



IBM

International Systems Centers

***ADVANCED COMMUNICATIONS FUNCTION
PRODUCTS INSTALLATION GUIDE***

IBM
World Trade
Systems
Center

Technical
Bulletin

ADVANCED COMMUNICATIONS FUNCTION
PRODUCTS INSTALLATION GUIDE

Authors:

Felix Lossio, IBM PERU
Harold Liberty, Project Advisor
Raleigh International Systems Center

GG24-1557-1
November 1983

The information contained in this document has not been submitted to any formal IBM test and is distributed on an 'As Is' basis without any warranty either expressed or implied. The use of this information or the implementation of any of these techniques is a customer responsibility and depends on the customer's ability to evaluate and integrate them into the customer's operational environment. While each item may have been reviewed by IBM for accuracy in a specific situation, there is no guarantee that the same or similar results will be obtained elsewhere. Customers attempting to adapt these techniques to their own environments do so at their own risk. The samples described in this material are presented for illustrative purposes only and are not intended to be implemented as described.

Any references made to an IBM licensed program in this document are not intended to state or imply that only IBM's licensed program may be used; any functionally equivalent program may be used instead.

It is possible that this material may contain reference to, or information about, IBM products (machines and programs), programming or services that are not announced in your country. Such references or information must not be construed to mean that IBM intends to announce such IBM products, programming or services in your country.

First Edition (November 1983)

Publications are not stocked at the address below. Requests for copies of IBM publications should be made to your IBM representative or to the IBM branch office serving your locality.

A form for reader's comments is provided at the back of this publication. If the form has been removed, comments may be addressed to:

Raleigh International Systems Center
IBM Corporation (986/B622-3)
P.O.Box 12195
Research Triangle Park, N.C. 27709, USA

IBM may use or distribute any of the information you supply without incurring any obligation to you. You may, of course, continue to use the information you supply.

(C) Copyright International Business Machines Corporation 1983

CONTENTS

Chapter 1: INTRODUCTION	1
Products Supported by This Document	1
Differences with the GG24-1557-0 Manual	3
Chapter 2: DEVELOPMENT ENVIRONMENT	5
Hardware Configuration	5
Software Resources	6
Chapter 3: GENERAL INFORMATION	7
ACF/VTAM and ACF/NCP Dependencies	7
ACF/VTAM and ACF/NCP Dependencies for MVS	7
ACF/VTAM and ACF/NCP Dependencies for DOS/VSE	8
Device Maxdata Values	8
Device Error Recovery	9
Installation Sequence	10
Chapter 4: ACF/VTAM SESSION PARAMETERS	13
USSTAB Operand	13
MODETAB Operand	14
DLOGMOD Operand	16
SSCPFM Operand	16
BNNSUP Operand	16
MODETAB EXAMPLES	17
MODETAB with COS Entries	17
Series/1, System/34 and 5280 MODEGS	18
S/36 and 5280 MODEGS	19
TAF MODETAB1	21
TAF MTLUTY2 Full-Screen Modetab	22
NJE MODENJE	22
RJE MODERJE	22
PARS MTAPPC	25
NCCF NCCFXDOM	26
NTO	26
POWER MTPNET	26
3277/3278 MT3270	26
3278/3287 MT3274A2	28
3278/3287 MT3274A3	29
3278 MT32762	30
3278 MT32763	30
3287/3289 MT3287	31
3650 MT3650	31
3767 MT3767	32
4700 MT4700	33
5520 MT5520	33
6580 MT6580	34
6670 MT6670	34
8100 MODEDPPX	35
8100 MTDPCX	39
8100 MTCXDPA	40
8100 MTCXPCA	41
8100 MTPC	42
USSTAB EXAMPLES	45
Series/1, System/34, 5280 USGS	45
3270 USSVSE	46
3270 US3270	50
3274/3276 SNA US3276	55
3767 US3767	60
3770 US3770	60
4700 US4700	63
Chapter 5: DOS/VSE INSTALLATION	65
DOS/VSE	65
I/O Device and IPL Procedure	65
ASI JCL Procedure	66
POWER/VS	71
POWER Version 2 Networking Definition	71
ACF/VTAM	72
ACF/VTAM Network Definitions JCL	72
ACF/VTAM Start Parameter Definition	73
ACF/VTAM Start Definition (Live System)	73
ACF/VTAM Start Parameter Definition	74

Network Configuration Definition	74
ACF/VTAM Application Parameter Example	74
ACF/VTAM CDNDT Major Node	75
ACF/VTAM CICS Major Node	75
ACF/VTAM CPRESET Major Node	75
ACF/VTAM JEP/POWER Major Node	76
ACF/VTAM NCCF Major Node	76
ACF/VTAM TAF Major Node	76
ACF/VTAM VCNA Major Node	77
ACF/VTAM PATH Major Node	77
ACF/VTAM LOCAL Major Node	77
ACF/VTAM LOCAL Major Node	78
ACF/VTAM CDRM Major Node	79
ACF/VTAM NCP Major Node	79
ACF/VTAM NCCF Major Node	79
ACF/VTAM REMOTE APPLS Major Node	80
ACF/VTAM REMOTE APPLS Major Node	80
ACF/VTAM REMOTE APPLS Major Node	80
ACF/VTAM REMOTE APPLS Major Node	81
COSTAB Installation JCL	81
USSTAB Installation JCL	81
MODETAB Examples	82
ACF/NCP	83
Example for Installing 3705 Initial Tests	83
ACF/NCP Stage 1 Generation JCL	83
ACF/NCP Stage 2 Generation JCL	84
ACF/NCP Stage 3 Generation JCL	85
Sample for Moving ACF/NCP Load Module	85
Sample JCL to Dump a 3705 and Print the Dump	86
Sample JCL to Print a 3705 Dump Taken by ACF/VTAM	86
Sample JCL to Dump a 3705 and Print the Dump Using VSAM (FBA Devices)	87
ACF JCL	88
ACF/VTAM Start Procedure	88
OCCF Start Procedure	90
NCCF/NPDA Start Procedure	92
VCNA Start Procedure	94
Sample JCL to Print an ACF/VTAM Trace Out of VTAM Partition	94
Sample Commands to Start and Print an ACF/VTAM Trace in the VTAM Partition	95
Initial Test with the IBMTEST Command	96
ACF/VTAM termination	97
Automatic System Initialization	98
CICS/VS	99
CICS/VS Definitions	99
CICS/VS Tables Definitions	99
DOS/VSE CICS/VS Sample JCL for Tables Catalog	100
ACF/VTAM and CICS/VS Terminals Definitions	100
Test of Your Customized CICS/VS Definitions	100
Logging off from CICS/VS	101
Chapter 6: MVS INSTALLATION	103
MVS	103
MVS Sys. Gen. Macros (Full)	103
MVS System Parameter Definitions	112
MVS JES2 Installation	117
MVS JES2 and NJE Parameter Definitions	117
ACF/VTAM	125
Start Parameter Definition	125
Start Parameter Definition (SA11)	126
Configuration Definition	126
Application Definition Examples	127
APP Application	127
CDN Application	128
CICS Application	128
DPCX Application	128
IMS Application	128
NCCF Application	129
NCCF Application	129
TAF Application	130
TSO Application	131
PATH Definitions	131
LOCAL Definitions	132
LOCAL Definitions	134
CDRM Definitions	135

CDRSC Definitions	135
CDRSC Definitions	135
CDRSC Definitions	135
CDRSC Definitions	136
CDRSC Definitions	136
CDRSC Definitions	136
CDRSC Definitions	136
SWITCHED Definitions	136
MVS COSTAB Installation JCL	137
MVS MODETAB Assembly	137
MVS USSTAB Installation JCL	137
ACF/NCP	139
NCP Definition Example	139
NCP Load Sample	140
Dump and Print ACF/NCP Sample	140
ACF JCL	141
MVS Example of Start Procedure for ACF/VTAM	141
MVS JCL for GTF Procedure and Parameters for ACF/VTAM Trace to Disk	142
MVS JCL for Printing ACF/VTAM Trace Records	143
MVS Starting and Stopping ACF/VTAM Trace Sample JCL (Alternate)	144
Chapter 7: ACF/NCP INSTALLATION	145
NCP for 3725	146
PCCU Specifications for ACF/VTAM DOS/VSE	147
PCCU Specifications for ACF/VTAM MVS	147
BUILD Specifications	148
BUILD Specification Exceptions for DOS/VSE	149
SYSCNTRL Options	149
HOST MACRO specifications	149
PUDRPOOL Specification for Dynamic Reconfiguration	150
LUDRPOOL Specification for Dynamic Reconfiguration	150
PATH TABLES	150
SDLCST STATEMENTS FOR CONFIGURABLE LINK STATIONS	151
BSC GROUP SPECIFICATION FOR BSC 3270'S LEASED LINE	151
BSC LINE MACRO SPECIFICATIONS FOR BSC 3270	152
BSC SERVICE MACRO SPECIFICATIONS REMOTE 3270	152
3270 CLUSTER AND TERMINAL MACRO FOR 3270 BSC	153
BSC LINE MACRO SPECIFICATIONS FOR BSC 3271	153
BSC SERVICE MACRO SPECIFICATIONS REMOTE 3270	154
3270 CLUSTER AND TERMINAL MACRO FOR 3270 BSC	154
NPA VIRTUAL GROUP FOR NPA	154
SDLC GROUP MACRO SPECIFICATIONS FOR SDLC LINES	155
SDLC LINE SPECIFICATION SDLC LINK 004	155
SDLC SERVICE SPECIFICATION FOR SDLC (LINE 004)	155
S/34 PU/LU SPECIFICATION FOR S/34	156
SDLC LINE SPECIFICATION SDLC LINK 005	156
SDLC SERVICE SPECIFICATION FOR SDLC (LINE 005)	157
3276 PU/LU SPECIFICATIONS FOR PU3276	157
SDLC LINE SPECIFICATION SDLC LINK 006	157
SDLC SERVICE SPECIFICATION FOR SDLC (LINE 6)	158
8100 PU MACRO SPECIFICATION FOR 8100	158
8100 LOGICAL UNIT SPECIFICATIONS FOR 8100	159
8100 PU MACRO SPECIFICATION FOR 8100	159
8100 LOGICAL UNIT SPECIFICATIONS FOR 8100	160
SDLC LINE SPECIFICATION SDLC LINK 010	161
SDLC SERVICE SPECIFICATION FOR SDLC (LINE 010)	161
3276 PU/LU SPECIFICATIONS FOR PU3276	161
SDLC LINE SPECIFICATION SDLC LINK 011	162
SDLC SERVICE SPECIFICATION FOR SDLC (LINE 011)	162
S/34 PU/LU SPECIFICATION FOR S/34	163
SDLC LINE SPECIFICATION SDLC LINK 012	163
SDLC SERVICE SPECIFICATION FOR SDLC (LINE 12)	164
6670 CLUSTER Macro Specification	164
4700 PU MACRO SPECIFICATION FOR 4700	164
SDLC GROUP SPECIFICATIONS FOR SDLC LOCAL TO LOCAL LINKS	165
SDLC SPECIFICATION FOR LINE 36 LOCAL TO LOCAL LINK	165
3705 PU SPECIFICATION FOR THE ADJACENT 3705 SA14	165
SDLC SPECIFICATION FOR LINE 37 LOCAL TO LOCAL LINK	166
3705 PU SPECIFICATION FOR THE ADJACENT 3705 SA05	166
SDLC SPECIFICATION FOR LINE 38 LOCAL TO LOCAL LINK	166
3705 PU SPECIFICATION FOR an ADJACENT 3705 (ANY)	167
SDLC SPECIFICATION FOR LINE 39 LOCAL TO LOCAL LINK	167
3705 PU SPECIFICATION FOR an ADJACENT 3705 (ANY)	167
SDLC SPECIFICATION FOR LINE 64 LOCAL TO LOCAL LINK	168

3705	PU SPECIFICATION FOR THE ADJACENT 3705 SA04	168
SDLC	SPECIFICATION FOR LINE 68 LOCAL TO LOCAL LINK	168
3705	PU SPECIFICATION FOR THE ADJACENT 3705 SA05	169
SDLC	SPECIFICATION FOR LINE 80 LOCAL TO LOCAL LINK	169
3705	PU SPECIFICATION FOR THE ADJACENT 3705 SA24	169
SDLC	SPECIFICATION FOR LINE 84 LOCAL TO LOCAL LINK	170
3705	PU SPECIFICATION FOR THE ADJACENT 3705 SA14	170
NCP for 3705		171
PCCU	Specifications for ACF/VTAM	171
BUILD	Specifications	172
SYSCNTRL	Options	172
HOST	MACRO SPECIFICATIONS	173
PUDRPOOL	Specification for Dynamic Reconfiguration	173
PATH	TABLES	173
SDLCST	STATEMENTS FOR CONFIGURABLE LINK STATIONS	174
BSC	GROUP SPECIFICATION FOR BSC 3270s LEASED LINE	174
BSC	LINE MACRO FOR BSC 3270 (LINE 023)	175
BSC	SERVICE MACRO SPECIFICATIONS REMOTE 3270	175
3270	CLUSTER AND TERMINAL MACRO FOR 3270 BSC	176
3270	CLUSTER AND TERMINAL MACRO FOR 3270 BSC	177
NPA	VIRTUAL GROUP FOR NPA	177
SDLC	GROUP SPECIFICATIONS FOR SDLC LOCAL/LOCAL LINKS	178
SDLC	SPECIFICATION FOR LINE 24 LOCAL TO LOCAL LINK	178
3705	PU SPECIFICATION FOR THE ADJACENT 3705 SA13	178
SDLC	SPECIFICATION FOR LINE 2C/2E LOCAL TO LOCAL LINK	179
37X5	PU SPECIFICATION FOR THE ADJACENT 37X5 (ANY)	179
SDLC	SPECIFICATION FOR LINE A8/A9 LOCAL TO LOCAL LINK	179
3725	PU SPECIFICATION FOR an ADJACENT 3725 SA13	180
SDLC	GROUP MACRO SPECIFICATIONS FOR SDLC LINES	180
SDLC	LINE SPECIFICATION SDLC LINK 020	180
SDLC	SERVICE SPECIFICATION FOR SDLC (LINE 020)	180
8100	PU MACRO SPECIFICATION FOR 8100	181
8100	LOGICAL UNIT SPECIFICATIONS FOR 8100	181
8100	PU MACRO SPECIFICATION FOR 8100	182
8100	LOGICAL UNIT SPECIFICATIONS FOR 8100	182
3276	PU/LU SPECIFICATIONS FOR PU3276	183
6670	CLUSTER Macro Specification	184
4700	PU MACRO SPECIFICATION FOR 4700	184
SDLC	LINE SPECIFICATION SDLC LINK 0A0	185
SDLC	SERVICE SPECIFICATION FOR SDLC (LINE 0A0)	185
3276	PU/LU SPECIFICATIONS FOR PU3276	185
3274	PU/LU SPECIFICATIONS FOR PU3274	186
SDLC	LINE SPECIFICATION SDLC LINK 0A7	187
SDLC	SERVICE SPECIFICATION FOR SDLC (LINE 0A7)	187
8100	PU MACRO SPECIFICATION FOR 8100	187
8100	LOGICAL UNIT SPECIFICATIONS FOR 8100	188
3600	PU MACRO SPECIFICATION FOR 3600	188
6670	CLUSTER Macro Specification	188
SDLC	GROUP MACRO SPECIFICATIONS FOR SDLC LINES	189
SDLC	LINE SPECIFICATION SDLC LINK 022	189
SDLC	SERVICE SPECIFICATION FOR SDLC (LINE 22)	189
8100	PU MACRO SPECIFICATION FOR 8100	189
8100	LOGICAL UNIT SPECIFICATIONS FOR 8100	190
6580	PU & LU MACRO FOR DISPLAYWRITER (6580)	191
8815	PU & LU MACRO SPECIFICATIONS FOR SCANMASTER	191
3275	PU & LU MACRO SPECIFICATIONS FOR 3275 MOD 12	192
3276	PU/LU MACRO SPECIFICATION FOR 3276	192
8815	PU & LU MACRO SPECIFICATIONS FOR SCANMASTER	193
SWITCHED	SPECIFICATIONS FOR SWITCHED LINES	193
NCP MISCELLANEOUS		194
ICA	SPECIFICATION FOR LOCAL TO LOCAL LINK (4331)	194
ICA	PU SPECIFICATION FOR an ADJACENT ICA-4331	194
3767	PU/LU SPECIFICATIONS FOR 3767	194
3775	PU/LU SPECIFICATIONS FOR 3775	194
3650	PU/LU SPECIFICATIONS FOR 3650	195
ACF/VTAM	Tuning Considerations	196
ACF/NCP	Tuning Considerations	196
Introduction		196
SDLC	lines	196
BSC	lines	196
SDLC	lines	198
ADDRESS		198
BATCH		198
BFRS		198
DATMODE		199

DSABLTO	199
DUPLEX	200
ENABLTO	200
HDXSP	200
IRETRY	201
MAXOUT	201
ORDER	201
PASSLIM	201
PAUSE	202
RETRIES	202
SERVLIM	202
TRANSFR	203
BSC lines	204
CUTOFF	204
NEGPOLP	204
PAUSE	204
POLIMIT	205
SERVLIM	205
SERVPRI	205
SESSION	205
XMITLIM	205
Chapter 8: DYNAMIC RECONFIGURATION (DR)	207
Introduction	207
ACF/VTAM Dynamic Reconfiguration	207
VBUILD Statement	208
ADD Statement	208
DELETE Statement	208
ACF/NCP Dynamic Reconfiguration	209
NCP Dynamic Reconfiguration Overview	209
NCP Dynamic Reconfiguration Coding Reference	210
NCP Dynamic Reconfiguration Recommended Coding	213
ACF/NCP/VS Release 3	214
ACF/NCP/VS Version 2	214
Dynamic Reconfiguration Summary	215
DYNAMIC RECONFIGURATION EXAMPLES	215
DELETE and ADD 3274	215
DELETE and ADD 3276	215
DELETE and ADD 5520	216
DELETE and ADD 8100	216
ACF/VTAM Dynamic Reconfiguration Command	216
Chapter 9: SWITCHED SNA DEFINITIONS	217
LINE GROUP Specifications - Switched	219
DPCX Switched Definition	219
NTO Switched Definition	221
PC Switched Definition	222
S/1 Switched Definition	223
S/34 Switched Definition	224
3276 Switched Definition	226
3650 Switched Definition	227
4700 Switched Definition	228
5520 Switched Definition	229
6580 Switched Definition	230
8100 Switched Definition	230
8815 Switched Definition	231
Chapter 10: LOCAL DEVICE DEFINITIONS	233
UNITSZ Considerations with 3274-1A	233
Local 3270 Definition (SNA) - 3274 Model 1A	235
Local 3270 Definition (SNA) - 3274 Model 1A(COLOR)	236
Local 3270 Terminal Definition (Non-SNA)	236
Chapter 11: CHANNEL TO CHANNEL DEFINITIONS	237
Vbuild definition	237
CTCA for SA11	237
CTCA for SA01	237
PATH Definition	237
PATH SA11 Definition(D11PATH)	237
PATH SA01 Definition(D01PATH)	238
MVS Definition	238
Chapter 12: MSNF NETWORK DEFINITIONS	239
ACF/VTAM Startup Configuration Definition	240
Subarea 10 (ATCCON10)	240

Subarea 11 (ATCCON11)	240
Subarea 12 (ATCCON12)	240
CDRM Definitions	240
CDRM for Network (M00)	240
PATH Definitions	240
D10PATH (MVS System Subarea 10)	240
D11PATH (MVS System Subarea 11)	241
D12PATH (VSE System Subarea 12)	241
CDRSC Definitions	241
CDRSCs for Subarea 10	241
R11ANCF	241
R11APP	242
R11ATSO	242
CDRSCs for Subarea 11	242
R10ANCF	242
R10APP	242
R10ATSO	243
R12ACICS	243
R12AJEP	243
R12ANCF	243
R12APP	243
R12CDN	244
CDRSCs for Subarea 12	244
R10ACICS	244
R10ANCF	244
R10APP	244
R10ATSO	244
R11ANCF	244
R11APP	244
R11ATSO	245
Chapter 13: NCCF INSTALLATION	247
Documentation	247
Installation Pre-Planning	247
Installation Steps	248
Operational Considerations	249
Installation Considerations for SPECIFIC Profiles	251
Considerations for Installing User CLISTS	251
Adding Operators to an Existing System	252
NCCF Installation Examples	252
DSIOPF Example	253
Examples of Profiles Pointed to by PROFILEN of DSIOPF	254
DSISPN Example	255
DSIDMN Example	255
DSICMD Example	256
DSILOGBK Example	264
User Command List (CLISTS) Examples	264
ACT CLIST to Vary Active a Resource	264
BFRS CLIST to Display Buffers	265
BFRUSE CLIST to Display Buffers	265
CLSTRS CLIST to Display Clusters	265
DROUTE CLIST to Display Explicit and Virtual Routes	266
INACT CLIST to Deactivate Resources	267
HELPBFRU CLIST	268
IST077I CLIST to Edit a VTAM Message	268
IST097I CLIST to Suppress a VTAM Message	268
IST679A CLIST to Dial Out Message	269
TUCLIBFR CLIST	269
NCCF APPL Statements	270
USS Table	270
MODE Table Entry	270
Example for Definition of VSAM Datasets	271
Allocation of NCCF LOG Dataset(s)	271
NCCF Start Procedure	272
Procedure for Printing Disk Log	272
NCCF-NCCF Cross Domain Session Examples	273
MODETAB	273
APPL	273
CDRSC	273
NCCF Flow	273
Chapter 14: NPDA INSTALLATION	277
Documentation	277
NPDA Programming Considerations	277
MVS Installation Samples	277

NPDA Database	277
NPDA Data Base Allocation	278
NCCF Requirements for NPDA	279
DSICMD	279
BNJZVTBL	281
DSIDMN	281
BNJMBDST	282
APPL	283
ISTMGC00 Access Method Interface	284
NCCF Clists for NPDA	284
IC11	284
NPDAINT NCCF Execute NPDA Timer Reset	285
NPDASRF	285
SWNPDA NCCF Switch log Clist	286
MONRESET	286
MONITOR	286
NPDA Start Procedure	286
Sample to Save the NPDA Primary Log File	287
Sample to Restore the NPDA Primary Log File	287
VSE Installation Samples	288
NPDA Database	288
NPDA Database Allocation	289
NCCF Requirements for NPDA	290
DSICMD	290
BNJZVTBL	291
DSIDMN	291
BNJMBDST	292
APPL	293
ISTMGC00 Access Method Interface	294
NCCF Clists for NPDA	294
IC12	294
NPDA Start Procedure	295
Sample to Repro the NPDA Primary Log File	295
Sample to Restore the NPDA Primary Log File	296
Chapter 15: TARA INSTALLATION	297
TARA Documentation	297
Sample for Creating NPDA Log Files	297
NCCF Requirements for TARA	298
Member DSIDMN	298
Member BNJ36DST - Data Services Task Definition	298
ISTMGC - The CNM Routing CSECT	299
NPDA VERB Table for NPDA V3	299
APPL Definition Statements for NCCF/NPDA	300
Member DSICMD (Partial Listing)	300
Sample Procedure for NPDA/TARA	301
Sample to REPRO the TARA Primary Log File	301
Chapter 16: NLDM INSTALLATION	303
NLDM Documentation	303
Programming Requirements	303
Installation Requirements	303
Creating NLDM Data Base	304
NCCF Requirements for NLDM	306
DSIDMN (With NPDA)	306
DSIDMN (Without NPDA)	307
NLDMBDST - Data Services Task Definition	307
AAUPRMLP - Data Services Task Definition	308
DSIPRMLU - Data Services Task Definition	308
DSICMD	308
NCCF Considerations	309
ISTMGC - The CNM Routing CSECT	311
APPL Definition Statements for NCCF/NPDA	312
Sample Procedure for NPDA/NLDM	312
Sample to REPRO the NLDM Primary Log File	313
Sample Procedure for Changing ISTRACON	313
Chapter 17: SNA APPLICATION INTERFACES	315
CICS/VS R1.6 Program Control Table (DFHPCT)	315
CICS/VS R1.6 Processing Program Table (DFHPPT)	317
CICS/VS R1.6 Terminal Control Table (DFHTCT)	318
INITIAL	318
MVS System Console as Terminal	318
VSE System Console as Terminal	318
VTAM Local Terminals SNA	319

VTAM Local Terminals NON-SNA	319
VTAM Remote 3276(SDLC)	319
VTAM Remote 3277(BSC)	319
VTAM Remote 5520	319
VTAM Remote NTO	320
VTAM Remote S/1	320
VTAM Remote TAF	320
DPPX LU-0 APPL-APPL	321
CROSS DOMAIN (to local terms on different host)	321
CROSS DOMAIN (to remotes on different host)	321
INTERSYSTEM COMMUNICATION Parallel Session	321
INTERSYSTEM for DIF Product	323
CICS for DIF Product	323
IMS/VS Nucleus Generation	324
IMSCTRL MACRO	324
IMSCTF MACRO	324
SPAREA MACRO	324
BUFPOOLS MACRO	325
MSGQUEUE MACRO	325
DL/I DATABASE	325
APPLS and TXs	326
VTAM NETWORK DEFINITION	328
LOCAL 3277	328
3286	328
Remote 3767	329
TAF SLUTYPE1	329
Remote 3277	329
3274-1A SNA (Channel attached)	329
3276 SDLC	330
NCCF/TAF	330
DPPX/3270 Compatibility	330
SLU for DPPX	331
SLUTYPE1 for SERIES 1	331
3279 Simulated IN SERIES 1(SLU2)	331
LU TYPE 6 NODE	332
VTAM SUBPOOL	332
IMSGEN Macro	333
Chapter 18: TAF INSTALLATION	335
Documentation	335
TAF Installation Examples	335
DSICMD Example	335
User Command List (CLISTS) Examples	337
BGTAFL CLIST	337
LOGON CLIST	338
LTAF CLIST for TAF Logon	339
RTAF CLIST	339
STAF CLIST	340
STOPTAF CLIST	340
APPL Statements	341
MODETAB1 LU-1 Mode Table Entry	341
MTLUTY2 LU-2 Mode Table Entry	341
CICS Definitions	341
Chapter 19: NTO INSTALLATION	343
NTO Considerations	343
NCP Generation	344
NTO Macro Definitions	347
ACF/VTAM Switched Major Node Definitions	348
CICS Definitions	348
Chapter 20: VCNA INSTALLATION	349
General Considerations	349
VM Definitions	349
VTAM Definitions	349
APPL Definitions	350
MODETAB Definitions	350
USSTAB Definitions	350
VCNA Definitions	350
DTIGEN Definitions	350
VSE Definitions	351
SUPVR Definitions	351
VCNA Start JCL	351
VCNA Connections	351
VCNA LOGON	352

VCNA LOGOFF	352
Appendix A: NAMING CONVENTIONS	353
Appendix B: BIBLIOGRAPHY	357
ACF/VTAM	357
ACF/NCP	358
CICS/VS	358
NCCF	359
NLDM	359
NPDA	359
NTO	359
POWER II	359
TARA	360
VM/VCNA	360
Installation Support	360
Network Management	361
Problem Determination	362
Index	363

CHAPTER 1: INTRODUCTION

The purpose of this guide is to provide information that may help in installing SNA products on either a DOS/VSE or OS/VS operating system using MVS. This document provides samples which are coded to a specific network configuration and terminal hardware. The samples included in this document are included only as a guide and should be updated for a specific installation.

The samples in this guide will support the following products: IMS/VS, CICS/VS, TSO, JES2(MVS), ACF/VTAM, ACF/NCP/VS, NCCF, NPDA, VSE, POWER, VCNA, and VSE/OCCF. While ACF/TCAM is not supported with samples, most of the information in this manual can be applied to ACF/TCAM systems. Unless otherwise directed by the specific product guides, these coding samples are recommended for initial system checkout. Every attempt has been made to provide coding samples that are compatible with all of the IBM products that support SNA.

The samples are not intended to be implemented as they are shown in this material. These samples are coded to a specific network configuration and terminal features and are not compatible with any other installation configuration or processing requirements.

The majority of MVS samples has been included in the NMPF distribution library.

A complementary guide to this publication is the World Trade Systems Centers document Advanced Communications Function - Primer (GG24-1547).

If using VSE and the IBM 3705-80, additional assistance can be obtained from the World Trade Systems Centers document Small Communications Systems Installation Primer VSE System IPO/E & IBM 3705-80 (GG24-1552).

For information on installing ACF/VTAME on an IBM 4331 processor see World Trade Systems Centers document Small Communications Systems Installation Primer IBM 4331/ACF/VTAME (GG24-1519).

For information on installing ACF/VTAM on an IBM 4331 processor see World Trade Systems Centers document Small Communications Systems Installation Primer IBM 4331/ACF/VTAM Version 2 (GG24-1573).

Appendix B. contains a list of other publications and documents that is related to installation support, network management, and problem determination.

PRODUCTS SUPPORTED BY THIS DOCUMENT

Advanced Communications Function for the Virtual Telecommunications Access Method (ACF/VTAM).

Advanced Communications Function for the Network Control Program/Virtual Storage (ACF/NCP/VS).

Virtual Storage Access Method (VSAM).

Customer Information Control System/Virtual Storage (CICS/VS).

Information Management System/Virtual Storage (IMS/VS).

Network Communications Control Facility (NCCF).

Network Problem Determination Application (NPDA).

Network Logical Data Manager (NLDM).

Network Terminal Operation (NTO).

Operation Communication Control Facility (OCCF).
Virtual Communication Network Application (VCNA).
Disk Operating System/Virtual Storage Extended (DOS/VSE).
Power Version 2 Networking (PNET).
Operating System/Virtual Storage 2 (OS/VS2/MVS).
Multiple Virtual Storage (MVS).
Time Sharing Option (TSO).
Job Entry Subsystem 2 (JES2).
Network Job Entry (NJE).
3270 Information Display System (3270).
3600 Finance Communication System (3600).
3650 Retail Store System (3650).
3705 Communications Controller (3705).
3725 Communications Controller (3725).
3767 Communication Terminal (3767).
3770 Data Communication System (3770).
4700 Finance Communication System (4700).
5280 Distributed Data System (5280).
5520 Administrative System (5520).
6580 Displaywriter (6580).
6670 Copier (6670).
8100 Information System (8100).
8815 Scanmaster (8815).
Personal Computer (PC).
Series/1 (S/1).
System/34 (S/34).
System/36 (S/36).

DIFFERENCES WITH THE GG24-1557-0 MANUAL.

Some differences are listed below:

New NCP Performance Considerations subject have been included.

CICS/VS hints have been included in the VSE chapter.

POWER II PNET

CICS/VS 1.6

NPDA Version 3

NPDA VSE samples have been included in the NPDA chapter.

PCT and PPT samples have been included in the APPLICATION INTERFACE chapter.

TAF Chapter has been included.

NT0 Chapter has been included.

VCNA Chapter has been included.

VCNA.

ACF/NCP Version 2.

3725.

Definitions have been included for the following devices:

PC

4700

5520

6580

6670

8815

Reader's comment forms suggestions have been taken into consideration and are included in some chapters.

Procedures for installing NPDA under VSE have been included in the NPDA Chapter.

HARDWARE CONFIGURATION

To test the samples in this publication, the following hardware was used:

The Central processor used was a System/370 model 3032 with 8 megabytes of storage. Most of the validation of the samples was executed under VM/370. One 3705 with 512KB and one 3725 with 768KB communications controllers were used.

SOFTWARE RESOURCES

PROGRAMS INSTALLED

ACF/VTAM Version 2	(Program Number 5665-280)
ACF/NCP Version 2	(Program Number 5735-XX9)
	(Program Number 5735-XXA)
DOS/VSE Release 3	
Disk Operating System/VSE	(Program Number 5745-020)
OS/VS	
OS/VS2 Release 3.8	(Program Number 5752-VS2)
NCCF Release 2	
Network Communications Control Facility	(Program Number 5735-XX6)
NPDA Version 3	
Network Problem Determination Application	(Program Number 5668-920 MVS)
	(Program Number 5666-295 VSE)
NLDM Version 1	
Network Logical Data Manager	(Program Number 5668-971)
IMS/VS	
IMS/VS R1.2	(Program Number 5740-XX2)
CICS/VS	
CICS/VS V1 R6.0	(Program Number 5740-XX1)
JES2(MVS/SP)	
JES2	(Program Number 5740-XXS)
NT0 (MVS/SP)	
NT0 Release 2	(Program Number 5735-XX7)

ACF/VTAM AND ACF/NCP DEPENDENCIES

The following tables show the dependencies between certain values specified in the NCP and those specified for VTAM. Failure to insure agreement between these parameters can lead to initial difficulties in bringing up the system.

ACF/VTAM AND ACF/NCP DEPENDENCIES FOR MVS

OS/VS ACF/VTAM	ACF/VTAM Default	ACF/NCP	ACF/NCP Default	Remarks
		PCCU macro MAXDATA		Note (1)
ATCSTRxx MAXSUBA	15	BUILD macro MAXSUBA TRANSFR BFRS	Required	Note (2) Note (1) Notes (1) (8)
IOBUF number MVS VS1	51 8	HOST macro MAXBFRU UNITSZ	Required Required	Notes (3) (5) Notes (3) (4)
size	64	BFRPAD STATMOD	28 YES	Note (6) YES is required by ACF/VTAM
HOSTSA	1	SUBAREA	1	Note (7)

Notes:

- (1) MAXDATA must be less than the product of TRANSFR and BFRS. NCP cannot send a PIU to the HOST which is longer than the product of TRANSFR and BFRS.
- (2) If MAXSUBA in ATCSTRxx and MAXSUBA in the BUILD macro do not agree you will not be able to activate the NCP.
- (3) MAXBFRU x UNITSZ must be greater than the largest PIU which can flow in or out of the NCP. This number can be quite large if you are using 3278s with large screens or NJE in a multidomain system.
- (4) IOBUF must equal the value specified for UNITSZ in the NCP. If you have a 3274-1A (local SNA controller) installed, then UNITSZ and IOBUF minimum size is 80.
- (5) The difference between SLOWPT and XPANPT must be greater than the largest MAXBFRU value defined in any NCP or local cluster.
- (6) BFRPAD must be specified as 0 for ACF/VTAM. The default of 28 is for compatibility with prior releases of the access methods.
- (7) If you specify a number other than 1 for either HOSTSA or SUBAREA, the other MUST be specified.
- (8) BFRS parameter's recommended value is 128.

ACF/VTAM AND ACF/NCP DEPENDENCIES FOR DOS/VSE

DOS/VSE ACF/VTAM	ACF/VTAM Default	ACF/NCP	ACF/NCP Default	Remarks
		PCCU macro MAXDATA		Note (1)
ATCSTRxx MAXSUBA	15	BUILD macro MAXSUBA TRANSFER BFRS	Required	Note (2) Note (1) Note (1)
LFBUF number size	8 64	HOST macro MAXBFRU UNITSZ	Required Required	Notes (3) (5) Notes (3) (4)
		BFRPAD STATMOD	28 YES	Note (6) YES is required by ACF/VTAM
HOSTSA	1	SUBAREA	1	Note (7)

Notes:

- (1) MAXDATA must be less than the product of TRANSFR and BFRS. NCP cannot send a PIU to the HOST which is longer than the product of TRANSFR and BFRS.
- (2) If MAXSUBA in ATCSTRxx and MAXSUBA in the BUILD macro do not agree you will not be able to activate the NCP.
- (3) MAXBFRU x UNITSZ must be greater than the largest PIU which can flow in or out of the NCP. This number can be quite large if you are using 3278s with large screens or NJE in a multidomain system.
- (4) LFBUF must equal the value specified for UNITSZ in the NCP. If you have a 3274-1A (local SNA controller) installed, then UNITSZ and LFBUF minimum size is 80.
- (5) The difference between SLOWPT and XPANPT must be greater than the largest MAXBFRU value defined in any NCP or local cluster.
- (6) BFRPAD must be specified as 0 for ACF/VTAM. The default of 28 is for compatibility with prior releases of the access methods.
- (7) If you specify a number other than 1 for either HOSTSA or SUBAREA, the other MUST be specified.

DEVICE MAXDATA VALUES

The following table specifies the MAXDATA value (PU macro) for various SNA physical units operating on an SDLC link. The MAXDATA operand must not be defaulted.

<u>DEVICE</u>	<u>VALUE = BYTES</u>
IBM 3271/3275	261 - Maximum Value, Segmentation allowed. (PU.T1)
IBM 3274/3276	265 - Maximum Value, Segmentation allowed. (PU.T2)
	NOTE: For a 3276 connected to a 4331 via the Communications Adapter code MAXDATA=262, a value of 265 will not work.
IBM 3600	VARIABLE - Function of buffer size defined in CPGEN(3600).
IBM 3614	265 - If not connected to a 360X Controller.
IBM 3650	265 - Required value, segmentation not allowed.
IBM 3767	261 - Required value, segmentation not allowed.
IBM 3774/3775	265 - Required value, segmentation not allowed.
IBM 3776/3777	265/521 - Required value, segmentation not allowed. Host application must support same value. The NCP can be generated with 521 and the actual value specified in the Bind for the application to LU session.
IBM 3790	265 - Required value, segmentation not allowed for 'Batch' sessions. Segmentation allowed for Data Stream Compatibility (DSC) LUs.
IBM 8100 (DPCX)	265 - Required value, segmentation not allowed for 'Batch' sessions. Segmentation allowed for Data Stream Compatibility (DSC) LUs.
IBM 8100 (DPPX)	265 - Specified by ENVIRONMENT definition. 265 is max permissible value segmentation is supported.
IBM Series/1	265 - Maximum amount of data for a Series/1. Series/1 accepts request/response units that have been segmented by NCP. Series/1 does not segment request/response units.

DEVICE ERROR RECOVERY

The following table lists the recommended values for the RETRIES operand in the NCP 'LINE' and 'PU' macros.

,RETRIES = (m,t,n)
 where m = immediate retries,
 t = pause between retries,
 n = retry cycles.

The time for a retries cycle is given by the formula:

Retry Cycle Time = (((m X r) + t) X n) + (m X r)
 where r is the value coded for REPLYTO. The number of retries will be one more than the value specified for "n".

As an example, for SDLC, if REPLYTO = 1, and RETRIES=(5,10,3) then the time required to complete a cycle is:

Retry Cycle Time = (((m X r) + t) X n) + (m X r)

$$= (((5 \times 1) + 10) \times 3) + (5 \times 1)$$

$$= 50 \text{ Seconds}$$

<u>DEVICE</u>	<u>RECOVERY SEQUENCE REQUIREMENT</u>
IBM 3271/3275	- Use 60 seconds to start, then adjust for link quality
IBM 3274/3276	- Same as IBM 3271/3275
IBM 3600	- Function of 3600 CPGEN, value must be less than 3600 generated time.
IBM 3650	- Must be greater than 50 and less than 60 seconds.
IBM 3767	- Must be greater than 20 seconds.
IBM 3770	- Same as IBM 3271/3275
IBM 3790	- Same as IBM 3271/3275
IBM DPCX	- Same as IBM 3271/3275
IBM DPPX	- Same as IBM 3271/3275
IBM Series/1	- Same as IBM 3271/3275
IBM 3705	- Value on primary end must be greater than secondary end.
IBM 4331	- Value on primary end must be greater than secondary end.

INSTALLATION SEQUENCE

This installation sequence is only a guide and many steps have been omitted.

OBTAIN MANUALS.

Order all manuals necessary for the appropriate operating system.

ORDER PROGRAMS

All the programs should be obtained from PID. Be sure you order both the Program Product code and the SCP code for ACF/VTAM and ACF/NCP/VS. There are two separate order numbers.

SYSTEM INSTALLATION

Determine the hardware configuration required for the system. The system design has to be approached from multiple levels. Consider the following:

* PHYSICAL CONFIGURATION

It is necessary to plan the hardware configuration in order to generate the NCP load module, the local 3277 definition for VTAM, and the I/O assignments for the system generation phase.

* OPERATING SYSTEM

The operating system will only be concerned with the devices locally attached to the system. When generating the operating system, special consideration must be given for the ACF/VTAM parameters, including the size of the partitions for DOS/VSE.

The following steps should allow the user to bring up the system and allow operation at various checkpoints.

1. SYSTEM DEFINITION

The samples in this document can be used provided the network is similar to the samples. Care should be taken in the specification of LFBUF(DOS/VSE) and IOBUF(OS/VS) to insure that the values for UNITSZ and MAXBFRU defined in the NCP are used to calculate the buffer values. The quantity of LFBUF or IOBUF must exceed the requirement for MAXBFRU. The MAXSUBA value in the start definition must agree with the NCP value. All SUBAREA values should be checked to ensure each major node has an exclusive value.

Note: If using DOS/VSE, all dynamic buffering is generated from the VFBUF and VPBUF specifications. There is no expansion of these two specifications.

Note: If you have a 3274-1A (Local SNA) control unit installed, then see Chapter 10 "LOCAL DEVICE DEFINITIONS".

2. START CONFIGURATION

If local 3277s are available, the initial configuration should only include the local 3277s and the application definition node. After these two nodes are active, the NCP portion of the system can be checked. If VTAM indicates an error in the node definition, it may not be necessary to stop VTAM. If the node did not become active, the node definition can be updated, and varied active by the console operator. If the node was activated by VTAM, the node must be varied inactive.

3. LOCAL 3270 DEFINITION (NON-SNA)

For the first testing phase, the local definition should not include a LOGAPPL statement. If VTAM was previously installed, remove the LOGTAB operand since it is no longer needed. All unavailable 3277s or 328Xs should be defined with an ISTATUS=INACTIVE. Only one 3277 is required to check ACF/VTAM initialization and that a VTAM user application works.

GENERAL HINTS

NRZI defaults to "yes" on an SDLC line. Normally, NRZI can be used with most modems. IBM integrated modems and the IBM 3872 require NRZI=YES. When in doubt, specify NRZI=NO, and monitor MDR recordings for line errors and change if required. The use of NPDA to monitor the link is preferred and allows the use of 'Intensive Mode Recording' (IMR) to help isolate a problem. All SDLC PU types 1 and 2 will work without NRZI. However, because data to certain types of PUs may contain a long string of repetitive characters, NRZI is usually recommended for the IBM 3600, IBM 3790, and IBM 8100 controllers.

To help determine an error condition, the use of line trace on the failing line should be considered. Also, before varying a cluster active, start the IO trace for the NCP and the cluster.

GENERAL OPERATING CONSIDERATIONS

Information from "RETAIN" should always be obtained before installing any of the products described in this guide. There are problems described in "RETAIN" that can be bypassed by controlling operating procedures. Installation hints and problems may also be found in the Information/MVS data base if installed on the user's system.

Automatic Network Shutdown (ANS) must be specified as 'YES'. AUTOIPL=YES and AUTODUMP=YES is required for automatic NCP error recovery. If No is specified, operator action is required and the recovery sequence requires more system resources. If the 3705 does not contain the desired NCP load module and VFYLM=YES was coded on the PCCU macro then ACF/VTAM will ask the operator to verify the load module name. Otherwise the NCP will be loaded with the new load module. The default is VFYLM=NO.

If you attempt to activate an NCP that is already active, VTAM will try to activate all elements of the network defined to VTAM. This can cause a

considerable slowdown as the NCP tries to activate terminals, clusters, etc., that may not be operational. It is recommended that you define to ACF/VTAM only those resources that are physically available. You can prevent this from happening by coding ISTATUS=INACTIVE on those resources not physically present. A resource coded ISTATUS=INACTIVE will not be activated when its superior resource is activated a second time. If you code ISTATUS=COMP (the default) then the activation works the same as it did in prior releases of VTAM (i.e., all nodes contained within the node being activated will be activated by VTAM; the ISTATUS value is ignored the second time through).

If you attempt to activate an already loaded NCP and the HOSTSA value in VTAM does not agree with the SUBAREA operand coded on the HOST macro, then VTAM and the NCP will hang. The Activate Physical (ACTPU) command contains an Origin Address Field (OAF) which the NCP does not recognize. Therefore, NCP cannot send a response and ACF/VTAM is left waiting for a response which will never come. If SUBAREA on a HOST macro in the old NCP does not contain the SUBAREA of ACF/VTAM which is now trying to load it, then the IPL key must be pressed on the 3705 or must be loaded by the NCP loader utility.

An application programmer should expect one character messages from 3270s and test for "CLEAR", "PA", and "PF" keys.

When using the 3600, it must respond to the 'CLEAR' and the 'UNBIND' in order to terminate a session. An application program running under DOS/VSE ACF/VTAM should not be cancelled until a response is returned to VTAM. Always specify the time-out value in the 3600 CPGEN as greater than the total retry time of the NCP.

ACF/VTAM will not terminate until all applications have closed their ACB(s) and all pending I/O has completed. This may require the operator to use the V NET, FORCE, INACT or the V NET, TERM commands in order to terminate the session so the network may be brought down.

CHAPTER 4: ACF/VTAM SESSION PARAMETERS

The examples throughout the guide indicate the use of certain parameters which assist in getting sessions correctly established. In this section we will discuss the use of six of them.

- USSTAB - Contains the valid input commands for logging on.
- MODETAB - Contains one or more entries for a class of devices.
- COSTAB - Contains entries defining virtual routes to be used.
- DLOGMOD - Specifies default entry name within a MODETAB.
- SSCPFM - Specifies type of SNA logon command allowed.
- BNNSUPP - This NCP parameter tells NCP the device is an SDLC 3270 (i.e, 3271/3275 Model 11 or 12).

The first five parameters are VTAM-only parameters, the last is an NCP parameter. The MODETAB, USSTAB, and COSTAB examples include support for most applications. They should be modified to support only the applications required by the user. In all the samples used in the guide the IBM default tables are not used.

USSTAB OPERAND

The USSTAB operand, although not required, should be coded for all logical units where the operator can key in a command to start a session. If you do not code the USSTAB operand, the IBM default table ISTINCDT (MVS and DOS/VSE) is used. The default table only allows the operator to enter the following commands:

```
LOGON applid( ) logmode( ) data ( )
LOGOFF
IBMTEST
```

The data for the logmode parameter is the NAME of an ENTRY in a Mode table. Mode tables are discussed later. By coding their own USSTAB, operators may key in such commands as:

```
CICS
TSO
IMS
NCCF
```

If you are going to define your own USS tables then you must have a separate table for each device class. For example, in this guide we have defined one for non-SNA 3270s, one for SNA 3270s, one for 3767s and one for 3770s.

One of the advantages of a USS table is you can define defaults for operator logons. This can help isolate the operator from having to remember complex logon commands. (See the NCCF note in the DLOGMOD section for additional comments.)

When you code a USSTAB you may also choose to code your own USSMSG macros. These replace the default messages provided by IBM. You must use two different sets of messages if you have control units from both column A and column B.

Column A	Column B
3274-1A	3272
3276-11,12,13,14	3274-1B,1D

3274-1C
3276-1,2,3,4 SDLC

3271-1,2,11,12
3275-1,2,11,12
3276-1,2,3,4 With switch set to BSC

A control unit from column A is defined as a PU Type 2. The terminals attached to these control units do not recognize the Set Buffer Address and Start Field characters on the SSCP-to-LU session. The LUs only recognize the New Line character 'X'15'. This is a hardware restriction.

MODETAB OPERAND

IBM supplies a default mode table by the name of ISTINCLM (MVS and VSE). This mode table contains the following entries:

<u>Entry Name</u>	<u>Label Name</u>	<u>Devices</u>
INTERACT	IBM3767	3767
BATCH	IBM3770	3770
S3270	IBMS3270	3270 bsc 3270 sdlc 3270 local non-sna
IBM3600	IBM3600	3600
INTRACT	IBM3650I	3650
INTRUSER	IBM3650U	3650
IBMS3650	IBMS3650	3650
PIPELINE	IBM3650P	3650
SMAPPL	IBM3660	3660
SMSNA100	IBM3660A	3660
D6327801	D6327801	3276 sna with 3278 model 1 screen primary screen 12 x 40 (480) alternate screen 12 x 80 (960)
D6327802	D6327802	3276 sna with 3278 model 2 screen primary screen 24 x 80 (1920) no alternate screen defined
D6327803	D6327803	3276 sna with 3278 model 3 screen primary screen 24 x 80 (1920) alternate screen 32 x 80 (2560)
D6327804	D6327804	3276 sna with 3278 model 4 screen primary screen 24 x 80 (1920) alternate screen 43 x 80 (3440)
D6327805	D6327805	3276 sna with 3278 model 5 screen primary screen 24 x 80 (1920) alternate screen 27 x 132 (3564)
D6328904	D6328904	3276 sna with 3289 model 4 printer
D6328902	D6328902	3276 sna with 3289 model 2 printer
D4A32781	D4A32781	3274 model 1A with model 1 screen (local sna) primary screen 12 x 40 (480) alternate screen 12 x 80 (960)
D4A32782	D4A32782	3274 model 1A with model 2 screen (local sna) primary screen 24 x 80 (1920) no alternate screen defined
D4A32783	D4A32783	3274 model 1A with model 3 screen (local sna) primary screen 24 x 80 (1920) alternate screen 32 x 80 (2560)
D4A32784	D4A32784	3274 model 1A with model 4 screen (local sna) primary screen 24 x 80 (1920) alternate screen 43 x 80 (3440)
D4A32785	D4A32785	3274 model 1A with model 5 screen (local sna) primary screen 24 x 80 (1920) alternate screen 27 x 132 (3564)
D4A32771	D4A32771	3274 model 1A with 3277 model 1 screen
D4A32772	D4A32772	3274 model 1A with 3277 model 2 screen
D4C32781	D4C32781	3274 model 1C with model 1 screen (remote sna) primary screen 12 x 40 (480) alternate screen 12 x 80 (960)
D4C32782	D4C32782	3274 model 1C with model 2 screen

		(remote sna)
D4C32783	D4C32783	primary screen 24 x 80 (1920) no alternate screen defined 3274 model 1C with model 3 screen (remote sna)
D4C32784	D4C32784	primary screen 24 x 80 (1920) alternate screen 32 x 80 (2560) 3274 model 1C with model 4 screen (remote sna)
D4C32785	D4C32785	primary screen 24 x 80 (1920) alternate screen 43 x 80 (3440) 3274 model 1C with model 5 screen (remote sna)
D4C32771	D4C32771	primary screen 24 x 80 (1920) alternate screen 27 x 132 (3564)
D4C32772	D4C32772	3274 model 1C with 3277 model 1 screen
D4B32781	D4B32781	3274 model 1C with 3277 model 2 screen 3274 1B/1D w/mdl 1 screen(local non-sna) 3274 1C BSC with model 1 screen 3276 BSC with model 1 screen
D4B32782	D4B32782	primary screen 12 x 40 (480) alternate screen 12 x 80 (960) 3274 1B/1D w/mdl 2 screen(local non-sna) 3274 1C BSC with model 2 screen 3276 BSC with model 2 screen
D4B32783	D4B32783	primary screen 24 x 80 (1920) no alternate screen defined 3274 1B/1D w/mdl 3 screen(local non-sna) 3274 1C BSC with model 3 screen 3276 BSC with model 3 screen
D4B32784	D4B32784	primary screen 24 x 80 (1920) alternate screen 32 x 80 (2560) 3274 1B/1D w/mdl 4 screen(local non-sna) 3274 1C BSC with model 4 screen 3276 BSC with model 4 screen
D4B32785	D4B32785	primary screen 24 x 80 (1920) alternate screen 43 x 80 (3440) 3274 1B/1D w/mdl 5 screen(local non-sna) 3274 1C BSC with model 5 screen 3276 BSC with model 5 screen
SCS	SCS	primary screen 24 x 80 (1920) alternate screen 27 x 132 (3564)
DSC4K	DSC4K	printer with sna character set
DSC2K	DSC2K	printer with 4K buffer
BAT13790	BAT13790	printer with 2K buffer
EMU3790	EMU3790	3790 batch
RJE3790A	RJE3790A	3790 in data stream compat mode
RJE3790B	RJE3790B	3790 RJE
BAT23790	BAT23790	3790 RJE
BLK3790	BLK3790	3790 BATCH
SCS3790	SCS3790	3790 BULK PRINT
EMUDPCX	EMUDPCX	3790 with sna character set
ISTNLDM	ISTNLDM	3790 in DPCX emulation mode
D329001	D329001	NLDM mode for LU-LU session w/NCCF 3290 primary screen 24 x 80 alternate screen 62 x 160

NOTE- starting with ACF/VTAM Release 2, all Mode tables and USS tables should be placed in VTAMLIB and not LPALIB.

In order to insure that each device and application obtains the correct session parameters, it is usually preferable to have a specific Mode table for each device and not use the system defaults.

The entry S3270 is used for the following control units with 1920 character screens: 3271 BSC and SDLC, 3272, 3274 Models 1B and 1D, 3275 BSC and SDLC, and 3276 Models 1,2, 3, 4 with switch set to BSC. Now when you logon from a 3270 using the default USS table and default mode table you must specify:

```
logon applid(cics) logmode(s3270)
```

If you omit "logmode(s3270)" then ACF/VTAM will use the first entry (i.e, INTERACT) which is for the IBM 3767. This will cause a session not bound error.

DLOGMOD OPERAND

Now if you wish to save the 3270 operators time you will code DLOGMOD=S3270 on all of your 3270 TERMINAL and LU statements. If you install SNA 3270 devices then you have several alternatives.

1. Add a mode entry to the IBM default mode table and code this new entry name on the SNA logical unit definitions.
2. Define a new mode table for your SNA 3270s and code MODETAB= on these logical units.
3. Replace the IBM default table by one of your own.

(NCCF Note) If you install NCCF we recommend you define a mode table for each device type because NCCF requires an entry name of DSILGMOD. Each entry contains a different BIND image therefore you cannot use a single table.

If you have an entry for NCCF in your USS table then you can specify the default logmode entry (DSILGMOD); and with separate mode tables for each type of SNA device you can ensure the correct bind image is always used by NCCF.

The table below summarizes the results of coding the combinations of MODETAB and DLOGMOD.

MODETAB= coded	DLOGMOD= coded	Results
No	No	First entry in IBM default table (3767).
No	Yes	The specified entry in the IBM default table.
Yes	No	The first entry in the named table.
Yes	Yes	The named entry in the named table.

SSCPFM OPERAND

There are three options for this operand.

1. USS3270 - used for devices attached to 3271s and 3275s. Code this only on the PU macro, DO NOT code it on the LU.
2. USSSCS - used for devices attached to a 3274 (or 3276) operating in SNA mode. This allows operators at a device attached to this control unit type to enter a logon from the keyboard.
3. FSS - This instructs ACF/VTAM that this logical unit can only send in an Initiate Self SNA command. This type of logical unit does not use a USS table.

BNNSUP OPERAND

BNNSUP is an NCP parameter which instructs NCP to perform special functions on behalf of this type of device. For example, when a BIND command is sent to an SDLC 3270 (3271/3275) then this command is acknowledged by NCP, the command does not flow to the device.

The table on the next page summarizes these operands for the various device types.

-----*					
LOCAL	BSC	SNA	SDLC	OTHER	

	3270	3270	3270	3270	SNA	Default
	3272	3271 models 1,2	3274 models 1A,1C	3271 models 11,12	3600	
	3274 models 1B,1D	3275 models 1,2	3276 models 11,12 13,14	3275 models 11,12	3767 3770	
		3276 models 1,2,3,4 switch to BSC	3276 models 1,2,3,4 switch to SDLC		8100	Note (3)

USSTAB	YES	YES	YES	YES	YES Note (3)	ISTINCDT Note (1)
MODETAB	YES	YES	YES	YES	YES	ISTINCLM Note (2)
DLOGMOD	YES	YES	YES	YES	YES	First entry in default or specified table.
SSCPFM	NO	USS3270	USSSCS	USS3270 Code on PU macro	USSSCS or FSS	See specific Component Description Manual.
BNNSUP	NO	NO	NO	YES	NO	Must be coded only on 3271 or 3275 SDLC PU macros.

- NOTES (1): This is the name of the IBM supplied default USS table.
- (2): This is the name of the IBM supplied default MODE table. the first entry in this table is for the 3767.
- (3): Do not code USSTAB for 8100.

MODETAB EXAMPLES

REFERENCES

ACF/VTAM V2 Planning and Installation Reference SC27-0610

MODETAB with COS Entries

```

*****
* If you want use a modetab with cos entries this model could
* be used; in this manual was not used modetables with cos entries.
*****
      PRINT NOGEN
MTXXXX  MODETAB
*
ECHO    MODEENT LOGMODE=ECHO,COS=ECHO,
          FMPROF=X'02',TSPROF=X'02',PRIPROT=X'71',
X
X

```

```

                SECPROT=X'40',COMPROT=X'2000',RUSIZES=X'0000',
                PSERVIC=X'000000000000000000000000200'
CICS      MODEENT LOGMODE=CICS,COS=CICS,
                FMPROF=X'02',TSPROF=X'02',PRIPROT=X'71',
                SECPROT=X'40',COMPROT=X'2000',RUSIZES=X'0000',
                PSERVIC=X'000000000000000000000000200'
IMS      MODEENT LOGMODE=IMS,COS=IMS,
                FMPROF=X'02',TSPROF=X'02',PRIPROT=X'71',
                SECPROT=X'40',COMPROT=X'2000',RUSIZES=X'0000',
                PSERVIC=X'000000000000000000000000200'
TSO      MODEENT LOGMODE=TSO,COS=TSO,
                FMPROF=X'02',TSPROF=X'02',PRIPROT=X'71',
                SECPROT=X'40',COMPROT=X'2000',RUSIZES=X'0000',
                PSERVIC=X'000000000000000000000000200'
MODEEEND
END

```

Series/1, System/34 and 5280 MODEGS

MODEGS MODETAB

```

*
*****
* The following entry was used with the Series/1 using EDX SNA/RJE. *
*****
*

```

```

MODEENT LOGMODE=BATCHS1,FMPROF=X'03',TSPROF=X'03',
PRIPROT=X'A3',SECPROT=X'A1',COMPROT=X'7080',
PSNDPAC=0,SRCPAC=0,
RUSIZES=X'8585',PSERVIC=X'01112000B100C00000010040'

```

```

*
*****
* The following entry was used with the System/34 SRJE *
*****
*

```

```

TSYS34  MODEENT LOGMODE=TSYS34, APPL TO APPL BIND USED BY RJE/SYS34
                FMPROF=X'03', FUNCTION MANAGEMENT PROFILE
                TSPROF=X'03', TRANSMISSION SERVICES PROFILE
                PRIPROT=X'A3', PRIMARY PROTOCOL
                SECPROT=X'A3', SECONDARY PROTOCOL
                COMPROT=X'7080', COMMON PROTOCOL
                SRCVPAC=X'01', SLU RECEIVE PACING COUNT
                SSNDPAC=X'01', SLU SEND PACING COUNT
                RUSIZES=X'8585',
                PSERVIC=X'01102000F100C00000010040' LU SERVICES PROF

```

```

*
*****
* The following entry was used with the 5280 SRJE *
*****
*

```

```

T5280  MODEENT LOGMODE=T5280, APPL TO APPL BIND USED BY RJE/S5280
                FMPROF=X'03', FUNCTION MANAGEMENT PROFILE
                TSPROF=X'03', TRANSMISSION SERVICES PROFILE
                PRIPROT=X'A3', PRIMARY PROTOCOL
                SECPROT=X'A3', SECONDARY PROTOCOL
                COMPROT=X'7080', COMMON PROTOCOL
                SRCVPAC=X'01', SLU RECEIVE PACING COUNT
                SSNDPAC=X'01', SLU SEND PACING COUNT
                RUSIZES=X'8585',
                PSERVIC=X'01100000F100C10000010040' LU SERVICES PROF

```

```

*
*****
* The following entry was used with the 5280 and 3270 device emul. *
* Tested with TSO *
*****
*

```

```

EM3277  MODEENT LOGMODE=EM3270,
                FMPROF=X'03',
                TSPROF=X'03',
                PRIPROT=X'B1',
                SECPROT=X'90',
                COMPROT=X'3080',
                RUSIZES=X'8585',

```

```

                                PSERVIC=X'02000000000000000000200'
*
*****
* The following entry will work with the Series/1 using RPS/MTM *
* pass-through services (3278 emulation) with connection to TSO and *
* CICS. It will also work with the CM/1 when connecting to TSO and *
* CICS. *
*****
SERIES2  MODEENT LOGMODE=SER2DSC,                                     X
                                FMPROF=X'03',                          X
                                TSPROF=X'03',                          X
                                PRIPROT=X'B1',                          X
                                SECPROT=X'B0',                          X
                                COMPROT=X'3080',                        X
                                RUSIZES=X'8585',                        X
                                SRCVPAC=X'00',                          X
                                PSNDPAC=X'00',                          X
                                SSNDPAC=X'00',                          X
                                PSERVIC=X'02000000000000000000200'      X
*
*****
* The following entry will work with the Series/1 using RPS/MTM *
* pass-through services (3278 emulation) with connection to NCCF. *
* It will also work with the CM/1 when connecting to NCCF. *
*****
DSILGMOD MODEENT LOGMODE=DSILGMOD,                                     X
                                FMPROF=X'03',                          X
                                TSPROF=X'03',                          X
                                PRIPROT=X'B1',                          X
                                SECPROT=X'B0',                          X
                                COMPROT=X'3080',                        X
                                RUSIZES=X'0000',                        X
                                SRCVPAC=X'00',                          X
                                PSNDPAC=X'00',                          X
                                SSNDPAC=X'00',                          X
                                PSERVIC=X'000000000000000000000000'    X
*
*****
* The following entry will work with the Series/1 using CM/1 when *
* connected to Logical Units type 0 in full duplex. *
*****
S1NRF1  MODEENT LOGMODE=S1NRF1,                                       X
                                FMPROF=X'04',                          X
                                TSPROF=X'04',                          X
                                PRIPROT=X'30',                          X
                                SECPROT=X'10',                          X
                                COMPROT=X'0000'                          X
                                MODEEND
                                END

```

S/36 and 5280 MODEGS

```

MODEGS  MODETAB
* BATCHS1 PACING 0,0
  MODEENT LOGMODE=BATCHS1,FMPROF=X'03',TSPROF=X'03',
          PRIPROT=X'A3',SECPROT=X'A1',COMPROT=X'7080',
          PSNDPAC=0,SRCVPAC=0,
          RUSIZES=X'8585',PSERVIC=X'01112000B100C00000010040'
* BATCHS13 PACING 3,1
  MODEENT LOGMODE=BATCHS13,FMPROF=X'03',TSPROF=X'03',
          PRIPROT=X'A3',SECPROT=X'A1',COMPROT=X'7080',
          PSNDPAC=3,SRCVPAC=3,
          RUSIZES=X'8585',PSERVIC=X'01112000B100C00000010040'
* BATCHS17 PACING 7,1
  MODEENT LOGMODE=BATCHS17,FMPROF=X'03',TSPROF=X'03',
          PRIPROT=X'A3',SECPROT=X'A1',COMPROT=X'7080',
          PSNDPAC=7,SRCVPAC=7,
          RUSIZES=X'8585',PSERVIC=X'01112000B100C00000010040'
* TEST1

```


TAF MTLUTY2 Full-Screen Modetab

```
*****  
* MODE TABLE FOR LU TYPE 2 *  
* MODE TABLE FOR TAF FULL-SCREEN SESSION *  
*****  
MTLUTY2 PRINT NOGEN  
MODETAB  
MODEENT LOGMODE=MTLUTY2, X  
FMPROF=X'03', TSPROF=X'03', PRIPROT=X'B1', X  
SECPROT=X'90', COMPROT=X'3080', RUSIZES=X'88F8', X  
PSERVIC=X'020000000000185018507F00'  
MODEENT LOGMODE=DSILGMOD, X  
FMPROF=X'03', TSPROF=X'03', PRIPROT=X'B1', X  
SECPROT=X'90', COMPROT=X'3080', RUSIZES=X'88F8', X  
PSERVIC=X'020000000000185018507F00'  
MODEEND  
END
```

Note: It is not necessary to have this mode table unless NCCF is to used with full-screen session with another NCCF. The system table contains entries such as D6327802 that will work.

NJE MODENJE

```
MODENJE PRINT NOGEN  
MODETAB  
MODEENT LOGMODE=MTNJE77, X  
FMPROF=X'03', X  
TSPROF=X'03', X  
PRIPROT=X'72', X  
SECPROT=X'72', X  
COMPROT=X'4020', X  
PSNDPAC=7, X  
SSNDPAC=7, X  
RUSIZES=X'8686' X  
MODEEND  
END
```

RJE MODERJE

```
MODERJE MODETAB  
* BATCHS1 PACING 0,0  
MODEENT LOGMODE=BATCHS1, FMPROF=X'03', TSPROF=X'03', C  
PRIPROT=X'A3', SECPROT=X'A1', COMPROT=X'7080', C  
PSNDPAC=0, SRCVPAC=0, C  
RUSIZES=X'8585', PSERVIC=X'01112000B100C00000010040'  
* BATCHS13 PACING 3,1  
MODEENT LOGMODE=BATCHS13, FMPROF=X'03', TSPROF=X'03', C  
PRIPROT=X'A3', SECPROT=X'A1', COMPROT=X'7080', C  
PSNDPAC=3, SRCVPAC=3, C  
RUSIZES=X'8585', PSERVIC=X'01112000B100C00000010040'  
* BATCHS17 PACING 7,1  
MODEENT LOGMODE=BATCHS17, FMPROF=X'03', TSPROF=X'03', C  
PRIPROT=X'A3', SECPROT=X'A1', COMPROT=X'7080', C  
PSNDPAC=7, SRCVPAC=7, C  
RUSIZES=X'8585', PSERVIC=X'01112000B100C00000010040'  
* PACING =3  
MODEENT LOGMODE=RJE8100B, FMPROF=X'03', TSPROF=X'03', C  
PRIPROT=X'A3', SECPROT=X'A3', COMPROT=X'7080', C  
PSNDPAC=3, SRCVPAC=3, C  
RUSIZES=X'8686', PSERVIC=X'01216000F100800000010044'  
* PACING =7  
MODEENT LOGMODE=RJE8100C, FMPROF=X'03', TSPROF=X'03', C  
PRIPROT=X'A3', SECPROT=X'A3', COMPROT=X'7080', C  
PSNDPAC=7, SRCVPAC=7, C
```

```

DSC          RUSIZES=X'8686',PSERVIC=X'01216000F100902000810044'
MODEENT LOGMODE=DS1920,
FMPPROF=X'03',
TSPPROF=X'03',
PRIPROT=X'B1',
SECPROT=X'B0',
COMPROT=X'3080',
RUSIZES=X'85C7',
PSERVIC=X'020000000000185000007E00'
DSILGMOD MODEENT LOGMODE=DSILGMOD,
FMPPROF=X'03',
TSPPROF=X'03',
PRIPROT=X'B1',
SECPROT=X'90',
COMPROT=X'3080',
RUSIZES=X'85C7',
PSERVIC=X'020000000000185000007E00'
* DSX - HDT SESSION PARAMETERS
MODEENT LOGMODE=MODHDTPX,
FMPPROF=X'03',
TSPPROF=X'04',
PRIPROT=X'B0',
SECPROT=X'B0',
COMPROT=X'4000',
RUSIZES=X'8585'
* DSX - HDT SESSION PARAMETERS
MODEENT LOGMODE=MODHDT07,
FMPPROF=X'03',
TSPPROF=X'04',
PRIPROT=X'B0',
SECPROT=X'B0',
COMPROT=X'4000',
PSNDPAC=07,
SRCVPAC=07,
SSNDPAC=07,
RUSIZES=X'8585'
* DSX - HDT SESSION PARAMETERS
MODEENT LOGMODE=MODHDT47,
FMPPROF=X'03',
TSPPROF=X'04',
PRIPROT=X'B0',
SECPROT=X'B0',
COMPROT=X'4000',
PSNDPAC=07,
SRCVPAC=07,
SSNDPAC=07,
RUSIZES=X'8989'
* DSX - HDT SESSION PARAMETERS
MODEENT LOGMODE=MODHDT15,
FMPPROF=X'03',
TSPPROF=X'04',
PRIPROT=X'B0',
SECPROT=X'B0',
COMPROT=X'4000',
PSNDPAC=15,
SRCVPAC=15,
SSNDPAC=15,
RUSIZES=X'8585'
* TEST1
MODEENT LOGMODE=RJE81000,FMPPROF=X'03',TSPPROF=X'03',
PRIPROT=X'A3',SECPROT=X'A3',COMPROT=X'7080',
RUSIZES=X'8585',PSERVIC=X'01216000F100800000010044'
* PACING =6,1
MODEENT LOGMODE=RJE81006,FMPPROF=X'03',TSPPROF=X'03',
PRIPROT=X'A3',SECPROT=X'A3',COMPROT=X'7080',
PSNDPAC=6,SRCVPAC=6,
RUSIZES=X'8585',PSERVIC=X'01216000F100800000010044'
* PACING =2,1
MODEENT LOGMODE=RJE81002,FMPPROF=X'03',TSPPROF=X'03',
PRIPROT=X'A3',SECPROT=X'A3',COMPROT=X'7080',
PSNDPAC=2,SRCVPAC=2,
RUSIZES=X'8585',PSERVIC=X'01216000F100800000010044'
MODEENT LOGMODE=RJE3790A,FMPPROF=X'03',TSPPROF=X'03',
PRIPROT=X'A3',SECPROT=X'A3',COMPROT=X'7080',
RUSIZES=X'8585',PSERVIC=X'011060F10080800000010040'

```

```

MODEENT LOGMODE=RJE3790B,FMPROF=X'03',TSPROF=X'03',
PRIPROT=X'A3',SECPROT=X'A1',COMPROT=X'7080',
RUSIZES=X'8585',PSERVIC=X'01106000F100808000010040'
B8586 MODEENT LOGMODE=PS8586,FMPROF=X'03',TSPROF=X'03',
PRIPROT=X'B1',SECPROT=X'B0',COMPROT=X'3080',
RUSIZES=X'8586',PSERVIC=X'020000000000185000007E00'
HPS1920 MODEENT LOGMODE=PS1920,
FMPROF=X'03',
TSPROF=X'03',
PRIPROT=X'B1',
SECPROT=X'B0',
COMPROT=X'3080',
RUSIZES=X'85C7',
PSERVIC=X'020000000000185000007E00'
HPS2560 MODEENT LOGMODE=PS2560,
FMPROF=X'03',
TSPROF=X'03',
PRIPROT=X'B1',
SECPROT=X'B0',
COMPROT=X'3080',
RUSIZES=X'85C7',
PSERVIC=X'020000000000205000007E00'
HPS3440 MODEENT LOGMODE=PS3440,
FMPROF=X'03',
TSPROF=X'03',
PRIPROT=X'B1',
SECPROT=X'B0',
COMPROT=X'3080',
RUSIZES=X'85C7',
PSERVIC=X'0200000000002B5000007E00'
* THE GR-ENTRIES ARE EQUAL TO THE PS-ENTRIES WITH ADDITION OF
* THE QUERY-BIT IN SECND BYTE OF PSERVICE
HGR1920 MODEENT LOGMODE=GR1920,
FMPROF=X'03',
TSPROF=X'03',
PRIPROT=X'B1',
SECPROT=X'B0',
COMPROT=X'3080',
RUSIZES=X'85C7',
PSERVIC=X'028000000000185000007E00'
HGR2560 MODEENT LOGMODE=GR2560,
FMPROF=X'03',
TSPROF=X'03',
PRIPROT=X'B1',
SECPROT=X'B0',
COMPROT=X'3080',
RUSIZES=X'85C7',
PSERVIC=X'028000000000205000007E00'
HGR3440 MODEENT LOGMODE=GR3440,
FMPROF=X'03',
TSPROF=X'03',
PRIPROT=X'B1',
SECPROT=X'B0',
COMPROT=X'3080',
RUSIZES=X'85C7',
PSERVIC=X'0280000000002B5000007E00'
HPSIMS MODEENT LOGMODE=HPSIMS, APPL TO APPL BIND USED BY HPS/IMS
FMPROF=X'04', FUNCTION MANAGEMENT PROFILE
TSPROF=X'04', TRANSMISSION SERVICES PROFILE
PRIPROT=X'B1', PRIMARY PROTOCOL
SECPROT=X'B1', SECONDARY PROTOCOL
COMPROT=X'7080', COMMON PROTOCOL
SRCVPAC=X'00', SLU RECEIVE PACING COUNT
SSNDPAC=X'00', SLU SEND PACING COUNT
PSNDPAC=X'00', PRIMARY SEND PACING COUNT
RUSIZES=X'0000', OVERRIDDEN BY IMS WITH COMM & OUTBUF
PSERVIC=X'000000000000000000000000' LU SERVICES PROF
HPSCICS MODEENT LOGMODE=HPSCICS, APPL TO APPL BIND USED BY HPS/CICS
FMPROF=X'04', FUNCTION MANAGEMENT PROFILE
TSPROF=X'04', TRANSMISSION SERVICES PROFILE
PRIPROT=X'B1', PRIMARY PROTOCOL
SECPROT=X'B0', SECONDARY PROTOCOL
COMPROT=X'7080', COMMON PROTOCOL
SRCVPAC=X'00', SLU RECEIVE PACING COUNT
SSNDPAC=X'00', SLU SEND PACING COUNT

```

```

PSNDPAC=X'00', PRIMARY SEND PACING COUNT C
RUSIZES=X'8585', PRI RU SIZE 256, SEC RU SIZE 256 C
PSERVIC=X'00000000000000000000000000000000' LU SERVICES PROF C
HPSCICS1 MODEENT LOGMODE=HPSCICS1, APPL TO APPL BIND USED BY HPS/CICS C
FMPROF=X'04', FUNCTION MANAGEMENT PROFILE C
TSPROF=X'04', TRANSMISSION SERVICES PROFILE C
PRIPROT=X'B1', PRIMARY PROTOCOL C
SECPROT=X'B0', SECONDARY PROTOCOL C
COMPROT=X'7080', COMMON PROTOCOL C
SRCVPAC=X'00', SLU RECEIVE PACING COUNT C
SSNDPAC=X'00', SLU SEND PACING COUNT C
PSNDPAC=X'00', PRIMARY SEND PACING COUNT C
RUSIZES=X'8685', PRI RU SIZE 256, SEC RU SIZE 256 C
PSERVIC=X'00000000000000000000000000000000' LU SERVICES PROF C
HPSCICS2 MODEENT LOGMODE=HPSCICS2, APPL TO APPL BIND USED BY HPS/CICS C
FMPROF=X'04', FUNCTION MANAGEMENT PROFILE C
TSPROF=X'04', TRANSMISSION SERVICES PROFILE C
PRIPROT=X'B1', PRIMARY PROTOCOL C
SECPROT=X'B0', SECONDARY PROTOCOL C
COMPROT=X'7080', COMMON PROTOCOL C
SRCVPAC=X'00', SLU RECEIVE PACING COUNT C
SSNDPAC=X'00', SLU SEND PACING COUNT C
PSNDPAC=X'00', PRIMARY SEND PACING COUNT C
RUSIZES=X'8586', PRI RU SIZE 256, SEC RU SIZE 256 C
PSERVIC=X'00000000000000000000000000000000' LU SERVICES PROF C
HPSCICS3 MODEENT LOGMODE=HPSCICS3, APPL TO APPL BIND USED BY HPS/CICS C
FMPROF=X'04', FUNCTION MANAGEMENT PROFILE C
TSPROF=X'04', TRANSMISSION SERVICES PROFILE C
PRIPROT=X'B1', PRIMARY PROTOCOL C
SECPROT=X'B0', SECONDARY PROTOCOL C
COMPROT=X'7080', COMMON PROTOCOL C
SRCVPAC=X'00', SLU RECEIVE PACING COUNT C
SSNDPAC=X'00', SLU SEND PACING COUNT C
PSNDPAC=X'00', PRIMARY SEND PACING COUNT C
RUSIZES=X'F8C7', PRI RU SIZE 256, SEC RU SIZE 256 C
PSERVIC=X'00000000000000000000000000000000' LU SERVICES PROF C
HPSCICS4 MODEENT LOGMODE=HPSCICS4, APPL TO APPL BIND USED BY HPS/CICS C
FMPROF=X'04', FUNCTION MANAGEMENT PROFILE C
TSPROF=X'04', TRANSMISSION SERVICES PROFILE C
PRIPROT=X'B1', PRIMARY PROTOCOL C
SECPROT=X'B0', SECONDARY PROTOCOL C
COMPROT=X'7080', COMMON PROTOCOL C
SRCVPAC=X'00', SLU RECEIVE PACING COUNT C
SSNDPAC=X'00', SLU SEND PACING COUNT C
PSNDPAC=X'00', PRIMARY SEND PACING COUNT C
RUSIZES=X'F8F8', PRI RU SIZE 256, SEC RU SIZE 256 C
PSERVIC=X'00000000000000000000000000000000' LU SERVICES PROF C
TSYS34 MODEENT LOGMODE=TSYS34, APPL TO APPL BIND USED BY RJE/SYS34 C
FMPROF=X'03', FUNCTION MANAGEMENT PROFILE C
TSPROF=X'03', TRANSMISSION SERVICES PROFILE C
PRIPROT=X'A3', PRIMARY PROTOCOL C
SECPROT=X'A3', SECONDARY PROTOCOL C
COMPROT=X'7080', COMMON PROTOCOL C
SRCVPAC=X'01', SLU RECEIVE PACING COUNT C
SSNDPAC=X'01', SLU SEND PACING COUNT C
RUSIZES=X'8585', C
PSERVIC=X'01102000F100C00000010040' LU SERVICES PROF C
MODEEND
END

```

PARS MTAPPC

```

MTAPPC MODETAB
CICSPARS MODEENT LOGMODE=CICSPARS, C
FMPROF=X'12', C
TSPROF=X'04', C
PRIPROT=X'B1', C
SECPROT=X'B1', C
COMPROT=X'70A0', C
RUSIZES=X'8686', C
PSNDPAC=03, X

```

```

SRCVPAC=04,
SSNDPAC=05,
PSERVIC=X'06003800000C380000000000'
IMSPARS  MODEENT LOGMODE=IMSPARS,
          FMPROF=X'12',
          TSPROF=X'04',
          PRIPROT=X'B1',
          SECPROT=X'B1',
          COMPROT=X'70A0',
          RUSIZES=X'8686',
          PSNDPAC=X'FF',
          SRCVPAC=X'FF',
          SSNDPAC=X'FF',
          PSERVIC=X'06003800000C380000000000'
APPCLGMD MODEENT LOGMODE=APPCLGMD
APPCNEGB MODEENT LOGMODE=APPCNEGB
SNASVCMG MODEENT LOGMODE=SNASVCMG
MODEEND
END

```

```

X
X
C
C
C
C
C
X
X
X

```

NCCF NCCFXDOM

```

*****
* NCCFXDOM LOGMODE TABLE FOR NCCF CROSS-DOMAIN
*****
NCCFXDOM MODETAB
DSILGMOD MODEENT LOGMODE=DSILGMOD, FMPROF=X'03', TSPROF=X'03',
          PRIPROT=X'20', SECPROT=X'20', COMPROT=X'4000',
          PSERVIC=X'000000000000000000000000', RUSIZES=X'A386'
MODEEND
END

```

```

*
*

```

NTO

```

*****
* THE 6580 MT6580 TABLE HAS ENTRIES FOR NTO
*****

```

POWER MTPNET

```

*****
* MTPNET LOGMODE TABLE FOR POWER NETWORKING
*****
MTPNET  MODETAB
MTPNET  MODEENT LOGMODE=MTPNET, PSNDPAC=3, SRCVPAC=3, SSNDPAC=3
MODEEND
END

```

3277/3278 MT3270

```

*****
* 3270 NON-SNA
*
* MODE TABLE FOR 3277 LOCAL (3272 CONTROL UNIT)
* MODE TABLE FOR 3277 LOCAL (3274 CONTROL UNIT)
* MODE TABLE FOR 3278 LOCAL (3274 CONTROL UNIT)
* MODE TABLE FOR 3277 REMOTE (3271 CONTROL UNIT MODEL 11/12)
* MODE TABLE FOR 3277 REMOTE (3275 CONTROL UNIT MODEL 1/2)
*****

```

```

PRINT NOGEN
MT3270  MODETAB
*
* DEFAULT MODE FOR 3277, MODEL 2 *
*
S3270  MODEENT LOGMODE=S3270,
        FMPROF=X'02',TSPROF=X'02',PRIPROT=X'71',
        SECPROT=X'40',COMPROT=X'2000',RUSIZES=X'0000',
        PSERVIC=X'00000000000000000000200'
*
* DEFAULT MODE FOR 3278, MODEL 2 *
* (It is the same that above S3270)
*
M3278M2  MODEENT LOGMODE=M3278M2,
        FMPROF=X'02',TSPROF=X'02',PRIPROT=X'71',
        SECPROT=X'40',COMPROT=X'2000',RUSIZES=X'0000',
        PSERVIC=X'00000000000000000000200'
*
* DEFAULT MODE FOR 3278, MODEL 3 *
*
M3278M3  MODEENT LOGMODE=M3278M3,
        FMPROF=X'02',TSPROF=X'02',PRIPROT=X'71',
        SECPROT=X'40',COMPROT=X'2000',RUSIZES=X'0000',
        PSERVIC=X'000000000000185020507E00'
*
* 'STANDARD' MODE FOR NOSP, NCCF, ETC. *
*
DSILGMOD  MODEENT LOGMODE=DSILGMOD,
        FMPROF=X'02',TSPROF=X'02',PRIPROT=X'71',
        SECPROT=X'40',COMPROT=X'2000',RUSIZES=X'0000',
        PSERVIC=X'00000000000000000000200'
ECHO      MODEENT LOGMODE=ECHO,
        FMPROF=X'02',TSPROF=X'02',PRIPROT=X'71',
        SECPROT=X'40',COMPROT=X'2000',RUSIZES=X'0000',
        PSERVIC=X'00000000000000000000200'
CICS      MODEENT LOGMODE=CICS,
        FMPROF=X'02',TSPROF=X'02',PRIPROT=X'71',
        SECPROT=X'40',COMPROT=X'2000',RUSIZES=X'0000',
        PSERVIC=X'00000000000000000000200'
IMS       MODEENT LOGMODE=IMS,
        FMPROF=X'02',TSPROF=X'02',PRIPROT=X'71',
        SECPROT=X'40',COMPROT=X'2000',RUSIZES=X'0000',
        PSERVIC=X'00000000000000000000200'
TSO       MODEENT LOGMODE=TSO,
        FMPROF=X'02',TSPROF=X'02',PRIPROT=X'71',
        SECPROT=X'40',COMPROT=X'2000',RUSIZES=X'0000',
        PSERVIC=X'00000000000000000000200'
*
* SPECIAL MODE SUPPORTING 3278/9 (MODEL 2) WITH GRAPHICS AND COLOR *
*
M3279M2  MODEENT LOGMODE=M3279M2,FMPROF=X'02',TSPROF=X'02',
        PRIPROT=X'71',SECPROT=X'40',COMPROT=X'2000',
        PSERVIC=X'008000000000000000000000'
*
* SPECIAL MODE SUPPORTING 3278/9 (MODEL 3) WITH GRAPHICS AND COLOR *
*
M3279M3  MODEENT LOGMODE=M3279M3,FMPROF=X'02',TSPROF=X'02',
        PRIPROT=X'71',SECPROT=X'40',COMPROT=X'2000',
        PSERVIC=X'008000000000185020507F00'
*
* SPECIAL MODE SUPPORTING 3278 (MODEL 4) WITH GRAPHICS *
*
M3278M4  MODEENT LOGMODE=M3278M4,FMPROF=X'02',TSPROF=X'02',
        PRIPROT=X'71',SECPROT=X'40',COMPROT=X'2000',
        PSERVIC=X'00800000000018502B507F00'
*
* SPECIAL MODE SUPPORTING 3278 (MODEL 5) WITH GRAPHICS *
*
M3278M5  MODEENT LOGMODE=M3278M5,FMPROF=X'02',TSPROF=X'02',
        PRIPROT=X'71',SECPROT=X'40',COMPROT=X'2000',
        PSERVIC=X'00800000000018501B847F00'
*
* SPECIAL MODES SUPPORTING 327X FOR HCF WITH DPCX *
*
HCFDPCX  MODEENT LOGMODE=HCFDPCX,

```



```

      FMPROF=X'02',TSPROF=X'02',PRIPROT=X'71',
      SECPROT=X'40',COMPROT=X'2000',
      RUSIZES=X'A8A8',
      PSERVIC=X'02000000000000000000200'
HCFDPCT MODEENT LOGMODE=HCFDPCT,
      FMPROF=X'02',TSPROF=X'02',PRIPROT=X'71',
      SECPROT=X'40',COMPROT=X'2000',
      RUSIZES=X'A8A8',
      PSERVIC=X'00000000000000000000200'
MODEEND
END

```

3278/3287 MT3274A2

```

*****
* MODE TABLE FOR 3278/3287 LOCAL (3274-1A CONTROL UNIT)
*
* The DSILGMOD, TSO, ECHO, CICS and IMS use model 2 display definitions
*****

```

```

MT3274A2 MODETAB
T3278M2 MODEENT LOGMODE=T3278M2,
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7',
      PSERVIC=X'020000000000185018507F00'
T3278M3 MODEENT LOGMODE=T3278M3,
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7',
      PSERVIC=X'020000000000185020507F00'
T3278M4 MODEENT LOGMODE=T3278M4,
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7',
      PSERVIC=X'02000000000018502B507F00'
T3278M1 MODEENT LOGMODE=T3278M1,
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7',
      PSERVIC=X'0200000000000C280C507F00'
DSILGMOD MODEENT LOGMODE=DSILGMOD, MODEL 2
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7',
      PSERVIC=X'028000000000185018507F00'
TSO MODEENT LOGMODE=TSO, MODEL 2
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7',
      PSERVIC=X'028000000000185018507F00'
ECHO MODEENT LOGMODE=ECHO, MODEL 2
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7',
      PSERVIC=X'020000000000185018507F00'
CICS MODEENT LOGMODE=CICS, MODEL 2
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7',
      PSERVIC=X'020000000000185018507F00'
IMS MODEENT LOGMODE=IMS, MODEL 2
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7',
      PSERVIC=X'020000000000185018507F00'

```

```

*****
* MODE TABLE FOR DISPLAY QUERY AND
* EXTENDED GRAPHIC TERMINALS (3279)
*****

```

```

GMOD2E MODEENT LOGMODE=GMOD2E,
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7',
      PSERVIC=X'02800000000000000000200'
GMOD3E MODEENT LOGMODE=GMOD3E, (1920,2560)
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7',
      PSERVIC=X'028000000000185020507F00'
GMOD4E MODEENT LOGMODE=GMOD4E, (1920,3440)
      FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
      SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7',

```

```

PSERVIC=X'02800000000018502B507F00'
*****
* MODE TABLE FOR MODEL 5
*****
GMOD5W  MODEENT LOGMODE=GMOD5W, (1920,3560) X
        FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1', X
        SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7', X
        PSERVIC=X'02800000000018501B847F00'
*****
* MODE TABLE FOR PRINTER QUERY AND COLOR PRINTER (3287-2C)
*****
PMOD2E  MODEENT LOGMODE=PMOD2E, X
        FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1', X
        SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7', X
        PSERVIC=X'03800000000018502B507F00'
MODEEND
END

```

3278/3287 MT3274A3

```

*****
* MODE TABLE FOR 3278/3287 LOCAL (3274-1A CONTROL UNIT)
*
* The DSILGMOD, TSO, ECHO, CICS and IMS use model 3 display definitions
*****
PRINT NOGEN
MT3274A3 MODETAB
T3278M2  MODEENT LOGMODE=T3278M2, X
        FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1', X
        SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7', X
        PSERVIC=X'020000000000185018507F00'
T3278M3  MODEENT LOGMODE=T3278M3, X
        FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1', X
        SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7', X
        PSERVIC=X'020000000000185020507F00'
T3278M4  MODEENT LOGMODE=T3278M4, X
        FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1', X
        SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7', X
        PSERVIC=X'02000000000018502B507F00'
T3278M1  MODEENT LOGMODE=T3278M1, X
        FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1', X
        SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7', X
        PSERVIC=X'0200000000000C280C507F00'
DSILGMOD MODEENT LOGMODE=DSILGMOD, MODEL 3 X
        FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1', X
        SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7', X
        PSERVIC=X'028000000000185020507F00'
TSO      MODEENT LOGMODE=TSO, MODEL 3 X
        FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1', X
        SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7', X
        PSERVIC=X'028000000000185020507F00'
CICS     MODEENT LOGMODE=CICS, MODEL 3 X
        FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1', X
        SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7', X
        PSERVIC=X'020000000000185020507F00'
IMS      MODEENT LOGMODE=IMS, MODEL 3 X
        FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1', X
        SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7', X
        PSERVIC=X'020000000000185020507F00'
*****
* MODE TABLE FOR HCF WITH DPCX
*****
HCFDPCX MODEENT LOGMODE=HCFDPCX, X
        FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1', X
        SECPROT=X'B0',COMPROT=X'3080',RUSIZES=X'A8A8', X
        PSERVIC=X'0200000000000000000200'
*****
* MODE TABLE FOR DISPLAY QUERY AND
* EXTENDED GRAPHIC TERMINALS (3279)
*****
GMOD2E  MODEENT LOGMODE=GMOD2E, X

```

```

                FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
                SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7',
                PSERVIC=X'02800000000000000000200'
GMOD3E  MODEENT LOGMODE=GMOD3E,          (1920,2560)
                FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
                SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7',
                PSERVIC=X'028000000000185020507F00'
GMOD4E  MODEENT LOGMODE=GMOD4E,          (1920,3440)
                FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
                SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7',
                PSERVIC=X'02800000000018502B507F00'
*****
* MODE TABLE FOR MODEL 5
*****
GMOD5W  MODEENT LOGMODE=GMOD5W,          (1920,3560)
                FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
                SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7',
                PSERVIC=X'02800000000018501B847F00'
*****
* MODE TABLE FOR PRINTER QUERY AND COLOR PRINTER (3287-2C)
*****
PMOD2E  MODEENT LOGMODE=PMOD2E,
                FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
                SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'87C7',
                PSERVIC=X'03800000000018502B507F00'
MODEEND
END

```

3278 MT32762

```

*****
* MODE TABLE FOR 3278 MOD. 2 DISPLAYS REMOTE (3276 CONTROL UNIT SDLC)
*****
PRINT NOGEN
MT32762  MODETAB
T32782  MODEENT LOGMODE=T3278M2,
                FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
                SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'88F8',
                PSERVIC=X'020000000000185018507F00'
DSILGMOD MODEENT LOGMODE=DSILGMOD,
                FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
                SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'88F8',
                PSERVIC=X'020000000000185018507F00'
CICS     MODEENT LOGMODE=CICS,
                FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
                SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'88F8',
                PSERVIC=X'020000000000185018507F00'
TSO      MODEENT LOGMODE=TSO,
                FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
                SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'88F8',
                PSERVIC=X'020000000000185018507F00'
IMS      MODEENT LOGMODE=IMS,
                FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',
                SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'88F8',
                PSERVIC=X'020000000000185018507F00'
MODEEND
END

```

3278 MT32763

```

*****
* MODE TABLE FOR 3278 MOD. 3 DISPLAYS REMOTE (3276 CONTROL UNIT SDLC)
*****
PRINT NOGEN
MT32763  MODETAB
T32783  MODEENT LOGMODE=T3278M3,

```

```

          FMPROF=X'03', TSPROF=X'03', PRIPROT=X'B1',
          SECPROT=X'90', COMPROT=X'3080', RUSIZES=X'88F8',
          PSERVIC=X'020000000000185020507F00'
DSILGMOD MODEENT LOGMODE=DSILGMOD,
          FMPROF=X'03', TSPROF=X'03', PRIPROT=X'B1',
          SECPROT=X'90', COMPROT=X'3080', RUSIZES=X'88F8',
          PSERVIC=X'020000000000185020507F00'
CICS      MODEENT LOGMODE=CICS,
          FMPROF=X'03', TSPROF=X'03', PRIPROT=X'B1',
          SECPROT=X'90', COMPROT=X'3080', RUSIZES=X'88F8',
          PSERVIC=X'020000000000185020507F00'
IMS      MODEENT LOGMODE=IMS,
          FMPROF=X'03', TSPROF=X'03', PRIPROT=X'B1',
          SECPROT=X'90', COMPROT=X'3080', RUSIZES=X'88F8',
          PSERVIC=X'020000000000185020507F00'
TSO      MODEENT LOGMODE=TSO,
          FMPROF=X'03', TSPROF=X'03', PRIPROT=X'B1',
          SECPROT=X'90', COMPROT=X'3080', RUSIZES=X'88F8',
          PSERVIC=X'020000000000185020507F00'
MODEEND
END

```

3287/3289 MT3287

```

*****
* MODE TABLE FOR 3287 & 3289 PRINTERS
*****
PRINT NOGEN
MT3287  MODETAB
MODEENT LOGMODE=SCS,
          FMPROF=X'03', TSPROF=X'03', PRIPROT=X'B1',
          SECPROT=X'90', COMPROT=X'3080', RUSIZES=X'87C6',
          PSERVIC=X'01000000E100000000000000',
          PSNDPAC=X'01', SRCVPAC=X'01'
MODEENT LOGMODE=DSC4K,
          FMPROF=X'03', TSPROF=X'03', PRIPROT=X'B1',
          SECPROT=X'90', COMPROT=X'3080', RUSIZES=X'8787',
          PSERVIC=X'03000000000018502B507F00'
MODEENT LOGMODE=DSC2K,
          FMPROF=X'03', TSPROF=X'03', PRIPROT=X'B1',
          SECPROT=X'90', COMPROT=X'3080', RUSIZES=X'8787',
          PSERVIC=X'030000000000185018507F00'
MODEENT LOGMODE=DSILGMOD,
          FMPROF=X'03', TSPROF=X'03', PRIPROT=X'B1',
          SECPROT=X'90', COMPROT=X'3080', RUSIZES=X'8787',
          PSERVIC=X'01000000E100000000000000',
          PSNDPAC=X'01', SRCVPAC=X'01'
MODEEND
END

```

3650 MT3650

```

MT3650  MODETAB
* HCP LU
MODEENT LOGMODE=IBMS3650,
          FMPROF=X'04',
          TSPROF=X'04',
          PRIPROT=X'B0',
          SECPROT=X'B0',
          COMPROT=X'4000',
          RUSIZES=X'8585',
          SSNDPAC=1
* IBM3650
MODEENT LOGMODE=IBM3650,
          FMPROF=X'04',
          TSPROF=X'04',
          PRIPROT=X'B0',

```

```

                SECPROT=X'B0',
                COMPROT=X'4000'
* CREDIT (PIPELINE) LU
  MODEENT LOGMODE=PIPELINE,
                FMPROF=X'04',
                TSPROF=X'04',
                PRIPROT=X'30',
                SECPROT=X'10',
                COMPROT=X'0000',
                RUSIZES=X'8585',
                SSNDPAC=0
* 3653/3275 CONVERSATIONAL LU
  MODEENT LOGMODE=INTRACT,
                FMPROF=X'04',
                TSPROF=X'04',
                SSNDPAC=0,
                PRIPROT=X'B1',
                SECPROT=X'90',
                COMPROT=X'6000',
                RUSIZES=X'8585'
* SPPS II USER PROGRAM LUS
  MODEENT LOGMODE=INTRUSER,
                FMPROF=X'04',
                TSPROF=X'04',
                PRIPROT=X'31',
                SECPROT=X'30',
                COMPROT=X'6000',
                SSNDPAC=01,
                RUSIZES=X'8585'
  MODEEND
  END

```

3767 MT3767

```

*****
* MODE TABLE FOR:
*           3767
*
*****
          PRINT NOGEN
MT3767   MODETAB
ENTRY1  MODEENT LOGMODE=ENTRY1,  LUTYPE 1 (HCF)
                FMPROF=X'03',
                TSPROF=X'03',
                PRIPROT=X'B1',
                SECPROT=X'90',
                COMPROT=X'3080',
                SSNDPAC=X'00',
                SRCVPAC=X'01',
                RUSIZES=X'8585',
                PSNDPAC=X'01',
                PSERVIC=X'010000008000800000800080'
VCNATWX MODEENT LOGMODE=VCNATWX, LUTYPE 1 (VCNA 3767 FOR TWX)
                FMPROF=X'03',
                TSPROF=X'03',
                PRIPROT=X'B1',
                SECPROT=X'90',
                COMPROT=X'3080',
                PSERVIC=X'010000000000000000000000'
VCNA2741 MODEENT LOGMODE=VCNA2741, LUTYPE 1 (VCNA 3767 FOR 2741)
                FMPROF=X'03',
                TSPROF=X'03',
                PRIPROT=X'B1',
                SECPROT=X'90',
                COMPROT=X'3080',
                PSERVIC=X'014000000000000000000000'
INTERACT MODEENT LOGMODE=INTERACT, FMPROF=X'03', TSPROF=X'03',
                PRIPROT=X'B1', SECPROT=X'A0', COMPROT=X'3040'
NRF1     MODEENT LOGMODE=NRF1, FMPROF=X'03', TSPROF=X'03',
                PRIPROT=X'11', SECPROT=X'91', COMPROT=X'3040'
NRF2     MODEENT LOGMODE=NRF2, FMPROF=X'03', TSPROF=X'03',

```

```

                PRIPROT=X'11',SECPROT=X'91',COMPROT=X'3080'
IMSEXCP MODEENT LOGMODE=IMSEXCP,FMPROF=X'03',TSPROF=X'03',          X
                PRIPROT=X'B1',SECPROT=X'90',COMPROT=X'3040'
CNTPROT MODEENT LOGMODE=CNTPROT,FMPROF=X'03',TSPROF=X'03',          X
                PRIPROT=X'B1',SECPROT=X'91',COMPROT=X'3040'
DEFFLIP MODEENT LOGMODE=DEFFLIP,FMPROF=X'03',TSPROF=X'03',          X
                PRIPROT=X'F9',SECPROT=X'E8',COMPROT=X'3081'
EXECFLIP MODEENT LOGMODE=EXECFLIP,FMPROF=X'03',TSPROF=X'03',          X
                PRIPROT=X'F9',SECPROT=X'D8',COMPROT=X'3081'
EXECCONT MODEENT LOGMODE=EXECCONT,FMPROF=X'03',TSPROF=X'03',          X
                PRIPROT=X'F9',SECPROT=X'D9',COMPROT=X'3041'
DSILGMOD MODEENT LOGMODE=DSILGMOD, NCCF HARDCOPY                      X
                FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',              X
                SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'8787',        X
                PSERVIC=X'01000000E100000000000000',                X
                PSNDPAC=X'01',SRCVPAC=X'01'
MODEEND
END

```

4700 MT4700

```

*****
* 4700 SNA (4704-2)
*
* MODETAB FOR 4700, 3270 EMULATION (SCREEN=1920)
*****
                PRINT NOGEN
MT4700  MODETAB
S3270   MODEENT LOGMODE=S3270,                                          X
                FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',              X
                SECPROT=X'90',COMPROT=X'3080',RUSIZES=X'88F8',        X
                PSERVIC=X'020000000000185018507F00'
DSILGMOD MODEENT LOGMODE=DSILGMOD,                                       X
                FMPROF=X'03',TSPROF=X'03',PRIPROT=X'B1',              X
                SECPROT=X'A0',COMPROT=X'3080',RUSIZES=X'88F8',        X
                PSERVIC=X'020000000000185018507F00'
MODEEND
END

```

5520 MT5520

```

                PRINT NOGEN
*****
* MODE TABLE FOR 5520
*****
                PRINT NOGEN
MT5520  MODETAB
T3278   MODEENT LOGMODE=T3278,                                          X
                FMPROF=X'03',TSPROF=X'03',PRIPROT=X'A1',              X
                SECPROT=X'A0',COMPROT=X'3080',RUSIZES=X'8787',        X
                PSERVIC=X'020000000000000000000000'
DSILGMOD MODEENT LOGMODE=DSILGMOD,                                       X
                FMPROF=X'03',TSPROF=X'03',PRIPROT=X'A1',              X
                SECPROT=X'A0',COMPROT=X'3080',RUSIZES=X'8787',        X
                PSERVIC=X'020000000000000000000000'
CICS    MODEENT LOGMODE=CICS,                                           X
                FMPROF=X'04',TSPROF=X'04',PRIPROT=X'B1',              X
                SECPROT=X'B0',COMPROT=X'7080',RUSIZES=X'8585',        X
                SSNDPAC=X'03',PSNDPAC=X'03',SRCVPAC=X'03',            X
                PSERVIC=X'000000000000000000000000'
MODEEND
END

```

6580 MT6580

PRINT NOGEN

* MT6580 *

* This table contains entries for sessions involving Displaywriter. *

PRINT NOGEN

MT6580 MODETAB

* The following entries are for Displaywriter operating S/S through *
* NCP/NTO to TSO or VCNA/CMS. *

TSO MODEENT LOGMODE=TSO, DW as TWX or 2741 to TSO via NCP/NTO X
FMPROF=X'03',TSPROF=X'03', X
PRIPROT=X'B1',SECPROT=X'A0',COMPROT=X'3040', X
RUSIZES=X'8585', X
PSNDPAC=X'02',SRCVPAC=X'01',SSNDPAC=X'00'

VCNATWX MODEENT LOGMODE=VCNATWX, DW as TWX to CMS via NCP/NTO/VCNA X
FMPROF=X'03',TSPROF=X'03', X
PRIPROT=X'B1',SECPROT=X'90',COMPROT=X'3080', X
RUSIZES=X'8585', X
PSNDPAC=X'02',SRCVPAC=X'01',SSNDPAC=X'00', X
PSERVIC=X'010000000000000000000000'

VCNA2741 MODEENT LOGMODE=VCNA2741, DW as 2741 to CMS via NCP/NTO/VCNA X
FMPROF=X'03',TSPROF=X'03', X
PRIPROT=X'B1',SECPROT=X'90',COMPROT=X'3080', X
RUSIZES=X'8585', X
PSNDPAC=X'02',SRCVPAC=X'01',SSNDPAC=X'00', X
PSERVIC=X'014000000000000000000000'

* The following entries are for sessions where the host application *
* (usually CICS, IMS or JES2) generates the bind values internally. *
* In such cases these entries may be used to provide pacing values. *
* Used here for Displaywriter EDD sessions with CICS. *

PC000000 MODEENT LOGMODE=PC000000, X
PSNDPAC=X'00',SRCVPAC=X'00',SSNDPAC=X'00'

PC020100 MODEENT LOGMODE=PC020100, X
PSNDPAC=X'02',SRCVPAC=X'01',SSNDPAC=X'00'

PC020107 MODEENT LOGMODE=PC020107, X
PSNDPAC=X'02',SRCVPAC=X'01',SSNDPAC=X'07'

PC060300 MODEENT LOGMODE=PC060300, X
PSNDPAC=X'06',SRCVPAC=X'03',SSNDPAC=X'00'

PC060307 MODEENT LOGMODE=PC060307, X
PSNDPAC=X'06',SRCVPAC=X'03',SSNDPAC=X'07'

MODEEND
END

6670 MT6670

PRINT NOGEN

* MT6670 *

* 6670 COPIER *

```

*****
MT6670  MODETAB
IDWS6670 MODEENT LOGMODE=IDWS6670,
                    FMPROF=X'07', TSPROF=X'07',
                    PRIPROT=X'B1', SECPROT=X'B0', COMPROT=X'5081',
                    RUSIZES=X'8585',
                    PSNDPAC=X'03', SRCVPAC=X'02', SSNDPAC=X'02',
                    PSERVIC=X'04A840A000A840A0000000000'
                    MODEEND
                    END

```

8100 MODEDPPX

```

MODEDPPX MODETAB
DSC      MODEENT LOGMODE=DS1920,
                    FMPROF=X'03',
                    TSPROF=X'03',
                    PRIPROT=X'B1',
                    SECPROT=X'B0',
                    COMPROT=X'3080',
                    RUSIZES=X'85C7',
                    PSERVIC=X'020000000000185000007E00'
DSILGMOD MODEENT LOGMODE=DSILGMOD,
                    FMPROF=X'03',
                    TSPROF=X'03',
                    PRIPROT=X'B1',
                    SECPROT=X'90',
                    COMPROT=X'3080',
                    RUSIZES=X'8586',
                    PSERVIC=X'020000000000185000007E00'
* DSX - HDT SESSION PARAMETERS
          MODEENT LOGMODE=MODHDTPX,
                    FMPROF=X'03',
                    TSPROF=X'04',
                    PRIPROT=X'B0',
                    SECPROT=X'B0',
                    COMPROT=X'4000',
                    RUSIZES=X'8585'
* DSX - HDT SESSION PARAMETERS
          MODEENT LOGMODE=MODHDT07,
                    FMPROF=X'03',
                    TSPROF=X'04',
                    PRIPROT=X'B0',
                    SECPROT=X'B0',
                    COMPROT=X'4000',
                    PSNDPAC=07,
                    SRCVPAC=07,
                    SSNDPAC=07,
                    RUSIZES=X'8585'
* DSX - HDT SESSION PARAMETERS
          MODEENT LOGMODE=MODHDT47,
                    FMPROF=X'03',
                    TSPROF=X'04',
                    PRIPROT=X'B0',
                    SECPROT=X'B0',
                    COMPROT=X'4000',
                    PSNDPAC=07,
                    SRCVPAC=07,
                    SSNDPAC=07,
                    RUSIZES=X'8989'
* DSX - HDT SESSION PARAMETERS
          MODEENT LOGMODE=MODHDT15,
                    FMPROF=X'03',
                    TSPROF=X'04',
                    PRIPROT=X'B0',
                    SECPROT=X'B0',
                    COMPROT=X'4000',
                    PSNDPAC=15,
                    SRCVPAC=15,
                    SSNDPAC=15,

```



```

RUSIZES=X'8585'
* TEST1
MODEENT LOGMODE=RJE81000,FMPROF=X'03',TSPROF=X'03', C
PRIPROT=X'A3',SECPRROT=X'A3',COMPROT=X'7080', C
RUSIZES=X'8585',PSERVIC=X'01216000F100800000010044'
* TEST2
PACING 3,1
MODEENT LOGMODE=RJE81003,FMPROF=X'03',TSPROF=X'03', C
PRIPROT=X'A3',SECPRROT=X'A3',COMPROT=X'7080', C
PSNDPAC=3,SRCPAC=3, C
RUSIZES=X'8585',PSERVIC=X'01216000F100800000010044'
* TEST3
PACING 7,1
MODEENT LOGMODE=RJE81007,FMPROF=X'03',TSPROF=X'03', C
PRIPROT=X'A3',SECPRROT=X'A3',COMPROT=X'7080', C
PSNDPAC=7,SRCPAC=7, C
RUSIZES=X'8585',PSERVIC=X'01216000F100800000010044'
* TEST
MODEENT LOGMODE=RJE8100A,FMPROF=X'03',TSPROF=X'03', C
PRIPROT=X'A3',SECPRROT=X'A3',COMPROT=X'7080', C
RUSIZES=X'8686',PSERVIC=X'01216000F100800000010044'
* PACING =3
MODEENT LOGMODE=RJE8100B,FMPROF=X'03',TSPROF=X'03', C
PRIPROT=X'A3',SECPRROT=X'A3',COMPROT=X'7080', C
PSNDPAC=3,SRCPAC=3, C
RUSIZES=X'8686',PSERVIC=X'01216000F100800000010044'
* PACING =7
MODEENT LOGMODE=RJE8100C,FMPROF=X'03',TSPROF=X'03', C
PRIPROT=X'A3',SECPRROT=X'A3',COMPROT=X'7080', C
PSNDPAC=7,SRCPAC=7,SSNDPAC=7, C
RUSIZES=X'8686',PSERVIC=X'01216000F100902000810044'
* PACING =6,1
MODEENT LOGMODE=RJE81006,FMPROF=X'03',TSPROF=X'03', C
PRIPROT=X'A3',SECPRROT=X'A3',COMPROT=X'7080', C
PSNDPAC=6,SRCPAC=6, C
RUSIZES=X'8585',PSERVIC=X'01216000F100800000010044'
* PACING =2,1
MODEENT LOGMODE=RJE81002,FMPROF=X'03',TSPROF=X'03', C
PRIPROT=X'A3',SECPRROT=X'A3',COMPROT=X'7080', C
PSNDPAC=2,SRCPAC=2, C
RUSIZES=X'8585',PSERVIC=X'01216000F100800000010044'
MODEENT LOGMODE=RJE3790A,FMPROF=X'03',TSPROF=X'03', C
PRIPROT=X'A3',SECPRROT=X'A3',COMPROT=X'7080', C
RUSIZES=X'8585',PSERVIC=X'0110600F10080800000010040'
MODEENT LOGMODE=RJE3790B,FMPROF=X'03',TSPROF=X'03', C
PRIPROT=X'A3',SECPRROT=X'A1',COMPROT=X'7080', C
RUSIZES=X'8585',PSERVIC=X'01106000F1008080000010040'
PS8586 MODEENT LOGMODE=PS8586,FMPROF=X'03',TSPROF=X'03', C
PRIPROT=X'B1',SECPRROT=X'B0',COMPROT=X'3080', C
RUSIZES=X'8586',PSERVIC=X'020000000000185000000200'
PS8587 MODEENT LOGMODE=PS8587,FMPROF=X'03',TSPROF=X'03', C
PRIPROT=X'B1',SECPRROT=X'B0',COMPROT=X'3080', C
RUSIZES=X'8587',PSERVIC=X'020000000000185000000200'
PS85C7 MODEENT LOGMODE=PS85C7,FMPROF=X'03',TSPROF=X'03', C
PRIPROT=X'B1',SECPRROT=X'B0',COMPROT=X'3080', C
RUSIZES=X'85C7',PSERVIC=X'020000000000185000000200'
PA18585 MODEENT LOGMODE=PA18585,FMPROF=X'03',TSPROF=X'03', C
PSNDPAC=1,SRCPAC=1, C
PRIPROT=X'B1',SECPRROT=X'B0',COMPROT=X'3080', C
RUSIZES=X'8585',PSERVIC=X'020000000000185000000200'
PA68585 MODEENT LOGMODE=PA68585,FMPROF=X'03',TSPROF=X'03', C
PSNDPAC=6,SRCPAC=6, C
PRIPROT=X'B1',SECPRROT=X'B0',COMPROT=X'3080', C
RUSIZES=X'8585',PSERVIC=X'020000000000185000000200'
PA18586 MODEENT LOGMODE=PA18586,FMPROF=X'03',TSPROF=X'03', C
PSNDPAC=1,SRCPAC=1, C
PRIPROT=X'B1',SECPRROT=X'B0',COMPROT=X'3080', C
RUSIZES=X'8586',PSERVIC=X'020000000000185000000200'
PA68586 MODEENT LOGMODE=PA68586,FMPROF=X'03',TSPROF=X'03', C
PSNDPAC=6,SRCPAC=6, C
PRIPROT=X'B1',SECPRROT=X'B0',COMPROT=X'3080', C
RUSIZES=X'8586',PSERVIC=X'020000000000185000000200'
PA18587 MODEENT LOGMODE=PA18587,FMPROF=X'03',TSPROF=X'03', C
PSNDPAC=1,SRCPAC=1, C
PRIPROT=X'B1',SECPRROT=X'B0',COMPROT=X'3080', C
RUSIZES=X'8587',PSERVIC=X'020000000000185000000200'
PA68587 MODEENT LOGMODE=PA68587,FMPROF=X'03',TSPROF=X'03', C

```

```

        PSNDPAC=6, SRCVPAC=6,
        PRIPROT=X'B1', SECPROT=X'B0', COMPROT=X'3080',
        RUSIZES=X'8587', PSERVIC=X'020000000000185000000200'
PA185C7  MODEENT LOGMODE=PA185C7, FMPROF=X'03', TSPROF=X'03',
        PSNDPAC=1, SRCVPAC=1,
        PRIPROT=X'B1', SECPROT=X'B0', COMPROT=X'3080',
        RUSIZES=X'85C7', PSERVIC=X'020000000000185000000200'
PA685C7  MODEENT LOGMODE=PA685C7, FMPROF=X'03', TSPROF=X'03',
        PSNDPAC=6,
        PRIPROT=X'B1', SECPROT=X'B0', COMPROT=X'3080',
        RUSIZES=X'85C7', PSERVIC=X'020000000000185000000200'
HPS1920  MODEENT LOGMODE=PS1920,
        FMPROF=X'03',
        TSPROF=X'03',
        PRIPROT=X'B1',
        SECPROT=X'B0',
        COMPROT=X'3080',
        RUSIZES=X'85C7',
        PSERVIC=X'0200000000001850000007E00'
HPS2560  MODEENT LOGMODE=PS2560,
        FMPROF=X'03',
        TSPROF=X'03',
        PRIPROT=X'B1',
        SECPROT=X'B0',
        COMPROT=X'3080',
        RUSIZES=X'85C7',
        PSERVIC=X'0200000000002050000007E00'
HPS3440  MODEENT LOGMODE=PS3440,
        FMPROF=X'03',
        TSPROF=X'03',
        PRIPROT=X'B1',
        SECPROT=X'B0',
        COMPROT=X'3080',
        RUSIZES=X'85C7',
        PSERVIC=X'0200000000002B50000007E00'
* THE GR-ENTRIES ARE EQUAL TO THE PS-ENTRIES WITH ADDITION OF
* THE QUERY-BIT IN SECD BYTE OF PSERVICE
HGR1920  MODEENT LOGMODE=GR1920,
        FMPROF=X'03',
        TSPROF=X'03',
        PRIPROT=X'B1',
        SECPROT=X'B0',
        COMPROT=X'3080',
        RUSIZES=X'85C7',
        PSERVIC=X'0280000000001850000007E00'
HGR2560  MODEENT LOGMODE=GR2560,
        FMPROF=X'03',
        TSPROF=X'03',
        PRIPROT=X'B1',
        SECPROT=X'B0',
        COMPROT=X'3080',
        RUSIZES=X'85C7',
        PSERVIC=X'0280000000002050000007E00'
HGR3440  MODEENT LOGMODE=GR3440,
        FMPROF=X'03',
        TSPROF=X'03',
        PRIPROT=X'B1',
        SECPROT=X'B0',
        COMPROT=X'3080',
        RUSIZES=X'85C7',
        PSERVIC=X'0280000000002B50000007E00'
HPSIMS   MODEENT LOGMODE=HPSIMS, APPL TO APPL BIND USED BY HPS/IMS
        FMPROF=X'04', FUNCTION MANAGEMENT PROFILE
        TSPROF=X'04', TRANSMISSION SERVICES PROFILE
        PRIPROT=X'B1', PRIMARY PROTOCOL
        SECPROT=X'B1', SECONDARY PROTOCOL
        COMPROT=X'7080', COMMON PROTOCOL
        SRCVPAC=X'00', SLU RECEIVE PACING COUNT
        SSNDPAC=X'00', SLU SEND PACING COUNT
        PSNDPAC=X'00', PRIMARY SEND PACING COUNT
        RUSIZES=X'0000', OVERRIDDEN BY IMS WITH COMM & OUTBUF
        PSERVIC=X'000000000000000000000000' LU SERVICES PROF
HPSCICS  MODEENT LOGMODE=HPSCICS, APPL TO APPL BIND USED BY HPS/CICS
        FMPROF=X'04', FUNCTION MANAGEMENT PROFILE
        TSPROF=X'04', TRANSMISSION SERVICES PROFILE

```

```

PRIPROT=X'B1', PRIMARY PROTOCOL C
SECPROT=X'B0', SECONDARY PROTOCOL C
COMPROT=X'7080', COMMON PROTOCOL C
SRCVPAC=X'00', SLU RECEIVE PACING COUNT C
SSNDPAC=X'00', SLU SEND PACING COUNT C
PSNDPAC=X'00', PRIMARY SEND PACING COUNT C
RUSIZES=X'8585', PRI RU SIZE 256, SEC RU SIZE 256 C
PSERVIC=X'0000000000000000000000000000' LU SERVICES PROF C
HPSCICS1 MODEENT LOGMODE=HPSCICS1, APPL TO APPL BIND USED BY HPS/CICS C
FMPROF=X'04', FUNCTION MANAGEMENT PROFILE C
TSPROF=X'04', TRANSMISSION SERVICES PROFILE C
PRIPROT=X'B1', PRIMARY PROTOCOL C
SECPROT=X'B0', SECONDARY PROTOCOL C
COMPROT=X'7080', COMMON PROTOCOL C
SRCVPAC=X'00', SLU RECEIVE PACING COUNT C
SSNDPAC=X'00', SLU SEND PACING COUNT C
PSNDPAC=X'00', PRIMARY SEND PACING COUNT C
RUSIZES=X'8685', PRI RU SIZE 256, SEC RU SIZE 256 C
PSERVIC=X'0000000000000000000000000000' LU SERVICES PROF C
HPSCICS2 MODEENT LOGMODE=HPSCICS2, APPL TO APPL BIND USED BY HPS/CICS C
FMPROF=X'04', FUNCTION MANAGEMENT PROFILE C
TSPROF=X'04', TRANSMISSION SERVICES PROFILE C
PRIPROT=X'B1', PRIMARY PROTOCOL C
SECPROT=X'B0', SECONDARY PROTOCOL C
COMPROT=X'7080', COMMON PROTOCOL C
SRCVPAC=X'00', SLU RECEIVE PACING COUNT C
SSNDPAC=X'00', SLU SEND PACING COUNT C
PSNDPAC=X'00', PRIMARY SEND PACING COUNT C
RUSIZES=X'8586', PRI RU SIZE 256, SEC RU SIZE 256 C
PSERVIC=X'0000000000000000000000000000' LU SERVICES PROF C
HPSCICS3 MODEENT LOGMODE=HPSCICS3, APPL TO APPL BIND USED BY HPS/CICS C
FMPROF=X'04', FUNCTION MANAGEMENT PROFILE C
TSPROF=X'04', TRANSMISSION SERVICES PROFILE C
PRIPROT=X'B1', PRIMARY PROTOCOL C
SECPROT=X'B0', SECONDARY PROTOCOL C
COMPROT=X'7080', COMMON PROTOCOL C
SRCVPAC=X'00', SLU RECEIVE PACING COUNT C
SSNDPAC=X'00', SLU SEND PACING COUNT C
PSNDPAC=X'00', PRIMARY SEND PACING COUNT C
RUSIZES=X'F8C7', PRI RU SIZE 256, SEC RU SIZE 256 C
PSERVIC=X'0000000000000000000000000000' LU SERVICES PROF C
HPSCICS4 MODEENT LOGMODE=HPSCICS4, APPL TO APPL BIND USED BY HPS/CICS C
FMPROF=X'04', FUNCTION MANAGEMENT PROFILE C
TSPROF=X'04', TRANSMISSION SERVICES PROFILE C
PRIPROT=X'B1', PRIMARY PROTOCOL C
SECPROT=X'B0', SECONDARY PROTOCOL C
COMPROT=X'7080', COMMON PROTOCOL C
SRCVPAC=X'00', SLU RECEIVE PACING COUNT C
SSNDPAC=X'00', SLU SEND PACING COUNT C
PSNDPAC=X'00', PRIMARY SEND PACING COUNT C
RUSIZES=X'F8F8', PRI RU SIZE 256, SEC RU SIZE 256 C
PSERVIC=X'0000000000000000000000000000' LU SERVICES PROF C
T5280 MODEENT LOGMODE=T5280, APPL TO APPL BIND USED BY RJE/5280 C
FMPROF=X'03', FUNCTION MANAGEMENT PROFILE C
TSPROF=X'03', TRANSMISSION SERVICES PROFILE C
PRIPROT=X'A3', PRIMARY PROTOCOL C
SECPROT=X'A3', SECONDARY PROTOCOL C
COMPROT=X'7080', COMMON PROTOCOL C
SRCVPAC=X'01', SLU RECEIVE PACING COUNT C
SSNDPAC=X'01', SLU SEND PACING COUNT C
RUSIZES=X'8585', C
PSERVIC=X'01100000F100C10000010040' LU SERVICES PROF C
TS5280 MODEENT LOGMODE=TS5280, SWITCHED LINEBIND USED BY RJE/5280 C
FMPROF=X'03', FUNCTION MANAGEMENT PROFILE C
TSPROF=X'03', TRANSMISSION SERVICES PROFILE C
PRIPROT=X'A3', PRIMARY PROTOCOL C
SECPROT=X'A3', SECONDARY PROTOCOL C
COMPROT=X'7080', COMMON PROTOCOL C
SRCVPAC=X'01', SLU RECEIVE PACING COUNT C
SSNDPAC=X'01', SLU SEND PACING COUNT C
RUSIZES=X'8585', C
PSERVIC=X'01100000F100C00000010040' LU SERVICES PROF C
EM3270 MODEENT LOGMODE=EM3270, X
FMPROF=X'03', X
TSPROF=X'03', X

```

```

                PRIPROT=X'B1',
                SECPROT=X'90',
                COMPROT=X'3080',
                RUSIZES=X'8585',
                PSERVIC=X'02000000000000000000000000200'
EM3270P  MODEENT LOGMODE=EM3270P,
                FMPROF=X'03',
                TSPROF=X'03',
                PRIPROT=X'B1',
                SECPROT=X'90',
                COMPROT=X'3080',
                RUSIZES=X'8585',
                PSERVIC=X'03000000000000000000000000000'
EM3270N  MODEENT LOGMODE=EM3270N,
                FMPROF=X'03',
                TSPROF=X'03',
                PRIPROT=X'B1',
                SECPROT=X'90',
                COMPROT=X'3080',
                RUSIZES=X'85C7',
                PSERVIC=X'02000000000000000000000000200'
SERIES2  MODEENT LOGMODE=SER2DSC,
                FMPROF=X'03',
                TSPROF=X'03',
                PRIPROT=X'B1',
                SECPROT=X'B0',
                COMPROT=X'3080',
                RUSIZES=X'8585',
                SRCVPAC=X'00',
                PSNDPAC=X'00',
                SSNDPAC=X'00',
                PSERVIC=X'02000000000000000000000000200'
MODEEND
END

```

8100 MTDPCX

```

                PRINT NOGEN
*****
* MTDPCX
*
* This table contains entries for sessions involving DPCX/DOSF
* communication functions other than 3270 DSC, which is supported by
* the two tables MTCXDPA and MTCXPCA.
*
*****
MTDPCX  MODETAB
*
*****
* The following entry will work with SSS, SYSINFOREF and DSX.
* Despite statements to the contrary in various manuals, it need not
* be the first or only entry in the table.
*****
T1BDPCX  MODEENT LOGMODE=T1BDPCX,
                FMPROF=X'03',TSPROF=X'03',
                PRIPROT=X'A0',SECPROT=X'A0',
                SRCVPAC=X'03',PSNDPAC=X'06',SSNDPAC=X'07'
*
*****
* The following entry is for VSE/POWER.
*****
POWRDPCX  MODEENT LOGMODE=POWRDPCX,
                FMPROF=X'03',TSPROF=X'03',
                PRIPROT=X'A3',SECPROT=X'A1',COMPROT=X'7080',
                RUSIZES=X'8585',
                PSNDPAC=X'06',SRCVPAC=X'03',SSNDPAC=X'07',
                PSERVIC=X'01106000F100C00000010040'
*
*****
* The following entries are for sessions where the host application
* (usually CICS, IMS or JES2) generates the bind values internally.
*

```

```

* In such cases these entries may be used to provide pacing values.
* For example:
*   PC000000 is suitable for HCF sessions with DPCX, to ensure that
*   no pacing is used. Pacing is not needed on these
*   sessions, and suppressing it reduces overhead.
*   PC020107 is suitable for DISOSS sessions with CICS.
*   PC060300 is suitable for DIF, or for DISOSS communications via
*   DTF, since DTF requires that inbound pacing (SSNDPAC)
*   be zero.
*   PC060307 is suitable for RJE sessions with JES2.
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
PC000000 MODEENT LOGMODE=PC000000,
          PSNDPAC=X'00',SRCVPAC=X'00',SSNDPAC=X'00'
*
PC020107 MODEENT LOGMODE=PC020107,
          PSNDPAC=X'02',SRCVPAC=X'01',SSNDPAC=X'07'
*
PC060300 MODEENT LOGMODE=PC060300,
          PSNDPAC=X'06',SRCVPAC=X'03',SSNDPAC=X'00'
*
PC060307 MODEENT LOGMODE=PC060307,
          PSNDPAC=X'06',SRCVPAC=X'03',SSNDPAC=X'07'
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
MODEEND
END

```

8100 MTCXDPA

```

PRINT NOGEN
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
* MTCXDPA
*
* Mode table to allow 3277-2s attached to 8100/DPCX DPA to use host
* applications via DSC.
* DPCX requires that DPA-attached devices receive a BIND specifying
* PSERVIC=X'020000000000000000000000200' for 3277-2, or
* PSERVIC=X'020000000000000000000000100' for 3277-1.
* This will not support the specification of larger screen sizes,
* colour, programmed symbols etc. Devices needing these functions are
* all loop- or link-attached, and use mode table MTCXDAL.
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
MTCXDPA MODETAB
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
* The following entry is specified to VTAM by DPCX as a default.
* It will work with most host subsystems, including
* TSO, CICS, IMS, VCNA, HCF, NPA.
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
EMUDPCX MODEENT LOGMODE=EMUDPCX,
          FMPROF=X'03',TSPROF=X'03',
          PRIPROT=X'B1',SECPROT=X'B0',COMPROT=X'3080',
          RUSIZES=X'85C7',
          PSERVIC=X'0200000000000000000000200'
*
TEST1 MODEENT LOGMODE=TEST1,
        FMPROF=X'03',TSPROF=X'03',
        PRIPROT=X'B1',SECPROT=X'B0',COMPROT=X'3080',
        RUSIZES=X'85C7',
        PSERVIC=X'020000000000185000007E00'
*
TEST2 MODEENT LOGMODE=TEST2,
        FMPROF=X'03',TSPROF=X'03',
        PRIPROT=X'B1',SECPROT=X'B0',COMPROT=X'3080',
        RUSIZES=X'85C7',
        PSERVIC=X'020000000000185018507F00'
*

```

```

*****
* The following entry is required by NCCF. The DPCX user need not *
* specify it at DSC logon time: NCCF will find it automatically. *
*****
DSILGMOD MODEENT LOGMODE=DSILGMOD, NCCF REQUIRES THIS NAME. X
      FMPROF=X'03',TSPROF=X'03', X
      PRIPROT=X'B1',SECPROT=X'90',COMPROT=X'3080', X
      RUSIZES=X'85C7', X
      PSERVIC=X'02000000000000000000200' X
*
*****
*
MODEEND
END

```

8100 MTCXPCA

```

PRINT NOGEN
*****
* MTCXPCA. *
* *
* Mode table to allow link- and loop-attached devices to use host *
* applications via DSC or Bulk Print. *
* DPA-attached devices use mode table MTCXDPA. *
* *
*****
MTCXPCA MODETAB
*
*****
* This entry is for Model 2 (24x80) screens. *
* EMUDPCX is the name that DPCX sends to VTAM as a default, if the *
* logon request does not name a mode entry. *
* It will work with most host subsystems, including *
* TSO, CICS, IMS, VCNA, HCF, NPA *
*****
EMUDPCX MODEENT LOGMODE=EMUDPCX, X
      FMPROF=X'03',TSPROF=X'03', X
      PRIPROT=X'B1',SECPROT=X'B0',COMPROT=X'3080', X
      RUSIZES=X'85C7', X
      PSERVIC=X'02000000000018500007E00' X
*
*****
* This entry is for Model 3 (32x80) screens. Otherwise identical *
* to EMUDPCX. *
*****
EMUDPCX3 MODEENT LOGMODE=EMUDPCX3, X
      FMPROF=X'03',TSPROF=X'03', X
      PRIPROT=X'B1',SECPROT=X'B0',COMPROT=X'3080', X
      RUSIZES=X'85C7', X
      PSERVIC=X'020000000000185020507F00' X
*
*****
* This entry is for Model 4 (43x80) screens. Otherwise identical *
* to EMUDPCX. *
*****
EMUDPCX4 MODEENT LOGMODE=EMUDPCX4, X
      FMPROF=X'03',TSPROF=X'03', X
      PRIPROT=X'B1',SECPROT=X'B0',COMPROT=X'3080', X
      RUSIZES=X'85C7', X
      PSERVIC=X'02000000000018502B507F00' X
*
*****
* The following entry is required by NCCF. The DPCX user need not *
* specify it at DSC logon time: NCCF will find it automatically. *
* This supports only 24X80 screens. *
*****
DSILGMOD MODEENT LOGMODE=DSILGMOD, X
      FMPROF=X'03',TSPROF=X'03', X
      PRIPROT=X'B1',SECPROT=X'90',COMPROT=X'3080', X
      RUSIZES=X'85C7', X

```

PSERVIC=X'020000000000185000007E00'

```

*
*****
* The following entry is for sessions between an LU1 (SCS) 3287 and a *
* host application (typically CICS or IMS) which generates the BIND *
* parameters internally. This entry ensures that PACING (SRCVPAC) is *
* set to 1, which is required by the 3287. *
*****
*
PC020100 MODEENT LOGMODE=PC020100, X
                PSNDPAC=X'02',SRCVPAC=X'01',SSNDPAC=X'00'
*
*****
*
MODEEND
END

```

8100 MTPC

PRINT NOGEN

```

*****
* DOC: THIS JOB CONTAINS STEPS TO ASSEMBLE AND LINKEDIT THE *
* TABLES REQUIRED BY VTAM FOR 8100/DPPX *
* MTPC *
* *
* THIS IS A COPY OF MODEDPPX WITH ADDITIONAL ENTRIES FOR THE PC *
* AND 5280 *
* *
* STEP TO ASSEMBLE AND LINKEDIT THE BATCH MODE TABLE (MTPC) *
* WHICH IS REQUIRED FOR DPPX/HDT. THE LINKED TABLE IS *
* PLACED INTO 'SA11.VTAMLIB' *
*****

```

```

MTPC   MODETAB
LU2    MODEENT LOGMODE=DSILGMOD, C
        FMPROF=X'03', C
        TSPROF=X'03', C
        PRIPROT=X'B1', C
        SECPROT=X'90', C
        COMPROT=X'3080', C
        RUSIZES=X'8586', C
        PSERVIC=X'020000000000185000007E00'
B8586  MODEENT LOGMODE=PS8586,FMPROF=X'03',TSPROF=X'03', C
        PRIPROT=X'B1',SECPROT=X'B0',COMPROT=X'3080', C
        RUSIZES=X'8586',PSERVIC=X'020000000000185000000200'
B8587  MODEENT LOGMODE=PS8587,FMPROF=X'03',TSPROF=X'03', C
        PRIPROT=X'B1',SECPROT=X'B0',COMPROT=X'3080', C
        RUSIZES=X'8587',PSERVIC=X'020000000000185000000200'
B85C7  MODEENT LOGMODE=PS85C7,FMPROF=X'03',TSPROF=X'03', C
        PRIPROT=X'B1',SECPROT=X'B0',COMPROT=X'3080', C
        RUSIZES=X'85C7',PSERVIC=X'020000000000185000000200'
PA18587 MODEENT LOGMODE=PA18587,FMPROF=X'03',TSPROF=X'03', C
        PSNDPAC=1,SRCVPAC=1, C
        PRIPROT=X'B1',SECPROT=X'B0',COMPROT=X'3080', C
        RUSIZES=X'8587',PSERVIC=X'020000000000185000000200'
PA18585 MODEENT LOGMODE=PA18585,FMPROF=X'03',TSPROF=X'03', C
        PSNDPAC=1,SRCVPAC=1, C
        PRIPROT=X'B1',SECPROT=X'B0',COMPROT=X'3080', C
        RUSIZES=X'8585',PSERVIC=X'020000000000185000000200'
PA68587 MODEENT LOGMODE=PA68587,FMPROF=X'03',TSPROF=X'03', C
        PSNDPAC=6,SRCVPAC=6, C
        PRIPROT=X'B1',SECPROT=X'B0',COMPROT=X'3080', C
        RUSIZES=X'8587',PSERVIC=X'020000000000185000000200'
PA185C7 MODEENT LOGMODE=PA185C7,FMPROF=X'03',TSPROF=X'03', C
        PSNDPAC=1,SRCVPAC=1, C
        PRIPROT=X'B1',SECPROT=X'B0',COMPROT=X'3080', C
        RUSIZES=X'85C7',PSERVIC=X'020000000000185000000200'
PA685C7 MODEENT LOGMODE=PA685C7,FMPROF=X'03',TSPROF=X'03', C
        PSNDPAC=6,SRCVPAC=6, C
        PRIPROT=X'B1',SECPROT=X'B0',COMPROT=X'3080', C
        RUSIZES=X'85C7',PSERVIC=X'020000000000185000000200'
HPS1920 MODEENT LOGMODE=PS1920, C

```

```

        FMPROF=X'03',
        TSPROF=X'03',
        PRIPROT=X'B1',
        SECPROT=X'B0',
        COMPROT=X'3080',
        RUSIZES=X'85C7',
        PSERVIC=X'020000000000185000007E00'
HPS2560  MODEENT LOGMODE=PS2560,
        FMPROF=X'03',
        TSPROF=X'03',
        PRIPROT=X'B1',
        SECPROT=X'B0',
        COMPROT=X'3080',
        RUSIZES=X'85C7',
        PSERVIC=X'020000000000205000007E00'
HPS3440  MODEENT LOGMODE=PS3440,
        FMPROF=X'03',
        TSPROF=X'03',
        PRIPROT=X'B1',
        SECPROT=X'B0',
        COMPROT=X'3080',
        RUSIZES=X'85C7',
        PSERVIC=X'0200000000002B5000007E00'
* THE GR-ENTRIES ARE EQUAL TO THE PS-ENTRIES WITH ADDITION OF
* THE QUERY-BIT IN SECND BYTE OF PSERVICE
HGR1920  MODEENT LOGMODE=GR1920,
        FMPROF=X'03',
        TSPROF=X'03',
        PRIPROT=X'B1',
        SECPROT=X'B0',
        COMPROT=X'3080',
        RUSIZES=X'85C7',
        PSERVIC=X'028000000000185000007E00'
HGR2560  MODEENT LOGMODE=GR2560,
        FMPROF=X'03',
        TSPROF=X'03',
        PRIPROT=X'B1',
        SECPROT=X'B0',
        COMPROT=X'3080',
        RUSIZES=X'85C7',
        PSERVIC=X'028000000000205000007E00'
HGR3440  MODEENT LOGMODE=GR3440,
        FMPROF=X'03',
        TSPROF=X'03',
        PRIPROT=X'B1',
        SECPROT=X'B0',
        COMPROT=X'3080',
        RUSIZES=X'85C7',
        PSERVIC=X'0280000000002B5000007E00'
HPSIMS   MODEENT LOGMODE=HPSIMS, APPL TO APPL BIND USED BY HPS/IMS
        FMPROF=X'04', FUNCTION MANAGEMENT PROFILE
        TSPROF=X'04', TRANSMISSION SERVICES PROFILE
        PRIPROT=X'B1', PRIMARY PROTOCOL
        SECPROT=X'B1', SECONDARY PROTOCOL
        COMPROT=X'7080', COMMON PROTOCOL
        SRCVPAC=X'00', SLU RECEIVE PACING COUNT
        SSNDPAC=X'00', SLU SEND PACING COUNT
        PSNDPAC=X'00', PRIMARY SEND PACING COUNT
        RUSIZES=X'0000', OVERRIDDEN BY IMS WITH COMM & OUTBUF
        PSERVIC=X'000000000000000000000000' LU SERVICES PROF
HPSCICS  MODEENT LOGMODE=HPSCICS, APPL TO APPL BIND USED BY HPS/CICS
        FMPROF=X'04', FUNCTION MANAGEMENT PROFILE
        TSPROF=X'04', TRANSMISSION SERVICES PROFILE
        PRIPROT=X'B1', PRIMARY PROTOCOL
        SECPROT=X'B0', SECONDARY PROTOCOL
        COMPROT=X'7080', COMMON PROTOCOL
        SRCVPAC=X'00', SLU RECEIVE PACING COUNT
        SSNDPAC=X'00', SLU SEND PACING COUNT
        PSNDPAC=X'00', PRIMARY SEND PACING COUNT
        RUSIZES=X'8585', PRI RU SIZE 256, SEC RU SIZE 256
        PSERVIC=X'000000000000000000000000' LU SERVICES PROF
HPSCICS1 MODEENT LOGMODE=HPSCICS1, APPL TO APPL BIND USED BY HPS/CICS
        FMPROF=X'04', FUNCTION MANAGEMENT PROFILE
        TSPROF=X'04', TRANSMISSION SERVICES PROFILE
        PRIPROT=X'B1', PRIMARY PROTOCOL

```



```

SECPROT=X'B0', SECONDARY PROTOCOL C
COMPROT=X'7080', COMMON PROTOCOL C
SRCVPAC=X'00', SLU RECEIVE PACING COUNT C
SSNDPAC=X'00', SLU SEND PACING COUNT C
PSNDPAC=X'00', PRIMARY SEND PACING COUNT C
RUSIZES=X'8685', PRI RU SIZE 256, SEC RU SIZE 256 C
PSERVIC=X'00000000000000000000000000000000' LU SERVICES PROF
HPSCICS2 MODEENT LOGMODE=HPSCICS2, APPL TO APPL BIND USED BY HPS/CICS C
FMPROF=X'04', FUNCTION MANAGEMENT PROFILE C
TSPROF=X'04', TRANSMISSION SERVICES PROFILE C
PRIPROT=X'B1', PRIMARY PROTOCOL C
SECPROT=X'B0', SECONDARY PROTOCOL C
COMPROT=X'7080', COMMON PROTOCOL C
SRCVPAC=X'00', SLU RECEIVE PACING COUNT C
SSNDPAC=X'00', SLU SEND PACING COUNT C
PSNDPAC=X'00', PRIMARY SEND PACING COUNT C
RUSIZES=X'8586', PRI RU SIZE 256, SEC RU SIZE 256 C
PSERVIC=X'00000000000000000000000000000000' LU SERVICES PROF
HPSCICS3 MODEENT LOGMODE=HPSCICS3, APPL TO APPL BIND USED BY HPS/CICS C
FMPROF=X'04', FUNCTION MANAGEMENT PROFILE C
TSPROF=X'04', TRANSMISSION SERVICES PROFILE C
PRIPROT=X'B1', PRIMARY PROTOCOL C
SECPROT=X'B0', SECONDARY PROTOCOL C
COMPROT=X'7080', COMMON PROTOCOL C
SRCVPAC=X'00', SLU RECEIVE PACING COUNT C
SSNDPAC=X'00', SLU SEND PACING COUNT C
PSNDPAC=X'00', PRIMARY SEND PACING COUNT C
RUSIZES=X'F8C7', PRI RU SIZE 256, SEC RU SIZE 256 C
PSERVIC=X'00000000000000000000000000000000' LU SERVICES PROF
HPSCICS4 MODEENT LOGMODE=HPSCICS4, APPL TO APPL BIND USED BY HPS/CICS C
FMPROF=X'04', FUNCTION MANAGEMENT PROFILE C
TSPROF=X'04', TRANSMISSION SERVICES PROFILE C
PRIPROT=X'B1', PRIMARY PROTOCOL C
SECPROT=X'B0', SECONDARY PROTOCOL C
COMPROT=X'7080', COMMON PROTOCOL C
SRCVPAC=X'00', SLU RECEIVE PACING COUNT C
SSNDPAC=X'00', SLU SEND PACING COUNT C
PSNDPAC=X'00', PRIMARY SEND PACING COUNT C
RUSIZES=X'F8F8', PRI RU SIZE 256, SEC RU SIZE 256 C
PSERVIC=X'00000000000000000000000000000000' LU SERVICES PROF
T5280 MODEENT LOGMODE=T5280, APPL TO APPL BIND USED BY RJE/5280 C
FMPROF=X'03', FUNCTION MANAGEMENT PROFILE C
TSPROF=X'03', TRANSMISSION SERVICES PROFILE C
PRIPROT=X'A3', PRIMARY PROTOCOL C
SECPROT=X'A3', SECONDARY PROTOCOL C
COMPROT=X'7080', COMMON PROTOCOL C
SRCVPAC=X'01', SLU RECEIVE PACING COUNT C
SSNDPAC=X'01', SLU SEND PACING COUNT C
RUSIZES=X'8585', C
PSERVIC=X'01100000F100C10000010040' LU SERVICES PROF
TS5280 MODEENT LOGMODE=TS5280, SWITCHED LINEBIND USED BY RJE/5280 C
FMPROF=X'03', FUNCTION MANAGEMENT PROFILE C
TSPROF=X'03', TRANSMISSION SERVICES PROFILE C
PRIPROT=X'A3', PRIMARY PROTOCOL C
SECPROT=X'A3', SECONDARY PROTOCOL C
COMPROT=X'7080', COMMON PROTOCOL C
SRCVPAC=X'01', SLU RECEIVE PACING COUNT C
SSNDPAC=X'01', SLU SEND PACING COUNT C
RUSIZES=X'8585', C
PSERVIC=X'01100000F100C00000010040' LU SERVICES PROF
EM3270 MODEENT LOGMODE=EM3270, X
FMPROF=X'03', X
TSPROF=X'03', X
PRIPROT=X'B1', X
SECPROT=X'90', X
COMPROT=X'3080', X
RUSIZES=X'8585', X
PSERVIC=X'02000000000000000000000000000000'
EM3270P MODEENT LOGMODE=EM3270P, X
FMPROF=X'03', X
TSPROF=X'03', X
PRIPROT=X'B1', X
SECPROT=X'90', X
COMPROT=X'3080', X
RUSIZES=X'8585', X

```



```

RJE01  USSPARM PARM=ID,REP=DATA
        USSCMD  CMD=RJE01,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=REMJES01
        USSPARM PARM=LOGMODE,DEFAULT=TSYS34
        USSPARM PARM=DATA
RJE11  USSCMD  CMD=RJE11,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=RALVSMV3
        USSPARM PARM=LOGMODE,DEFAULT=TSYS34
        USSPARM PARM=DATA
RJE12  USSCMD  CMD=RJE12,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=RALVSMV3
        USSPARM PARM=LOGMODE,DEFAULT=BATCHS1
        USSPARM PARM=DATA
RJE20  USSCMD  CMD=RJE20,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=RALVSMV3
        USSPARM PARM=LOGMODE,DEFAULT=TSYS34
        USSPARM PARM=DATA
TSO     USSCMD  CMD=TSO,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=TSO11
        USSPARM PARM=LOGMODE,DEFAULT=EM3270
        USSPARM PARM=DATA
CICS12 USSCMD  CMD=CICS12,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=CICS12
        USSPARM PARM=LOGMODE,DEFAULT=EM3270
        USSPARM PARM=DATA
CICS22 USSCMD  CMD=CICS22,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=CICS22
        USSPARM PARM=LOGMODE,DEFAULT=EM3270
        USSPARM PARM=DATA
TEST    USSCMD  CMD=TEST,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=ISTOLTEP
        USSPARM PARM=LOGMODE,DEFAULT=DSILGMOD
        USSPARM PARM=DATA
LOGOFF  USSCMD  CMD=LOGOFF,FORMAT=BAL
        USSPARM PARM=APPLID
        USSPARM PARM=TYPE,DEFAULT=COND
        USSPARM PARM=HOLD,DEFAULT=YES
EOD     USSCMD  CMD=EOD,REP=LOGOFF,FORMAT=BAL
        USSPARM PARM=APPLID
        USSPARM PARM=TYPE,DEFAULT=UNCOND
        USSPARM PARM=HOLD,DEFAULT=NO
        USSEND
        END

```

3270 USSVSE

```

*****
* Basically it is the same US3270 table but this is for SA12          *
* *                                                                     *
* USSTAB FOR 3271/3275 MOD. 11/12 (SDLC)                               *
* USSTAB FOR 3271 MOD. 1/2 (BSC)                                       *
* USSTAB FOR 3272 LOCAL (Non-SNA)                                       *
* USSTAB FOR 3274 MOD. 1B (Non-SNA)                                       *
* USSTAB FOR 3274/3276 1C (Non-SNA)                                       *
*****

```

```

USSVSE  PRINT NOGEN
LOG      USSTAB
        USSCMD  CMD=LOG,REP=LOGON,FORMAT=BAL
        USSPARM PARM=P1,REP=APPLID
        USSPARM PARM=P2,REP=LOGMODE
        USSPARM PARM=P3,REP=DATA
NCCF     USSCMD  CMD=NCCF,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=NCF12
        USSPARM PARM=LOGMODE,DEFAULT=DSILGMOD
NCF12    USSCMD  CMD=NCF12,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,DEFAULT=NCF12
        USSPARM PARM=LOGMODE,DEFAULT=DSILGMOD
VCNA     USSCMD  CMD=VCNA,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=VCNA12

```

```

VCNA12  USSPARM PARM=LOGMODE,REP=LOGMODE
        USSCMD CMD=VCNA12,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=VCNA12
CICS    USSPARM PARM=LOGMODE,REP=LOGMODE
        USSCMD CMD=CICS,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=CICS12
CICS12  USSPARM PARM=LOGMODE,REP=LOGMODE
        USSCMD CMD=CICS12,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=CICS12
        USSPARM PARM=LOGMODE,REP=LOGMODE
VM       USSCMD CMD=VM,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=CPRESET
        USSPARM PARM=P1,REP=DATA
RESET   USSCMD CMD=RESET,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=CPRESET
        USSPARM PARM=P1,REP=DATA
TS011   USSCMD CMD=TS011,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=TS011
        USSPARM PARM=LOGMODE,REP=LOGMODE
        USSPARM PARM=P1,REP=DATA
NCF11   USSCMD CMD=NCF11,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=NCF11
        USSPARM PARM=LOGMODE,REP=LOGMODE,DEFAULT=DSILGMOD
        USSPARM PARM=P1,REP=DATA
NPA11   USSCMD CMD=NPA11,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=NPA11
        USSPARM PARM=LOGMODE,REP=LOGMODE
        USSPARM PARM=P1,REP=DATA
IMS11   USSCMD CMD=IMS11,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=IMS11
        USSPARM PARM=LOGMODE,REP=LOGMODE
IBMECHO USSCMD CMD=IBMECHO,REP=IBMECHO,FORMAT=PL1
TEST    USSCMD CMD=TEST,REP=LOGON,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID,DEFAULT=ISTOLTEP
        USSPARM PARM=LOGMODE,REP=LOGMODE
LOGOFF  USSCMD CMD=LOGOFF,REP=LOGOFF,FORMAT=BAL
        USSPARM PARM=APPLID,REP=APPLID
        USSPARM PARM=TYPE,DEFAULT=COND
        USSPARM PARM=HOLD,DEFAULT=YES
MESSAGES USSMSG MSG=1,BUFFER=MSG1
        USSMSG MSG=2,BUFFER=MSG2
        USSMSG MSG=3,BUFFER=MSG3
        USSMSG MSG=4,BUFFER=MSG4
        USSMSG MSG=5,BUFFER=MSG5
        USSMSG MSG=6,BUFFER=MSG6
        USSMSG MSG=7,BUFFER=MSG7
        USSMSG MSG=8,BUFFER=MSG8
        USSMSG MSG=9,BUFFER=MSG9
        USSMSG MSG=0,BUFFER=MSG0
        USSMSG MSG=10,BUFFER=MSG10
        USSMSG MSG=11,BUFFER=MSG11
        USSMSG MSG=12,BUFFER=MSG12
MSG1    DS      0F
MSG15   DC      AL2(MSG1E-MSG15)
        DC      X'F57A1D70114040',C'MSG01 VSE SA(12)'  

        DC      X'11C260',X'1DE8'  

        DC      C'INVALID COMMAND SYNTAX, ENTER:',X'11C3F0'  

        DC      C'LOG applid,logmode,data 0r:'  

        DC      X'11C6D21D60'  

        DC      C'NCCF - VSE PRODUCTION',X'11C7E3'  

        DC      C'CICS - VSE/ICCF AND CICS/VS',X'11C8F3'  

        DC      C'VCNA - VM/VCNA',X'114AC3'  

        DC      C'NCF12 *',X'114BD3'  

        DC      C'CICS12 * AS ABOVE',X'114CE3'  

        DC      C'VCNA12 *',X'114DF3'  

        DC      C'NCF11 *',X'114FC3'  

        DC      C'TS011 TS0ID * MVS SA-11',X'1150D3'  

        DC      C'NPA11 *',X'11D1E3'  

        DC      C' To return terminal to VM, enter VM or'  

        DC      X'11D2F3'  

        DC      C' RESET from this panel'  

        DC      X'11D4C3',X'1D4013',CL60' ',X'1D40'  

MSG1E   EQU      *

```

```

MSG2      DS      0F
MSG2S     DC      AL2(MSG2E-MSG2S)
          DC      X'F57A1D70114040',C'MSG02 VSE SA(12)'  

          DC      X'11C260',X'1DE8'  

          DC      C'COMMAND NOT RECOGNIZED, ENTER:',X'11C3F0'  

          DC      C'LOG applid,logmode,data Or:'  

          DC      X'11C6D21D60'  

          DC      C'NCCF - VSE PRODUCTION',X'11C7E3'  

          DC      C'CICS - VSE/ICCF AND CICS/VS',X'11C8F3'  

          DC      C'VCNA - VM/VCNA',X'114AC3'  

          DC      C'NCF12  *,X'114BD3'  

          DC      C'CICS12  * AS ABOVE',X'114CE3'  

          DC      C'VCNA12  *,X'114DF3'  

          DC      C'NCF11      *,X'114FC3'  

          DC      C'TS011 TSOID  * MVS SA-11',X'1150D3'  

          DC      C'NPA11      *,X'11D1E3'  

          DC      C' To return terminal to VM, enter VM or'  

          DC      X'11D2F3'  

          DC      C' RESET from this panel'  

MSG2E     DC      X'11D4C3',X'1D4013',CL60' ',X'1D40'  

EQU      *
MSG3      DS      0F
MSG3S     DC      AL2(MSG3E-MSG3S)
          DC      X'F57A1D70114040',C'MSG03 VSE SA(12)'  

          DC      X'11C260' SKIP TO LINE 2  

          DC      C'PARAMETER NOT RECOGNIZED, ENTER:',X'11C3F0'  

          DC      C'LOG applid,logmode,data Or:'  

          DC      X'11C6D21D60'  

          DC      C'NCCF - VSE PRODUCTION',X'11C7E3'  

          DC      C'CICS - VSE/ICCF AND CICS/VS',X'11C8F3'  

          DC      C'VCNA - VM/VCNA',X'114AC3'  

          DC      C'NCF12  *,X'114BD3'  

          DC      C'CICS12  * AS ABOVE',X'114CE3'  

          DC      C'VCNA12  *,X'114DF3'  

          DC      C'NCF11      *,X'114FC3'  

          DC      C'TS011 TSOID  * MVS SA-11',X'1150D3'  

          DC      C'NPA11      *,X'11D1E3'  

          DC      C' To return terminal to VM, enter VM or'  

          DC      X'11D2F3'  

          DC      C' RESET from this panel'  

MSG3E     DC      X'11D4C3',X'1D4013',CL60' ',X'1D40'  

EQU      *
MSG4      DS      0F
MSG4S     DC      AL2(MSG4E-MSG4S)
          DC      X'F57A1D70114040',C'MSG04 VSE SA(12)'  

          DC      X'11C260'  

          DC      C'PARAMETER INVALID, ENTER:',X'11C3F0'  

          DC      C'LOG applid,logmode,data Or:'  

          DC      X'11C6D21D60'  

          DC      C'NCCF - VSE PRODUCTION',X'11C7E3'  

          DC      C'CICS - VSE/ICCF AND CICS/VS',X'11C8F3'  

          DC      C'VCNA - VM/VCNA',X'114AC3'  

          DC      C'NCF12  *,X'114BD3'  

          DC      C'CICS12  * AS ABOVE',X'114CE3'  

          DC      C'VCNA12  *,X'114DF3'  

          DC      C'NCF11      *,X'114FC3'  

          DC      C'TS011 TSOID  * MVS SA-11',X'1150D3'  

          DC      C'NPA11      *,X'11D1E3'  

          DC      C' To return terminal to VM, enter VM or'  

          DC      X'11D2F3'  

          DC      C' RESET from this panel'  

          DC      X'11D4C3'  

          DC      C'NOTE: The application may not be active'  

MSG4E     DC      X'11D5D3',X'1D4013',CL60' ',X'1D40'  

EQU      *
MSG5      DS      0F
MSG5S     DC      AL2(MSG5E-MSG5S)
          DC      X'F57A1D70114040',C'MSG05 VSE SA(12)'  

          DC      X'11C260'  

          DC      C'UNSUPPORTED FUNCTION, ENTER:',X'11C3F0'  

          DC      C'LOG applid,logmode,data Or:'  

          DC      X'11C6D21D60'  

          DC      C'NCCF - VSE PRODUCTION',X'11C7E3'  

          DC      C'CICS - VSE/ICCF AND CICS/VS',X'11C8F3'  

          DC      C'VCNA - VM/VCNA',X'114AC3'

```

```

DC      C'NCF12   *',X'114BD3'
DC      C'CICS12  * AS ABOVE',X'114CE3'
DC      C'VCNA12  *',X'114DF3'
DC      C'NCF11   *',X'114FC3'
DC      C'TS011  TSOID   * MVS SA-11',X'1150D3'
DC      C'NPA11   *',X'11D1E3'
DC      C'       To return terminal to VM, enter VM or'
DC      X'11D2F3'
DC      C'       RESET from this panel'
MSG5E   EQU      *
DS      0F
MSG6    DC      AL2(MSG6E-MSG6S)
MSG6S   DC      X'F57A1D70114040',C'MSG06 VSE SA(12)'
DC      X'11C260'
DC      C'SEQUENCE ERROR:'
DC      X'11C6D21D60'
DC      C'1. You are attempting to logoff from a terminal '
DC      C'that is not in session'
DC      X'114CE3'
DC      C'2. You are attempting to logon from a terminal that '
DC      C'is already in session'
DC      X'114FC3'
DC      X'11D2F3',X'1D4013',CL60' ',X'1D40'
MSG6E   EQU      *
DS      0F
MSG7    DC      AL2(MSG7E-MSG7S)
MSG7S   DC      X'F57A1D70114040',C'MSG07 VSE SA(12)'
DC      X'11C260'
DC      C'SESSION NOT BOUND BECAUSE:'
DC      X'11C6D21D60'
DC      C'1. This terminal is already in session'
DC      X'114CE3'
DC      C'2. The host application rejected the logon request'
DC      X'114FC3'
DC      C'3. The terminal rejected the bind'
DC      X'11D4C3'
DC      C'NOTE: This message appears when you enter VM or RESET'
DC      X'11D5D3',X'1D4013',CL60' ',X'1D40'
MSG7E   EQU      *
DS      0F
MSG8    DC      AL2(MSG8E-MSG8S)
MSG8S   DC      X'F57A1D70114040',C'MSG08 VSE SA(12)'
DC      X'11C150'
DC      C'       RALEIGH INTERNATIONAL SYSTEMS CENTER CNM NETWORK'
DC      X'11C260'
DC      C'       SYSTEM VSE SA(12)'
DC      X'11C3F2'
DC      C'Your logon failed because of insufficient storage.'
DC      C' Try again please.'
DC      X'11D2F3',X'1D4013',CL60' ',X'1D40'
MSG8E   EQU      *
MSG9    DC      AL2(MSG9E-MSG9S)
MSG9S   DC      X'F57A1D70114040',C'MSG09 VSE SA(12)'
DC      X'11C15F'
DC      C'       RALEIGH INTERNATIONAL SYSTEMS CENTER CNM NETWORK'
DC      X'11C2F3'
DC      C'       SYSTEM VSE SA(12)'
DC      X'11C3F2'
DC      C'Your logon failed because of magnetic card data error'
DC      C' Try again please.'
DC      X'11D2F3',X'1D4013',CL60' ',X'1D40'
MSG9E   EQU      *
DS      0F
MSG0    DC      AL2(MSG0E-MSG0S)
MSG0S   DC      X'F57A1D70114040',C'MSG00 VSE SA(12)'
DC      X'11C260'
DC      C'COMMAND COMPLETED OK'
MSG0E   EQU      *
DS      0F
MSG10   DC      AL2(MSG10E-MSG10S)
MSG10S  DC      X'F57A1D70114040',C'MSG10 VSE SA(12)'
DC      X'11C150'
DC      C'       RALEIGH INTERNATIONAL SYSTEMS CENTER CNM NETWORK'
DC      X'11C260'

```

```

DC C' SYSTEM VSE SA(12)'
DC X'11C3F2'
DC C'For logon command syntax, press enter'
DC X'11C5C3',X'1D4013',CL60' ',X'1D40',X'114AC9'

```

```

*
*
*
*

```

NOTE, THESE LINES DON'T START IN COLUMN 10 TO ALLOW THE SCREEN IMAGE TO BE FITTED ONTO ONE LINE OF EACH DC CARD.

```

DC C' *****'
DC X'114BD9'
DC C' *****'
DC X'114CE9'
DC C' ***'
DC X'114DF9'
DC C' *** VV VV EEEEEEEE ***'
DC X'114FC9'
DC C' **** VV VV EE ****'
DC X'1150D9'
DC C' **** VV VV SSSSSSS EEEEE *****'
DC X'11D1E9'
DC C'***** VVVV SS EE *****'
DC X'11D2F9'
DC C' ***** VV SSSSSSS EEEEEEEE *****'
DC X'11D4C9'
DC C' **** SS ****'
DC X'11D5D9'
DC C' *** SSSSSSS ***'
DC X'11D6E9'
DC C' ***'
DC X'11D7F9'
DC C' ***** RALEIGH INTERNATIONAL *****'
DC X'11D9C9'
DC C' *****SYSTEMS CENTER*****'
MSG10E EQU *
MSG11 DC AL2(MSG11E-MSG11S)
MSG11S DC X'F57A1D70114040',C'MSG11 VSE SA(12)'
DC X'11C260'
DC C' SESSIONS ENDED'
MSG11E EQU *
MSG12 DC AL2(MSG12E-MSG12S)
MSG12S DC X'F57A1D70114040',C'MSG12 VSE SA(12)'
DC X'11C260'
DC C' REQUIRED PARAMETER OMITTED'
MSG12E EQU *
END USSEND
END

```

3270 US3270

```

*****
* Basically it is the same USSVSE table but this is for SA11 *
* *
* USSTAB FOR 3271/3275 MOD. 11/12 (SDLC) *
* USSTAB FOR 3271 MOD. 1/2 (BSC) *
* USSTAB FOR 3272 LOCAL (Non-SNA) *
* USSTAB FOR 3274 MOD. 1B (Non-SNA) *
*****
PRINT NOGEN
US3270 USSTAB
LOG USSCMD CMD=LOG,REP=LOGON,FORMAT=BAL
USSPARM PARM=P1,REP=APPLID
USSPARM PARM=MODE,REP=LOGMODE
USSPARM PARM=INPUT,REP=DATA
TS011 USSCMD CMD=TS011,REP=LOGON,FORMAT=BAL
USSPARM PARM=APPLID,REP=APPLID,DEFAULT=TS011
USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=TS0
USSPARM PARM=P1,REP=DATA
TS010 USSCMD CMD=TS010,REP=LOGON,FORMAT=BAL
USSPARM PARM=APPLID,REP=APPLID,DEFAULT=TS010
USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=TS0
USSPARM PARM=P1,REP=DATA
TS021 USSCMD CMD=TS021,REP=LOGON,FORMAT=BAL

```

USSPARM PARM=APPLID,REP=APPLID,DEFAULT=TS021
 USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=TS0
 USSPARM PARM=P1,REP=DATA
 TS001 USSCMD CMD=TS001,REP=LOGON,FORMAT=BAL
 USSPARM PARM=APPLID,REP=APPLID,DEFAULT=TS001
 USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=TS0
 USSPARM PARM=P1,REP=DATA
 TSO USSCMD CMD=TSO,REP=LOGON,FORMAT=BAL
 USSPARM PARM=APPLID,REP=APPLID,DEFAULT=TSO
 USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=TSO
 USSPARM PARM=P1,REP=DATA
 NPA USSCMD CMD=NPA,REP=LOGON,FORMAT=BAL
 USSPARM PARM=APPLID,REP=APPLID,DEFAULT=NPA11
 USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=S3270
 USSPARM PARM=P1,REP=DATA
 NCCF USSCMD CMD=NCCF,REP=LOGON,FORMAT=BAL
 USSPARM PARM=APPLID,REP=APPLID,DEFAULT=NCF11
 USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=DSILGMOD
 USSPARM PARM=P1,REP=DATA
 HELP USSCMD CMD=HELP,REP=LOGON,FORMAT=BAL
 USSPARM PARM=APPLID,REP=APPLID,DEFAULT=NCF11
 USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=DSILGMOD
 USSPARM PARM=P1,REP=DATA
 NCF10 USSCMD CMD=NCF10,REP=LOGON,FORMAT=BAL
 USSPARM PARM=APPLID,REP=APPLID,DEFAULT=NCF10
 USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=DSILGMOD
 USSPARM PARM=P1,REP=DATA
 NCF11 USSCMD CMD=NCF11,REP=LOGON,FORMAT=BAL
 USSPARM PARM=APPLID,REP=APPLID,DEFAULT=NCF11
 USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=DSILGMOD
 USSPARM PARM=P1,REP=DATA
 NCF12 USSCMD CMD=NCF12,REP=LOGON,FORMAT=BAL
 USSPARM PARM=APPLID,REP=APPLID,DEFAULT=NCF12
 USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=DSILGMOD
 USSPARM PARM=P1,REP=DATA
 NCF21 USSCMD CMD=NCF21,REP=LOGON,FORMAT=BAL
 USSPARM PARM=APPLID,REP=APPLID,DEFAULT=NCF21
 USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=DSILGMOD
 USSPARM PARM=P1,REP=DATA
 NCF31 USSCMD CMD=NCF31,REP=LOGON,FORMAT=BAL
 USSPARM PARM=APPLID,REP=APPLID,DEFAULT=NCF31
 USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=DSILGMOD
 USSPARM PARM=P1,REP=DATA
 HCF USSCMD CMD=HCF,REP=LOGON,FORMAT=BAL
 USSPARM PARM=APPLID,REP=APPLID,DEFAULT=HCF11
 USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=M3278M2
 USSPARM PARM=P1,REP=DATA
 ECH011 USSCMD CMD=ECH011,REP=LOGON,FORMAT=BAL
 USSPARM PARM=APPLID,REP=APPLID,DEFAULT=ECH011
 USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=ECHO
 USSPARM PARM=P1,REP=DATA
 IBMECHO USSCMD CMD=IBMECHO,REP=IBMECHO,FORMAT=PL1
 CICS11 USSCMD CMD=CICS11,REP=LOGON,FORMAT=BAL
 USSPARM PARM=APPLID,REP=APPLID,DEFAULT=CICS11
 USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=CICS
 USSPARM PARM=P1,REP=DATA
 CICS21 USSCMD CMD=CICS21,REP=LOGON,FORMAT=BAL
 USSPARM PARM=APPLID,REP=APPLID,DEFAULT=CICS21
 USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=CICS
 USSPARM PARM=P1,REP=DATA
 CICS10 USSCMD CMD=CICS10,REP=LOGON,FORMAT=BAL
 USSPARM PARM=APPLID,REP=APPLID,DEFAULT=CICS10
 USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=CICS
 USSPARM PARM=P1,REP=DATA
 CICS USSCMD CMD=CICS,REP=LOGON,FORMAT=BAL
 USSPARM PARM=APPLID,REP=APPLID,DEFAULT=CICS11
 USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=CICS
 USSPARM PARM=P1,REP=DATA
 IMS11 USSCMD CMD=IMS11,REP=LOGON,FORMAT=BAL
 USSPARM PARM=APPLID,REP=APPLID,DEFAULT=IMS11
 USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=IMS
 USSPARM PARM=P1,REP=DATA
 IMS USSCMD CMD=IMS,REP=LOGON,FORMAT=BAL
 USSPARM PARM=APPLID,REP=APPLID,DEFAULT=IMS11


```

VM          USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=IMS
           USSCMD  CMD=VM,REP=LOGON,FORMAT=BAL
           USSPARM PARM=APPLID,REP=APPLID,DEFAULT=VMDISC
LOGOFF     USSCMD  CMD=LOGOFF,REP=LOGOFF,FORMAT=BAL
           USSPARM PARM=APPLID,REP=APPLID
           USSPARM PARM=TYPE,DEFAULT=COND
MESSAGES   USSPARM PARM=HOLD,DEFAULT=YES
           USSMSG  MSG=1,BUFFER=MSG1
           USSMSG  MSG=2,BUFFER=MSG2
           USSMSG  MSG=3,BUFFER=MSG3
           USSMSG  MSG=4,BUFFER=MSG4
           USSMSG  MSG=5,BUFFER=MSG5
           USSMSG  MSG=6,BUFFER=MSG6
           USSMSG  MSG=7,BUFFER=MSG7
           USSMSG  MSG=8,BUFFER=MSG8
           USSMSG  MSG=9,BUFFER=MSG9
           USSMSG  MSG=0,BUFFER=MSG0
           USSMSG  MSG=10,BUFFER=MSG10
           USSMSG  MSG=11,BUFFER=MSG11
           USSMSG  MSG=12,BUFFER=MSG12
MSG1       DS      0F
MSG1S      DC      AL2(MSG1E-MSG1S)
           DC      X'F57A1D70114040',C'MSG01 MVS-SA (11)'
           DC      X'11C260',X'1DE8'
           DC      C'INVALID COMMAND SYNTAX, ENTER:',X'11C3F0'
           DC      C'LOG applid,mode=logmode,input=data  Or:'
           DC      X'11C6D21D60'
           DC      C'CICS11 or CICSxx',X'11C7E3'
           DC      C'CICS12 for VSE',X'11C8F3'
           DC      C'TSO or TSOxx tsoid,mode=logmode',X'114AC3'
           DC      C'HCF',X'114BD3'
           DC      C'NCCF or NCFxx',X'114CE3'
           DC      C'NPA',X'114DF3'
           DC      C'VCNA - SYSTEM 1, VCNA12 - SYSTEM 3 ',X'114FC3'
           DC      C'IMS11',X'1150D3'
           DC      C' To return terminal to VM, enter VM'
           DC      X'11D1E3'
           DC      C'For Help enter HELP and when NCCF LOGO appears,'
           DC      X'11D2F3',C'use LOGON ID (HELP) and PASSWORD (HELP).'
           DC      X'11D4C3',X'1D4013',CL40' ',X'1D40'
MSG1E      EQU     *
           DS      0F
MSG2       DC      AL2(MSG2E-MSG2S)
MSG2S      DC      X'F57A1D70114040',C'MSG02 MVS-SA (11)'
           DC      X'11C260',X'1DE8'
           DC      C'COMMAND NOT RECOGNIZED, ENTER:',X'11C3F0'
           DC      C'LOG applid,mode=logmode,input=data  Or:'
           DC      X'11C6D21D60'
           DC      C'CICS21 or CICSxx',X'11C7E3'
           DC      C'CICS12 for VSE',X'11C8F3'
           DC      C'TSO or TSOxx tsoid,mode=logmode',X'114AC3'
           DC      C'HCF',X'114BD3'
           DC      C'NCCF or NCFxx',X'114CE3'
           DC      C'NPA',X'114DF3'
           DC      C'VCNA - SYSTEM 1, VCNA12 - SYSTEM 3 ',X'114FC3'
           DC      C'IMS11',X'1150D3'
           DC      C' To return terminal to VM, enter VM'
           DC      X'11D1E3'
           DC      C'For Help enter HELP and when NCCF LOGO appears,'
           DC      X'11D2F3',C'use LOGON ID (HELP) and PASSWORD (HELP).'
           DC      X'11D4C3',X'1D4013',CL40' ',X'1D40'
MSG2E      EQU     *
           DS      0F
MSG3       DC      AL2(MSG3E-MSG3S)
MSG3S      DC      X'F57A1D70114040',C'MSG03 MVS-SA (11)'
           DC      X'11C260'          SKIP TO LINE 2
           DC      C'PARAMETER NOT RECOGNIZED, ENTER:',X'11C3F0'
           DC      C'LOG applid,mode=logmode,input=data  Or:'
           DC      X'11C6D21D60'
           DC      C'CICS21 or CICSxx',X'11C7E3'
           DC      C'CICS12 for VSE',X'11C8F3'
           DC      C'TSO or TSOxx tsoid,mode=logmode',X'114AC3'
           DC      C'HCF',X'114BD3'
           DC      C'NCCF or NCFxx',X'114CE3'

```

```

DC      C'NPA',X'114DF3'
DC      C'VCNA - SYSTEM 1, VCNA12 - SYSTEM 3 ',X'114FC3'
DC      C'IMS11',X'1150D3'
DC      C' To return terminal to VM, enter VM'
DC      X'11D1E3'
DC      C'For Help enter HELP and when NCCF LOGO appears,'
DC      X'11D2F3',C'use LOGON ID (HELP) and PASSWORD (HELP).'
DC      X'11D4C3',X'1D4013',CL40' ',X'1D40'
MSG3E  EQU      *
        DS      0F
MSG4    DC      AL2(MSG4E-MSG4S)
MSG4S   DC      X'F57A1D70114040',C'MSG04 MVS-SA (11)'
        DC      X'11C260'
        DC      C'PARAMETER INVALID, ENTER:',X'11C3F0'
        DC      C'LOG applid,mode=logmode,input=data Or:'
        DC      X'11C6D21D60'
        DC      C'CICS21 or CICSxx',X'11C7E3'
        DC      C'CICS12 for VSE',X'11C8F3'
        DC      C'TSO or TSOxx tsoid,mode=logmode',X'114AC3'
        DC      C'HCF',X'114BD3'
        DC      C'NCCF or NCFxx',X'114CE3'
        DC      C'NPA',X'114DF3'
        DC      C'VCNA - SYSTEM 1, VCNA12 - SYSTEM 3 ',X'114FC3'
        DC      C'IMS11',X'1150D3'
        DC      C' To return terminal to VM, enter VM'
        DC      X'11D1E3'
        DC      C'For Help enter HELP and when NCCF LOGO appears,'
        DC      X'11D2F3',C'use LOGON ID (HELP) and PASSWORD (HELP).'
        DC      X'11D4C3'
        DC      C'NOTE: The application may not be active'
        DC      X'11D5D3',X'1D4013',CL40' ',X'1D40'
MSG4E  EQU      *
        DS      0F
MSG5    DC      AL2(MSG5E-MSG5S)
MSG5S   DC      X'F57A1D70114040',C'MSG05 MVS-SA (11)'
        DC      X'11C260'
        DC      C'UNSUPPORTED FUNCTION, ENTER:',X'11C3F0'
        DC      C'LOG applid,mode=logmode,input=data Or:'
        DC      X'11C6D21D60'
        DC      C'CICS21 or CICSxx',X'11C7E3'
        DC      C'CICS12 for VSE',X'11C8F3'
        DC      C'TSO or TSOxx tsoid,mode=logmode',X'114AC3'
        DC      C'HCF',X'114BD3'
        DC      C'NCCF or NCFxx',X'114CE3'
        DC      C'NPA',X'114DF3'
        DC      C'VCNA - SYSTEM 1, VCNA12 - SYSTEM 3 ',X'114FC3'
        DC      C'IMS11',X'1150D3'
        DC      C' To return terminal to VM, enter VM'
        DC      X'11D1E3'
        DC      C'For Help enter HELP and when NCCF LOGO appears,'
        DC      X'11D2F3',C'use LOGON ID (HELP) and PASSWORD (HELP).'
        DC      X'11D4C3',X'1D4013',CL40' ',X'1D40'
MSG5E  EQU      *
        DS      0F
MSG6    DC      AL2(MSG6E-MSG6S)
MSG6S   DC      X'F57A1D70114040',C'MSG06 MVS-SA (11)'
        DC      X'11C260'
        DC      C'SEQUENCE ERROR:'
        DC      X'11C6D21D60'
        DC      C'1. You are attempting to logoff from a terminal '
        DC      C'that is not in session'
        DC      X'114CE3'
        DC      C'2. You are attempting to logon from a terminal that '
        DC      C'is already in session'
        DC      X'114FC3'
        DC      X'11D2F3',X'1D4013',CL40' ',X'1D40'
MSG6E  EQU      *
        DS      0F
MSG7    DC      AL2(MSG7E-MSG7S)
MSG7S   DC      X'F57A1D70114040',C'MSG07 MVS-SA (11)'
        DC      X'11C260'
        DC      C'SESSION NOT BOUND BECAUSE:'
        DC      X'11C6D21D60'
        DC      C'1. This terminal is already in session'
        DC      X'11C8F2'

```

```

DC      C'2. The host application rejected the logon request'
DC      X'114BD2'
DC      C'3. The terminal rejected the bind'
DC      X'114DF2'
DC      C'4. no path is available'
DC      X'11D2F3',X'1D4013',CL40' ',X'1D40'
MSG7E   EQU      *
        DS      0F
MSG8     DC      AL2(MSG8E-MSG8S)
MSG8S   DC      X'F57A1D70114040',C'MSG08 MVS-SA (11)'
        DC      X'11C150'
        DC      C'SYSTEMS CENTER'
        DC      X'11C260'
        DC      C'
        DC      SYSTEM SA (11)'
        DC      X'11C3F2'
        DC      C'Your logon failed because of insufficient storage.'
        DC      C' Try again please.'
        DC      X'11D2F3',X'1D4013',CL40' ',X'1D40'
MSG8E   EQU      *
MSG9     DC      AL2(MSG9E-MSG9S)
MSG9S   DC      X'F57A1D70114040',C'MSG09 MVS-SA (11)'
        DC      X'11C15F'
        DC      C'SYSTEMS CENTER'
        DC      X'11C2F3'
        DC      C'
        DC      SYSTEM SA (11)'
        DC      X'11C3F2'
        DC      C'Your logon failed because of magnetic card data error'
        DC      C' Try again please.'
        DC      X'11D2F3',X'1D4013',CL40' ',X'1D40'
MSG9E   EQU      *
        DS      0F
MSG0     DC      AL2(MSG0E-MSG0S)
MSG0S   DC      X'F57A1D70114040',C'MSG00 MVS-SA (11)'
        DC      X'11C260'
        DC      C'COMMAND COMPLETED OK'
MSG0E   EQU      *
        DS      0F
MSG10    DC      AL2(MSG10E-MSG10S)
MSG10S  DC      X'F57A1D70114040',C'MSG10 MVS-SA (11)'
        DC      X'11C150'
        DC      C'SYSTEMS CENTER'
        DC      X'11C260'
        DC      C'
        DC      SYSTEM MVS-SA (11)'
        DC      X'11C3F2'
        DC      C'For logon command syntax, press enter'
        DC      X'11C5C3',X'1D4013',CL40' ',X'1D40',X'114AC9'

```

```

*
*      NOTE, THESE LINES DON'T START IN COLUMN 10 TO ALLOW THE
*      SCREEN IMAGE TO BE FITTED ONTO ONE LINE OF EACH DC CARD.
*

```

```

DC C' *****'
DC X'114BD9'
DC C'***      *'
DC X'114CE9'
DC C'***      ***'
DC X'114DF9'
DC C' *****      * *      *'
DC X'114FC9'
DC C'      **      * *      *      *'
DC X'1150D9'
DC C' *      **      * *      *      * *'
DC X'11D1E9'
DC C' *****      *      * *      *      * *'
DC X'11D2F9'
DC C'      *      * *      *      *'
DC X'11D4C9'
DC C'      **      ***      *****'
DC X'11D5D9'
DC C'      *      *'
DC X'11D6E9'
DC C'      **      **'
MSG10E EQU      *
*****1*****
*
*

```



```

HELP      USSPARM PARM=P1,REP=DATA
          USSCMD CMD=HELP,REP=LOGON,FORMAT=BAL
          USSPARM PARM=APPLID,REP=APPLID,DEFAULT=NCF11
          USSPARM PARM=MODE,REP=LOGMODE
          USSPARM PARM=P1,REP=DATA
NCF10    USSCMD CMD=NCF10,REP=LOGON,FORMAT=BAL
          USSPARM PARM=APPLID,REP=APPLID,DEFAULT=NCF10
          USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=DSILGMOD
          USSPARM PARM=P1,REP=DATA
NCF11    USSCMD CMD=NCF11,REP=LOGON,FORMAT=BAL
          USSPARM PARM=APPLID,REP=APPLID,DEFAULT=NCF11
          USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=DSILGMOD
          USSPARM PARM=P1,REP=DATA
NCF12    USSCMD CMD=NCF12,REP=LOGON,FORMAT=BAL
          USSPARM PARM=APPLID,REP=APPLID,DEFAULT=NCF12
          USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=DSILGMOD
          USSPARM PARM=P1,REP=DATA
NCF21    USSCMD CMD=NCF21,REP=LOGON,FORMAT=BAL
          USSPARM PARM=APPLID,REP=APPLID,DEFAULT=NCF21
          USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=DSILGMOD
          USSPARM PARM=P1,REP=DATA
HCF      USSCMD CMD=HCF,REP=LOGON,FORMAT=BAL
          USSPARM PARM=APPLID,REP=APPLID,DEFAULT=HCF
          USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=T3278M2
IBMECHO  USSCMD CMD=IBMECHO,REP=IBMECHO,FORMAT=PL1
CICS11   USSCMD CMD=CICS11,REP=LOGON,FORMAT=BAL
          USSPARM PARM=APPLID,REP=APPLID,DEFAULT=CICS11
          USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=CICS
          USSPARM PARM=P1,REP=DATA
CICS12   USSCMD CMD=CICS12,REP=LOGON,FORMAT=BAL
          USSPARM PARM=APPLID,REP=APPLID,DEFAULT=CICS12
          USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=CICS
          USSPARM PARM=P1,REP=DATA
CICS21   USSCMD CMD=CICS21,REP=LOGON,FORMAT=BAL
          USSPARM PARM=APPLID,REP=APPLID,DEFAULT=CICS21
          USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=CICS
          USSPARM PARM=P1,REP=DATA
ECHO11   USSCMD CMD=ECHO11,REP=LOGON,FORMAT=BAL
          USSPARM PARM=APPLID,REP=APPLID,DEFAULT=ECHO11
          USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=ECHO
          USSPARM PARM=P1,REP=DATA
IMS11    USSCMD CMD=IMS11,REP=LOGON,FORMAT=BAL
          USSPARM PARM=APPLID,REP=APPLID,DEFAULT=IMS11
          USSPARM PARM=MODE,REP=LOGMODE,DEFAULT=IMS
          USSPARM PARM=P1,REP=DATA
IMS      USSCMD CMD=IMS,REP=LOGON,FORMAT=BAL
          USSPARM PARM=APPLID,REP=APPLID,DEFAULT=IMS11
TEST     USSCMD CMD=TEST,REP=LOGON,FORMAT=BAL
          USSPARM PARM=APPLID,REP=APPLID,DEFAULT=ISTOLTEP
          USSPARM PARM=P1,REP=DATA
LOGOFF   USSCMD CMD=LOGOFF,REP=LOGOFF,FORMAT=BAL
          USSPARM PARM=APPLID,REP=APPLID
          USSPARM PARM=TYPE,DEFAULT=COND
          USSPARM PARM=HOLD,DEFAULT=YES
MESSAGES USSMSG MSG=1,BUFFER=MSG1
          USSMSG MSG=2,BUFFER=MSG2
          USSMSG MSG=3,BUFFER=MSG3
          USSMSG MSG=4,BUFFER=MSG4
          USSMSG MSG=5,BUFFER=MSG5
          USSMSG MSG=6,BUFFER=MSG6
          USSMSG MSG=7,BUFFER=MSG7
          USSMSG MSG=8,BUFFER=MSG8
          USSMSG MSG=9,BUFFER=MSG9
          USSMSG MSG=0,BUFFER=MSG0
          USSMSG MSG=10,BUFFER=MSG10
          USSMSG MSG=11,BUFFER=MSG11
          USSMSG MSG=12,BUFFER=MSG12
          DS      0F
MSG1     DC      AL2(MSG1E-MSG1S)
MSG1S   DC      X'4015',C'MSG01 MVS-SA(11)',X'15'
          DC      X'4015'
          DC      C'INVALID COMMAND SYNTAX, ENTER:',X'15'
          DC      X'4015'
          DC      C'LOG applid,mode=logmode,input=data or',X'15'
          DC      X'4015'

```

```

DC      C'CICS, CICS11 OR CICS21 ',X'15'
DC      C'CICS12 for VSE',X'15'
DC      C'TSO OR TSOxx tsoid,mode=logmode',X'15'
DC      C'HCF',X'15'
DC      C'NCF11 OR NCFxx OR NCCF (MVS PROD)',X'15'
DC      C'NPA',X'15'
DC      C'NCF12 - DOS/VSE WITH OCCF',X'15'
DC      C'IMS OR IMS11 OR IMS21',X'15'
DC      C'VCNA12 for VCNA on SYSTEM 3',X'15'
DC      C'VCNA for VCNA on SYSTEM 1',X'15'
DC      X'4015'
DC      C'For HELP enter HELP and when NCCF LOGO appears,',X'15'
DC      C'use LOGON ID (HELP) and PASSWORD (HELP).',X'15'
DC      X'4015'
MSG1E  EQU      *
        DS      0F
MSG2    DC      AL2(MSG2E-MSG2S)
MSG2S  DC      X'4015',C'MSG02 MVS-SA(11)',X'15'
        DC      X'4015'
        DC      C'COMMAND NOT RECOGNIZED, ENTER:',X'15'
        DC      X'4015'
        DC      C'LOG applid,mode=logmode,input=data or',X'15'
        DC      X'4015'
        DC      C'CICS, CICS11 OR CICS21 ',X'15'
        DC      C'CICS12 for VSE',X'15'
        DC      C'TSO OR TSOxx tsoid,mode=logmode',X'15'
        DC      C'HCF',X'15'
        DC      C'NCF11 OR NCFxx OR NCCF (MVS PROD)',X'15'
        DC      C'NPA',X'15'
        DC      C'NCF12 - DOS/VSE WITH OCCF',X'15'
        DC      C'IMS OR IMS11 OR IMS21',X'15'
        DC      C'VCNA12 for VCNA on SYSTEM 3',X'15'
        DC      C'VCNA for VCNA on SYSTEM 1',X'15'
        DC      X'4015'
        DC      C'For HELP enter HELP and when NCCF LOGO appears,',X'15'
        DC      C'use LOGON ID (HELP) and PASSWORD (HELP).',X'15'
        DC      X'4015'
MSG2E  EQU      *
        DS      0F
MSG3    DC      AL2(MSG3E-MSG3S)
MSG3S  DC      X'4015',C'MSG03 MVS-SA(11)',X'15'
        DC      X'4015'
        DC      C'PARAMETER NOT RECOGNIZED, ENTER:',X'15'
        DC      X'4015'
        DC      C'LOG applid,mode=logmode,input=data or',X'15'
        DC      X'4015'
        DC      C'CICS, CICS11 OR CICS21 ',X'15'
        DC      C'CICS12 for VSE',X'15'
        DC      C'TSO OR TSOxx tsoid,mode=logmode',X'15'
        DC      C'HCF',X'15'
        DC      C'NCF11 OR NCFxx OR NCCF (MVS PROD)',X'15'
        DC      C'NPA',X'15'
        DC      C'NCF12 - DOS/VSE WITH OCCF',X'15'
        DC      C'IMS OR IMS11 OR IMS21',X'15'
        DC      C'VCNA12 for VCNA on SYSTEM 3',X'15'
        DC      C'VCNA for VCNA on SYSTEM 1',X'15'
        DC      X'4015'
        DC      C'For HELP enter HELP and when NCCF LOGO appears,',X'15'
        DC      C'use LOGON ID (HELP) and PASSWORD (HELP).',X'15'
        DC      X'4015'
MSG3E  EQU      *
        DS      0F
MSG4    DC      AL2(MSG4E-MSG4S)
MSG4S  DC      X'4015',C'MSG04 MVS-SA(11)',X'15'
        DC      X'4015',X'4015',X'4015'
        DC      C'PARAMETER INVALID, ENTER:',X'15'
        DC      X'4015'
        DC      C'LOG applid,mode=logmode,input=data or',X'15'
        DC      X'4015'
        DC      C'CICS, CICS11 OR CICS21 ',X'15'
        DC      C'CICS12 for VSE',X'15'
        DC      C'TSO OR TSOxx tsoid,mode=logmode',X'15'
        DC      C'HCF',X'15'
        DC      C'NCF11 OR NCFxx OR NCCF (MVS PROD)',X'15'
        DC      C'NPA',X'15'

```

```

DC      C'NCF12 - DOS/VSE WITH OCCF',X'15'
DC      C'IMS OR IMS11 OR IMS21',X'15'
DC      C'VCNA12 for VCNA on SYSTEM 3',X'15'
DC      C'VCNA for VCNA on SYSTEM 1',X'15'
DC      X'4015'
DC      C'For HELP enter HELP and when NCCF LOGO appears,',X'15'
DC      C'use LOGON ID (HELP) and PASSWORD (HELP).',X'15'
DC      X'4015'
MSG4E  EQU      *
DS      0F
MSG5   DC      AL2(MSG5E-MSG5S)
MSG5S  DC      X'4015',C'MSG05 MVS-SA(11)',X'15'
DC      X'4015'
DC      X'4015'
DC      C'UNSUPPORTED FUNCTION, ENTER:',X'15'
DC      X'4015'
DC      C'LOG applid,mode=logmode,input=data or',X'15'
DC      X'4015'
DC      C'CICS, CICS11 OR CICS21 ',X'15'
DC      C'CICS12 for VSE',X'15'
DC      C'TSO OR TSOxx tsoid,mode=logmode',X'15'
DC      C'HCF',X'15'
DC      C'NCF11 OR NCFxx OR NCCF (MVS PROD)',X'15'
DC      C'NPA',X'15'
DC      C'NCF12 - DOS/VSE WITH OCCF',X'15'
DC      C'IMS OR IMS11 OR IMS21',X'15'
DC      C'VCNA12 for VCNA on SYSTEM 3',X'15'
DC      C'VCNA for VCNA on SYSTEM 1',X'15'
DC      X'4015'
DC      C'For HELP enter HELP and when NCCF LOGO appears,',X'15'
DC      C'use LOGON ID (HELP) and PASSWORD (HELP).',X'15'
DC      X'4015'
MSG5E  EQU      *
DS      0F
MSG6   DC      AL2(MSG6E-MSG6S)
MSG6S  DC      X'4015',C'MSG06 MVS-SA(11)',X'15'
DC      X'4015'
DC      C'SEQUENCE ERROR:'
DC      X'4015'
DC      C'You are attempting to logon from a terminal that '
DC      C'is already in session'
DC      X'4015'
DC      C'For HELP enter HELP and when NCCF LOGO appears,',X'15'
DC      C'use LOGON ID (HELP) and PASSWORD (HELP).',X'15'
DC      X'4015'
MSG6E  EQU      *
DS      0F
MSG7   DC      AL2(MSG7E-MSG7S)
MSG7S  DC      X'4015',C'MSG07 MVS-SA(11)',X'15'
DC      X'4015'
DC      C'SESSION NOT BOUND BECAUSE:'
DC      X'4015'
DC      C'1. This terminal is already in session, or '
DC      X'15'
DC      C'2. The host application rejected the logon request, '
DC      X'15'
DC      C'3. The terminal rejected the bind, OR '
DC      X'15'
DC      C'4. NO PATH IS AVAILABLE'
DC      X'4015'
DC      C'For HELP enter HELP and when NCCF LOGO appears,',X'15'
DC      C'use LOGON ID (HELP) and PASSWORD (HELP).',X'15'
DC      X'4015'
MSG7E  EQU      *
DS      0F
MSG8   DC      AL2(MSG8E-MSG8S)
MSG8S  DC      X'4015',C'MSG08 MVS-SA(11)',X'15'
DC      X'4015'
DC      C'RALEIGH INTERNATIONAL SYSTEMS CENTER, ACF/VTAM SYSTEM'
DC      X'4015'
DC      C'
DC      C'          SYSTEM SA (11)'
DC      X'4015'
DC      C'Your logon failed because of insufficient storage.'
DC      C' Try again please.'
DC      X'4015'

```

```

DC      C'For HELP enter HELP and when NCCF LOGO appears,',X'15'
DC      C'use LOGON ID (HELP) and PASSWORD (HELP).',X'15'
DC      X'4015,4015,4015,4015'
MSG8E  EQU      *
MSG9    DC      AL2(MSG9E-MSG9S)
MSG9S  DC      X'4015',C'MSG09 MVS-SA(11)',X'15'
DC      X'4015'
DC      C'RALEIGH INTERNATIONAL SYSTEMS CENTER, ACF/VTAM SYSTEM'
DC      X'4015'
DC      C'
DC      SYSTEM MVS SA (11)'
DC      X'4015'
DC      C'Your logon failed because of magnetic card data error'
DC      C' Please try again.'
DC      X'4015'
DC      C'For HELP enter HELP and when NCCF LOGO appears,',X'15'
DC      C'use LOGON ID (HELP) and PASSWORD (HELP).',X'15'
DC      X'4015'
MSG9E  EQU      *
DS      0F
MSG0    DC      AL2(MSG0E-MSG0S)
MSG0S  DC      X'4015',C'MSG00 MVS-SA(11)',X'15'
DC      X'4015'
DC      C'COMMAND COMPLETED OK'
MSG0E  EQU      *
DS      0F
MSG10   DC      AL2(MSG10E-MSG10S)
MSG10S DC      X'4015',C'MSG10 MVS-SA(11)',X'15'
DC      X'4015'
DC      C'RALEIGH INTERNATIONAL SYSTEMS CENTER, ACF/VTAM SYSTEM'
DC      X'4015'
DC      C'
DC      SYSTEM SA (11)'
DC      X'4015'
DC      C'For logon command syntax, press enter'
DC      X'401540154015'

```

```

*
*      NOTE, THESE LINES DON'T START IN COLUMN 10 TO ALLOW THE
*      SCREEN IMAGE TO BE FITTED ONTO ONE LINE OF EACH DC CARD.
*

```

```

DC C'
DC X'4015'
DC C'** **'
DC X'4015'
DC C'* * * * *'
DC X'4015'
DC C'* * * * * ** **'
DC X'4015'
DC C'* * * * * *'
DC X'4015'
DC C'* * * * * * * * * * *'
DC X'4015'
DC C'* * * * * * * * * * * 3333 '
DC X'4015'
DC C'* * * * * * * * * * * 3'
DC X'4015'
DC C' * * * * * * * * * * * 33 '
DC X'4015'
DC C' * * * * * * * * * * * 3'
DC X'4015'
DC C' * * * * * * * * * * * 3333 '
DC X'4015'
DC C' * * * * * * * * * * *'
MSG10E DC      X'4015,4015'
MSG11  DC      C'For HELP enter HELP and when NCCF LOGO appears,',X'15'
MSG11S DC      C'use LOGON ID (HELP) and PASSWORD (HELP).',X'15'
EQU      *
DC      AL2(MSG11E-MSG11S)
DC      X'4015',C'MSG11 MVS-SA(11)',X'15'
DC      X'4015'
DC      X'4015,4015,4015,4015'
DC      C'
DC      SESSIONS ENDED'
DC      X'4015'
DC      X'4015,4015,4015,4015'
MSG11E EQU      *
MSG12  DC      AL2(MSG12E-MSG12S)
MSG12S DC      X'4015',C'MSG12 MVS-SA(11)',X'15'

```



```

DC      X'4015'
DC      C'
DC      X'4015'
MSG12E EQU      *
END      USSEND
END

```

REQUIRED PARAMETER OMITTED'

3767 US3767

```

*****
* USSTAB FOR 3767
*****
US3767 USSTAB
LOG      USSCMD CMD=LOG,REP=LOGON,FORMAT=BAL
         USSPARM PARM=P1,REP=APPLID
         USSPARM PARM=P2,REP=LOGMODE,
         USSPARM PARM=P3,REP=DATA
IMS      USSCMD CMD=IMS,REP=LOGON,FORMAT=BAL
         USSPARM PARM=APPLID,DEFAULT=IMS
         USSPARM PARM=LOGMODE,DEFAULT=INTERACT
         USSPARM PARM=ID,REP=DATA
HCF      USSCMD CMD=HCF,REP=LOGON,FORMAT=BAL
         USSPARM PARM=APPLID,DEFAULT=HCF
         USSPARM PARM=LOGMODE,DEFAULT=ENTRY1
         USSPARM PARM=ID,REP=DATA
LCV      USSCMD CMD=LCV,REP=LOGON,FORMAT=BAL
         USSPARM PARM=APPLID,DEFAULT=LCV
         USSPARM PARM=LOGMODE,DEFAULT=ENTRY1
         USSPARM PARM=ID,REP=DATA
NRF      USSCMD CMD=NRF,REP=LOGON,FORMAT=BAL
         USSPARM PARM=APPLID,DEFAULT=T24NRF01
         USSPARM PARM=LOGMODE,DEFAULT=NRF1
         USSPARM PARM=ID,REP=DATA
CICS     USSCMD CMD=CICS,REP=LOGON,FORMAT=BAL
         USSPARM PARM=APPLID,DEFAULT=CICS11
         USSPARM PARM=LOGMODE,DEFAULT=INTERACT
         USSPARM PARM=DATA
TSO      USSCMD CMD=TSO,REP=LOGON,FORMAT=BAL
         USSPARM PARM=APPLID,DEFAULT=TSO
         USSPARM PARM=LOGMODE,DEFAULT=INTERACT
         USSPARM PARM=DATA
TEST     USSCMD CMD=TEST,REP=LOGON,FORMAT=BAL
         USSPARM PARM=APPLID,DEFAULT=ISTOLTEP
         USSPARM PARM=LOGMODE,DEFAULT=INTERACT
         USSPARM PARM=DATA
LOGOFF   USSCMD CMD=LOGOFF,FORMAT=BAL
         USSPARM PARM=APPLID
         USSPARM PARM=TYPE,DEFAULT=COND
         USSPARM PARM=HOLD,DEFAULT=YES
EOD      USSCMD CMD=EOD,REP=LOGOFF,FORMAT=BAL
         USSPARM PARM=APPLID
         USSPARM PARM=TYPE,DEFAULT=UNCOND
         USSPARM PARM=HOLD,DEFAULT=NO
         USSEND
         END

```

3770 US3770

```

PRINT NOGEN
*****
* USSTAB FOR 3770
*****
US3770 USSTAB
LOG      USSCMD CMD=LOG,REP=LOGON,FORMAT=BAL
         USSPARM PARM=P1,REP=APPLID
         USSPARM PARM=P2,REP=LOGMODE

```

```

USSPARM PARM=P3,REP=DATA
IMS USSCMD CMD=IMS,REP=LOGON,FORMAT=BAL
USSPARM PARM=APPLID,DEFAULT=IMS
USSPARM PARM=LOGMODE,DEFAULT=INTERACT
USSPARM PARM=ID,REP=DATA
RJE03 USSCMD CMD=RJE03,REP=LOGON,FORMAT=BAL
USSPARM PARM=APPLID,DEFAULT=REMJES03
USSPARM PARM=LOGMODE,DEFAULT=TSYS34
USSPARM PARM=DATA
RJE10 USSCMD CMD=RJE10,REP=LOGON,FORMAT=BAL
USSPARM PARM=APPLID,DEFAULT=RDPD3MVS
USSPARM PARM=LOGMODE,DEFAULT=TSYS34
USSPARM PARM=DATA
RJE20 USSCMD CMD=RJE20,REP=LOGON,FORMAT=BAL
USSPARM PARM=APPLID,DEFAULT=RDPD3MVS
USSPARM PARM=LOGMODE,DEFAULT=TSYS34
USSPARM PARM=DATA
TEST USSCMD CMD=TEST,REP=LOGON,FORMAT=BAL
USSPARM PARM=APPLID,DEFAULT=ISTOLTEP
USSPARM PARM=LOGMODE,DEFAULT=INTERACT
USSPARM PARM=DATA
LOGOFF USSCMD CMD=LOGOFF,FORMAT=BAL
USSPARM PARM=APPLID
USSPARM PARM=TYPE,DEFAULT=COND
USSPARM PARM=HOLD,DEFAULT=YES
EOD USSCMD CMD=EOD,REP=LOGOFF,FORMAT=BAL
USSPARM PARM=APPLID
USSPARM PARM=TYPE,DEFAULT=UNCOND
USSPARM PARM=HOLD,DEFAULT=NO
USSEND
END
MESSAGES USSMSG MSG=1,BUFFER=MSG1
USSMSG MSG=2,BUFFER=MSG2
USSMSG MSG=3,BUFFER=MSG3
USSMSG MSG=4,BUFFER=MSG4
USSMSG MSG=5,BUFFER=MSG5
USSMSG MSG=6,BUFFER=MSG6
USSMSG MSG=7,BUFFER=MSG7
USSMSG MSG=8,BUFFER=MSG8
USSMSG MSG=9,BUFFER=MSG9
USSMSG MSG=0,BUFFER=MSG0
USSMSG MSG=10,BUFFER=MSG10
USSMSG MSG=11,BUFFER=MSG11
USSMSG MSG=12,BUFFER=MSG12
DS 0F
MSG1 DC AL2(MSG1E-MSG1S)
MSG1S DC X'4015',C'MSG01',X'15'
DC X'4015'
DC C'INVALID COMMAND SYNTAX, ENTER:',X'15'
DC C'LOG applid logmode data 0r:'
DC X'4015'
DC C'RJE03',X'15'
DC C'RJE10',X'15'
DC C'RJE20',X'15'
DC C'IMS',X'15'
MSG1E EQU *
DS 0F
MSG2 DC AL2(MSG2E-MSG2S)
MSG2S DC X'4015',C'MSG02',X'15'
DC C'COMMAND NOT RECOGNIZED, ENTER:',X'15'
DC C'LOG applid logmode data 0r:'
DC X'4015'
DC C'RJE03',X'15'
DC C'RJE10',X'15'
DC C'RJE20',X'15'
DC C'IMS',X'15'
MSG2E EQU *
DS 0F
MSG3 DC AL2(MSG3E-MSG3S)
MSG3S DC X'4015',C'MSG03'
DC C'PARAMETER NOT RECOGNIZED, ENTER:',X'15'
DC C'LOG applid logmode data 0r:'
DC X'4015'
DC C'RJE03',X'15'
DC C'RJE10',X'15'

```

```

DC      C'RJE20',X'15'
DC      C'IMS',X'15'
MSG3E  EQU      *
DS      0F
MSG4    DC      AL2(MSG4E-MSG4S)
MSG4S  DC      X'4015',C'MSG04'
DC      C'PARAMETER INVALID, ENTER:',X'15'
DC      C'LOG applid logmode data 0r:'
DC      X'4015'
DC      C'RJE03',X'15'
DC      C'RJE10',X'15'
DC      C'RJE20',X'15'
DC      C'IMS',X'15'
MSG4E  DC      C'NOTE: The application may not be active'
EQU      *
DS      0F
MSG5    DC      AL2(MSG5E-MSG5S)
MSG5S  DC      X'4015',C'MSG05'
DC      X'4015'
DC      C'UNSUPPORTED FUNCTION, ENTER:',X'15'
DC      C'LOG applid logmode data 0r:'
DC      X'4015'
DC      C'RJE03',X'15'
DC      C'RJE10',X'15'
DC      C'RJE20',X'15'
DC      C'IMS',X'15'
MSG5E  EQU      *
DS      0F
MSG6    DC      AL2(MSG6E-MSG6S)
MSG6S  DC      X'4015',C'MSG06'
DC      X'4015'
DC      C'SEQUENCE ERROR:'
DC      X'4015'
DC      C'1. You are attempting to logoff from a terminal '
DC      C'that is not in session'
DC      X'15'
DC      C'2. You are attempting to logon from a terminal that '
DC      C'is already in session'
DC      X'15'
MSG6E  EQU      *
DS      0F
MSG7    DC      AL2(MSG7E-MSG7S)
MSG7S  DC      X'4015',C'MSG07'
DC      X'4015'
DC      C'SESSION NOT BOUND BECAUSE:'
DC      X'4015'
DC      C'1. This terminal is already in session'
DC      X'15'
DC      C'2. The host application rejected the logon request'
DC      X'4015'
DC      C'3. The terminal rejected the bind'
DC      X'4015'
MSG7E  EQU      *
DS      0F
MSG8    DC      AL2(MSG8E-MSG8S)
MSG8S  DC      X'4015',C'MSG08'
DC      X'4015'
DC      C'          WORLD TRADE SYSTEMS CENTER, ACF/VTAM SYSTEM'
DC      X'4015'
DC      C'          SYSTEM MVS (20)'
DC      X'4015'
DC      C'Your logon failed because of insufficient storage.'
DC      C'  Try again please.'
MSG8E  EQU      *
MSG9    DC      AL2(MSG9E-MSG9S)
MSG9S  DC      X'4015',C'MSG09'
DC      X'4015'
DC      C'WORLD TRADE SYSTEMS CENTER, ACF/VTAM SYSTEM'
DC      X'4015'
DC      C'          SYSTEM MVS (20)'
DC      X'4015'
DC      C' Please try again.'
DC      X'4015'
MSG9E  EQU      *

```

```

MSG0      DS      0F
          DC      AL2(MSG0E-MSG0S)
MSG0S     DC      X'4015',C'MSG00'
          DC      X'4015'
          DC      C'COMMAND COMPLETED OK'
MSG0E     EQU      *
          DS      0F
MSG10     DC      AL2(MSG10E-MSG10S)
MSG10S    DC      X'4015',C'MSG10'
          DC      X'4015'
          DC      C'          WORLD TRADE SYSTEMS CENTER, ACF/VTAM SYSTEM'
          DC      X'4015'
          DC      C'          SYSTEM MVS (20)'
          DC      X'4015'
          DC      C'For logon command syntax, press enter'
MSG10E    EQU      *
MSG11     DC      AL2(MSG11E-MSG11S)
MSG11S    DC      X'4015',C'MSG11'
          DC      C'          SESSIONS ENDED'
          DC      X'4015'
MSG11E    EQU      *
MSG12     DC      AL2(MSG12E-MSG12S)
MSG12S    DC      X'4015',C'MSG12'
          DC      X'4015'
          DC      C'          REQUIRED PARAMETER OMITTED'
MSG12E    EQU      *
END       USSEND
          END

```

4700 US4700

```

*****
* USSTAB USED FOR 4700
*****
US4700    USSTAB
TSOM      USSCMD  CMD=TSOM,REP=LOGON,FORMAT=BAL
          USSPARM  PARM=APPLID,REP=APPLID,DEFAULT=T200
          USSPARM  PARM=LOGMODE,REP=LOGMODE,DEFAULT=S3270
          USSPARM  PARM=P1,REP=DATA
          USSPARM  PARM=P2,REP=DATA
          USSPARM  PARM=P3,REP=DATA
          USSPARM  PARM=P4,REP=DATA
NCCF      USSCMD  CMD=NCCF,REP=LOGON,FORMAT=PL1
          USSPARM  PARM=APPLID,REP=APPLID,DEFAULT=N2000
          USSPARM  PARM=LOGMODE,REP=LOGMODE,DEFAULT=DSILGMOD
*        THE FOLLOWING CODE IS POSITIONAL DEPENDANT....DO NOT CHANGE
MESSAGES USSMSG  MSG=5,TEXT='THE FOLLOWING CONSTANTS FILL 249 BYTES
          ,
          USSMSG  MSG=2,TEXT='MAXIMUM MESSAGE
          ,
          USSMSG      MSG=10,TEXT='MAXIMUM MESSAGE
          ,
          USSMSG      MSG=4,TEXT='THE REQUESTED % IS INACTIVE...PLS RETRYX
          LATER'
PATCHBK  EQU      *
          ORG      ISTQ0001+4   ORG BACK TO OVERLAY MESSAGE
MSG5S     EQU      *
          DC      X'1540154015'
          DC      C'RALEIGH INTERNATIONAL SYSTEMS CENTER '
          DC      C'MVS/ACF/VTAM NETWORK'
          DC      X'154015'

```

X
X
X
X
X
X
X
X
X
X

```

DC      C'UNSUPPORTED FUNCTION AS ENTERED:'
DC      X'154015'
DC      C'PLEASE CHECK AND RE-ENTER',X'15'
*
MSG5E  EQU      *
*      THE FOLLOWING CONSTANT CLEARS THE RESET OF THE MACRO
*      GENERATED CONSTANT
MSG2S  ORG      ISTQ0002+4      ORG BACK TO OVERLAY MESSAGE
EQU      *
DC      X'154015'
DC      C'RALEIGH INTERNATIONAL SYSTEMS CENTER '
DC      C'MVS/ACF/VTAM NETWORK'
DC      X'154015'
DC      C'YOUR REQUEST % WAS NOT RECOGNIZED BY VTAM '
DC      C'AS A VALID APPLICATION COMMAND'
DC      X'154015'
DC      C'PLEASE CHECK AND RE-ENTER'
MSG2E  EQU      *
ORG      ISTQ0003+4      ORG BACK TO OVERLAY MESSAGE
MSG10S EQU      *
DC      X'1540154015'
DC      C'RALEIGH INTERNATIONAL SYSTEMS CENTER '
DC      C'MVS/ACF/VTAM NETWORK'
DC      X'154015'
DC      C'FOR APPLICATION LOGON ASSISTANCE '
DC      C'ENTER HELP '
MSG10E EQU      *
*      THE FOLLOWING CONSTANT CLEARS THE RESET OF THE MACRO
*      GENERATED CONSTANT
ORG      PATCHBK
MSG5L  EQU      (MSG5E-MSG5S)  LENGTH
MSG2L  EQU      (MSG2E-MSG2S)  LENGTH
MSG10L EQU      (MSG10E-MSG10S) LENGTH
END     USSEND
END

```

CHAPTER 5: DOS/VSE INSTALLATION

The examples included in this section should assist in the installation of a DOS/VSE system with local 3270s and a local attached 3725.

REFERENCES

ACF/VTAM Version 2 Planning and Installation Reference	SC27-0610
ACF/VTAM Version 2 Operation	SC27-0612
ACF/NCP Version 2 Installation	SC30-3167
ACF/NCP Version 2 Utilities	SC30-3168

DOS/VSE

I/O Device and IPL Procedure

```
* $$ JOB JNM=CATIPLPR,CLASS=0
// JOB CATIPLPR CATALOG IN PROC LIB
// LIBDEF PL,TO=IJSYSRS
// EXEC MAINT
      CATALP $IPLRSC,VM=0.0
07F,$$A$$SUPD,P,NOLOG
ADD 02A,3504
ADD 02C,3504
ADD 02D,3525P
ADD 02E,PRT1
ADD 00C,2540R
ADD 00D,3525P
ADD 00E,1403U
ADD 01F,1050A
ADD 0D2,2703
ADD 05E,3705,01
ADD 07F,3277
ADD 080,3277
ADD 081,3277
ADD 082,3277
ADD 083,3277
ADD 084,3277
ADD 085,3277
ADD 086,3277
ADD 087,3277
ADD 088,3277
ADD 089,3277
ADD 420,3277
ADD 421,3277
ADD 422,3277
ADD 423,3277
ADD 424,3277
ADD 425,3277
ADD 426,3277
ADD 427,3277
ADD 428,3277
ADD 429,3277
ADD 160,3330B
ADD 161,3330
ADD 162,3330
ADD 163,3330
ADD 164,3330
ADD 181,3420T9,D3
ADD 182,3420T9,D3
```

```

ADD 183,3420T9,D3
ADD 184,3420T9,D3
DEF SYSREC=160,SYSCAT=160
SVA SDL=200,PSIZE=512K,PSLD=32,GETVIS=16K
/+      END OF IPL PROCEDURE
/*
* $$ E0J

```

NOTE: IPL considerations

```

ADD xxx,3277      (Each terminal attached to 3272-1,2;
                  3274-1B,1D,21B,31D)
ADD xxx,3277,01  (Each printer attached to 3272-1,2;
                  3274-1B,1D,21B,31D)
ADD xxx,3791L    (Each 3274-1A,21A,31A; 3791 control units;
                  NO terminals)
ADD xxx,3705,01  (Each 3705 with channel adapters type 1 or 4)
ADD xxx,3705,02  (Each 3705 with channel adapters type 2 or 3)
ADD xxx,3705,01  (Each 3725)

```

ASI JCL Procedure

```

          CATALP $0JCLRSC,VM=0.0
* ==> ALLOCATIONS
SET SDL
$$BOCRTA,MOVE CRT
$$BOCRTC,MOVE CRT
$$BOCRTD,MOVE CRT
$$BOCRTG,MOVE CRT
$$BOCRTH,MOVE CRT
$$BOCRTQ,MOVE CRT
$$BOCRTZ,MOVE CRT
$$DATTNA,MOVE AIT
$$BATTNB,MOVE AIT
$$BATTNH,MOVE AIT
$$BOESTV,MOVE
$$BOKUL1,MOVE
$$BOMLTA,MOVE
$$BOMSV1,MOVE
$$BOMSV2,MOVE
$$BOPEN,MOVE
$$BOPEN1,MOVE
$$BOPEN2,MOVE
$$BOPIGN,MOVE
$$BOPLBL,MOVE
$$BCLOSE,MOVE
$$BCLOS2,MOVE
$$BCLOS5,MOVE
$$BCLRPS,MOVE
$$BOPENR,MOVE
$$BOPNR2,MOVE
$$BOPNR3,MOVE
$$BOIS03,MOVE
$$BOUR01,MOVE
$$BOSDC1,MOVE
$$BOCP01,MOVE
$$BOCP03,MOVE
$$BCVS02,MOVE VSAM
$$BCVSAM,MOVE VSAM
$$BOVSAM,MOVE VSAM
$$BSETL,MOVE ISAM
$$BSETL1,MOVE ISAM
DTSCDUMP,SVA
DTSPROCS,SVA
DTSSBMT1,SVA
LINKG02,SVA
IJVSPRDV,SVA
IJDPR3,SVA
DTSXTRCT,SVA

```

```

DFHIRP,SVA          CICS ROUGHLY ESTIMATED SIZE 8K
DFHSCTE,SVA        CICS ROUGHLY ESTIMATED SIZE 2K
/*
* ==> SET SYSTEM OPTIONS
STDOPT ALIGN=YES,ACANCEL=YES,CHARSET=60C,DATE=MDY,DECK=NO,EDECK=NO
STDOPT ERRS=YES,LINES=56,LIST=YES,LISTX=NO,LOG=YES,RLD=YES
STDOPT SXREF=YES,SYM=YES,SYSDMP=NO,TERM=NO,XREF=NO,DUMP=PART
PRTY BG,FB,FA,F9,F8,F7,F6,F5,F4,F2,F3,F1
* ==> ALLOCATIONS: F1 = POWER, F2 = CICSICCF, BG = BATCH
ALLOC F1=0750K,F2=4096K,F3=2892K,F4=1800K,F5=0512K,F6=0512K
ALLOC F7=0128K,F8=0128K,F9=0128K,FA=0128K,FB=0128K
ALLOCR F1=0040K,F2=0256K,F3=0200K,F4=0064K,F5=0064K,F6=0064K
ALLOCR F7=0000K,F8=0000K,F9=0000K,FA=0000K,FB=0000K,BG=0064K
// OPTION STDLABEL
* ==> SYSTEM STANDARD LABELS
* LIBRARY SET A
// DLBL IJSYSRS,'PROD.CORE.IMAGE.LIBRARY.A',99/365,SD
// EXTENT SYSRES,DOSRES,1,0,1,1652
// DLBL PRDCLA,'PROD.CORE.IMAGE.LIBRARY.A',99/365,SD
// EXTENT SYSRES,DOSRES,1,0,2,1423
// DLBL PRDRLA,'PROD.RELO.LIBRARY.A',99/365,SD
// EXTENT ,DOSRES,1,0,2432,190
// DLBL PRDSL A,'PROD.SOURCE.LIBRARY.A',99/365,SD
// EXTENT ,DOSRES,1,0,2622,418
* USER LIBS
// DLBL USRCL1,'USER.CORE.IMAGE.LIBRARY.ONE',99/365,SD
// EXTENT ,SYSWK1,1,0,19,228
// DLBL USRRL1,'USER.RELO.LIBRARY.ONE',99/365,SD
// EXTENT ,SYSWK1,1,0,247,247
// DLBL USRSL1,'USER.SOURCE.LIBRARY.ONE',99/365,SD
// EXTENT ,SYSWK1,1,0,2071,285
* VCNA LIBS
// DLBL VCNACL,'A5735RC5.SYSCLB',99/365,SD
// EXTENT ,SYSWK1,1,0,494,38
// DLBL VCNARL,'A5735RC5.SYSRLB',99/365,SD
// EXTENT ,SYSWK1,1,0,532,57
// DLBL VCNASL,'A5735RC5.SYSSLB',99/365,SD
// EXTENT ,SYSWK1,1,0,589,19
* TAF LIBS
// DLBL TAFCL,'TAF.E84.SYSCLB',99/365,SD
// EXTENT ,SYSWK1,1,0,722,19
// DLBL TAFRL,'TAF.E84.SYSRLB',99/365,SD
// EXTENT ,SYSWK1,1,0,741,38
// DLBL TAFSL,'TAF.E84.SYSSLB',99/365,SD
// EXTENT ,SYSWK1,1,0,779,19
* VTAM REL 1.3 LIBS
// DLBL VTMCL,'VTM.REL3.SYSCLB',99/365,SD
// EXTENT ,SYSWK1,1,0,1463,152
// DLBL VTMRL,'VTM.G42.SYSRLB',99/365,SD
// EXTENT ,SYSWK1,1,0,1615,304
// DLBL VTMSL,'VTM.G42.SYSSLB',99/365,SD
// EXTENT ,SYSWK1,1,0,1938,114
* VTAM VERSION 2.0 LIBS
// DLBL VTMV2CL,'VTM.E27.SYSCLB',99/365,SD
// EXTENT ,SYSWK1,1,0,6650,228
// DLBL VTMV2RL,'VTM.E27.SYSRLB',99/365,SD
// EXTENT ,SYSWK1,1,0,6878,456
// DLBL VTMV2SL,'VTM.E27.SYSSLB',99/365,SD
// EXTENT ,SYSWK1,1,0,7334,152
* POWER VERSION 2.0 LIBS
// DLBL POWV2CL,'POWERV2.CLB',99/365,SD
// EXTENT ,DOSRES,1,0,6878,57
// DLBL POWV2RL,'POWERV2.RLB',99/365,SD
// EXTENT ,DOSRES,1,0,6973,95
// DLBL POWV2SL,'POWERV2.SLB',99/365,SD
// EXTENT ,DOSRES,1,0,6935,38
* JEP & FTP LIBS
// DLBL JEPCL,'JEP.CORE.IMAGE.LIBRARY',99/365,SD
// EXTENT ,SYSWK1,1,0,608,19
// DLBL JEPRL,'JEP.RELO.LIBRARY',99/365,SD
// EXTENT ,SYSWK1,1,0,627,38
// DLBL JEPSL,'JEP.SOURCE.LIBRARY',99/365,SD
// EXTENT ,SYSWK1,1,0,665,19
// DLBL FTPSL,'FTP.SOURCE.LIBRARY',99/365,SD
// EXTENT ,SYSWK1,1,0,684,38

```



```

* ASSORTED NCCF USER LIBS
// DLBL CNMCL,'CNM.FSM.OBJ',99/365,SD
// EXTENT ,SYSWK1,1,0,798,19
// DLBL CNMSL,'CNM.FSM.SOURCE',99/365,SD
// EXTENT ,SYSWK1,1,0,817,19
// DLBL NCCFUSL,'NCCF.USER.SOURCE',99/365,SD
// EXTENT ,SYSWK1,1,0,836,247
// DLBL NCLIST,'NCCFR2.CLISTLIB',99/365,SD
// EXTENT ,SYSWK1,1,0,1083,380
* NPDA CORE IMAGE LIBRARY
// DLBL NPDACL,'NPDA.CORE.V2',99/365,SD
// EXTENT ,SYSWK1,1,0,6251,152
* LIBRARY SET B
// DLBL PRDCLB,'PROD.CORE.IMAGE.LIBRARY.B',99/365,SD
// EXTENT ,DOSRES,1,0,11305,361
// DLBL PRDRLB,'PROD.RELO.LIBRARY.B',99/365,SD
// EXTENT ,DOSRES,1,0,11666,38
// DLBL PRDSL B,'PROD.SOURCE.LIBRARY.B',99/365,SD
// EXTENT ,DOSRES,1,0,11704,855
* LIBRARY SET C
// DLBL PRDCLC,'PROD.CORE.IMAGE.LIBRARY.C',99/365,SD
// EXTENT ,DOSRES,1,0,4294,646
// DLBL PRDRLC,'PROD.RELO.LIBRARY.C',99/365,SD
// EXTENT ,DOSRES,1,0,4940,133
// DLBL PRDCLC,'PROD.SOURCE.LIBRARY.C',99/365,SD
// EXTENT ,DOSRES,1,0,5073,152
* LIBRARY SET D
// DLBL PRDCLD,'PROD.CORE.IMAGE.LIBRARY.D',99/365,SD
// EXTENT ,DOSRES,1,0,12806,665
// DLBL PRDRLD,'PROD.RELO.LIBRARY.D',99/365,SD
// EXTENT ,DOSRES,1,0,13471,114
// DLBL PRDSL D,'PROD.SOURCE.LIBRARY.D',99/365,SD
// EXTENT ,DOSRES,1,0,13585,589
* LIBRARY SET F
// DLBL PRDCLF,'PROD.CORE.IMAGE.LIBRARY.F',99/365,SD
// EXTENT ,DOSRES,1,0,7524,76
* LIBRARY SET G
// DLBL PRDCLG,'PROD.CORE.IMAGE.LIBRARY.G',99/365,SD
// EXTENT ,DOSRES,1,0,5225,760
// DLBL PRDRLG,'PROD.RELO.LIBRARY.G',99/365,SD
// EXTENT ,DOSRES,1,0,5985,152
// DLBL PRDSL G,'PROD.SOURCE.LIBRARY.G',99/365,SD
// EXTENT ,DOSRES,1,0,6137,418
* ACF/VTAM AND ACF/VTAME
// DLBL VTAMECL,'ACFVTAME.CORE.IMAGE.LIBRARY',99/365,SD
// EXTENT ,DOSRES,1,0,6555,133
// DLBL VTAMESL,'ACFVTAME.SOURCE.LIBRARY',99/365,SD
// EXTENT ,DOSRES,1,0,6688,114
// DLBL VTMEAUX,'ACFVTAME.HISTORY.FILE',99/365,SD
// EXTENT ,DOSRES,1,0,6802,19
* EP/VS
// DLBL EPVSCL,'EPVS.CORE.IMAGE.LIBRARY',99/365,SD
// EXTENT ,DOSRES,1,0,6821,038
// DLBL EPAUX,'EPVS.HISTORY.FILE',99/365,SD
// EXTENT ,DOSRES,1,0,6859,19
* SYTEM FILES
// DLBL IJSYSHF,'SYSTEM.HISTORY.FILE',99/365,SD
// EXTENT SYSREC,DOSRES,1,0,2014,171
// DLBL IJSYSCN,'HARDCOPY.FILE',99/365,SD
// EXTENT SYSREC,DOSRES,1,0,2185,114
// DLBL IJSYSRC,'RECORDER.FILE',99/365,SD
// EXTENT SYSREC,DOSRES,1,0,2299,57
// DLBL IJSYSCT,'VSAM.MASTER.CATALOG',99/365,VSAM
// EXTENT SYSCAT,DOSRES,1,0,2356,19
* POWER FILES
// DLBL IJAFI,'POWER.ACCOUNT.FILE',99/365,DA
// EXTENT SYS000,DOSRES,1,0,2375,19
// DLBL IJQFI,'POWER.QUEUE.FILE',99/365,DA
// EXTENT SYS001,DOSRES,1,0,2394,38
// DLBL IJDFI,'POWER.DATA.FILE',99/365,DA
// EXTENT SYS002,DOSRES,1,0,9557,1235
* ICCF FILES
// DLBL DTSFI,'ICCF.LIBRARY',99/365,DA
// EXTENT SYS010,DOSRES,1,0,3173,988
// DLBL DTSYDNC,'ICCF.DYNAMIC.SPACE.COLD',0,DA

```

```

// EXTENT SYS001,DOSRES,1,0,4161,95
// DLBL DTSYDYNW,'ICCF.DYNAMIC.SPACE.WARM',0,DA
// EXTENT SYS001,DOSRES,1,0,4256,38
// DLBL TTFL86P,'TTFL86P',0,DA
// EXTENT SYS014,DOSRES,1,0,14212,19
* VTOC ON 7600,0019
* PAGING DATA SET ON 7619,1368
* SNA WORK FILES
// DLBL IPCSDMP,'IPCSDMP',0,SD
// EXTENT SYS015,SYSWK2,1,0,2052,1387
// DLBL TRFILE,'VSEIPOE.SNA.VTAM.TRACE.FILE',99/365,SD
// EXTENT SYS001,DOSRES,1,0,7391,38
// DLBL PEPIPF,'VSEIPOE.SNA.NCPVS.LOAD.FILE',99/365,SD
// EXTENT SYS012,DOSRES,1,0,7429,38
// DLBL DIAGFLE,'VSEIPOE.SNA.EPVS.DIAG.FILE',99/365,SD
// EXTENT SYS008,DOSRES,1,0,7467,19
// DLBL EPIPF,'VSEIPOE.SNA.EPVS.LOAD.FILE',99/365,SD
// EXTENT SYS012,DOSRES,1,0,7486,38
* VSAM DATA SETS ON DOSRES
// DLBL SPACE,'VSAM.DATA.SPACE',0,VSAM
// EXTENT SYS040,DOSRES,1,0,10792,513
* CICS DATA SETS ON DOSRES
// DLBL DFHNTRA,'CICS.TD.INTRA',0,VSAM
// EXTENT SYS040,DOSRES
// DLBL DFHTEMP,'DFHTEMP',0,VSAM
// EXTENT SYS040,DOSRES
// DLBL DMXASL,'DMXASL',0,VSAM
// EXTENT SYS040,DOSRES
// DLBL DMXTTL,'TUTORIAL.VSAM.DATASET',0,VSAM
// EXTENT SYS040,DOSRES
// DLBL DFHDMPA,'CICS.DUMPA',0,SD
// EXTENT SYS041,DOSRES,1,0,12559,114
// DLBL DFHDMPB,'CICS.DUMPB',0,SD
// EXTENT SYS041,DOSRES,1,0,12673,38
// DLBL DFHSTM,'CICS.AUTO.STATSA',0,SD
// EXTENT SYS041,DOSRES,1,0,12711,38
// DLBL DFHAUXT,'CICS.AUXTRACE',0,SD
// EXTENT SYS041,DOSRES,1,0,12749,38
// DLBL MSGUSR,'CICS.MSGUSR',0,SD
// EXTENT SYS041,DOSRES,1,0,12787,19
* DOS DUMP FILE =====> IF NEEDED, ADD SYSWK2
// DLBL IJSYSDF,'DOS.DUMPFIL.DOSDMPF',0,SD
// EXTENT SYS016,SYSWK2,1,0,19,1387
// DLBL IJSYSDG,'DOS.DUMPFIL.DOSDMPG',0,SD
// EXTENT SYS016,SYSWK2,1,0,1406,0342
// OPTION PARSTD=BG
* BG WORK FILES =====> CHECK FOR OVERLAY WITH PAGE DATA SET
* =====> WORK AREA STARTS ON TRACK 10697
// DLBL IJSYSLN,'BG.WORK.LINK',0,SD
// EXTENT SYS001,DOSRES,1,0,3040,133
// DLBL IJSYS02,'BG.WORK.TWO',0,SD
// EXTENT SYS002,DOSRES,1,0,8987,95
// DLBL IJSYS03,'BG.WORK.THREE',0,SD
// EXTENT SYS003,DOSRES,1,0,9082,190
// DLBL IJSYS04,'BG.WORK.FOUR',0,SD
// EXTENT SYS004,DOSRES,1,0,9272,95
// DLBL IJSYS01,'BG.WORK.ONE',0,SD
// EXTENT SYS001,DOSRES,1,0,9367,190
// OPTION PARSTD=F2
* ICCF WORKFILES
// DLBL IJSYS01,'IJSYS01',0,SD
// EXTENT SYS001,DOSRES,1,0,14231,38
// DLBL IJSYS02,'IJSYS02',0,SD
// EXTENT SYS002,DOSRES,1,0,14269,38
// DLBL IKSYS11,'IKSYS11',0,SD
// EXTENT SYS001,DOSRES,1,0,14231,38
// DLBL IKSYS12,'IKSYS12',0,SD
// EXTENT SYS002,DOSRES,1,0,14269,38
// DLBL IKSYS13,'IKSYS13',0,SD
// EXTENT SYS003,DOSRES,1,0,14307,38
// DLBL IKSYS14,'IKSYS14',0,SD
// EXTENT SYS004,DOSRES,1,0,14345,38
// DLBL IKSYS21,'IKSYS21',0,SD
// EXTENT SYS001,DOSRES,1,0,14383,38
// DLBL IKSYS22,'IKSYS22',0,SD

```

```

// EXTENT SYS002,DOSRES,1,0,14421,38
// DLBL IKSYS23,'IKSYS23',0,SD
// EXTENT SYS003,DOSRES,1,0,14459,38
// DLBL IKSYS24,'IKSYS24',0,SD
// EXTENT SYS004,DOSRES,1,0,14497,38
// OPTION PARSTD=F3
// DLBL DIAGFLE,'VSEIPOE.SNA.NCPVS.DIAGFLE.FILE',99/365,SD
// EXTENT SYS008,DOSRES,1,0,7410,19
* ==> ASSIGNMENTS FOR BG WORKFILES
/*
ASSGN SYSLNK,DISK,VOL=DOSRES,SHR
ASSGN SYS001,DISK,VOL=DOSRES,SHR
ASSGN SYS002,DISK,VOL=DOSRES,SHR
ASSGN SYS003,DISK,VOL=DOSRES,SHR
ASSGN SYS004,DISK,VOL=DOSRES,SHR
// LIBDEF CL,SEARCH=(USRCL1,PRDCLA,PRDCLB,PRDCLC,PRDCLG),PERM
// LIBDEF CL,FROM=PRDCLA,TO=USRCL1,PERM
// LIBDEF RL,SEARCH=(USRRL1,PRDRLA,PRDRLC),PERM
// LIBDEF RL,FROM=USRRL1,TO=USRRL1,PERM
// LIBDEF SL,SEARCH=(USRSL1,PRDSL1,PRDSL2),PERM
// LIBDEF SL,FROM=USRSL1,TO=USRSL1,PERM
* ==> JUST BEFORE POWER START
START F1
STOP
ASSGN SYSLST,00E,PERM
ASSGN SYSPCH,00D,PERM
/+ // ASSGN SYSIN,00C,PERM
/*
        CATALP $1JCLRSC,DATA=YES,VM=0.0
// JOB POWER VERSION 2 START
// ASSGN SYS000,DISK,VOL=DOSRES,SHR
// ASSGN SYS001,DISK,VOL=DOSRES,SHR
// ASSGN SYS002,DISK,VOL=DOSRES,SHR
// LIBDEF CL,SEARCH=(POWV2CL,PRDCLD,VTMV2CL,USRCL1)
* VERSION 2 OF POWER START UP
// EXEC POWERV2,SIZE=400K
FORMAT=NO
PSTART BG,A0
READER=00C
PRINTERS=00E
PUNCHES=00D
PSTART F2,B2
READER=00C
PRINTERS=00E
PUNCHES=00D
PSTART F3,C3
READER=00C
PRINTERS=00E
PUNCHES=00D
PSTART F4,D4
READER=00C
PRINTERS=00E
PUNCHES=00D
PSTART F5,E5
READER=00C
PRINTERS=00E
PUNCHES=00D
PSTART F6,F6
READER=00C
PRINTERS=00E
PUNCHES=00D
PSTART F7,G7
READER=00C
PRINTERS=00E
PUNCHES=00D
PSTART F8,H8
READER=00C
PRINTERS=00E
PUNCHES=00D
PSTART F9,I9
READER=00C
PRINTERS=00E
PUNCHES=00D
PSTART FA,JK
READER=00C

```

```

PRINTERS=00E
PUNCHES=00D
PSTART FB,LM
READER=00C
PRINTERS=00E
PUNCHES=00D
PSTART RDR,00C
PSTART LST,00E
/*
/          CATALP  $2JCLRSC,VM=0.0
ASSGN SYSPCH,00D
ASSGN SYSLST,00E
// LIBDEF CL,SEARCH=(USRCL1,PRDCLA,PRDCLB,PRDCLC,PRDCLG),PERM
// LIBDEF CL,FROM=PRDCLA,TO=USRCL1,PERM
// LIBDEF RL,SEARCH=(USRRL1,PRDRLA,PRDRLC),PERM
// LIBDEF RL,FROM=USRRL1,TO=USRRL1,PERM
// LIBDEF SL,SEARCH=(USRSL1,PRDSL1,PRDSL2),PERM
// LIBDEF SL,FROM=USRSL1,TO=USRSL1,PERM
/+ // ASSGN SYSIN,00C,PERM
          CATALP  $3JCLRSC,VM=0.0
ASSGN SYSPCH,00D
ASSGN SYSLST,00E
// LIBDEF CL,SEARCH=(USRCL1,PRDCLA,PRDCLB,PRDCLC,PRDCLG),PERM
// LIBDEF CL,FROM=PRDCLA,TO=USRCL1,PERM
// LIBDEF RL,SEARCH=(USRRL1,PRDRLA,PRDRLC),PERM
// LIBDEF RL,FROM=USRRL1,TO=USRRL1,PERM
// LIBDEF SL,SEARCH=(USRSL1,PRDSL1,PRDSL2),PERM
// LIBDEF SL,FROM=USRSL1,TO=USRSL1,PERM
/+ // ASSGN SYSIN,00C,PERM
          CATALP  $4JCLRSC,VM=0.0
ASSGN SYSPCH,00D
ASSGN SYSLST,00E
// LIBDEF CL,SEARCH=(USRCL1,PRDCLA,PRDCLB,PRDCLC,PRDCLG),PERM
// LIBDEF CL,FROM=PRDCLA,TO=USRCL1,PERM
// LIBDEF RL,SEARCH=(USRRL1,PRDRLA,PRDRLC),PERM
// LIBDEF RL,FROM=USRRL1,TO=USRRL1,PERM
// LIBDEF SL,SEARCH=(USRSL1,PRDSL1,PRDSL2),PERM
// LIBDEF SL,FROM=USRSL1,TO=USRSL1,PERM
/+ // ASSGN SYSIN,00C,PERM
          CATALP  $5JCLRSC,VM=0.0
ASSGN SYSPCH,00D
ASSGN SYSLST,00E
// LIBDEF CL,SEARCH=(USRCL1,PRDCLA,PRDCLB,PRDCLC,PRDCLG),PERM
// LIBDEF CL,FROM=PRDCLA,TO=USRCL1,PERM
// LIBDEF RL,SEARCH=(USRRL1,PRDRLA,PRDRLC),PERM
// LIBDEF RL,FROM=USRRL1,TO=USRRL1,PERM
// LIBDEF SL,SEARCH=(USRSL1,PRDSL1,PRDSL2),PERM
// LIBDEF SL,FROM=USRSL1,TO=USRSL1,PERM
/+ // ASSGN SYSIN,00C,PERM
/*

```

NOTE: Information for preparing the DOS/VSE system is found in:

VSE/AF System Generation (SC33-6096)

VSE/AF System Control Statements (SC33-6095)

POWER/VS

POWER Version 2 Networking Definition

NOTE: More information about POWER V2 is found in:

CNM Remote Maintenance and Distribution GG24-1575

VSE/POWER Version 2 Networking Design Guide GG24-1570

POWER GENERATION.

Example of POWER Version 2 macro coding for subarea 12 follows. The SNA parameter has been changed to reflect a new APPLID and a new parameter, PNET, has been added.

```

* $$ JOB JNM=POWER,CLASS=0
// JOB POWER INSTALL
// OPTION CATAL
// DLBL SERVICE,'SERVICE.SYSSLB.A',99/365
// EXTENT SYS008,SYSWK2
// ASSGN SYS008,DISK,VOL=SYSWK2,SHR
// DLBL JEPSLB,'JEP.SOURCE.LIBRARY'
// EXTENT SYS009,SYSWK1
// ASSGN SYS009,DISK,VOL=SYSWK1,SHR
LIBDEF SL,SEARCH=(SERVICE,JEPSLB,PRDSL A,PRDSL B),TEMP
// EXEC ASSEMBLY,SIZE=80K
POWER2 POWER
        DBLK=0,
        TRACKGP=0,
        BLOCKGP=0,
        LTAB=(10,00,05,10,15,20,25,30,35,40,45,50,56),
        PRI=3,
        SUBLIB=S,
        ACCOUNT=YES,
        STDLINE=(0,0),
        STDCARD=(0,0),
        JLOG=YES,
        JSEP=(0,0),
        RBS=(0,0),
        RDREXIT=NO,
        PAUSE=NO,
        SPOOL=YES,
        SNA=(8,,RALVSE3), <-----
        FEED=NO,
        MULT12=NO,
        COPYSEP=YES,
        CLRPR T=YES,
        MRKFRM=YES,
        SHARED=NO,
        PNET=POWRJE3 <-----
        END
/*
LIBDEF CL,TO=USRCL1,TEMP
// EXEC LNKEDT
/&
* $$ EOJ

```

Example of PNET macro coding for subarea 12. The macro defines also the adjacent node RALVSMV3 subarea 11.

```

POWRJE3 PNODE NODE=RALVSE3,LOCAL=YES,APPLID=RALVSE3,AUTH=NET
PNODE NODE=RALVSMV3,APPLID=RALVSMV3,AUTH=NET
END

```

Example of APPL statement for sub-area 12 POWER networking. This statement is included in a B.source member accessible to VTAM.

```

RALVSE3 APPL AUTH=(ACQ,PASS),MODETAB=MTPNET,VPACING=3

```

ACF/VTAM

ACF/VTAM Network Definitions JCL

```

* $$ JOB JNM=CATBBOOK,CLASS=0
// JOB CATALS VTAM B.BOOKS

```

```

* THIS JOB CATALOGS ALL THE VTAM B.BOOKS NEEDED
// LIBDEF SL,TO=USRSL1
// EXEC MAINT
    CATALS B.node name
    BKEND B.node name

```

Insert network definition deck here

```

    BKEND
/*
/ &
* $$ E0J

```

NOTE: The above job can be used to catalog all the VTAM books.

ACF/VTAM Start Parameter Definition

```

    CATALS B.ATCSTR00,35.100
    BKEND B.ATCSTR00
*****
* VSE VTAM START LIST - ATCSTR00 - *
*****
NOPROMPT, <=== for automatic vtam start-up *
MAXAPPL=75, *
MAXSUBA=63, *
SSCPID=12, *
CONFIG=12, *
SUPP=NOSUP, *
HOSTSA=12, *
VTAMEAS=100, *
TNSTAT,TIME=5, *
NOTRACE,TYPE=VTAM, *
IOINT=0, *
LFBUF=(180,132,10,1,25), *
VFBUF=48576, *
VPBUF=512000 *
    BKEND

```

Note: The LFBUF(=132) parameter must be equal to UNITSZ parameter in the HOST NCP macro.

ACF/VTAM Start Definition (Live System)

NOTES: For automatic operation, ATCSTR00 should contain the parameters to be used by the network. The network should be tested first using the appropriate ATCSTRxx and then copied into ATCSTR00. ATCSTR00 is required by ACF/VTAM even if all defaults are taken. The sys defaults will not support more than one active application program and will not support an active NCP. ATCSTR12 specifies the values necessary to support a small NCP, application definitions, and local definitions. The ACF/VTAM virtual partition size should be about 900K and the ALLOCR size should be at least 36K.

NOTES: Always specify VPBUF=1048576 when initializing ACF/VTAM for the first time. It is possible to have problems due to small buffers, after that, you must tune the system to set the appropriate buffers values.

ACF/VTAM Start Parameter Definition

```
CATALS B.ATCSTR12,35.100
BKEND B.ATCSTR12
* *****
* VSE (S.A. 12) - VTAM START LIST - ATCSTR12 *
* *****
NOPROMPT,
MAXAPPL=75,
MAXSUBA=63,
SSCPID=12,
CONFIG=12,
SUPP=NOSUP,
HOSTSA=12,
VTAMEAS=100,
TNSTAT,TIME=5,
NOTRACE,TYPE=VTAM,
IOINT=0,
LFBUF=(180,132,10,1,25),
VFBUF=48576,
VPBUF=512000
BKEND
```

Network Configuration Definition

```
CATALS B.ATCCON12
BKEND B.ATCCON12
* *****
* VSE VTAM CONFIGURATION LIST - ATCCON12 - *
* *****
A12CICS,APPCON12, VTAM APPLICATIONS'VBUILD=APPL'- MAJOR NODE
A12CDN, VTAM CDNDT APPLS MAJOR NODE
A12CP, CPRESET - MAJOR NODE
A12JEP, VTAM JEP/POWER - MAJOR NODE
A12NCF, VTAM APPLICATIONS'VBUILD=APPL'- MAJOR NODE
A12TAF, VTAM NCCF TAF LU'S MAJOR NODE
A12VCNA, VM/VCNA - MAJOR NODE
D12PATH, VTAM PATH
H12L,ICCF3270, VTAM LOCAL SCREENS'LBUILD'- MAJOR NODE
M00, CDRM FOR ALL SUBAREAS
N139F3Q, NCP 13
R10ATSO,R10ANCF,R10APP,R10ACICS, REMOTE SA10 APPLS
R11ATSO,R11ANCF,R11APP, REMOTE SA11 APPLS
R21ATSO REMOTE SA21 APPLS
BKEND
```

ACF/VTAM Application Parameter Example

```
CATALS B.APPCON12
BKEND B.APPCON12
APPCON12 VBUILD TYPE=APPL
* *****
* APPLICATION PROGRAM DEFINITION FOR ACF/VTAM *
* WHERE THE OPERANDS AVAILABLE ARE: *
* ACBNAME=ACBNAME, MINOR NODE NAME. DEFAULTS TO NAME *
* ON APPL STATEMENT. *
* PRCT=PASSWORD, PASSWORD MUST ALSO BE DEFINED IN *
* APPLICATION PROGRAM 'ACB'. *
* VPACING=N, MAXIMUM NUMBER OF NORMAL-FLOW *
* REQUESTS FROM LU. *
* MODETAB=MODETAB NAME, NAME OF MODETAB TO BE USED BY THE *
* APPLICATION. *
* DLOGMOD=DEFAULT LOG- NAME OF LOGMODE ENTRY TO BE USED *
* MODE ENTRY IF NONE IS OTHERWISE PROVIDED. *
* EAS=N|404, NUMBER OF CONCURRENT SESSIONS THIS *
* APPLICATION PROGRAM WILL HAVE WITH *
* ANY LOGICAL UNITS. *
```

```

*           AUTH=(ACQ|NOACQ,           ALLOWS APPLICATION PROGRAM TO USE *
*                                           THE OPNDST MACRO WITH THE *
*                                           ACQUIRE OPTION. *
*           PPO|SPO|NOPO,             DEFAULTS TO NOPO. SEE THE PROGRAM *
*                                           OPERATOR GUIDE FOR ITS USE. *
*           BLOCK|NOBLOCK,            BASIC MODE ONLY. *
*           VPACE|NVPACE,             DETERMINES IF APPLICATION IS TO BE *
*                                           SUBJECT TO VPACING FOR LU. DEFAULTS *
*                                           TO VPACING. *
*           PASS|NOPASS)              ALLOWS USE OF CLSDST MACRO *
*                                           WITH THE PASS OPTION. *
*

```

```

*****
SYSSSS  APPL AUTH=(ACQ)
IPVSPGEN APPL AUTH=(ACQ)
DBDCCICS APPL AUTH=(PASS,ACQ)
DBDCTEST APPL AUTH=(PASS)
HOSTPGM1 APPL
SIRF    APPL AUTH=(ACQ)
DTRPOWER APPL AUTH=(ACQ)
RALVSE3  APPL AUTH=(ACQ,PASS),MODETAB=MTPNET,VPACING=3
RALVSE3B APPL AUTH=(ACQ,PASS),MODETAB=MTPNET,VPACING=3
BKEND

```

NOTE: Chapter 16 of the DOS/VSE ACF/VTAM V2 Installation (SC27-0610) describes the definition and filing of the application programs.

ACF/VTAM CDNDT Major Node

```

          CATALS B.A12CDN
          BKEND B.A12CDN
*****
*           VSE VTAM CDNDT APPLS MAJOR NODE *
*****
A12CDN  VBUILD TYPE=APPL
CDN12S11 APPL AUTH=(ACQ)
CDN12R11 APPL AUTH=(ACQ),EAS=1,VPACING=10
BKEND

```

ACF/VTAM CICS Major Node

```

          CATALS B.A12CICS
          BKEND B.A12CICS
*****
*           VSE VTAM CICS APPLS MAJOR NODE *
*****
A12CICS  VBUILD TYPE=APPL
CICS12   APPL ACBNAME=CICS12,AUTH=(ACQ,PASS,VPACE),EAS=20, X
          PARSESS=YES,VPACING=2
BKEND

```

ACF/VTAM CPRESET Major Node

```

          CATALS B.A12CP
          BKEND B.A12CP
*****
*           VSE VTAM CPRESET MAJOR NODE *
*****
A12CP   VBUILD TYPE=APPL
CPRESET APPL ACBNAME=CPRESET
BKEND

```


ACF/VTAM JEP/POWER Major Node

```
CATALS B.A12JEP
BKEND B.A12JEP
*****
*           VSE VTAM JEP/POWER MAJOR NODE (POWER RELEASE 1)           *
*****
A12JEP  VBUILD TYPE=APPL
POWER  APPL  MODETAB=LGJEPJES,VPACING=7,EAS=1
JEP12A11 APPL  MODETAB=LGJEPJES,VPACING=7,EAS=1
JEP12B11 APPL  MODETAB=LGJEPJES,VPACING=7,EAS=1
JEP12C11 APPL  MODETAB=LGJEPJES,VPACING=7,EAS=1
JEP12D11 APPL  MODETAB=LGJEPJES,VPACING=7,EAS=1
JEP12E11 APPL  MODETAB=LGJEPJES,VPACING=7,EAS=1
JEP12F11 APPL  MODETAB=LGJEPJES,VPACING=7,EAS=1
JEP12A01 APPL  MODETAB=LGJEPJES,VPACING=7,EAS=1
JEP12B01 APPL  MODETAB=LGJEPJES,VPACING=7,EAS=1
JEP12C01 APPL  MODETAB=LGJEPJES,VPACING=7,EAS=1
JEP12D01 APPL  MODETAB=LGJEPJES,VPACING=7,EAS=1
JEP12E01 APPL  MODETAB=LGJEPJES,VPACING=7,EAS=1
JEP12F01 APPL  MODETAB=LGJEPJES,VPACING=7,EAS=1
JEP12A21 APPL  MODETAB=LGJEPJES,VPACING=7,EAS=1
JEP12B21 APPL  MODETAB=LGJEPJES,VPACING=7,EAS=1
JEP12C21 APPL  MODETAB=LGJEPJES,VPACING=7,EAS=1
JEP12D21 APPL  MODETAB=LGJEPJES,VPACING=7,EAS=1
JEP12E21 APPL  MODETAB=LGJEPJES,VPACING=7,EAS=1
JEP12F21 APPL  MODETAB=LGJEPJES,VPACING=7,EAS=1
BKEND
```

ACF/VTAM NCCF Major Node

```
CATALS B.A12NCF
BKEND B.A12NCF
*****
*           VSE VTAM NCCF MAJOR NODE           *
*****
A12NCF  VBUILD TYPE=APPL
NCF12   APPL  AUTH=(ACQ,PASS),MODETAB=NCCFXDOM,EAS=6
NCF12PPT APPL  AUTH=(SPO),EAS=1
BNJDSERV APPL  AUTH=(CNM),EAS=1
NCF12000 APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=2
NCF12001 APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=2
NCF12002 APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=2
NCF12003 APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=2
NCF12004 APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=2
NCF12005 APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=2
NCF12006 APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=2
NCF12007 APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=2
NCF12008 APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=2
NCF12009 APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=2
BKEND
```

ACF/VTAM TAF Major Node

```
CATALS B.A12TAF
BKEND B.A12TAF
*****
*           VSE VTAM TAF MAJOR NODE           *
*****
TAF12   VBUILD TYPE=APPL
TAF12F00 APPL  MODETAB=MTLUTY2,EAS=9
TAF12F01 APPL  MODETAB=MTLUTY2,EAS=9
TAF12F02 APPL  MODETAB=MTLUTY2,EAS=9
TAF12F03 APPL  MODETAB=MTLUTY2,EAS=9
TAF12F04 APPL  MODETAB=MTLUTY2,EAS=9
TAF12F05 APPL  MODETAB=MTLUTY2,EAS=9
TAF12F06 APPL  MODETAB=MTLUTY2,EAS=9
TAF12F07 APPL  MODETAB=MTLUTY2,EAS=9
```

```

TAF12F08  APPL  MODETAB=MTLUTY2,EAS=9
TAF12F09  APPL  MODETAB=MTLUTY2,EAS=9
TAF12F10  APPL  MODETAB=MTLUTY2,EAS=9
TAF12000  APPL  MODETAB=MODETAB1,EAS=9
TAF12001  APPL  MODETAB=MODETAB1,EAS=9
TAF12002  APPL  MODETAB=MODETAB1,EAS=9
TAF12003  APPL  MODETAB=MODETAB1,EAS=9
TAF12004  APPL  MODETAB=MODETAB1,EAS=9
TAF12005  APPL  MODETAB=MODETAB1,EAS=9
TAF12006  APPL  MODETAB=MODETAB1,EAS=9
TAF12007  APPL  MODETAB=MODETAB1,EAS=9
TAF12008  APPL  MODETAB=MODETAB1,EAS=9
TAF12009  APPL  MODETAB=MODETAB1,EAS=9
TAF12010  APPL  MODETAB=MODETAB1,EAS=9
BKEND

```

ACF/VTAM VCNA Major Node

```

CATALS B.A12VCNA
BKEND B.A12VCNA
*****
*           VSE VTAM VCNA MAJOR NODE           *
*****
A12VCNA  VBUILD TYPE=APPL
VCNA12   APPL  ACBNAME=VMVCNACB
BKEND

```

ACF/VTAM PATH Major Node

```

CATALS B.D12PATH
BKEND B.D12PATH
*****
*           VSE VTAM PATH MAJOR NODE           *
*****
D12PATH  PATH  DESTSA=10,                                X
              ER0=(13,1),ER1=(13,1),ER2=(13,1),ER4=(13,1),  X
              ER6=(13,1),                                    X
              VR0=0,VR1=1,VR2=2,VR3=4,VR4=6
          PATH  DESTSA=11,                                X
              ER0=(13,1),ER3=(13,1),ER5=(13,1),            X
              VR0=0,VR1=0,VR2=0,VR3=3,VR4=5
          PATH  DESTSA=13,                                X
              ER0=(13,1),                                    X
              VR0=0,VR1=0,VR2=0
          PATH  DESTSA=14,                                X
              ER0=(13,1),ER1=(13,1),ER2=(13,1),ER4=(13,1), X
              ER6=(13,1),                                    X
              VR0=0,VR1=1,VR2=2,VR3=4,VR4=6
BKEND

```

NOTE: In this manual only the subareas 10, 11, 12, 13 and 14 were tested.

ACF/VTAM LOCAL Major Node

```

CATALS B.H12L
BKEND B.H12L
*****
*           VSE VTAM LOCAL MAJOR NODE           *
*****
H12L     LBUILD
H12L07F  LOCAL  CUADDR=07F,TERM=3277,FEATUR2=(MODEL2,NOEDATS), X
              MODETAB=MT3270,USSTAB=USSVSE
H12L080  LOCAL  CUADDR=080,TERM=3277,FEATUR2=(MODEL2,NOEDATS), X

```

```

H12L081 LOCAL   MODETAB=MT3270,USSTAB=USSVSE
              CUADDR=081,TERM=3277,FEATUR2=(MODEL2,NOEDATS), X
              MODETAB=MT3270,USSTAB=USSVSE
H12L082 LOCAL   CUADDR=082,TERM=3277,FEATUR2=(MODEL2,NOEDATS), X
              MODETAB=MT3270,USSTAB=USSVSE
H12L083 LOCAL   CUADDR=083,TERM=3277,FEATUR2=(MODEL2,NOEDATS), X
              MODETAB=MT3270,USSTAB=USSVSE
H12L084 LOCAL   CUADDR=084,TERM=3277,FEATUR2=(MODEL2,NOEDATS), X
              MODETAB=MT3270,USSTAB=USSVSE
H12L085 LOCAL   CUADDR=085,TERM=3277,FEATUR2=(MODEL2,NOEDATS), X
              MODETAB=MT3270,USSTAB=USSVSE
H12L086 LOCAL   CUADDR=086,TERM=3277,FEATUR2=(MODEL2,NOEDATS), X
              MODETAB=MT3270,USSTAB=USSVSE
H12L087 LOCAL   CUADDR=087,TERM=3277,FEATUR2=(MODEL2,NOEDATS), X
              MODETAB=MT3270,USSTAB=USSVSE
H12L088 LOCAL   CUADDR=088,TERM=3277,FEATUR2=(MODEL2,NOEDATS), X
              MODETAB=MT3270,USSTAB=USSVSE
H12L089 LOCAL   CUADDR=089,TERM=3277,FEATUR2=(MODEL2,NOEDATS), X
              MODETAB=MT3270,USSTAB=USSVSE
BKEND

```

ACF/VTAM LOCAL Major Node

```

          CATALS B.ICCF3270
          BKEND B.ICCF3270
*****
*          VSE VTAM LOCAL MAJOR NODE          *
*****
D72L300  LBUILD
D72L301  LOCAL   CUADDR=420,
              TERM=3277,
              FEATUR2=(MODEL2,SELPEN),
              ISTATUS=ACTIVE,
              MODETAB=MT3270,
              USSTAB=USSVSE,
              LOGAPPL=CICS12
D72L302  LOCAL   CUADDR=421,
              TERM=3277,
              FEATUR2=(MODEL2,SELPEN),
              ISTATUS=ACTIVE,
              MODETAB=MT3270,
              USSTAB=USSVSE,
              LOGAPPL=CICS12
D72L303  LOCAL   CUADDR=422,
              TERM=3277,
              FEATUR2=(MODEL2,SELPEN),
              ISTATUS=ACTIVE,
              MODETAB=MT3270,
              USSTAB=USSVSE,
              LOGAPPL=CICS12
D72L304  LOCAL   CUADDR=423,
              TERM=3277,
              FEATUR2=(MODEL2,SELPEN),
              ISTATUS=ACTIVE,
              MODETAB=MT3270,
              USSTAB=USSVSE,
              LOGAPPL=CICS12
D72L305  LOCAL   CUADDR=424,
              TERM=3277,
              FEATUR2=(MODEL2,SELPEN),
              ISTATUS=ACTIVE,
              MODETAB=MT3270,
              USSTAB=USSVSE,
              LOGAPPL=CICS12
D72L306  LOCAL   CUADDR=425,
              TERM=3277,
              FEATUR2=(MODEL2,SELPEN),
              ISTATUS=ACTIVE,
              MODETAB=MT3270,
              USSTAB=USSVSE,
              LOGAPPL=CICS12
D72L307  LOCAL   CUADDR=426,

```

```

                TERM=3277,
                FEATUR2=(MODEL2,SELPEN),
                ISTATUS=ACTIVE,
                MODETAB=MT3270,
                USSTAB=USSVSE,
                LOGAPPL=CICS12
P72L308  LOCAL  CUADDR=427,
                TERM=3284,
                FEATUR2=(MODEL2),
                ISTATUS=ACTIVE,
                MODETAB=MT3270,
                USSTAB=USSVSE,
                LOGAPPL=CICS12
                BKEND

```

ACF/VTAM CDRM Major Node

```

                CATALS B.M00
                BKEND B.M00
*****
*                   VSE VTAM CDRM FOR ALL SUBAREAS                   *
*****
                VBUILD TYPE=CDRM
M01          CDRM SUBAREA=01, ISTATUS=INACTIVE, CDRSC=OPT, CDRDYN=YES
M03          CDRM SUBAREA=03, ISTATUS=INACTIVE, CDRSC=OPT
M09          CDRM SUBAREA=09, ISTATUS=INACTIVE, CDRSC=OPT
M10          CDRM SUBAREA=10, ISTATUS=ACTIVE, CDRSC=OPT, CDRDYN=YES
M11          CDRM SUBAREA=11, ISTATUS=ACTIVE, CDRSC=OPT, CDRDYN=YES
M12          CDRM SUBAREA=12, ISTATUS=ACTIVE, CDRSC=OPT, CDRDYN=YES
M19          CDRM SUBAREA=19, ISTATUS=INACTIVE, CDRSC=OPT
M21          CDRM SUBAREA=21, ISTATUS=ACTIVE, CDRSC=OPT, CDRDYN=YES
M29          CDRM SUBAREA=29, ISTATUS=INACTIVE, CDRSC=OPT
M31          CDRM SUBAREA=31, ISTATUS=ACTIVE, CDRSC=OPT, CDRDYN=YES
M60          CDRM SUBAREA=60, ISTATUS=INACTIVE, CDRSC=OPT
M61          CDRM SUBAREA=61, ISTATUS=INACTIVE, CDRSC=OPT
                BKEND

```

ACF/VTAM NCP Major Node

```

                CATALS B.N139F3Q
                BKEND B.N139F3Q
*****
*                   VSE VTAM NCP MAJOR NODE                           *
*****

                *****
                * Source for ACF/NCP *
                * (See N139F3Q in Chapter 7) *
                *****

                BKEND

```

ACF/VTAM NCCF Major Node

```

                CATALS B.R11ANCF
                BKEND B.R11ANCF
*****
* R11ANCF
*****
                VBUILD TYPE=CDRSC
NCF11        CDRSC CDRM=M11
NCF11000     CDRSC CDRM=M11
NCF11001     CDRSC CDRM=M11
NCF11002     CDRSC CDRM=M11
NCF11003     CDRSC CDRM=M11
NCF11004     CDRSC CDRM=M11

```

```
NCF11005 CDRSC CDRM=M11
NCF11006 CDRSC CDRM=M11
NCF11007 CDRSC CDRM=M11
NCF11008 CDRSC CDRM=M11
NCF11009 CDRSC CDRM=M11
BKEND
```

ACF/VTAM REMOTE APPLS Major Node

```
CATALS B.R11APP
BKEND B.R11APP
*****
* R11APP
*****
VBUILD TYPE=CDRSC
ECHO11 CDRSC CDRM=M11
ECHO11A CDRSC CDRM=M11
NPA11 CDRSC CDRM=M11
HCF11 CDRSC CDRM=M11
SNAP11 CDRSC CDRM=M11
SEND11 CDRSC CDRM=M11
RECV11 CDRSC CDRM=M11
RALVSMV3 CDRSC CDRM=M11
BKEND
```

ACF/VTAM REMOTE APPLS Major Node

```
CATALS B.R11ATSO
BKEND B.R11ATSO
*****
* R11ATSO
*****
VBUILD TYPE=CDRSC
TS011 CDRSC CDRM=M11
TS01101 CDRSC CDRM=M11
TS01102 CDRSC CDRM=M11
TS01103 CDRSC CDRM=M11
TS01104 CDRSC CDRM=M11
TS01105 CDRSC CDRM=M11
TS01106 CDRSC CDRM=M11
TS01107 CDRSC CDRM=M11
TS01108 CDRSC CDRM=M11
TS01109 CDRSC CDRM=M11
TS01110 CDRSC CDRM=M11
TS01111 CDRSC CDRM=M11
TS01112 CDRSC CDRM=M11
TS01113 CDRSC CDRM=M11
TS01114 CDRSC CDRM=M11
TS01115 CDRSC CDRM=M11
TS01116 CDRSC CDRM=M11
TS01117 CDRSC CDRM=M11
TS01118 CDRSC CDRM=M11
TS01119 CDRSC CDRM=M11
TS01120 CDRSC CDRM=M11
BKEND
```

ACF/VTAM REMOTE APPLS Major Node

```
CATALS B.R11CDN
BKEND B.R11CDN
*****
* R11CDN
*****
R11CDN VBUILD TYPE=CDRSC
CDN11S10 CDRSC CDRM=M11
CDN11R10 CDRSC CDRM=M11
```

```

CDN11S12 CDRSC  CDRM=M11
CDN11R12 CDRSC  CDRM=M11
          BKEND

```

ACF/VTAM REMOTE APPLS Major Node

```

          CATALS B.R21ATSO
          BKEND B.R21ATSO
*****
* R21ATSO
*****
          VBUILD TYPE=CDRSC
TS021    CDRSC CDRM=M21
          BKEND

```

COSTAB Installation JCL

```

* $$ JOB JNM=COSTAB,DISP=D,CLASS=0
// JOB COSTAB
* *****
* *
* * THIS JOB ASSEMBLES A SAMPLE CLASS OF SERVICE TABLE AND LINK *
* * EDITS IT INTO THE VTAM CORE IMAGE LIBRARY. *
* *
* *****
// LIBDEF SL,SEARCH=VTMV2SL
// OPTION CATAL
  PHASE ISTSDCOS,*
// EXEC ASSEMBLY,SIZE=128K
ISTSDCOS COSTAB
ISTVTCOS COS VR=((7,2),(1,2),(2,2),(3,2),(4,2),(5,2),(6,2),(0,0))
CICS     COS VR=((7,2),(1,2),(0,2),(2,2),(3,2),(4,2),(0,0))
IMS      COS VR=((7,2),(1,2),(0,2),(2,2),(3,2),(4,2),(0,0))
NCCF     COS VR=((7,2),(1,2),(0,2),(2,2),(3,2),(4,2),(0,0))
TS0      COS VR=((0,2),(1,2),(2,2),(3,2),(4,2),(0,0))
TS01     COS VR=((1,2),(2,2),(0,2),(3,2),(4,2),(0,0))
TS02     COS VR=((2,2),(3,2),(0,2),(1,2),(4,2),(0,0))
TS03     COS VR=((3,2),(2,2),(1,2),(0,2),(4,2),(0,0))
TS04     COS VR=((4,2),(2,2),(3,2),(1,2),(0,2),(0,0))
TS07     COS VR=((7,2),(1,2),(2,2),(3,2),(0,2),(0,0))
NJE      COS VR=((7,2),(1,0),(0,0),(2,0),(3,0),(4,0))
ECHO00   COS VR=((0,0),(1,0),(2,0),(3,0),(4,0))
ECHO01   COS VR=((0,1),(1,1),(2,1),(3,1),(4,1),(0,0))
ECHO02   COS VR=((0,2),(1,2),(2,2),(3,2),(4,2),(0,0))
ECHO1    COS VR=((1,0),(2,0),(0,0),(3,0),(4,0))
ECHO11   COS VR=((1,1),(2,1),(0,1),(3,1),(4,1),(0,0))
ECHO12   COS VR=((1,2),(2,2),(0,2),(3,2),(4,2),(0,0))
          COS VR=((1,1),(2,1),(3,1),(4,1),(5,1),(6,1),(7,1),(0,0))
          COSEND
          END
/*
// LIBDEF CL,TO=USRCL1
// EXEC LNKEDT
/*
/&
* $$ EOJ

```

Note: In this manual only the ISTVTCOS and the last cos entry(=blank) were used.

USSTAB Installation JCL

```

* $$ JOB JNM=USSVSE,CLASS=0,DISP=D
* *****

```

```

* *
* * THIS JOB ASSEMBLES A USS TABLE FOR 3270 DEVICES AND LINK EDITS *
* * IT INTO THE VTAM CORE IMAGE LIBRARY. THE TABLE CONTAINS ENTRIES *
* * FOR EACH OF THE USS MESSAGES. *
* * *
* *****
// JOB USSVSE
// LIBDEF SL,SEARCH=(VTMV2SL,PRDSLCL),TEMP
// OPTION CATAL,NODUMP,NODECK,NOEDECCK
// PHASE USSVSE,*
// EXEC ASSEMBLY,SIZE=128K
*****
* *
* * Insert the USSVSE table here. *
* * (See chapter 4) *
* * *
*****
/*
// LIBDEF CL,TO=USRCL1,TEMP
// EXEC LNKEDT
/*
* $$ EOJ

```

Note: You should use ,* in the PHASE statement.

MODETAB Examples

```

* $$ JOB JNM=MT3270,CLASS=0,DISP=D
* *****
* *
* * THIS JOB ASSEMBLES A MODE TABLE FOR 3270 DEVICES AND *
* * LINK EDITS IT INTO THE VTAM CORE IMAGE LIBRARY. *
* * *
* *****
// JOB MT3270
// LIBDEF SL,SEARCH=(VTMV2SL,PRDSLCL),TEMP
// OPTION CATAL,NODUMP,NODECK,NOEDECCK
// PHASE MT3270,*
// EXEC ASSEMBLY,SIZE=128K
*****
* *
* * Insert the MT3270 table here. *
* * (See chapter 4) *
* * *
*****
/*
// LIBDEF CL,TO=USRCL1,TEMP
// EXEC LNKEDT
/*
* $$ EOJ

```

ACF/NCP

Example for Installing 3705 Initial Tests

```
// JOB CREATE 3705 INITIAL TEST FILE
// DLBL IJSYSPH,'VSEIPOE.SNA.NCPVS.DIAGFLE.FILE',99/365,SD
// EXTENT SYSPCH,DOSRES,1,0,7467,19
ASSGN SYSPCH,SYSRES
// EXEC CSERV
    PUNCH IFU3705D,IFU3705E
/*
/&
CLOSE SYSPCH,X'00D'
/&
```

ACF/NCP Stage 1 Generation JCL

```
// JOB ACF/NCP STAGE1 GENERATION
// DLBL IJSYSSL,'SERVICE.SYSSLB.F'
// EXTENT ,SYSWK4,1,0,11704,855
// LIBDEF SL,SEARCH=SRVSLF,PERM
// DLBL IJSYSRL,'SERVICE.SYSRLB.F'
// EXTENT ,SYSWK4,1,0,11704,855
// LIBDEF RL,SEARCH=SRVRLF,PERM
// OPTION DECK,NOXREF
// EXEC IFZASM,SIZE=64K
*****
*
*          SOURCE FOR ACF/NCP N139F3Q
*          (See chapter 7)
*
*****
/*
/&
```

NOTE- This step will produce the cards necessary for the rest of the NCP generation. The output of this stage will have to be adjusted to point to the ACF/NCP macro library, if the ACF/NCP macros are put in a private library. The assemblies produced by the stage 1 jobstream should be error free. The link-edit stage will have unresolved EXTRNS, but if all the assembly steps were correct, these can be ignored. If you are a SIPO user you must first restore the respective SERVICE libraries.

PLEASE NOTE

The stage 1 output should be closely examined. Defaults do not create MNOTES. All defaults should be checked for correct value.

ACF/NCP Stage 2 Generation JCL

```
// JOB ACF/NCP STAGE2 GENERATION
// DLBL IJSYSSL,'SERVICE.SYSSLB.F'
// EXTENT ,SYSWK4,1,0,11704,855
// LIBDEF SL,SEARCH=SRVSLF,PERM
// DLBL IJSYSRL,'SERVICE.SYSRLB.F'
// EXTENT ,SYSWK4,1,0,11704,855
// LIBDEF RL,SEARCH=SRVRLF,PERM
// OPTION DECK,NOXREF
// EXEC IFZASM,SIZE=64K
*****
*
*          STAGE 2 INPUT GOES HERE          *
*          (STAGE 1 OUTPUT)                 *
*
*****
/*
/ &
```

NOTE: This is an example of the jobstream needed for the assembly of one of the ACF/NCP stages. There are approximately 15 stages. Each of the stages will produce an object module that should be stored using the next example. The final step is a link-edit that will store the generated ACF/NCP load module in the system core-image library.

ACF/NCP Stage 3 Generation JCL

```
// JOB ACF/NCP STAGE3 GENERATION
// DLBL IJSYSSL,'SERVICE.SYSSLB.F'
// EXTENT ,SYSWK4,1,0,11704,855
// LIBDEF SL,SEARCH=SRVSLF,PERM
// DLBL IJSYSRL,'SERVICE.SYSRLB.F'
// EXTENT ,SYSWK4,1,0,11704,855
// LIBDEF RL,SEARCH=SRVRLF,PERM,TO=USRRL1
// LIBDEF CL,TO=USRCL1
// EXEC MAINT
*****
*
*          STAGE 3 INPUT GOES HERE
*          (STAGE 2 OUTPUT)
*
*****
/*
/ &
```

NOTE: This library is used by the link-edit stage. If a new ACF/NCP generation is required, a different library should be specified unless the old ACF/NCP is not to be updated.

Sample for Moving ACF/NCP Load Module

```
// JOB PUNCH NCPSSS
// DLBL IJSYSPH,'VSEIPOE.SNA.NCPVS.LOAD.FILE',99/365,SD
// EXTENT SYSPCH,DOSRES,1,0,7429,38
// ASSGN SYSPCH,SYSRES
// LIBDEF CL,SEARCH=USRCL1
// EXEC CSERV
  PUNCH N139F3Q
/*
CLOSE SYSPCH,X'00D'
/ &
```

NOTE: This step is required for DOS/VSE ACF/VTAM. ACF/VTAM expects to find the ACF/NCP load module in a file specified in the ACF/VTAM start procedure. If the ACF/NCP Generation is done on another VSE system, at least two phases must be punched for the new system, xxxxxxx and xxxxxxxR where xxxxxxx is the ACF/NCP name specified in the newname parameter of the ACF/NCP build macro. xxxxxxxR is the resource resolution table.

Sample JCL to Dump a 3705 and Print the Dump

```
// JOB DUMP DOS ACF/NCP
// ASSIGN SYS007,X'05E'
// DLBL NCPDUMP,'VSEIPOE.SNA.NCPVS.DUMP.FILE',99/365,DA
// EXTENT SYS008,DOSRES,1,0,7467,76
// ASSIGN SYS008,DOSRES
// EXEC IFUREAD
// DUMP FROMADDR=200,FORMAT=Y,BUF=Y
/*
/ &
```

NOTE: The use of FBA devices, such as 3310 or 3370 in the dump routines was implemented using VSAM, then, VSAM data space must be allocated to receive the dump data.

NOTE: Options for this procedure are found in ACF/NCP/VS Version 2 Utilities SC30-3168.

Sample JCL to Print a 3705 Dump Taken by ACF/VTAM

```
// JOB PRINT DOS ACF/NCP
// DLBL NCPDUMP,'VSEIPOE.SNA.NCPVS.DUMP.FILE',99/365,DA
// EXTENT SYS008,DOSRES,1,0,7467,76
// ASSIGN SYS008,SYSRES
// EXEC IFUDUMP
// DUMP FROMADDR=200,FORMAT=Y,BUF=Y
/*
/ &
```

NOTE: The use of FBA devices, such as 3310 or 3370 in the dump routines, was implemented using VSAM, then, VSAM data space must be allocated to receive the dump data.

NOTE: Options for this procedure are found in ACF/NCP/VS Version 2 Utilities SC30-3168.

Sample JCL to Dump a 3705 and Print the Dump Using VSAM (FBA Devices)

```
// JOB DEFINE VSAM SPACE
// DLBL IJSYSUC,'NPDA.NCCF.USER.CATALOG',99/365,VSAM
// EXTENT ,SYSWK1
// DLBL NCPDUMP,'VSEIPOE.SNA.NCPVS.DUMP.FILE',,VSAM
// EXTENT ,SYSWK1
// EXEC IDCAMS,SIZE=AUTO
  DEFINE CLUSTER
    NAME(VSEIPOE.SNA.NCPVS.DUMP.FILE) -
    FILE(NCPDUMP) -
    NUMBERED -
    RECORDSIZE(512 512) -
    BLOCKS(744 62) -
    REUSE -
    VOL(SYSWK1) -
    CATALOG(NPDA.NCCF.USER.CATALOG)
/*
/&
// JOB DUMP DOS ACF/NCP
// DLBL IJSYSUC,'NPDA.NCCF.USER.CATALOG',99/365,VSAM
// EXTENT ,SYSWK1
// DLBL NCPDUMP,'VSEIPOE.SNA.NCPVS.DUMP.FILE',,VSAM
// EXTENT ,SYSWK1
// ASSGN SYS007,05E 3705
// ASSGN SYS008,DASD,VOL=SYSWK1,SHR
// EXEC IFUREAD
  DUMP FROMADDR=200,FORMAT=Y,BUF=Y
/*
/&
```

ACF JCL

ACF/VTAM Start Procedure

```
* $$ JOB JNM=CATAL
// JOB CATAL PROCEDURE VTAMV2
// LIBDEF PL,TO=IJSYSRS
// EXEC MAINT
  CATALP VTAMV2,DATA=YES,EOP=/&
* *****
* THIS JOB CATALOG THE JCL NEEDED TO BRING UP VTAM *
* *****
* *****
* VSAM CATALOGS *
* *****
// DLBL IJSYSCT,'VSAM.MASTER.CATALOG',99/365,VSAM
// EXTENT ,DOSRES
// DLBL IJSYSUC,'NPDA.NCCF.USER.CATALOG',99/365,VSAM
// EXTENT ,SYSWK1
* *****
* NPDA DATA BASES *
* *****
// DLBL BNJLGPR,'SA12.BNJLGPRI',99/365,VSAM
// EXTENT ,SYSWK1
// DLBL BNJLGSE,'SA12.BNJLGSEC',99/365,VSAM
// EXTENT ,SYSWK1
* *****
* NCCF DATA BASES *
* *****
// DLBL DSILOG,'NCCFLOGA',99/365,VSAM
// EXTENT ,SYSWK1
// DLBL DSILOGS,'NCCFLOGB',99/365,VSAM
// EXTENT ,SYSWK1
* *****
* VTAM TRACE FILE *
* *****
// ASSGN SYS001,DISK,VOL=DOSRES,SHR
// DLBL TRFILE,'VSEIPOE.SNA.VTAM.TRACE.FILE',0,SD
// EXTENT SYS001,DOSRES,1,0,7391,38
* *****
* NCP DUMP FILE *
* *****
// ASSGN SYS005,DISK,VOL=DOSRES,SHR
// DLBL NCPDUMP,'VSEIPOE.SNA.NCPVS.DUMP.FILE',99/365,SD
// EXTENT SYS005,DOSRES,1,0,7467,76
```

```

* *****
* NCP DIAG FILE *
* *****
// ASSGN SYS006,DISK,VOL=DOSRES,SHR
// DLBL DIAGFLE,'VSEIPOE.SNA.NCPVS.DIAGFLE.FILE'
// EXTENT SYS006,DOSRES
* *****
* NCP LOAD FILE *
* *****
// ASSGN SYS010,DISK,VOL=DOSRES,SHR
// DLBL NCPLOAD,'VSEIPOE.SNA.NCPVS.LOAD.FILE'
// EXTENT SYS010,DOSRES
* *****
* LIBRARIES *
* *****
// ASSGN SYS000,UA
// DLBL VTAMV2,'VTM.E27.SYSCLB'
// EXTENT ,SYSWK1
// LIBDEF SL,TO=USRSL1,SEARCH=USRSL1
// LIBDEF CL,SEARCH=(VTAMV2,USRCL1,PRDCLC,PRDCLF,IJSYSRS)
* USING LIST=12 FOR NORMAL CROSS DOMAIN OPERATION
// EXEC ISTINCVT,SIZE=800K
/*
// EXEC PRINTLOG
/$
/*
/&
* $$ EOJ

* $$ JOB JNM=VTAMV2,CLASS=3,DISP=L
// JOB VTAM BRING UP VTAM VERSION 2
// EXEC PROC=VTAMV2
/*
/&
* $$ EOJ

```

NOTE: Do not use SIZE=AUTO for the EXEC=ISTINCVT statement on the VTAM startup deck.

OCCF Start Procedure

```
* $$ JOB JNM=CATAL
// JOB CATAL PROCEDURE OCCFV2
// LIBDEF PL,TO=IJSYSRS
// EXEC MAINT
  CATALP OCCFV2,DATA=YES,EOP=/$
* *****
* THIS JOB CATALOG THE JCL NEEDED TO BRING UP NCCF AND NPDA *
* AS A VTAM APPLICATION RUNNING AS A SUBTASK OF OCCF. *
* *****
* *****
* VSAM CATALOGS *
* *****
// DLBL IJSYSCT, 'VSAM.MASTER.CATALOG', 99/365, VSAM
// EXTENT ,DOSRES
// DLBL IJSYSUC, 'NPDA.NCCF.USER.CATALOG', 99/365, VSAM
// EXTENT ,SYSWK1
* *****
* NCCF DATA BASES *
* *****
// DLBL DSILOG, 'NCCFLOGA', 99/365, VSAM
// EXTENT ,SYSWK1
// DLBL DSILOGS, 'NCCFLOGB', 99/365, VSAM
// EXTENT ,SYSWK1
* *****
* NPDA DATA BASES *
* *****
// DLBL BNJLGPR, 'SA12.BNJLGPR', 99/365, VSAM
// EXTENT ,SYSWK1
// DLBL BNJLGSE, 'SA12.BNJLGSEC', 99/365, VSAM
// EXTENT ,SYSWK1
*
// EXEC IDCAMS,SIZE=AUTO
  VERIFY FILE(DSILOG)
  VERIFY FILE(DSILOGS)
  VERIFY FILE(BNJLGPR)
  VERIFY FILE(BNJLGSE)
/*
```

```

* *****
* LIBRARIES *
* *****
// DLBL VTAMV2,'VTM.E27.SYSCLB'
// EXTENT ,SYSWK1
// LIBDEF CL,SEARCH=(VTAMV2,USRCL1)
// EXEC CKNCCF
/*
* *****
* LIBRARIES *
* *****
// DLBL VTAMV2,'VTM.E27.SYSCLB'
// EXTENT ,SYSWK1
* *****
* VSAM CATALOGS *
* *****
// DLBL IJSYSCT,'VSAM.MASTER.CATALOG',99/365,VSAM
// EXTENT ,DOSRES
// DLBL IJSYSUC,'NPDA.NCCF.USER.CATALOG',99/365,VSAM
// EXTENT ,SYSWK1
* *****
* NCCF DATA BASES *
* *****
// DLBL DSILOG,'NCCFLOGA',99/365,VSAM
// EXTENT ,SYSWK1
// DLBL DSILOGS,'NCCFLOGB',99/365,VSAM
// EXTENT ,SYSWK1
* *****
* NPDA DATA BASES *
* *****
// DLBL BNJLGPR,'SA12.BNJLGPR',99/365,VSAM
// EXTENT ,SYSWK1
// DLBL BNJLGSE,'SA12.BNJLGSEC',99/365,VSAM
// EXTENT ,SYSWK1
* *****
* LIBRARIES *
* *****
// LIBDEF CL,SEARCH=(NPDA,VTAMV2,PRDCLC,TAFLC,CNMCL)
// LIBDEF SL,SEARCH=(NCLIST,NCCFUSL)
// OPTION NODUMP
// EXEC OCCF4,SIZE=760K
/$
/*
/&
* $$ EOJ

* $$ JOB JNM=OCCFV2,CLASS=4,DISP=L
// JOB OCCFV2 BRING UP OCCF VERSION 2
// EXEC PROC=OCCFV2
/*
/&
* $$ EOJ

```


NCCF/NPDA Start Procedure

In VSE, NCCF runs as either a VSE task (job step), as a subtask of ACF/VTAM, or VSE/OCCF (see OCCF start jcl). When running as a subtask of VTAM, NCCF runs in the same key and state as VTAM (Supervisor State, Key 0). This means that User Exits run in this environment. Therefore, it is possible for a user program not only to do global damage to NCCF but also to VTAM and VSE. It is recommended, if possible, that new code be checked by running NCCF as a VSE jobstep task, thus providing the protection of user state/non-zero key while doing User Exit debugging.

NCCF can be started as an ACF/VTAM subtask by issuing the command:

```
F NET,ATTACH,ID=DSIDPR
```

After NCCF is initialized it issues the following message:

```
DSI802A domainid REPLY WITH VALID NCCF SYSTEM OPERATOR  
COMMAND
```

The operator then enters:

```
F NET,MSG,ID=DSIDPR
```

NCCF replies with the message:

```
DSI807A NCCF READY FOR COMMUNICATION
```

The operator can then enter NCCF commands (like NPDA) and reply to outstanding NCCF requests for system operator responses.

NCCF can be started as an VSE jobstep by issuing this jcl:

```
* $$ JOB JNM=NCCF,DISP=L
* *****
* THIS JOB CAN BE USED TO BRING UP NCCF (and NPDA) *
* *****
* *****
* VSAM CATALOGS *
* *****
// DLBL IJSYSCT,'VSAM.MASTER.CATALOG',99/365,VSAM
// EXTENT ,DOSRES
// DLBL IJSYSUC,'NPDA.NCCF.USER.CATALOG',99/365,VSAM
// EXTENT ,SYSWK1
* *****
* NCCF DATA BASES *
* *****
// DLBL DSILOG,'NCCFLOGA',99/365,VSAM
// EXTENT ,SYSWK1
// DLBL DSILOGS,'NCCFLOGB',99/365,VSAM
// EXTENT ,SYSWK1
* *****
* NPDA DATA BASES *
* *****
// DLBL BNJLGPR,'SA12.BNJLGPRI',99/365,VSAM
// EXTENT ,SYSWK1
// DLBL BNJLGSE,'SA12.BNJLGSEC',99/365,VSAM
// EXTENT ,SYSWK1
* *****
* LIBRARIES *
* *****
// DLBL VTAMV2,'VTM.E27.SYSCLB'
// EXTENT ,SYSWK1
// LIBDEF SL,TO=USRSL1,SEARCH=USRSL1
// LIBDEF CL,SEARCH=(VTAMV2,USRCL1,PRDCLC,PRDCLF,IJSYSRS)
// EXEC DSIDPR,SIZE=AUTO
/*
// EXEC PRINTLOG
/*
* $$ EOJ
```

The NCCF chapter has more information about NCCF VSE installation steps.

The following manuals have more information about NCCF:

NCCF Installation	SC27-0430
NCCF Messages	SC27-0431
CNM Customizing NCCF	GG24-1554

VCNA Start Procedure

```
* $$ JOB JNM=VCNA,DISP=L,CLASS=6
// JOB VCNA
* *****
* *
* * THIS JOB WILL BRING UP VM/VCNA AS A VTAM APPLICATION IN ITS *
* * OWN PARTITION. THE FIRST STEP IN THE JOB RUNS A PROGRAM *
* * WHICH CHECKS FOR THE PRESENCE OF VTAM AND, IF IT IS NOT YET *
* * UP, WAITS AND RETRIES AFTER 30 SECONDS. WHEN VTAM IS UP THE *
* * FIRST STEP COMPLETES AND VCNA WILL THEN START. *
* *
* *****
* *****
* LIBRARIES *
* *****
// DLBL VTAMV2,'VTM.E27.SYSCLB'
// EXTENT ,SYSWK1
// LIBDEF CL,SEARCH=(VTAMV2,USRCL1)
// EXEC CKVCNA
/*
* *****
* LIBRARIES *
* *****
// DLBL VTAMV2,'VTM.E27.SYSCLB'
// EXTENT ,SYSWK1
// LIBDEF CL,SEARCH=(VCNA CL,VTAMV2,USRCL1,PRDCLC)
// ASSGN SYSLST,00E
// ASSGN SYSPCH,00D
// EXEC DTIISTRT,SIZE=AUTO
/*
/&
* $$ EOJ
```

Note: The first step is optional.

Sample JCL to Print an ACF/VTAM Trace Out of VTAM Partition

```
* $$ JOB JNM=TPRINT,CLASS=0,DISP=1
// JOB TPRINT
* *****
* THIS JOB PRINT AN ACF/VTAM TRACE *
* *****
* *****
* VTAM TRACE FILE *
* *****
// ASSGN SYS001,DISK,VOL=DOSRES,SHR
// DLBL TRFILE,'VSEIPOE.SNA.VTAM.TRACE.FILE',0,SD
// EXTENT SYS001,DOSRES,1,0,7391,38
* *****
* LIBRARIES *
* *****
// DLBL VTAMV2,'VTM.E27.SYSCLB'
// EXTENT ,SYSWK1
// LIBDEF CL,SEARCH=(VTAMV2,USRCL1,PRDCLC,PRDCLF,IJSYSRS)
// EXEC TPRINT,SIZE=800K
PRINT BUF=ALL,CLEAR=YES
/*
/&
* $$ EOJ
```

NOTE: A full description of trace options can be found in ACF/VTAM V2 Operation under the section 'Trace Print Options'. Actual analysis of ACF/VTAM traces can be found in ACF/VTAM V2 Diagnosis Guide and ACF/SNA System Problem Determination Guide. See Appendix B: Bibliography.

Sample Commands to Start and Print an ACF/VTAM Trace in the VTAM Partition

To start a trace you enter:

```
f net,trace,id=luname,type=trace-type
```

Where: trace-type can be BUF, IO, LINE.

To stop the trace you enter:

```
f net,notrace,id=luname,type=trace-type
```

Where: trace-type can be BUF, IO, LINE.

To print the trace file you enter:

```
f net,tprint
```

Then when prompted, enter:

```
print buf=luname,io=luname
```

Below is a sample console listing:

```
f net,trace,id=inbatch3,type=buf
=>
AR 16 0P69I INTERV REQ  BG 00C
F1 07 5A97I  MODIFY    ACCEPTED
F1 07 5F13I  TRACE INITIATED FOR NODE INBATCH3
f net,trace,id=inbatch3,type=io
=>
AR 16 0P69I INTERV REQ  BG 00C
F1 07 5A97I  MODIFY    ACCEPTED
F1 07 5F13I  TRACE INITIATED FOR NODE INBATCH3
f net,notrace,id=inbatch3,type=io
=>
AR 16 0P69I INTERV REQ  BG 00C
F1 07 5A97I  MODIFY    ACCEPTED
F1 07 5F12I  TRACE TERMINATED FOR NODE= INBATCH3
f net,notrace,id=inbatch3,type=buf
=>
AR 16 0P69I INTERV REQ  BG 00C
F1 07 5A97I  MODIFY    ACCEPTED
F1 07 5F12I  TRACE TERMINATED FOR NODE= INBATCH3
```

```

f net,tprint
=>
AR 16 0P69I INTERV REQ  BG 00C
F1 07 5A97I  MODIFY    ACCEPTED
F1 11 5K00I  TRACE PRINT UTILITY STARTED
F1 07 5C66I  TPRINT    STARTED
F1 11 5K07A  SNAPSHOT MODE TPRINT? ENTER Y OR N
F1-11
11 n
=>
F1 11 5K05A  ENTER TRACE PRINT OPTIONS OR 'CANCEL'
F1-11
11 print buf=inbatch3,io=inbatch3,clear=yes
=>
F1 07 5F05I  VTAM TRACE SUBTASK ENDED
F1 11 5K10I  TRACE PRINT UTILITY ENDED
F1 07 5F04I  VTAM TRACE SUBTASK STARTED
F1 07 5B09I  TPRINT    IS NOW TERMINATED

```

NOTE: A full description of trace options can be found in ACF/VTAM V2 Operation under the section 'Trace Print Options'. Actual analysis of ACF/VTAM traces can be found in ACF/VTAM V2 Diagnosis Guide and ACF/SNA System Problem Determination Guide.

Initial Test with the IBMTEST Command

Once the network has been activated by ACF/VTAM, the keyboard terminal user can test the physical path between ACF/VTAM and his terminal. Using the IBMTEST command enables the user to find out if all his initial definitions are working correctly or not, independent of his application programs. The command IBMTEST causes test data to be returned a specified number of times to the terminal. The terminal user may specify the test data characters, or if no data is given, a predefined sequence will be supplied by ACF/VTAM. After the logical unit has been activated (USS-message 10 received) the terminal operator may enter:

```
IBMTEST <n|10><,userdata>
```

n|10 ==> Number of times the test data should be returned. The maximum value of n is 255. The default value is 10.

userdata ==> Test data to be sent back to the terminal. The default data are the characters A-Z and 0-9.

If an error occurs during IBMTEST ACF/VTAM will issue an error message on the operator console. The following error message is an example of an I/O error during the test phase:

```
5E73I CONNECTIVITY TEST TO NNNNNNNN TERMINATED AFTER X ECHOES DUE TO
I/O ERROR, SENSE: 08060000
5E73I CONNECTIVITY TEST TO NNNNNNNN TERMINATED AFTER X ECHOES DUE TO
```

If the IBMTEST command is working correctly, the user can start with the implementation of the user's application programs (e.g, CICS/VS).

Otherwise, proceed to problem determination.

ACF/VTAM termination

To stop ACF/VTAM the commands:

```
Z NET or
Z NET,QUICK
```

can be used at the system console.

The Z NET command is used to request a normal halt of ACF/VTAM. New sessions are not permitted but current sessions can continue their operations.

The Z NET,QUICK command can be used to halt ACF/VTAM more quickly than with a normal halt command, however, this command disrupts LU-to-LU sessions.

Automatic System Initialization

The following ideas have been suggested in CNM Managing Interconnected Systems GG24-1539-0. It is possible to find more detailed information in the above manual. IPL can be made completely automatic with the ASI procedures. The first procedure executed during IPL has the name '\$\$IPL370' or '\$\$IPL' (\$\$IPL370 applies to a machine operated in 370 mode, while \$\$IPL applies to a 4331 in ECPS mode). Another way to have an automatic IPL is using the \$ASIPROC procedure:

For example:

```
CATALP $ASIPROC
CPU=FF0602653032,IPL=$IPLRSC,JCL=$$JCLRSC
/*
```

This procedure is checked by VSE to find the procedures to be executed.

Partition activation is again via procedures with standard names such as \$\$JCL370 (or \$\$JCLE for the ECPS version or \$\$JCLRSC if you use the \$ASIPROC procedure). These procedures could be used to start POWER, VTAM and OCCF/NCCF.

Once IPL is completed, the only partition then started is BG. BG start POWER, POWER will then start other partitions and give control to them. In this example, the VTAM partition (F1) was outside the control of POWER. This was because it was to be run at a higher priority than POWER for POWER SNA communications. Instead, OCCF has a parameter (TPPART=partition-id in the OCFOPT macro) which allows specification of a TP partition. Once OCCF is started, it starts the TP partition and then attaches and starts NCCF if required (NCCF=YES in the OCFOPT macro). In this way OCCF, NCCF and NPDA will run in only one partition.
VSE IPL event chain:

```
IPL      -----> $IPL370  -----> starts BG
BG       -----> $0JCL370 -----> starts F2
F2(POWER) -----> $2JCL370 -----> starts F3
                                           starts F4
                                           starts F5
                                           restarts BG
F3(OCCF) -----> $3JCL370 -----> starts F1
                                           starts NCCF/NPDA
F1(VTAM) -----> $1JCL370 -----> starts ACF/VTAM
```

Proper definition of the VTAM startup books will cause ACF/VTAM to activate itself completely without operator intervention. Some of the features of NCCF which could be applied to network activation are:

Timer initiated CLISTS. These could be used for activating parts of the network at different times of the day, starting applications and shutting down the network at end of day.

Conditional CLISTS. These could be used to alter our course of action based on the results of previous actions. It can be used in error situations to help the operator to find the network status and then attempt recovery.

CLIST execution after NCCF initialization is complete.
A CLIST could be executed just after NCCF is active to activate the rest of the network.

There will probably a mixture of ACF/VTAM startup and NCCF initiated startup.

CICS/VS

CICS/VS Definitions

CICS definitions are given in chapter 17 but some comments are given here.

When CICS/VS is installed it provides at least one version of all CICS/VS system programs. Some of them are provided in three or four different versions to cover a wide variety of configurations and options. The program versions provided have been chosen to meet the needs of the majority of installations; they include the most frequently used options.

CICS/VS Tables Definitions

At least the following CICS/VS tables will need customization because of ACF/VTAM:

DFHPCT Program control table (May be used DFHPCT1\$).
DFHPPT Program processing table (May be used DFHPPT1\$).
DFHSIT System initialization table.
DFHTCP Terminal control program (May be used DFHTCP5\$).
DFHTCT Terminal control table.
DFHZCB Terminal control program (May be used DFHZCB5\$).
DFHZCP Terminal control program (May be used DFHZCP5\$).
DFHZCX Terminal control program (May be used DFHZCX5\$).
DFHZCZ Terminal control program (May be used DFHZCZ5\$).

Depending on the applications to be run under CICS/VS, other tables and programs may be needed. You have also to create the CICS/VS initialization JCL. Information regarding to CICS/VS pregenerated modules can be found in:

CICS/VS 1.6 Installation and Operation Manual SC33-0070

DOS/VSE CICS/VS Sample JCL for Tables Catalog

```
* $$ JOB JNM=CATALOG,CLASS=0
// JOB CATALOG
* THIS JOB ASSEMBLE AND LINK-EDIT ANY CICS/VS TABLE
// LIBDEF SL,SEARCH=(PRDSLQ,PRDSLQ)
// LIBDEF CL,TO=USRCL1
// OPTION CATAL,NOXREF
// EXEC ASSEMBLY,SIZE=128K
```

Insert your PCT, TCT, etc definition tables deck here
(See chapter 17)

```
/*
// EXEC LNKEDT,SIZE=64K
/ &
* $$ EOJ
```

The above job can be used to catalog your customized CICS tables in the VTAM core library (e.g, USRCL1).

ACF/VTAM and CICS/VS Terminals Definitions

When it is used VTAM, no definitions in the CICS startup jobstream are required. VTAM, or the NCP, contains all definitions about the network of terminals it controls and it uses these to manage the flow of data between CICS and the terminals, using only the I/O facilities of the operating system.

A given terminal defined in the CICS TCT has two names associated with it: the NETNAME, which is the same as the VTAM node name, and the TRMIDNT, which is the name used by application programs when referring to that terminal.

Before using a TCT with VTAM terminal definitions, you should therefore make sure that the NETNAMEs defined in the table agree with the VTAM node names in your VTAM system(as held in the B.books in the VSE libraries).

The local terminals controlled by VTAM may be SNA terminals connected to a channel-attached cluster controller (e.g, 3274-1A, 3790) or they may be non-SNA 3270 terminals connected via a local control unit (3274-1B).

The remote terminals controlled by VTAM are attached to an SNA cluster controller(i.e, 3600) which is connected via an SDLC line with a channel-attached communication controller(e.g, 3705). The communications controller may also be loaded with code to enable remote terminals to be connected to it via a BSC line(e.g, 3274-1C BSC).

Test of Your Customized CICS/VS Definitions

CICS/VS commands provided for management of the resources under control of CICS/VS can be used to test your definitions. The CSMT and/or CEMT commands can be used to display the status of your defined terminals.

CSMT TERMNL,SIN,INQ,TERMID=xxxx to display a single terminal or

CEMT INQ TER or

CEMT INQ NETNAME to display all terminals.

All powered-on devices defined with LOGAPPL=xxxxxxx (e.g, DBDCCICS or CICS12) and ISTATUS=ACTIVE should be IN SERVICE(INS) and CONNECTED TO VTAM (ACQ).

The CICS/VS Good Morning Message should appear on these devices if you coded the GMTEXT TCT option.

Check keyboard terminals with the command:

CEMT INQ TAS or

CSMT TAS using the TRMIDNT of the terminal.

Now you can type in a valid transaction code to check the input/output function of these devices.

Logging off from CICS/VS

To logoff from CICS/VS the command:

CSSF LOGOFF

can be used at the terminal. After the command is entered and accepted, a CICS/VS message is displayed indicating the session is terminated; the terminal will again be in the SSCP-LU session.

MVS REFERENCES

OS/VS2 Sysgen Reference	GC26-3792
OS/VS2 MVS Utilities	GC26-3902
OS/VS2 System Programming Library: Service Aids	GC28-0674
OS/VS2 System Programming Library: Initialization and Tuning Guide	GC28-0681
OS/VS2 JCL	GC28-0692
Operator's Library: OS/VS2 Reference (JES2)	GC38-0210
<u>ACF/VTAM V2</u>	
Advanced Communication Function for VTAM Version 2 Planning and Installation Reference	SC27-0610

MVS

MVS Sys. Gen. Macros (Full)

```

TITLE 'OS/VS2-3.8 UNIV IO TPO MSP'
COPY SGGBLPAK
*****
*
*           SYSTEM CONSOLES
*
*****
      CONSOLE MCONS=01A,
              ALTCONS=61A,
              OLDWTOR=1,
              PFK=12,
              AREA=,
              ROUTCDE=ALL
      CONSOLE SECONS=014,
              ROUTCDE=ALL,
              PFK=12,
              VALDCMD=(1,2,3),
              AREA=,
              IOC=YES
      CONSOLE SECONS=016,
              ROUTCDE=ALL,
              PFK=12,
              VALDCMD=(1,2,3),
              AREA=,
              IOC=YES
      CONSOLE SECONS=019,
              ROUTCDE=ALL,
              AREA=30,
              VALDCMD=(1,2,3),
              IOC=YES
      CONSOLE SECONS=009,
              ROUTCDE=,
              VALDCMD=(1,2,3),
              IOC=YES
      CONSOLE SECONS=429,
              AREA=,
              VALDCMD=(1,2,3),
              PFK=12
      CONSOLE SECONS=449,
              AREA=,

```

```

    VALDCMD=(1,2,3),
    PFK=12
    CONSOLE SECONS=469,
    AREA=,
    VALDCMD=(1,2,3),
    PFK=12
    CONSOLE SECONS=488,
    AREA=,
    VALDCMD=(1,2,3),
    PFK=24
    CONSOLE SECONS=498,
    AREA=,
    VALDCMD=(1,2,3),
    PFK=24
    CONSOLE SECONS=49B,
    AREA=,
    VALDCMD=(1,2,3),
    PFK=24
    CONSOLE SECONS=61A,
    AREA=,
    PFK=12,
    VALDCMD=(1,2,3),
    ROUTCDE=ALL
    CONSOLE SECONS=0-015,
    ROUTCDE=ALL
    CONSOLE TYPE=JES,
    VALDCMD=(1,2,3)

```

```

X
X
X
X
X
X
X
X
X
X
X
X
X
X
X
X

```

Note: Console Type=Jes is required for MVS/OCCF

```

*****
*
* CHANNELS
*
*****
CHAN0 CHANNEL ADDRESS=0,TYPE=MULTIPLEXOR
CHAN1TO5 CHANNEL ADDRESS=(1,2,3,4,5),TYPE=BLKMPXR
CHAN6 CHANNEL ADDRESS=6,TYPE=MULTIPLEXOR
CHAN7TOF CHANNEL ADDRESS=(7,8,9,A,B,C,D,E,F),TYPE=BLKMPXR
*****
*
* MULTIPLEXOR CHANNEL IO DEVICES
*
*****
IODEVICE UNIT=3211,ADDRESS=(002,3)
IODEVICE UNIT=3203,MODEL=4,ADDRESS=008
IODEVICE UNIT=3215,ADDRESS=009
IODEVICE UNIT=3505,ADDRESS=00A
IODEVICE UNIT=3525,ADDRESS=00B
IODEVICE UNIT=2540R,ADDRESS=00C,MODEL=1
IODEVICE UNIT=2540P,ADDRESS=00D,MODEL=1
IODEVICE UNIT=1403,ADDRESS=00E,MODEL=N1,FEATURE=UNVCHSET
IODEVICE UNIT=3158,ADDRESS=014
IODEVICE UNIT=3213,ADDRESS=015
IODEVICE UNIT=3158,ADDRESS=016
IODEVICE UNIT=3800,FEATURE=CGS2,ADDRESS=018
IODEVICE UNIT=3066,ADDRESS=019
IODEVICE UNIT=3036,ADDRESS=01A
IODEVICE UNIT=7443,ADDRESS=01B
IODEVICE UNIT=2955,ADDRESS=01C
IODEVICE UNIT=1403,ADDRESS=01E,MODEL=N1,FEATURE=UNVCHSET
IODEVICE UNIT=BSC3,ADDRESS=(024,1),ADAPTER=BSCA,TCU=2703
IODEVICE UNIT=TWX,ADDRESS=(025,2),ADAPTER=TELE2,TCU=2703
IODEVICE UNIT=1050,ADDRESS=(027,1),ADAPTER=IBM1,TCU=2703, X
FEATURE=AUTOPOLL
IODEVICE UNIT=BSC1,ADDRESS=(030,8),ADAPTER=BSCA,TCU=2703
IODEVICE UNIT=1050,ADDRESS=(038,1),ADAPTER=IBM1,TCU=2703, X
FEATURE=AUTOPOLL
IODEVICE UNIT=2740,ADDRESS=(039,2),ADAPTER=IBM1,TCU=2703, X
FEATURE=(AUTOPOLL,SCONTROL)
IODEVICE UNIT=2741P,ADDRESS=(03B,2),ADAPTER=IBM1,TCU=2703
IODEVICE UNIT=2741C,ADDRESS=(03D,2),ADAPTER=IBM1,TCU=2703
IODEVICE UNIT=3705,ADDRESS=0F0,ADAPTER=CA1
IODEVICE UNIT=3705,ADDRESS=0F1,ADAPTER=CA1

```

IODEVICE UNIT=3705,ADDRESS=0FF,ADAPTER=CA1

```
*****
*
* CHANNEL 1 IO DEVICES
*
*****
      IODEVICE UNIT=3340,
      OPTCHAN=2,
      FEATURE=SHARED,
      ADDRESS=(100,8)
      IODEVICE UNIT=3340,
      OPTCHAN=2,
      FEATURE=SHARED,
      ADDRESS=(118,8)
      IODEVICE UNIT=3350,
      OPTCHAN=2,
      FEATURE=SHARED,
      ADDRESS=(120,8)
      IODEVICE UNIT=3330,
      MODEL=11,
      OPTCHAN=7,
      ADDRESS=(128,8)
      IODEVICE UNIT=3350,
      OPTCHAN=2,
      FEATURE=SHARED,
      ADDRESS=(148,8)
      IODEVICE UNIT=3330,
      MODEL=11,
      OPTCHAN=7,
      ADDRESS=(150,8)
      IODEVICE UNIT=3330,
      MODEL=11,
      OPTCHAN=7,
      FEATURE=SHARED,
      ADDRESS=(158,8)
      IODEVICE UNIT=3330,
      MODEL=11,
      OPTCHAN=7,
      ADDRESS=(160,8)
      IODEVICE UNIT=3330,
      MODEL=11,
      OPTCHAN=7,
      FEATURE=SHARED,
      ADDRESS=(168,8)
      IODEVICE UNIT=3375,
      OPTCHAN=2,
      FEATURE=SHARED,
      ADDRESS=(180,8)
      IODEVICE UNIT=2305,
      MODEL=2,
      OPTCHAN=7,
      ADDRESS=1D0
      IODEVICE UNIT=2305,
      MODEL=2,
      OPTCHAN=7,
      ADDRESS=1F0
```

```
*****
*
* CHANNEL 2 IO DEVICES
*
*****
      IODEVICE UNIT=3330V,
      FEATURE=SHARED,
      ADDRESS=(208,2)
      IODEVICE UNIT=3851,
      ADDRESS=20A
      IODEVICE UNIT=3791L,
      ADDRESS=20C
      IODEVICE UNIT=3330,
      MODEL=11,
      OPTCHAN=8,
      FEATURE=SHARED,
      ADDRESS=(240,8)
```

```

IODEVICE UNIT=3330, X
MODEL=1, X
OPTCHAN=A, X
FEATURE=SHARED, X
ADDRESS=(250,16)
IODEVICE UNIT=3330, X
MODEL=11, X
OPTCHAN=8, X
FEATURE=SHARED, X
ADDRESS=(260,8)
IODEVICE UNIT=3330, X
MODEL=11, X
OPTCHAN=8, X
FEATURE=SHARED, X
ADDRESS=(268,8)
IODEVICE UNIT=3380, X
OPTCHAN=8, X
FEATURE=SHARED, X
ADDRESS=(288,8)

```

Note: The address 20C(UNIT=3791L) is for 3274-1A.

```

*****
* CHANNEL 3 IO DEVICES *
* *****
IODEVICE UNIT=3330, X
MODEL=11, X
OPTCHAN=A, X
FEATURE=SHARED, X
ADDRESS=(330,8)
IODEVICE UNIT=3340, X
OPTCHAN=9, X
FEATURE=(SHARED,RPS), X
ADDRESS=(340,16)
IODEVICE UNIT=3330, X
MODEL=1, X
OPTCHAN=8, X
FEATURE=SHARED, X
ADDRESS=(380,8)
IODEVICE UNIT=3705, ADDRESS=3F0, ADAPTER=CA1
IODEVICE UNIT=3705, ADDRESS=3F1, ADAPTER=CA1
IODEVICE UNIT=3705, ADDRESS=3FF, ADAPTER=CA1

```

```

*****
* CHANNEL 4 IO DEVICES *
* *****
IODEVICE UNIT=3203, MODEL=4, ADDRESS=408
IODEVICE UNIT=3330, X
MODEL=1, X
OPTCHAN=A, X
FEATURE=SHARED, X
ADDRESS=(410,8)
IODEVICE UNIT=3330, X
MODEL=11, X
OPTCHAN=A, X
FEATURE=SHARED, X
ADDRESS=(418,8)
SWD020A IODEVICE UNIT=3277, X
ADDRESS=(420,15), X
MODEL=2, X
FEATURE=(DOCHAR, EBKY3277, KB78KEY, SELPEN, NUMLOCK, AUDALRM)
IODEVICE UNIT=3286, X
ADDRESS=(42F,1), X
MODEL=2, X
FEATURE=(DOCHAR)
IODEVICE UNIT=3277, X
ADDRESS=(430,16), X
MODEL=2, X
FEATURE=(DOCHAR, EBKY3277, KB78KEY, SELPEN, NUMLOCK, AUDALRM)
IODEVICE UNIT=3277, X

```

```

ADDRESS=(440,24), X
MODEL=2, X
FEATURE=(DOCHAR,EBKY3277,KB78KEY,SELPEN,NUMLOCK,AUDALRM) X
IODEVICE UNIT=3286, X
ADDRESS=(458,1), X
MODEL=2, X
FEATURE=(DOCHAR) X
IODEVICE UNIT=3277, X
ADDRESS=(460,24), X
MODEL=2, X
FEATURE=(DOCHAR,EBKY3277,KB78KEY,SELPEN,NUMLOCK,AUDALRM) X
IODEVICE UNIT=3278, X
ADDRESS=(480,6), X
MODEL=4, X
FEATURE=(EBKY3277,KB78KEY,AUDALRM) X
IODEVICE UNIT=3279, X
ADDRESS=(486,2), X
MODEL=3B, X
FEATURE=(EBKY3277,KB78KEY,AUDALRM) X
IODEVICE UNIT=3278, X
ADDRESS=(488,16), X
MODEL=4, X
FEATURE=(EBKY3277,KB78KEY,AUDALRM) X
IODEVICE UNIT=3278, X
ADDRESS=(498,3), X
MODEL=3, X
FEATURE=(EBKY3277,KB78KEY,AUDALRM) X
IODEVICE UNIT=3278, X
ADDRESS=(49B,3), X
MODEL=2, X
FEATURE=(EBKY3277,KB78KEY,AUDALRM) X
IODEVICE UNIT=3286, X
ADDRESS=(49E,2), X
MODEL=2 X
IODEVICE UNIT=3848,ADDRESS=4D0,MODEL=1

```

```

*****
* CHANNEL 5 IO DEVICES *
* *****

```

```

IODEVICE UNIT=CTC, X
ADDRESS=(500,1), X
FEATURE=370 X
IODEVICE UNIT=2314, X
ADDRESS=(530,8) X
IODEVICE UNIT=3420, X
MODEL=4, X
ADDRESS=(580,2), X
OFFLINE=YES, X
FEATURE=(OPT1600,SHARABLE) X
IODEVICE UNIT=3420, X
MODEL=8, X
ADDRESS=(582,6), X
OFFLINE=YES, X
FEATURE=(OPT1600,SHARABLE) X
IODEVICE UNIT=3420, X
MODEL=5, X
ADDRESS=(588,2), X
OFFLINE=YES, X
FEATURE=(9-TRACK,DUALDENS,SHARABLE) X
IODEVICE UNIT=3420, X
MODEL=8, X
ADDRESS=(58A,4), X
OFFLINE=YES, X
FEATURE=(OPT1600,SHARABLE) X

```

```

*****
* CHANNEL 6 IO DEVICES *
* *****
IODEVICE UNIT=3211, X
ADDRESS=602 X
IODEVICE UNIT=1403,ADDRESS=60E,MODEL=N1,FEATURE=UNVCHSET X

```


IODEVICE UNIT=3800,FEATURE=CGS2, X
ADDRESS=618
IODEVICE UNIT=3036,ADDRESS=61A
IODEVICE UNIT=7443,ADDRESS=61B
IODEVICE UNIT=1403,ADDRESS=61E,MODEL=N1,FEATURE=UNVCHSET

*
* CHANNEL 7 IO DEVICES *
*

IODEVICE UNIT=3330, X
MODEL=11, X
FEATURE=SHARED, X
ADDRESS=(730,8)

*
* CHANNEL 8 IO DEVICES *
*

IODEVICE UNIT=3330, X
MODEL=1, X
FEATURE=SHARED, X
ADDRESS=(810,8)

*
* CHANNEL 9 IO DEVICES *
*

IODEVICE UNIT=3886,ADDRESS=90A
IODEVICE UNIT=3895,ADDRESS=90B
IODEVICE UNIT=3890,ADDRESS=90C
IODEVICE UNIT=3838,ADDRESS=910

*
* CHANNEL A IO DEVICES *
*

IODEVICE UNIT=DUMMY, X
ADDRESS=(AFF,1)

*
* CHANNEL B IO DEVICES *
*

IODEVICE UNIT=DUMMY, X
ADDRESS=(BFF,1)

*
* CHANNEL C IO DEVICES *
*

IODEVICE UNIT=DUMMY, X
ADDRESS=(CFF,1)

*
* CHANNEL D IO DEVICES *
*

IODEVICE UNIT=DUMMY, X
ADDRESS=(DFF,1)

*
* CHANNEL E IO DEVICES *
*

IODEVICE UNIT=DUMMY, X
ADDRESS=(EFF,1)

```

*****
*
*   UNITNAMES
*
*****
UNITNAME NAME=SYSSQ,VIO=YES, X
UNIT=((F30,1),(100,8),(118,24),(148,8),(150,16), X
(160,16),(180,8),(240,8),(250,32),(288,8),(330,8), X
(340,16),(380,8),(410,16),(530,8),(730,8),(810,8))
UNITNAME NAME=SYSDA,VIO=YES, X
UNIT=((F30,1),(100,8),(118,24),(148,8),(150,16), X
(160,16),(180,8),(240,8),(250,32),(288,8),(330,8), X
(340,16),(380,8),(410,16),(530,8),(730,8),(810,8))
UNITNAME NAME=SYSTS,VIO=YES, X
UNIT=((F30,1),(100,8),(118,24),(148,8),(150,16), X
(160,16),(240,8),(250,32),(288,8),(330,8), X
(340,16),(380,8),(410,16),(530,8),(730,8),(810,8))
UNITNAME NAME=NOVIO,VIO=NO, X
UNIT=((F30,1),(100,8),(118,24),(148,8),(150,16), X
(160,16),(180,8),(240,8),(250,32),(288,8),(330,8), X
(340,16),(380,8),(410,16),(530,8),(730,8),(810,8))
UNITNAME NAME=MOD1,VIO=YES, X
UNIT=((250,16),(260,16),(380,8),(410,8),(810,8))
UNITNAME NAME=MOD11,VIO=YES, X
UNIT=((128,8),(150,16),(160,16),(240,8),(260,16), X
(330,8),(418,8),(730,8))
UNITNAME NAME=MOD14,VIO=YES, X
UNIT=((530,8))
UNITNAME NAME=MOD40,VIO=YES, X
UNIT=((100,8),(118,8),(340,16))
UNITNAME NAME=MOD50,VIO=YES, X
UNIT=((120,8),(148,8))
UNITNAME NAME=MOD75,VIO=YES, X
UNIT=((180,8))
UNITNAME NAME=MOD80,VIO=YES, X
UNIT=((288,8))
UNITNAME NAME=TAPE, X
UNIT=((580,14))
UNITNAME NAME=JESTAPE, X
UNIT=((580,14))
UNITNAME NAME=DRUM, X
UNIT=(1D0,1F0)
UNITNAME NAME=CRYPTO, X
UNIT=(4D0)
UNITNAME NAME=RDR1,UNIT=(00A)
UNITNAME NAME=RDR2,UNIT=(00C)
UNITNAME NAME=PUN1,UNIT=(00B)
UNITNAME NAME=PUN2,UNIT=(00D)
UNITNAME NAME=PRT1,UNIT=(002)
UNITNAME NAME=PRT2,UNIT=(003)
UNITNAME NAME=PRT3,UNIT=(004)
UNITNAME NAME=PRT4,UNIT=(008)
UNITNAME NAME=PRT5,UNIT=(00E)
UNITNAME NAME=PRT6,UNIT=(01E)
UNITNAME NAME=PRT7,UNIT=(018)
UNITNAME NAME=PRT8,UNIT=(408)
UNITNAME NAME=PRT9,UNIT=(602)
UNITNAME NAME=PRT10,UNIT=(60E)
UNITNAME NAME=PRT11,UNIT=(618)
UNITNAME NAME=PRT12,UNIT=(61E)

*****
* THE FOLLOWING MACROS ARE INCLUDED FOR VIO SUPPORT *
* VIO WILL ONLY BE USED FOR TEMPORARY DATASETS, A REAL DEVICE *
* WILL BE ALLOCATED IF A NON-TEMPORARY DATASET IS SPECIFIED AND *
* EITHER 'VIO' OR 'SYSTS' IS SPECIFIED IN THE UNIT PARAMETER. *
*****
* THE UNIT NAME 'VIO' REPRESENTS ONLY THE MODEL 1 3330/3333
* IODEVICES IN THIS CONFIGURATION. VIRTUAL I-O (VIO) IF USED WILL
* TAKE ON ALL OF THE PHYSICAL CHARACTERISTICS OF A 2314 DEVICE
* SO AS TO BE TRANSPARENT TO THE PROGRAM USED.
*****
VIODA1 UNITNAME NAME=VIO,VIO=YES, X
UNIT=((F30,1),(150,32),(260,16))

```

```

*****
* THE UNIT NAME 'SYSTS' REPRESENTS ALL OF THE NON-DRUM DASD
* IODEVICES IN THIS CONFIGURATION. VIRTUAL I-O (VIO) IF USED WILL
* TAKE ON ALL OF THE PHYSICAL CHARACTERISTICS OF THE DEVICE FIRST
* ENCOUNTERED IN THE DEVICE PREFERENCE TABLE AND ALSO SPECIFIED
* HERE. SINCE THE DEVICE PREFERENCE TABLE IS DEFAULTED, THE DEVICE
* THAT WILL BE SIMULATED IS A 3350. FOR ADDITIONAL INFORMATION
* SEE THE SYSGEN MANUAL APPENDIX C. AND 'SCHEDULR' MACRO.
*****
VIODA2  UNITNAME NAME=SYSTS,VIO=YES, X
        UNIT=((F30,1),(150,16),(250,24),(340,16),(380,8))

*****
* THE FOLLOWING MACROS ARE INCLUDED TO MODEL DIFFERENT DEVICE TYPES *
*****
V2314   UNITNAME NAME=V2314,          TRACK OR WINDOW SIZE 7294 BYTES X
        VIO=YES,                      VIO TRACK/CYL = 20           X
        UNIT=(F30)                     VIO CYL/VOL = 200
V3330   UNITNAME NAME=V3330,          TRACK OR WINDOW SIZE 13030 BYTES X
        VIO=YES,                      VIO TRACK/CYL = 19           X
        UNIT=(F50)                     VIO CYL/VOL = 404

*****
* THE FOLLOWING DUMMY DEVICES ARE INCLUDES TO PERMIT THE *
* VIO DEVICE MODELLING IN SUPPORT OF THE NAMES BELOW. *
*****
X2314   IODEVICE UNIT=2314,ADDRESS=F30
X3330   IODEVICE UNIT=3330,ADDRESS=F50
X3340   IODEVICE UNIT=3340,ADDRESS=FC0
X3350   IODEVICE UNIT=3350,ADDRESS=F48
X2305   IODEVICE UNIT=2305,ADDRESS=FF0,MODEL=2
V3340   UNITNAME NAME=V3340,          TRACK OR WINDOW SIZE 8368 BYTES X
        VIO=YES,                      VIO TRACK/CYL = 12           X
        UNIT=(FC0)                    VIO CYL/VOL = 348
V3350   UNITNAME NAME=V3350,          TRACK OR WINDOW SIZE 19069 BYTES X
        VIO=YES,                      VIO TRACK/CYL = 30           X
        UNIT=(F48)                    VIO CYL/VOL = 505
V2305   UNITNAME NAME=V2305,          TRACK OR WINDOW SIZE 14136 BYTES X
        VIO=YES,                      VIO TRACK/CYL = 8            X
        UNIT=((FF0,8))                 VIO CYL/VOL = 48

*****
*
* SVCTABLE
*
*****
SVCTABLE SVCTABLE X
        SVC-255-T5-FC00, USED BY PP DASDR X
        SVC-254-T5-FC00, OPEN X
        SVC-253-T4-FC00, OPEN X
        SVC-252-T5-FC00, OPEN X
        SVC-251-T3-FC00, BERD TESTCASE AUTHORIZATION SVC X
        SVC-250-T5-FC00, OPEN X
        SVC-249-T5-FC00, OPEN X
        SVC-248-T5-FC00, OPEN X
        SVC-247-T5-FC00, OPEN X
        SVC-246-T5-FC00, OPEN X
        SVC-245-T5-FC00, OPEN X
        SVC-244-T4-FC00, OPEN X
        SVC-243-T4-FC00, OPEN X
        SVC-242-T4-FC00, OPEN X
        SVC-241-T4-FC00, OPEN X
        SVC-240-T6-FC00, OPEN X
        SVC-239-T5-FC00, OPEN X
        SVC-238-T4-FC00, OPEN X
        SVC-237-T2-FC00, IMS 1.1.5/1.1.6/1.2 SVC FOR IMSB X
        SVC-236-T1-FC00, VSPC SVC X
        SVC-235-T3-FC00, OPEN X
        SVC-234-T2-FC00, CICS/IMS/ISC X
        SVC-233-T3-FC00, OPEN X
        SVC-232-T3-FC00, OPEN X
        SVC-231-T3-FC00, NCCF/TCAM INTERFACE MODULE X
        SVC-230-T3-FC00, OPEN X
        SVC-229-T3-FC00, OPEN X
        SVC-228-T3-FC00, OPEN X
        SVC-227-T4-FC00, OPEN X

```

		SVC-226-T3-FC00,	CRYPTO KEY MANAGER	X
		SVC-225-T3-FC00,	CRYPTO DES ALGORITHM	X
		SVC-224-T4-FC00,	OPEN	X
		SVC-223-T5-FC00,	OPEN	X
		SVC-222-T2-FC00,	OPEN	X
		SVC-221-T2-FC00,	OPEN	X
		SVC-220-T2-FC00,	OPEN	X
		SVC-219-T2-FC00,	OPEN	X
		SVC-218-T6-FC00,	OPEN	X
		SVC-217-T5-FC00,	OPEN	X
		SVC-216-T5-FC00,	OPEN	X
		SVC-215-T4-FC00,	OPEN	X
		SVC-214-T3-FC00,	CICS 14 STANDARD SVC	X
		SVC-213-T2-FC00,	IMS 1.1.5/1.1.6/1.2 SVC FOR IMSA	X
		SVC-212-T1-FC00,	OPEN	X
		SVC-211-T4-FC00,	OPEN	X
		SVC-210-T3-FC00,	OPEN	X
		SVC-209-T2-FC00,	CICS 1.4/1.5 SVC	X
		SVC-208-T1-FC00,	OPEN	X
		SVC-207-T4-FC00,	OPEN	X
		SVC-206-T3-FC00,	ISPF AUTHORIZATION FOR IEBCOPY	X
		SVC-205-T2-FC00,	OPEN	X
		SVC-204-T1-FC00,	OPEN	X
		SVC-203-T6-FC00,	CICS 1.4/1.5 SVC FOR HPO	X
		SVC-202-T4-FC00,	OPEN	X
		SVC-201-T6-FC00,	OPEN	X
		SVC-200-T5-FC00,	OPEN	X
CTRL	CTRLPROG	OPTIONS=(DEVSTAT,RDE,RER,BLDL,CRH),SQA=9,REAL=256, TZ=(W,5),ASCII=INCLUDE, CSA=3600,VRREGN=512,PAGNUM=(9,9), ACRCODE=YES,APFLIB=(SYS1.VTAMLIB,TPOMSP,SYS1.VTAMOBJ, TPOLB2,SYS1.CMDLIB,TPOMSP,SYS1.LPALIB,TPOMSP, SYS1.VTAMLIB,TPOLB2,SYS1.JES3LIB,TPOMSP, NCP.NCPLOAD,TPOLB2,TPO.LINKLIB,TPOLB2, SYS1.LINKLIB,TPOMSP)		X X X X X X X
SCH	SCHEDULR	BCLMT=20, ** TSO SCHEDULER REQUEST ** HARDCPY=(SYSLOG,ALL,CMDS), DEVPREF=(3330,3330-1,2305-2,2314), PRISUB=JES3, SUBSYS=(JES2)		X X X X
JES3	JES	RDR=(012),PRT=((002,3211,P11)),PUN=(013)		
CHKPT	CKPTREST	ELIGBLE=(20,100,101,102,103,110,120,140,160,4092)		
DATAMAN	DATAMGT	ACSMETH=(BTAM,TCAM,ISAM,GAM,VTAM), IND=YES, GRAPHCS=(PORRTNS,GSP),TABLE=ALL		X X
TSO	TSO	LOGTIME=20000		
EDIT	EDIT	DSTYPE=SYSTEST,BLOCK=800,FORMAT=FIXED,FIXED=(80-80), CONVERT=CAPS		X
SPACE	DATASET	BRODCAST,VOL=(IOGEN,3330-1)		
	DATASET	CMDLIB,VOL=(IOGEN,3330-1)		
	DATASET	DCMLIB,VOL=(IOGEN,3330-1)		
	DATASET	DUMP00,VOL=(IOGEN,3330-1)		
	DATASET	DUMP01,VOL=(IOGEN,3330-1)		
	DATASET	HELP,VOL=(IOGEN,3330-1)		
	DATASET	IMAGELIB,VOL=(IOGEN,3330-1)		
JES3LIB	DATASET	JES3LIB,VOL=(IOGEN,3330-1)		
	DATASET	LINKLIB,VOL=(IOGEN,3330-1)		
	DATASET	LPALIB,VOL=(IOGEN,3330-1)		
	DATASET	MACLIB,VOL=(IOGEN,3330-1)		
	DATASET	NUCLEUS,VOL=(IOGEN,3330-1)		
	DATASET	PARMLIB,VOL=(IOGEN,3330-1)		
	DATASET	PROCLIB,VOL=(IOGEN,3330-1)		
	DATASET	SAMPLIB,VOL=(IOGEN,3330-1)		
	DATASET	STGINDEX,VOL=(IOGEN,3330-1)		
	DATASET	SVCLIB,VOL=(IOGEN,3330-1)		
	DATASET	TELCMLIB,VOL=(IOGEN,3330-1)		
	DATASET	TCOMMAC,VOL=(IOGEN,3330-1)		
	DATASET	UADS,VOL=(IOGEN,3330-1)		
	DATASET	VSCATLG,VOL=(IOGEN,3330-1), NAME=IOGEN.ICFCAT		X
	DATASET	VTAMLIB,VOL=(IOGEN,3330-1)		

```

DATASET   PAGEDSN=SYS1.PLPA
DATASET   PAGEDSN=SYS1.COMMON
DATASET   PAGEDSN=SYS1.LOCAL1
DATASET   PAGEDSN=SYS1.LOCAL2
DATASET   PAGEDSN=SYS1.LOCAL3

GENERATE  GENTYPE=(IO,1),OBJPDS=SYS1.MSPDS,
          RESVOL=(IOGEN,3330-1),
          INDEX=SYS1,
          JCLASS=A,
          OCLASS=A
ICUCUSP
END

```

```

X
X
X
X

```

MVS System Parameter Definitions

```

./  ADD   NAME=IEASYS00,LEVEL=00,SOURCE=0,LIST=ALL
      APF=11,
      BLDLF=C0,
      CMD=11,
      SSN=11,
      CSA=2500,
      CVIO,
      DUMP=(DASD),
      FIX=00,
      GRS=NONE,
      HARDCPY=(SYSLOG,ALL,CMD),
      LNK=11,
      LOGCLS=L,
      LOGLMT=002000,
      MAXUSER=192,
      MLPA=1T,
      MSTRJCL=11,
      OPI=YES,
      OPT=11,
      IPS=11,
      PAGE=(WTL375.PLPA,WTL375.COMMON,WTL375.LOCAL1),
      PAGNUM=(10,5),
      REAL=3000,
      SMF=11,
      SQA=5,
      VAL=11,
      WTOBFRS=500,
      WTORPLY=25
/*

```

THIS IS THE END OF IEASYS00

```

./ ADD NAME=COMMND11,LEVEL=00,SOURCE=0,LIST=ALL
COM='TRACE ON'
COM='SEND '*****',BRDCST'
COM='SEND '*****',BRDCST'
COM='SEND '** **',BRDCST'
COM='SEND '** TPO MSE OPERATING SYSTEM **',BRDCST'
COM='SEND '** SERVICE LEVEL IS 8304 **',BRDCST'
COM='SEND '** SP 1.3.3 **',BRDCST'
COM='SEND '** **',BRDCST'
COM='SEND '** WARM START-- **',BRDCST'
COM='SEND '** **',BRDCST'
COM='SEND '*****',BRDCST'
COM='SEND '*****',BRDCST'
COM='DISPLAY T'
COM='DISPLAY M=HIGH'
COM='DISPLAY U,DASD,ONLINE'
TOD=NOPROMPT
COM='K S,DEL=RD,SEG=19,CON=N,RNUM=19,RTME=002,L=01'
COM='K A,NONE,L=01'
COM='K S,DEL=RD,SEG=19,CON=N,RNUM=19,RTME=002,L=02'
COM='K A,NONE,L=02'
COM='K S,DEL=RD,SEG=19,CON=N,RNUM=19,RTME=002,L=03'
COM='K A,NONE,L=03'
COM='K S,DEL=RD,SEG=19,CON=N,RNUM=19,RTME=002,L=05'
COM='K A,NONE,L=05'
COM='K S,DEL=RD,SEG=19,CON=N,RNUM=19,RTME=002,L=06'
COM='K A,NONE,L=06'
COM='K S,DEL=RD,SEG=19,CON=N,RNUM=19,RTME=002,L=07'
COM='K A,NONE,L=07'
COM='K S,DEL=RD,SEG=19,CON=N,RNUM=19,RTME=002,L=08'
COM='K S,DEL=RD,SEG=19,CON=N,RNUM=19,RTME=002,L=09'
COM='K S,DEL=RD,SEG=19,CON=N,RNUM=19,RTME=002,L=10'
COM='K S,DEL=RD,SEG=19,CON=N,RNUM=19,RTME=002,L=11'
COM='K S,DEL=RD,SEG=19,CON=N,RNUM=19,RTME=002,L=12'
COM='S JES2,PARM=('NOREQ,WARM,NOFMT')'
COM='S NET,,(LIST=11),SA=11'
COM='S NCF111'
/*

```

```

./ ADD NAME=IEAAPF11,LEVEL=00,SOURCE=0,LIST=ALL
NPM.LOADLIB ONE WTL376,
CICS16.LOADLIB WTL373,
CICS16.LOADLIB1 WTL373,
CICS16.LOADLIB2 WTL373,
CICS16.RSC.LOADLIB WTL373,
CICS26.LOADLIB WTL373,
CICS26.LOADLIB1 WTL373,
CICS26.LOADLIB2 WTL373,
CICS26.RSC.LOADLIB WTL373,
CICS16.LOADLIB WTDBDC,
CICS16.LOADLIB1 WTDBDC,
CICS16.LOADLIB2 WTDBDC,
CICS16.RSC.LOADLIB WTDBDC,
CICS16.IMS115.RESLIB WTDBDC,
IMS20B.RESLIB WTL377,
IMS20B.MATRIX WTL377,
TPNS.LOAD WTL373,
SYS1.VTAMLIB WTL375,
SYS1.NPDALIB WTL375,
RISC.X4700.TBDKMOD WTL374,
RISC.X4700.REL2.TBDKMOD WTL374,
SYS1.LINKLIB WTL375,
SOF.LINKLIB WTL376,
SNMP.LINKLIB WTL376,
SNMP.V2.NPDALIB WTL376,
VNCA.PID.LINKLIB WTLIB2,

```

```

VNCV1R1.LINKLIB      WTL376,
SER1.RMF03.LOAD      WTL374,
SPFL.ISRLOAD         WTLIB2,
SPFL.ISPLOAD         WTLIB2,
SDSFL.R1M0.ISFLOAD  WTLIB3,
CHAM.VTAMLIB        WTLIB2,
CHAM.LINKLIB        WTLIB2,
CHAM.LPALIB         WTLIB2,
VTX.LINKLIB         WTLIB2,
RISC.NLDMLIB        WTLIB2,
SA11.VTAMLIB        WTLIB3,
SA11.VTAMOBJ        WTLIB3,
RISC.V3R1M0.NPDALINK WTLIB2,
RISC.V3R1M0.NPDALIB WTLIB2,
RISC.NCPLOAD        WTLIB2,
RISC.LINKLIB        WTLIB2,
RISC.L8304.LINKLIB  WTLIB2,
RISC.TEMP.LINKLIB   WTLIB2,
RISC.TPO.LINKLIB    WTLIB2,
RISC.CNM.LINKLIB    WTLIB2,
EIT.LINKLIB         WTLIB2,
RISC.LPALIB         WTLIB2,
DCF.R30.DCFLOAD     WTL372,
DLF.R30.LOADLIB     WTC372,
TEXT.LOADLIB        WTL372,
HPRP.R5M0.DPCXLIB   WTL372,
ZZZZ.ZZZZZZ        ZZZZZZ
/*
./ ADD NAME=IEAIPS11
/*      DEFAULT IPS  -- IEAIPS11  --
/*      TEST IPS=11
APGRNG = (0-14)      /* ALL DISP PRTY IN APG
PVLDP = F94          /* PRIVILEGED USER DPRTY
IOQ = PRTY           /*
CPU=10.0,IOC=5.0,MSO=3.0,SRB=10.0 /*
WKL=(1,50,99,100)
OBJ=2,SRV=(2000,*,0) /* LONG BATCH AND LONG TSO
OBJ=3,SRV=(2000,*,*,0) /* DOBJ FOR TSO
OBJ=4,SRV=(1000,*,*,0) /* DOBJ FOR BATCH
OBJ=5,SRV=(2000)     /* HOT BATCH
OBJ=6,SRV=(500,1,0) /* LOW PRIORITY BATCH
OBJ=7,SRV=(500,1,0) /* SNAP SHOT
OBJ=8,SRV=(2000,2000,2000,2000) /* NET AND NCCF AND JES2
DMN=1,CNSTR=(2,4,1) /* BATCH
DMN=2,CNSTR=(10,20,255) /* SHORT AND MEDIUM TSO
DMN=3,CNSTR=(3,6,255) /* LONG TSO
DMN=4,CNSTR=(4,6,255) /* NET AND NCCF
DMN=5,CNSTR=(2,4)    /* JES2
DMN=6,CNSTR=(1,1)    /* IMS
DMN=7,CNSTR=(1,1)    /* CICS
PGN=1,(DMN=1,DP=M2, DUR=30K) /* BATCH -SHORT
      (DMN=1,DP=M2, OBJ=2) /* -----LONG
PGN=2,(DMN=2,DUR=2000,DP=F94) /* TSO -SHORT
      (DMN=3,DUR=10000,DP=F94) /* -----MEDIUM
/* (DMN=4,DP=M2, OBJ=2,ISV=10K) /* -----LONG
PGN=3,(DMN=1,DP=F30,OBJ=5) /* HOT BATCH
PGN=4,(DMN=1,DP=M1, OBJ=6) /* LOW PRTY BATCH
PGN=5,(DMN=1,DP=M1, OBJ=7) /* SNAPSHOT
PGN=9,(DMN=5,OBJ=8) /* JES2
PGN=10,(DMN=4,OBJ=8) /* NET
PGN=13,(DMN=4,OBJ=8) /* NCCF
PGN=20,(DMN=6,DP=F70) /* IMS
PGN=30,(DMN=6,DP=F60,PWSS=(250,500)) /* CICS

```

```

/* THIS IPS PREFERS TSO SHORT ABOVE ALL OTHER WORK. SHORT IS      */
/* DEFINED AS 200 SERVICE UNITS. LONG TRANSACTIONS IN TSO ARE      */
/* PREFERRED OVER BATCH BY ALLOWING THEM TO RECEIVE TWICE THE     */
/* SERVICE RATE THAT BATCH DOES. DEFAULTS ARE TAKEN WHERE        */
/* APROPRIATE TO MAKE THE MEMBER MORE READABLE.                  */
/*                                                                  */
/* OBJ 1 --- (DEFAULT) - A STEEP SLOPE                             */
/* (USED WHERE EXCHANGE SWAP CONTROL IS NOT REQUIRED               */
/* TO EQUALIZE RESPONSE TIMES AND THROUGHPUT).                  */
/* OBJ 2 --- MODERATE SLOPE                                       */
/* (USED TO EVENLY DISTRIBUTE SERVICE TO LONG BATCH             */
/* AND LONG TSO TRANSACTIONS).                                    */
/* OBJ 3&4 - ONE SLOPE IS TWICE THE OTHER                         */
/* (TO GIVE TSO LONG TWICE THE SERVICE RATE OF BATCH)          */
/* OBJ 5 --- A HORIZONTAL LINE                                     */
/* (USED FOR IMPORTANT WORK TO PREEMPT OTHER BATCH)            */
/* OBJ 6 --- UNFAVORABLE SLOPE                                   */
/* (USED FOR UNIMPORTANT WORK THAT SHOULD BE DELAYED)          */
/*                                                                  */
/* ALL DOMAINS HAVE DEFAULTED MINIMUM AND MAXIMUM MPL (1,255)   */
/* BUT EXPLICITLY INDICATE THEIR CONTENTION INDEX ALGORITHM.    */
/*                                                                  */
/* DOMAINS PROVIDE ACCESSIBILITY TO MAIN STORAGE.                */
/* ISV (DEFAULT 100K) ENSURES RESIDENCY IN MAIN STORAGE FOR MOST,*/
/* BUT ALLOWS EXCHANGE SWAPS FOR LONG TSO TRANSACTIONS.        */
/* DURATIONS ALLOW CONTROL PARAMETERS TO CHANGE AS TRANSACTIONS AGE.*/
/* RESPONSE THROUGHPUT BIAS FAVORS RESPONSE FOR ALL.            */
/* OBJECTIVES ARE USED AS DESCRIBED ABOVE.                       */
/*                                                                  */
/*

```

```

./ ADD NAME=IEAOPT11
CPU=0.1,IOC=0.1,
ERV=500,LSCTMTE=(60,180)
RMPTTOM=65000 /* AS PER VM NEWSLETTER 46*/
/*

```

```

./ ADD NAME=IEFSSN11
IRLM IMS RESOURCE LOCK MANAGER
JRLM SECONDARY SUBSYSTEM NAME FOR IRLM
OCCF SECONDARY SUBSYSTEM NAME FOR OCCF
/*

```

```

./ ADD NAME=LNKLST11
SRISC.TEMP.LINKLIB,SRISC.LINKLIB,SYS1.SMLIB,SYS1.MSTRIPL2,
SPFL.ISRLOAD,SPFL.ISPLOAD,SDSFL.R1M0.ISFLOAD,SRISC.LPALIB,
SYS1.CMDLIB,SRISC.TPO.LINKLIB,SRISC.TPO.PPLIB
/*

```



```

./ ADD NAME=SMFPRM11
SYS(NODETAIL)
SYS(NOINTERVAL)
SYS(EXITS(IEFUJV))
SYS(EXITS(IEFUJI))
SYS(EXITS(IEFACTRT))
SYS(EXITS(IEFU84))
SYS(EXITS(IEFU83))
SYS(TYPE(0:255))
SID(SA11)
JWT(0030)
NOMAXDORM
NOSTATUS
NOPROMPT
NOLISTDSN
BUFNUM(04,09)
REC(PERM)
DSNAME(SYS1.MANX,SYS1.MANY)
ACTIVE
SUBSYS(STC,NOEXITS)
SUBSYS(STC,TYPE(70:79,128:131,240:249))
SUBSYS(TSO,NOEXITS)
SUBSYS(TSO,TYPE(32))
/*

```

```

./ ADD NAME=TSOKEY11
USERMAX=20,
RECONLIM=30,
BUFRSIZE=2048,
HIBFREXT=8192,
LOBFREXT=3300,
CHNLEN=4,
CONFTXT=NO,
SCRSIZE=1920
/*

```

```

X
X
X
X
X
X
X

```

```

./ ADD NAME=VATLST11
WTLIB1,1,2,3330-1 ,N
WTCMV1,1,2,3330-1 ,N
M11LB1,1,2,3330-1 ,N
NCPLIB,1,2,3330-1 ,N
WTDBDC,1,2,3330-1 ,N
WTCDLB,1,2,3330-1 ,N
WTLIB2,1,0,3350 ,N
WTLIB3,1,0,3350 ,N
WTL372,1,2,3350 ,N
WTL373,1,2,3350 ,N
WTL374,1,2,3350 ,N
WTL375,0,2,3350 ,Y
WTL376,1,0,3350 ,N
WTL377,1,2,3350 ,N
LIB1F0,1,2,3350 ,N
LIB1F1,1,2,3350 ,N
LIB1F2,1,2,3350 ,N
LIB1F3,1,2,3350 ,N
LIB1F4,1,2,3350 ,N
LIB1F5,1,2,3350 ,N
LIB1F6,1,2,3350 ,N
LIB1F7,1,2,3350 ,N
WTCR30,1,2,3330 ,N
/*

```

Note: Information for preparing the OS/MVS system parameters is found in OS/MVS Sysgen Reference (GC26-3792).

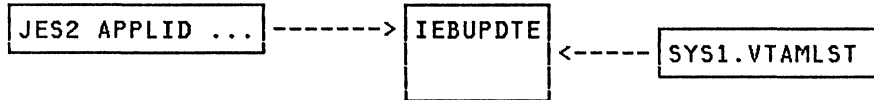
MVS JES2 Installation

JES2 INSTALLATION

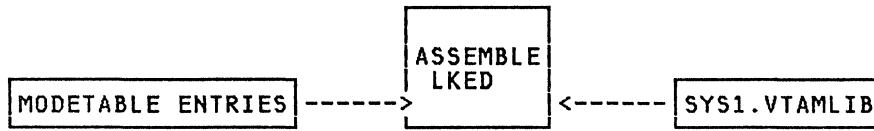
STEP 1. UPDATE JES2 PARMS



STEP 2 UPDATE SYS1.VTAMLST



Step 3. UPDATE MODE TABLES



STOP & RESTART JES2 and VTAM

MVS JES2 and NJE Parameter Definitions

```

./ ADD NAME=JES2N11,LEVEL=00,SOURCE=0,LIST=ALL
*****
*
* JES2 REL 4.1 INITIALIZATION PARAMETERS
*
* PARAMETERS SPECIFIED ARE THOSE THAT ARE
* DIFFERENT FROM THE DEFAULTS OR DEFAULTS WERE
* CODED FOR DOCUMENTATION PURPOSES.
* DEFAULTS AND OTHER PARAMETERS EXPLAINED IN:
* OS/V52 MVS SPL: JES2 GC23-0002-0
*
* NOTE: CHANGING THE FOLLOWING WILL CAUSE A WARM START TO BE DENIED:
* &SPOOL &BUFSIZE &MAXJOBS &NUMJOES
* &SPOLMSG &NUMRJE &NUMTGV &NUMDA
* &TCELSIZ &RECINCR
* I.E. WILL NEED EITHER A COLD START OR A FORMAT TO USE THEM
* IN MULTI-ACCESS SPOOL ENVIRONMENT THE ABOVE
* PARAMETERS MUST BE THE SAME ON ALL SYSTEMS SHARING SPOOL
*****
*PARAMETER-----DEFAULT---COMMENTS-----*
&BSPACE=7C
&BSVBOPT=YES
&CCOMCHR=$
&LINECT=0
&MAXCLAS=36
&MSGID=YES
&NUMBUF=114
&NUMCLAS=36
&NUMSMFB=20
&PRIHIGH=10
&PRILOW=0
&PRTBOPT=YES
&RCOMCHR=$
&TPBFSIZ=516
&XBATC=YES
* *****

```

```

* ***** END OF COMMON PARMS FROM TPO *****
* *****
&SID=SA11
&STDFORM=STDD * WGH 26 APR 1982
&BUFSIZE=4008 1960 BUFFER SIZE - MAXIMUM (GOOD FOR 3330)
&DMNDSET=YES NO PRINT ALL OUTOUT OF 1 CLASS FOR JOB ON 1 PRT
&JCOPYLM=3 3 MAX NUMBER OF COPIES ALLOWED (JCL/JOBPARM)
&MAXJOBS=100 100 MAX NUMBER OF JOBS ALLOWED IN SYSTEM
&MAXPART=9 9 MAX LOGICAL INITIATORS
&NUMACE=50 50 MAX NUMBER OF AUTOMATIC COMMANDS
&NUMCLAS=8 8 SYSOUT CLASS LIMIT FOR PRINTER OR PUNCH
&NUMCMBS=920 JES2 CONSOLE BUFFERS
&NUMINRS=20 20 NUMBER OF INTERNAL READERS
&NUMJOES=600 SEE SPL NUMBER OF JOB OUTPUT ELEMENTS
&NUMPRTS=6 6 MAX NUMBER OF PRINTERS
&NUMPUNS=4 4 MAX NUMBER OF PUNCHES
&NUMRDRS=10 10 MAX NUMBER OF READERS
&SPOLMSG=12 NUMBER OF MSG RECORDS RESERVED FOR EACH RJE
&TPBFSIZ=512 TP BUFFER SIZE
&MAXSESS=25 MAX NUMBER OF VTAM SESSIONS=LINES AT 5 LU EACH
&WAITIME=10 10 SECONDS FOR RMT CMD(FROM 1 DEFAULT)
&PRIDCT=31 31 LOCAL PRINT SEPARATOR PAGE LINE COUNT
&PRIRATE=96 96 PRIORITY INCREMENT INTERVAL
PRINTER1 DSPLTCEL,CLASS=AJ USE TRACK CELLING
PRINTER2 DSPLTCEL,CLASS=I USE TRACK CELLING
PRINTER3 DSPLTCEL,CLASS=F USE TRACK CELLING
PRINTER4 DSPLTCEL,CLASS=C USE TRACK CELLING
PRINTER5 DSPLTCEL,CLASS=D USE TRACK CELLING
&PRTRANS=NO NO NO PRINT LINE TRANSLATION OPTION
* BPPMMMMSSCCRLAAAAEF<- CONVERTER PARAMETERS
* WHERE B = 0 NO ACCT/PRGRNAME REQ'D
* PP = UNUSED MUST BE 00
* MMMSS = DEFAULT JOB TIME M-MINUTES,S-SECONDS (60 MINUTES)
* CCC = DEFAULT REGION IN K (512K)
* R = 1-> ALLOW OPER COMMANDS IN JCL
* L = 0->IGNORE BLP,1->ALLOW BLP
* AAAA = COMMAND GROUP ALLOWED IN JCL (ALL)
* EF = DEFAULT MSGLEVEL (1,1)
* BPPMMMMSSCCRLAAAAEF<- CONVERTER PARAMETERS
&RDROPSL=00000600051211E00011 LOGON CONVERSION PARAMETER FIELD
&RDROPST=00000600051211E00011 STARTED TASK CONVERSION PARAMETER FIELD
&RDROPSU=00000600051211E00011 BATCH JOB CONVERSION PARAMETER FIELD
* DEFINE OUTPUT PRIORITY PAGE COUNTS ARE APPROXIMATIONS
&XLIN(1)=600 2000 10 PAGES - DETERMINES OUTPUT PRTY
&XLIN(2)=1200 5000 20 PAGES - DETERMINES OUTPUT PRTY
&XLIN(3)=2400 15000 40 PAGES - DETERMINES OUTPUT PRTY
&XLIN(4)=4800 MAX 80 PAGES - DETERMINES OUTPUT PRTY
&XLIN(5)=9600 MAX 160 PAGES - DETERMINES OUTPUT PRTY
&XLIN(6)=20000 MAX 333 PAGES - DETERMINES OUTPUT PRTY
&XLIN(7)=40000 MAX 667 PAGES - DETERMINES OUTPUT PRTY
&XLIN(8)=80000 MAX 1333 PAGES -
&XLIN(9)=16777215 MAX LOWEST PRIORITY
*
&SPOOL=WTL37 SPOOL VOLUME ID FOR SYS1.HASPACE
&CHKPT=WTL375 CHECKPOINT VOLID FOR SYS1.HASPKPT
*
I1 START,NAME=A,CLASS=IA INIT A FOR JOB CLASS A
I2 DRAIN,NAME=B,CLASS=IB INIT B FOR JOB CLASS B
I3 START,NAME=C,CLASS=IABC INIT C FOR JOB CLASSES ABC
I4 DRAIN,NAME=D,CLASS=D INIT D FOR JOB CLASS D
I5 START,NAME=E,CLASS=IE INIT E FOR JOB CLASS E
I6 DRAIN,NAME=F,CLASS=IF INIT F FOR JOB CLASS F
I7 DRAIN,NAME=G,CLASS=IG INIT G FOR JOB CLASS G
I8 DRAIN,NAME=H,CLASS=IH INIT H FOR JOB CLASS H
I9 START,NAME=I,CLASS=I INIT I FOR JOB CLASS I
* JOB CLASS DEFINITIONS AND STARTED TASKS
* DEFAULT = NOCOPY,NOHOLD,JOURNAL,LOG,OUTPUT,TYPE6,TYPE26,IEFUJP,
* (CONT'D) IEFUSO,PERFORM=4,PROCLIB=00,NORESTRT,NOSCAN,NOXBATCH
&TSU PERFORM=2
&STC PERFORM=3
&A NOJOURN,PERFORM=4
&B NOJOURN,PERFORM=4
&C NOJOURN,PERFORM=4
&D NOJOURN,PERFORM=4
&E NOJOURN,PERFORM=4

```

```

&F NOJOURN,PERFORM=4
&G NOJOURN,PERFORM=4
&H NOJOURN,PERFORM=4
&I NOJOURN,PERFORM=3
* SYSOUT CLASS DEFINITIONS
* DEFAULT = SYSOUT,NOHOLD,PRINT,NOTRKCEL
$$$A PRINT,SYSOUT,NOHOLD,TRKCEL STANDARD OUTPUT CLASS
$$$B PUNCH,SYSOUT,NOHOLD STANDARD PUNCH CLASS
$$$C PRINT,SYSOUT,NOHOLD,TRKCEL STANDARD OUTPUT CLASS
$$$F PRINT,SYSOUT,NOHOLD,TRKCEL SPECIAL PRINT OUTPUT CLASS
$$$H PRINT,SYSOUT,NOHOLD,TRKCEL SPECIAL PRINT OUTPUT CLASS
$$$I PRINT,SYSOUT,NOHOLD,TRKCEL SPECIAL PRINT OUTPUT CLASS
$$$J PRINT,SYSOUT,NOHOLD SPECIAL PRINT OUTPUT CLASS
$$$R PRINT,SYSOUT,NOHOLD FOR RJE 8100
$$$K PUNCH,SYSOUT,NOHOLD SPECIAL PUNCH OUTPUT CLASS
$$$L PRINT,SYSOUT,HOLD SPECIAL PRINT OUTPUT CLASS FOR LWTR
$$$O PRINT,SYSOUT,HOLD,TRKCEL HELD OUTPUT FOR TSO USERS
$$$X PRINT,SYSOUT,HOLD,TRKCEL HELD OUTPUT FOR TSO USERS
$$$Z PRINT,DUMMY,NOHOLD DUMMY PRINT OUTPUT CLASS WILL BE PURGED
$$$S PRINT,DUMMY,NOHOLD DUMMY PRINT OUTPUT CLASS WILL BE PURGED
* MESSAGE CLASS DEFINITIONS
* DEFAULT = A
STCMCLAS=Z DEFAULT STC MESSAGE CLASS
TSUMCLAS=Z DEFAULT TSO MESSAGE/SYSOUT CLASS
*****
* NJE DEFINITION PARAMETER *
*****
&NUMTPBF=150
&NUMNODE=99
&NUMNAT=256
&NUMNJR=3
&NUMNJT=3
&NUMNSR=3
&NUMNST=3
&NUMPATH=8
&NUMLNES=20
&NUMRJE=110
&NETLNES=20
&OWNNODE=11
*MLBFSIZ=300
&MLBFSIZ=512
N1 NAME=RALYDPD,NETAUTH,SNA
N2 NAME=RALYDPD2,NETAUTH,SNA
N3 NAME=RALYDPD3,NETAUTH
N4 NAME=RALYDPD4,NETAUTH
N5 NAME=RALYDPD5,NETAUTH
N6 NAME=RALNAD3,NETAUTH
N8 NAME=RALVSMV8,SNA,NETAUTH
N11 NAME=RALVSMV3,SNA,NETAUTH
N12 NAME=RALVSE3,SNA,NETAUTH
N19 NAME=REMJES19,SNA
N20 NAME=DEVLMENT,SNA,NETAUTH
N21 NAME=RALVSMV1,SNA,NETAUTH
N26 NAME=RALVSMV4,SNA,NETAUTH
N28 NAME=NATLDC,NETAUTH
N29 NAME=REMJES29,SNA
N30 NAME=DIAL1,SNA,NETAUTH
N31 NAME=KGNPM1,NETAUTH
N33 NAME=RALVM6,NETAUTH
N34 NAME=RALVM8,NETAUTH
N35 NAME=GDLS4,NETAUTH
N36 NAME=YKTVMV,NETAUTH
N40 NAME=REMJES40,SNA,NETAUTH
N41 NAME=DALVM1,NETAUTH
*
*
N49 NAME=RALVS1,NETAUTH
N50 NAME=SYDVM1,NETAUTH
N51 NAME=UKFSC,NETAUTH
N52 NAME=GFORD1,NETAUTH
N53 NAME=JOHVM1,NETAUTH
N54 NAME=UITHON2,NETAUTH
N55 NAME=MSNVM1,NETAUTH
N56 NAME=TOROVML,NETAUTH
N57 NAME=WARVM2,NETAUTH

```

```

N58 NAME=IECMVS,NETAUTH
N59 NAME=AUSMVS1,NETAUTH
N60 NAME=UITMVS1,NETAUTH
N61 NAME=SYDMVS,NETAUTH
N75 NAME=ESONADM,NETAUTH
&NUMLOGS=2
* RJE RELATED PARAMETERS *
* *
LOGON1 APPLID=RALVSMV3 APPL ID TO VTAM
*OMPACT=40,15,A,C,D,E,H,I,L,N,O,R,S,T,U,40,0, HRS15* C
* B,F,G,J,K,M,P,Q,V,W,X,Y,Z,1,2,3 HRS16*
*OMPACT=41,16,0,1,2,3,4,5,6,7,8,9,A,B,C,D,E,F HRS16*
* FROM WASHINGTON SC
*OMPACT=81,14,40,A,C,D,E,G,I,L,N,O,R,S,T,U, C
* B,F,H,J,K,M,P,Q,V,W,X,Y,Z, C
* 0,1,2,3,4,5,6,7,8,9, C
* ,(,+,$,*,),,;,-,/6B,'','=',_@,#,%,&,15,1E,04,0C,0D
* FROM WASHINGTON SC
*OMPACT=82,14,0,1,2,3,4,5,6,7,8,9,40,..,6B,-, C
* A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U,V,W,X,Y,Z, C
* ,(,+,$,*,),,;,-,/6B,'','=',_@,#,%,&,15,1E,04,0C,0D
&TPIDCT=10 NUMBER OF LINES ON HEADER PAGE REMOTE PRINT*
LINE1 UNIT=SNA *
LINE2 UNIT=SNA *
LINE3 UNIT=SNA *
LINE4 UNIT=SNA *
LINE5 UNIT=SNA *
LINE6 UNIT=SNA *
LINE7 UNIT=SNA *
LINE8 UNIT=SNA *
LINE9 UNIT=SNA *
LINE10 UNIT=SNA *
LINE14 UNIT=500,TRANSP,HISPEED,FDUPLEX *
LINE15 UNIT=030,TRANSP *
*INE16 UNIT=069,TRANSP *
LINE17 UNIT=032,TRANSP,FDUPLEX *
*
CONNECT NODEA=11,MEMBA=1,NODEB=08,MEMBB=1,REST=2
CONNECT NODEA=11,MEMBA=1,NODEB=06,MEMBB=1,REST=2
CONNECT NODEA=11,MEMBA=1,NODEB=02,MEMBB=1,REST=2
CONNECT NODEA=11,MEMBA=1,NODEB=12,MEMBB=1,REST=2
CONNECT NODEA=06,MEMBA=1,NODEB=03,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=01,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=05,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=21,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=26,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=04,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=20,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=28,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=31,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=33,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=34,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=35,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=36,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=41,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=49,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=50,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=51,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=52,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=53,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=54,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=55,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=56,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=57,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=58,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=59,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=60,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=61,MEMBB=1,REST=2
CONNECT NODEA=03,MEMBA=1,NODEB=75,MEMBB=1,REST=2
***** RMT1 IS A 3775
RMT1 LUTYPE1,BUFSIZE=256,COMP,CMPCT,NUMPR=1, C
NUMRD=1,SETUPMSG
R1.PR1 PRWIDTH=132,FCBLOAD
R1.RD1 PUDEST=1,PULCL

```

```

***** RMT2 IS A 3777
RMT2  LUTYPE1,BUFSIZE=256,COMP,NOCMPCT,NUMPR=1,          C
      NUMRD=1,SETUPMSG
R2.PR1 PRWIDTH=132,FCBLOAD
R2.RD1 PUDEST=1,PULCL
***** RMT3 IS A SYSTEM/34 PRIME USE ROCHESTER ISC DIAL L14043
RMT3  LUTYPE1,BUFSIZE=256,COMP,NOCMPCT,NUMPR=2,          C
      NUMRD=1,SETUPHDR,NUMPU=1,CONSOLE
R3.PR1 PRWIDTH=132
R3.PR2 PRWIDTH=132
R3.RD1 PUDEST=1,PULCL
R3.PU1
***** RMT4 IS A 5280 PRIME USE B622-3 L24020
RMT4  LUTYPE1,BUFSIZE=256,COMP,NOCMPCT,NUMPR=1,          C
      NUMRD=1,SETUPMSG,NUMPU=1,CONSOLE
R4.PR1 PRWIDTH=132
R4.RD1 PUDEST=1,PULCL
R4.PU1
***** RMT5 IS A SERIES/1
RMT5  LUTYPE1,BUFSIZE=256,COMP,NOCMPCT,NUMPR=1,VARIABLE,  C
      NUMRD=1,SETUPHDR,NUMPU=1,CONSOLE,SETUPINF,WAITIME=001
R5.PR1 PRWIDTH=132,CCTL,COMPACT=0,NOFCBLOD,LRECL=132
R5.RD1 PUDEST=1,PULCL
R5.PU1 LRECL=80,COMPACT=0,NOSEP,NOCOMP
***** RMT6 IS A SYSTEM/36 PRIME USE B622-3C  L13004      **
***** OR L24020 P24020A                                  **
RMT6  LUTYPE1,BUFSIZE=256,COMP,NOCMPCT,NUMPR=2,          C
      NUMRD=1,SETUPHDR,NUMPU=1,CONSOLE
R6.PR1 PRWIDTH=132,NOSEP
R6.PR2 PRWIDTH=132,NOSEP
R6.RD1 PUDEST=1,PULCL
R6.PU1 NOSEP
***** RMT7 IS A SERIES/1
RMT7  LUTYPE1,BUFSIZE=256,COMP,NOCMPCT,NUMPR=1,VARIABLE,  C
      NUMRD=1,SETUPHDR,NUMPU=1,CONSOLE,SETUPINF,WAITIME=001
R7.PR1 PRWIDTH=132,CCTL,COMPACT=0,NOFCBLOD,LRECL=132
R7.RD1 PUDEST=1,PULCL
R7.PU1 LRECL=80,COMPACT=0,NOSEP,NOCOMP
***** RMT7 IS A SERIES/1
RMT7  LUTYPE1,BUFSIZE=256,COMP,NOCMPCT,NUMPR=1,VARIABLE,  C
      NUMRD=1,SETUPHDR,NUMPU=1,CONSOLE,SETUPINF,WAITIME=001
R7.PR1 PRWIDTH=132,CCTL,COMPACT=0,NOFCBLOD,LRECL=132
R7.RD1 PUDEST=1,PULCL
R7.PU1 LRECL=80,COMPACT=0,NOSEP,NOCOMP
***** RMT8 IS A SYSTEM/38 PRIME USE B622-2  LINE02      **
***** SUBAREA 31                                         **
RMT8  LUTYPE1,BUFSIZE=256,COMP,NOCMPCT,NUMPR=2,          C
      NUMRD=1,SETUPHDR,NUMPU=1,CONSOLE
R8.PR1 PRWIDTH=132,NOSEP
R8.PR2 PRWIDTH=132,NOSEP,CLASS=C
R8.RD1 PUDEST=1,PULCL
R8.PU1 NOSEP
*****RMT12 IS JOB ENTRY PROGRAM.
RMT12 LUTYPE1,BUFSIZE=256,COMP,CONSOLE,NUMPR=1,NUMPU=1,  C
      SETUPHDR,DISCINTV=0,VARIABLE,WAITIME=1,LUNAME=JEP22A11
R12.PR1 START,PRWIDTH=132,CLASS=JA,NOSEP
R12.RD1
R12.PU1 START,NOSEP
*****RMT13 IS JOB ENTRY PROGRAM.
RMT13 LUTYPE1,BUFSIZE=256,COMP,CONSOLE,NUMPR=1,NUMPU=1,  C
      SETUPHDR,DISCINTV=0,VARIABLE,WAITIME=1,LUNAME=JEP22B11
R13.PR1 START,PRWIDTH=132,CLASS=JA,NOSEP,UCS=PN
R13.RD1
R13.PU1 NOSEP
*****RMT14 IS JOB ENTRY PROGRAM
RMT14 LUTYPE1,BUFSIZE=256,COMP,CONSOLE,NUMPR=1,NUMPU=1,  C
      SETUPHDR,DISCINTV=0,VARIABLE,WAITIME=1,LUNAME=JEP22C11
R14.PR1 START,PRWIDTH=132,CLASS=JA,NOSEP,UCS=PN
R14.RD1
R14.PU1 NOSEP
*****RMT15 IS JOB ENTRY PROGRAM.
RMT15 LUTYPE1,BUFSIZE=256,COMP,CONSOLE,NUMPR=1,NUMPU=1,  C
      SETUPHDR,DISCINTV=0,VARIABLE,WAITIME=1,LUNAME=JEP22D11
R15.PR1 START,PRWIDTH=132,CLASS=JA,NOSEP
R15.RD1

```

```

R15.PU1 NOSEP
*****RMT16 IS JOB ENTRY PROGRAM.
RMT16 LUTYPE1,BUFSIZE=256,COMP,CONSOLE,NUMPR=1,NUMPU=1,          C
      SETUPHDR,DISCINTV=0,VARIABLE,WAITIME=1,LUNAME=JEP22E11
R16.PR1 START,PRWIDTH=132,CLASS=JA,NOSEP
R16.RD1
R16.PU1 NOSEP
*****RMT17 IS JOB ENTRY PROGRAM
RMT17 LUTYPE1,BUFSIZE=256,COMP,CONSOLE,NUMPR=1,NUMPU=1,          C
      SETUPHDR,DISCINTV=0,VARIABLE,WAITIME=1,LUNAME=JEP22F11
R17.PR1 START,PRWIDTH=132,CLASS=JA,NOSEP
R17.RD1
R17.PU1 NOSEP
*****
*
*
*      RMT41 ----> RMT69      ARE DISPLAYWRITERS
*
*
*
*****
RMT41      2780,TRANSP,NUMPU=1,          X
          MRF,BLOCKED
R41.PU1 NOSEP
R41.PR1 NOSEP
*
RMT42      2780,TRANSP,NUMPU=1,          X
          MRF,UNBLOCK
R42.PU1 NOSEP
R42.PR1 NOSEP
*
RMT43      2780,NOTRANSP,NUMPU=1,       X
          MRF,BLOCKED
R43.PU1 NOSEP
R43.PR1 NOSEP
*
RMT44      2780,NOTRANSP,NUMPU=1,       X
          MRF,UNBLOCK
R44.PU1 NOSEP
R44.PR1 NOSEP
*
RMT45      2780,TRANSP,NUMPU=1,          X
          NOMRF,BLOCKED
R45.PU1 NOSEP
R45.PR1 NOSEP
*
RMT46      2780,TRANSP,NUMPU=1,          X
          NOMRF,UNBLOCK
R46.PU1 NOSEP
R46.PR1 NOSEP
*
RMT47      2780,NOTRANSP,NUMPU=1,       X
          NOMRF,BLOCKED
R47.PU1 NOSEP
R47.PR1 NOSEP
*
RMT48      2780,NOTRANSP,NUMPU=1,       X
          NOMRF,UNBLOCK
R48.PU1 NOSEP
R48.PR1 NOSEP
*
RMT51      3780,TRANSP,NUMPU=1,BLOCKED
R51.PU1 NOSEP
R51.PR1 NOSEP
*
RMT52      3780,TRANSP,NUMPU=1,BLOCKED
R52.PU1 NOSEP
R52.PR1 SEP
*
RMT53      3780,TRANSP,NUMPU=1,BLOCKED,COMP
R53.PU1 NOSEP,COMP
R53.PR1 NOSEP,COMP
*
RMT54      3780,TRANSP,NUMPU=1,BLOCKED,COMP
R54.PU1 NOSEP,COMP
R54.PR1 SEP,COMP

```

```

***** RMT55 IS LU1 FOR JES328X 328X
*
RMT55 LUTYPE1,BUFSIZE=256,NOCOMP,NUMPR=1,NUMRD=0,NUMPU=0,NOCON
R55.PR1 CLASS=A,PRWIDTH=132,NOFCBLOD,NOSEP
***** RMT56 IS LU1 FOR JES328X 328X
*
RMT56 LUTYPE1,BUFSIZE=256,NOCOMP,NUMPR=1,NUMRD=0,NUMPU=0,NOCON
R56.PR1 CLASS=A,PRWIDTH=132,NOFCBLOD,NOSEP
***** RMT57 IS LU1 FOR JES328X 328X
*
RMT57 LUTYPE1,BUFSIZE=256,NOCOMP,NUMPR=1,NUMRD=0,NUMPU=0,NOCON
R57.PR1 CLASS=A,PRWIDTH=132,NOFCBLOD,NOSEP
***** RMT58 IS LU1 FOR JES328X 328X
*
RMT58 LUTYPE1,BUFSIZE=256,NOCOMP,NUMPR=1,NUMRD=0,NUMPU=0,NOCON
R58.PR1 CLASS=A,PRWIDTH=132,NOFCBLOD,NOSEP
***** RMT59 IS LU1 FOR JES328X 328X
*
RMT59 LUTYPE1,BUFSIZE=256,NOCOMP,NUMPR=1,NUMRD=0,NUMPU=0,NOCON
R59.PR1 CLASS=A,PRWIDTH=132,NOFCBLOD,NOSEP
*
RMT61 2770,TRANSP,NUMPU=1,BLOCKED,ABUFEX
R61.PU1 NOSEP
R61.PR1 NOSEP
*
RMT62 2770,TRANSP,NUMPU=1,UNBLOCK,ABUFEX
R62.PU1 NOSEP
R62.PR1 NOSEP
*
RMT63 2770,NOTRANSP,NUMPU=1,BLOCKED,ABUFEX
R63.PU1 NOSEP
R63.PR1 NOSEP
*
RMT64 2770,NOTRANSP,NUMPU=1,UNBLOCK,ABUFEX
R64.PU1 NOSEP
R64.PR1 NOSEP
*
*****RMT81 IS 8100
RMT81 LUTYPE1,BUFSIZE=512,COMP,NOCMPCT,CONSOLE,NUMPR=4, C
      SETUPHDR,DISCINTV=0,VARIABLE,WAITIME=1
R81.PR1 DRAIN,PRWIDTH=132,COMPACT=0,CLASS=A
R81.PR2 DRAIN,PRWIDTH=132,COMPACT=0,NOCOMP,CLASS=A
R81.PR3 DRAIN,PRWIDTH=132,CLASS=A,COMPACT=0
R81.PR4 DRAIN,PRWIDTH=132,COMPACT=0,CLASS=A,NOSEP
R81.RD1 PUDEST=1,PULCL
***** RMT82 IS A 8100 256 BYTE BUFFER
RMT82 LUTYPE1,BUFSIZE=256,COMP,CMPCT,CONSOLE,NUMPR=2, C
      SETUPHDR,DISCINTV=0,VARIABLE,WAITIME=1
R82.PR1 DRAIN,PRWIDTH=132,COMPACT=0,CLASS=A
R82.PR2 DRAIN,PRWIDTH=132,COMPACT=0,CLASS=A,NOSEP
R82.RD1 PUDEST=1,PULCL
***** RMT83 IS A 8100 512 BYTE BUFFER
RMT83 LUTYPE1,BUFSIZE=512,COMP,CMPCT,CONSOLE,NUMPR=4, C
      SETUPHDR,DISCINTV=0,VARIABLE,WAITIME=1
R83.PR1 DRAIN,PRWIDTH=132,COMPACT=0,CLASS=A
R83.PR2 DRAIN,PRWIDTH=132,COMPACT=40,CLASS=A
R83.PR3 DRAIN,PRWIDTH=132,COMPACT=40,CLASS=A
* CKPTPAGE=10 FOR NEW RELEASE
R83.PR4 DRAIN,PRWIDTH=132,COMPACT=40,CLASS=A,NOSEP
R83.RD1 PUDEST=1,PULCL
***** RMT84 IS A 8100,NOSETUPHDR
RMT84 LUTYPE1,BUFSIZE=256,COMP,CMPCT,CONSOLE,NUMPR=4, C
      DISCINTV=0,VARIABLE,WAITIME=1
R84.PR1 DRAIN,PRWIDTH=132,COMPACT=0,CLASS=R
R84.PR2 DRAIN,PRWIDTH=132,COMPACT=40,CLASS=R
R84.PR3 DRAIN,PRWIDTH=132,CLASS=R
R84.PR4 DRAIN,PRWIDTH=132,COMPACT=0,CLASS=R,NOSEP
R84.RD1 PUDEST=1,PULCL
*****
*
***** RMT90 IS A DPCX 8100
*
RMT90 LUTYPE1,BUFSIZE=256,COMP,CMPCT, X
      SETUPHDR,SETUPINF, X

```



```

                CONSOLE, NUMPR=3, NUMPU=1, NUMRD=1
R90.PR1 START, CKPTPAGE=5, LRECL=133, CLASS=AD, COMPACT=0, NOSEP,           X
                FORMS=T12                                           6670
R90.PR2 START, CKPTPAGE=5, LRECL=85, CLASS=I, COMPACT=0, NOSEP           5210
R90.PR3 START, CKPTPAGE=5, LRECL=133, CLASS=N, COMPACT=0, NOSEP        SPOOL
R90.PU1 START, COMPACT=0, NOSEP
R90.RD1 START
*
*****
*
***** RMT91 IS A DPCX 8100
*
RMT91 LUTYPE1, BUFSIZE=256, COMP, CMPCT,                                  X
                SETUPHDR, SETUPINF,                                  X
                CONSOLE, NUMPR=3, NUMPU=1, NUMRD=1
R91.PR1 DRAIN, CKPTPAGE=5, LRECL=133, CLASS=A, COMPACT=0, NOSEP         3289
R91.PR2 DRAIN, CKPTPAGE=1, LRECL=85, CLASS=D, COMPACT=0, NOSEP         3736
R91.PR3 START, CKPTPAGE=5, LRECL=133, CLASS=N, COMPACT=0              SPOOL
R91.PU1 START, COMPACT=0, NOSEP
R91.RD1 START
*
*****
*
*+++++ RMT95 = ID ASSIGNED TO 6670/IDWS
RMT95 LUTYPE1, BUFSIZE=256, NOCOMP, NUMPR=1, NUMRD=0, NUMPU=1
R95.PR1 DRAIN, PRWIDTH=132
R95.PU1 DRAIN
*
*****
*
***** RMT99 IS A 3777-2 BSC MULTILEAVING TERMINAL.
*
RMT99 M20-5, MULTI, CONSOLE, SETUPINF, LINE=15, TRANSP
R99.PR1 START, PRWIDTH=132
R99.RD1 DRAIN
*
*****
*
***** RMT100 IS LU1 FOR JES328X 6670
*
RMT100 LUTYPE1, BUFSIZE=256, NOCOMP, NUMPR=1, NUMRD=0, NUMPU=1, NOCON
R100.PR1 CLASS=A, PRWIDTH=132, FCBLD, NOSEP
R100.PU1 CLASS=B, NOCCTL, SELECT=BASIC1, NOSEP
DESTID NAME=T6670, DEST=R100
*
***** RMT101 IS LU1 FOR JES328X 6670
*
RMT101 LUTYPE1, BUFSIZE=256, NOCOMP, NUMPR=1, NUMRD=0, NUMPU=1, NOCON
R101.PR1 CLASS=A, PRWIDTH=132, NOFCBLD, NOSEP
R101.PU1 CLASS=B, NOCCTL, SELECT=BASIC1, NOSEP
*ESTID NAME=T6670, DEST=R101
*
*****
*
***** RMT102 IS LU1 FOR JES328X 3287
*
RMT102 LUTYPE1, BUFSIZE=256, NOCOMP, NUMPR=1, NUMRD=0, NOCOMPCT, NOCON
R102.PR1 CLASS=A, PRWIDTH=132, FCBLD, CKPTPAGE=1
*ESTID NAME=T3287, DEST=R102
*
*****
*
* - RMT LINE DEFAULTS - CODEA, LOWSPEED, IFACEA, ADISCON, EBCDIC, HDUPLEX
*
* - RMT NUM DEFAULTS - BLOCKED, NOMRF, NOTRANSF, HARDWARE, NOTABS, NUMPR=1,
*                       NUMRD=1, NUMPU=0, VARIABLE, NOBUFEX, NOABUFEX,
*                       NOCOMP, NOCON, DISCINTV=0, PASSWORD=, LINE=
*
* - RMT PRT DEFAULTS - CLASS=AJ, START, NOFCBLD, SEP, SUSPEND,
*                       PRWIDTH=120, FORMS=STD., UCS=, FCB=
*
* - RMT PUN DEFAULTS - CLASS=BK, START, SEP, SUSPEND, FORMS=STD.
*
* - RMT RDR DEFAULTS - CLASS=A, MSGCLASS=A, START, NOHOLD, PRDEST=,

```

```

*                PRIOLIM=15,PRIOINC=,PUDEST=
*
$TOSC1,D=T
.$TOSC2,D=T
.$TOSC3,D=T
.$TOSC4,D=T
.$TOSC5,D=T
.$TOSC6,D=J
.$TOSC7,D=J
.$TOSC8,D=J
.$TOSC9,D=J
.$TOSC10,D=J
.$TOSC11,D=J
.$TOSC12,D=J
.$T NUM,BASE=1
.$TTS1
.$SPRT1
.$SPRT2
.$SPRT3
.$SPRT4
.$SPRT5
/*

```

ACF/VTAM

Start Parameter Definition

```

./  ADD    NAME=ATCSTR00,LEVEL=00,SOURCE=0,LIST=ALL
*****
*
*  MINIMUM STARTUP - SHOULD BE USED FOR MVS ACF/VTAM
*
*****
PROMPT,SUPP=NOSUP
./  ENDUP
/*

```

Note: The above startup definition can be used to initialize ACF/VTAM. The default buffer values should be changed before activating any nodes. VTAM will ask for SSCPID.

Start Parameter Definition (SA11)

```
./  ADD  NAME=ATCSTR11,LEVEL=00,SOURCE=0,LIST=ALL
*****
*
*  ATCSTR00 IS REQUIRED OR THIS DEFINITION CAN REPLACE IT.
*
*****
SSCPID=11,MAXSUBA=63,HOSTSA=11,MAXAPPL=200,VTAMEAS=100,
CONFIG=11,SUPP=NOSUP,
NOTRACE,TYPE=VTAM,IOINT=0,
CSALIMIT=0500,
TNSTAT,CNSL,
IOBUF=(116,152,3,,1,28),
LPBUF=(12,,2,,1,4),
LFBUF=(,,,1,1),
CRPLBUF=(,,,1,4),
SFBUF=(,,,1,1),
WPBUF=(30,,,1,1)
./  ENDUP
/*
```

Note: The IOBUF (BUFSIZE) Parameter must equal the UNITSZ value in the ACF/NCP HOST macro definition. The format of the buffer pool start parameters is
XXBUF=(BASENO,BUFSIZE,SLOWPT,XPANNO,XPANPT)
as indicated below.
XPANNO of 1 will cause ACF/VTAM to acquire 1 page of buffers since they are always acquired in page increments.
UECBUF=(,,,1,5)

Note: The difference between SLOWPT and XPANPT must be greater than the largest MAXBFRU defined in any ACF/NCP or Local definition.

Note: Details for coding and filing start parameters are found in ACF/VTAM V2 Planning and Installation SC27-0610

Configuration Definition

```
./  ADD  NAME=ATCCON11
*****
*
*  START-UP CONFIGURATION WITH CDRM, PATHS, AND CROSS-DOMAIN
*
*****
A11NCF,D11PATH,M00,A11TSO,A11APP,
A11TAF,A11IMS,A11CICS,A11DPCX,A11CDN,A11NCFT,
H11L,H11S,
R10ANCF,R10APP,R10ATSO,
R12ANCF,R12APP,R12ACICS,R12AJEP,R12CDN,
RSYS8JES,RSYS2JES,
SWSYS34,SW6580AU,SWPC,SW5520,SW4700,SWSER1
./  ENDUP
/*
```

Note: ATCCON11 will activate all applications, paths, and cross-domain resources. Note that NCPs are not included in this list. NCPs should be brought active after NCCF, NPDA, and NLDM are active.

Application Definition Examples

```

*****
*
* APPLICATION PROGRAM DEFINITION FOR ACF/VTAM
* WHERE THE OPERANDS AVAILABLE ARE:
*
* ACBNAME=ACBNAME, MINOR NODE NAME. DEFAULTS TO NAME
* ON APPL STATEMENT.
*
* PRTCT=PASSWORD, PASSWORD MUST ALSO BE DEFINED IN
* APPLICATION PROGRAM 'ACB'.
*
* VPACING=N, MAXIMUM NUMBER OF NORMAL-FLOW
* REQUESTS FROM LU.
*
* MODETAB=MODETAB NAME, NAME OF MODETAB TO BE USED BY THE
* APPLICATION.
*
* DLOGMOD=DEFAULT LOG- NAME OF LOGMODE ENTRY TO BE USED
* MODE ENTRY IF NONE IS OTHERWISE PROVIDED.
*
* EAS=N|404, NUMBER OF CONCURRENT SESSIONS THIS
* APPLICATION PROGRAM WILL HAVE WITH
* ANY LOGICAL UNITS.
*
* AUTH=(ACQ|NOACQ, ALLOWS APPLICATION PROGRAM TO USE
* THE OPNDST MACRO WITH THE
* ACQUIRE OPTION.
*
* PPO|SPO|NOPO, DEFAULTS TO NOPO. SEE THE PROGRAM
* OPERATOR GUIDE FOR ITS USE.
*
* CNM|NOCNM, DEFAULTS TO NOCNM. USED BY NCCF AND
* NPDA FOR PROB. DETERMINATION.
*
* VPACE|NVPACE, DETERMINES IF APPLICATION IS TO BE
* SUBJECT TO VPACING FOR LU. DEFAULTS
* TO VPACING.
*
* PASS|NOPASS, ALLOWS USE OF CLSDST MACRO
* WITH THE PASS OPTION.
*
* TCAM) ALLOWS PATH TO TCAM
*****

```

APP Application

```

./ ADD NAME=A11APP,LEVEL=00,SOURCE=0,LIST=ALL
    VBUILD TYPE=APPL
NPA11 APPL AUTH=(ACQ),ACBNAME=NPA,EAS=(5)
QZRCOMM APPL AUTH=(SPO,ACQ)
RMU11 APPL AUTH=(ACQ),ACBNAME=RMUHOST,EAS=(5),VPACING=7
RALVSMV3 APPL AUTH=(ACQ),EAS=(5),ACBNAME=RALVSMV3,VPACING=7, X
    MODETAB=MODENJE,DLOGMOD=MTNJE77
SYSHTF APPL AUTH=(ACQ,PASS,VPACE),EAS=(8)
VTAMTEST APPL AUTH=ACQ,EAS=20
HCF11 APPL AUTH=(ACQ,PASS,VPACE),ACBNAME=HCF,PRTCT=HCF,EAS=(64)
LCV11 APPL AUTH=(ACQ,PASS,VPACE),ACBNAME=LCV,PRTCT=LCV,EAS=(23)
DSX11 APPL AUTH=(ACQ,PASS,VPACE),ACBNAME=DSX,EAS=(5),VPACING=7
DSXIOF APPL AUTH=(ACQ,VPACE),ACBNAME=DSXIOF,EAS=(5),VPACING=7
IDWS11 APPL AUTH=(ACQ),EAS=(5),ACBNAME=IDWS
RMT100 APPL AUTH=ACQ,EAS=1
RMT101 APPL AUTH=ACQ,EAS=1
ADMPRINT APPL AUTH=(ACQ),ACBNAME=ADMPRINT,EAS=(10)
ECHO11 APPL AUTH=(ACQ,PASS),PARSESS=YES,SONSCIP=YES
ECHO11A APPL AUTH=(ACQ,PASS),PARSESS=YES,SONSCIP=YES
SNAP11 APPL AUTH=(ACQ,PASS),PARSESS=YES,SONSCIP=YES
VMDISC APPL AUTH=(NOACQ),ACBNAME=VMDISC
SYSPSS APPL AUTH=(PASS,ACQ)
./ ENDUP
/*

```

CDN Application

```
./ ADD NAME=A11CDN,LEVEL=00,SOURCE=0,LIST=ALL
A11CDN VBUILD TYPE=APPL
CDN11S12 APPL AUTH=(ACQ)
CDN11R12 APPL AUTH=(ACQ),EAS=1,VPACING=10
CDN11S10 APPL AUTH=(ACQ)
CDN11R10 APPL AUTH=(ACQ),EAS=1,VPACING=10
./ ENDUP
/*
```

CICS Application

```
./ ADD NAME=A11CICS,LEVEL=00,SOURCE=0,LIST=ALL
VBUILD TYPE=APPL
CICSMVS2 APPL ACBNAME=CICSMVS2,AUTH=(ACQ,PASS,VPACE), X
DLOGMOD=CICSPARS,MODETAB=MTAPPC, X
EAS=200,PARSESS=YES,VPACING=4,SONSCIP=YES
CICS11 APPL ACBNAME=CICS11,AUTH=(ACQ,PASS,VPACE), X
DLOGMOD=CICSPARS,MODETAB=MTAPPC, X
EAS=200,PARSESS=YES,VPACING=3,SONSCIP=YES
./ ENDUP
/*
```

DPCX Application

```
./ ADD NAME=A11DPCX,LEVEL=00,SOURCE=0,LIST=ALL
SSS11 APPL AUTH=(ACQ),ACBNAME=SYSSSS,EAS=5
DIF11 APPL AUTH=(ACQ,NVPACE),ACBNAME=DVXBCA,EAS=5
HPGM11 APPL ACBNAME=HOSTPGM1,EAS=5
SIRF11 APPL AUTH=(ACQ),ACBNAME=SIRF,EAS=5
IPVS11 APPL AUTH=(ACQ),ACBNAME=IPVSPGEN,EAS=5
./ ENDUP
/*
```

IMS Application

```
./ ADD NAME=A11IMS,LEVEL=00,SOURCE=0,LIST=ALL
VBUILD TYPE=APPL
IMS11 APPL ACBNAME=IMS11,AUTH=(ACQ,PASS,VPACE), X
DLOGMOD=IMSPARS,MODETAB=MTAPPC, X
EAS=20,PARSESS=YES,VPACING=7
IMSB APPL ACBNAME=IMSB,AUTH=(ACQ,PASS,VPACE), X
DLOGMOD=IMSPARS,MODETAB=MTAPPC, X
EAS=20,PARSESS=YES,VPACING=7
IMSMVS2 APPL ACBNAME=IMSMVS2,AUTH=(ACQ,PASS,VPACE), X
DLOGMOD=IMSPARS,MODETAB=MTAPPC, X
EAS=20,PARSESS=YES,VPACING=7
./ ENDUP
/*
```

NCCF Application

```
./ ADD NAME=A11NCF,LEVEL=00,SOURCE=0,LIST=ALL
*****
*
* APPL DEFINITION STATEMENTS FOR NCF11 (ACTIVE CNMI) *
*
*****
      VBUILD TYPE=APPL
NCF11      APPL AUTH=(ACQ,PASS),MODETAB=NCCFXDOM,EAS=20
NCF11PPT  APPL AUTH=(PPO),EAS=5
BNJDSERV  APPL AUTH=(CNM),EAS=5
AAUTSKLP  APPL AUTH=(CNM),EAS=5
DSIAMLUT  APPL AUTH=(ACQ),VPACING=15
NCF11SPT  APPL AUTH=(SPO),EAS=5
NCF11000  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11001  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11002  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11003  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11004  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11005  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11006  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11007  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11008  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11009  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11010  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11011  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11012  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11013  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11014  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11015  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11016  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11017  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11018  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11019  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11020  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11021  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11022  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11023  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11024  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11025  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
./      ENDUP
/*
```

NCCF Application

```
./ ADD NAME=A11NCF1,LEVEL=00,SOURCE=0,LIST=ALL
*****
*
* APPL DEFINITION STATEMENTS FOR NCF11 (ACTIVE CNMI) *
*
*****
      VBUILD TYPE=APPL
NCF11      APPL AUTH=(ACQ,PASS),MODETAB=NCCFXDOM,EAS=10,ACBNAME=NCF11
NCF11PPT  APPL AUTH=(SPO),EAS=5
NCF11SPT  APPL AUTH=(SPO),EAS=5
NCF11VMT  APPL AUTH=(SPO),EAS=5
NCF11000  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11001  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
NCF11002  APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=5
COMM1750  APPL AUTH=(ACQ),EAS=10,ACBNAME=COMM1750
./      ENDUP
/*
```

TAF Application

```
./ ADD NAME=A11TAF,LEVEL=00,SOURCE=0,LIST=ALL
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
* *
* APPL DEFINITION STATEMENTS FOR TAF *
* *
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
VBUILD TYPE=APPL
TAF11000 APPL MODETAB=MODETAB1,EAS=9
TAF11001 APPL MODETAB=MODETAB1,EAS=9
TAF11002 APPL MODETAB=MODETAB1,EAS=9
TAF11003 APPL MODETAB=MODETAB1,EAS=9
TAF11004 APPL MODETAB=MODETAB1,EAS=9
TAF11005 APPL MODETAB=MODETAB1,EAS=9
TAF11006 APPL MODETAB=MODETAB1,EAS=9
TAF11007 APPL MODETAB=MODETAB1,EAS=9
TAF11008 APPL MODETAB=MODETAB1,EAS=9
TAF11009 APPL MODETAB=MODETAB1,EAS=9
TAF11F00 APPL MODETAB=MTLUTY2,EAS=9
TAF11F01 APPL MODETAB=MTLUTY2,EAS=9
TAF11F02 APPL MODETAB=MTLUTY2,EAS=9
TAF11F03 APPL MODETAB=MTLUTY2,EAS=9
TAF11F04 APPL MODETAB=MTLUTY2,EAS=9
TAF11F05 APPL MODETAB=MTLUTY2,EAS=9
TAF11F06 APPL MODETAB=MTLUTY2,EAS=9
TAF11F07 APPL MODETAB=MTLUTY2,EAS=9
TAF11F08 APPL MODETAB=MTLUTY2,EAS=9
TAF11F09 APPL MODETAB=MTLUTY2,EAS=9
TAF11F10 APPL MODETAB=MT3274A2,EAS=9
./
/*
ENDUP
```

TSO Application

```
./ ADD NAME=A11TSO,LEVEL=00,SOURCE=0,LIST=ALL
    VBUILD TYPE=APPL
TS011  APPL AUTH=(NOACQ,PASS,NVPACE,TSO,NOPO),          X
        EAS=1,ACBNAME=TSO
TS01101 APPL AUTH=(NOACQ,PASS,NVPACE,TSO,NOPO),        *
        EAS=1,ACBNAME=TS00001
TS01102 APPL AUTH=(NOACQ,PASS,NVPACE,TSO,NOPO),        *
        EAS=1,ACBNAME=TS00002
TS01103 APPL AUTH=(NOACQ,PASS,NVPACE,TSO,NOPO),        *
        EAS=1,ACBNAME=TS00003
TS01104 APPL AUTH=(NOACQ,PASS,NVPACE,TSO,NOPO),        *
        EAS=1,ACBNAME=TS00004
TS01105 APPL AUTH=(NOACQ,PASS,NVPACE,TSO,NOPO),        *
        EAS=1,ACBNAME=TS00005
TS01106 APPL AUTH=(NOACQ,PASS,NVPACE,TSO,NOPO),        *
        EAS=1,ACBNAME=TS00006
TS01107 APPL AUTH=(NOACQ,PASS,NVPACE,TSO,NOPO),        *
        EAS=1,ACBNAME=TS00007
TS01108 APPL AUTH=(NOACQ,PASS,NVPACE,TSO,NOPO),        *
        EAS=1,ACBNAME=TS00008
TS01109 APPL AUTH=(NOACQ,PASS,NVPACE,TSO,NOPO),        *
        EAS=1,ACBNAME=TS00009
TS01110 APPL AUTH=(NOACQ,PASS,NVPACE,TSO,NOPO),        *
        EAS=1,ACBNAME=TS00010
TS01111 APPL AUTH=(NOACQ,PASS,NVPACE,TSO,NOPO),        *
        EAS=1,ACBNAME=TS00011
TS01112 APPL AUTH=(NOACQ,PASS,NVPACE,TSO,NOPO),        *
        EAS=1,ACBNAME=TS00012
TS01113 APPL AUTH=(NOACQ,PASS,NVPACE,TSO,NOPO),        *
        EAS=1,ACBNAME=TS00013
TS01114 APPL AUTH=(NOACQ,PASS,NVPACE,TSO,NOPO),        *
        EAS=1,ACBNAME=TS00014
TS01115 APPL AUTH=(NOACQ,PASS,NVPACE,TSO,NOPO),        *
        EAS=1,ACBNAME=TS00015
./      ENDUP
/*
```

Note: The first 3 characters of the appl name must be TSO in order for NCCF/TAF to work correctly.

PATH Definitions

```
./ ADD NAME=D11PATH,LEVEL=00,SOURCE=0,LIST=ALL
    PATH DESTSA=1,                                       X
        ER0=(14,1),ER1=(14,1),ER2=(24,1),ER3=(13,1),  X
        ER4=(24,1),ER7=(1,1),                          X
        VR0=0,VR1=1,VR2=2,VR3=3,VR4=4,VR7=7
    PATH DESTSA=10,                                     X
        ER0=(13,1),ER1=(13,1),ER2=(14,1),ER3=(13,1),  X
        ER4=(24,1),ER5=(14,1),                          X
        VR0=0,VR1=0,VR2=0,VR3=3,VR4=4
    PATH DESTSA=12,                                     X
        ER0=(13,1),ER1=(13,1),ER2=(24,1),ER5=(14,1),  X
        VR0=0,VR1=0,VR2=0,VR3=5,VR4=2
    PATH DESTSA=13,                                     X
        ER0=(13,1),ER1=(13,1),ER2=(24,1),ER5=(14,1),  X
        VR0=0,VR1=0,VR2=0,VR3=5,VR4=2
    PATH DESTSA=14,                                     X
        ER0=(13,1),ER1=(13,1),ER3=(13,1),ER4=(24,1),  X
        ER5=(14,1),                                      X
        VR0=0,VR1=0,VR2=0,VR3=3,VR4=4
./      ENDUP
/*
```


LOCAL Definitions

```
./  ADD NAME=H11L,LEVEL=00,SOURCE=0,LIST=ALL
    LBUILD
H11L420  LOCAL  CUADDR=420,TERM=3277,FEATUR2=(MODEL2,NOEDATS),      X
          MODETAB=MT3270,USSTAB=US3270,                            X
          ISTATUS=ACTIVE,SPAN=(SPH11L)
H11L421  LOCAL  CUADDR=421,TERM=3277,FEATUR2=(MODEL2,NOEDATS),      X
          MODETAB=MT3270,USSTAB=US3270,                            X
          ISTATUS=ACTIVE,SPAN=(SPH11L)
H11L422  LOCAL  CUADDR=422,TERM=3277,FEATUR2=(MODEL2,NOEDATS),      X
          MODETAB=MT3270,USSTAB=US3270,                            X
          ISTATUS=ACTIVE,SPAN=(SPH11L)
H11L423  LOCAL  CUADDR=423,TERM=3277,FEATUR2=(MODEL2,NOEDATS),      X
          MODETAB=MT3270,USSTAB=US3270,                            X
          ISTATUS=ACTIVE,SPAN=(SPH11L)
H11L424  LOCAL  CUADDR=424,TERM=3277,FEATUR2=(MODEL2,NOEDATS),      X
          MODETAB=MT3270,USSTAB=US3270,                            X
          ISTATUS=ACTIVE,SPAN=(SPH11L)
H11L425  LOCAL  CUADDR=425,TERM=3277,FEATUR2=(MODEL2,NOEDATS),      X
          MODETAB=MT3270,USSTAB=US3270,                            X
          ISTATUS=ACTIVE,SPAN=(SPH11L)
H11L426  LOCAL  CUADDR=426,TERM=3277,FEATUR2=(MODEL2,NOEDATS),      X
          MODETAB=MT3270,USSTAB=US3270,                            X
          ISTATUS=ACTIVE,SPAN=(SPH11L)
H11L427  LOCAL  CUADDR=427,TERM=3277,FEATUR2=(MODEL2,NOEDATS),      X
          MODETAB=MT3270,USSTAB=US3270,                            X
          ISTATUS=ACTIVE,SPAN=(SPH11L)
H11L428  LOCAL  CUADDR=428,TERM=3277,FEATUR2=(MODEL2,NOEDATS),      X
          MODETAB=MT3270,USSTAB=US3270,                            X
          ISTATUS=ACTIVE,SPAN=(SPH11L)
H11L429  LOCAL  CUADDR=429,TERM=3277,FEATUR2=(MODEL2,NOEDATS),      X
          MODETAB=MT3270,USSTAB=US3270,                            X
          ISTATUS=ACTIVE,SPAN=(SPH11L)
H11L42A  LOCAL  CUADDR=42A,TERM=3277,FEATUR2=(MODEL2,NOEDATS),      X
          MODETAB=MT3270,USSTAB=US3270,                            X
          ISTATUS=ACTIVE,SPAN=(SPH11L)
H11L42B  LOCAL  CUADDR=42B,TERM=3277,FEATUR2=(MODEL2,NOEDATS),      X
          MODETAB=MT3270,USSTAB=US3270,                            X
          ISTATUS=ACTIVE,SPAN=(SPH11L)
H11L42C  LOCAL  CUADDR=42C,TERM=3277,FEATUR2=(MODEL2,NOEDATS),      X
          MODETAB=MT3270,USSTAB=US3270,                            X
          ISTATUS=ACTIVE,SPAN=(SPH11L)
H11L42D  LOCAL  CUADDR=42D,TERM=3277,FEATUR2=(MODEL2,NOEDATS),      X
          MODETAB=MT3270,USSTAB=US3270,                            X
          ISTATUS=ACTIVE,SPAN=(SPH11L)
H11L42E  LOCAL  CUADDR=42E,TERM=3277,FEATUR2=(MODEL2,NOEDATS),      X
          MODETAB=MT3270,USSTAB=US3270,                            X
          ISTATUS=ACTIVE,SPAN=(SPH11L)
```

H11L42F	LOCAL	CUADDR=42F,TERM=3286,FEATUR2=(MODEL2), MODETAB=MT3270,ISTATUS=INACTIVE,SPAN=(SPH11L)	X
H11L430	LOCAL	CUADDR=430,TERM=3277,FEATUR2=(MODEL2,NOEDATS), MODETAB=MT3270,USSTAB=US3270, ISTATUS=ACTIVE,SPAN=(SPH11L)	X X
H11L431	LOCAL	CUADDR=431,TERM=3277,FEATUR2=(MODEL2,NOEDATS), MODETAB=MT3270,USSTAB=US3270, ISTATUS=ACTIVE,SPAN=(SPH11L)	X X
H11L432	LOCAL	CUADDR=432,TERM=3277,FEATUR2=(MODEL2,NOEDATS), MODETAB=MT3270,USSTAB=US3270, ISTATUS=ACTIVE,SPAN=(SPH11L)	X X
H11L433	LOCAL	CUADDR=433,TERM=3277,FEATUR2=(MODEL2,NOEDATS), MODETAB=MT3270,USSTAB=US3270, ISTATUS=ACTIVE,SPAN=(SPH11L)	X X
H11L434	LOCAL	CUADDR=434,TERM=3277,FEATUR2=(MODEL2,NOEDATS), MODETAB=MT3270,USSTAB=US3270, ISTATUS=ACTIVE,SPAN=(SPH11L)	X X
H11L435	LOCAL	CUADDR=435,TERM=3277,FEATUR2=(MODEL2,NOEDATS), MODETAB=MT3270,USSTAB=US3270, ISTATUS=ACTIVE,SPAN=(SPH11L)	X X
H11L436	LOCAL	CUADDR=436,TERM=3277,FEATUR2=(MODEL2,NOEDATS), MODETAB=MT3270,USSTAB=US3270,DLOGMOD=M3278M3, ISTATUS=ACTIVE,SPAN=(SPH11L)	X X
H11L437	LOCAL	CUADDR=437,TERM=3277,FEATUR2=(MODEL2,NOEDATS), MODETAB=MT3270,USSTAB=US3270,DLOGMOD=M3278M3, ISTATUS=ACTIVE,SPAN=(SPH11L)	X X
H11L438	LOCAL	CUADDR=438,TERM=3277,FEATUR2=(MODEL2,NOEDATS), MODETAB=MT3270,USSTAB=US3270, ISTATUS=ACTIVE,SPAN=(SPH11L)	X X
H11L439	LOCAL	CUADDR=439,TERM=3277,FEATUR2=(MODEL2,NOEDATS), MODETAB=MT3270,USSTAB=US3270, ISTATUS=ACTIVE,SPAN=(SPH11L)	X X
H11L3E5	LOCAL	CUADDR=43A,TERM=3277,FEATUR2=(MODEL2,NOEDATS), MODETAB=MT3270,USSTAB=US3270, ISTATUS=ACTIVE,SPAN=(SPH11L)	X X
H11L3E6	LOCAL	CUADDR=43B,TERM=3277,FEATUR2=(MODEL2,NOEDATS), MODETAB=MT3270,USSTAB=US3270, ISTATUS=ACTIVE,SPAN=(SPH11L)	X X
H11L3E7	LOCAL	CUADDR=43C,TERM=3277,FEATUR2=(MODEL2,NOEDATS), MODETAB=MT3270,USSTAB=US3270, ISTATUS=ACTIVE,SPAN=(SPH11L)	X X
./	ENDUP		
/*			

LOCAL Definitions

```

./ ADD NAME=H11S,LEVEL=00,SOURCE=0,LIST=ALL
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
* LOCAL 3274-1A DEFINITIONS *
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
H11S VBUILD TYPE=LOCAL
H11S08FP PU CUADDR=20C, ISTATUS=ACTIVE, PUTYPE=2, MAXBFRU=10, X
USSTAB=US3276
H11S08F1 LU LOCADDR=2, FIRST LU MUST BE LOCADDR=2 X
MODETAB=MT3274A3, DLOGMOD=GMOD3E, X
ISTATUS=ACTIVE (V) VTAM
H11S08F2 LU LOCADDR=3, X
MODETAB=MT3274A3, DLOGMOD=PMD2E, X
ISTATUS=ACTIVE (V) VTAM
H11S08F3 LU LOCADDR=4, X
MODETAB=MT3274A3, DLOGMOD=GMOD3E, X
ISTATUS=ACTIVE (V) VTAM
H11S08F4 LU LOCADDR=5, X
MODETAB=MT3274A3, DLOGMOD=GMOD3E, X
ISTATUS=ACTIVE (V) VTAM
H11S08F5 LU LOCADDR=6, X
MODETAB=MT3274A2, DLOGMOD=GMOD2E, X
ISTATUS=ACTIVE (V) VTAM
H11S08F6 LU LOCADDR=7, X
MODETAB=MT3274A3, DLOGMOD=T3278M3, X
ISTATUS=ACTIVE (V) VTAM
H11S08F7 LU LOCADDR=8, X
MODETAB=MT3274A2, DLOGMOD=GMOD2E, X
ISTATUS=ACTIVE (V) VTAM
H11S08F8 LU LOCADDR=9, X
MODETAB=MT3274A2, DLOGMOD=T3278M2, X
ISTATUS=ACTIVE (V) VTAM
./ ENDUP
/*

```

CDRM Definitions

```
./ ADD NAME=M00,LEVEL=00,SOURCE=0,LIST=ALL
    VBUILD TYPE=CDRM
M01 CDRM SUBAREA=01,ISTATUS=INACTIVE,CDRSC=OPT,CDRDYN=YES
M03 CDRM SUBAREA=03,ISTATUS=INACTIVE,CDRSC=OPT
M09 CDRM SUBAREA=09,ISTATUS=INACTIVE,CDRSC=OPT
M10 CDRM SUBAREA=10,ISTATUS=ACTIVE,CDRSC=OPT,CDRDYN=YES
M11 CDRM SUBAREA=11,ISTATUS=ACTIVE,CDRSC=OPT,CDRDYN=YES
M12 CDRM SUBAREA=12,ISTATUS=ACTIVE,CDRSC=OPT,CDRDYN=YES
M19 CDRM SUBAREA=19,ISTATUS=INACTIVE,CDRSC=OPT
M21 CDRM SUBAREA=21,ISTATUS=ACTIVE,CDRSC=OPT,CDRDYN=YES
M22 CDRM SUBAREA=22,ISTATUS=INACTIVE,CDRSC=OPT,CDRDYN=YES
M29 CDRM SUBAREA=29,ISTATUS=INACTIVE,CDRSC=OPT
M31 CDRM SUBAREA=31,ISTATUS=ACTIVE,CDRSC=OPT,CDRDYN=YES
M41 CDRM SUBAREA=41,ISTATUS=INACTIVE,CDRSC=OPT,CDRDYN=YES
M60 CDRM SUBAREA=60,ISTATUS=ACTIVE,CDRSC=OPT,CDRDYN=YES
M61 CDRM SUBAREA=61,ISTATUS=ACTIVE,CDRSC=OPT,CDRDYN=YES
./ ENDUP
/*
```

CDRSC Definitions

```
./ ADD NAME=R12ACICS,LEVEL=00,SOURCE=0,LIST=ALL
    VBUILD TYPE=CDRSC
CICS12 CDRSC CDRM=M12
./ ENDUP
/*
```

CDRSC Definitions

```
./ ADD NAME=R12AJEP,LEVEL=00,SOURCE=0,LIST=ALL
R12AJEP VBUILD TYPE=CDRSC
JEP12A11 CDRSC CDRM=M12
JEP12B11 CDRSC CDRM=M12
JEP12C11 CDRSC CDRM=M12
JEP12D11 CDRSC CDRM=M12
JEP12E11 CDRSC CDRM=M12
JEP12F11 CDRSC CDRM=M12
./ ENDUP
/*
```

CDRSC Definitions

```
./ ADD NAME=R12ANCF,LEVEL=00,SOURCE=0,LIST=ALL
    VBUILD TYPE=CDRSC
NCF12 CDRSC CDRM=M12
NCF12000 CDRSC CDRM=M12
NCF12001 CDRSC CDRM=M12
NCF12002 CDRSC CDRM=M12
NCF12012 CDRSC CDRM=M12
NCF12004 CDRSC CDRM=M12
NCF12005 CDRSC CDRM=M12
NCF12006 CDRSC CDRM=M12
NCF12007 CDRSC CDRM=M12
NCF12008 CDRSC CDRM=M12
NCF12009 CDRSC CDRM=M12
./ ENDUP
/*
```

CDRSC Definitions

```
./ ADD NAME=R12APP,LEVEL=00,SOURCE=0,LIST=ALL
    VBUILD TYPE=CDRSC
POWER    CDRSC CDRM=M12
VCNA12   CDRSC CDRM=M12
SEND12   CDRSC CDRM=M12
RECV12   CDRSC CDRM=M12
RALVSE3  CDRSC CDRM=M12
./       ENDUP
/*
```

CDRSC Definitions

```
./ ADD NAME=R12CDN,LEVEL=00,SOURCE=0,LIST=ALL
R12CDN  VBUILD TYPE=CDRSC
CDN12S11 CDRSC CDRM=M12
CDN12R11 CDRSC CDRM=M12
./       ENDUP
/*
```

CDRSC Definitions

```
./ ADD NAME=RSYS2JES,LEVEL=00,SOURCE=0,LIST=ALL
    VBUILD TYPE=CDRSC
RALYDPD2 CDRSC CDRM=M10
./       ENDUP
/*
```

CDRSC Definitions

```
./ ADD NAME=RSYS8JES,LEVEL=00,SOURCE=0,LIST=ALL
    VBUILD TYPE=CDRSC
RALVSMV8 CDRSC CDRM=M21
./       ENDUP
/*
```

SWITCHED Definitions

All the switched definitions are given in Chapter 9.

MVS COSTAB Installation JCL

```
//COSTAB JOB 'COSTAB ASSEMBLY',CLASS=C
//STEP1 EXEC ASMFCL
//ASM.SYSPUNCH DD DUMMY
//ASM.SYSIN DD *
*****
* CLASS OF SERVICE TABLE *
*****
ISTSDCOS COSTAB
ISTVTCOS COS VR=((7,2),(1,2),(2,2),(3,2),(4,2),(5,2),(6,2),(0,0))
CICS COS VR=((7,2),(1,2),(0,2),(2,2),(3,2),(4,2),(0,0))
IMS COS VR=((7,2),(1,2),(0,2),(2,2),(3,2),(4,2),(0,0))
NCCF COS VR=((7,2),(1,2),(0,2),(2,2),(3,2),(4,2),(0,0))
TSO COS VR=((0,2),(1,2),(2,2),(3,2),(4,2),(0,0))
TS01 COS VR=((1,2),(2,2),(0,2),(3,2),(4,2),(0,0))
TS02 COS VR=((2,2),(3,2),(0,2),(1,2),(4,2),(0,0))
TS03 COS VR=((3,2),(2,2),(1,2),(0,2),(4,2),(0,0))
TS04 COS VR=((4,2),(2,2),(3,2),(1,2),(0,2),(0,0))
TS07 COS VR=((7,2),(1,2),(2,2),(3,2),(0,2),(0,0))
NJE COS VR=((7,2),(1,0),(0,0),(2,0),(3,0),(4,0))
ECHO00 COS VR=((0,0),(1,0),(2,0),(3,0),(4,0))
ECHO01 COS VR=((0,1),(1,1),(2,1),(3,1),(4,1),(0,0))
ECHO02 COS VR=((0,2),(1,2),(2,2),(3,2),(4,2),(0,0))
ECHO1 COS VR=((1,0),(2,0),(0,0),(3,0),(4,0))
ECHO11 COS VR=((1,1),(2,1),(0,1),(3,1),(4,1),(0,0))
ECHO12 COS VR=((1,2),(2,2),(0,2),(3,2),(4,2),(0,0))
ECHO2 COS VR=((2,0),(1,0),(0,0),(3,0),(4,0))
COS VR=((1,1),(2,1),(3,1),(4,1),(5,1),(6,1),(7,1),(0,0))
COSEND
END
//LKED.SYSLMOD DD DSN=SA11.VTAMLIB(Name),DISP=SHR
/*
```

Note: In this manual only the ISTVTCOS and the last entry(=blank) were used.

MVS MODETAB Assembly

```
//MODETAB JOB 'MODETAB ASSEMBLY',MSGLEVEL=1,CLASS=C
//STEP1 EXEC ASMFCL
//ASM.SYSPUNCH DD DUMMY
//ASM.SYSIN DD *
*****
*                               *
* Insert source deck here *
*                               *
*****
//LKED.SYSLMOD DD DSN=SA11.VTAMLIB(Modetab Name),DISP=SHR
/*
```

MVS USSTAB Installation JCL

```
//USSTAB JOB 'USSTAB ASSEMBLY',CLASS=C
//STEP1 EXEC ASMFCL
//ASM.SYSPUNCH DD DUMMY
//ASM.SYSIN DD *
*****
*                               *
* Insert source deck here *
*                               *
*****
//LKED.SYSLMOD DD DSN=SA11.VTAMLIB(Name),DISP=SHR
/*
```

Note: See Chapter 4 for examples of MODE and USS tables.

ACF/NCP

NCP Definition Example

```
./      ADD    NAME=N139F3Q,LEVEL=00,SOURCE=0,LIST=ALL
./      NUMBER NEW1=10,INCR=10
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
*      SOURCE FOR ACF/NCP
*
*      See ACF/NCP examples in Chapter 7.
*      (N13F3Q)
*
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
./      ENDUP
/*
```

Note: The ACF/VTAM Installation and the ACF/NCP/VS Installation manuals are required. The host macro definition must be consistent with the ACF/VTAM start parameters.

The source from the ACF/NCP generation should be used here after removing the assembler control cards. When testing the NCP the first time, all the PUs should contain the ACF/VTAM parameter 'ISTATUS=INACTIVE'. After loading the NCP they should be varied 'active' individually. Later, when the PU and its resources are operational, this member can be updated to change the ISTATUS to 'ACTIVE'.

NCP Load Sample

```
//LOAD JOB MSGLEVEL=(1,1)
// * THIS ROUTINE LOADS THE LOCAL 37X5
// EXEC PGM=IFLOADRN
//SYSPRINT DD SYSOUT=A
//SYSUT1 DD DSN=RISC.NCPLOAD,DISP=SHR
// * NEXT STATEMENT SPECIFIES INITIAL TEST LIBRARY
//SYSUT3 DD DSN=SYS1.LINKLIB,DISP=SHR
//CUNAME DD UNIT=OFF
//SYSIN DD *
LOAD LOADMOD=N139F3Q,3705=CUNAME,DIAG=Y8
/*
//
```

Note: Options for this routine are covered in ACF/NCP/VS Utilities, SC30-3168. This routine may be used to check the NCP with initial test, prior to loading the 37X5 using VIAM. If the NCP is defined with 'Automatic Network Shutdown', the NCP will go back to the load state after the 'TIMEOUT' value specified in the NCP 'HOST' parameter has expired.

Dump and Print ACF/NCP Sample

```
//DUMP JOB MSGLEVEL=(1,1)
// * THIS ROUTINE DUMPS AND PRINTS THE LOCAL 37X5 STORAGE CONTENTS
// EXEC PGM=IFLREAD
//SYSPRINT DD SYSOUT=A
// * SYSUT1 SPECIFIES THE 37X5 ADDRESS
//SYSUT1 DD UNIT=OFF
// * SYSUT2 SPECIFIES THE TEMPORARY DASD WORK DATA SET
//SYSUT2 DD UNIT=SYSDA,DISP=NEW, X
// SPACE=(512,(513),,CONTIG),DCB=(DSORG=DA)
//SYSIN DD *
DUMP FROMADDR=200,BUF=Y,FORMAT=Y
/*
//
```

Note: Options for this procedure are covered in ACF/NCP/VS Utilities, SC30-3168.

ACF JCL

MVS Example of Start Procedure for ACF/VTAM

```
//PROCUP JOB 123,'UPDATE PROCS',REGION=100K
// EXEC PGM=IEBUPDTE,PARM=NEW
//SYSPRINT DD SYSOUT=A
//SYSUT2 DD DSNAME=RISC.PROCLIB,DISP=SHR
//SYSIN DD DATA
./ ADD NAME=NET,LEVEL=01,SOURCE=0,LIST=ALL
./ NUMBER NEW1=10,INCR=10
/** *****
/** NAME: NET
/**
/** USAGE: STARTS THE VTAM TELEPROCESSING SUBSYSTEM
/**
/** SYNTAX: S NET,DMPCLS=W,SA=11,PERF=10
/**
/** NOTE: IT IS ASSUMED THAT THE VTAM DATASETS 'SA&SA.VTAMLIB',
/** 'SA&SA.VTAMOBJ', 'SA&SA.NCPDUMP' HAVE BEEN PREVIOUSLY
/** ALLOCATED
/** PARAMETERS:
/** DMPCLS= SYSOUT CLASS NAME FOR THE SYSABEND DD
/** STATEMENT (DEFAULT IS W WHICH IS A DUMMY
/** OUTPUT CLASS)
/** SA&SA= QUALIFIER FOR EACH SYSTEM, DEFAULT IS 11
/** &PERF= PERFORM, DEFAULT IS 10
/**
/** *****
//NET PROC SA=11,PERF=10,SER=WTLIB3
/** THIS PROC FIRST SCRATCHES SA11.VTAMOBJ
/** THEN IT ALLOCATES THE SA11.VTAMOBJ DATA SET.
//DELETE EXEC PGM=IEFBR14
//PACK DD DSN=SA&SA.VTAMOBJ,DISP=(OLD,DELETE,DELETE),
// VOL=SER=&SER,UNIT=SYSDA
//ALLOCATE EXEC PGM=IEFBR14
//NEWDS DD DSN=SA&SA.VTAMOBJ,UNIT=SYSDA,VOL=SER=&SER,
// SPACE=(CYL,(5,1,14)),CONTIG),
// DCB=(LRECL=3152,RECFM=F,BLKSIZE=3152),
// DISP=(,KEEP)
//NET EXEC PGM=ISTINM01,REGION=4500K,TIME=1440,DPRTY=(15,13),
// PERFORM=&PERF
//VTAMLIB DD DSN=SA&SA.VTAMLIB,DISP=SHR
// DD DSN=SYS1.VTAMLIB,DISP=SHR
//VTAMLST DD DSN=RISC.VTAMLST,DISP=SHR
//VTAMOBJ DD DSN=SA&SA.VTAMOBJ,DISP=SHR,
// VOL=SER=&SER,UNIT=SYSDA
//NCPDUMP DD DSN=SA&SA.NCPDUMP,DISP=SHR
//NCPDMOSS DD DSN=SA&SA.NCPDMOSS,DISP=SHR
//NCPDCSP DD DSN=SA&SA.NCPDCSP,DISP=SHR
//LOAD DD DSN=RISC.NCPLOAD,DISP=SHR
//NCPLOAD DD DSN=RISC.NCPLOAD,DISP=SHR
//SYSABEND DD DUMMY
./ ENDUP
/*
```

MVS JCL for GTF Procedure and Parameters for ACF/VTAM Trace to Disk

```
//ADDGTF JOB MSGLEVEL=1,REGION=100K,CLASS=A
// EXEC PGM=IEBUPDTE,PARM=NEW
//SYSPRINT DD SYSOUT=A
//SYSUT2 DD DSNAME=SYS1.PROCLIB,DISP=SHR
//SYSIN DD DATA
./ ADD NAME=GTFDISK,LIST=ALL
./ NUMBER NEW1=10,INCR=10
//GTF PROC MEM=GTFTP,PREF=RISC
//*****
//** STARTS GTF. **
//** KEYWORD DEFAULT **
//** ----- **
//** MEM (GTF MEMBER OF PARMLIB) GTFTP **
//** PREF (TRACE DATASET PREFIX) SYS1 **
//** **
//*****
//IEFPROC EXEC PGM=AHLGTF,TIME=1440,REGION=2280K,DPRTY=(15,15),
// PARM='MODE=EXT,DEBUG=NO,TIME=YES'
//IEFRDR DD DSNAME=&PREF..TRACE,DISP=OLD
//SYSPRINT DD SYSOUT=0
//SYSLIB DD DSNAME=SYS1.PARMLIB(&MEM),DISP=SHR
./ ENDUP
/*
```

```
//PARMDEF JOB MSGLEVEL=1,REGION=100K
// EXEC PGM=IEBUPDTE,PARM=NEW
//SYSPRINT DD SYSOUT=A
//SYSUT2 DD DSNAME=SYS1.PARMLIB,DISP=SHR
//SYSIN DD DATA
./ ADD NAME=GTFTP,LIST=ALL
TRACE=RNIO,USR
./ ENDUP
/*
```

Note: Information on this service aid may be found in the OS/VS2 Services Aid SRL GC28-0674.

MVS JCL for Printing ACF/VTAM Trace Records

```
//ADDPRT   JOB MSGLEVEL=1,REGION=100K,CLASS=A
//         EXEC   PGM=IEBUPDTE,PARAM=NEW
//SYSPRINT DD   SYSOUT=A
//SYSUT2  DD   DSNAME=SYS1.PROCLIB,DISP=SHR
//SYSIN   DD   DATA
./ ADD     NAME=GTFDPRT,LIST=ALL
./ NUMBER NEW1=10,INCR=10
//AMDPRDMP PROC OUT=A,NAME=RMT99,PRM=GTFP2,PREF=RISC
//GTFDPRT EXEC PGM=AMDPRDMP,REGION=2000K,PERFORM=4
//PRINTER DD   SYSOUT=&OUT,DCB=(RECFM=FBA,LRECL=121,BLKSIZE=121),      X
//         DEST=&NAME
//SYSPRINT DD   SYSOUT=&OUT,DCB=(RECFM=F,LRECL=120,BLKSIZE=120),      X
//         DEST=&NAME
//TRACE   DD   DSN=&PREF..TRACE,DISP=(OLD)
//SYSIN   DD   DSN=&PREF..PARMLIB(&PRM),DISP=SHR
./ ENDUP
/*

//PARMUP   JOB MSGLEVEL=1,REGION=100K
//         EXEC   PGM=IEBUPDTE,PARAM=NEW
//SYSPRINT DD   SYSOUT=A
//SYSUT2  DD   DSNAME=RISC.PARMLIB,DISP=SHR
//SYSIN   DD   DATA.
./ ADD     NAME=GTFP2,LIST=ALL
./ EDIT   DDNAME=TRACE,USR=ALL,RNIO,SIO,IO
./ ENDUP
/*
```

Note: Information on this service aid may be found in the OS/VS2 Services Aid SRL GC28-0674.

MVS starting and Stopping ACF/VTAM Trace Sample JCL (Alternate)

```
//PROCPU JOB 'UPDATE PROCLIB',MSGLEVEL=1,REGION=100K
//      EXEC  PGM=IEBUPDTE,PARM=MOD
//SYSPRINT DD SYSOUT=A
//SYSUT1 DD  DSNNAME=SYS1.PROCLIB,DISP=SHR
//SYSUT2 DD  DSNNAME=SYS1.PROCLIB,DISP=SHR
//SYSIN  DD  DATA
./ ADD NAME=GOTRACE,LIST=ALL
//TRACE PROC
//* OPERATOR COMMANDS TO SET UP FOR ACF/VTAM TRACE
// MODIFY NET,TRACE,TYPE=IO,ID=ncp-name
// MODIFY NET,TRACE,TYPE=BUF,ID=ncp-name
// MODIFY NET,TRACE,TYPE=IO,ID=cluster-name
// MODIFY NET,TRACE,TYPE=BUF,ID=cluster-name
// MODIFY NET,TRACE,TYPE=IO,ID=appl-name
// MODIFY NET,TRACE,TYPE=BUF,ID=appl-name
// MODIFY NET,TRACE,TYPE=IO,ID=LU-name
// MODIFY NET,TRACE,TYPE=BUF,ID=LU-name
// VARY NET,ACT,ID=cluster-name
//STEP1 EXEC PGM=IEFBR14
//* OPERATOR COMMANDS TO SET UP FOR ACF/VTAM TRACE

./ ADD NAME=NOTRACE,LIST=ALL
//NOTRACE PROC
//* OPERATOR COMMANDS TO STOP ACF/VTAM TRACE
// MODIFY NET,NOTRACE,TYPE=IO,ID=ncp-name
// MODIFY NET,NOTRACE,TYPE=BUF,ID=ncp-name
// MODIFY NET,NOTRACE,TYPE=IO,ID=cluster-name
// MODIFY NET,NOTRACE,TYPE=BUF,ID=cluster-name
// MODIFY NET,NOTRACE,TYPE=IO,ID=appl-name
// MODIFY NET,NOTRACE,TYPE=BUF,ID=appl-name
// MODIFY NET,NOTRACE,TYPE=IO,ID=LU-name
// MODIFY NET,NOTRACE,TYPE=BUF,ID=LU-name
//* OPERATOR COMMANDS TO STOP ACF/VTAM TRACE
//STEP1 EXEC PGM=IEFBR14
./ ENDUP
/*
```

Note: These procedures allow an operator to execute a list of operator commands. It reduces operator error and insures that trace is started or stopped on specified nodes. The same operation can be accomplished by entering the commands through the card reader.

The preferred way to initiate traces is through the use of NCCF command lists.

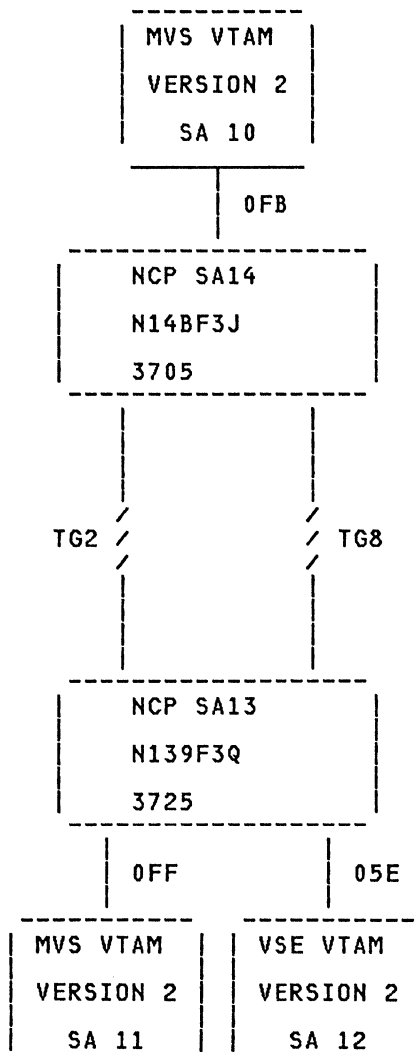
CHAPTER 7: ACF/NCP INSTALLATION

The ACF/NCPs definitions illustrates various mixes of device types. All supported line disciplines are illustrated and are based on actual experience and industry recommendations. The DOS/VSE and the MVS JCL for the assembly of these ACF/NCPs are contained in the appropriate section of this guide.

REFERENCES

ACF/NCP/VS Version 2 Installation
 ACF/NCP/VS Version 2 Utilities

SC30-3167
 SC30-3168



NETWORK OVERVIEW. Diagram of a section of the network used for testing jobs described in this guide. In this manual only the SA 10,11,12,13 and 14 were tested.

NCP FOR 3725

NOTE: This is a partial NCP, not all the definitions are shown.
The 3725 NCP options are listed in:
ZZ10-5006 3725 Installation Primer.

PRINT NOGEN

```
*****
*   NEWNAME = N139F3Q           *   *
*****                           N   *   SUBAREA = 13
*                               *   P   *
* ACF/NCP V2   FOR 3725       *   A   *
*   (09/07/83)               *   *
*****
* CHANNEL ATTACHED TO SUBAREA 11 AND SUBAREA 12
*
* LINK   ATTACHED TO SUBAREAS 4,5,14 AND 24
*   (BUT IS IT POSSIBLE CONNECT LINES 38 AND 39 TO ANY
*   OTHER SUBAREA)
*
* 1 FDX LINK 36 TO SUBAREA 14 ( 3705 CONTROLLER)
* 1 FDX LINK 37 TO SUBAREA 05 ( 3705 CONTROLLER)
* 1 FDX LINK 38 TO SUBAREA xx
* 1 FDX LINK 39 TO SUBAREA xx
* 1 HDX LINK 64 TO SUBAREA 04 ( 3705 CONTROLLER)
* 1 HDX LINK 68 TO SUBAREA 05 ( 3705 CONTROLLER)
* 1 HDX LINK 80 TO SUBAREA 24 ( 3705 CONTROLLER)
* 1 HDX LINK 84 TO SUBAREA 14 ( 3705 CONTROLLER)
*
*****
* M/D ADDR      M=MODEM D=DIRECT ADDR= CHAMBORD LINE ADDRESS
* L/PROT.      NEWSYNCH NRZI POLLED USE
*
*BSC LINES ONLY:
* D 01      BSC , HDX, NO      N/A   YES   3271BSC
* M 02      BSC , HDX, YES     N/A   YES   3271BSC
*
*SDLC LINES ONLY:
* D 04      SDLC, FDX, NO     YES   N/A   SYS/34
* D 05      SDLC, FDX, NO     YES   YES   3276SNA
* D 06      SDLC, FDX, NO     YES   N/A   8100SNA
* M 10      SDLC, FDX, YES    YES   YES   3276SNA
* M 11      SDLC, FDX, YES    YES   N/A   SYS/34
* M 12      SDLC, FDX, YES    YES   N/A   6670SNA, 4700SNA
* D 36      SDLC, FDX, NO     YES   N/A   INN TO NCP SA14 TG 2
* D 37      SDLC, FDX, NO     YES   N/A   INN TO NCP SA05 TG 2
* D 38      SDLC, FDX, NO     YES   N/A   INN TO ANY SA   TG 2
* D 39      SDLC, FDX, NO     YES   N/A   INN TO ANY SA   TG 2
* D 64      SDLC, HDX, NO     YES   N/A   INN TO NCP SA04 TG 8
* M 68      SDLC, HDX, NO     YES   N/A   INN TO NCP SA05 TG 8
* D 80      SDLC, HDX, NO     YES   N/A   INN TO NCP SA24 TG 8
* M 84      SDLC, HDX, NO     YES   N/A   INN TO NCP SA14 TG 8
*
* LINE 36 IS 19.2 KB SPEED
* LINE 37 IS 19.2 KB SPEED
* LINE 38 IS 19.2 KB SPEED
* LINE 64 IS 56.0 KB SPEED
*****
```

 * PCCU'S MACRO SPECIFICATIONS *

PCCU Specifications for ACF/VTAM DOS/VSE

 * PCCU SPECIFICATIONS - ACF/VTAM DOS/VSE *
 *

 VTAMV212 PCCU CUADDR=05E, VM IS 690 X
 AUTODMP=NO, ONLY ONE AUTODMP-HOST IF TWINTAIL X
 AUTOIPL=NO, ONLY ONE AUTOIPL-HOST IF TWINTAIL X
 AUTOSYN=YES, USE THE ALREADY LOADED NCP IF OK X
 BACKUP=YES, RESOURCE TAKEOVER PERMITTED X
 CHANCON=COND, CONDITIONAL CONTACT REQ. TO NCP SENT X
 DUMPDS=SYS005, DUMP DATASET X
 INITEST=YES, FORCE TEST WHEN LOADED X
 NCPLUB=SYS010, NCP PHASE X
 MAXDATA=3758, X
 OWNER=M12, X
 VFYLM=YES, X
 SUBAREA=12 HOSTSA VTAM VER 2 VSE X

NOTE: MAXDATA must be less than MAXBFRU X UNITSZ - BFRPAD. It must be
 be greater than the largest PIU passed through the NCP.
 MAXDATA must also be less than TRANSFR X BFRS.

PCCU Specifications for ACF/VTAM MVS

 * PCCU SPECIFICATIONS - ACF/VTAM MVS *
 *

 VTAMV211 PCCU CUADDR=0FF, VM IS 69F X
 AUTODMP=YES, ONLY ONE AUTODMP-HOST IF TWINTAIL X
 AUTOIPL=YES, ONLY ONE AUTOIPL-HOST IF TWINTAIL X
 AUTOSYN=YES, USE THE ALREADY LOADED NCP IF OK X
 BACKUP=YES, RESOURCE TAKEOVER PERMITTED X
 CDUMPDS=NCPDCSP, SCANNER DUMP DATASET X
 CHANCON=COND, CONDITIONAL CONTACT REQ. TO NCP SENT X
 DUMPDS=NCPDUMP, DUMP DATASET X
 INITEST=YES, FORCE TEST WHEN LOADED X
 MDUMPDS=NCPDMOSS, MOSS DUMP DATASET X
 MAXDATA=3758, X
 OWNER=M11, X
 VFYLM=YES, VERIFY LMOD WHEN LOADING X
 SUBAREA=11 HOSTSA VTAM VER 2 MVS X

NOTE: MAXDATA must be less than MAXBFRU x UNITSZ - BFRPAD. It must be
 be greater than the largest PIU passed through the NCP.
 MAXDATA must also be less than TRANSFR x BFRS.
 This is the max PIU into the host.

BUILD Specifications

```
*****
*          BUILD MACRO SPECIFICATIONS          *
*****
NCPBUILD BUILD ABEND=YES,                ABEND FACILITY INCLUDED                X
                BFRS=(128),              NCP BUFFER SIZE,EP FREE BUFFER        X
                BRANCH=500,              BRANCH TRACE ENTRIES                   V3X
                CA=(TYPE5-TPS,TYPE5),    CHANNEL ADAPTER TYPE                   V3X
                CATRACE=(YES,100),       CHANNEL ADAPTER TRACE                   V3X
                CSMHDR=27F5C711C3F0405C40C8C4D9405C, 3270 CRITSIT HEADERX
                CSMHDRC=40E3C5E7E3405C5C, 3270 CRITST HEADER EXTRA TEXT X
                CSMSGC=C3D9C9E3E2C9E35A40E385819440F040, CRITSIT MESH X
                CSMSGC=6040C1D5E240828587A4954B, CRITST MESH EXTRA TEXT X
                CWALL=20,                 MIN. BUFFERS BEFORE SLOWDOWN           X
                DELAY=(0.2),              CA ATT.-DELAY FOR V3 BUILD             X
                DSABLTO=11.5,             IBM 386X REQUIRE 11.5 AS MINIMUM       X
                ENABLTO=11.5,             IBM 386X REQUIRE 11.5 AS MINIMUM       X
                JOBCARD=YES,              SINGLE JOB FOR STAGE2                   X
                LOADLIB=LOAD,              LIB FOR LOAD MODULE                     X
                LTRACE=4,                  SIT FOR 4 LINES                         X
                MAXSSCP=8,                 8 SSCP'S CAN ACTIVATE THIS NCP         X
                MAXSUBA=63,                ALLOW FOR UP TO 63 SUBAREAS             X
                MEMSIZE=768,               3725 STORAGE SIZE IS 768K BYTES       X
                MODEL=3725,                X
                NCPCA=(ACTIVE,INACTIVE),  V3X
                NEWNAME=N139F3Q,          NAME OF THIS LOAD MODULE               V3X
                NPA=YES,                   NPAX
                NUMHSAS=6,                 6 HOSTS MAY COMMUNICATE CONCURRENTLY X
                OBJQUAL=13,                QUALIFIER FOR STAGE 2 DECK NAMES       X
                OUTPUT=(NCP8ASM,NCPPOST,NCP8LKED), STG2 PROCEDURES                 X
                RESOEXT=64,                 ALLOW 64 NAU'S TO BE REUSED            X
                SUBAREA=13,                 SUBAREA ADDRESS = 13                   X
                TIMEOUT=(120),             ANS BEGINS AFTER, FOR V3 IN BUILD      X
                TRACE=(YES,64),            64 ADDRESS-TRACE ENTRIES              X
                TYPGEN=NCP,                 NCP ONLY                                X
                TYP SYS=OS,                 OS GENERATION                           X
                XITB=NO,                    NO ITB SUPPORTED BSC UNITS             X
                UNIT=SYSDA
```

BUILD Specification Exceptions for DOS/VSE

```
*****
*
*          BUILD MACRO SPECIFICATIONS FOR DOS/VSE          *
*
*****
NCPBUILD BUILD ABEND=YES,          DOS USED FOR STAGE 2          X
                TYPYSYS=DOS
```

NOTE: BUILD macro specifications not required by VSE are:

```
LOADLIB
OBJLIB
LESIZE
MACLIB
OUTPUT
QUALIFY
TIME
QUALIFY
UNIT
USERLIB
UT1/UT2/UT3
UNIT
```

SYSCNTRL Options

```
*****
*          SYSCNTRL MACRO SPECIFICATIONS          *
*****
NCPSYSC SYSCNTRL OPTIONS=(BHSASSC,ENDCALL,MODE,RCNTRL,RCOND,RECMD,RIMM,X
                NAKLIM,SESSION,SSPAUSE,XMTLMT,STORDSP,DLRID,RDEVQ)
*****
```

HOST MACRO specifications

```
*****
M12      HOST  INBFRS=10,          NCP BUFFERS ALLOCATION          X
                MAXBFRU=29,        UP TO 29 VTAM BUFFERS SHIPPED      X
                UNITSZ=132,        VTAM IO BUFFERS SIZE          X
                BFRPAD=0,          BUFFER PAD (MANDATORY FOR ACF)    X
                SUBAREA=(12)       VSE CHANNEL ATTACHED HOSTSA
*
M11      HOST  INBFRS=10,          NCP BUFFERS ALLOCATION          X
                MAXBFRU=25,        UP TO 25 VTAM BUFFERS SHIPPED      X
                UNITSZ=152,        VTAM IO BUFFERS SIZE          X
                BFRPAD=0,          BUFFER PAD (MANDATORY FOR ACF)    X
                SUBAREA=(11)       MVS CHANNEL ATTACHED HOSTSA
```

Note: In SA12 the UNITSZ parameter must be equal to LFBUF in ATCSTR00.

Note: In SA11 the UNITSZ parameter must be equal to IOBUF in ATCSTR00.

PUDRPOOL Specification for Dynamic Reconfiguration

```
*****
*           (MUST BE SPECIFIED BEFORE FIRST GROUP MACRO)           *
*****
*
DRPOOLPU PUDRPOOL NUMBER=8,          CAN ADD 8 PUS                X
          MAXLU=64                    A MAX OF 64 LUS PER PU
```

LUDRPOOL Specification for Dynamic Reconfiguration

```
*****
*           (MUST BE SPECIFIED BEFORE FIRST GROUP MACRO)           *
*****
** This macro is REQUIRED for switched LUs. One NUMTYP1 must
** be reserved for NTO. So if you had 10 switched and NTO then
** you would code NUMTYP1=11.
*
DRPOOLLU LUDRPOOL NUMTYP1=10,        RESERVE 10 LUS ON PU.T1 PUS    X
          NUMTYP2=90                 RESERVE 90 LUS ON PU.T2 PUS
*****
```

PATH TABLES

```
*****
*
*           PATH SPECIFICATIONS                                     *
*           SOME DEFINITION WILL USE TG'S THAT NOT CURRENTLY ARE   *
*           INSTALLED. THE DEFINITIONS COULD BE REMOVED, BUT ARE    *
*           LEFT IN FOR LATER REFERENCE                             *
*
*****
PATH  DESTSA=(6,7,8,10,14),                                           X
      ER0=(14,8),ER1=(14,8),ER2=(14,2),ER3=(14,8),                 X
      ER4=(24,8),ER5=(14,8),ER6=(4,8)
PATH  DESTSA=11,                                                       X
      ER0=(11,1),ER1=(11,1),ER2=(11,1),ER3=(14,8),                 X
      ER4=(11,1),ER5=(24,8)
PATH  DESTSA=12,                                                       X
      ER0=(12,1),ER1=(12,1),ER2=(12,1),ER3=(12,1),                 X
      ER4=(12,1),ER5=(12,1),ER6=(12,1),ER7=(12,1)
```

NOTE: Only the subareas 10, 11, 12, 13 and 14 were tested.

SDLCST STATEMENTS FOR CONFIGURABLE LINK STATIONS

```
*****
*          SDLCST STATEMENTS FOR CONFIGURABLE LINK STATIONS          *
*          (STATEMENT MUST PRECEDE GROUP STATEMENTS)                 *
*****
SDL13PRI SDLCST MODE=PRI,                                           *
          GROUP=G13XPRI,      GROUP FOR PRIMARY LINKS              *
          RETRIES=(7,3,5),    RETRY ON IDLE DETECT TIME OUT        *
          IRETRY=YES,          *
          MAXOUT=7,           *
          PASSLIM=254         *
*
SDL13SEC SDLCST MODE=SEC,                                           *
          GROUP=G13XSEC,      GROUP FOR SECONDARY LINKS            *
          RETRIES=(7),        *
          MAXOUT=7,           *
          PASSLIM=254         *
*
*****
```

BSC GROUP SPECIFICATION FOR BSC 3270'S LEASED LINE

```
*****
*          GROUP SPECIFICATION FOR REMOTE BSC 3270'S LEASED LINE      *
*****
G13B1    GROUP DIAL=NO,      NON-SWITCHED LINES                    X
          CUTOFF=1,         REQUIRED FOR BSC3270                    NPAX
          NPACOLL=YES,      *
          PU=YES,           FOR CROSS DOMAIN                       X
          TYPE=NCP,         *
          TRANSFR=3,        REQUIRED FOR BSC3270                    X
          LNCTL=BSC         BSC LINE CONTROL                       X
*****
```

BSC LINE MACRO SPECIFICATIONS FOR BSC 3270

```
*****
* LINE MACRO SPECIFICATION BSC LINK 001 DIRECT *
*****
L13001 LINE ADDRESS=(01,HALF), LINE ADDRESS ON 3725 X
ATTACH=DIRECT, DIRECT X
OWNER=M11, X
NPACOLL=YES, NPAX X
CLOCKNG=EXT, REQUIRED FOR DIRECT X
CODE=EBCDIC, EBCDIC 3270'S ONLY X
DUPLEX=FULL, X
ETRATIO=30, DEFAULT X
NEGPOLP=.2, X
PAUSE=1, 1 SECOND PAUSE BETWEEN SERVICE CYCLES X
POLIMIT=(1,QUEUE), PERFORMANCE RECOMMENDATION X
POLLED=YES, POLLED DEVICE X
RETRIES=(7,4,5), 7 RETRIES PLUS 4 SEC FOR 5 TIMES X
SERVLIM=9, NUMBER OF ENTRIES FOR SERVICE X
SERVPRI=OLD, PRIORITY TO OLD SESSIONS X
SESSION=4, ALLOW UP TO 3 SESSIONS X
SPEED=4800, NPA USE ONLY X
SRT=(8000,64), X
FEATUR2=(MODEL2), (V) VTAM X
ISTATUS=INACTIVE, (V) VTAM X
MODETAB=MT3270, (V) VTAM X
USSTAB=US3270, (V) VTAM X
VPACING=0 (V) VTAM X
*****
```

BSC SERVICE MACRO SPECIFICATIONS REMOTE 3270

```
*****
* SERVICE MACRO SPECIFICATIONS REMOTE 3270 *
*****
SERVICE ORDER=(B13001A,T13001A1,T13001A2,T13001A3)
*****
```

3270 CLUSTER AND TERMINAL MACRO FOR 3270 BSC

```

*****
*          CLUSTER AND TERMINAL MACRO SPECIFICATIONS FOR 3270 BSC
*****
B13001A CLUSTER CRITSIT=YES,          SEND CLOSE-DOWN MESSAGE          X
          CUTYPE=3271,                3271'S DEFINED                    X
          NPACOLL=YES,                  NPAX
          GPOLL=40407F7F,              GENERAL POLL ADDRESS              X
          XMITLIM=1,                   PERFORMANCE RECOMMENDATION       X
          ISTATUS=ACTIVE                (V) VTAM

*
T13001A1 TERMINAL TERM=3277,          3277 DISPLAY STATION              X
          NPACOLL=YES,                  NPAX
          ADDR=60604040,               SELECTION ADDRESS                 X
          POLL=40404040,               POLL ADDRESS                       X
          ISTATUS=ACTIVE                (V) VTAM
T13001A2 TERMINAL TERM=3277,          3277 DISPLAY STATION              X
          NPACOLL=YES,                  NPAX
          ADDR=6060C1C1,               SELECTION ADDRESS                 X
          POLL=4040C1C1,               POLL ADDRESS                       X
          ISTATUS=ACTIVE                (V) VTAM
T13001A3 TERMINAL TERM=3277,          3277 DISPLAY STATION              X
          NPACOLL=YES,                  NPAX
          ADDR=6060C2C2,               SELECTION ADDRESS                 X
          POLL=4040C2C2,               POLL ADDRESS                       X
          ISTATUS=ACTIVE                (V) VTAM

*****

```

BSC LINE MACRO SPECIFICATIONS FOR BSC 3271

```

*****
*          LINE MACRO SPECIFICATION      BSC LINK 002 MODEM      *
*****
L13002  LINE ADDRESS=(02,HALF),        LINE ADDRESS ON 3725              X
          ATTACH=MODEM,                 MODEM ATTACH                      X
          OWNER=M11,                     NPAX
          NPACOLL=YES,                   EXTERNAL MODEM CLOCKING          X
          CLOCKNG=EXT,                   EBCDIC 3270'S ONLY               X
          CODE=EBCDIC,                   3271'S DEFINED                   X
          CUTYPE=3271,                   DEFAULT                            X
          DUPLEX=FULL,                   ETRATIO=30,                       X
          NEGPOLP=.2,                    NEGPOLP=.2,                       X
          NEWSYNC=YES,                   PAUSE=1, 1 SECOND PAUSE BETWEEN SERVICE CYCLES X
          PAUSE=1,                        POLIMIT=(1,QUEUE),                X
          POLLED=YES,                     POLLED DEVICE                      X
          RETRIES=(7,4,5),                7 RETRIES PLUS 4 SEC FOR 5 TIMES X
          SERVLIM=9,                      NUMBER OF ENTRIES FOR SERVICE    X
          SERVPRI=OLD,                    PRIORITY TO OLD SESSIONS         X
          SESSION=4,                     ALLOW UP TO 3 SESSIONS           X
          SPEED=4800,                     LINE SPEED                         X
          SRT=(8000,64),                  (V) VTAM                          X
          FEATUR2=(MODEL2),               (V) VTAM                          X
          ISTATUS=INACTIVE,               (V) VTAM                          X
          MODETAB=MT3270,                 (V) VTAM                          X
          USSTAB=US3270,                  (V) VTAM                          X
          VPACING=0,                      (V) VTAM                          X

*****

```

BSC SERVICE MACRO SPECIFICATIONS REMOTE 3270

```
*****
* SERVICE MACRO SPECIFICATIONS REMOTE 3270 *
*****
SERVICE ORDER=(B13002A,T13002A1,T13002A2,T13002A3)
*****
```

3270 CLUSTER AND TERMINAL MACRO FOR 3270 BSC

```
*****
* CLUSTER AND TERMINAL MACRO SPECIFICATIONS FOR 3270 BSC *
*****
B13002A CLUSTER CRITSIT=YES, SEND CLOSE-DOWN MESSAGE X
          CUTYPE=3271, 3271'S DEFINED X
          NPACOLL=YES, NPAX
          GPOLL=40407F7F, GENERAL POLL ADDRESS X
          XMITLIM=1, X
          ISTATUS=ACTIVE (V) VTAM
*
T13002A1 TERMINAL TERM=3277, 3277 DISPLAY STATION X
          NPACOLL=YES, NPAX
          ADDR=60604040, SELECTION ADDRESS X
          POLL=40404040, POLL ADDRESS X
          ISTATUS=ACTIVE (V) VTAM
T13002A2 TERMINAL TERM=3277, 3277 DISPLAY STATION X
          NPACOLL=YES, NPAX
          ADDR=6060C1C1, SELECTION ADDRESS X
          POLL=4040C1C1, POLL ADDRESS X
          ISTATUS=ACTIVE (V) VTAM
T13002A3 TERMINAL TERM=3277, 3277 DISPLAY STATION X
          NPACOLL=YES, NPAX
          ADDR=6060C2C2, SELECTION ADDRESS X
          POLL=4040C2C2, POLL ADDRESS X
          ISTATUS=ACTIVE (V) VTAM
*****
```

NPA VIRTUAL GROUP FOR NPA

```
*****
* VIRTUAL GROUP FOR NPA *
*****
G13NPA GROUP LNCTL=SDLC,VIRTUAL=YES,NPARSC=YES NPA
L13NPA LINE OWNER=M11
P13NPA PU
T13NPA LU MAXCOLL=50 NPA
*****
```

SDLC GROUP MACRO SPECIFICATIONS FOR SDLC LINES

```
*
*****
*          GROUP MACRO SPECIFICATIONS FOR SDLC LINES          *
*****
G13S1  GROUP LNCTL=SDLC,          SYNCHRONOUS DATA LINK      X
        DUPLEX=FULL,             REQUEST TO SEND ALWAYS UP   X
        NRZI=YES,
        REPLYTO=1,               1 SECOND FOR SDLC           X
        RETRIES=(7,4,5),        7 RETRY PER SECOND FOR 5 TIMES X
        TYPE=NCP                NCP ONLY
*****
```

SDLC LINE SPECIFICATION SDLC LINK 004

```
*****
*          LINE MACRO SPECIFICATION          SDLC LINK 004  DIRECT  *
*****
L13004  LINE ADDRESS=(4,FULL),    FULL DUPLEX              V3X
        ATTACH=DIRECT,           DIRECT
        OWNER=M11,
        ANS=CONTINUE,           DON'T BREAK CROSS DOMAIN SESSIONS X
        CLOCKNG=EXT,            REQUIRED FOR DIRECT                X
        ISTATUS=ACTIVE,
        DUPLEX=(FULL),          REQUEST TO SEND ALWAYS UP        X
        ETRATIO=30,             DEFAULT                            X
        MAXPU=9,                ALLOW NO MORE THAN 9 PUS ON LINE X
        SERVLIM=10,
        SPEED=9600,             NPA USE ONLY                      X
        SRT=(8000,64)
*****
```

SDLC SERVICE SPECIFICATION FOR SDLC (LINE 004)

```
*****
*          SERVICE MACRO SPECIFICATION FOR SDLC (LINE 004)      *
*****
        SERVICE ORDER=(P13004A),
        MAXLIST=9
*****
```


S/34 PU/LU SPECIFICATION FOR S/34

```

*****
*      PU/LU SPECIFICATIONS FOR SYSTEM/34 - SRJE OR 3270 EMULATION
*      ONLY 1 CAN BE ACTIVE AT A TIME/LINE --- SYS/34 RESTRICTION
*****
P13004A  PU      ADDR=C1,          CLUSTER ADDRESS = 01          X
                MAXDATA=265,      MAXIMUM AMOUNT OF DATA      X
                MAXOUT=7,          MAX SDLC FRAMES BEFORE RESPONSE X
                PACING=0,          PACING SET BY BIND IMAGE      X
                PASSLIM=8,          X
                PUTYPE=2,          X
                RETRIES=(,4,5),    7 RETRY PER SECOND FOR 5 TIMES X
                DISCNT=(NO),      (V) VTAM                     X
                ISTATUS=ACTIVE,   (V) VTAM                     X
                SSCPFM=USSSCS,   (V) VTAM                     X
                USSTAB=USGS,     (V) VTAM                     X
                VPACING=0        (V) VTAM                     X
T13004A1  LU      LOCADDR=1,      USED WITH SRJE OR 1ST SNUF LU  X
                MODETAB=MODEGS,  (V) VTAM                     X
                DLOGMOD=TSYS34,  (V) VTAM                     X
                ISTATUS=ACTIVE   (V) VTAM                     X
T13004A2  LU      LOCADDR=2,      USED WITH S/34 SNUF - LU2     X
                MODETAB=MODEGS,  (V) VTAM                     X
                DLOGMOD=TSYS34,  (V) VTAM                     X
                ISTATUS=ACTIVE   (V) VTAM                     X
T13004A3  LU      LOCADDR=3,      USED WITH S/34 SNUF - LU3     X
                MODETAB=MODEGS,  (V) VTAM                     X
                DLOGMOD=TSYS34,  (V) VTAM                     X
                ISTATUS=ACTIVE   (V) VTAM                     X
T13004A4  LU      LOCADDR=4,      USED WITH S/34 SNUF - LU4     X
                MODETAB=MODEGS,  (V) VTAM                     X
                DLOGMOD=TSYS34,  (V) VTAM                     X
                ISTATUS=ACTIVE   (V) VTAM                     X
*****

```

SDLC LINE SPECIFICATION SDLC LINK 005

```

*****
*      LINE MACRO SPECIFICATION      SDLC LINK 005      DIRECT      *
*****
L13005  LINE  ADDRESS=(5,FULL),    FULL DUPLEX                      V3X
                ATTACH=DIRECT,    DIRECT ATTACH                    X
                OWNER=M11,        X
                ANS=CONTINUE,     DON'T BREAK CROSS DOMAIN SESSIONS X
                CLOCKNG=EXT,      REQUIRED FOR DIRECT                X
                ISTATUS=ACTIVE,   X
                DUPLEX=(FULL),    REQUEST TO SEND ALWAYS UP        X
                ETRATIO=30,      DEFAULT                            X
                MAXPU=9,         ALLOW NO MORE THAN 9 PUS ON LINE  X
                SERVLIM=10,      X
                SPEED=9600,      NPA USE ONLY                      X
                SRT=(8000,64)
*****

```

SDLC SERVICE SPECIFICATION FOR SDLC (LINE 005)

```
*****
* SERVICE MACRO SPECIFICATION FOR SDLC (LINE 005) DIRECT *
*****
SERVICE ORDER=(P13005A),
MAXLIST=9
*****
```

3276 PU/LU SPECIFICATIONS FOR PU3276

```
*****
* PU/LU SPECIFICATIONS FOR PU3276
*****
P13005A PU ADDR=C3, CLUSTER ADDRESS = 03 X
MAXDATA=265, MAXIMUM AMOUNT OF DATA X
MAXLU=64, MAXIMUM LUS ON THIS PU X
MAXOUT=7, MAX SDLC FRAMES BEFORE RESPONSE X
PACING=0, PACING SET BY BIND IMAGE X
PASSLIM=8, X
PUDR=YES, X
PUTYPE=2, X
RETRIES=(,4,5), 7 RETRY PER SECOND FOR 5 TIMES X
DISCNT=(NO), (V) VTAM X
ISTATUS=ACTIVE, (V) VTAM X
SSCPFM=USSCS, (V) VTAM X
USSTAB=US3276, (V) VTAM X
VPACING=0 (V) VTAM X
T13005A1 LU LOCADDR=2, FIRST LU MUST BE LOCADDR=2 X
MODETAB=MT32763,DLOGMOD=T3278M3, X
ISTATUS=ACTIVE (V) VTAM X
```

NOTE: In the control unit the duplex switch must always be setup in half duplex.

```
*****
```

SDLC LINE SPECIFICATION SDLC LINK 006

```
*****
* LINE MACRO SPECIFICATION SDLC LINK 006 DIRECT *
*****
L13006 LINE ADDRESS=(6,FULL), FULL DUPLEX X
ATTACH=DIRECT, DIRECT ATTACH X
OWNER=M11, X
ANS=CONTINUE, DON'T BREAK CROSS DOMAIN SESSIONS X
CLOCKNG=EXT, REQUIRED FOR DIRECT X
NEWSYNC=NO, X
ISTATUS=INACTIVE, X
DUPLEX=(FULL), REQUEST TO SEND ALWAYS UP X
ETRATIO=30, DEFAULT X
LPDATS=NO, X
MAXPU=9, ALLOW NO MORE THAN 9 PUS ON LINE X
SERVLIM=10, X
SPEED=9600, NPA USE ONLY X
SRT=(8000,64) X
*****
```

SDLC SERVICE SPECIFICATION FOR SDLC (LINE 6)

```
*****
* SERVICE MACRO SPECIFICATION FOR SDLC (LINE 6) *
*****
SERVICE ORDER=(P13006A,
                P13006B),
                MAXLIST=9
*****
```

8100 PU MACRO SPECIFICATION FOR 8100

```
*
*****
* PU/LU MACRO SPECIFICATION FOR 8100 *
*****
P13006A PU ADDR=C1, CLUSTER ADDRESS ='A' (EBCDIC) X
          ANS=CONT, DO'NT BREAK THE X-DOMAIN SESSIONS X
          MAXLU=64, MAXIMUM LUS ON THIS PU X
          MAXOUT=7, MAX SDLC FRAMES BEFORE RESPONSE X
          MAXDATA=265, MAX PIU SIZE INC TH & RH X
          PACING=4, SECONDARY RECEIVES X
          PASSLIM=1, MAX PIU'S SENT PER SERVICE ENTRY X
          PUDR=YES, X
          PUTYPE=2, PHYSICAL UNIT TYPE ONE X
          RETRIES=(,4,5), 7 RETRY PER SECOND FOR 5 TIMES X
          VPACING=6, PRIMARY SENDS X
          ISTATUS=ACTIVE, INITIAL STATUS X
          MODETAB=MODEDPPX
*****
```

8100 LOGICAL UNIT SPECIFICATIONS FOR 8100

```
*
*****
N061HDT1 LU LOCADDR=1, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N061HDT2 LU LOCADDR=2, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N061 LU LOCADDR=3, ISTATUS=ACTIVE, MODETAB=MODEDPPX
D061 LU LOCADDR=4, ISTATUS=ACTIVE, MODETAB=MODEDPPX
G061 LU LOCADDR=5, ISTATUS=ACTIVE, MODETAB=MODEDPPX
H061 LU LOCADDR=6, ISTATUS=ACTIVE, MODETAB=MODEDPPX
I061 LU LOCADDR=7, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N061RJE1 LU LOCADDR=8, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N061RJE2 LU LOCADDR=9, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N061RJE3 LU LOCADDR=10, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N061DSC1 LU LOCADDR=11, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N061DSC2 LU LOCADDR=12, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N061DSC3 LU LOCADDR=13, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N061DSC4 LU LOCADDR=14, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N061DSC5 LU LOCADDR=15, ISTATUS=ACTIVE, MODETAB=MODEDPPX
L161 LU LOCADDR=16, ISTATUS=ACTIVE, MODETAB=MODEDPPX
L261 LU LOCADDR=17, ISTATUS=ACTIVE, MODETAB=MODEDPPX
L361 LU LOCADDR=18, ISTATUS=ACTIVE, MODETAB=MODEDPPX
L461 LU LOCADDR=19, ISTATUS=ACTIVE, MODETAB=MODEDPPX
L561 LU LOCADDR=20, ISTATUS=ACTIVE, MODETAB=MODEDPPX
F161 LU LOCADDR=21, ISTATUS=ACTIVE, MODETAB=MODEDPPX
F261 LU LOCADDR=22, ISTATUS=ACTIVE, MODETAB=MODEDPPX
F361 LU LOCADDR=23, ISTATUS=ACTIVE, MODETAB=MODEDPPX
F461 LU LOCADDR=24, ISTATUS=ACTIVE, MODETAB=MODEDPPX
F561 LU LOCADDR=25, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N061T1 LU LOCADDR=26, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N061T2 LU LOCADDR=27, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N061T3 LU LOCADDR=28, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N061T4 LU LOCADDR=29, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N061T5 LU LOCADDR=30, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N061N1 LU LOCADDR=31, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N061N2 LU LOCADDR=32, ISTATUS=ACTIVE, MODETAB=MODEDPPX
*
*****
```

8100 PU MACRO SPECIFICATION FOR 8100

```
*
*****
* PHYSICAL UNIT SPECIFICATIONS FOR 8100 DPCX, SUBSYSTEM ID 'AB' *
*
*****
P13006B PU ADDR=C2, MUST MATCH SYSIMOD (X'C2' = DEC 194) X
          ANS=CONTINUE, X
          MAXLU=64, X
          MAXDATA=265, X
          MAXOUT=7, X
          PASSLIM=7, X
          VPACING=0, VPACING SET IN MODE TABLE (PSNDPAC). X
          PACING=0, PACING SET IN MODE TABLE (SRCVPAC). X
          ISTATUS=ACTIVE, X
          MODETAB=MTDPCX
*
*****
```

8100 LOGICAL UNIT SPECIFICATIONS FOR 8100

```

*
*****
*          LOGICAL UNIT SPECIFICATIONS FOR 8100 DPCX, SUBSYSTEM ID 'AB' *
*****
*
INTX6201 LU      LOCADDR=1,DLOGMOD=T1BDPCX                SSS
*
TEXT6210 LU      LOCADDR=10,DLOGMOD=T1BDPCX              SYSINFOREF
TEXT6211 LU      LOCADDR=11,DLOGMOD=T1BDPCX              DSX
TEXT6212 LU      LOCADDR=12,DLOGMOD=PC000000             HCF
TEXT6213 LU      LOCADDR=13,DLOGMOD=PC000000             HCF
TEXT6214 LU      LOCADDR=14,DLOGMOD=PC000000             HCF
*
TEXT6218 LU      LOCADDR=18                              RJE
TEXT6219 LU      LOCADDR=19                              RJE
*
TEXT6223 LU      LOCADDR=23,DLOGMOD=PC020107            DISOSS
TEXT6224 LU      LOCADDR=24,DLOGMOD=PC020107            DISOSS
TEXT6225 LU      LOCADDR=25,DLOGMOD=PC020107            DISOSS
TEXT6226 LU      LOCADDR=26,DLOGMOD=PC020107            DISOSS
TEXT6227 LU      LOCADDR=27,DLOGMOD=PC020107            DISOSS
TEXT6228 LU      LOCADDR=28,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
TEXT6229 LU      LOCADDR=29,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
TEXT6230 LU      LOCADDR=30,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
TEXT6231 LU      LOCADDR=31,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
TEXT6232 LU      LOCADDR=32,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
TEXT6233 LU      LOCADDR=33,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
TEXT6234 LU      LOCADDR=34,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
*
**** DSC FOR LINK- OR LOOP-ATTACHED DEVICES.
*
TEXT6250 LU      LOCADDR=50,MODETAB=MTCXPCA
TEXT6251 LU      LOCADDR=51,MODETAB=MTCXPCA
TEXT6252 LU      LOCADDR=52,MODETAB=MTCXPCA
TEXT6253 LU      LOCADDR=53,MODETAB=MTCXPCA
TEXT6254 LU      LOCADDR=54,MODETAB=MTCXPCA
TEXT6255 LU      LOCADDR=55,MODETAB=MTCXPCA,DLOGMOD=PC020107 LU1 3287
TEXT6256 LU      LOCADDR=56,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXT6257 LU      LOCADDR=57,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXT6258 LU      LOCADDR=58,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXT6259 LU      LOCADDR=59,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXT6260 LU      LOCADDR=60,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXT6261 LU      LOCADDR=61,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXT6262 LU      LOCADDR=62,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXT6263 LU      LOCADDR=63,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXT6264 LU      LOCADDR=64,MODETAB=MTCXPCA,ISTATUS=INACTIVE
*
*****

```

SDLC LINE SPECIFICATION SDLC LINK 010

```
*****
* LINE MACRO SPECIFICATION SDLC LINK 010 MODEM *
*****
L13010 LINE ADDRESS=(10,FULL), FULL DUPLEX X
        ATTACH=MODEM, MODEM ATTACH X
        OWNER=M11, X
        ANS=CONTINUE, DON'T BREAK CROSS DOMAIN SESSIONS X
        CLOCKNG=EXT, REQUIRED FOR DIRECT X
        ISTATUS=ACTIVE, X
        DUPLEX=(FULL), REQUEST TO SEND ALWAYS UP X
        ETRATIO=30, DEFAULT X
        NEWSYNC=YES, X
        MAXPU=9, ALLOW NO MORE THAN 9 PUS ON LINE X
        SERVLIM=10, X
        SPEED=9600, NPA USE ONLY X
        SRT=(8000,64) X
*****
```

SDLC SERVICE SPECIFICATION FOR SDLC (LINE 010)

```
*****
* SERVICE MACRO SPECIFICATION FOR SDLC (LINE 010) *
*****
        SERVICE ORDER=(P13010C), X
        MAXLIST=9
*****
```

3276 PU/LU SPECIFICATIONS FOR PU3276

```
*****
* PU/LU SPECIFICATIONS FOR PU3276
*****
P13010C PU ADDR=C3, CLUSTER ADDRESS = 03 X
        MAXDATA=265, MAXIMUM AMOUNT OF DATA X
        MAXLU=64, MAXIMUM LUS ON THIS PU X
        MAXOUT=7, MAX SDLC FRAMES BEFORE RESPONSE X
        PACING=0, PACING SET BY BIND IMAGE X
        PASSLIM=8, X
        PUDR=YES, X
        PUTYPE=2, X
        RETRIES=(,4,5), 7 RETRY PER SECOND FOR 5 TIMES X
        DISCNT=(NO), (V) VTAM X
        ISTATUS=ACTIVE, (V) VTAM X
        SSCPFM=USSSCS, (V) VTAM X
        USSTAB=US3276, (V) VTAM X
        VPACING=0, (V) VTAM X
T13010C1 LU LOCADDR=2, FIRST LU MUST BE LOCADDR=2 X
        MODETAB=MT32763,DLOGMOD=T3278M3, X
        ISTATUS=ACTIVE (V) VTAM X
```

NOTE: In the control unit the duplex switch must always be setup in half duplex.

SDLC LINE SPECIFICATION SDLC LINK 011

```
*****
*   LINE MACRO SPECIFICATION      SDLC LINK 011  DIRECT   *
* FOR SIMULTANEOUS RJE & 3270 EMULATION REQUIRES 2 LINES ON SYS/34 *
*                                     I.E. FANOUT OR MULTIDROP *
*****
L13011  LINE  ADDRESS=(11,FULL),    FULL DUPLEX           X
          ATTACH=MODEM,             MODEM              X
          OWNER=M11,                  X                  X
          ANS=CONTINUE,              DON'T BREAK CROSS DOMAIN SESSIONS X
          CLOCKNG=EXT,              REQUIRED FOR DIRECT  X
          ISTATUS=ACTIVE,           X                  X
          DUPLEX=(FULL),            REQUEST TO SEND ALWAYS UP        X
          ETRATIO=30,              DEFAULT              X
          MAXPU=9,                 ALLOW NO MORE THAN 9 PUS ON LINE X
          NEWSYNC=YES,              X                  X
          SERVLIM=10,              X                  X
          SPEED=9600,             NPA USE ONLY        X
          SRT=(8000,64)
*****
```

SDLC SERVICE SPECIFICATION FOR SDLC (LINE 011)

```
*****
*   SERVICE MACRO SPECIFICATION FOR SDLC (LINE 011) *
*****
          SERVICE ORDER=(P13011A), X
          MAXLIST=9
*****
```

S/34 PU/LU SPECIFICATION FOR S/34

```

*****
*      PU/LU SPECIFICATIONS FOR SYSTEM/34 - SRJE OR 3270 EMULATION
*      ONLY 1 CAN BE ACTIVE AT A TIME/LINE --- SYS/34 RESTRICTION
*****
P13011A PU      ADDR=C1,          CLUSTER ADDRESS = 01          X
                MAXDATA=265,      MAXIMUM AMOUNT OF DATA      X
                MAXOUT=7,         MAX SDLC FRAMES BEFORE RESPONSE X
                PACING=0,         PACING SET BY BIND IMAGE      X
                PASSLIM=8,
                PUTYPE=2,
                RETRIES=(,4,5),    7 RETRY PER SECOND FOR 5 TIMES X
                DISCNT=(NO),      (V) VTAM                      X
                ISTATUS=ACTIVE,   (V) VTAM                      X
                SSCPFM=USSSCS,    (V) VTAM                      X
                USSTAB=USGS,      (V) VTAM                      X
                VPACING=0,        (V) VTAM                      X
T13011A1 LU    LOCADDR=1,        USED WITH SRJE OR 1ST SNUF LU  X
                MODETAB=MODEGS,   (V) VTAM                      X
                DLOGMOD=TSYS34,   (V) VTAM                      X
                ISTATUS=ACTIVE   (V) VTAM                      X
T13011A2 LU    LOCADDR=2,        USED WITH S/34 SNUF - LU2     X
                MODETAB=MODEGS,   (V) VTAM                      X
                DLOGMOD=TSYS34,   (V) VTAM                      X
                ISTATUS=ACTIVE   (V) VTAM                      X
T13011A3 LU    LOCADDR=3,        USED WITH S/34 SNUF - LU3     X
                MODETAB=MODEGS,   (V) VTAM                      X
                DLOGMOD=TSYS34,   (V) VTAM                      X
                ISTATUS=ACTIVE   (V) VTAM                      X
T13011A4 LU    LOCADDR=4,        USED WITH S/34 SNUF - LU4     X
                MODETAB=MODEGS,   (V) VTAM                      X
                DLOGMOD=TSYS34,   (V) VTAM                      X
                ISTATUS=ACTIVE   (V) VTAM                      X
*****

```

SDLC LINE SPECIFICATION SDLC LINK 012

```

*****
*      LINE MACRO SPECIFICATION      SDLC LINK 012 MODEM      *
*****
L13012  LINE  ADDRESS=(012,FULL),  FULL DUPLEX          X
                ATTACH=MODEM,      MODEM ATTACH          X
                OWNER=M11,
                ANS=CONTINUE,       DON'T BREAK CROSS DOMAIN SESSIONS X
                CLOCKNG=EXT,
                ISTATUS=INACTIVE,   REQUEST TO SEND ALWAYS UP        X
                DUPLEX=(FULL),      DEFAULT                  X
                ETRATIO=30,
                LPDATS=YES,         ALLOW NO MORE THAN 9 PUS ON LINE X
                MAXPU=9,
                NEWSYNC=YES,
                SERVLIM=10,
                SRT=(8000,64),
                SPEED=4800          LINE SPEED IS 4800 BPS      X
*****

```


SDLC SERVICE SPECIFICATION FOR SDLC (LINE 12)

```
*****
* SERVICE MACRO SPECIFICATION FOR SDLC (LINE 012) *
*****
SERVICE ORDER=(P13012D,
                P13012G),
                MAXLIST=9
*****
```

6670 CLUSTER Macro Specification

```
*****
* PU/LU MACRO SPECIFICATION FOR 6670 *
*****
P13012D PU ADDR=C4,
           MAXDATA=261,
           MAXLU=2,
           MAXOUT=2,
           PASSLIM=1,
           PUDR=NO, ALLOW LUS TO BE ADDED TO THIS PU
           PUTYPE=1,
           RETRIES=(,4,5), 7 RETRY PER SECOND FOR 5 TIMES
           ISTATUS=INACTIVE (V) VTAM
T13012D1 LU LOCADDR=0,
            PACING=1,
            ISTATUS=INACTIVE (V) VTAM
*****
```

4700 PU MACRO SPECIFICATION FOR 4700

```
*****
* PU/LU MACRO SPECIFICATION FOR 4700 *
*****
P13012G PU ADDR=C7,
           MAXDATA=265,
           MAXLU=64,
           MAXOUT=7,
           PACING=0,
           PASSLIM=3,
           PUDR=YES,
           PUTYPE=2,
           ISTATUS=INACTIVE, (V) VTAM
           VPACING=0
FA13012G LU LOCADDR=1,
            ISTATUS=ACTIVE (V) VTAM
T13012G2 LU LOCADDR=2,
            ISTATUS=INACTIVE (V) VTAM
T13012G3 LU LOCADDR=3,
            ISTATUS=INACTIVE (V) VTAM
T13012G4 LU LOCADDR=4,
            ISTATUS=INACTIVE (V) VTAM
*****
```

SDLC GROUP SPECIFICATIONS FOR SDLC LOCAL TO LOCAL LINKS

```
*****
*          GROUP MACRO SPECIFICATIONS FOR SDLC LOCAL/LOCAL LINKS          *
*****
G13XSEC  GROUP MODE=SEC, LNCTL=SDLC, ACTIVT0=120
*
G13XPRI  GROUP MODE=PRI, LNCTL=SDLC, REPLYT0=1
*
G13XLLL  GROUP LNCTL=SDLC, REPLYT0=1
*
*****
```

SDLC SPECIFICATION FOR LINE 36 LOCAL TO LOCAL LINK

```
*****
*          LINE MACRO SPECIFICATION FOR LINE 36  INN LINK                *
*****
L13036  LINE  ADDRESS=(36, FULL),  LINE ADDRESS                          X
          ATTACH=DIRECT,          INN LINK                              X
          CLOCKNG=EXT,            REQUIRED FOR DIRECT                    X
          DUPLEX=FULL,           MODEM STRAPPING IS FULL                X
          IPL=YES,               ALLOW LOADING OVER THIS LINK          X
          MONLINK=YES,          MONITOR LINK FOR ACTPU                  *
          NRZI=YES,                                                     *
          NEWSYNC=NO,                                                   *
          PAUSE=0.1,                                                    *
          SDLCST=(SDL13PRI,SDL13SEC),                                    *
          SERVLIM=254,                                                  *
          SPEED=19200,          NPA USE ONLY                            *
          SRT=(,64),                                                    *
          ISTATUS=ACTIVE      INITIAL STATUS                            *
*****
```

3705 PU SPECIFICATION FOR THE ADJACENT 3705 SA14

```
*****
*          PU MACRO SPECIFICATION FOR THE ADJACENT 3705  SA14          *
*****
P13036  PU      MAXOUT=7,          MAX PIU'S SENT BEFORE RESP REQ      X
          PUTYPE=4,              PHYSICAL UNIT TYPE LOCAL 3705        X
          ISTATUS=ACTIVE,        INITIAL STATUS                        X
          TGN=2,                TRANSMISSION GROUP 2                  *
          ANS=CONTINUE           DON'T BREAK THE X-DOMAIN SESSIONS    *
*****
```

SDLC SPECIFICATION FOR LINE 37 LOCAL TO LOCAL LINK

```
*****
* LINE MACRO SPECIFICATION FOR LINE 037 INN LINK *
*****
L13037 LINE ADDRESS=(37,FULL), LINE ADDRESS X
      ATTACH=MODEM, MODEM ATTACHED X
      CLOCKNG=EXT, MODEM PROVIDES CLOCKING X
      DUPLEX=FULL, MODEM STRAPPING IS FULL X
      MONLINK=YES, MONITOR LINK FOR ACTPU *
      NEWSYNC=NO, *
      NRZI=YES, *
      PAUSE=0.1, *
      SDLCST=(SDL13PRI,SDL13SEC), *
      SERVLIM=254, *
      SRT=(,64), *
      SPEED=19200, NPA USE ONLY X
      ISTATUS=INACTIVE INITIAL STATUS X
*****
```

3705 PU SPECIFICATION FOR THE ADJACENT 3705 SA05

```
*****
* PU MACRO SPECIFICATION FOR THE ADJACENT 3705 SA05 *
*****
P13037 PU MAXOUT=7, MAX PIU'S SENT BEFORE RESP REQ X
      ANS=CONTINUE, DON'T BREAK THE X-DOMAIN SESSIONS *
      PUTYPE=4, PHYSICAL UNIT TYPE LOCAL 3705 X
      TGN=2, TRANSMISSION GROUP 2 *
      ISTATUS=INACTIVE INITIAL STATUS
*****
```

SDLC SPECIFICATION FOR LINE 38 LOCAL TO LOCAL LINK

```
*****
* LINE MACRO SPECIFICATION FOR LINE 038 INN LINK *
*****
L13038 LINE ADDRESS=(38,FULL), LINE ADDRESS X
      ATTACH=MODEM, MODEM ATTACHED X
      CLOCKNG=EXT, MODEM PROVIDES CLOCKING X
      DUPLEX=FULL, MODEM STRAPPING IS FULL X
      MONLINK=YES, MONITOR LINK FOR ACTPU *
      NEWSYNC=NO, *
      NRZI=YES, *
      PAUSE=0.1, *
      SDLCST=(SDL13PRI,SDL13SEC), *
      SERVLIM=254, *
      SRT=(,64), *
      SPEED=19200, NPA USE ONLY X
      ISTATUS=INACTIVE INITIAL STATUS X
*****
```

3705 PU SPECIFICATION FOR an ADJACENT 3705 (ANY)

```
*****
* PU MACRO SPECIFICATION FOR an ADJACENT 3705 (ANY) *
*****
P13038 PU MAXOUT=7, MAX PIU'S SENT BEFORE RESP REQ X
        ANS=CONTINUE, DON'T BREAK THE X-DOMAIN SESSIONS *
        PUTYPE=4, PHYSICAL UNIT TYPE LOCAL 3705 X
        TGN=2, TRANSMISSION GROUP 2 *
        ISTATUS=INACTIVE INITIAL STATUS
*****
```

SDLC SPECIFICATION FOR LINE 39 LOCAL TO LOCAL LINK

```
*****
* LINE MACRO SPECIFICATION FOR LINE 039 INN LINK *
*****
L13039 LINE ADDRESS=(39,FULL), LINE ADDRESS X
        ATTACH=MODEM, MODEM ATTACHED X
        CLOCKNG=EXT, MODEM PROVIDES CLOCKING X
        DUPLEX=FULL, MODEM STRAPPING IS FULL X
        MONLINK=YES, MONITOR LINK FOR ACTPU *
        NEWSYNQ=NO, *
        NRZI=YES, *
        PAUSE=0.1, *
        SDLCST=(SDL13PRI,SDL13SEC), *
        SERVLIM=254, *
        SRT=(,64), *
        SPEED=19200, NPA USE ONLY X
        ISTATUS=ACTIVE INITIAL STATUS
*****
```

3705 PU SPECIFICATION FOR an ADJACENT 3705 (ANY)

```
*****
* PU MACRO SPECIFICATION FOR an ADJACENT 3705 (ANY) *
*****
P13039 PU MAXOUT=7, MAX PIU'S SENT BEFORE RESP REQ X
        ANS=CONTINUE, DON'T BREAK THE X-DOMAIN SESSIONS *
        PUTYPE=4, PHYSICAL UNIT TYPE LOCAL 3705 X
        TGN=2, TRANSMISSION GROUP 2 *
        ISTATUS=ACTIVE INITIAL STATUS
*****
```

SDLC SPECIFICATION FOR LINE 64 LOCAL TO LOCAL LINK

```
*****
*      LINE MACRO SPECIFICATION FOR LINE 64  INN LINK TO 1U ON SA04 *
*****
L13064  LINE  ADDRESS=(64,HALF),  LINE ADDRESS          X
          ATTACH=MODEM,          INN LINK           X
          CLOCKNG=EXT,           REQUIRED FOR DIRECT  X
          DUPLEX=FULL,           MODEM STRAPPING IS FULL X
          IPL=YES,               ALLOW LOADING OVER THIS LINK X
          MONLINK=YES,          MONITOR LINK FOR ACTPU *
          NRZI=YES,              *
          PAUSE=0.1,             *
          SDLCST=(SDL13PRI,SDL13SEC), *
          SERVLIM=254,           *
          SPEED=56000,           NPA USE ONLY,ICC MAXIMUM *
          SRT=(,64),             *
          ISTATUS=ACTIVE         INITIAL STATUS *
*****
```

3705 PU SPECIFICATION FOR THE ADJACENT 3705 SA04

```
*****
*      PU MACRO SPECIFICATION FOR THE ADJACENT 3705  SA04 *
*****
P13064  PU      MAXOUT=7,          MAX PIU'S SENT BEFORE RESP REQ X
          PUTYPE=4,              PHYSICAL UNIT TYPE LOCAL 3705 X
          ISTATUS=ACTIVE,        INITIAL STATUS *
          TGN=8,                 TRANSMISSION GROUP 8 *
          ANS=CONTINUE           DON'T BREAK THE X-DOMAIN SESSIONS *
*****
```

SDLC SPECIFICATION FOR LINE 68 LOCAL TO LOCAL LINK

```
*****
*      LINE MACRO SPECIFICATION FOR LINE 68  INN LINK TO 1Z ON SA05 *
*****
L13068  LINE  ADDRESS=(68,HALF),  LINE ADDRESS          X
          ATTACH=MODEM,          INN LINK           X
          CLOCKNG=EXT,           REQUIRED FOR DIRECT  X
          DUPLEX=FULL,           MODEM STRAPPING IS FULL X
          MONLINK=YES,          MONITOR LINK FOR ACTPU *
          NRZI=YES,              *
          PAUSE=0.1,             *
          SDLCST=(SDL13PRI,SDL13SEC), *
          SERVLIM=254,           *
          SPEED=57600,           NPA USE ONLY *
          SRT=(,64),             *
          ISTATUS=INACTIVE       INITIAL STATUS *
*****
```

3705 PU SPECIFICATION FOR THE ADJACENT 3705 SA05

```
*****
*      PU MACRO SPECIFICATION FOR THE ADJACENT 3705 SA05      *
*****
P13068  PU      MAXOUT=7,          MAX PIU'S SENT BEFORE RESP REQ      X
          PUTYPE=4,          PHYSICAL UNIT TYPE LOCAL 3705          X
          ISTATUS=INACTIVE,  INITIAL STATUS                          X
          TGN=8,          TRANSMISSION GROUP 8                      *
          ANS=CONTINUE      DON'T BREAK THE X-DOMAIN SESSIONS
*****
```

SDLC SPECIFICATION FOR LINE 80 LOCAL TO LOCAL LINK

```
*****
*      LINE MACRO SPECIFICATION FOR LINE 80  INN LINK TO 1S ON SA24 *
*****
L13080  LINE  ADDRESS=(80,HALF),  LINE ADDRESS                          X
          ATTACH=DIRECT,          INN LINK                            X
          CLOCKNG=EXT,          REQUIRED FOR DIRECT                    X
          DUPLEX=FULL,          MODEM STRAPPING IS FULL              X
          IPL=YES,          ALLOW LOADING OVER THIS LINK            X
          MONLINK=YES,          MONITOR LINK FOR ACTPU              *
          NRZI=YES,          *                                       *
          PAUSE=0.1,          *                                       *
          SDLCST=(SDL13PRI,SDL13SEC),  *                               *
          SERVLIM=254,          *                                       *
          SPEED=56000,          NPA USE ONLY,ICC MAXIMUM            *
          SRT=(,64),          *                                       *
          ISTATUS=ACTIVE  INITIAL STATUS
*****
```

3705 PU SPECIFICATION FOR THE ADJACENT 3705 SA24

```
*****
*      PU MACRO SPECIFICATION FOR THE ADJACENT 3705 SA24      *
*****
P13080  PU      MAXOUT=7,          MAX PIU'S SENT BEFORE RESP REQ      X
          PUTYPE=4,          PHYSICAL UNIT TYPE LOCAL 3705          X
          ISTATUS=ACTIVE,  INITIAL STATUS                          X
          TGN=8,          TRANSMISSION GROUP 8                      *
          ANS=CONTINUE      DON'T BREAK THE X-DOMAIN SESSIONS
*****
```

SDLC SPECIFICATION FOR LINE 84 LOCAL TO LOCAL LINK

```
*****
* LINE MACRO SPECIFICATION FOR LINE 84 INN LINK TO 1W ON SA14 *
*****
L13084 LINE ADDRESS=(84,HALF), LINE ADDRESS X
ATTACH=DIR3725, INN LINK 1W CLOCKS X
CLOCKNG=EXT, REQUIRED FOR DIRECT X
DUPLEX=FULL, MODEM STRAPPING IS FULL X
MONLINK=YES, MONITOR LINK FOR ACTPU *
NRZI=YES, *
PAUSE=0.1, *
SDLCST=(SDL13PRI,SDL13SEC), *
SERVLIM=254, *
SPEED=57600, NPA USE ONLY *
SRT=(,64), *
ISTATUS=INACTIVE INITIAL STATUS *
*****
```

3705 PU SPECIFICATION FOR THE ADJACENT 3705 SA14

```
*****
* PU MACRO SPECIFICATION FOR THE ADJACENT 3705 SA14 *
*****
P13084 PU MAXOUT=7, MAX PIU'S SENT BEFORE RESP REQ X
PUTYPE=4, PHYSICAL UNIT TYPE LOCAL 3705 X
ISTATUS=INACTIVE, INITIAL STATUS X
TGN=8, TRANSMISSION GROUP 8 *
ANS=CONTINUE DON'T BREAK THE X-DOMAIN SESSIONS
*****
* END OF LINE SPECIFICATIONS *
*****
* GEN-END DELIMITER *
*****
GENEND
END
```

NCP FOR 3705

NOTE: This a partial NCP, not all the definitions are show.

```
PRINT NOGEN
*****
* NEWNAME = N14BF3J * * *
*****
* * N *
* * P * SUBAREA = 14
* ACF/NCP V2 FOR 3705 * A *
* (03/10/83) * *
*****
* CHANNEL ATTACHED TO SUBAREA 10
*
* LINK ATTACHED TO SUBAREA 13
* (BUT IS IT POSSIBLE CONNECT LINE 2C/2E TO ANY
* OTHER SUBAREA)
*
* 1 LINK 24 ATTACHED TO SUBAREA 13 (3725 CONTROLLER)
* 1 LINK 2C/2E ATTACHED TO SUBAREA xx
* 1 LINK A8/A9 ATTACHED TO SUBAREA 13 (3725 CONTROLLER)
*
*****
* LINE ADDR NEWSYNCH NRZI POLLED USE
* 20 SDLC, FDX, YES YES YES 8100, 8100, 3276,
* 6670, 4700
* 21 SDLC, HDX, NO YES YES SWITCHED
* 22 SDLC, HDX, NO N.A. YES 8100, 6580(DISPLAYWRITER),
* 8815(SCANMASTER), 3275,
* 3276, 8815(SCANMASTER)
* 23 BSC FDX, NO YES YES 3270BSC, 3270BSC
* 24 SDLC, FDX, NO YES NO LLL TO NCP SA13 TG 8
* 2C/2E SDLC, FDX, NO YES YES LLL TO NCP SAxx TG 8
* 43 SDLC, HDX, NO YES YES SWITCHED
* A0 SDLC, HDX, YES YES YES 3276, 3274
* A7 SDLC, FDX, YES YES YES 8100, 3600, 6670(COPIER)
* A8/A9 SDLC, HDX, NO YES YES LLL TO NCP SA13 TG 2
*****
```

PCCU Specifications for ACF/VTAM

```
*****
* PCCU'S MACRO SPECIFICATIONS *
*****
S10 PCCU CUADDR=0BF, SUBCHANNEL ADDRESS X
AUTODMP=YES, AUTOMATIC DUMP IF NCP FAILS X
AUTOIPL=YES, AUTOMATIC RELOAD IF NCP FAILS X
AUTOSYN=YES, USE THE ALREADY LOADED NCP IF OK X
BACKUP=YES, RESOURCE TAKEOVER PERMITTED X
DUMPDS=NCPDUMP, DUMP DATASET X
INITEST=YES, FORCE TEST WHEN LOADED X
MAXDATA=3758, X
OWNER=M10, X
SUBAREA=10 CHANNEL ATTACHED HOST'S SUBAREA X
*****
```


BUILD Specifications

```
*****
*          BUILD MACRO SPECIFICATIONS          *
*****
NCPBUILD BUILD ABEND=YES,          ABEND FACILITY INCLUDED          X
                BFRS=128,          NCP BUFFER SIZE                      X
                CA=(TYPE4,TYPE4-1), INSTALLED CHANNEL ADAPTER TYPE      X
                CSMHDR=27F5C711C3F0405C40C8C4D9405C, 3270 CRITSIT HEADERX
                CSMHDRC=40E3C5E7E3405C5C, 3270 CRITST HEADER EXTRA TEXT X
                CSMSG=C3D9C9E3E2C9E35A40E385819440F040, CRITSIT MESG    X
                CSMSGC=6040C1D5E240828587A4954B, CRITST MESG EXTRA TEXT X
                CWALL=20,          MIN. BUFFERS BEFORE SLOWDOWN          X
                DELAY=(0.2,0.2),   CA ATT.-DELAY FOR REL 3 IN BUILD      X
                DSABLT0=11.5,      X
                ENABLT0=11.5,      IBM 386X REQUIRE 6.5 AS MINIMUM      X
                JOBCARD=MULTI,      X
                LESIZE=320,         LIB FOR LOAD MODULE                  X
                LOADLIB=NCPLOAD,    LIB FOR LOAD MODULE                  X
                LTRACE=4,          TRACE FOR 4 LINE CONCURRENTLY      X
                MAXSSCP=8,         8 SSCP'S CAN ACTIVATE THIS NCP        X
                MAXSUBA=63,        ALLOW FOR UP TO 127 SUBAREAS      X
                MEMSIZE=512,       3705 STORAGE SIZE IS 512K BYTES      X
                MODEL=3705-2,      CYCLTIME=900 FOR 3705 J (NPA REQD.) X
                NCPCA=(ACTIVE,ACTIVE), X
                NEWNAME=N14BF3J,    NAME OF THIS LOAD MODULE          X
                NPA=YES,           NPAX
                NUMHSAS=8,         8 HOSTS MAY COMMUNICATE CONCURRENTLYX
                OBJQUAL=14,        QUALIFIER FOR STAGE 2 DECK NAMES  X
                OUTPUT=(NCP73ASL,NCPPOST,NCP73LKL), X
                PARTIAL=YES,       X
                PRGEN=(NOGEN,NOGEN), X
                QUALIFY=NCP730,    DATA SET QUALIFIER              X
                RESOEXT=64,        ALLOW 64 NAU'S TO BE REUSED        X
                SUBAREA=14,        SUBAREA ADDRESS = 14             X
                TIMEOUT=(120,120), ANS BEGINS AFTER, FOR REL 3 IN BUILDX
                TRACE=(YES,64),    64 ADDRESS-TRACE ENTRIES        X
                TYPGEN=NCP,        NCP ONLY                          X
                TYPYSYS=OS,        OS GENERATION                      X
                UNIT=SYSDA
```

SYSCNTRL Options

NOTE: If the NCP does not contain Start/Stop or BSC devices, SYSCNTRL options will not be included in the ACF/NCP/VS generation even if included in the source deck.

```
*****
*          SYSCNTRL MACRO SPECIFICATIONS      *
*****
NCPSYSC SYSCNTRL OPTIONS=(BHSASSC,ENDCALL,MODE,RCNTRL,RCOND,RECMD,RIMM,X
                NAKLIM,SESSION,SSPAUSE,XMTLMT,STORDSP,DLRID,RDEVQ)
*****
```

HOST MACRO SPECIFICATIONS

```
*****
*          HOST MACRO SPECIFICATIONS          *
*****
M10  HOST  INBFRS=10,          NCP BUFFERS ALLOCATION          X
          MAXBFRU=25,         UP TO 25 VTAM BUFFERS SHIPPED      X
          UNITSZ=152,         VTAM IO BUFFERS SIZE           X
          BFRPAD=0,          BUFFER PAD (MANDATORY FOR ACF)    X
          SUBAREA=(10)       CHANNEL ATTACHED HOSTSA
*****

*****
*          CSB MACRO SPECIFICATIONS          *
*****
NCPCSB1 CSB  SPEED=(150,600,1200,2400),  BUS MACH CLOCKS      X
          MOD=0,              SCANNER ADDRESS 020 TO 04F      X
          TYPE=TYPE3          TYPE 3 COMM SCANNER
*
NCPCSB2 CSB  SPEED=(300,600,1200),  BUS MACH CLOCKS      X
          MOD=1,              SCANNER ADDRESS 0A0 TO 0FF      X
          TYPE=TYPE2          TYPE 2 COMM SCANNER
*****
```

PUDRPOOL Specification for Dynamic Reconfiguration

```
*****
*          DYNAMIC RECONFIGURATION POOL SPACE          *
*****
DRPOOLPU PUDRPOOL NUMBER=30,          CAN ADD 30 PUS          X
          MAXLU=64              A MAX OF 64 LUS PER PU
*
DRPOOLLU LUDRPOOL NUMTYP1=10,          RESERVE 10 LUS ON PU.T1 PUS      X
          NUMTYP2=90            RESERVE 90 LUS ON PU.T2 PUS
*****
```

PATH TABLES

```
*****
*          PATH SPECIFICATIONS          *
*          SOME DEFINITION WILL USE TG'S THAT NOT CURRENTLY ARE          *
*          INSTALLED. THE DEFINITIONS COULD BE REMOVED, BUT ARE          *
*          LEFT IN FOR LATER REFERENCE          *
*****
NCP14  PATH  DESTSA=10,          X
          ER0=(10,1),ER1=(10,1),ER2=(10,1),ER3=(10,1),          X
          ER4=(10,1),ER5=(10,1),ER6=(10,1)
          PATH  DESTSA=11,          X
          ER0=(13,8),ER1=(13,8),ER2=(11,1),ER3=(11,1),          X
          ER4=(13,8),ER5=(24,8),ER6=(24,2),ER7=(13,2)
          PATH  DESTSA=(12,13),          X
          ER0=(13,8),ER1=(13,8),ER2=(13,2),ER3=(24,8),          X
          ER4=(24,2),ER5=(13,8),ER6=(13,2),ER7=(13,2)
```

NOTE: Only the subareas 10, 11, 12, 13 and 14 were tested.

SDLCST STATEMENTS FOR CONFIGURABLE LINK STATIONS

```
*****
*          SDLCST STATEMENTS FOR CONFIGURABLE LINK STATIONS          *
*          (STATEMENT MUST PRECEDE GROUP STATEMENTS)                  *
*****
SDL14PRI SDLCST MODE=PRI,
          GROUP=G14XPRI,          GROUP FOR PRIMARY LINKS          *
          RETRIES=(7,3,5),
          IRETRY=YES,             RETRY ON IDLE DETECT TIME OUT    *
          MAXOUT=7,
          PASSLIM=254
*
SDL14SEC SDLCST MODE=SEC,
          GROUP=G14XSEC,          GROUP FOR SECONDARY LINKS        *
          RETRIES=(7),
          MAXOUT=7,
          PASSLIM=254
*
*****
```

BSC GROUP SPECIFICATION FOR BSC 3270s LEASED LINE

```
*****
*          GROUP SPECIFICATION FOR REMOTE BSC 3270s LEASED LINE        *
*****
G14B1   GROUP DIAL=NO,           NON-SWITCHED LINES          X
          CUTOFF=1,             REQUIRED FOR BSC3270        NPAX
          NPACOLL=YES,
          PU=YES,                FOR CROSS DOMAIN          X
          TYPE=NCP,
          TRANSFR=3,             REQUIRED FOR BSC3270        X
          LNCTL=BSC              BSC LINE CONTROL          X
*****
```

BSC LINE MACRO FOR BSC 3270 (LINE 023)

```
*****
* LINE MACRO SPECIFICATION BSC LINK 023 DIRECT *
*****
L14023 LINE ADDRESS=(023), LINE ADDRESS ON 3705 X
      OWNER=M10, X
      NPACOLL=YES, NPAX X
      CLOCKNG=EXT, EXTERNAL MODEM CLOCKING X
      CODE=EBCDIC, EBCDIC 3270'S ONLY X
      CUTYPE=3271, 3271'S DEFINED X
      DUPLEX=FULL, X
      ETRATIO=30, DEFAULT X
      INTPRI=1, INTERRUPT PRIORITY IS 1 X
      LPDATS=YES, X
      NEGPOLP=.2, X
      NEWSYNC=YES, X
      PAUSE=1, 1 SECOND PAUSE BETWEEN SERVICE CYCLES X
      POLIMIT=(1,QUEUE), X
      POLLED=YES, POLLED DEVICE X
      RETRIES=(7,4,5), 7 RETRIES PLUS 4 SEC FOR 5 TIMES X
      SERVLIM=9, NUMBER OF ENTRIES FOR SERVICE X
      SERVPRI=OLD, PRIORITY TO OLD SESSIONS X
      SESSION=18, ALLOW UP TO 3 SESSIONS X
      SPEED=2400, LINE SPEED X
      SRT=(8000,64), X
      FEATUR2=(MODEL2), (V) VTAM X
      ISTATUS=ACTIVE, (V) VTAM X
      MODETAB=MT3270, (V) VTAM X
      USSTAB=US3270, (V) VTAM X
      VPACING=0 (V) VTAM X
```

BSC SERVICE MACRO SPECIFICATIONS REMOTE 3270

```
*****
* SERVICE MACRO SPECIFICATIONS REMOTE 3270 *
*****
      SERVICE ORDER=(B14023A,T14023A1,T14023A2, X
      T14023A3,T14023A4,T14023A5,T14023A6,T14023A7, X
      T14023A8, X
      B14023B,T14023B1,T14023B2, X
      T14023B3,T14023B4,T14023B5,T14023B6,T14023B7, X
      T14023B8) X
*****
```

3270 CLUSTER AND TERMINAL MACRO FOR 3270 BSC

```
*****
*          CLUSTER AND TERMINAL MACRO SPECIFICATIONS FOR 3270 BSC
*****
B14023A CLUSTER CRITSIT=YES,      SEND CLOSE-DOWN MESSAGE      X
          NPACOLL=YES,            NPAX
          GPOLL=40407F7F,        GENERAL POLL ADDRESS        X
          XMITLIM=1,            (V) VTAM                    X
          ISTATUS=ACTIVE

*
T14023A1 TERMINAL TERM=3277,      3277 DISPLAY STATION        X
          NPACOLL=YES,            NPAX
          ADDR=60604040,        SELECTION ADDRESS            X
          POLL=40404040,        POLL ADDRESS                  X
          ISTATUS=ACTIVE        (V) VTAM
T14023A2 TERMINAL TERM=3277,      3277 DISPLAY STATION        X
          NPACOLL=YES,            NPAX
          ADDR=6060C1C1,        SELECTION ADDRESS            X
          POLL=4040C1C1,        POLL ADDRESS                  X
          ISTATUS=ACTIVE        (V) VTAM
T14023A3 TERMINAL TERM=3277,      3277 DISPLAY STATION        X
          NPACOLL=YES,            NPAX
          ADDR=6060C2C2,        SELECTION ADDRESS            X
          POLL=4040C2C2,        POLL ADDRESS                  X
          ISTATUS=ACTIVE        (V) VTAM
T14023A4 TERMINAL TERM=3286,      3286 PRINTER                 X
          NPACOLL=YES,            NPAX
          ADDR=6060C3C3,        SELECTION ADDRESS            X
          POLL=4040C3C3,        POLL ADDRESS                  X
          ISTATUS=ACTIVE        (V) VTAM
T14023A5 TERMINAL TERM=3277,      3277 DISPLAY STATION        X
          NPACOLL=YES,            NPAX
          ADDR=6060C4C4,        SELECTION ADDRESS            X
          POLL=4040C4C4,        POLL ADDRESS                  X
          ISTATUS=ACTIVE        (V) VTAM
T14023A6 TERMINAL TERM=3277,      3277 DISPLAY STATION        X
          NPACOLL=YES,            NPAX
          ADDR=6060C5C5,        SELECTION ADDRESS            X
          POLL=4040C5C5,        POLL ADDRESS                  X
          ISTATUS=ACTIVE        (V) VTAM
T14023A7 TERMINAL TERM=3277,      3277 DISPLAY STATION        X
          NPACOLL=YES,            NPAX
          ADDR=6060C6C6,        SELECTION ADDRESS            X
          POLL=4040C6C6,        POLL ADDRESS                  X
          ISTATUS=ACTIVE        (V) VTAM
T14023A8 TERMINAL TERM=3286,      3286 PRINTER                 X
          NPACOLL=YES,            NPAX
          ADDR=6060C7C7,        SELECTION ADDRESS            X
          POLL=4040C7C7,        POLL ADDRESS                  X
          ISTATUS=INACTIVE      (V) VTAM
*****
```

3270 CLUSTER AND TERMINAL MACRO FOR 3270 BSC

```

*****
*          CLUSTER AND TERMINAL MACRO SPECIFICATIONS FOR 3270 BSC
*****
B14023B CLUSTER CRITSIT=YES,          SEND CLOSE-DOWN MESSAGE          X
          NPACOLL=YES,                NPAX
          GPOLL=C1C17F7F,            GENERAL POLL ADDRESS          X
          XMITLIM=1,                  (V) VTAM                        X
          ISTATUS=INACTIVE

*
T14023B1 TERMINAL TERM=3277,          3277 DISPLAY STATION          X
          NPACOLL=YES,                NPAX
          ADDR=61614040,              SELECTION ADDRESS             X
          POLL=C1C14040,              POLL ADDRESS                   X
          ISTATUS=INACTIVE            (V) VTAM
T14023B2 TERMINAL TERM=3277,          3277 DISPLAY STATION          X
          NPACOLL=YES,                NPAX
          ADDR=6161C1C1,              SELECTION ADDRESS             X
          POLL=C1C1C1C1,              POLL ADDRESS                   X
          ISTATUS=INACTIVE            (V) VTAM
T14023B3 TERMINAL TERM=3277,          3277 DISPLAY STATION          X
          NPACOLL=YES,                NPAX
          ADDR=6161C2C2,              SELECTION ADDRESS             X
          POLL=C1C1C2C2,              POLL ADDRESS                   X
          ISTATUS=INACTIVE            (V) VTAM
T14023B4 TERMINAL TERM=3277,          3277 DISPLAY STATION          X
          NPACOLL=YES,                NPAX
          ADDR=6161C3C3,              SELECTION ADDRESS             X
          POLL=C1C1C3C3,              POLL ADDRESS                   X
          ISTATUS=INACTIVE            (V) VTAM
T14023B5 TERMINAL TERM=3277,          3277 DISPLAY STATION          X
          NPACOLL=YES,                NPAX
          ADDR=6161C4C4,              SELECTION ADDRESS             X
          POLL=C1C1C4C4,              POLL ADDRESS                   X
          ISTATUS=INACTIVE            (V) VTAM
T14023B6 TERMINAL TERM=3277,          3277 DISPLAY STATION          X
          NPACOLL=YES,                NPAX
          ADDR=6161C5C5,              SELECTION ADDRESS             X
          POLL=C1C1C5C5,              POLL ADDRESS                   X
          ISTATUS=INACTIVE            (V) VTAM
T14023B7 TERMINAL TERM=3277,          3277 DISPLAY STATION          X
          NPACOLL=YES,                NPAX
          ADDR=6161C6C6,              SELECTION ADDRESS             X
          POLL=C1C1C6C6,              POLL ADDRESS                   X
          ISTATUS=INACTIVE            (V) VTAM
T14023B8 TERMINAL TERM=3277,          3277 DISPLAY STATION          X
          NPACOLL=YES,                NPAX
          ADDR=6161C7C7,              SELECTION ADDRESS             X
          POLL=C1C1C7C7,              POLL ADDRESS                   X
          ISTATUS=INACTIVE            (V) VTAM

```

NPA VIRTUAL GROUP FOR NPA

```

*****
*          VIRTUAL GROUP FOR NPA
*****
G14NPA  GROUP LNCTL=SDLC,VIRTUAL=YES,NPARSC=YES          NPA
L14NPA  LINE  OWNER=M11
P14NPA  PU
T14NPA  LU      MAXCOLL=50          NPA
*
*****

```

SDLC GROUP SPECIFICATIONS FOR SDLC LOCAL/LOCAL LINKS

```
*****
*          GROUP MACRO SPECIFICATIONS FOR SDLC LOCAL/LOCAL LINKS          *
*****
G14XSEC  GROUP MODE=SEC, LNCTL=SDLC, ACTIVTO=120
*
G14XPRI  GROUP MODE=PRI, LNCTL=SDLC, REPLYTO=1
*
*****
```

SDLC SPECIFICATION FOR LINE 24 LOCAL TO LOCAL LINK

```
*****
*          LINE MACRO SPECIFICATION FOR LINE 24  LOCAL TO LOCAL LINK      *
*****
L14024  LINE  ADDRESS=024,          TRANSMIT AND RECEIVE ADDRESSES      X
          CLOCKNG=EXT,           MODEM PROVIDES CLOCKING             X
          DUPLEX=FULL,           MODEM STRAPPING IS FULL             X
          INTPRI=2,              INTERRUPT PRIORITY              *
          MONLINK=YES,           MONITOR LINK FOR ACTPU         *
          NEWSYNC=NO,            *
          NRZI=YES,              *
          PAUSE=0.1,              *
          SDLCST=(SDL14PRI,SDL14SEC), *
          SERVLIM=254,           *
          SRT=(,64),              *
          SPEED=57600,           LINE SPEED IS 57600 BPS      X
          ISTATUS=ACTIVE         INITIAL STATUS
*****
```

3705 PU SPECIFICATION FOR THE ADJACENT 3705 SA13

```
*****
*          PU MACRO SPECIFICATION FOR THE ADJACENT 3705  SA13            *
*****
P14024  PU    MAXOUT=7,           MAX PIU'S SENT BEFORE RESP REQ  X
          PUTYPE=4,              PHYSICAL UNIT TYPE LOCAL 3705  X
          ISTATUS=ACTIVE,        INITIAL STATUS                  X
          TGN=8,                 TRANSMISSION GROUP 8           *
          ANS=CONTINUE           DON'T BREAK THE X-DOMAIN SESSIONS
*****
```

SDLC SPECIFICATION FOR LINE 2C/2E LOCAL TO LOCAL LINK

```
*****
* LINE MACRO SPECIFICATION FOR LINE 02C/02E LOCAL TO LOCAL LINK *
*****
L1402C LINE ADDRESS=(02C,02E), TRANSMIT AND RECEIVE ADDRESSES X
        CLOCKNG=(EXT,EXT), MODEM PROVIDES CLOCKING X
        DUPLEX=(FULL,FULL), MODEM STRAPPING IS FULL X
        INTPRI=3, INTERRUPT PRIORITY *
        MONLINK=YES, MONITOR LINK FOR ACTPU *
        NEWSYNC=(NO,NO), *
        NRZI=YES, *
        PAUSE=0.1, *
        SDLCST=(SDL14PRI,SDL14SEC), *
        SERVLIM=254, *
        SRT=(,64), *
        SPEED=(57600,57600), LINESPEED IS 57600 BPS X
        ISTATUS=ACTIVE INITIAL STATUS
*****
```

37X5 PU SPECIFICATION FOR THE ADJACENT 37X5 (ANY)

```
*****
* PU MACRO SPECIFICATION FOR THE ADJACENT 37X5 (ANY) *
*****
P1402C PU MAXOUT=7, MAX PIU'S SENT BEFORE RESP REQ X
        PUTYPE=4, PHYSICAL UNIT TYPE LOCAL 37X5 X
        ISTATUS=ACTIVE, INITIAL STATUS X
        TGN=8, TRANSMISSION GROUP 8 *
        ANS=CONTINUE DO'NT BREAK THE X-DOMAIN SESSIONS
*****
```

SDLC SPECIFICATION FOR LINE A8/A9 LOCAL TO LOCAL LINK

```
*****
* LINE MACRO SPECIFICATION FOR LINE A8/A9 LOCAL TO LOCAL LINK *
*****
L140A8 LINE ADDRESS=(0A8,0A9), TRANSMIT AND RECEIVE ADDRESSES X
        CLOCKNG=(EXT,EXT), MODEM PROVIDES CLOCKING X
        DUPLEX=(FULL,FULL), MODEM STRAPPING IS FULL X
        INTPRI=2, INTERRUPT PRIORITY *
        MONLINK=YES, MONITOR LINK FOR ACTPU *
        NEWSYNC=(NO,NO), *
        NRZI=YES, *
        PAUSE=0.1, *
        SDLCST=(SDL14PRI,SDL14SEC), *
        SERVLIM=254, *
        SPEED=(19200,19200), LINE SPEED IS 19200 BPS X
        SRT=(,64), *
        ISTATUS=ACTIVE INITIAL STATUS
*****
```


3725 PU SPECIFICATION FOR an ADJACENT 3725 SA13

```
*****
*      PU MACRO SPECIFICATION FOR THE ADJACENT 3725 SA13      *
*****
P140A8  PU      MAXOUT=7,          MAX PIU'S SENT BEFORE RESP REQ      X
          PUTYPE=4,          PHYSICAL UNIT TYPE LOCAL 3725      X
          ISTATUS=ACTIVE,    INITIAL STATUS                          X
          TGN=2,              TRANSMISSION GROUP 2                *
          ANS=CONTINUE       DON'T BREAK THE X-DOMAIN SESSIONS
*****
```

SDLC GROUP MACRO SPECIFICATIONS FOR SDLC LINES

```
*****
*      GROUP MACRO SPECIFICATIONS FOR SDLC LINES              *
*****
G14S1   GROUP  LNCTL=SDLC,        SYNCHRONOUS DATA LINK      X
          CLOCKNG=EXT,          MODEM PROVIDES CLOCKING        X
          DUPLEX=FULL,          REQUEST TO SEND ALWAYS UP      X
          NRZI=YES,              X
          REPLYTO=1,            1 SECOND FOR SDLC              X
          RETRIES=(7,4,5),      7 RETRY PER SECOND FOR 5 TIMES X
          TYPE=NCP              NCP ONLY
*****
```

SDLC LINE SPECIFICATION SDLC LINK 020

```
*****
*      LINE MACRO SPECIFICATION SDLC LINK 020                *
*****
L14020  LINE  ADDRESS=(020),      TRANSMIT AND RECEIVE ADDRESS X
          OWNER=M11,              X
          ISTATUS=ACTIVE,          X
          DUPLEX=(FULL),          REQUEST TO SEND ALWAYS UP X
          ETRATIO=30,             DEFAULT                       X
          LPDATS=YES,              X
          MAXPU=9,                ALLOW NO MORE THAN 9 PUS ON LINE X
          SERVLIM=10,             X
          SRT=(,64),              X
          SPEED=(9600)            LINE SPEED IS 9600 BPS
*****
```

SDLC SERVICE SPECIFICATION FOR SDLC (LINE 020)

```
*****
*      SERVICE MACRO SPECIFICATION FOR SDLC (LINE 020)      *
*****
          SERVICE ORDER=(P14020A, X
          P14020B,                X
          P14020C,                X
          P14020D,                X
          P14020G),                X
          MAXLIST=9
*****
```

8100 PU MACRO SPECIFICATION FOR 8100

```
*****
*          PU/LU MACRO SPECIFICATION FOR 8100          *
*****
P14020A PU      ADDR=C1,          CLUSTER ADDRESS ='B' (EBCDIC)      X
                ANS=CONTINUE,     DON'T BREAK THE X-DOMAIN SESSIONS  X
                MAXLU=64,         MAXIMUM LUS ON THIS PU          X
                MAXOUT=7,        MAX SDLC FRAMES BEFORE RESPONSE  X
                MAXDATA=265,     MAX PIU SIZE INC TH & RH      X
                PACING=4,        SECONDARY RECEIVES              X
                PASSLIM=1,       MAX PIU'S SENT PER SERVICE ENTRY  X
                PUDR=YES,        PHYSICAL UNIT TYPE ONE          X
                PUTYPE=2,        7 RETRY PER SECOND FOR 5 TIMES    X
                RETRIES=(,4,5),  PRIMARY SENDS                X
                VPACING=6,       INITIAL STATUS                  X
                ISTATUS=ACTIVE,
                MODETAB=MODEDPPX
*****
```

8100 LOGICAL UNIT SPECIFICATIONS FOR 8100

```
*****
N001HDT1 LU     LOCADDR=1, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N001HDT2 LU     LOCADDR=2, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N001      LU     LOCADDR=3, ISTATUS=ACTIVE, MODETAB=MODEDPPX
D001      LU     LOCADDR=4, ISTATUS=ACTIVE, MODETAB=MODEDPPX
G001      LU     LOCADDR=5, ISTATUS=ACTIVE, MODETAB=MODEDPPX
H001      LU     LOCADDR=6, ISTATUS=ACTIVE, MODETAB=MODEDPPX
I001      LU     LOCADDR=7, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N001RJE1 LU     LOCADDR=8, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N001RJE2 LU     LOCADDR=9, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N001RJE3 LU     LOCADDR=10, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N001DSC1 LU     LOCADDR=11, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N001DSC2 LU     LOCADDR=12, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N001DSC3 LU     LOCADDR=13, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N001DSC4 LU     LOCADDR=14, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N001DSC5 LU     LOCADDR=15, ISTATUS=ACTIVE, MODETAB=MODEDPPX
L101      LU     LOCADDR=16, ISTATUS=ACTIVE, MODETAB=MODEDPPX
L201      LU     LOCADDR=17, ISTATUS=ACTIVE, MODETAB=MODEDPPX
L301      LU     LOCADDR=18, ISTATUS=ACTIVE, MODETAB=MODEDPPX
L401      LU     LOCADDR=19, ISTATUS=ACTIVE, MODETAB=MODEDPPX
L501      LU     LOCADDR=20, ISTATUS=ACTIVE, MODETAB=MODEDPPX
F101      LU     LOCADDR=21, ISTATUS=ACTIVE, MODETAB=MODEDPPX
F201      LU     LOCADDR=22, ISTATUS=ACTIVE, MODETAB=MODEDPPX
F301      LU     LOCADDR=23, ISTATUS=ACTIVE, MODETAB=MODEDPPX
F401      LU     LOCADDR=24, ISTATUS=ACTIVE, MODETAB=MODEDPPX
F501      LU     LOCADDR=25, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N001T1    LU     LOCADDR=26, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N001T2    LU     LOCADDR=27, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N001T3    LU     LOCADDR=28, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N001T4    LU     LOCADDR=29, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N001T5    LU     LOCADDR=30, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N001N1    LU     LOCADDR=31, ISTATUS=ACTIVE, MODETAB=MODEDPPX
N001N2    LU     LOCADDR=32, ISTATUS=ACTIVE, MODETAB=MODEDPPX
*****
```

8100 PU MACRO SPECIFICATION FOR 8100

```

*****
*
*   PHYSICAL UNIT SPECIFICATIONS FOR 8100 DPCX, SUBSYSTEM ID 'AB'
*
*****
P14020B PU   ADDR=C2,           MUST MATCH SYSIMOD (X'C2' = DEC 194) X
              ANS=CONTINUE,
              MAXLU=64,
              MAXDATA=265,
              MAXOUT=7,
              PASSLIM=7,
              VPACING=0,           VPACING SET IN MODE TABLE (PSNDPAC). X
              PACING=0,           PACING SET IN MODE TABLE (SRCVPAC). X
              ISTATUS=ACTIVE,
              MODETAB=MTDPCX
*****

```

8100 LOGICAL UNIT SPECIFICATIONS FOR 8100

```

*****
*   LOGICAL UNIT SPECIFICATIONS FOR 8100 DPCX, SUBSYSTEM ID 'AB'
*
*****
INTXAB01 LU   LOCADDR=1,DLOGMOD=T1BDPCX           SSS
TEXTAB02 LU   LOCADDR=2,DLOGMOD=PC000000         HCF/NIM
*
TEXTAB10 LU   LOCADDR=10,DLOGMOD=T1BDPCX        SYSINFOREF
TEXTAB11 LU   LOCADDR=11,DLOGMOD=T1BDPCX        DSX
TEXTAB12 LU   LOCADDR=12,DLOGMOD=PC000000       HCF
TEXTAB13 LU   LOCADDR=13,DLOGMOD=PC000000       HCF
TEXTAB14 LU   LOCADDR=14,DLOGMOD=PC000000       HCF
*
TEXTAB18 LU   LOCADDR=18                         RJE
TEXTAB19 LU   LOCADDR=19                         RJE
*EXTAB20 LU   LOCADDR=20,ISTATUS=INACTIVE        RJE
*EXTAB21 LU   LOCADDR=21,ISTATUS=INACTIVE        RJE
*EXTAB22 LU   LOCADDR=22,ISTATUS=INACTIVE        RJE
*
TEXTAB23 LU   LOCADDR=23,DLOGMOD=PC020107       DISOSS
TEXTAB24 LU   LOCADDR=24,DLOGMOD=PC020107       DISOSS
TEXTAB25 LU   LOCADDR=25,DLOGMOD=PC020107       DISOSS
TEXTAB26 LU   LOCADDR=26,DLOGMOD=PC020107       DISOSS
TEXTAB27 LU   LOCADDR=27,DLOGMOD=PC020107       DISOSS
TEXTAB28 LU   LOCADDR=28,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
TEXTAB29 LU   LOCADDR=29,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
TEXTAB30 LU   LOCADDR=30,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
TEXTAB31 LU   LOCADDR=31,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
TEXTAB32 LU   LOCADDR=32,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
TEXTAB33 LU   LOCADDR=33,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
TEXTAB34 LU   LOCADDR=34,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS

```

```

*
**** DSC FOR LINK- OR LOOP-ATTACHED DEVICES.
*
TEXTAB50 LU      LOCADDR=50,MODETAB=MTCXPCA
TEXTAB51 LU      LOCADDR=51,MODETAB=MTCXPCA
TEXTAB52 LU      LOCADDR=52,MODETAB=MTCXPCA
TEXTAB53 LU      LOCADDR=53,MODETAB=MTCXPCA
TEXTAB54 LU      LOCADDR=54,MODETAB=MTCXPCA
TEXTAB55 LU      LOCADDR=55,MODETAB=MTCXPCA,DLOGMOD=PC020107      LU1 3287
TEXTAB56 LU      LOCADDR=56,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXTAB57 LU      LOCADDR=57,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXTAB58 LU      LOCADDR=58,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXTAB59 LU      LOCADDR=59,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXTAB60 LU      LOCADDR=60,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXTAB61 LU      LOCADDR=61,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXTAB62 LU      LOCADDR=62,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXTAB63 LU      LOCADDR=63,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXTAB64 LU      LOCADDR=64,MODETAB=MTCXPCA,ISTATUS=INACTIVE
*
*****

```

3276 PU/LU SPECIFICATIONS FOR PU3276

```

*****
*      PU/LU SPECIFICATIONS FOR PU3276
*****
P14020C PU      ADDR=C3,          CLUSTER ADDRESS = 01          X
                ANS=CONTINUE,     DON'T BREAK THE X-DOMAIN SESSIONS *
                MAXDATA=265,      MAXIMUM AMOUNT OF DATA      X
                MAXLU=64,         MAXIMUM LUS ON THIS PU      X
                MAXOUT=7,         MAX SDLC FRAMES BEFORE RESPONSE X
                PACING=0,         PACING SET BY BIND IMAGE      X
                PASSLIM=8,        X
                PUDR=YES,         X
                PUTYPE=2,         X
                RETRIES=(,4,5),    7 RETRY PER SECOND FOR 5 TIMES X
                DISCNT=(NO),      (V) VTAM                     X
                ISTATUS=INACTIVE, (V) VTAM                     X
                SSCPFM=USSSCS,    (V) VTAM                     X
                USSTAB=US3276,    (V) VTAM                     X
                VPACING=0,        (V) VTAM                     X
T14020C1 LU      LOCADDR=2,      FIRST LU MUST BE LOCADDR=2    X
                MODETAB=MT32763,DLOGMOD=T3278M3, X
                ISTATUS=ACTIVE    (V) VTAM                     X
T14020C2 LU      LOCADDR=3,      X
                MODETAB=MT3287,    (V) VTAM                     X
                ISTATUS=ACTIVE    (V) VTAM                     X
T14020C3 LU      LOCADDR=4,      X
                MODETAB=MT32763,DLOGMOD=T3278M3, X
                ISTATUS=ACTIVE    (V) VTAM                     X

```

NOTE: In the control unit the duplex switch must always be setup in half duplex.

6670 CLUSTER Macro Specification

```

*
*          PU/LU MACRO SPECIFICATION FOR 6670
*
*****
P14020D  PU      ADDR=C4,
                ANS=CONTINUE,          DON'T BREAK THE X-DOMAIN SESSIONS
                MAXDATA=261,
                MAXLU=2,
                MAXOUT=2,
                PASSLIM=1,
                PUDR=NO,                ALLOW LUS TO BE ADDED TO THIS PU
                PUTYPE=1,
                RETRIES=(,4,5),        7 RETRY PER SECOND FOR 5 TIMES
                ISTATUS=INACTIVE      (V) VTAM
T14020D1 LU      LOCADDR=0,
                PACING=1,
                ISTATUS=INACTIVE      (V) VTAM
*****

```

4700 PU MACRO SPECIFICATION FOR 4700

```

*
*          PU/LU MACRO SPECIFICATION FOR 4700
*
*****
P14020G  PU      ADDR=C7,
                ANS=CONTINUE,          DON'T BREAK THE X-DOMAIN SESSIONS
                MAXDATA=265,
                MAXLU=64,
                MAXOUT=7,
                PACING=0,
                PASSLIM=3,
                PUDR=YES,
                PUTYPE=2,
                ISTATUS=ACTIVE,        (V) VTAM
                VPACING=0
FA14020G LU      LOCADDR=1,
                ISTATUS=ACTIVE        (V) VTAM
T14020G2 LU      LOCADDR=2,
                ISTATUS=INACTIVE      (V) VTAM
T14020G3 LU      LOCADDR=3,
                ISTATUS=INACTIVE      (V) VTAM
T14020G4 LU      LOCADDR=4,
                ISTATUS=INACTIVE      (V) VTAM
*****

```

SDLC LINE SPECIFICATION SDLC LINK 0A0

```
*****
* LINE MACRO SPECIFICATION SDLC LINK 0A0 *
*****
L140A0 LINE ADDRESS=(0A0), TRANSMIT AND RECEIVE ADDRESSES X
          ISTATUS=ACTIVE, X
          DUPLEX=(FULL), REQUEST TO SEND ALWAYS UP X
          ETRATIO=30, DEFAULT X
          LPDATS=YES, X
          MAXPU=9, ALLOW NO MORE THAN 9 PUS ON LINE X
          SERVLIM=10, X
          SRT=(8000,64), X
          SPEED=(9600) LINE SPEED IS 9600 BPS X
*****
```

SDLC SERVICE SPECIFICATION FOR SDLC (LINE 0A0)

```
*****
* SERVICE MACRO SPECIFICATION FOR SDLC (LINE 0A0) *
*****
SERVICE ORDER=(P140A0C, X
P140A0F), X
MAXLIST=9 X
*****
```

3276 PU/LU SPECIFICATIONS FOR PU3276

```
*****
* PU/LU SPECIFICATIONS FOR PU3276
*****
P140A0C PU ADDR=C3, CLUSTER ADDRESS = 01 X
          ANS=CONTINUE, DON'T BREAK THE X-DOMAIN SESSIONS *
          MAXDATA=265, MAXIMUM AMOUNT OF DATA X
          MAXLU=64, MAXIMUM LUS ON THIS PU X
          MAXOUT=7, MAX SDLC FRAMES BEFORE RESPONSE X
          PACING=0, PACING SET BY BIND IMAGE X
          PASSLIM=8, X
          PUDR=YES, X
          PUTYPE=2, X
          RETRIES=(,4,5), 7 RETRY PER SECOND FOR 5 TIMES X
          DISCNT=(NO), (V) VTAM X
          ISTATUS=INACTIVE, (V) VTAM X
          SSCPFM=USSCS, (V) VTAM X
          USSTAB=US3276, (V) VTAM X
          VPACING=0 (V) VTAM X
T140A0C1 LU LOCADDR=2, FIRST LU MUST BE LOCADDR=2 X
          MODETAB=MT32763,DLOGMOD=D6327803, X
          ISTATUS=INACTIVE (V) VTAM X
T140A0C2 LU LOCADDR=3, X
          MODETAB=MT3287, (V) VTAM X
          ISTATUS=INACTIVE (V) VTAM X
T140A0C3 LU LOCADDR=4, X
          MODETAB=MT32763,DLOGMOD=D6327803, X
          ISTATUS=INACTIVE (V) VTAM X
```

NOTE: In the control unit the duplex switch must always be setup in half duplex.

3274 PU/LU SPECIFICATIONS FOR PU3274

```

*****
*      PU/LU SPECIFICATIONS FOR PU3274
*****
P140A0F PU   ADDR=C6,          CLUSTER ADDRESS = C6          X
              ANS=CONTINUE,    DON'T BREAK THE X-DOMAIN SESSIONS *
              MAXDATA=265,      MAXIMUM AMOUNT OF DATA      X
              MAXLU=64,         MAXIMUM LUS ON THIS PU      X
              MAXOUT=7,         MAX SDLC FRAMES BEFORE RESPONSE X
              PACING=0,         PACING SET BY BIND IMAGE     X
              PASSLIM=8,                          X
              PUDR=YES,                          X
              PUTYPE=2,                          X
              RETRIES=(,4,5),    7 RETRY PER SECOND FOR 5 TIMES X
              DISCNT=(NO),      (V) VTAM                      X
              ISTATUS=ACTIVE,   (V) VTAM                      X
              SSCPFM=USSSCS,    (V) VTAM                      X
              USSTAB=US3276,    (V) VTAM                      X
              VPACING=0,        (V) VTAM                      X
T140A0F1 LU  LOCADDR=2,        FIRST LU MUST BE LOCADDR=2    X
              MODETAB=MT3274A2,DLOGMOD=GMOD2E, X
              ISTATUS=ACTIVE   (V) VTAM
T140A0F2 LU  LOCADDR=3,                          X
              MODETAB=MT3274A3,DLOGMOD=PMD2E, X
              ISTATUS=ACTIVE   (V) VTAM
T140A0F3 LU  LOCADDR=4,                          X
              MODETAB=MT3274A3,DLOGMOD=GMOD3E, X
              ISTATUS=ACTIVE   (V) VTAM
T140A0F4 LU  LOCADDR=5,                          X
              MODETAB=MT3274A3,DLOGMOD=GMOD3E, X
              ISTATUS=ACTIVE   (V) VTAM
T140A0F5 LU  LOCADDR=6,                          X
              MODETAB=MT3274A3,DLOGMOD=GMOD3E, X
              ISTATUS=ACTIVE   (V) VTAM
T140A0F6 LU  LOCADDR=7,                          X
              MODETAB=MT3274A2,DLOGMOD=D6327803, X
              ISTATUS=ACTIVE   (V) VTAM
T140A0F7 LU  LOCADDR=8,                          X
              MODETAB=MT3274A2,DLOGMOD=GMOD2E, X
              ISTATUS=ACTIVE   (V) VTAM
T140A0F8 LU  LOCADDR=9,                          X
              MODETAB=MT3274A2,DLOGMOD=D6327802, X
              ISTATUS=ACTIVE   (V) VTAM

```

NOTE: In the control unit the duplex switch must always be setup in half duplex.

SDLC LINE SPECIFICATION SDLC LINK 0A7

```
*****
* LINE MACRO SPECIFICATION FOR LINE A7 (8100, 3600 AND 6670) *
*****
L140A7 LINE ADDRESS=0A7, TRANSMIT AND RECEIVE ADDRESS X
      OWNER=M11, X
      DUPLEX=FULL, MODEM STRAPPING IS FULL X
      SPEED=9600, LINE SPEED IS 9600 BPS X
      CLOCKNG=EXT, MODEM PROVIDES CLOCKING X
      ETRATIO=30, X
      LPDATS=(YES,3867), X
      MAXPU=9, ALLOW NO MORE THAN 9 PUS ON LINE X
      SERVLIM=4, X
      SRT=(,64), X
      ISTATUS=ACTIVE INITIAL STATUS X
*****
```

SDLC SERVICE SPECIFICATION FOR SDLC (LINE 0A7)

```
*****
* SERVICE ORDER FOR SDLC DEVICES (LINE 0A7) *
*****
      SERVICE ORDER=(P140A7A,P140A7B,P140A7C),MAXLIST=9
*****
```

8100 PU MACRO SPECIFICATION FOR 8100

```
*****
* PU MACRO SPECIFICATION FOR 8100 *
*****
P140A7A PU ADDR=C9, CLUSTER ADDRESS ='I' (EBCDIC) X
      ANS=CONTINUE, DON'T BREAK CROSS DOMAIN SESSIONS X
      MAXLU=64, MAXIMUM LUS ON THIS PU X
      MAXOUT=7, MAX SDLC FRAMES BEFORE RESPONSE X
      MAXDATA=265, MAX PIU SIZE INC TH & RH X
      PACING=0, SECONDARY RECEIVES X
      PASSLIM=7, MAX PIU'S SENT PER SERVICE ENTRY X
      PUDR=YES, X
      PUTYPE=2, PHYSICAL UNIT TYPE ONE X
      VPACING=0, PRIMARY SENDS X
      RETRIES=(,4,5), 7 RETRY PER SECOND FOR 5 TIMES X
      ISTATUS=INACTIVE, X
      MODETAB=MODEDPPX LOGON MODE TABLE FOR 8100'S X
*****
```


8100 LOGICAL UNIT SPECIFICATIONS FOR 8100

```
*****
* LOGICAL UNIT SPECIFICATIONS FOR 8100 WITH 9 LU'S *
*****
T140A7A1 LU LOCADDR=1, ISTATUS=ACTIVE
T140A7A2 LU LOCADDR=2, ISTATUS=ACTIVE
T140A7A3 LU LOCADDR=3, ISTATUS=ACTIVE
T140A7A4 LU LOCADDR=4, ISTATUS=ACTIVE ==> DSC-LU
T140A7A5 LU LOCADDR=5, ISTATUS=ACTIVE
T140A7A6 LU LOCADDR=6, ISTATUS=ACTIVE
T140A7A7 LU LOCADDR=7, ISTATUS=ACTIVE
T140A7A8 LU LOCADDR=8, ISTATUS=ACTIVE
T140A7A9 LU LOCADDR=9, ISTATUS=ACTIVE
*****
```

3600 PU MACRO SPECIFICATION FOR 3600

```
*****
* PU MACRO SPECIFICATION FOR 3600 *
*****
P140A7B PU ADDR=C1, CLUSTER ADDRESS ='A' (EBCDIC) X
ANS=CONTINUE, DON'T BREAK CROSS DOMAIN SESSIONS X
MAXLU=64, MAXIMUM LUS ON THIS PU X
MAXOUT=7, MAX SDLC FRAMES BEFORE RESPONSE X
MAXDATA=265, MAX PIU SIZE INC TH & RH X
PACING=0, SECONDARY RECEIVES X
PASSLIM=7, MAX PIU'S SENT PER SERVICE ENTRY X
PUDR=YES, X
PUTYPE=2, PHYSICAL UNIT TYPE ONE X
VPACING=0, PRIMARY SENDS X
RETRIES=(,4,5), 7 RETRY PER SECOND FOR 5 TIMES X
ISTATUS=INACTIVE
*****
* LOGICAL UNIT SPECIFICATIONS FOR 3600 *
*****
FA140A7B LU LOCADDR=1, ISTATUS=ACTIVE
*****
```

6670 CLUSTER Macro Specification

```
*****
* PU MACRO SPECIFICATION FOR 6670 *
*****
P140A7C PU ADDR=1B, X
ANS=CONTINUE, DON'T BREAK CROSS DOMAIN SESSIONS X
MAXDATA=261, X
MAXLU=64, X
MAXOUT=2, X
PASSLIM=2, X
PUDR=YES, X
PUTYPE=1, X
RETRIES=(,4,5), X
ISTATUS=ACTIVE (V) VTAM X
T6670 LU LOCADDR=0, X
PACING=2, VPACING=3, MODETAB=MT6670
*****
```

SDLC GROUP MACRO SPECIFICATIONS FOR SDLC LINES

```
*****
*          GROUP MACRO SPECIFICATION FOR LEASED LINES.          *
*****
G14S3    GROUP TYPE=NCP,                                       X
          LNCTL=SDLC,                                           X
          DIAL=NO          LEASED LINES.
*****
```

SDLC LINE SPECIFICATION SDLC LINK 022

```
*****
*          LINE MACRO SPECIFICATION FOR 8100/DPCX LEASED LINES.  *
*****
L14022   LINE ADDRESS=(022),                                     X
          SPEED=9600,                                           X
          DUPLEX=(FULL),          4-WIRE LINE.                 X
          LPDATS=YES,                                           X
          NEWSYNC=(NO),                                         X
          NRZI=YES,          MUST MATCH DPCX SYSIMOD VALUE.   X
          RETRIES=(7,4,5)
*****
```

SDLC SERVICE SPECIFICATION FOR SDLC (LINE 22)

```
*****
*          SERVICE MACRO SPECIFICATION FOR SDLC LINE 022        *
*****
          SERVICE ORDER=(P14022A,P14022B,P14022C,             X
          P14022J,P14022K,P14022L),                           X
          MAXLIST=10
*****
```

8100 PU MACRO SPECIFICATION FOR 8100

```
*****
*          PU MACRO SPECIFICATION FOR 8100 DPCX                *
*****
P14022A  PU  ADDR=C1,          MUST MATCH SYSIMOD (X'C1' = DEC 193) X
          ANS=CONTINUE,                                         X
          MAXDATA=265,                                         X
          MAXOUT=7,                                           X
          PASSLIM=7,                                           X
          VPACING=0,          VPACING SET IN MODE TABLE (PSNDPAC). X
          PACING=0,          PACING SET IN MODE TABLE (SRCVPAC). X
          ISTATUS=ACTIVE,                                       X
          MODETAB=MTDPCX,                                       X
          SRT=(,64)
*****
```

8100 LOGICAL UNIT SPECIFICATIONS FOR 8100

 * LOGICAL UNIT SPECIFICATIONS FOR 8100 DPCX, SUBSYSTEM ID 'AA' *

```

INTXAA01 LU      LOCADDR=1,DLOGMOD=T1BDPCX          SSS
TEXTAA02 LU      LOCADDR=2,DLOGMOD=PC000000        HCF/NIM
*
TEXTAA10 LU      LOCADDR=10,DLOGMOD=T1BDPCX        SYSINFOREF
TEXTAA11 LU      LOCADDR=11                        DSX
TEXTAA12 LU      LOCADDR=12,DLOGMOD=PC000000        HCF
TEXTAA13 LU      LOCADDR=13,DLOGMOD=PC000000        HCF
TEXTAA14 LU      LOCADDR=14,DLOGMOD=PC000000        HCF
TEXTAA15 LU      LOCADDR=15                        DIF
TEXTAA16 LU      LOCADDR=16                        DIF
*
TEXTAA18 LU      LOCADDR=18                        RJE
TEXTAA19 LU      LOCADDR=19                        RJE
TEXTAA20 LU      LOCADDR=20                        RJE
TEXTAA21 LU      LOCADDR=21                        RJE
TEXTAA22 LU      LOCADDR=22                        RJE
*
TEXTAA23 LU      LOCADDR=23,DLOGMOD=PC020107        DISOSS
TEXTAA24 LU      LOCADDR=24,DLOGMOD=PC020107        DISOSS
TEXTAA25 LU      LOCADDR=25,DLOGMOD=PC020107        DISOSS
TEXTAA26 LU      LOCADDR=26,DLOGMOD=PC020107        DISOSS
TEXTAA27 LU      LOCADDR=27,DLOGMOD=PC020107        DISOSS
TEXTAA28 LU      LOCADDR=28,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
TEXTAA29 LU      LOCADDR=29,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
TEXTAA30 LU      LOCADDR=30,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
TEXTAA31 LU      LOCADDR=31,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
TEXTAA32 LU      LOCADDR=32,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
TEXTAA33 LU      LOCADDR=33,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
TEXTAA34 LU      LOCADDR=34,DLOGMOD=PC020107,ISTATUS=INACTIVE DISOSS
  
```

**** DSC FOR DPA-ATTACHED DEVICES.

```

*
TEXTAA45 LU      LOCADDR=45,MODETAB=MTCXDPA
TEXTAA46 LU      LOCADDR=46,MODETAB=MTCXDPA
TEXTAA47 LU      LOCADDR=47,MODETAB=MTCXDPA,ISTATUS=INACTIVE
TEXTAA48 LU      LOCADDR=48,MODETAB=MTCXDPA,ISTATUS=INACTIVE
TEXTAA49 LU      LOCADDR=49,MODETAB=MTCXDPA
  
```

**** DSC FOR LINK- OR LOOP-ATTACHED DEVICES.

```

*
TEXTAA50 LU      LOCADDR=50,MODETAB=MTCXPCA
TEXTAA51 LU      LOCADDR=51,MODETAB=MTCXPCA
TEXTAA52 LU      LOCADDR=52,MODETAB=MTCXPCA
TEXTAA53 LU      LOCADDR=53,MODETAB=MTCXPCA
TEXTAA54 LU      LOCADDR=54,MODETAB=MTCXPCA
TEXTAA55 LU      LOCADDR=55,MODETAB=MTCXPCA,DLOGMOD=PC020100 LU1 3287
TEXTAA56 LU      LOCADDR=56,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXTAA57 LU      LOCADDR=57,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXTAA58 LU      LOCADDR=58,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXTAA59 LU      LOCADDR=59,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXTAA60 LU      LOCADDR=60,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXTAA61 LU      LOCADDR=61,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXTAA62 LU      LOCADDR=62,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXTAA63 LU      LOCADDR=63,MODETAB=MTCXPCA,ISTATUS=INACTIVE
TEXTAA64 LU      LOCADDR=64,MODETAB=MTCXPCA,ISTATUS=INACTIVE
  
```

6580 PU & LU MACRO FOR DISPLAYWRITER (6580)

```
*****
*          PU & LU SPECIFICATION FOR DISPLAYWRITER (6580)          *
*****
P14022B  PU      ADDR=C2,
              ANS=CONTINUE,
              MAXDATA=265,
              MAXOUT=7,
              PASSLIM=7,
              ISTATUS=INACTIVE,
              VPACING=0,
              PACING=0,
              MODETAB=MT6580,
              SRT=(,64)
TDW01LU1  LU      LOCADDR=1,
                  DLOGMOD=PC060307
TDW01LU2  LU      LOCADDR=2,
                  ISTATUS=INACTIVE
TDW01LU3  LU      LOCADDR=3,
                  ISTATUS=INACTIVE
*
*****
```

8815 PU & LU MACRO SPECIFICATIONS FOR SCANMASTER

```
*****
*          PU & LU SPECIFICATION FOR SCANMASTER                    *
*****
P14022C  PU      ADDR=C3,
              ANS=CONTINUE,
              MAXDATA=521,
              MAXOUT=7,
              PASSLIM=7,
              ISTATUS=INACTIVE,
              VPACING=0,
              PACING=0,
              MODETAB=MT8815,
              SRT=(,64)
TSM01LU1  LU      LOCADDR=1,
                  DLOGMOD=PC060300
*
*****
```

3275 PU & LU MACRO SPECIFICATIONS FOR 3275 MOD 12

```

*****
*          PU/LU MACRO SPECIFICATION FOR 3275 MOD 12          *
*****
P14022J  PU      ADDR=D1,                                     X
                  BNNSUP=3270,                               X
                  MAXDATA=261,                              X
                  MAXLU=64,                                 X
                  MAXOUT=7,                                 X
                  PACING=1,                                 X
                  PASSLIM=12,                               X
                  PUDR=YES,                                 X
                  PUTYPE=1,                                 X
                  RETRIES=(,4,5), 7 RETRY PER SECOND FOR 5 TIMES X
                  ANS=CONTINUE,                             X
                  SRT=(,64),                                 X
                  ISTATUS=INACTIVE, (V) VTAM                 X
                  MODETAB=MT3270, (V) VTAM                 X
                  SSCPFM=USS3270, (V) VTAM                 X
                  USSTAB=US3270, (V) VTAM                 X
                  VPACING=3, (V) VTAM                      X
T14022J1 LU      LOCADDR=0,                                  X
                  ISTATUS=ACTIVE (V) VTAM
*****

```

3276 PU/LU MACRO SPECIFICATION FOR 3276

```

*****
*          PU/LU SPECIFICATIONS FOR PU3276                    *
*****
P14022K  PU      ADDR=D2, CLUSTER ADDRESS = 01             X
                  MAXDATA=265, MAXIMUM AMOUNT OF DATA     X
                  MAXLU=64, MAXIMUM LUS ON THIS PU        X
                  MAXOUT=7, MAX SDLC FRAMES BEFORE RESPONSE X
                  PACING=0, PACING SET BY BIND IMAGE       X
                  PASSLIM=8,                                X
                  PUDR=YES,                                  X
                  PUTYPE=2,                                  X
                  RETRIES=(,4,5), 7 RETRY PER SECOND FOR 5 TIMES X
                  ANS=CONTINUE,                             X
                  SRT=(,64),                                 X
                  DISCNT=(NO), (V) VTAM                     X
                  DLOGMOD=D6327802, (V) VTAM               X
                  ISTATUS=INACTIVE, (V) VTAM               X
                  SSCPFM=USSSCS, (V) VTAM                  X
                  USSTAB=US3276, (V) VTAM                  X
                  VPACING=0, (V) VTAM                      X
T14022K1 LU      LOCADDR=2, FIRST LU MUST BE LOCADDR=2    X
                  MODETAB=MT32763,DLOGMOD=D6327803,       X
                  ISTATUS=ACTIVE (V) VTAM
T14022K2 LU      LOCADDR=3,                                  X
                  MODETAB=MT3287, (V) VTAM                 X
                  ISTATUS=ACTIVE (V) VTAM
T14022K3 LU      LOCADDR=4,                                  X
                  MODETAB=MT32763,DLOGMOD=D6327803,       X
                  ISTATUS=INACTIVE (V) VTAM

```

NOTE: In the control unit the duplex switch always must be setup in half duplex.

```

*
*****

```

8815 PU & LU MACRO SPECIFICATIONS FOR SCANMASTER

```

*****
*      PU & LU SPECIFICATION FOR SCANMASTER      *
*****
P14022L  PU      ADDR=D3,
                ANS=CONTINUE,
                MAXDATA=521,
                MAXOUT=7,
                PASSLIM=7,
                VPACING=0,
                PACING=0,
                MODETAB=MT8815,
                ISTATUS=INACTIVE,
                SRT=(,64)
TSM02LU1 LU      LOCADDR=1,
                DLOGMOD=PC060307
*****

```

SWITCHED SPECIFICATIONS FOR SWITCHED LINES

```

*****
*      SNA SWITCHED LINE GROUP                    *
*****
G14S2    GROUP  LNCTL=SDLC,
                DIAL=YES,
                NEWSYNC=NO,
                NRZI=YES,
                PAUSE=1,
                RETRIES=(7,4,5)      7 RETRY PER SECOND FOR 5 TIMES
L14043   LINE   ADDRESS=043,        PHONE NUMBER
                OWNER=M11,
                CLOCKNG=EXT,
                DUPLEX=HALF,
                SPEED=2400,
                ANSWER=ON,           (V) VTAM
                CALL=INOUT,         (V) VTAM
                ISTATUS=ACTIVE      (V) VTAM
P14043A  PU      PUTYPE=(1,2),
                MAXLU=6
*****
*      2ND SNA SWITCHED LINE                      *
*****
L14021   LINE   ADDRESS=021,        PHONE NUMBER
                OWNER=M11,
                CLOCKNG=EXT,
                DUPLEX=HALF,
                SPEED=2400,
                ANSWER=ON,           (V) VTAM
                CALL=INOUT,         (V) VTAM
                ISTATUS=ACTIVE      (V) VTAM
P14021A  PU      PUTYPE=(1,2),
                MAXLU=6
                EJECT
*****
*      GEN-END DELIMITER                          *
*****
                GENEND SCANCTL=(2,3),HSPDSEL=(00111111)
                END

```

NCP MISCELLANEOUS

ICA SPECIFICATION FOR LOCAL TO LOCAL LINK (4331)

```
*****
LXX042  LINE  ADDRESS=042,      TRANSMIT AND RECEIVE ADDRESSES  X
        CLOCKNG=EXT,          MODEM PROVIDES CLOCKING        X
        DUPLEX=FULL,          MODEM STRAPPING IS FULL        X
        MONLINK=YES,          MONITOR LINK FOR ACTPU        *
        NEWSYNC=NO,           *
        NRZI=YES,             *
        PAUSE=0.1,            *
        RETRIES=(7,10,5),     *
        SDLCST=(SDLXXPRI,SDLXXSEC), *
        SERVLIM=10,          *
        SPEED=4800,           LINE SPEED IS 4800 BPS        X
        ISTATUS=ACTIVE        INITIAL STATUS
*****
        SERVICE ORDER=(PXX042)  NCPA IS PRIMARY
```

Note: HALF DUPLEX ONLY FOR ICA

ICA PU SPECIFICATION FOR an ADJACENT ICA-4331

```
*****
*      PU MACRO SPECIFICATION FOR THE 4331-ICA      *
*****
PXX042  PU      MAXOUT=7,          MAX PIU'S SENT BEFORE RESP REQ  X
        PASSLIM=7,              *
        PUTYPE=4,                PHYSICAL UNIT AS A 3705      X
        SUBAREA=61,              *
        TGN=5                     TRANSMISSION GROUP 5          X
*****
```

3767 PU/LU SPECIFICATIONS FOR 3767

```
*****
*      PU/LU SPECIFICATIONS FOR 3767
*****
PXX020A PU      ADDR=C1,          CLUSTER ADDRESS = 01        X
        MAXDATA=261,           MAXIMUM AMOUNT OF DATA    X
        MAXLU=64,              MAXIMUM LUS ON THIS PU     X
        MAXOUT=1,              MAX SDLC FRAMES BEFORE RESPONSE X
        PACING=1,              PACING SET BY BIND IMAGE    X
        PASSLIM=1,             *
        PUDR=YES,              *
        PUTYPE=1,              *
        RETRIES=(,4,5),        7 RETRY PER SECOND FOR 5 TIMES X
        MODETAB=MT3767,        *
        SSCPFM=USSSCS          (V) VTAM                    X
TXX020A1 LU     LOCADDR=0,       *
        ISTATUS=INACTIVE       (V) VTAM                    X
*****
```

3775 PU/LU SPECIFICATIONS FOR 3775

```
*****
*      PU/LU SPECIFICATIONS FOR 3775
```

```

*****
PXX020G PU      ADDR=C7,          CLUSTER ADDRESS = 07          X
                MAXDATA=265,      MAXIMUM AMOUNT OF DATA      X
                MAXLU=64,         MAXIMUM LUS ON THIS PU      X
                MAXOUT=7,         MAX SDLC FRAMES BEFORE RESPONSE X
                PACING=0,         PACING SET BY BIND IMAGE     X
                PASSLIM=3,                          X
                PUDR=YES,                          X
                PUTYPE=2,                          X
                VPACING=0
TXX020G1 LU     LOCADDR=1,                          X
                ISTATUS=INACTIVE (V) VTAM
TXX020G2 LU     LOCADDR=2,                          X
                ISTATUS=INACTIVE (V) VTAM
*****

```

3650 PU/LU SPECIFICATIONS FOR 3650

```

*****
*      PU/LU SPECIFICATIONS FOR 3650
*****
PXX111P PU     ADDR=C4,          CLUSTER ADDRESS = 04          X
                MAXDATA=265,      MAXIMUM AMOUNT OF DATA      X
                MAXOUT=7,         MAX SDLC FRAMES BEFORE RESPONSE X
                PACING=(1,1),     PACING SET BY BIND IMAGE     X
                PASSLIM=7,                          X
                RETRIES=(,10,3),  X
                PUTYPE=2,                          X
                VPACING=(2,1)
QEXX111P LU    LOCADDR=1,                          X
                BATCH=YES,        X
                PACING=(7,1),     PACING SET BY BIND IMAGE     X
                VPACING=(7,6),    X
                ISTATUS=INACTIVE (V) VTAM
TXX111P2 LU    LOCADDR=2,                          X
                DATASW=SYSTEM7,MODETAB=MT3650
TXX111P3 LU    LOCADDR=3
TXX111P4 LU    LOCADDR=4
TXX111P5 LU    LOCADDR=5
TXX111P6 LU    LOCADDR=6
TXX111P7 LU    LOCADDR=7
TXX111P8 LU    LOCADDR=8
TXX111P9 LU    LOCADDR=9,PACING=(2,1),VPACING=(3,1)
TXX111PA LU    LOCADDR=10,PACING=(2,1),VPACING=(3,1)
TXX111PB LU    LOCADDR=11,PACING=(2,1),VPACING=(3,1)
TXX111PC LU    LOCADDR=12,PACING=(2,1),VPACING=(3,1)
TXX111PD LU    LOCADDR=13,PACING=(2,1)
TXX111PE LU    LOCADDR=14

```


ACF/VTAM TUNING CONSIDERATIONS

The SNA Problem Determination Guide has a new chapter about ACF/VTAM Buffers and Statistics. See the GG24-1514-1 manual.

ACF/NCP TUNING CONSIDERATIONS

Introduction

Some very brief comments and recommendations about parameters that could affect performance are given here but these parameters MUST BE checked for each particular installation. The following manuals have valuable information about NCP performance:

G320-5854 ACF/NCP Tuning Considerations
G320-5860 Tuning and Problem Analysis for NCP BSC and S/S
G320-5866 Tuning and Problem Analysis for NCP SDLC devices

If you want to tune your NCP parameters the NPA is recommended. Network Performance Analyzer (NPA) is a tool for capacity planning, network tuning and problem determination. It provides information on line utilization, CCU utilization, buffer contents, error counts and traffic statistics which can be used to change NCP parameters. NPA provides statistics on SNA devices and BSC 3270. NPA is integrated into ACF/NCP Version 2.

The ACF/NCP macros and operands which are referenced in this document are:

SDLC lines

BUILD
 BFRS
 DSABLTO
 ENABLTO
 TRANSFR

LINE
 ADDRESS
 DUPLEX
 HDXSP
 PAUSE
 RETRIES
 SERVLIM

SERVICE
 ORDER

PU
 DATMODE
 IRETRY
 MAXOUT
 PASSLIM
 RETRIES

LU
 BATCH

BSC lines

BUILD
 TRANSFR

LINE
CUTOFF
NEGPOLP
PAUSE
POLIMIT
SERVLIM
SERVPRI
SESSION

TERMINAL
XMITLIM

SDLC lines

ADDRESS

Macro= LINE
Default= You need to code it.
Recommendation= (nnn,nnn)
Considerations= This parameter defines the duplex logical link, full duplex link logic is selected when two scanner addresses are defined in the ADDRESS operand. When this happens, concurrent transmit and receive is supported. The first line is for transmit only; the second for receive only. The link scheduler can transmit and receive concurrently, however, not all PUs can transmit and receive concurrently. With two line addresses, the NCP can send to one PU while receiving from the same or a different PU. Check the DUPLEX and DATMODE operands.

BATCH

Macro= LU
Default= NO
Recommendation= YES
Considerations= Affects internal processing.
BATCH=YES logical units are queued following the BATCH=NO logical unit PIUs.

BFRS

Macro= BUILD
Default= 88
Recommendation= 128
Considerations= Affects line response and NCP storage. Segmentation influences buffer size.

DATMODE

Macro= PU
Default= HALF for PU type 1 or 2.
FULL for PU type 4.
Recommendation= FULL
Considerations= Specifies whether the NCP is to communicate in half-duplex or full-duplex data mode with a PU. PUs on a full duplex link which support concurrent transmit and receive should be coded DATMODE=FULL. As an example, the link between two NCPs should have the PU definitions coded DATMODE=FULL. PUs with support for DATMODE=FULL are:
37X5
3776-3
3776-4
3777-3
. . .
PUs type 1 or 2 with DATMODE=HALF are supported by the link scheduler as alternate transmit and receive. The 3270 system does not support DATMODE=FULL. Check the ADDRESS and DUPLEX operands.

DSABLTO

Macro= BUILD
Default= 3
Recommendation= 11.5
Considerations= When a link is disabled, if the 'data set ready' lead does not drop in DSABLTO seconds an error indicator is sent to the host. IBM 386X modems require 11.5 as a minimum.

DUPLEX

Macro= LINE
Default= HALF
Recommendation= FULL
Considerations= Affects line response.
This parameter defines the duplex physical link, full duplex link logic is selected with the ADDRESS operand. DUPLEX=FULL or DUPLEX=HALF defines the interface between the 37X5 line set and the modem, and does not define alternate or concurrent data transfer. Check the ADDRESS and DATMODE operands.

ENABLTO

Macro= BUILD
Default= 3
Recommendation= 11.5
Considerations= When a link is enabled, if the 'data set ready' lead does not turn on in ENABLTO seconds an inoperative SNA command is sent to the host.
IBM 386X modems require 11.5 as a minimum.

HDXSP

Macro= LINE
Default= NO
Recommendation= YES
Considerations= Affects line response.
Use HDXSP=YES if output priority is desired.

IRETRY

Macro= PU
Default= NO
Recommendation= YES
Considerations= Affects line response.
When a timeout (REPLYTO=) occurs following a polling operation, IRETRY=YES immediately repolls the station; IRETRY=NO polls the next station in the service order table and retries the error polling in the next pass of the service order table.

MAXOUT

Macro= PU
Default= 7 if PUTYPE=4 and
1 if PUTYPE=1 or 2.
Recommendation= 7
Considerations= Affects line response.
MAXOUT defines the maximum number of SDLC frames which may be sent to a physical unit before polling that physical unit for a response.
An SDLC frame is either a PIU or PIU segment.

ORDER

Macro= SERVICE
Default= You need code it.
Recommendation= One entry for every PU on that line unless higher input priority wanted.
Considerations= Affects line response.
Point-to-Point and PU type 4 require an order even though only one entry is present.

PASSLIM

Macro= PU
Default= 254 if PUTYPE=4 and
1 if PUTYPE=1 or 2.
Recommendation= 7
Considerations= Affects line response.
PASSLIM=MAXOUT=7 gives the best overall response for a large variety of messages and different PU types.
PASSLIM defines the maximum number of SDLC frames which may be sent to a physical unit before selecting the next entry in the service order table.

PAUSE

Macro= LINE
Default= 0.2
Recommendation= 0.8
Considerations= Affects line response and NCP cycles.
This operand specifies the average duration of the polling cycle. The polling cycle extends from the moment the NCP examines the first entry in the service order table to the moment polling next begins at the same entry. It includes time for polling, reading and writing to the terminals on the line. If the time expended in a complete polling cycle equals or exceeds the PAUSE time the next polling cycle begins immediately. If the time expended in a complete polling cycle is less than PAUSE time, the beginning of the next polling cycle is deferred until PAUSE seconds have elapsed since the beginning of the cycle just completed. The PAUSE does not affect output, output is always sent as it arrives.
This operand is intended to provide a delay for nonproductive polling. The PAUSE value should be selected relative to the number of polled devices in the service order table and the time required to transmit a polling frame and receive a response. The delay provides additional 37X5 machine cycles for processing rather than nonproductive polling. Use it if you have high NCP cycles utilization and low line utilization.

RETRIES

Macro= LINE
Default= (7,0,0)
Recommendation= default
Considerations= Affects line response.
Excessive retries decrease permanent link error notification and increases NCP overhead if too many retries.
Some devices are time dependent limiting retries.
(3600, 3790, 4700, 8100).
RETRIES=(m,t,n)
m=number of attempts for error recovery on transmissions.
t=time of pause after retry.
n=the number of times the retry sequence will be made.
As an example, assume a frame transmission time of 0.5 seconds, RETRIES=(7,5,6) and an error transmission occurs. The message is retransmitted 7 times(7 x 0.5 = 3.5 sec), plus a pause of 5 sec. This sequence is repeated 6 times (6 x (3.5 + 5) = 51 sec). Therefore, the total time required for a permanent error would be:
0.5 (first transmit) + 8.5 (first recovery) + 51 (retries) = 60 seconds.
During this retry sequence time delay, other stations on the link are serviced.

SERVLIM

Macro= LINE
Default= 4
Recommendation= default
Considerations= Affects line response.
If PU is powered off then contact polling is suspended for the duration of replyto.

TRANSFR

Macro= BUILD
Default= TRANSFR is an important performance parameter. If you omit it NCP computes the data transfer limits in the following way:
TRANSFR=(MAXBFRU x UNITSZ - BFRPAD)/BFRS
This is calculated by each HOST macro in the NCP.
Example(taking the N139F3Q):
HOST M12: TRANSFR=(29 x 132 - 0)/128 = 29
HOST M11: TRANSFR=(25 x 152 - 0)/128 = 29
Then TRANSFR=29, but if the values are different, NCP will take the lowest value.

Recommendation= default
Considerations= Affects line response and HOST storage. Each inbound SDLC PIU or PIU segment must be contained within the number of NCP buffers specified in the TRANSFR operand. If the incoming frame will not fit in TRANSFR buffers a permanent physical unit error indicating a physical unit failure is sent to the owning SSCP. TRANSFR defines the quantity of NCP buffers and BFRS defines the size of each buffer.

BSC lines

CUTOFF

Macro: LINE
Default= NO
Recommendation= 1
Considerations= Affects NCP cycles.
CUTOFF=1 and TRANSFR=3 is required for 3270 BSC
cluster control units lines.
If these values are not used, it is possible to create a
'HOT I/O' situation that can either bring down VTAM or NCP.

NEGPOLP

Macro: LINE
Default= NONE
Recommendation= 0.2
Considerations= Affects NCP cycles.
NEGPOLP > 0.3 reduces line utilization to a
minimum (line response increases).

PAUSE

Macro: LINE
Default= 0
Recommendation= 0.2
Considerations= Saves NCP cycles.

POLIMIT

Macro: LINE
Default= (1,NOWAIT)
Recommendation= (1,QUEUE)
Considerations= Affects line response.
VTAM uses QUEUE only.

SERVLIM

Macro: LINE
Default= Half the entries in the service order table.
Recommendation= default
Considerations= Affects line response.
A low value provides better response on existing sessions. With a high value the service seeking is optimized.

SERVPRI

Macro: LINE
Default= OLD
Recommendation= default
Considerations= Affects line response and NCP cycles.
SERVPRI=OLD give better line response.

SESSION

Macro: LINE
Default= 1
Recommendation= Use the sum of all the terminals and clusters on the line.
Considerations= Affects line response.

XMITLIM

Macro: TERMINAL
Default= NO
Recommendation= 1
Considerations= Affects line response.
Do not use default.

INTRODUCTION

Dynamic reconfiguration provides the ability for ACF/VTAM R3, ACF/VTAM V2, ACF/NCP/VS R3 and ACF/NCP/VS V2 to add and delete type 1 and type 2 physical units and logical units on an SDLC non switched line without going through an NCP generation. Dynamic reconfiguration is only for the addition or deletion of type 1 and type 2 physical units and logical units on a non switched SDLC link.

Limitations: Dynamic reconfiguration does not provide any facility for adding lines, does not support BSC/SS devices, and does not support programmed resources (GROUP LNCTL=SDLC, VIRTUAL=YES) of the user attachment facility.

To dynamically reconfigure the ACF/NCP/VS the user must define to ACF/VTAM a dynamic reconfiguration data set (DRDS) consisting of ADD and/or DELETE statements and their associated PU and LU macros. The reconfiguration information in this DRDS provides ACF/VTAM the definitions to be added or deleted.

When ACF/VTAM is to activate a dynamic reconfiguration defined PU or LU, commands are issued to the NCP to allocate a control block from the dynamic reconfiguration pool, initialize the control block, and process an activation command. When ACF/VTAM is to deactivate a dynamic reconfiguration defined PU or LU, commands are issued to the NCP to deactivate the session and return the control block to the dynamic reconfiguration pool.

Each time a dynamic reconfiguration (DR) defined device is activated, an NCP control block and network address are allocated. Each time a DR defined device is deactivated the NCP control block and network address are released. A released control block is added to the end of the control block pool, and allocated control blocks are assigned from the first in the pool. Tracing: as a consequence of the technique used to allocate and free control blocks from the DR pool traces will normally reflect a different network address from activation to activation.

The ADD in DR is used to add devices in ACF/VTAM which were not defined at NCP generation. The DELETE is used to delete devices in ACF/VTAM which were defined at generation or added by DR.

At activation of a DR resource the host sends a Request Network Address Assignment (RNAA) command to NCP for a control block to be allocated. A Set Control Vector PU command from the host provides the initialization values for a PU. A Set Control Vector LU command from the host provides the initialization values for an LU. After the control block is initialized normal session commands flow.

At deactivation of a DR resource the host sends normal session deactivation commands followed by a Free Network Address (FNA) command. The Free Network Address returns the NCP control block to the DR pool. A generated NCP resource to be deleted (DELETE) is deleted after the host activates the NCP using a Free Network Address command.

ACF/VTAM DYNAMIC RECONFIGURATION

The definition of a dynamic reconfiguration is provided to ACF/VTAM in source statements called a Dynamic Reconfiguration Data Set (DRDS). When a DRDS is activated ACF/VTAM adds or deletes the resources from ACF/VTAM tables. The defined resources are added and deleted from ACF/NCP as ACF/VTAM activates and deactivates the resources.

VBUILD STATEMENT

ACF/VTAM Dynamic Reconfiguration Data Set (DRDS) requires a first statement of:

```
VBUILD TYPE=DR
```

This statement must precede the ADD and/or DELETE statements. Multiple ADD and/or DELETE statements may be defined following the VBUILD statement.

Each time the NCP configuration is changed, a new DRDS should be defined that contains only the current modifications. For operations and control, it is recommended that you do not add and delete the same PU or LU to the network in one DRDS. All deletes should occur before adds in a DRDS. If a device that was added through dynamic reconfiguration is to be deleted, define a new DRDS to delete it; do not put the DELETE statement in the same DRDS as the ADD statement.

ADD STATEMENT

The ADD statement directs the access method to ADD a PU to a defined LINE or an LU to an existing PU. The format of this statement is:

```
ADD TO=label
```

The label operand is the name of the LINE or PU defined in the NCP generation to which the new device will be added.

The TO operand of the ADD statement identifies the LINE or PU label to which the following definitions are to be added. If the TO operand of the ADD statement identifies the label of a PU macro, only ACF/NCP LU definitions may follow the ADD. If the TO operand of the ADD statement identifies the label of a LINE macro, ACF/NCP PU macro must immediately follow the ADD and LU definitions for that PU are coded following the PU.

The PU and LU definitions are positional. All statements following an ADD statement are to be added to the TO operand definition. LU definitions which follow a PU are to be added to the PU which they follow.

All operands of PUs and LUs should be coded for ADD functions. The default operand value may be used.

Note: Promoted operands (to GROUP, LINE, or PU) are valid at ACF/NCP generation only, and do not apply to resources added by dynamic reconfiguration. All operands must be coded or default values are used.

DELETE STATEMENT

The DELETE statement tells the access method to delete a PU or LU from a defined LINE or PU. PUs and LUs are added to NCP by activation and deleted by inactivation. A PU to be deleted from VTAM must be inactive (deleted in NCP) and all LUs associated with the PU must be inactive. When a PU is deleted all LUs associated with that PU are also deleted. An LU to be deleted must be inactive.

The DELETE requires the deleted device(s) to be inactive (deleted in the NCP). A device added by DR is deleted from the NCP when it becomes inactive, and deleted from VTAM when the DELETE is processed.

The format of the DELETE statement is:

```
DELETE FROM=label
```

The FROM operand of the DELETE statement identifies the LINE or PU label from which the following definitions are to be deleted. If the FROM oper-

and of the DELETE statement identifies the label of a PU macro, only LU definitions may follow the DELETE. If the FROM operand of the DELETE statement identifies the label of a LINE macro, PU and LU definitions may follow the DELETE. When a PU is deleted, all LUs associated with that PU are automatically deleted. It is not necessary to include LU definitions following a PU which is to be deleted.

Operands are optional on PUs and/or LUs to be deleted.

Additional information on ACF/VTAM dynamic reconfiguration may be found in:

ACF/VTAM V2

Advanced Communications Function for VTAM (ACF/VTAM) Version 2
Planning and Installation Reference
(SC27-0610), Chapter 3, Planning for ACF/VTAM Network Definition.

ACF/NCP

ACF/NCP/VS Installation
(SC30-3167), Chapter 2.

ACF/NCP DYNAMIC RECONFIGURATION

ACF/NCP dynamic reconfiguration requires user defined pools of null control blocks for PUs and LUs to be allocated as requested by ACF/VTAM.

ACF/NCP must be defined to provide for dynamic reconfiguration resources. The generated lines, physical units, service order tables, etc., must provide for resources to be added.

At activation of a DR resource the host sends a Request Network Address Assignment (RNAA) command to NCP for a control block to be allocated. A Set Control Vector PU command from the host provides the initialization values for a PU. A Set Control Vector LU command from the host provides the initialization values for an LU. After the control block is initialized normal session commands flow.

At deactivation of a DR resource the host sends normal session deactivation commands followed by a Free Network Address (FNA) command. The Free Network Address returns the NCP control block to the DR pool. A generated NCP resource to be deleted (DELETE) is deleted when the host activates the NCP using a Free Network Address command.

The following material is divided into three sections; an NCP dynamic reconfiguration overview, a more detailed coding reference, and last some recommended coding values.

NCP DYNAMIC RECONFIGURATION OVERVIEW

The following identifies the NCP macros and operands which provide support for adding, deleting, and moving resources in the NCP. Additional information on each macro and operand follows this list.

BUILD	RESOEXT,	defines network addresses for generated devices which are to be deleted and inserted into the DR pool
	DR3270	defines code support for SDLC 3270 model 11 and 12 (type 1)
PUDRPOOL		the PUDRPOOL adds the executable code for dynamic reconfiguration

	NUMBER, MAXLU	defines the quantity of DR PUs in pool defines the maximum LUs per PU
LUDRPOOL	NUMTYP1 NUMTYP2	defines the quantity of LUs in the pool for type 1 PUs defines the quantity of LUs in the pool for type 2 PUs
LINE	MAXPU	defines the maximum PUs on this line
SERVICE	MAXLIST	defines the maximum PUs in the service order table for this line
PU	MAXLU PUDR	defines the maximum LUs on this PU defines if a generated PU is available to be deleted by DR
LU	LUDR	defines if a generated LU is available to be deleted by DR

For NCP to add a PU to a predefined link:

1. A PU must be available in the PU pool (PUDRPOOL macro).
2. The maximum PUs for this line may not exceed the MAXPU operand value of the LINE macro.
3. The maximum entries in the service order table for this line may not exceed the MAXLIST operand of the SERVICE macro.

For NCP to add an LU to a PU:

1. An LU for the correct type of PU (type 1 or type 2) must be available in the pool (LUDRPOOL macro). The NUMTYP1 operand defines null LUs for type 1 PUs. The NUMTYP2 operand defines null LUs for type 2 PUs.
2. The maximum LUs for this PU must not exceed the value in the MAXLU operand of the PU macro.

For NCP to release a generated LU to the LU dynamic reconfiguration pool:

1. The LU must have an operand of LUDR=YES (default).
2. A new network address must be assigned to the LU from the network address pool (BUILD macro RESOEXT operand) at eight bytes per entry.

For NCP to release a generated PU to the PU dynamic reconfiguration pool:

1. The PU must have an operand of PUDR=YES (default).

Note: A PU coded PUDR=YES requires a MAXLU operand equal to or greater than the PUDRPOOL macro MAXLU operand at eight bytes per entry.
2. A new network address must be assigned to the PU from the network address pool (BUILD macro RESOEXT operand) at eight bytes per entry.

NCP DYNAMIC RECONFIGURATION CODING REFERENCE

The following macros and operands define the dynamic reconfiguration facilities:

BUILD RESOEXT=value,
DR3270=YES|NO

When a generation-defined physical or logical unit is deleted, the generated network address is lost. In order for that resource to be

reused, the generation-defined network address must be replaced by a new network address.

The RESOEXT operand defines the quantity of additional network addresses to be assigned to a generation-defined resource when it is released by dynamic reconfiguration. The resource control block is added to the end of the pool of dynamic reconfiguration control blocks under the new network address. If all network addresses are depleted, generation-defined resources can still be deleted but not reused.

Additional network addresses are only required for deleted resources which were originally generation-defined resources and are to be added to a DR pool. A resource originally in a dynamic reconfiguration pool or a generated-resource released into the pool with a new address, maintains the same network address.

Each additional network address requires eight bytes of storage.

The DR3270 operand specifies whether the NCP is to include SDLC model 11 and 12 terminal support when dynamic reconfiguration is supported and no type 1 PU 3270s are being defined during system generation. This operand should be coded DR3270=NO if you will not add type 1 3270 support by dynamic reconfiguration. DR3270=YES is the default. If BNNSUP=3270 is coded in a PU macro, 3270 support is always included regardless of the value coded for this operand.

PUDRPOOL NUMBER=count,
MAXLU=count

The PUDRPOOL macro definition causes:

1. the executable code for dynamic reconfiguration to be included in the NCP generation;
2. generates a pool of physical unit control blocks for dynamic reconfiguration (NUMBER);
3. generates an LU vector table per physical unit control block of MAXLU length.

When PUs which were obtained from the pool are deleted, the storage allocated for their control blocks is returned to the pool for later use. Generated PUs which are deleted are placed in the PU pool if a new network address is available (BUILD macro RESOEXT operand).

Only one PUDRPOOL macro is allowed in a generation. It must precede the first GROUP macro.

The NUMBER operand specifies the number of physical units to be included in the PU pool. The MAXLU operand defines the maximum number of logical units which may be added to a PU which is allocated from the PU pool. Each PU requires 128 bytes for the common physical unit block (CUB) plus eight bytes for each entry as specified in the MAXLU operand.

Note: The MAXLU operand defines the minimum number of LU entries required for a generated PU which is available to be released to the PU pool. A PU coded or defaulted to PUDR=YES must be able to be deleted into the PUDRPOOL with the defined LU capacity as coded on the PUDRPOOL. Each entry is eight bytes. As an example: PUDRPOOL MAXLU=16, and SDLC 3767s defined PU LUDR=YES generates 15 additional eight byte entries per PU.

LUDRPOOL NUMTYP1=count,
NUMTYP2=count

The LUDRPOOL macro defines two pools of logical unit control blocks which are available for dynamic reconfiguration or for switched SDLC lines. One pool is for LUs added to type 1 physical units and the other is for LUs added to type 2 physical units. These logical unit control blocks are used when an LU is:

1. added to a physical unit by the dynamic reconfiguration process,
or

2. allocated for the duration of a switched SDLC connection.

When LUs which were obtained from the pool are deleted, the storage allocated for their control blocks is returned to the pool for later use. Generated LUs which are deleted are placed in the LU pool if a new network address is available (BUILD macro RESOEXT operand).

Only one LUDRPOOL macro is allowed in a generation. It must precede the first GROUP macro.

The NUMTYP1 operand specifies the number of logical units to be included in the LU pool for type 1 PUs. Each logical unit for type 1 PUs requires 94 bytes of storage.

The NUMTYP2 operand specifies the number of logical units to be included in the LU pool for type 2 PUs. Each logical unit for type 2 PUs requires 80 bytes of storage.

LINE MAXPU=count

The MAXPU operand defines the maximum number of physical units that may be associated with the SDLC nonswitched link. If this operand is omitted, count is assumed to equal the number of PU macros following the LINE macro. Before a physical unit may be added to a non-switched SDLC line:

1. a control block must be available from the PUDRPOOL macro pool;
2. an available MAXPU entry in the LINE macro must be available;
3. an available MAXLIST entry in the SERVICE macro must be available.

The minimum value for this operand is the number of PU macros that follow the LINE macro. The maximum value is 255. Each entry requires eight bytes of storage per PU on this line.

Note: If the PU macro is coded or defaulted to PUDR=YES, allowing the PU to be released into the PU pool, the MAXPU value must be equal to or greater than the PUDRPOOL macro MAXPU operand value at eight bytes per entry per PU.

SERVICE MAXLIST=number

The MAXLIST operand specifies the maximum number of entries in the service order table. The maximum value is 256. If the number you specify in the MAXLIST exceeds the number of entries you code in the ORDER operand, you may add more entries (up to the MAXLIST limit) by dynamic reconfiguration.

If this operand is omitted, count is assumed to equal the number of coded entries in the ORDER operand. Before a physical unit may be added to a non-switched SDLC line:

1. a control block must be available from the PUDRPOOL macro pool;
2. an available MAXPU entry in the PU macro must be available;
3. an available MAXLIST entry in the SERVICE macro must be available.

The minimum value for this operand is the number of PU macros that follow the LINE macro. The maximum value is 255. Each service order table entry requires four bytes of storage.

When a physical unit is deleted from a line, all entries for that physical unit in the service order table are released and are available for additions under dynamic reconfiguration.

The ORDER operand of the SERVICE macro may be generated with duplicate PU labels. When physical units are deleted by dynamic reconfiguration all ORDER operand entries are deleted. When a physical unit is added, the added PU is added once as the last entry in the service

order table. You may not provide for multiple service order table entries for PUs added with dynamic reconfiguration.

PU MAXLU=count,
PUDR=YES|NO

The MAXLU operand defines the maximum number of logical units that may be associated with the physical unit. If this operand is omitted and PUDR=YES (or defaulted to YES), count is assumed to equal the MAXLU operand of the PUDRPOOL macro. If this operand is omitted and PUDR=NO, count is assumed to equal the number of LU macros following the PU macro. Additional logical units may be added to this physical unit up to count minus 1 for a type 1 PU and up to count for a type 2 PU.

Note: Most physical units and logical units are relatively permanent. Coding PUDR=NO at the GROUP level eliminates generation warning messages of MAXLU not equaling the PUDRPOOL MAXLU and result in a storage saving of eight bytes per entry forcing the LU vector table to PUDRPOOL MAXLU value.

Before a logical unit may be added to a physical unit:

1. a control block of the correct type (type 1 or type 2) must be available from the LUDRPOOL macro pool;
2. an available MAXLU entry in the PU macro must be available.

The PUDR operand specifies whether the physical unit can be deleted from the network by using the dynamic reconfiguration function. If PUDR=YES is specified (or defaulted), the value specified in the MAXLU operand must be equal to or greater than the MAXLU value in the PUDRPOOL macro. Each additional MAXLU entry requires eight bytes of storage.

For NCP to release a generated PU to the PU dynamic reconfiguration pool:

1. The PU must have an operand of PUDR=YES (default).

Note: A PU coded PUDR=YES requires a MAXLU operand equal to or greater than the PUDRPOOL macro MAXLU operand at eight bytes per entry.

2. A new network address must be assigned to the PU from the network address pool (BUILD macro RESOEXT operand) at eight bytes per entry.

LU LUDR=YES|NO

For NCP to release a generated LU to the LU dynamic reconfiguration pool:

1. The LU must have an operand of LUDR=YES (default).
2. A new network address must be assigned to the LU from the network address pool (BUILD macro RESOEXT operand) at eight bytes per entry.

NCP DYNAMIC RECONFIGURATION RECOMMENDED CODING

Recommended values for ACF/NCP/VS macros and operands defining dynamic reconfiguration are:

BUILD

RESOEXT=n where n equals the number of expected DELETES of PUs and/or LUs which will be reused by ADDS (eight bytes per entry).

DR3270=NO unless SDLC 3270 model 11 or 12 will be added by dynamic reconfiguration

PUDRPOOL

NUMBER=n where n equals the number of expected ADDs of PUs and/or LUs not including those available by DELETE and a new address from RESOEXT operand of the BUILD macro (128 bytes per entry plus (MAXLU * 8)).

MAXLU=n where n equals the maximum number of LUs required by a PU added by dynamic reconfiguration (eight bytes per entry).

LUDRPOOL

NUMTYP1=n where n equals the number of expected ADDs of LUs to type 1 PUs (94 bytes per entry).

NUMTYP2=n where n equals the number of expected ADDs of LUs of type 2 PUs (80 bytes per entry).

LINE

MAXPU=n where n equals the number of expected PUs to be on this line (eight bytes per entry).

SERVICE

MAXLIST=n where n equals the number of expected PU entries in the service order table for this line (four bytes per entry).

PU

PUDR=NO unless you expect to delete the PU from the generated position and have provided for reuse in the BUILD macro RESOEXT operand.

MAXLU=n where n equals the number of expected LUs to be on this PU (eight bytes per entry). If PUDR=YES (or defaulted) MAXLU must equal or exceed the PUDRPOOL macro MAXLU operand.

LU

LUDR=NO unless you expect to delete the LU from the generated position and have provided for reuse in the BUILD macro RESOEXT operand.

ACF/NCP/VS RELEASE 3

Additional information on ACF/NCP/VS Release 3 dynamic reconfiguration may be found in ACF/NCP/VS Network Control Program System Support Programs Installation SC30-3142:

Chapter 2: Functions for SDLC Resource, Dynamic Reconfiguration

Chapter 5: NCP Generation Macro Instructions

ACF/NCP/VS VERSION 2

Additional information on ACF/NCP/VS Version 2 dynamic reconfiguration may be found in ACF/NCP/VS Installation SC30-3167

DYNAMIC RECONFIGURATION SUMMARY

Dynamic reconfiguration is supported at Release 3 and Version 2 of ACF/VTAM and ACF/NCP/VS. Dynamic reconfiguration requires planning for ACF/VTAM control blocks and ACF/NCP/VS control block pools, a network address pool, and network definitions which allow resources to be added to specific lines or physical units.

DYNAMIC RECONFIGURATION EXAMPLES

DELETE and ADD 3274

```
DRDSMOD1 VBUILD TYPE=DR
DELLU    DELETE FROM=P140A0F
T140A0F5 LU
ADDLU    ADD      TO=P140A0F
T140A0F5 LU      LOCADDR=6,USSTAB=US3276,          X
                  MODETAB=MT3274A3,DLOGMOD=GMOD3E, X
                  ISTATUS=ACTIVE      (V) VTAM
```

DELETE and ADD 3276

```
DRDS3276 VBUILD TYPE=DR
DELPUA   DELETE FROM=L14022
P14022C  PU
ADDPU6   ADD      TO=L14022
P14022C  PU      ADDR=C3,          3276 ADDRESS='C' (EBCDIC)      X
                  MAXDATA=265,    MAXIMUM AMOUNT OF DATA      X
                  MAXOUT=7,        MAX SDLC FRAMES BEFORE RESPONSE X
                  PACING=0,        PACING SET BY BIND IMAGE      X
                  PASSLIM=8,
                  PUTYPE=2,
                  RETRIES=(,1,4),  4 RETRIES, 1 SECOND BETWEEN X
                  DISCNT=(NO),     (V) VTAM                      X
                  ISTATUS=ACTIVE,  (V) VTAM                      X
                  SSCPFM=USSSCS,   (V) VTAM                      X
                  USSTAB=US3276,   (V) VTAM                      X
                  VPACING=0        (V) VTAM
T14022C1 LU  LOCADDR=2,          FIRST LU MUST BE LOCADDR=2  X
                  MODETAB=MT32763,DLOGMOD=T3278M3, X
                  USSTAB=US3276,   (V) VTAM                      X
                  SSCPFM=USSSCS,   (V) VTAM                      X
                  ISTATUS=ACTIVE   (V) VTAM                      X
```

DELETE and ADD 5520

```
DR5520  VBUILD TYPE=DR
*
DELPUR  DELETE FROM=L140A1
PDR5520  PU
*
ADDPUR  ADD    TO=L140A1
PDR5520  PU    ADDR=C1,
              ISTATUS=ACTIVE,
              MAXDATA=265,
              MAXOUT=3,
              MODETAB=MT5520A,
              SSCPFM=FSS,
              PASSLIM=3,
              PACING=3,
              VPACING=3
*
TAS01LU1 LU    LOCADDR=1,DLOGMOD=CICS
TAS01LU2 LU    LOCADDR=2,DLOGMOD=T3278
TAS01LU3 LU    LOCADDR=3,DLOGMOD=T3278
TAS01LU4 LU    LOCADDR=4,DLOGMOD=T3278
*
```

X
X
X
X
X
X
X

DELETE and ADD 8100

```
DRCXAB02 VBUILD TYPE=DR
DELLU    DELETE FROM=P14020B
TEXTAB02 LU
ADDAB02  ADD    TO=P14020B
TEXTAB02 LU    LOCADDR=2,
              MODETAB=MTDPCX,
              DLOGMOD=PC000000,
              VPACING=0,
              PACING=0,
              ISTATUS=ACTIVE
              VPACING SET IN MODE TABLE (PSNDPAC).
              PACING SET IN MODE TABLE (SRCVPAC).
```

X
X
X
X
X

ACF/VTAM DYNAMIC RECONFIGURATION COMMAND

To dynamically reconfigure an NCP enter:

VARY NET,DRDS,ID=drname

drname specifies the name of a dynamic reconfiguration file (A member or book name).

For example:

```
VARY NET,DRDS,ID=DRDSMOD1
VARY NET,DRDS,ID=DRCXAB02
VARY NET,DRDS,ID=DRDS3276
VARY NET,DRDS,ID=DR5520
```

REFERENCES

ACF/VTAM V2

Advanced Communications Function for VTAM Version 2 SC27-0610

Planning and Installation Reference

ACF/VTAM V1

ACF/VTAM Installation and Planning Reference (MVS and VSE) SC27-0584

ACF/VTAM SDLC DIAL Operation

As there is an upsurge of interest in SDLC dial, this section is an attempt to supplement and clarify information in the SRLs.

The main description of SDLC switched operation is given in the ACF/VTAM R2 Pre-Installation Planning SRLs (DOS SC27-0465, OS SC27-0469). Appendix C contains examples of dial-in and dial-out procedures.

In general, VTAM protects the application from knowing whether a terminal is on a leased or dial line (or local). If, however, the application is initiating sessions (using OPNDST ACQUIRE or SIMLOGON macros), it should be aware of the number of ports available.

Switched PUs may be specified with or without PATH statements. For dial-out to be possible, PATH statements (which give telephone numbers) must be included in the definition. Dial-in is straightforward. The switched major node, PU and LU(s), must have been activated before the connection is made (ISTATUS or V ACT). Disconnection is discussed later.

Dial-out is less clear in the SRLs. Again the major node, PU and LU(s), must be activated. VTAM will cause a dial-out (manual or auto) under the following circumstances:

- 1. OPNDST ACQUIRE macro is executed
- or 2. SIMLOGON macro is executed
- or 3. V LOGON is entered by the VTAM operator
- or 4. LOGAPPL is specified in the LU definition

In cases 3 and 4, dialing is not initiated until a SETLOGON START macro has been issued.

In cases 1 and 2, the macro does not complete until dialing has taken place. If it fails in 1, OPNDST, the RTNCD/FDBK2 is 16/1. If dialing fails in 2, SIMLOGON, the RTNCD/FDBK2 is 16/0. In 3 and 4 dialing occurs before the LOGON exit is driven. Failure, or lack of a port, may cause messages of the type IST120,121,342,343 (speculation).

In the event of a line error from which the NCP does not recover, VTAM drives the NSEXIT/LOSTERM exit and does not attempt further recovery.

DISCONNECTION

When using switched lines for sessions, specification of DISCNT=YES in the switched major node will result in disconnection as soon as a session ends if no other sessions exist. To keep the connection, DISCNT=NO should be specified. A good description is given in the ACF/VTAM Concepts SRL GC27-0463 'Holding the physical unit's physical connection'.

In general DISCNT=NO results in disconnection if, when the last session ends,

- at least one USS LOGOFF command has been entered specifying HOLD=NO, and
- no USS LOGOFF command has been entered specifying HOLD=YES.

HOLD=YES is the default.

If all sessions are ended by the application and not by USS logoff, a remote user could control disconnection by entering LOGOFF HOLD=NO when not in session. Then on a subsequent (last) session end, disconnection would occur.

For LUs using Terminate-Self rather than USS logoff, the 'last/not last' indicator corresponds to HOLD=NO/YES. There is not a corresponding default - the setting will depend on the control unit.

The use of CLSDST PASS or SIMLOGON prevents DISCNT=YES from causing disconnection when the only remaining session ends.

Note: The ACF/VTAM Installation manual Appendix C describes the definition and operation of Switched SNA major nodes.

LINE GROUP SPECIFICATIONS - SWITCHED

```

*****
* CHECK THE N14BF3J NCP SOURCE IN CHAPTER 17 *
*****
*
*          SWITCHED DEFINITION
*
*****
G14S2      GROUP LNCTL=SDLC,
            DIAL=YES,
            NEWSYNC=NO,
            NRZI=YES,
            PAUSE=1,
            RETRIES=(7,4,5)      7 RETRY PER SECOND FOR 5 TIMES
L14043     LINE ADDRESS=043,
            CLOCKNG=EXT,
            DUPLEX=HALF,
            SPEED=2400,
            ANSWER=ON,           (V) VTAM
            CALL=INOUT,         (V) VTAM
            ISTATUS=ACTIVE      (V) VTAM
P14043A    PU  PUTYPE=(1,2),
            MAXLU=6
*****

```

DPCX SWITCHED DEFINITION

```

*****
* VTAM SWITCHED MAJOR NODE DEFINITION FOR DPCX. *
*
* THIS DEFINES THE DPCX/DOSF/DISOSS SYSTEM WITH SUBSYSTEM ID 'AB' *
*
*****
*
SWDPCX     VBUILD TYPE=SWNET
*
SWTEXTAB   PU  ADDR=C1,           MUST MATCH SYSIMOD (X'C1' = DEC 193)X
            IDBLK=006,           IF IDBLK=006 & IDNUM=000AB, SYSIMOD X
            IDNUM=000AB,         STATION ID MUST BE '0200006000AB'X
            ISTATUS=ACTIVE,
            MAXOUT=7,
            PASSLIM=7,
            PACING=0,           PACING CONTROLLED BY MODE TABLE
            VPACING=0,         VPACING DITTO
            MODETAB=MTDPCX
*
INTXAB01   LU  LOCADDR=1           SSS
*
TEXTAB10   LU  LOCADDR=10         SYSINFOREF
TEXTAB11   LU  LOCADDR=11         DSX
TEXTAB12   LU  LOCADDR=12         HCF
TEXTAB13   LU  LOCADDR=13         HCF
TEXTAB14   LU  LOCADDR=14         HCF
TEXTAB15   LU  LOCADDR=15         DIF
TEXTAB16   LU  LOCADDR=16         DIF
*
TEXTAB18   LU  LOCADDR=18         RJE
TEXTAB19   LU  LOCADDR=19         RJE
TEXTAB20   LU  LOCADDR=20         RJE
TEXTAB21   LU  LOCADDR=21         RJE
TEXTAB22   LU  LOCADDR=22         RJE
*

```



```

TEXTAB23 LU      LOCADDR=23          DISOSS
TEXTAB24 LU      LOCADDR=24          DISOSS
TEXTAB25 LU      LOCADDR=25          DISOSS
TEXTAB26 LU      LOCADDR=26          DISOSS
TEXTAB27 LU      LOCADDR=27          DISOSS
TEXTAB28 LU      LOCADDR=28, ISTATUS=INACTIVE DISOSS
TEXTAB29 LU      LOCADDR=29, ISTATUS=INACTIVE DISOSS
TEXTAB30 LU      LOCADDR=30, ISTATUS=INACTIVE DISOSS
TEXTAB31 LU      LOCADDR=31, ISTATUS=INACTIVE DISOSS
TEXTAB32 LU      LOCADDR=32, ISTATUS=INACTIVE DISOSS
TEXTAB33 LU      LOCADDR=33, ISTATUS=INACTIVE DISOSS
TEXTAB34 LU      LOCADDR=34, ISTATUS=INACTIVE DISOSS

```

```

*
**** DSC FOR DPA-ATTACHED DEVICES.

```

```

*
TEXTAB45 LU      LOCADDR=45, MODETAB=MTDPCX
TEXTAB46 LU      LOCADDR=46, MODETAB=MTDPCX
TEXTAB47 LU      LOCADDR=47, MODETAB=MTDPCX, ISTATUS=INACTIVE
TEXTAB48 LU      LOCADDR=48, MODETAB=MTDPCX, ISTATUS=INACTIVE
TEXTAB49 LU      LOCADDR=49, MODETAB=MTDPCX

```

```

*
**** DSC FOR LINK- OR LOOP-ATTACHED DEVICES.

```

```

*
TEXTAB50 LU      LOCADDR=50, MODETAB=MTCXDAL
TEXTAB51 LU      LOCADDR=51, MODETAB=MTCXDAL
TEXTAB52 LU      LOCADDR=52, MODETAB=MTCXDAL, ISTATUS=INACTIVE
TEXTAB53 LU      LOCADDR=53, MODETAB=MTCXDAL, ISTATUS=INACTIVE
TEXTAB54 LU      LOCADDR=54, MODETAB=MTCXDAL, ISTATUS=INACTIVE
TEXTAB55 LU      LOCADDR=55, MODETAB=MTCXDAL, DLOGMOD=BULKPR1
TEXTAB56 LU      LOCADDR=56, MODETAB=MTCXDAL, ISTATUS=INACTIVE
TEXTAB57 LU      LOCADDR=57, MODETAB=MTCXDAL, ISTATUS=INACTIVE
TEXTAB58 LU      LOCADDR=58, MODETAB=MTCXDAL, ISTATUS=INACTIVE
TEXTAB59 LU      LOCADDR=59, MODETAB=MTCXDAL, ISTATUS=INACTIVE
TEXTAB60 LU      LOCADDR=60, MODETAB=MTCXDAL, ISTATUS=INACTIVE
TEXTAB61 LU      LOCADDR=61, MODETAB=MTCXDAL, ISTATUS=INACTIVE
TEXTAB62 LU      LOCADDR=62, MODETAB=MTCXDAL, ISTATUS=INACTIVE
TEXTAB63 LU      LOCADDR=63, MODETAB=MTCXDAL, ISTATUS=INACTIVE
TEXTAB64 LU      LOCADDR=64, MODETAB=MTCXDAL, ISTATUS=INACTIVE

```

```

*
*****

```

NTO SWITCHED DEFINITION

```
*****
SWNT024  VBUILD TYPE=SWNET                                *NTO*
P24NT0   PU      ADDR=01,      DISPLAYWRITER S/S AS TWX VIA NTO *NTO*X
          DISCNT=YES,        DROP CONNECTION WHEN SESSIONS ENDS *NTO*X
          IDBLK=888,          *NTO*X
          IDNUM=88888,        *NTO*X
          MAXDATA=268,        *NTO*X
          MAXPATH=0,         *NTO*X
          PUTYPE=1,           *NTO*X
          PACING=(1,1),       *NTO*X
          SSCPFM=USSNT0      *NTO*
T24NT0   LU      LOCADDR=0,   *NTO*X
          MODETAB=MT6580,     *NTO*X
          DLOGMOD=VCNATWX,    *NTO*X
          PACING=(1,1),       *NTO*X
          VPACING=2,          *NTO*X
          TERM=TWX            *NTO*
P24NT01  PU      ADDR=02,      DISPLAYWRITER S/S AS 2741 VIA NTO *NTO*X
          IDBLK=007,          *NTO*X
          IDNUM=00001,        *NTO*X
          MAXDATA=268,        *NTO*X
          MAXPATH=0,         *NTO*X
          PUTYPE=1,           *NTO*X
          PACING=(1,1),       *NTO*X
          SSCPFM=USSSCS      *NTO*
T24NT01  LU      LOCADDR=0,   *NTO*X
          PACING=(1,1),       *NTO*X
          VPACING=2,          *NTO*X
          MODETAB=MT6580,     *NTO*X
          DLOGMOD=VCNA2741,   *NTO*X
          TERM=2741          *NTO*
*****
```

PC SWITCHED DEFINITION

```
*****
SWPC  VBUILD TYPE=SWNET,                                     X
      MAXNO=1,                                             X
      MAXGRP=1
*****
*
*      PU      MACRO SPECIFICATION FOR PC
*
*****
PCSW  PU      ADDR=C3,          3270 ADDRESS='C' (EBCDIC)   X
      IDBLK=03D,          03D = PC                         X
      IDNUM=00001,
      IRETRY=YES,
      MAXPATH=1,
      MAXDATA=265,        MAX PIU SIZE INC TH & RH        X
      MAXOUT=7,          MAX PIU'S SENT BEFORE RESP REQ  X
      PACING=0,          SECONDARY RECEIVES              X
      VPACING=0,        (V) VTAM TO NCP PACING           X
      PUTYPE=2,        PHYSICAL UNIT TYPE TWO           X
      DISCNT=(NO),     (V)
      ISTATUS=ACTIVE,  (V) INITIAL STATUS               X
      SSCPFM=USSSCS   (V) SDLC 3276
*****
*
*      PATH STATEMENT FOR SWITCHED PC
*
*****
PATH01 PATH  DIALNO=(8365091*),
      GID=1,
      GRPNM=G14S2,
      USE=YES,
      PID=1
*****
*
*      LU SPECIFICATIONS  PC
*
*****
LPSW1  LU      LOCADDR=2,
      MODETAB=MODEGS,   (V) SDLC PC
      DLOGMOD=DSILGMOD, (V) FOR LU2
      USSTAB=US3276,    (V) USS TABLE
      ISTATUS=ACTIVE   (V)
*****
```

S/1 SWITCHED DEFINITION

```
*****
SWSER1  VBUILD TYPE=SWNET,                                     X
          MAXNO=0,                                           X
          MAXGRP=1
*****
*
* NO PATH STATEMENT (NO DIAL-OUT CAPABILITY)                 *
*
*****
* PU MACRO SPECIFICATION FOR SERIES/1                          *
*****
P14SER1 PU  ADDR=C5, S/1 ADDRESS='E' (EBCDIC)                 X
          IDBLK=021,                                         X
          IDNUM=00001,                                       X
          MAXPATH=0,                                         X
          MAXOUT=7, MAX SDLC FRAMES BEFORE RESPONSE         X
          MAXDATA=265, MAX PIU SIZE INC TH & RH             X
          PACING=0, SECONDARY RECEIVES                       X
          PASSLIM=7, MAX PIU'S SENT PER SERVICE ENTRY       X
          PUTYPE=2, PHYSICAL UNIT TYPE ONE                  X
          VPACING=0, PRIMARY SENDS                           X
          ISTATUS=ACTIVE, INITIAL STATUS                     X
          MODETAB=MTGS, CHANGED FROM MODEGS S.WOLF 6/9/83
*****
* LOGICAL UNIT SPECIFICATIONS FOR SERIES/1                      *
*****
T14SER11 LU  LOCADDR=1, ISTATUS=ACTIVE
T14SER12 LU  LOCADDR=2, ISTATUS=ACTIVE,                       X
          DLOGMOD=SER2DSC
T14SER13 LU  LOCADDR=3, ISTATUS=ACTIVE
T14SER14 LU  LOCADDR=4, ISTATUS=ACTIVE
T14SER15 LU  LOCADDR=5, ISTATUS=ACTIVE
T14SER16 LU  LOCADDR=6, ISTATUS=ACTIVE
*****
```

S/34 SWITCHED DEFINITION

```
*****
SWSNA1 VBUILD TYPE=SWNET, X
      MAXNO=1, X
      MAXGRP=2
*****
*
*      PU      MACRO SPECIFICATION FOR SYS/34      *
*
*****
PSYS34A PU      ADDR=C1, X
      IDBLK=00E, X
      IDNUM=000C1, X
      IRETRY=YES, X
      DISCNT=NO, X
      MAXDATA=265, X
      MAXOUT=7, X
      MAXPATH=1, X
      PACING=7, X
      PASSLIM=7, X
      PUTYPE=2, X
      SSCPFM=USSCS, X
      MODETAB=MODEGS, X
      USSTAB=USGS, X
      VPACING=8, X
      ISTATUS=ACTIVE      (V) VTAM
*****
*
*      PATH STATEMENT FOR SYS/34      *
*
*****
PATH01 PATH DIALNO=(8|4422780*), X
      GID=2, X
      GRPNM=G14SDL3, X
      USE=NO, X
      PID=1
*****
*
*      LU SPECIFICATIONS SYS/34      *
*
*****
LSYS34A1 LU      LOCADDR=1, X
      ISTATUS=ACTIVE      (V) VTAM
LSYS34A2 LU      LOCADDR=2, X
      ISTATUS=ACTIVE      (V) VTAM
LSYS34A3 LU      LOCADDR=3, X
      ISTATUS=ACTIVE      (V) VTAM
*****
```

```

*****
*          PU      MACRO SPECIFICATION FOR 5280          *
*          *
*****
P5280AA PU      ADDR=C1,                                X
                IDBLK=032,                              X
                IDNUM=000C1,                             X
                IRETRY=YES,                              X
                DISCNT=NO,                                X
                MAXDATA=265,                             X
                MAXOUT=7,                                 X
                MAXPATH=1,                               X
                PACING=7,                                 X
                PASSLIM=7,                               X
                PUTYPE=2,                                 X
                SSCPFM=USSSCS,                           X
                MODETAB=MODEGS,                          X
                USSTAB=USGS,                              X
                VPACING=8,                                X
                ISTATUS=ACTIVE      (V) VTAM
*****
*          PATH STATEMENT FOR 5280          *
*          *
*****
PATH01 PATH    DIALNO=(8|4422780*),                    X
                GID=2,                                   X
                GRPNM=G14SDLC3,                          X
                USE=NO,                                   X
                PID=1
*****
*          LU SPECIFICATIONS  5280          *
*          *
*****
L5280A1 LU      LOCADDR=1,                                X
                ISTATUS=ACTIVE      (V) VTAM
L5280A2 LU      LOCADDR=2,                                X
                ISTATUS=INACTIVE   (V) VTAM
L5280A3 LU      LOCADDR=3,                                X
*****

```

3276 SWITCHED DEFINITION

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
SWSNA1 VBUILD TYPE=SWNET,                                     X
                MAXNO=2,                                     X
                MAXGRP=2
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
*          PU      MACRO SPECIFICATION FOR 3276              *
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
P3276SW PU      ADDR=C3,          3270 ADDRESS='C' (EBCDIC)   X
                IDBLK=018,
                IDNUM=0B444,
                IRETRY=YES,
                MAXPATH=2,
                MAXDATA=265,      MAX PIU SIZE INC TH & RH   X
                MAXOUT=7,        MAX PIU'S SENT BEFORE RESP REQ X
                PACING=0,        SECONDARY RECEIVES          X
                VPACING=0,      (V) VTAM TO NCP PACING       X
                PUTYPE=2,      PHYSICAL UNIT TYPE TWO        X
                DISCNT=(NO),    (V)                          X
                ISTATUS=ACTIVE, (V) INITIAL STATUS           X
                SSCPFM=USSSCS   (V) SDLC 3276
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
*          PATH STATEMENT FOR SWITCHED 3276                  *
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
PATH01 PATH    DIALNO=(8|4422780*),                          X
                GID=1,
                GRPNM=G14S2,
                USE=YES,
                PID=1
PATH02 PATH    DIALNO=(9|8295608*),                          X
                GID=2,
                GRPNM=G14S2,
                USE=YES,
                PID=2
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
*          LU SPECIFICATIONS 3276                             *
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
L3276SW1 LU    LOCADDR=2,
                MODETAB=MT3276, (V) SDLC 3276              X
                DLOGMOD=T3278M2, (V)                      X
                USSTAB=US3276,  (V) USS TABLE             X
                ISTATUS=INACTIVE (V)
L3276SW2 LU    LOCADDR=3,
                ISTATUS=INACTIVE (V)
L3276SW3 LU    LOCADDR=4,
                MODETAB=MT3276, (V) SDLC 3276              X
                DLOGMOD=T3278M2, (V)                      X
                USSTAB=US3276,  (V) USS TABLE             X
                ISTATUS=INACTIVE (V)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```

3650 SWITCHED DEFINITION

```
*****
SW3650      VBUILD MAXGRP=1,MAXNO=1,TYPE=SWNET
*****
*
*          PU      MACRO SPECIFICATION FOR 3650 RETAIL STORE SYSTEM      *
*
*****
PSW3650     PU      ADDR=C1,IDBLK=005,IDNUM=0002D,DISCNT=YES,MAXDATA=265,  X
              MAXPATH=1,MODETAB=MT3650
SW3650P     PATH   DIALNO=4715,GID=1,GRPNM=G14SDL3,PID=98
QPSW3650    LU      PACING=(7,5),LOCADDR=1,DLOGMOD=IBMS3650,          X
              VPACING=(2,1)
L052D12     LU      PACING=(1,1),LOCADDR=2,ISTATUS=INACTIVE
L052D13     LU      PACING=(1,1),LOCADDR=3,DLOGMOD=INTRUSER,ISTATUS=INACTIVE
L052D14     LU      PACING=(1,1),LOCADDR=4,DLOGMOD=INTRUSER,ISTATUS=INACTIVE
L052D15     LU      PACING=(1,1),LOCADDR=5,DLOGMOD=INTRUSER,ISTATUS=INACTIVE
L052D16     LU      PACING=(1,1),LOCADDR=6,DLOGMOD=INTRUSER,ISTATUS=INACTIVE
*****
```


4700 SWITCHED DEFINITION

```

*****
SW4700  VBUILD TYPE=SWNET,          SWITCHED NETWORK NODE          X
      MAXNO=8,                      MAX DIAL NUMBERS                X
      MAXGRP=8                      MAX PATH GROUPS                X
DI47001  PU      ADDR=70,           PU ADDRESS                      X
      IDBLK=057,                    ID BLOCK FOR 4700              X
      IDNUM=00080,                  UNIQUE ID NUMBER                X
      PUTYPE=2,                     CLUSTER CONTROLLER NODE IS TYPE 2 X
      MAXDATA=265,                  FID2 = TH(6) + RH(3) + RU(UP TO 256) X
      ISTATUS=ACTIVE
DI470011 LU     LOCADDR=1,          FIRST LU ON PU                  X
      ISTATUS=ACTIVE,                X
      PACING=(3,1)
DI470012 LU     LOCADDR=2,                X
      ISTATUS=ACTIVE,                X
      PACING=(1,1)
DI470013 LU     LOCADDR=3,                X
      ISTATUS=ACTIVE,                X
      MODETAB=MT4700,                X
      USSTAB=US3270,                X
      SSCPFM=USSSCS,                X
      PACING=(1,1)
DI470014 LU     LOCADDR=4,                X
      ISTATUS=ACTIVE,                X
      PACING=(1,1)
DI470015 LU     LOCADDR=5,                X
      ISTATUS=ACTIVE,                X
      PACING=(1,1)
DI470016 LU     LOCADDR=6,                X
      ISTATUS=ACTIVE,                X
      PACING=(1,1)
DI470017 LU     LOCADDR=7,                X
      ISTATUS=ACTIVE,                X
      PACING=(1,1)
DI470018 LU     LOCADDR=8,                X
      ISTATUS=ACTIVE,                X
      PACING=(1,1)
DI470019 LU     LOCADDR=9,                X
      ISTATUS=ACTIVE,                X
      MODETAB=MT4700,                X
      USSTAB=US3270,                X
      SSCPFM=USSSCS,                X
      PACING=(1,1)
DI47001A LU     LOCADDR=10,               X
      ISTATUS=ACTIVE,                X
      PACING=(1,1)
*****

```

5520 SWITCHED DEFINITION

```
*****
SW5520 VBUILD TYPE=SWNET, X
          MAXNO=1, X
          MAXGRP=1
*****
*
*          PU      MACRO SPECIFICATION FOR 5520 ADMINISTRATIVE SYSTEM
*
*****
P5520SW  PU      ADDR=02, X
          ISTATUS=ACTIVE, X
          MODETAB=MT5520A, X
          SSCPFM=FSS, X
          PASSLIM=3, X
          PACING=3, X
          VPACING=3, X
          IDBLK=031,          031 = 5520 X
          IDNUM=01052, X
          IRETRY=YES, X
          MAXPATH=1, X
          MAXDATA=265,          MAX PIU SIZE INC TH & RH X
          PUTYPE=2,          PHYSICAL UNIT TYPE TWO X
          DISCNT=(NO)
*****
*
*          LU SPECIFICATIONS  5520
*
*****
TAS01LU1 LU      LOCADDR=1,DLOGMOD=CICS, X
          MODETAB=MT5520A, X
          PACING=3, X
          VPACING=3
TAS01LU2 LU      LOCADDR=2,DLOGMOD=T3278, X
          ISTATUS=INACTIVE
TAS01LU3 LU      LOCADDR=3,DLOGMOD=T3278, X
          ISTATUS=INACTIVE
TAS01LU4 LU      LOCADDR=4,DLOGMOD=T3278, X
          ISTATUS=INACTIVE
*
*****
```

6580 SWITCHED DEFINITION

```
*****
SW6580AU VBUILD TYPE=SWNET
*****
*
*          PU & LU SPECIFICATION FOR DISPLAYWRITER
*
*****
P6580AUS PU      ADDR=01,
                  MAXDATA=265,
                  MAXOUT=7,
                  PASSLIM=7,
                  DISCNT=YES,
                  ISTATUS=ACTIVE,
                  IDBLK=03A,
                  IDNUM=00001
TDW02LU1 LU      LOCADDR=1,
                  ISTATUS=ACTIVE,
                  VPACING=4,
                  PACING=2
TDW02LU2 LU      LOCADDR=2,
                  ISTATUS=INACTIVE,
                  VPACING=0,
                  PACING=0
TDW02LU3 LU      LOCADDR=3,
                  ISTATUS=INACTIVE,
                  VPACING=0,
                  PACING=0
*****
```

8100 SWITCHED DEFINITION

```
*****
SW8100 VBUILD TYPE=SWNET,
                  MAXNO=1,
                  MAXGRP=2
*****
*
*          PU      MACRO SPECIFICATION FOR 8100
*
*****
PSW8100 PU      ADDR=C5,          CLUSTER ADDRESS ='B' (EBCDIC)
                  IDBLK=00E,
                  IDNUM=000C5,
                  IRETRY=YES,
                  DISCNT=NO,
                  MAXOUT=7,          MAX SDLC FRAMES BEFORE RESPONSE
                  MAXDATA=265,      MAX PIU SIZE INC TH & RH
                  MAXPATH=1,        MAX PATH
                  PACING=7,          SECONDARY RECEIVES
                  PASSLIM=1,        MAX PIU'S SENT PER SERVICE ENTRY
                  PUTYPE=2,         PHYSICAL UNIT TYPE ONE
                  VPACING=7,        PRIMARY SENDS
                  ISTATUS=ACTIVE,   INITIAL STATUS
                  MODETAB=MODEDPPX
*****
*
*          PATH STATEMENT FOR 8100
*
*****
PATH81 PATH      DIALNO=(8|4422780*),
                  GID=2,
                  GRPNM=G14SDLC3,
                  USE=NO,
                  PID=2
*****
```

```

*****
*
*           LU SPECIFICATIONS   8100
*
*****
NS02HDT1 LU      LOCADDR=1, ISTATUS=ACTIVE, MODETAB=MODEDPPX
NS02HDT2 LU      LOCADDR=2, ISTATUS=ACTIVE, MODETAB=MODEDPPX
S002      LU      LOCADDR=3, ISTATUS=ACTIVE, MODETAB=MODEDPPX
DS02      LU      LOCADDR=4, ISTATUS=ACTIVE, MODETAB=MODEDPPX
GS02      LU      LOCADDR=5, ISTATUS=ACTIVE, MODETAB=MODEDPPX
HS02      LU      LOCADDR=6, ISTATUS=ACTIVE, MODETAB=MODEDPPX
IS02      LU      LOCADDR=7, ISTATUS=ACTIVE, MODETAB=MODEDPPX
NS02RJE1  LU      LOCADDR=8, ISTATUS=ACTIVE, MODETAB=MODEDPPX
NS02RJE2  LU      LOCADDR=9, ISTATUS=ACTIVE, MODETAB=MODEDPPX
NS02RJE3  LU      LOCADDR=10, ISTATUS=ACTIVE, MODETAB=MODEDPPX
NS02DSC1  LU      LOCADDR=11, ISTATUS=ACTIVE, MODETAB=MODEDPPX
NS02DSC2  LU      LOCADDR=12, ISTATUS=ACTIVE, MODETAB=MODEDPPX
NS02DSC3  LU      LOCADDR=13, ISTATUS=ACTIVE, MODETAB=MODEDPPX
NS02DSC4  LU      LOCADDR=14, ISTATUS=ACTIVE, MODETAB=MODEDPPX
NS02DSC5  LU      LOCADDR=15, ISTATUS=ACTIVE, MODETAB=MODEDPPX
LS102     LU      LOCADDR=16, ISTATUS=ACTIVE, MODETAB=MODEDPPX
*****

```

8815 SWITCHED DEFINITION

```

*****
SW8815  VBUILD TYPE=SWNET
*
*****
*           SCANMASTER SWLINE DEFINITION   (D) - DEFAULT VALUE
*
*****
PSWSM02  PU      ADDR=D3,          SDLC ADDR
                IDBLK=033,        FOR SCANMASTER
                IDNUM=C0019,       THE SCANMASTER
                IRETRY=YES,        NCP WILL RETRY POLLING IF IDLE TIMEOUT
                MAXDATA=265,
                MAXOUT=7,
                PASSLIM=7,
                MAXPATH=0,         (D) MAX NO OF DIALOUT PATHS
                DISCNT=(YES),     DISC WHEN NO LU-LU SESS
                ISTATUS=ACTIVE
*
TSM02LU1 LU      LOCADDR=01,
                MODETAB=MT8815,
                DLOGMOD=PC060307,
                LOGAPPL=CICS11
*
*****

```


REFERENCES

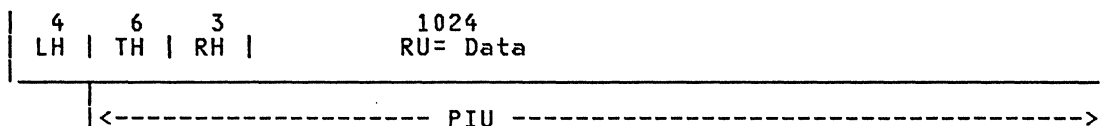
ACF/VTAM V2

Advanced Communication Function for VTAM Version 2
 Planning and Installation Reference

SC27-0610

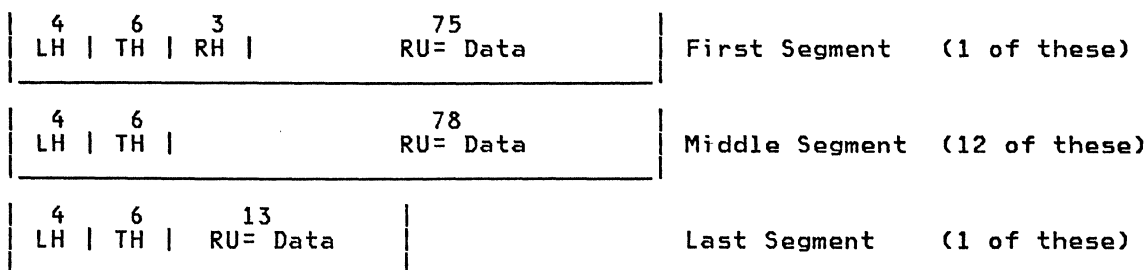
UNITSZ CONSIDERATIONS WITH 3274-1A

If you have a 3274-1A (Local SNA) control unit installed then UNITSZ must be at least 80. The largest RU which can be sent to the host is 1024 bytes. RU means just the data portion. Additional bytes are required to form a PIU. Namely, the TH (6 bytes) and the RH (3 bytes). The transfer to the host also requires a link header (LH of at least 4 bytes) at the beginning of each transmission. The largest transfer to the host could look like:



Now if your IOBUF size was greater than 1037 bytes then this PIU could be sent to the host using a single channel program and a single host buffer. The link header is sent in with the PIU. Since IOBUF must be divisible by four, then the largest usable specification for UNITSZ is 1040. If, however, you had defined your IOBUF size as 88 then the PIU of 1033 must be broken into smaller pieces to send to the host.

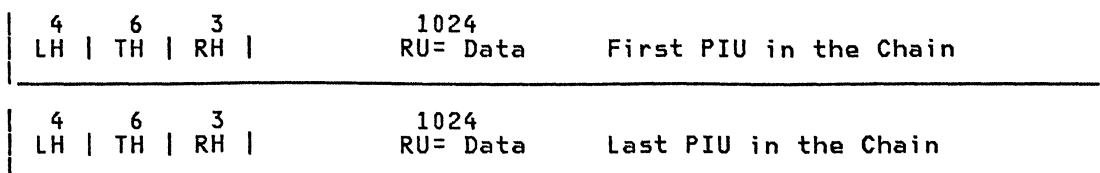
These smaller pieces are called segments. If our message (RU) were exactly 1024 bytes and our IOBUF size were 88, then the segments might look something like:



Total bytes= 75 + (78 x 12) + 13 = 1024

One start I/O to transfer the 14 segments.

If you have an inbound message in excess of 1024 bytes then the control unit will break the data into chains of PIUs. Each element in the chain will have an RU size of approximately 1024 bytes. For example, if our input message was exactly 2048 bytes the chains might look like:



Each of these two PIUs would be broken into segments and sent to the host. The first PIU would be broken into 14 segments and transferred to the host with a single start I/O. Then the next PIU (the last in the chain) would be broken into 14 segments and another start I/O issued to read in this PIU. Therefore, MAXBFRU must be equal to the largest number of segments the 3274 may send to the host in a single transfer.

The above discussion is purely theoretical. The actual number of data bytes per segment and per chain element depends on the IOBUF size you specify and the amount of concurrent activity in the 3274 controller.

We have seen an instance where IOBUF size was 128 and the data size was 963. A buffer trace showed two elements in the chain; the first element in the chain was 904 and was broken into 8 segments of 113 RU (data) bytes each; followed by the second chain element with 59 RU (data) bytes.

Below is a formula for estimating MAXBFRU to be specified on the PU statement.

$$\text{MAXBFRU} = \frac{1024}{(\text{IOBUF} - 10)} \quad \text{Round answer up to the next largest integer}$$

LOCAL 3270 DEFINITION (SNA) - 3274 MODEL 1A

PU DEFINITION

```
*****
*
* LOCAL 3270 DEFINITION (SNA) 3274 Model 1A
*
*****
```

H11S VBUILD TYPE=LOCAL

```
-----*
* LOCAL 3274-1A DEFINITIONS
*-----*
```

H11S VBUILD TYPE=LOCAL

```
H11S08FP PU CUADDR=20C, ISTATUS=ACTIVE, PUTYPE=2, MAXBFRU=10, X
USSTAB=US3276

H11S08F1 LU LOCADDR=2, FIRST LU MUST BE LOCADDR=2 X
MODETAB=MT3274A3, DLOGMOD=GMOD3E, X
ISTATUS=ACTIVE (V) VTAM

H11S08F2 LU LOCADDR=3, X
MODETAB=MT3274A3, DLOGMOD=PMOD2E, X
ISTATUS=ACTIVE (V) VTAM

H11S08F3 LU LOCADDR=4, X
MODETAB=MT3274A3, DLOGMOD=GMOD3E, X
ISTATUS=ACTIVE (V) VTAM

H11S08F4 LU LOCADDR=5, X
MODETAB=MT3274A3, DLOGMOD=GMOD3E, X
ISTATUS=ACTIVE (V) VTAM

H11S08F5 LU LOCADDR=6, X
MODETAB=MT3274A2, DLOGMOD=GMOD2E, X
ISTATUS=ACTIVE (V) VTAM

H11S08F6 LU LOCADDR=7, X
MODETAB=MT3274A3, DLOGMOD=T3278M3, X
ISTATUS=ACTIVE (V) VTAM

H11S08F7 LU LOCADDR=8, X
MODETAB=MT3274A2, DLOGMOD=GMOD2E, X
ISTATUS=ACTIVE (V) VTAM

H11S08F8 LU LOCADDR=9, X
MODETAB=MT3274A2, DLOGMOD=T3278M2, X
ISTATUS=ACTIVE (V) VTAM
```

LU DEFINITION

Note: The ACF/VTAM Installation manual describes the definition of Local SNA major nodes.

LOCAL 3270 DEFINITION (SNA) - 3274 MODEL 1A(COLOR)

PU DEFINITION

```
*-----*
*          LOCAL 3274-1A DEFINITIONS          *
*-----*
```

```
LOCCOLOR VBUILD   TYPE=LOCAL
LOCAPU   PU       CUADDR=05E, ISTATUS=ACTIVE, PUTYPE=2, MAXBFRU=10,      *
                MODETAB=MT3274A2
```

LU DEFINITION

```
LOC791   LU       LOCADDR=2, VPACING=4, DLOGMOD=GMOD3E, USSTAB=US3276
LOC32872 LU       LOCADDR=3, VPACING=4, DLOGMOD=PMOD2E
LOC793   LU       LOCADDR=4, VPACING=4, DLOGMOD=GMOD2E, USSTAB=US3276
LOC794   LU       LOCADDR=5, VPACING=4, DLOGMOD=GMOD2E, USSTAB=US3276
LOC795   LU       LOCADDR=6, VPACING=4, DLOGMOD=GMOD4E, USSTAB=US3276
LOC32876 LU       LOCADDR=7, VPACING=4, DLOGMOD=PMOD2E, USSTAB=US3276
LOC32877 LU       LOCADDR=8, VPACING=4, DLOGMOD=PMOD2E
LOC798   LU       LOCADDR=9, VPACING=4, DLOGMOD=GMOD4E, USSTAB=US3276
```

Note: The ACF/VTAM Installation manual describes the definition of Local SNA major nodes.

LOCAL 3270 TERMINAL DEFINITION (NON-SNA)

```
*****
*
* LOCAL 3270 TERMINAL DEFINITION          *
*
*****
```

```
          LBUILD
H11L3A0  LOCAL  CUADDR=3A0, TERM=3286, FEATUR2=(MODEL2),                X
                MODETAB=MT3270, ISTATUS=ACTIVE, SPAN=(SPH11L)
H11L3A1  LOCAL  CUADDR=3A1, TERM=3277, FEATUR2=(MODEL2, NOEDATS),      X
                MODETAB=MT3270, USSTAB=US3270,                       X
                ISTATUS=ACTIVE, SPAN=(SPH11L)
H11L3A2  LOCAL  CUADDR=3A2, TERM=3277, FEATUR2=(MODEL2, NOEDATS),      X
                MODETAB=MT3270, USSTAB=US3270,                       X
                ISTATUS=ACTIVE, SPAN=(SPH11L)
H11L3A3  LOCAL  CUADDR=3A3, TERM=3277, FEATUR2=(MODEL2, NOEDATS),      X
                MODETAB=MT3270, USSTAB=US3270,                       X
                ISTATUS=ACTIVE, SPAN=(SPH11L)
```

Note: The ACF/VTAM Installation manual describes the definition and filing of local terminals.

REFERENCES

ACF/VTAM V2

Advanced Communication Function for VTAM Version 2	SC27-0610
Planning and Installation Reference	
OS/VS2 System Programming Library: System Generation	GC26-3792

VBUILD DEFINITION

CTCA for SA11

```
H11CTCA  VBUILD  TYPE=CA
H11C410G GROUP  LNCTL=CTCA, ISTATUS=ACTIVE
H11C410  LINE   ADDRESS=500, ISTATUS=ACTIVE
H11C410P PU     ISTATUS=ACTIVE
```

Note: The ACF/VTAM Installation manual describes the definition of CTCA connection. In these examples, all the VTAM defaults were taken.

CTCA for SA01

```
H01CTCA  VBUILD  TYPE=CA
H01C510G GROUP  LNCTL=CTCA
H01C510  LINE   ADDRESS=510
H01C510P PU
```

PATH DEFINITION

PATH SA11 Definition(D11PATH)

PATH	DESTSA=1, ER0=(14,1),ER1=(14,1),ER2=(24,1),ER3=(13,1), ER4=(24,1),ER7=(1,1), VR0=0,VR1=1,VR2=2,VR3=3,VR4=4,VR7=7	X X X
PATH	DESTSA=10, ER0=(13,1),ER1=(13,1),ER2=(14,1),ER3=(13,1), ER4=(24,1),ER5=(14,1), VR0=0,VR1=0,VR2=0,VR3=3,VR4=4	X X X
PATH	DESTSA=12, ER0=(13,1),ER1=(13,1),ER2=(24,1),ER5=(14,1), VR0=0,VR1=0,VR2=0,VR3=5,VR4=2	X X
PATH	DESTSA=13, ER0=(13,1),ER1=(13,1),ER2=(24,1),ER5=(14,1), VR0=0,VR1=0,VR2=0,VR3=5,VR4=2	X X
PATH	DESTSA=14, ER0=(13,1),ER1=(13,1),ER3=(13,1),ER4=(24,1), ER5=(14,1), VR0=0,VR1=0,VR2=0,VR3=3,VR4=4	X X X

Note: Path to subarea 01 is via CTCA (Note ER7 in DESTSA=1).

PATH SA01 Definition(D01PATH)

PATH	DESTSA=10,	X
	ER0=(4,1),ER1=(4,1),ER2=(4,1),ER4=(4,1),	X
	VR0=0,VR1=0,VR2=1,VR3=2,VR4=4	
PATH	DESTSA=11,	X
	ER0=(4,1),ER1=(4,1),ER2=(4,1),ER4=(4,1),	X
	ER7=(11,1),	X
	VR0=0,VR1=0,VR2=1,VR3=2,VR4=4,VR6=7,VR7=7	
PATH	DESTSA=14,	X
	ER0=(4,1),ER1=(4,1),ER2=(4,1),ER4=(4,1),	X
	VR0=0,VR1=0,VR2=1,VR3=2,VR4=4	

Note: Path to subarea 11 is via CTCA (Note ER7 in DESTSA=11).

MVS Definition

The stage 1 generation deck is covered in the MVS chapter. Definition of the channel to channel interface is contained in these samples.

CHAPTER 12: MSNF NETWORK DEFINITIONS

The following definitions are samples used to define a Multidomain operation that allows communication between ACF/VTAM on an MVS system with either ACF/VTAM on an MVS system or a DOS/VSE system. The cross domain path between the domains is via 37X5s and/or channel to channel adapter.

This section connects subareas 10, 11 and 12. The definitions for subarea 11 is in the MVS section of the guide and the definitions for subarea 12 in the VSE section. Members that must be updated for these subareas for MSNF are in this section.

Each ACF/VTAM node in the network which wants to become an owner of a certain NCP must provide that VTAM node with access to the NCP generation Stage I input source. (ACF/VTAM sends an Activate Physical to the NCP to become an owner) The Resource Resolution Table (RRT) produced by Stage II of the NCP generation must also be provided to each host node. The NCP load modules must be provided to any host access method which will load the 37X5. Installation planning should consider how these files will be transferred to the necessary locations. This is especially important when host processors are in multiple geographic locations.

REFERENCES

ACF/VTAM V2 Planning and Installation Reference	SC27-0610
ACF/VTAM V2 Operation	SC27-0612

ACF/VTAM STARTUP CONFIGURATION DEFINITION

Subarea 10 (ATCCON10)

D10PATH,H10L,A10APP,A10TSO,A10NCF,A10NCFT,A10NCFH,A10NCFP,M00,H10DBDC, *
R11ANCF,R11H,R11APP,R11N,R11ATSO

Subarea 11 (ATCCON11)

A11NCF,D11PATH,M00,A11TSO,A11APP, X
A11TAF,A11IMS,A11CICS,A11DPCX,A11CDN,A11NCFT, X
H11L,H11S, X
R10ATSO,R10ANCF,R10APP, X
R12ANCF,R12APP,R12ACICS,R12AJEP,R12CDN, X
RSYS8JES,RSYS2JES, X
SWSYS34,SW6580AU,SWPC,SW5520,SW4700,SWSER1

Subarea 12 (ATCCON12)

D12PATH,M00, X
A12APP,A12CICS,H12L,A12TAF,A12NCF,A12AJEP, X
R10ATSO,R10ANCF,R10APP,R10ACICS, X
R11ATSO,R11ANCF,R11APP,R11ACICS, X
RSYS8JES,RSYS2JES

CDRM DEFINITIONS

CDRM for Network (M00)

VBUILD TYPE=CDRM
M01 CDRM SUBAREA=01, ISTATUS=INACTIVE, CDRSC=OPT, CDRDYN=YES
M03 CDRM SUBAREA=03, ISTATUS=INACTIVE, CDRSC=OPT
M09 CDRM SUBAREA=09, ISTATUS=INACTIVE, CDRSC=OPT
M10 CDRM SUBAREA=10, ISTATUS=ACTIVE, CDRSC=OPT, CDRDYN=YES
M11 CDRM SUBAREA=11, ISTATUS=ACTIVE, CDRSC=OPT, CDRDYN=YES
M12 CDRM SUBAREA=12, ISTATUS=ACTIVE, CDRSC=OPT, CDRDYN=YES
M19 CDRM SUBAREA=19, ISTATUS=INACTIVE, CDRSC=OPT
M21 CDRM SUBAREA=21, ISTATUS=ACTIVE, CDRSC=OPT, CDRDYN=YES
M22 CDRM SUBAREA=22, ISTATUS=INACTIVE, CDRSC=OPT, CDRDYN=YES
M24 CDRM SUBAREA=24, ISTATUS=INACTIVE, CDRSC=OPT, ELEMENT=1
M29 CDRM SUBAREA=29, ISTATUS=INACTIVE, CDRSC=OPT
M31 CDRM SUBAREA=31, ISTATUS=ACTIVE, CDRSC=OPT, CDRDYN=YES
M41 CDRM SUBAREA=41, ISTATUS=INACTIVE, CDRSC=OPT, CDRDYN=YES
M60 CDRM SUBAREA=60, ISTATUS=ACTIVE, CDRSC=OPT, CDRDYN=YES
M61 CDRM SUBAREA=61, ISTATUS=ACTIVE, CDRSC=OPT, CDRDYN=YES

PATH DEFINITIONS.

D10PATH (MVS System Subarea 10)

PATH DESTSA=11, X
ER0=(14,1), X
VR0=0,VR1=0,VR2=0
PATH DESTSA=12, X

	ER0=(14,1),ER2=(14,1),ER4=(14,1),ER5=(14,1),	X
	VR0=0,VR1=0,VR2=2,VR3=4,VR4=5	
PATH	DESTSA=14,	X
	ER0=(14,1),	X
	VR0=0,VR1=0,VR2=0	

D11PATH (MVS System Subarea 11)

PATH	DESTSA=1,	X
	ER0=(14,1),ER1=(14,1),ER2=(24,1),ER3=(13,1),	X
	ER4=(24,1),ER7=(1,1),	X
	VR0=0,VR1=0,VR2=2,VR3=3,VR4=4,VR7=7	
PATH	DESTSA=10,	X
	ER0=(13,1),ER1=(13,1),ER2=(14,1),ER3=(13,1),	X
	ER4=(24,1),ER5=(14,1),	X
	VR0=0,VR1=0,VR2=0,VR3=3,VR4=4	
PATH	DESTSA=12,	X
	ER0=(13,1),ER1=(13,1),ER2=(24,1),ER5=(14,1),	X
	VR0=0,VR1=0,VR2=0,VR3=5,VR4=2	
PATH	DESTSA=13,	X
	ER0=(13,1),ER1=(13,1),ER2=(24,1),ER5=(14,1),	X
	VR0=0,VR1=0,VR2=0,VR3=5,VR4=2	
PATH	DESTSA=14,	X
	ER0=(13,1),ER1=(13,1),ER3=(13,1),ER4=(24,1),	X
	ER5=(14,1),	X
	VR0=0,VR1=0,VR2=0,VR3=3,VR4=4	

D12PATH (VSE System Subarea 12)

D12PATH	PATH	DESTSA=10,	X
		ER0=(13,1),ER1=(13,1),ER2=(13,1),ER4=(13,1),	X
		ER6=(13,1),	X
		VR0=0,VR1=1,VR2=2,VR3=4,VR4=6	
	PATH	DESTSA=11,	X
		ER0=(13,1),ER3=(13,1),ER5=(13,1),	X
		VR0=0,VR1=0,VR2=0,VR3=3,VR4=5	
	PATH	DESTSA=13,	X
		ER0=(13,1),	X
		VR0=0,VR1=0,VR2=0	
	PATH	DESTSA=14,	X
		ER0=(13,1),ER1=(13,1),ER2=(13,1),ER4=(13,1),	X
		ER6=(13,1),	X
		VR0=0,VR1=1,VR2=2,VR3=4,VR4=6	

CDRSC DEFINITIONS

CDRSCs for subarea 10

R11ANCF

	VBUILD TYPE=CDRSC
NCF11	CDRSC CDRM=M11
NCF11000	CDRSC CDRM=M11
NCF11001	CDRSC CDRM=M11
NCF11002	CDRSC CDRM=M11
NCF11003	CDRSC CDRM=M11
NCF11004	CDRSC CDRM=M11
NCF11005	CDRSC CDRM=M11
NCF11006	CDRSC CDRM=M11
NCF11007	CDRSC CDRM=M11
NCF11008	CDRSC CDRM=M11
NCF11009	CDRSC CDRM=M11

R11APP

	VBUILD	TYPE=CDRSC
ECH011	CDRSC	CDRM=M11
ECH011A	CDRSC	CDRM=M11
NPA11	CDRSC	CDRM=M11
HCF11	CDRSC	CDRM=M11
SNAP11	CDRSC	CDRM=M11
SEND11	CDRSC	CDRM=M11
RECV11	CDRSC	CDRM=M11
RDPD3MVS	CDRSC	CDRM=M11

R11ATSO

	VBUILD	TYPE=CDRSC
TS011	CDRSC	CDRM=M11
TS01101	CDRSC	CDRM=M11
TS01102	CDRSC	CDRM=M11
TS01103	CDRSC	CDRM=M11
TS01104	CDRSC	CDRM=M11
TS01105	CDRSC	CDRM=M11
TS01106	CDRSC	CDRM=M11
TS01107	CDRSC	CDRM=M11
TS01108	CDRSC	CDRM=M11
TS01109	CDRSC	CDRM=M11
TS01110	CDRSC	CDRM=M11
TS01111	CDRSC	CDRM=M11
TS01112	CDRSC	CDRM=M11
TS01113	CDRSC	CDRM=M11
TS01114	CDRSC	CDRM=M11
TS01115	CDRSC	CDRM=M11
TS01116	CDRSC	CDRM=M11
TS01117	CDRSC	CDRM=M11
TS01118	CDRSC	CDRM=M11
TS01119	CDRSC	CDRM=M11
TS01120	CDRSC	CDRM=M11

CDRSCs for Subarea 11

R10ANCF

	VBUILD	TYPE=CDRSC
NCF10	CDRSC	CDRM=M10
NCF10000	CDRSC	CDRM=M10
NCF10001	CDRSC	CDRM=M10
NCF10002	CDRSC	CDRM=M10
NCF10010	CDRSC	CDRM=M10
NCF10004	CDRSC	CDRM=M10
NCF10005	CDRSC	CDRM=M10
NCF10006	CDRSC	CDRM=M10
NCF10007	CDRSC	CDRM=M10
NCF10008	CDRSC	CDRM=M10
NCF10009	CDRSC	CDRM=M10

R10APP

	VBUILD	TYPE=CDRSC
SEND10	CDRSC	CDRM=M10
RECV10	CDRSC	CDRM=M10

R10ATSO

```
                VBUILD TYPE=CDRSC
TS010   CDRSC  CDRM=M10
TS01001 CDRSC  CDRM=M10
TS01002 CDRSC  CDRM=M10
TS01003 CDRSC  CDRM=M10
TS01004 CDRSC  CDRM=M10
TS01005 CDRSC  CDRM=M10
TS01006 CDRSC  CDRM=M10
TS01007 CDRSC  CDRM=M10
TS01008 CDRSC  CDRM=M10
TS01009 CDRSC  CDRM=M10
TS01010 CDRSC  CDRM=M10
TS01011 CDRSC  CDRM=M10
TS01012 CDRSC  CDRM=M10
TS01013 CDRSC  CDRM=M10
TS01014 CDRSC  CDRM=M10
TS01015 CDRSC  CDRM=M10
TS01016 CDRSC  CDRM=M10
TS01017 CDRSC  CDRM=M10
TS01018 CDRSC  CDRM=M10
TS01019 CDRSC  CDRM=M10
TS01020 CDRSC  CDRM=M10
```

R12ACICS

```
                VBUILD TYPE=CDRSC
CICS12  CDRSC  CDRM=M12
```

R12AJEP

```
                VBUILD TYPE=CDRSC
JEP12A11 CDRSC  CDRM=M12
JEP12B11 CDRSC  CDRM=M12
JEP12C11 CDRSC  CDRM=M12
JEP12D11 CDRSC  CDRM=M12
JEP12E11 CDRSC  CDRM=M12
JEP12F11 CDRSC  CDRM=M12
```

R12ANCF

```
                VBUILD TYPE=CDRSC
NCF12   CDRSC  CDRM=M12
NCF12000 CDRSC  CDRM=M12
NCF12001 CDRSC  CDRM=M12
NCF12002 CDRSC  CDRM=M12
NCF12012 CDRSC  CDRM=M12
NCF12004 CDRSC  CDRM=M12
NCF12005 CDRSC  CDRM=M12
NCF12006 CDRSC  CDRM=M12
NCF12007 CDRSC  CDRM=M12
NCF12008 CDRSC  CDRM=M12
NCF12009 CDRSC  CDRM=M12
```

R12APP

```
                VBUILD TYPE=CDRSC
POWER   CDRSC  CDRM=M12
VCNA12  CDRSC  CDRM=M12
SEND12  CDRSC  CDRM=M12
```


RECV12 CDRSC CDRM=M12
RALVSE3 CDRSC CDRM=M12

R12CDN

R12CDN VBUILD TYPE=CDRSC
CDN12S11 CDRSC CDRM=M12
CDN12R11 CDRSC CDRM=M12

CDRSCs for Subarea 12

R10ACICS

CICS10 VBUILD TYPE=CDRSC
CDRSC CDRM=M10

R10ANCF

* *
* Same that SA11 *
* *

R10APP

* *
* Same that SA11 *
* *

R10ATSO

* *
* Same that SA11 *
* *

R11ANCF

* *
* Same that SA10 *
* *

R11APP

* *

```
* Same that SA10 *
*                   *
*****
```

R11ATSO

```
*****
*                   *
* Same that SA10 *
*                   *
*****
```

Note: You will also need to define the terminals owned by the other domains which are to be acquired by applications in a domain.

DOCUMENTATION

NCCF General Information	GC27-0429
NCCF Installation	SC27-0430
NCCF Messages	SC27-0431
NCCF Terminal Use	SC27-0432
NCCF Customization	SC27-0433
NCCF Logic	LY38-3010
Communication Network Management Customizing NCCF	GG24-1554
Communication Network Management NCCF Terminal Access Facility	GG24-1540

INSTALLATION PRE-PLANNING

The following procedures should be done prior to the actual coding of the Network Communication Control Facility (NCCF) definition statements.

1. Pictorially define the entire network as defined to ACF/VTAM and ACF/NCP. This definition should initially be done assuming there will be only one NCCF operator who will have complete authorization for the control of the network. However, since in most uses of NCCF there will be multiple NCCF operators, each of whom will control different and sometimes overlapping parts of the network, the initial definition should be designed for the future and actual operation. In other words, plan for at least one operator that can control the entire network, and additional operators that have limited spans of control.

Part of the network definition must be to determine which LUs will be constantly used as operator stations and hardcopy printers. Those terminals must be defined ahead of time. Also the various spans of control the operators will have and the class of commands they are authorized to use (scope of commands) must be decided upon.

The people involved in the definition of the control of the network should include ACF/VTAM systems programmers as well as operations personnel. This will ensure that the operational aspects are thorough as well as practical. After all, it will be the operations staff who will be using the product.

2. After the pictorial definition is complete, coding of the initial and single NCCF operator should take into consideration any spans which will be assigned to other NCCF operators in the future. By using this coding approach you will avoid having to recode the NCCF definition for the final configuration.
3. NCCF only requires the "SPAN" parameter if specific profiles are used. If you intend to have all global operators, then omit the "SPAN" parameter.

If specific profiles are used then NCCF requires the 'SPAN' parameter be coded in the ACF/VTAM definitions. It would be judicious to plan for the inclusion of NCCF as early as possible. ACF/NCP/VS will ignore this parameter, thus it can be coded even before NCCF is installed. The only thing that might cause a recoding of the 'spanname' is that the network control definition is not complete at the time of the network definition. But since this is an NCCF parameter, it takes effect

at NCCF initialization and can be easily changed. CAUTION: Always place spanname in parenthesis, e.g., SPAN=(spanname).

4. The various NCCF definitions are stored as several individual members in the NCCF data set(s) as opposed to the NCP definition which is a single member representing the network which is running at the time. Thus in order to ease your definition of the NCCF members, define one span of control at a time (as shown by your pictorial configuration).
5. To ease and confine the extent of the NCCF testing, bring up a single NCCF definition which controls the entire network. This test will check that the NCCF program and commands are working. As mentioned previously you will probably want to keep at least one operator in your final definition that has global authority.
6. The next level of testing should be to define another NCCF operator in this single NCCF environment. This is done by adding another set of OPERATOR and PROFILE definitions to the NCCF definition. Keep the original (and completely authorized) operator definition intact. You will always want to have one operator who has the authority to control all of the network. After this definition is complete, then bring up and test all of the commands and extents of this operator's control in the network.

Continue doing this step as many times as there are NCCF operators to be defined in this NCCF definition. However, be sure to do this for only one operator at a time to assure that the testing is complete and controllable.

7. After the complete single NCCF definition is completely tested and is operational the way desired, and if there is to be more than one domain in the network, then start the NCCF definition for the next domain. Again, you want to step through the NCCF definition and testing one step at a time.
8. When two (or more) NCCF domain definitions are complete and working individually as desired, then test them together. Again, if there are other domains to be included, bring them on one at a time.
9. **CAUTION:** Do not use SPAN and RRD statements in a multidomain environment until you fully understand how they work together.

INSTALLATION STEPS

1. Install NCCF distribution tape and apply necessary PTFs. On the distribution tape you will find examples for all necessary definitions.
2. Code and file NCCF definition statements. These statements may be filed as members in the ACF/VTAM definition library (SYS1.VTAMLST), or may be put into any partitioned data set. The following members need to be defined and filed:

<u>MEMBER</u> -----	<u>CONTENTS</u> -----
a. DSIOPF	OPERATOR and PROFILEN statements to define all operators, their passwords, and point to their profiles (see example 1).
b. User defined profile name	PROFILE, DOMAINS, AUTH, OPCLASS, ISPAN and SPAN statements to define the operator's span of control (see example 2).
c. DSISPN	SPANLIST which associates spans and major nodes. Defer this member until you need operators with specific profiles. To begin with code only an END statement in member DSISPN. If you omit this member then NCCF will ask the system operator if

he/she wishes to continue. Be sure to specify all defined profile names as valid for the master terminal operator or Systems Programmer. NCCF may be checked out with one operator by logging on with different profiles.

OPERATOR

PROFILEN prof1,prof2,...(prof1 is the default)
(see example 3).

d. DSIDMN NCCFID, ACCESS, NCCFIC, OPTIONS, POS, POSPOOL, HARD-COPY, CDMNSESS, TASK, MAXABEND, MAXLOGON, MAXSPAN, RRD and END which specify system information for NCCF as a whole, rather than a particular operator (see example 4).

MAXABEND should be a low number 2 or 3. This number determines when NCCF will place a device in ERROR status. If a device is NOT in error status, (i.e., MAXABEND has not been reached) then the MOVE command will not work. MAXLOGON should be about 2 or 3. When this number is reached because of incorrect information on the logon screen, NCCF issues CLSDST RELEASE.

e. DSICMD CMDMDL and PARMSYN which define all valid commands, including standard VTAM commands, that may be entered from an NCCF terminal. These statements may point to command lists or command processors. CMDCLASS, KEYCLASS, VALCLASS which define the scope of commands. (See example 5).

f. User defined name DSTINIT defines the NCCF VSAM datasets (LOG) (see example 6).

3. Create NCCF start procedure using a dataset for disk logging of all messages if desired (see example 7).
4. Create NCCF Command Lists for your own purposes, and file them into a user named dataset (e.g., DSICLD) (see example 8).
5. Code, assemble, and linkedit any desired command processors and/or user exits. Defer this step until you are sure you need them. Once an exit is there it cannot be disabled.
6. Add NCCF APPL statements to current APPL major node or create a new major node and include it in the configuration list (ATCCONxx) (see example 9).
7. Modify logon mode tables. NCCF requires a mode table ENTRY of DSILGMOD for its bind. Therefore, each terminal type that uses NCCF must have a separate logon mode table with a DSILGMOD entry in it (see example 10).
8. Update USS tables as necessary for NCCF logon (see example 11).
9. Allocate NCCF LOG dataset(s) (see example 12).
10. Create procedure for printing a hard copy of NCCFs disk log (see example 13).

OPERATIONAL CONSIDERATIONS

1. VTAM messages will no longer go to the system console, they will go to the NCCF operator and the hardcopy log. System operators will no longer be aware of many network problems, for example, line and modem problems. This, of course, is the intention of NCCF but it will require some operational changes, so be sure to plan for this. In addition it will require good communication between the system operators and the NCCF operators. If two or more operators with global authority are concurrently signed on to NCCF, then the receiver of unsolicited messages will be the operator whose terminal appears first in the POS statement(s).

2. PFKs can be used for standard commands but cannot be used to point to a CLIST since a member name beginning with a numeric is not allowed by the Operating System. This may be handled by an exit routine (DSIEX01) which converts PFK input to something that begins with an alpha character, e.g., convert 1 to P1, 2 to P2, etc. Then the member that DSICCP reads and executes will be P1, P2, etc. (see the Customization manual).
3. Since NCCF hardcopy logs must be predefined to NCCF by their LU names, some consideration should be given to a backup plan. The POSPOOL number should be chosen higher than the maximum number of logged-on NCCF terminals. If an NCCF terminal is unavailable for some reason (terminal problem, line problem, etc.) it allows the operator to move to a backup terminal, sign on and resume operation. In the case of a hardcopy log, the START and STOP commands may be used to change to a backup printer.
4. It is probably advisable to have at least one local NCCF operator station. In the case that the NCP becomes unavailable, it will be valuable to have a local operator who will be notified and take any recovery action necessary.
5. To terminate NCCF, any NCCF operator with the command authority or the system operator can request a CLOSE. If a CLOSE IMMED is requested, NCCF abends and is terminated immediately. If entered without IMMED (the usual method of termination), each terminal will be sent a message that termination has been requested. Before termination occurs, all operators must logoff. The hardcopy terminal will be automatically logged off when the last operator using it logs off.
6. You MUST code FEATUR2=(MODEL2) (ACF/VTAM R1 and R2), or FEATUR2=(MODEL2,NOEDATS) (ACF/VTAM R3) on ALL 3277 definitions. Default is MODEL1 and NCCF does not support this terminal type.
7. For NCCF in multiple domains you must have a BIND image and CDRSC definitions (see example 14).
8. For an operator with a specific profile to go cross domain you MUST code DOMAINS statement(s) in the PROFILE.
9. Do not use span of control initially. BE VERY CAREFUL about attempting to use span of control along with RRD statements in a multidomain environment. If you are planning to install NCCF in a single domain first then go to multiple domains DO NOT USE SPECIFIC profiles and RRD statements at all. You must CLEARLY understand the NCCF tables before undertaking such an environment. This knowledge may be gained from the NCCF Implementation class.
10. Use DISP=SHR on all VSAM data sets accessed by NCCF. Even though the data set may not be sharable from an application use, the data set can be REPRO'd or restored if it is not in use. This allows data base recovery with out stopping NCCF.

INSTALLATION CONSIDERATIONS FOR SPECIFIC PROFILES

Five things must be done in order to implement SPECIFIC profiles and span of control.

1. You must code MAXSPAN in the DSIDMN member, otherwise, NCCF will not read the DSISPN member. This number should be a multiple of 8 and MUST be greater than or equal to the number of unique span names. If you do not do this you will get error message DSI025I, which means that NCCF will initialize but with unpredictable results.
2. You must code ISPAN and/or SPAN statements in the PROFILE.
3. You must code AUTH CTL=SPECIFIC or let it default.
4. You must place SPANLIST statements in member DSISPN which point to the VTAM major node name. Failure to find a major node in VTAMLST will terminate NCCF initialization.
5. You must code SPAN= on EVERY resource in EVERY node which you want placed under control of an operator using a specific profile. NOTE: These five steps will cause the Authorization and Resource Table (ART) to be built in memory. It is sorted alphabetically after the names are read from VTAMLST. Duplicate names are merged into a single entry. If you leave off SPAN= from any node name (LINE, PU, or LU) then NCCF will not place the name in the ART. If a name is not in the ART then an operator using a specific profile can NEVER reference the resource.

CONSIDERATIONS FOR INSTALLING USER CLISTS

You can distinguish 3 different kinds of CLISTS:

1. Abbreviation for network commands (VTAM, NCCF, NPDA). Example: ACT for VARY NET,ACT,ID=
2. HELP CLISTS which give online support to the operator by writing explanations to the operator station. Example: SENSE xxxx , which explains the SNA sense code entered.
3. Editing VTAM messages. NCCF intercepts those VTAM messages, the numbers of which are used as a CLIST name (e.g., IST079I). The message can be suppressed or edited. Every part of the message separated by a blank is treated as a positional parameter and can thus be picked up.

There is one restriction on multiple line messages with different message numbers. NCCF displays all unchanged messages before the edited ones, which means that the order of the messages is changed. You need to edit none, or all, or only the last ones.

Only the names of ISTxxxx CLISTS have to be put in DSICMD. This implies that NCCF has to be restarted before changed ISTxxxx CLISTS become effective.

ADDING OPERATORS TO AN EXISTING SYSTEM

When you add operators to an existing NCCF system you must do the following:

1. Add OPERATOR and PROFILEN statements to the member DSIOPF.
2. Add additional PROFILE statements to member DSIPRF.
3. If you are adding terminals then add POS statements to the member DSIDMN or increase the POSPOOL number.
4. If MSNF is installed you may have to increase the number specified for CDMNSESS in the member DSIDMN in all other domains. The CDMNSESS parameter tells NCCF the number of operators from other domains who may issue the "START DOMAIN=" command directed to this domain. Suppose you are adding an operator to NCF10 and this operator may start sessions with NCF11 and NCF12. Then the CDMNSESS parameter in the member DSIDMN must be increased by one in both NCF11 and NCF12. This parameter defaults to zero. If you omit this parameter, or specify a number which is too low, then NCCF may issue the message "DSI046I UNABLE TO START SESSION FOR" when the operator issues the "START DOMAIN" command.
5. You may have to increase the number of ACBs defined to VTAM by increasing the number of APPL statements to allow for additional active tasks.

NCCF INSTALLATION EXAMPLES

DSIOPF Example

```
*****  
./ ADD NAME=DSIOPF  
NETOP OPERATOR PASSWORD=NETOP  
      PROFILEN PROFGLOB  
TECHOP OPERATOR PASSWORD=TECHOP  
      PROFILEN PROFGLOB  
NPDAOP OPERATOR PASSWORD=NPDAOP  
      PROFILEN PROFNPDA  
NET1 OPERATOR PASSWORD=NET1  
      PROFILEN PROFSPAN  
OPER1 OPERATOR PASSWORD=CNM  
      PROFILEN PROFSEC  
OPER2 OPERATOR PASSWORD=CNM  
      PROFILEN PROFSEC  
IBMCE OPERATOR PASSWORD=IBMCE  
      PROFILEN PROFIBM  
HELP OPERATOR PASSWORD=HELP  
      PROFILEN PROFRES  
WTCCNM1 OPERATOR PASSWORD=CNM  
        PROFILEN PROFSEC  
WTCCNM2 OPERATOR PASSWORD=CNM  
        PROFILEN PROFSEC  
DEMO OPERATOR PASSWORD=DEMO  
      PROFILEN PROFGLOB  
CICS1 OPERATOR PASSWORD=CICS  
      PROFILEN PCICS  
CICS2 OPERATOR PASSWORD=CICS  
      PROFILEN PCICS  
IMS1 OPERATOR PASSWORD=IMS  
      PROFILEN PIMS  
IMS2 OPERATOR PASSWORD=IMS  
      PROFILEN PIMS  
DISC OPERATOR PASSWORD=DISC  
      PROFILEN PDISC  
      END  
*****
```

Examples of Profiles Pointed to by PROFILEN of DSIOPE

```
./ ADD NAME=PCICS
PCICS   PROFILE IC=LCICSP
        AUTH MSGRECVR=NO,CTL=SPECIFIC
        ISPAN SPH11L
        OPCLASS 4
        END
```

```
./ ADD NAME=PDISC
PDISC   PROFILE IC=DISC
        OPCLASS 4
        END
```

```
./ ADD NAME=PIMS
PIMS    PROFILE IC=LIMSP
        AUTH MSGRECVR=NO,CTL=SPECIFIC
        ISPAN SPH11L
        OPCLASS 4
        END
```

```
./ ADD NAME=PROFGLOB
PROFGLOB PROFILE IC=LOGONX
PROFGLOB AUTH MSGRECVR=YES,CTL=GLOBAL
        END
```

```
./ ADD NAME=PROFIBM
PROFIBM PROFILE IC=LOGONT
PROFIBM AUTH MSGRECVR=NO,CTL=GLOBAL
        OPCLASS 2
```

```
./ ADD NAME=PROFNPDA
PROFNPDA PROFILE IC=LOGONNPDA
PROFNPDA AUTH MSGRECVR=NO,CTL=GLOBAL
        END
```

```
./ ADD NAME=PROFRES
PROFRES PROFILE IC=LHELP
        AUTH CTL=GLOBAL,MSGRECVR=NO
        OPCLASS 4
        END
```

```
./ ADD NAME=PROFSEC
PROFSEC PROFILE IC=LOGONT
PROFSEC AUTH MSGRECVR=NO,CTL=GLOBAL
        OPCLASS 3
        END
```

```
./ ADD NAME=PROFSPAN
PROFSPAN PROFILE IC=LOGONT
PROFSPAN AUTH MSGRECVR=YES,CTL=SPECIFIC
        ISPAN SPH11L
        END
```

Note: ISPAN SPH11L : Controls only node H11L.
OPCLASS 2 : Nonrestricted and NPDA cmds only.
OPCLASS 3 : Nonrestricted cmds only.
OPCLASS 4 : Can only issue display cmds.

DSISPN Example

```
*****  
./ ADD NAME=DSISPN  
H11L SPANLIST SPH11L  
END
```

Note: This member should be specified even if span is not used.

For example:

```
./ ADD NAME=DSISPN  
END
```

```
*****
```

DSIDMN Example

```
*****  
./ ADD NAME=DSIDMN  
      NCCFID DOMAINID=NCF11,SUPPCHAR=?  
      NCCFIC IC=IC11  
      OPTIONS VERIFY=NORMAL  
      ACCESS METHOD=V  
      MAXSPAN 8  
NCCFLOG TASK MOD=DSIZDST,TSKID=DSILOG,PRI=2,MEM=DSILOGBK,INIT=Y  
      POS H11L42D,T140A0F8  
      POSPOOL 25  
NCF10 RRD  
NCF11 RRD  
NCF12 RRD  
      CDMNSESS 25  
      HARDCOPY H11L42F  
      HARDCOPY T14022K2,T14020C2  
      MAXABEND 20  
      MAXSPAN 8  
      MAXLOGON 3  
      END
```

Note: It is not necessary to specify the POS stations.

Note: IC11 specifies a command list that is used as an initial command.
In this manual it is used and is given in the NPDA Chapter.

Note: NCF10 and NCF12 are optional statements, it specifies the names
of domains authorized for session establishment.

```
*****
```

DSICMD Example

This member includes all standard NCCF and VTAM commands. It also has some user defined command lists. A clist definition must have MOD=DSICCP coded. Whenever a clist name is found the module DSICCP is invoked. This module processes all clists.

NOTE: Be sure to code ALL immediate commands as shown.

```
./ ADD NAME=DSICMD
*****
* COMMAND LIST MODIFIED FOR NCCF R2 INCLUDING SCOPE CHECKING *
* PHILOSOPHY OF SCOPE CHECKING *
* 1 - CLOSE, SWITCH DSILOG AND MAY USE PPT *
* 2 - NPDA *
* 3 - VTAM MODIFY, REPLY AND VARY *
* 4 - STUDENT OPERATORS *
*****
* PHILOSOPHY OF COMMAND AND OPERAND ABBREVIATION *
* COMMANDS - IN GENERAL - POPULAR EXCEPTIONS E.G. LOG FOR LOGOFF *
* FIRST CHARACTER IF UNIQUE *
* FIRST TWO CHARACTERS IF NOT UNIQUE *
* OPERANDS - SIMPLE COMMANDS (ONE OR TWO KEYWORDS) *
* FIRST CHARACTER IF POSSIBLE - E.G. I FOR IMMED ON RESET *
* ALTERNATE OPERAND IF POPULAR - E.G. ON AND OFF FOR AUTOWRAP *
* OPERANDS - COMPLEX COMMANDS (MANY KEYWORDS) *
* FIRST TWO CHARACTERS OF KEYWORD ALWAYS *
* FIRST SINGLE CHARACTER IF POPULAR - E.G. S FOR STATUS IN LIST *
* FIRST THREE CHARACTERS OF VALUE ALWAYS *
*****
```

```
*****
* ATTENTION KEY ASSIGNMENTS
*
* *****
* * CLEAR * PA1 * PA2 * PF1/13 * PF2/14 * PF3/15 *
* * * * *
* * CLEAR * AGAIN * CLEAR * HELPS * INFO * VNCA *
* * * * *
* * * * *
* * PF4/16 * PF5/17 * PF6/18 *
* * * * *
* * OCCF * RESET * TARA *
* * * * *
*Note: User EXIT 01 changes
* the field created by
* the PF-keys to: *****
* 1/13 $A $M * PF7/19 * PF8/20 * PF9/21 *
* 2/14 * n/c * * *
* 3/15 $C $D * * *
* 4-7/16-19 n/c * * *
* 8/20 $H $T * * *
* 9/21 $I $U *****
* 12/24 $L $X * PF10/22 * PF11/23 * PF12/24 *
* * * * *
* * NPDA * AUTOWRAP * PFK *
* * * * *
* * * * *
*****
*
* ENTER W/O DATA FUNCTION
*
* ' CMDMDL MOD=DSINDP,TYPE=I,CTL=S ENTER KEY W/O DATA (X'7D')
* CMDCLASS 1,2,3,4 TO ENSURE 4 IS AVAILABLE FOR OP PROFILE
*
* AGAIN
*
* AGAIN CMDMDL MOD=DSIAGAIN
* = CMDMDL MOD=DSIAGAIN
* % CMDMDL MOD=DSIAGAIN,CTL=S PA 1 KEY
*
* AT
*
* AT CMDMDL MOD=DSIATP
* PARMSYN ID,I
* PARMSYN PPT,P
* PPT KEYCLASS 1
*
* AUTOWRAP
*
* AUTOWRAP CMDMDL MOD=DSIAWP,TYPE=B
* PARMSYN NO,N
* PARMSYN NO,OFF
* PARMSYN YES,Y
* PARMSYN YES,ON
* PARMSYN FULL,F
* A CMDMDL MOD=DSIAWP,TYPE=I
* PARMSYN NO,N
* PARMSYN NO,OFF
* PARMSYN YES,Y
* PARMSYN YES,ON
* PARMSYN FULL,F
* # CMDMDL MOD=DSIAWP,TYPE=I,CTL=S PFK 11
* PARMSYN NO,N
* PARMSYN NO,OFF
* PARMSYN YES,Y
* PARMSYN YES,ON
* PARMSYN FULL,F
* CMDMDL MOD=DSIAWP,TYPE=I,CTL=S PFK 23
* PARMSYN NO,N
* PARMSYN NO,OFF
* PARMSYN YES,Y
* PARMSYN YES,ON
```

```

AUTO      PARMSYN  FULL,F
          CMDMDL  MOD=DSIAWP,TYPE=R
          PARMSYN NO,N
          PARMSYN NO,OFF
          PARMSYN YES,Y
          PARMSYN YES,ON
          PARMSYN FULL,F
*
* CANCEL
*
CANCEL    CMDMDL  MOD=DSICAP,TYPE=I
*
* CLEAR FUNCTION
*
CLEAR     CMDMDL  MOD=DSICKP,TYPE=B
CLR       CMDMDL  MOD=DSICKP,TYPE=R
          CMDMDL  MOD=DSICKP,TYPE=I,CTL=S CLEAR KEY
          >      CMDMDL  MOD=DSICKP,TYPE=I,CTL=S PA 2 KEY
*
* CLOSE
*
CLOSE     CMDMDL  MOD=DSICLP,TYPE=I
          PARMSYN DUMP,D
          PARMSYN IMMED,I
          CMDCLASS 1
CL        CMDMDL  MOD=DSICLP,TYPE=I
          PARMSYN DUMP,D
          PARMSYN IMMED,I
          CMDCLASS 1
*
* DISPLAY - VTAM
*
DISPLAY   CMDMDL  MOD=DSIVTP
D         CMDMDL  MOD=DSIVTP
*
* EVERY
*
EVERY     CMDMDL  MOD=DSIEVP
          PARMSYN ID,I
          PARMSYN PPT,P
          KEYCLASS 1
PPT       CMDMDL  MOD=DSIEVP
E         PARMSYN ID,I
          PARMSYN PPT,P
          KEYCLASS 1
PPT
*
* GO
*
GO        CMDMDL  MOD=DSIGOP,TYPE=I
*
* INPUT
*
INFO      CMDMDL  MOD=BLGI1I1,TYPE=R      INFO COMMAND PROCESSOR
2         CMDMDL  MOD=BLGI1I1,TYPE=R,CTL=S PFK 2
B         CMDMDL  MOD=BLGI1I1,TYPE=R,CTL=S PFK 14
INPUT     CMDMDL  MOD=DSIINP
I         CMDMDL  MOD=DSIINP
*
* LIST
*
LIST      CMDMDL  MOD=DSISHP
          PARMSYN ',ME
          PARMSYN ALL,A
          PARMSYN CLIST,C
          PARMSYN CLIST,CL
          PARMSYN DST,D
          PARMSYN DST,DS
          PARMSYN NNT,N
          PARMSYN NNT,CROSS
          PARMSYN NNT,X
          PARMSYN OP,O
          PARMSYN PROFILE,PR
          PARMSYN PROFILES,P
          PARMSYN PROFILES,PRO
          PARMSYN SCOPE,SC

```

```

PARMSYN SPAN,SP
PARMSYN SPANS,SPA
PARMSYN SPANS,SPS
PARMSYN STATUS,S
PARMSYN STATUS,ST
PARMSYN TASKS,T
PARMSYN TASKS,TAS
PARMSYN TIMER,TI
OP
ALL
CLIST
L
KEYCLASS
VALCLASS 1
KEYCLASS 1
CMDMDL MOD=DSISHP
PARMSYN '',ME
PARMSYN ALL,A
PARMSYN CLIST,C
PARMSYN CLIST,CL
PARMSYN DST,D
PARMSYN DST,DS
PARMSYN NNT,N
PARMSYN NNT,CROSS
PARMSYN NNT,X
PARMSYN OP,O
PARMSYN PROFILE,PR
PARMSYN PROFILES,P
PARMSYN PROFILES,PRO
PARMSYN SCOPE,SC
PARMSYN SPAN,SP
PARMSYN SPANS,SPA
PARMSYN SPANS,SPS
PARMSYN STATUS,S
PARMSYN STATUS,ST
PARMSYN TASKS,T
PARMSYN TASKS,TAS
PARMSYN TIMER,TI
OP
ALL
CLIST
*
* LOGOFF
*
LOGOFF CMDMDL MOD=DSIENP
LOG CMDMDL MOD=DSIENP
*
* MODIFY - VTAM
*
MODIFY CMDMDL MOD=DSIVTP
CMDCLASS 3,1
F
CMDMDL MOD=DSIVTP
CMDCLASS 3,1
*
* MOVE
*
MOVE CMDMDL MOD=DSISWP
PARMSYN FROM,F
PARMSYN TO,T
MO
CMDMDL MOD=DSISWP
PARMSYN FROM,F
PARMSYN TO,T
*
* MSG
*
MSG CMDMDL MOD=DSIMGP
PARMSYN ALL,A
PARMSYN LOG,L
PARMSYN SYSOP,S
M
CMDMDL MOD=DSIMGP
PARMSYN ALL,A
PARMSYN LOG,L
PARMSYN SYSOP,S
*
* PAUSE
*
PAUSE CMDMDL MOD=DSIPSP FOR COMPATIBILITY ONLY
*
* PURGE

```



```

*
PURGE      CMDMDL      MOD=DSIPRP
          PARMSYN      ALL,A
          PARMSYN      DST,D
          PARMSYN      DST,DS
          PARMSYN      OP,0
          PARMSYN      PPT,P
          PARMSYN      REQ,R
          PARMSYN      TIMER,T
          PARMSYN      TIMER,TI
OP
P          KEYCLASS    1
          CMDMDL      MOD=DSIPRP
          PARMSYN      ALL,A
          PARMSYN      DST,D
          PARMSYN      DST,DS
          PARMSYN      OP,0
          PARMSYN      PPT,P
          PARMSYN      REQ,R
          PARMSYN      TIMER,T
          PARMSYN      TIMER,TI
OP
PUR        KEYCLASS    1
          CMDMDL      MOD=DSIPRP
          PARMSYN      ALL,A
          PARMSYN      DST,D
          PARMSYN      DST,DS
          PARMSYN      OP,0
          PARMSYN      PPT,P
          PARMSYN      REQ,R
          PARMSYN      TIMER,T
          PARMSYN      TIMER,TI
OP
          KEYCLASS    1
*
* REPLY - VTAM
*
REPLY      CMDMDL      MOD=DSIREP
          CMDCLASS    3,1
R          CMDMDL      MOD=DSIREP
          CMDCLASS    3,1
*
* RESET
*
RESET      CMDMDL      MOD=DSIRSP,TYPE=I
          PARMSYN      DUMP,D
          PARMSYN      IMMED,I
5          CMDMDL      MOD=DSIRSP,TYPE=I,CTL=S      PFK 5
          PARMSYN      DUMP,D
          PARMSYN      IMMED,I
E          CMDMDL      MOD=DSIRSP,TYPE=I,CTL=S      PFK 17
          PARMSYN      DUMP,D
          PARMSYN      IMMED,I
*
* ROUTE
*
ROUTE      CMDMDL      MOD=DSIRTP
RO         CMDMDL      MOD=DSIRTP
*
* START
*
START      CMDMDL      MOD=DSISRP
          PARMSYN      ALL,A
          PARMSYN      DOMAIN,D
          PARMSYN      DOMAIN,DO
          PARMSYN      HCL,H
          PARMSYN      HCL,HC
          PARMSYN      HCL,PR
          PARMSYN      OP,0
          PARMSYN      RESOURCE,R
          PARMSYN      RESOURCE,RE
          PARMSYN      SPAN,S
          PARMSYN      SPAN,SP
          PARMSYN      TASK,T
          PARMSYN      TASK,TA
          PARMSYN      TERM,TE
          PARMSYN      TERM,LU
OP
          KEYCLASS

```

```

ALL      VALCLASS 1
TASK    KEYCLASS 1
S       CMDMDL  MOD=DSISRP
        PARMSYN ALL,A
        PARMSYN DOMAIN,D
        PARMSYN DOMAIN,DO
        PARMSYN HCL,H
        PARMSYN HCL,HC
        PARMSYN HCL,PR
        PARMSYN OP,0
        PARMSYN RESOURCE,R
        PARMSYN RESOURCE,RE
        PARMSYN SPAN,S
        PARMSYN SPAN,SP
        PARMSYN TASK,T
        PARMSYN TASK,TA
        PARMSYN TERM,TE
        PARMSYN TERM,LU
OP      KEYCLASS
ALL     VALCLASS 1
TASK   KEYCLASS 1
* STOP
STOP   CMDMDL  MOD=DSISTP
        PARMSYN ALL,A
        PARMSYN DOMAIN,D
        PARMSYN DOMAIN,DO
        PARMSYN FORCE,F
        PARMSYN FORCE,FO
        PARMSYN HCL,H
        PARMSYN HCL,HC
        PARMSYN HCL,PR
        PARMSYN OP,0
        PARMSYN RESOURCE,R
        PARMSYN RESOURCE,RE
        PARMSYN SPAN,S
        PARMSYN SPAN,SP
        PARMSYN TASK,T
        PARMSYN TASK,TA
        PARMSYN TERM,TE
        PARMSYN TERM,LU
FORCE  KEYCLASS 1
OP     KEYCLASS
ALL    VALCLASS 1
* SWITCH
SWITCH CMDMDL  MOD=DSISWCP,TYPE=RD
        PARMSYN DSILOG,L
        PARMSYN DSILOG,LOG
        PARMSYN DSTASKG,DST
        PARMSYN P,PRI
        PARMSYN S,SEC
        PARMSYN T,TERM
SW     CMDCLASS 1
        CMDMDL  MOD=DSISWCP,TYPE=RD
        PARMSYN DSILOG,L
        PARMSYN DSILOG,LOG
        PARMSYN DSTASKG,DST
        PARMSYN P,PRI
        PARMSYN S,SEC
        PARMSYN T,TERM
        CMDCLASS 1
*
* VARY  - VTAM
*
VARY   CMDMDL  MOD=DSIVTP
        CMDCLASS 3,1
V      CMDMDL  MOD=DSIVTP
        CMDCLASS 3,1
*****
*      NCCF COMMANDS
*****
NODATA CMDMDL MOD=DSINDP,TYPE=B
'      CMDMDL MOD=DSINDP,TYPE=I,CTL=S  ENTER KEY =  UNLOCK OUTPUT
>      CMDMDL MOD=DSINDP,TYPE=I,CTL=S  PA2 KEY  =  UNLOCK OUTPUT
*****
*****

```

```

*          RISC MISCELLANEOUS CLISTS          *
*****
ACTION    CMDMDL  MOD=DSICCP
BR        CMDMDL  MOD=DSICCP
WHO       CMDMDL  MOD=DSICCP
*****
*          RISC VTAM CLISTS          *
*****
ACQ       CMDMDL  MOD=DSICCP
ACT       CMDMDL  MOD=DSICCP
AOF CMD   CMDMDL  MOD=DSICCP
APPLS    CMDMDL  MOD=DSICCP
BFRS     CMDMDL  MOD=DSICCP
BFRUSE   CMDMDL  MOD=DSICCP
BUFFERS  CMDMDL  MOD=DSICCP
CDRMS    CMDMDL  MOD=DSICCP
CDRSCS   CMDMDL  MOD=DSICCP
CLSTRS   CMDMDL  MOD=DSICCP
DRDS     CMDMDL  MOD=DSICCP
DROUTE   CMDMDL  MOD=DSICCP
DSTOR    CMDMDL  MOD=DSICCP
DTSO     CMDMDL  MOD=DSICCP
DYNA     CMDMDL  MOD=DSICCP
ERST     CMDMDL  MOD=DSICCP
IMR      CMDMDL  MOD=DSICCP
INACT    CMDMDL  MOD=DSICCP
IOPD     CMDMDL  MOD=DSICCP
LINES    CMDMDL  MOD=DSICCP
LL2      CMDMDL  MOD=DSICCP
MAJNODES CMDMDL  MOD=DSICCP
NCPSTOR  CMDMDL  MOD=DSICCP
NODE     CMDMDL  MOD=DSICCP
NODES    CMDMDL  MOD=DSICCP
NOSTAT   CMDMDL  MOD=DSICCP
NOVTAMI  CMDMDL  MOD=DSICCP
PATHS    CMDMDL  MOD=DSICCP
PATHTAB  CMDMDL  MOD=DSICCP
PENDING  CMDMDL  MOD=DSICCP
REDIAL   CMDMDL  MOD=DSICCP
REL      CMDMDL  MOD=DSICCP
STATIONS CMDMDL  MOD=DSICCP
STATS    CMDMDL  MOD=DSICCP
STATUS   CMDMDL  MOD=DSICCP
ST       CMDMDL  MOD=DSICCP
TERMS    CMDMDL  MOD=DSICCP
TNSTAT   CMDMDL  MOD=DSICCP
TRACE    CMDMDL  MOD=DSICCP
TRLINE   CMDMDL  MOD=DSICCP
U        CMDMDL  MOD=DSICCP
VRST     CMDMDL  MOD=DSICCP
VTAMI    CMDMDL  MOD=DSICCP
VTERM    CMDMDL  MOD=DSICCP
*****
*          USER COMMAND PROCESSORS          *
*****
DEL       CMDMDL  MOD=DPCDEL,TYPE=B
DELETE   CMDMDL  MOD=DPCDEL,TYPE=B
FS       CMDMDL  MOD=FS,TYPE=R
DSIOPF   KEYCLASS 1
=OTHER   KEYCLASS 1,2,3,4
MVS      CMDMDL  MOD=DPCMVS34          MVS COMMUNICATION VIA SVC34
        CMDCLASS 1,2,3
MVS2     CMDMDL  MOD=DPCMVS          MVS COMMUNICATION
        CMDCLASS 1,2,3
IST077I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST088I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST093I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST097I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST129I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST169I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST241I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST246I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST264I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST382I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST521I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST

```

```

IST523I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST526I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST527I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST528I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST530I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST531I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST532I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST568I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST569I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST570I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST621I  CMDMDL  MOD=DSICCP          SAMPLE VTAM MESSAGE CLIST
IST679A  CMDMDL  MOD=DSICCP          VTAM DIAL OUT MESSAGE
*****
* TEST COMMAND PROCESSORS
*****
SHOW      CMDMDL  MOD=DPCSHOW
          CMDCLASS 1
TIMECHK   CMDMDL  MOD=DSITFMAT      TIME DATE CHECK DSIDATIM
          CMDCLASS 1
*****
* HELP PF KEYS
*****
HA        CMDMDL  MOD=DSICCP
HB        CMDMDL  MOD=DSICCP
HC        CMDMDL  MOD=DSICCP
HD        CMDMDL  MOD=DSICCP
HE        CMDMDL  MOD=DSICCP
HF        CMDMDL  MOD=DSICCP
HG        CMDMDL  MOD=DSICCP
HH        CMDMDL  MOD=DSICCP
HI        CMDMDL  MOD=DSICCP
HJ        CMDMDL  MOD=DSICCP
HK        CMDMDL  MOD=DSICCP
HL        CMDMDL  MOD=DSICCP
HM        CMDMDL  MOD=DSICCP
HN        CMDMDL  MOD=DSICCP
HO        CMDMDL  MOD=DSICCP
HP        CMDMDL  MOD=DSICCP
HQ        CMDMDL  MOD=DSICCP
HR        CMDMDL  MOD=DSICCP
HS        CMDMDL  MOD=DSICCP
HT        CMDMDL  MOD=DSICCP
HU        CMDMDL  MOD=DSICCP
HV        CMDMDL  MOD=DSICCP
HW        CMDMDL  MOD=DSICCP
HX        CMDMDL  MOD=DSICCP
*****
* NCCF PF KEYS (DEFAULT)
*****
PA        CMDMDL  MOD=DSICCP
PB        CMDMDL  MOD=DSICCP
PC        CMDMDL  MOD=DSICCP
PD        CMDMDL  MOD=DSICCP
PE        CMDMDL  MOD=DSICCP
PF        CMDMDL  MOD=DSICCP
PG        CMDMDL  MOD=DSICCP
PH        CMDMDL  MOD=DSICCP
PI        CMDMDL  MOD=DSICCP
PJ        CMDMDL  MOD=DSICCP
PK        CMDMDL  MOD=DSICCP
PL        CMDMDL  MOD=DSICCP
PM        CMDMDL  MOD=DSICCP
PN        CMDMDL  MOD=DSICCP
PO        CMDMDL  MOD=DSICCP
PP        CMDMDL  MOD=DSICCP
PQ        CMDMDL  MOD=DSICCP
PR        CMDMDL  MOD=DSICCP
PS        CMDMDL  MOD=DSICCP
PT        CMDMDL  MOD=DSICCP
PU        CMDMDL  MOD=DSICCP
PV        CMDMDL  MOD=DSICCP
PW        CMDMDL  MOD=DSICCP
PX        CMDMDL  MOD=DSICCP
*****
* NCCF PF KEYS (S Options)
*****

```

```

*****
$A      CMDMDL  MOD=DSICCP
$C      CMDMDL  MOD=DSICCP
$H      CMDMDL  MOD=DSICCP
$I      CMDMDL  MOD=DSICCP
$L      CMDMDL  MOD=DSICCP
$M      CMDMDL  MOD=DSICCP
$O      CMDMDL  MOD=DSICCP
$T      CMDMDL  MOD=DSICCP
$U      CMDMDL  MOD=DSICCP
$X      CMDMDL  MOD=DSICCP
      END

```

DSILOGBK Example

```

*****
./ ADD NAME=DSILOGBK
  DSTINIT PDDNM=DSILOGP,SDDNM=DSILOGS,DSRBO=1,XITVN=DSIWLMED,FUNCT=VSAM
  END
*****

```

User Command List (CLISTS) Examples

```

*****

```

ACT CLIST to Vary Active a Resource

```

./ ADD NAME=ACT
  CLIST
  &CONTROL ERR
  * VARY NET,ACT,ID=(NODE NAME),SCOPE=(COMP,ONLY,ALL,U)
  &IF .&1 EQ . &THEN &GOTO -TELL1
  &IF .&1 EQ .? &THEN &GOTO -TELL2
  &A = &1
  &B = &2
  -TELL4
  &SCOPE = &B
  &IF .&SCOPE EQ . &THEN &SCOPE = U
  &IF &SCOPE EQ A &THEN &SCOPE = ALL
  &IF &SCOPE EQ ALL &THEN &GOTO -GO
  &IF &SCOPE EQ C &THEN &SCOPE = COMP
  &IF &SCOPE EQ COMP &THEN &GOTO -GO
  &IF &SCOPE EQ O &THEN &SCOPE = ONLY
  &IF &SCOPE EQ ONLY &THEN &GOTO -GO
  &IF &SCOPE EQ LOAD &THEN &GOTO -LOAD
  &IF &SCOPE NE U &THEN &GOTO -TELL2
  -GO
  REACT ID=&1,YES,SUPMSG
  VARY NET,ACT,ID=&A,SCOPE=&SCOPE
  &EXIT
  -LOAD
  VARY NET,ACT,ID=&A,LOAD=YES
  &EXIT
  -TELL1
  &WRITE * INPUT REQUIRED, PRESS ENTER.
  -TELL2
  FS 4 TUCLIACT
  &EXIT
*****

```

```
*****
```

BFRS CLIST to Display Buffers

```
./ ADD NAME=BFRS
  CLIST
  &CONTROL ERR
  BFRUSE &1
  &EXIT
*****
*****
```

BFRUSE CLIST to Display Buffers

```
./ ADD NAME=BFRUSE
  CLIST
  &CONTROL ERR
  &IF .&1 EQ .? &THEN &GOTO -TELL
  * DISPLAY NET,BFRUSE
  &WRITE D NET,BFRUSE
  D NET,BFRUSE
  &EXIT
  -TELL
  HELPBFRU
*****
*****
```

CLSTRS CLIST to Display Clusters

```
./ ADD NAME=CLSTRS
  CLIST
  &CONTROL ERR
  * DISPLAY NET,CLSTRS,ACT|EVERY|INACT
  &OPT = &1
  &IF .&OPT EQ .? &THEN &GOTO -TELL
  &IF .&OPT EQ . &THEN &OPT = EVERY
  &IF &OPT EQ A &THEN &OPT = ACT
  &IF &OPT EQ ACT &THEN &GOTO -GO
  &IF &OPT EQ E &THEN &OPT = EVERY
  &IF &OPT EQ EVERY &THEN &GOTO -GO
  &IF &OPT EQ I &THEN &OPT = INACT
  &IF &OPT EQ INACT &THEN &GOTO -GO
  &GOTO -TELL
  -GO
  &WRITE DISPLAY NET,CLSTRS,&OPT
  DISPLAY NET,CLSTRS,&OPT
  &EXIT
  -TELL
  HELPCLST
*****
```

DROUTE CLIST to Display Explicit and Virtual Routes

```
./ ADD NAME=DROUTE
  CLIST
  &CONTROL ERR
  &OPT2 = ER=ALL
  &TEST = TEST=NO
  &P1 = &1
  &IF .&P1 EQ . &THEN &GOTO -HELP
  &IF .&P1 EQ .? &THEN &GOTO -HELP
  &IF &PARMCNT EQ 1 &THEN &GOTO -CMD
  *
  * MORE THAN 1 PARM
  *
  &P2 = &2
  &IF .&P2 EQ . &THEN &P2 = ER=ALL
  &P213 = &SUBSTR &P2 1 3
  &IF &P213 NE COS &THEN &GOTO -GOON1
  *
  * parm2 is COS=cosname
  *
  &NAME = &SUBSTR &P2 5
  &OPT2 = COSNAME=&NAME
  &GOTO -NEXTPARM
  -GOON1
  &IF &P213 NE ER= &THEN &GOTO -GOON2
  *
  * parm2 is ER=n
  *
  &OPT2 = &P2
  &GOTO -NEXTPARM
  -GOON2
  &IF &P213 NE VR= &THEN &GOTO -GOON3
  *
  * parm2 is VR=n
  *
  &OPT2 = &P2
  &GOTO -NEXTPARM
  -GOON3
  &IF &P2 NE TEST &THEN &GOTO -ERROR
  *
  * parm2 is TEST
  *
  &TEST = TEST=YES
  &GOTO -CMD
  -NEXTPARM
  *
  * parm3 must be TEST or TEST=NO or omitted
  *
  &TEST = TEST=NO
  &P3 = &3
  &IF .&P3 EQ . &THEN &GOTO -CMD
  &IF .&P3 EQ .TEST=NO &THEN &GOTO -CMD
  &IF .&P3 NE .TEST &THEN &GOTO -ERROR
  &TEST = TEST=YES
  -CMD
  &WRITE DISPLAY NET,ROUTE,DESTSUB=&1,&OPT2,&TEST
  DISPLAY NET,ROUTE,DESTSUB=&1,&OPT2,&TEST
  &EXIT
  -ERROR
  &WRITE you entered the command incorrectly
  -HELP
  HELPDROU
  *****
```

INACT CLIST to Deactivate Resources

```
./ ADD NAME=INACT
&CONTROL ERR
* V NET,INACT,ID=xxxx,M WHERE M IS I, F, N OR R
&IF .&1 = . &THEN &GOTO -A3
&IF .&1 = .? &THEN &GOTO -A2
&A = &1
&B = &2
&GOTO -A4
-A2
CLR1
&GOTO -TELL
-A3
HELPINAC
&EXIT
&BEGWRITE -END1
* to continue enter GO nodename,<opt> to inactivate a resource
* CANCEL to exit
*****
-END1
&PAUSE VARS &A &B
-A4
&OPT = &B
&IF .&OPT EQ . &THEN &OPT = I
&IF &OPT EQ I &THEN &GOTO -GO
&IF &OPT EQ F &THEN &GOTO -GO
&IF &OPT EQ N &THEN &GOTO -GO2
&IF &OPT EQ R &THEN &GOTO -GO
&WRITE Specification error in opt operand " &OPT " is invalid
-TELL
&BEGWRITE -END2
HELPINAC
* enter INACT without parms for prompted operation
*****
-END2
&EXIT
-GO
REACT ID=&1,NO,SUPMSG
VARY NET,INACT,ID=&A,&OPT
&EXIT
-GO2
REACT ID=&1,NO,SUPMSG
&WRITE VARY NET,INACT,ID=&A
VARY NET,INACT,ID=&A
*****
```


XX

HELPBFRU CLIST

```
./ ADD NAME=HELPBFRU
  CLIST
&CONTROL ERR
FS 4 TUCLIBFR
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

IST077I CLIST to Edit a VTAM Message

```
./ ADD NAME=IST077I
  CLIST
&CONTROL ERR
* IST077I SIO=nnnnnnnn CUA=cuu
* NOTE THAT ARITHMETIC VARIABLES REMOVE LEADING ZEROS
* NOTE YOU CANNOT SUBSTR &1
&SIO = &1
&SIO = &SUBSTR &SIO 5
&SIO = &SIO + 0
&CUA = &2
&CUA = &SUBSTR &CUA 5
&BEGWRITE SUB -END2
IST077I Start I/O count = &SIO ; System address = &CUA
-END2
&EXIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

IST097I CLIST to Suppress a VTAM Message

```
./ ADD NAME=IST097I
  CLIST
&CONTROL ERR
&EXIT
*IST097I DISPLAY ACCEPTED SUPPRESSED
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

IST679A CLIST to Dial Out Message

```

./ ADD NAME=IST679A
  CLIST
  &CONTROL ERR
  &BEGWRITE SUB -END
  * IST679a &1 &2 &3 &4 &5 &6 &7 &8 &9 &10
  -END
  &EXIT
  CP1750 1750 IST679A &1 &2 &3 &4 &5 &6 &7 &8 &9 &10
  &WRITE 1750 Dial requested for line &5 Tel. No. &7
  *****
  *****

```

TUCLIBFR CLIST

```

./ ADD NAME=TUCLIBFR
  HELP=HPDHELP
  **
  TUCLIBFR          TUTORIAL FOR BFRUSE (VTAM CLIST)

  This CLIST should be invoked to display
  information about ACF/VTAM buffers.

```

Correct formats:

Generated VTAM command:

```

BFRS
BFRUSE
BUFFERS

```

```

D NET,BFRUSE
D NET,BFRUSE
D NET,BFRUSE

```

```

VTAM CLIST (PF9) ==>__ PF3: END
*****

```

NCCF APPL Statements

NCCF11 and NCCF11PPT are activated when NCCF is started. The other subtasks become active as operators sign on. This definition allows ten operators and/or hardcopy logs to be active concurrently.

```
./ ADD NAME=A11NCF
      VBUILD TYPE=APPL
NCF11      APPL AUTH=(ACQ,PASS),MODETAB=NCCFXDOM,EAS=1
NCF11PPT   APPL AUTH=(PPO)
NCF11000   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF11001   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF11002   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF11003   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF11004   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF11005   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF11006   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF11007   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF11008   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF11009   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
```

Note: If a single domain environment is being used code EAS=1 and omit the MODETAB=NCCFXDOM parameter. If used in an MSNF environment EAS should be equal to or greater than the number of domains. This is to allow for NCCF-to-NCCF sessions.

USS Table

```
*****
* This USS table entry allows the operator to sign on to NCCF by
* keying in NCF11. NCF11 is the name on the first APPL statement.
*****
NCF11      USSCMD CMD=NCF11,REP=LOGON,FORMAT=BAL
           USSPARM PARM=APPLID,REP=APPLID,DEFAULT=NCF11
           USSPARM PARM=LOGMODE,REP=LOGMODE,DEFAULT=DSILGMOD
           USSPARM PARM=P1,REP=DATA
```

Note: This same definition can be found in the USSVSE and US3270 uss tables in Chapter 4.

MODE Table Entry

Note: The DSILGMOD entry in the above USSTAB make reference to entries DSILGMOD in MODETABs such as MT3270, MT3274A2, MT3274A3, MT32762, MT32763, MT3287 etc (See Chapter 4).

Example for Definition of VSAM Datasets

Allocation of NCCF LOG Dataset(s)

```
//DEFCATAL JOB MSGLEVEL=1,REGION=1500K
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=A
//SYSIN DD *
  DEF SPACE (VOL(xxxxxxx) -
            CYL(4,1))
  DEF CLUSTER(NAME(NCCFLOGP) -
            INDEXED -
            KEYS (16,0) -
            RECSZ(125,304) -
            FSPC(0,0) -
            REUSE -
            SHR(2 3) -
            CYLINDERS(1) -
            VOL(xxxxxxx) -
            CISZ(4096) -
            IMBED )
  DEF CLUSTER(NAME(NCCFLOGS) -
            INDEXED -
            KEYS (16,0) -
            RECSZ(125,304) -
            FSPC(0,0) -
            REUSE -
            SHR(2 3) -
            CYLINDERS(1) -
            VOL(xxxxxxx) -
            CISZ(4096) -
            IMBED )
/*
```

Note: Modify the definitions of the RECSZ parameters in the VSAM definitions if NPDA will be used. See the NPDA Chapter. Change these parameters from RECSZ(125 304) to RECSZ(125 404) to accommodate the larger NPDA message formats.

NCCF Start Procedure

Note: The following JCL could be used to bring up only NCCF.

```
*****
//NCCF PROC NAME=DSIMNT,
//      RGN=2000K
//ST1   EXEC PGM=&NAME,TIME=1440,REGION=&RGN,PARM=(&BFSZ,&SLSZ),
//      DPRTY=(14,15),PERFORM=6
//SYSPRINT DD   SYSOUT=A
//SYSUDUMP DD   SYSOUT=S
//DSICLD  DD   DSN=EIT.CLISTLIB,DISP=SHR
//DSIPARM DD   DSN=SA11.CLISTLIB,DISP=SHR
//DSIVTAM DD   DSN=RISC.VTAMLST,DISP=SHR
//DSIPRF  DD   DSN=RISC.DSIPRF,DISP=SHR
//      DD   DSN=RISC.VTAMLST,DISP=SHR
//DSILOGP DD   DSN=NCCFLOGP,DISP=SHR,AMP=AMORG
//DSILOGS DD   DSN=NCCFLOGS,DISP=SHR,AMP=AMORG
```

Note: The LOGPRTx steps print the log, COND=EVEN should be coded so the log will print even if NCCF abends or is cancelled. If you forget to print the log and NCCF is started again you will lose data because NCCF starts at the beginning of the file each time.

The STEPLIB DD statement is only required if NCCF modules are not in the Linkedit parm member, or/and if NPDA is included.

```
*****
```

Procedure for Printing Disk Log

```
/**      *** PRINT PRIMARY NCCFLOG ***
//LOGPRTP EXEC PGM=DSIPRT,COND=EVEN
//DSILOG  DD   DSN=NCCFLOGP,DISP=SHR,AMP=AMORG
//DSIINP  DD   DUMMY,DCB=(BLKSIZE=80)
//DSILST  DD   SYSOUT=A,DCB=(BLKSIZE=121,LRECL=121,RECFM=FB)
//SYSPRINT DD   SYSOUT=A
/**      *** PRINT SECONDARY NCCFLOG ***
//LOGPRTS EXEC PGM=DSIPRT,COND=EVEN
//DSILOG  DD   DSN=NCCFLOGS,DISP=SHR,AMP=AMORG
//DSIINP  DD   DUMMY,DCB=(BLKSIZE=80)
//DSILST  DD   SYSOUT=A,DCB=(BLKSIZE=121,LRECL=121,RECFM=FB)
//SYSPRINT DD   SYSOUT=A
*****
```

NCCF-NCCF Cross Domain Session Examples

MODETAB

Note: The NCCFXDOM modetable in Chapter 4 has the definitions for NCCF-to-NCCF sessions, either same domain or crossdomain.

APPL

Here is the APPL definition for NCF10 with the MODETAB parameter coded.

```
./ ADD NAME=A10NCF
      VBUILD TYPE=APPL
NCF10  APPL AUTH=(ACQ,PASS,NVPACE),EAS=1,MODETAB=NCCFXDOM
NCF10PPT APPL AUTH=(PPO),EAS=1
NCF10000 APPL AUTH=(SPO,ACQ,NVPACE),EAS=2,MODETAB=NCCFXDOM
NCF10001 APPL AUTH=(SPO,ACQ,NVPACE),EAS=2,MODETAB=NCCFXDOM
NCF10002 APPL AUTH=(SPO,ACQ,NVPACE),EAS=2,MODETAB=NCCFXDOM
NCF10003 APPL AUTH=(SPO,ACQ,NVPACE),EAS=2,MODETAB=NCCFXDOM
NCF10004 APPL AUTH=(SPO,ACQ,NVPACE),EAS=2,MODETAB=NCCFXDOM
```

Note: MODETAB=NCCFXDOM must also be coded on the NCF11 APPL statements in the other domain. See MVS Chapter 6 for AllNCF definition.

CDRSC

Note: The CDRSC's definitions for SA10 are given in MSNF Chapter 12, (see R11ANCF).

NCCF FLOW

This is a very brief overview of some NCCF processing logic. It is related to the above examples of a single domain system. This logic flow does not include all exit processing, does not include much of the communication with the system operator, does not include the handling of unsolicited messages from VTAM, nor does it include error processing. It is intended to help show how the various dataset members, CLISTS, user exits, and command processors are used during NCCF execution. AN * beside a member or dataset name means it is user defined.

	INPUT USED	ACTIVITY
1. Start-up	Start-up proc	NCCF is started. The member DSICMD is read into main storage at init. time. All exits must be placed in the LINKLIB in the form DSIEXnn (nn=01 thru 14). These are loaded at init. time.
	(See example 6)	

	APPL statements (See example 7)	Activate NCF10. Activate NCF10PPT. Leave outstanding message for system operator to enter valid NCCF system operator command. Wait for logons (assuming no automatic logons).
2. Logon	USSTAB, MODETAB, (See ex. 8-9-10) DSIOPF member of NCCF.CMND.LIST* (See example 1) APPL statements (See example 6) PROF1* member of NCCF.CMND.LIST*	Operator enters logon for NCCF. NCCF displays logon screen. Operator keys id and password. NCCF validates id and password. NCCF opens ACB for this operator subtask (need APPL statement which will be activated). Acquire hardcopy log (HCL) for this operator if specified, or if already acquired on behalf of another operator, then begin sending traffic to the Hardcopy Task. Display message to operator, send message to hardcopy log and disk log.
3. Command Execution	DSIEX01 member of LINKLIB* DSICMD member of NCCF.CMND.LIST* DSIVTP, DSISRP, DSICCP, etc. members of LINKLIB*	Operator enters command. Execute user exit if present. Validate command syntax. Search for entry with label = the verb (e.g., VARY). Send message to operator that command was accepted, log request and NCCF response on hardcopy log and disk log. (Execute DSIEX02 and DSIEX04, if they exist.) If NCCF cannot find the command name in the System Command Table or if the name points to MOD=DSICCP and the CLIST is NOT on disk the same error message is produced. Execute code in member that is specified in MOD parameter of DSICMD entry. This may be an NCCF supplied member or a user written command processor.
4. Command Lists	ACT*, TRACE*, etc. members of NCCF.CMND.LIST*	This logic is used only when the MOD specified was DSICCP, which must be the MOD for all command lists. DSICCP searches for 'member' with same name as this user-defined command verb (e.g., ACT, TRACE). Command list is executed in sequence.

5. VTAM
Commands

This logic is used only when the command is a standard VTAM command. When a VTAM command is entered DSIVTP is the command processor which is invoked. If an operator is using a SPECIFIC profile then the SPAN is checked by this module.

DSIEX05 member
of LINKLIB*

Execute user written exit, if there.

Send command to VTAM for execution and wait for response (SEND CMD and RECVCMD of VTAM'S programmed operator facility-POF).

DSIEX06 member
of LINKLIB*

Execute user written exit, if there.

6. Command
Output

DSIEX02 member
of LINKLIB*

Execute user written exit, if there.

If you delete a message in DSIEX02 then it will not be logged on the disk or HARDCOPY.

Send response to command to operator.

DSIEX04 member
of LINKLIB*

Execute user written exit if there.

Log response on hardcopy log.

Log response on disk log.

Return to Command Execution (#3).

7. Logoff

Operator enters LOGOFF.

DSIEX14 member
of LINKLIB*

Execute user written exit, if there.

Close ACB, subtask becomes inactive, terminate session with hardcopy log and deactivate its subtask if no other operators are using it.

Send message to operator, log the msg on the hardcopy and disk logs.

8. Terminating
NCCF

NCCF or System operator enters CLOSE.

If CLOSE IMMED was entered, all subtasks will be deactivated without messages and NCCF will be ABENDED.

If just CLOSE was entered, a message is sent to each active operator and the system console. No more logons are accepted.

When the last operator has logged off, all ACBs will be closed and NCCF will be ended normally.

DOCUMENTATION

Network Problem Determination Application Version 3

General Information	GC34-2111
Installation	SC34-2117
User's Guide	SC34-2112
User Reference	SC34-2114

NPDA PROGRAMMING CONSIDERATIONS

NPDA runs as an application of NCCF Release 2. In a VM/370 environment, NPDA Version 3 operates with NCCF Release 2 and with VM/SP and VM/VCNA with the following access methods:

ACF/VTAM Version 1 Release 3

ACF/VTAM Version 2

DEMF cannot be operated in the same system with NPDA Version 3.

MVS INSTALLATION SAMPLES

NPDA Database

The following job initializes the entire NPDA database, primary and secondary, by purging and then reallocating the database.

The NPDA database is a VSAM key-sequenced file, with potentially heavy update and retrieval activity. In order to provide better performance where high activity is anticipated, the parameters used in these samples are recommended.

1. The CATALOG statements are optional.
2. The userpass value must be the same as in the PPASS and SPASS values in the BNJMBDST member.
3. The cluster names must be the same as the DSN names referred to in the NPDA initialization procedure DD statements.
4. The shared option (SHAREOPTIONS) default is not supported by NPDA, allowing access to the database by other domains and systems. When this possibility exists, the user should exercise caution to prevent loss of data.
5. Use the VSAM 'EXPORT/IMPORT' function regularly, to 'compress' the database; that is, to reclaim the space occupied by deleted records. Users of Data Facility / Extended Function (DFEF), Program Number 5740-XYQ, need not do this, since DFEF will dynamically reclaim this space. Other NPDA users can monitor the condition of their data base using the AMS 'LISTCAT' command, and REPRO when the number of deleted records, Control Interval splits, or Control Area splits seems excessive. As an alternative to that analysis, you can REPRO on a scheduled basis, like once a week or whenever you bring NPDA down.

6. If dasd volume utilization could be a bottleneck, try to keep the NPDA database on a separate pack from other heavily used disk files, especially SYS1.LOGREC and the NCCF disk log. Those two files are commonly updated concurrently with the NPDA database.
7. Modify the definitions of the RECSZ parameters in the VSAM definitions for the NCCF disk log. Change these parameters from RECSZ(125 304) to RECSZ(125 404) to accommodate the larger NPDA message formats.

NPDA Data Base Allocation

Sample JCL to allocate the NPDA data base is as follows:

```
//ALLOCSNA JOB MSGLEVEL=1,REGION=500K
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=A
//SYSIN DD *
DELETE (BNJLGPRI) PURGE CLUSTER
DEFINE CLUSTER (NAME(SA11.BNJLGPRI) -
  BUFSP(24576) -
  CISZ(4096) -
  FSPC(20 10) -
  IMBED -
  INDEXED -
  KEYS(76 0) -
  RECSZ(300 4086) -
  SHR(2 3) -
  TRACKS(200 20) -
  UNIQUE -
  UPDPW (userpass) -
  VOL(volid)) -
  CATALOG(user.catlg)
DELETE (BNJLGSEC) PURGE CLUSTER
DEFINE CLUSTER (NAME(SA11.BNJLGSEC) -
  BUFSP(24576) -
  CISZ(4096) -
  FSPC(20 10) -
  IMBED -
  INDEXED -
  KEYS(76 0) -
  RECSZ(300 4086) -
  SHR(2 3) -
  TRACKS(200 20) -
  UNIQUE -
  UPDPW (userpass) -
  VOL(volid))-
  CATALOG(user.catlg)
/*
```

Note: A more accurate VSAM space requirements should be calculated from the NPDA Installation Guide Chapter 1.


```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
* NPDA      VERBS
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
NPDA      CMDMDL   MOD=BNJPNPDA,TYPE=R   NPDA PSCP
          CMDCLASS 2,1,3
PRG       KEYCLASS 1
PURGE    KEYCLASS 1
=OTHER   KEYCLASS 1
DEL      VALCLASS 1
:        CMDMDL   MOD=BNJPNPDA,TYPE=R,CTL=S PF 10 KEY
          CMDCLASS 2,1,3
PRG       KEYCLASS 1
PURGE    KEYCLASS 1
=OTHER   KEYCLASS 1
DEL      VALCLASS 1
⋄        CMDMDL   MOD=BNJPNPDA,TYPE=R,CTL=S PF 22 KEY
          CMDCLASS 2,1,3
PRG       KEYCLASS 1
PURGE    KEYCLASS 1
=OTHER   KEYCLASS 1
DEL      VALCLASS 1
BNJIBMPD CMDMDL   MOD=BNJPNPDA,TYPE=R   NPDA PSCP
          CMDCLASS 2,1,3
BNJUNSOL CMDMDL   MOD=BNJDNPDA,TYPE=D   UNSOL DSCP NAME
          CMDCLASS 2,1,3
REQMS    CMDMDL   MOD=BNJQNPDA,TYPE=R   PSCP (FOR SOLICITATION)
          CMDCLASS 2,1,3
BNJIBMRQ CMDMDL   MOD=BNJQNPDA,TYPE=R   PSCP (FOR SOLICITATION)
          CMDCLASS 2,1,3

```

Note: This partial listing of DSIDMN shows how PF keys and command words are specified. 'NPDA', ':', and '⋄' must be specified in the BNJZVTBL member. The defaults are 'NPDA' and PF1 but PF1 was not used here; PF1 is used for HELP facility (see the above page).

BNJZVTBL

The commands defined in this module must also be defined in the DSICMD member that is in the NCCF DSIPARM data set. The member described here is for reference only. The NPDA Installation Guide should be used for final coding.

```

TITLE 'BNJZVTBL - NPDA VERB TABLE'
*/*****
*/
*/ $MOD(BNJZVTBL)
*/
*/ DESCRIPTIVE NAME = NPDA VERB TABLE
*/
*/
*/ FUNCTION = THIS TABLE CONTAINS ALL THE APPLICATIONS VERBS AND
*/ ASSOCIATED LOAD MODULE NAMES FOR NPDA.
*/ TO ADD ANOTHER ENTRY TO THIS TABLE DO THE FOLLOWING:
*/ 1) UPDATE THE NUMBER OF ENTRIES (TBLNUMB) BY ONE
*/ FOR EACH ENTRY BEING ADDED. ONE ENTRY CONSISTS
*/ OF: A) VERB NAME (MAY BE THE SAME AS THE
*/ ACTUAL VERB NAME)
*/ B) ACTUAL VERB NAME
*/ C) VERB ASSOCIATED WITH THE VERB
*/ 2) AT THE BOTTOM OF THIS TABLE ADD AN 8 CHARACTER
*/ SYNONYM FOR THE ACTUAL VERB NAME, FOLLOWED BY
*/ AN 8 CHARACTER ACTUAL VERB NAME ASSOCIATED WITH
*/ THE SYNONYM, FOLLOWED BY AN 8 CHARACTER LOAD
*/ MODULE NAME ASSOCIATED WITH THE ACTUAL VERB.
*/ ALL THREE FIELDS ARE TO BE PADDED TO THE RIGHT
*/ WITH BLANKS.
*/ THERE IS NO MAXIMUM NUMBER OF ENTRIES IN THIS TABLE.
*/
*/*****
BNJZVTBL CSECT NPDA VERB TABLE
TBLNUMB DC F'05' NUMBER OF VERB TABLE ENTRIES
* FIRST VERB NAME DEFINITION
TBLNAM1 DC CL8'NPDA' VERB NAME 1 - NPDA
TBLNAME1 DC CL8'NPDA' VERB NAME 1 - ACTUAL VERB NAME
TBLMOD1 DC CL8'BNJCNPDA' LOAD MODULE FOR NPDA
* SECOND VERB NAME DEFINITION (NOT TO BE CHANGED)
TBLNAM2 DC CL8'BNJIBMPD' VERB NAME 2 - NPDA
TBLNAME2 DC CL8'NPDA' VERB NAME 2 - ACTUAL VERB NAME
TBLMOD2 DC CL8'BNJCNPDA' LOAD MODULE FOR BNJIBMPD
TBLNAM3 DC CL8'%1' VERB NAME 3 - PF1 NPDA
TBLNAME3 DC CL8'NPDA' VERB NAME 3 - ACTUAL VERB NAME
TBLMOD3 DC CL8'BNJCNPDA' LOAD MODULE FOR PF1 NPDA
TBLNAM4 DC CL8'%:' VERB NAME 4 - PF10 NPDA
TBLNAME4 DC CL8'NPDA' VERB NAME 4 - ACTUAL VERB NAME
TBLMOD4 DC CL8'BNJCNPDA' LOAD MODULE FOR PF10 NPDA
TBLNAM5 DC CL8'%φ' VERB NAME 5 - PF22 NPDA
TBLNAME5 DC CL8'NPDA' VERB NAME 5 - ACTUAL VERB NAME
TBLMOD5 DC CL8'BNJCNPDA' LOAD MODULE FOR PF22 NPDA
END BNJZVTBL

```

DSIDMN

```

./ ADD LIST=ALL,NAME=DSIDMN
NCCFID DOMAINID=NCF11,SUPPCHAR=?
NCCFIC IC=IC11
OPTIONS VERIFY=NORMAL
ACCESS METHOD=V
MAXSPAN 8
NPDATSK TASK MOD=DSIZDST,TSKID=BNJDSERV,INIT=Y,PRI=1,MEM=BNJMBDST
NPDALOG TASK MOD=BNJMNPD,TSKID=BNJMNPD,INIT=Y,PRI=1
NCCFLOG TASK MOD=DSIZDST,TSKID=DSILOG,PRI=2,MEM=DSILOGBK,INIT=Y
POS H11L42D,T140A0F8
POSPPOOL 25
NCF10 RRD
NCF11 RRD
NCF12 RRD

```

```

CDMNSESS 25
HARDCOPY H11L42F
HARDCOPY T14022K2,T14020C2
MAXABEND 20
MAXSPAN 8
MAXLOGON 3
END

```

./ ENDUP

Note: The character value for the SUPPCHAR= statement must be '?' for NPDA.

Note: The NCCFIC statement is used to automatically have NCCF issue commands at initialization time. In this example, it is used in this example to set the NPDA filters.

Note: The MEM=BNJMBDST operand must be the same as the name for the Data Services Task Definition. (See the next member.)

Note: Remember to add the CDMNSESS and RRD statements if you are in an MSNF environment.

Note: This DSDMN member is the same as NCCF plus NPDA entries.

BNJMBDST

The Wrap Count for NPDA Alerts should be set the minimum necessary for your installation to effectively use the NPDA Alert mechanism. The Alert Wrap Count is the maximum number of Alerts that will be kept on the NPDA database. You can change the Count easily, either at installation time (when you create BNJMBDST - see the Installation Manual), or any time NPDA is running, using the NPDA SWRAP command:

```
NPDA SWRAP AL nn
```

where 'nn' is the new Wrap Count.

Alert Wrap Counts of 50 to 100 (versus the default of 400) have been used successfully in early installations.

```

./ ADD NAME=BNJMBDST
DSTINIT PDDNM=BNJLGPRI
DSTINIT PPASS=userpass
DSTINIT SDDNM=BNJLGSEC
DSTINIT SPASS=userpass
DSTINIT DSRBU=1
DSTINIT DSRBO=1
DSTINIT UNSOL=BNJUNSOL
DSTINIT FUNCT=BOTH
DSTINIT XITVN=BNJAINTA
DSTINIT XITDI=BNJAPAMA
CTL 003 001
W EV 012 CTRL
W ST 012 CTRL
W AL 036
R CTRL P140A0F 012
./ ENDUP

```

Note: The member name, BNJMBDST, must agree with the MEM= operand for the TASK statement in the definition of the member DSIDMN.

Note: These statements must not begin in column 1.

APPL

```
*
* APPL DEFINITION STATEMENTS FOR NCCF AND NPDA
*
      VBUILD TYPE=APPL
NCF11      APPL  AUTH=(ACQ,PASS),MODETAB=NCCFXDOM,EAS=1
NCF11PPT  APPL  AUTH=(PPO)
NCF11000  APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF11001  APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF11002  APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF11003  APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF11004  APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF11005  APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF11006  APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF11007  APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF11008  APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF11009  APPL  AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
BNJDSERV  APPL  AUTH=(CNM),EAS=1
```

Note: The name BNJDSERV is required by NPDA and must agree with the DCs coded in the ISTMGC00 CSECT. AUTH=(CNM) must be coded. Normally the first operator to logon will be connected to the NCCFM000 Logical Unit.

Note: Shown here is the NCCF plus NPDA application statements.

ISTMGC00 Access Method Interface

```
//ASM EXEC PGM=IFOX00,PARM=OBJ
/** JOB TO CREATE CNM MEMBER FOR VTAMLIB
//SYSLIB DD DSN=SYS1.MACLIB,DISP=SHR
//SYSUT1 DD DSN=SYS1.SYSUT1,UNIT=VIO,SPACE=(1700,(600,100))
//SYSUT2 DD DSN=SYS1.SYSUT2,UNIT=VIO,SPACE=(1700,(300,50))
//SYSUT3 DD DSN=SYS1.SYSUT3,UNIT=VIO,SPACE=(1700,(300,50))
//SYSPRINT DD SYSOUT=*,DCB=BLKSIZE=1089
//SYSPUNCH DD DUMMY
//SYSGO DD DSN=SYS1.OBJSET,UNIT=SYSSQ,SPACE=(80,(200,50)),
// DISP=(MOD,PASS)
//
//SYSIN DD *
ISTMGC00 CSECT
      DS 0F
      DC X'0003' NUMBER OF ENTRIES IN THE TABLE
      DC X'000C' LENGTH OF EACH ENTRY
      DC XL4'00000000' RESERVED
      DC XL4'00000000' RESERVED
*****
* FIRST ENTRY *
*****
      DC XL1'00' FLAGS FOR NPDA ACF/VTAM CNMI
      DC XL3'010381' RECMS
      DC C'BNJDSERV' MUST APPEAR IN APPL STATEMENT FOR
* VTAM WITH AUTH=CNM
*****
* SECOND ENTRY *
*****
      DC XL1'00' FLAGS FOR NPDA ACF/VTAM CNMI
      DC XL3'410384' RECFMS
      DC C'BNJDSERV' MUST APPEAR IN APPL STATEMENT FOR
* VTAM WITH AUTH=CNM
*****
* THIRD ENTRY *
*****
      DC XL1'00' FLAGS FOR NPDA ACF/VTAM CNMI
      DC XL3'41038D' NMVT
      DC C'BNJDSERV' MUST APPEAR IN APPL STATEMENT FOR
* VTAM WITH AUTH=CNM
      END ISTMGC00
//LKED EXEC PGM=IEWL,PARM=(XREF,LET,LIST,NCAL,REUS),
// COND=(8,LT,ASM)
//SYSLIN DD DSN=SYS1.OBJSET,DISP=(OLD,DELETE)
// DD DDNAME=SYSIN
//SYSLMOD DD DSN=SYS1.VTAMLIB(ISTMGC00),DISP=SHR
//SYSUT1 DD DSN=SYS1.SYSUT1,UNIT=VIO,SPACE=(1024,(50,20))
//SYSPRINT DD SYSOUT=*,DCB=(RECFM=FB,LRECL=121,BLKSIZE=1210)
```

Note: This CSECT is described in the ACF/VTAM Planning and Installation Reference under the heading CNM Routing Table in the chapter on Exit Routines and Replaceable Modules. The APPL statement must contain AUTH=CNM. If the APPL macro is given a name it must correspond to the name in the ACB= parm and also to the name in ISTMGC00—all three places must specify the same name.

NCCF Clists for NPDA

IC11

```
CLIST
&CONTROL ERR
OCCF /QLOGON
*
```

```

* THE FOLLOWING DISPLAY WILL CHECK IF THIS IS THE INITIAL OR
* A SUBSEQUENT RESTART OF NCCF
* IF THIS IS THE INITIAL IPL OF NCCF THE THE APPLICATION
* DPCINIT WILL BE UNKNOWN AND CAUSE VTAM MESSAGE IST088I TO BE
* DISPLAYED, THIS MSG (IST088I) WILL EXECUTE A CLIST THAT WILL
* RESULT IN THE FINAL MVS COMMANDS REQUIRED TO BRING UP THE FULL
* SYSTEM.

```

```

*
*DIS DPCINIT
*
EVERY 2,PPT,ID=NPDAIN,NPDAINT
EVERY 30,PPT,ID=M00,ACT M00
EVERY 59,PPT,ID=MONITOR,MONITOR 11
AT 00:01,PPT,ID=T0001,MONRESET 11 0001
INSTAT OFF
IOPD 0
&WRITE *****
&WRITE * TIMER started to invoke monitor. *
&WRITE * TIMER started to delay start of NPDA filters. *
&WRITE *****
&EXIT

```

Note: This clist(IC11) is executed when NCCF is initialized. It is called from the DSIDMN member.

NPDAINT NCCF Execute NPDA Timer Reset

```

CLIST
&CONTROL ERR
NPDASRF
PURGE TIMER=NPDAIN,OP=PPT
&EXIT

```

Note: This clist(NPDAINT) is executed when the timer started by IC11 expires. The timer is purged and the NPDASRF clist is executed. This sequence is used to allow NPDA to be initialized before the NPDA commands are issued.

NPDASRF

```

CLIST
&CONTROL ERR
NPDA SRF AREC PASS E CUST
NPDA SRF AREC PASS E IMR
NPDA SRF AREC PASS E PERF
NPDA SRF AREC PASS E PERM
NPDA SRF AREC PASS E PROC
NPDA SRF AREC PASS E TEMP
NPDA SRF AREC PASS E SNA
NPDA SRF AREC PASS E USER
NPDA SRF AREC PASS TREF CPU
NPDA SRF OPER PASS E PERM
&WRITE NPDA FILTERS INITIALIZED.
&EXIT

```

Note: This clist(NPDASRF) executes NPDA commands which set the recording filters.

SWNPDA NCCF Switch log Clist

* SWITCH BNJDSEV,n WHERE n=T,P or S
SWITCH BNJDSEV,&1

Note: This clist is used to stop, switch and start NPDA logging.

MONRESET

```
CLIST
&CONTROL ERR
&B = &TIME
&A = 11
&IF .&1 NE . &THEN &A = &1
&IF .&2 NE . &THEN &B = &2
PURGE TIMER=ALL,OP=PPT
ZERO
AT 00:01,PPT,ID=T001,MONRESET &A 0001
EVERY 30,PPT,ID=M00,ACT M00
EVERY 1:00,PPT,ID=MONHOUR,MONITOR &A
MVS /SYSMON &A &B
&WRITE *-----*
&WRITE | TIMER started to invoke monitor each hour. |
&WRITE *-----*
&EXIT
```

MONITOR

```
CLIST
&CONTROL ERR
&B = &TIME
&IF .&2 NE . &THEN &B = &2
MVS /SYSMON &1 &B
&EXIT
```

NPDA Start Procedure

```
//NPDA JOB MSGCLASS=A,MSGLEVEL=(1,1),TIME=1440
//ST1 EXEC PGM=BNJLINTX,TIME=1440,REGION=&RGN,PARM=(8K,200),
// DPRTY=(15,10),PERFORM=13
//STEPLIB DD DSN=SYS1.NPDALIB,DISP=SHR
//STEPDAT DD DSN=user.catlg,DISP=SHR
//SYSPRINT DD SYSOUT=A
//SYSUDUMP DD SYSOUT=S
//DSICLD DD DSN=EIT.CLISTLIB,DISP=SHR
//DSIPARM DD DSN=SA11.CLISTLIB,DISP=SHR
//DSIVTAM DD DSN=RISC.VTAMLST,DISP=SHR
//DSIPRF DD DSN=RISC.DSIPRF,DISP=SHR
// DD DSN=RISC.VTAMLST,DISP=SHR
//* *****
//* NCCF DATA SETS *
//* *****
//DSILOGP DD DSN=NCCFLOGP,DISP=SHR,AMP=AMORG
//DSILOGS DD DSN=NCCFLOGS,DISP=SHR,AMP=AMORG
//* *****
//* NPDA DATA SETS *
//* *****
//BNJLGPRI DD DSN=SA11.BNJLGPRI,DISP=SHR,AMP='AMORG,BUFNI=4'
//BNJLGSEC DD DSN=SA11.BNJLGSEC,DISP=SHR,AMP='AMORG,BUFNI=4'
```

Sample to Save the NPDA Primary Log File

Use the following job to save the primary NPDA database on tape. Putting the database on tape saves the data base and provides an additional aid for debugging NPDA problems.

Access to the NPDA database requires that the NCCF job be inactive.

```
//EXPORT JOB
//STEP1 EXEC PGM=IDCAMS
//STEP1CAT DD DSN=user.catlg,DISP=SHR
//SYSPRINT DD SYSOUT=A
//OUTPUT DD DSN=dsname,UNIT=TAPE,DISP=(NEW,KEEP),
// VOL=SER=volid,DCB=(DEN=3)
//SYSIN DD *
VERIFY DATASET(SA11.BNJLGPRI)
EXPORT-
SA11.BNJLGPRI -
OUTFILE(OUTPUT) -
TEMPORARY
/*
```

Note: This job saves the primary NPDA log file to tape.

Sample to Restore the NPDA Primary Log File

Use the following job to restore the primary NPDA data base from tape.

Access to the NPDA database requires that the NCCF job be inactive.

```
//IMPORT JOB
//STEP1 EXEC PGM=IDCAMS
//STEP1CAT DD DSN=user.catlg,DISP=SHR
//SYSPRINT DD SYSOUT=A
//SYSIN DD *
DELETE (SA11.BNJLGPRI/userpass) PURGE CLUSTER
/*
//STEP2 EXEC PGM=IDCAMS
//STEP2CAT DD DSN=user.catlg,DISP=SHR
//SYSPRINT DD SYSOUT=A
//INPUT DD DSN=dsname,UNIT=TAPE,DISP=(NEW,KEEP),
// VOL=SER=volid,DCB=(DEN=3)
//SYSIN DD *
IMPORT-
INFILE(INPUT)-
OUTDATASET(SA11.BNJLGPRI) -
INTOEMPTY -
CATALOG(user.catlg/userpass)
/*
```

Note: This job restores the primary NPDA log file from tape.

VSE INSTALLATION SAMPLES

NPDA Database

The following job initializes the entire NPDA database, primary and secondary, by purging and then reallocating the database.

The NPDA database is a VSAM key-sequenced file, with potentially heavy update and retrieval activity. In order to provide better performance where high activity is anticipated, the parameters used in these samples are recommended.

1. The CATALOG statements are optional.
2. The `userpass` value must be the same as in the PPASS and SPASS values in the BNJMBDST member.
3. The cluster names must be the same as the DSN names referred to in the NPDA initialization procedure JCL statements.
4. The shared option (SHAREOPTIONS) default is not supported by NPDA, allowing access to the database by other domains and systems. When this possibility exists, the user should exercise caution to prevent loss of data.
5. Use the VSAM 'EXPORT/IMPORT' function regularly, to 'compress' the database; that is, to reclaim the space occupied by deleted records. Users of Data Facility / Extended Function (DFEF), Program Number 5740-XYQ, need not do this, since DFEF will dynamically reclaim this space. Other NPDA users can monitor the condition of their database using the AMS 'LISTCAT' command, and EXPORT/IMPORT when the number of deleted records, Control Interval splits, or Control Area splits seems excessive. As an alternative to that analysis, you can EXPORT/IMPORT on a scheduled basis, like once a week or whenever you bring NPDA down.
6. If dasd volume utilization could be a bottleneck, try to keep the NPDA database on a separate pack from other heavily used disk files, especially SYSRES, LOCK FILE and the NCCF disk log. Those two files are commonly used concurrently with the NPDA database.
7. Modify the definitions of the RECSZ parameters in the VSAM definitions for the NCCF disk log. Change these parameters from RECSZ(125 304) to RECSZ(125 404) to accommodate the larger NPDA message formats.

NPDA Database Allocation

Sample JCL to allocate the NPDA data base is as follows:

```
// JOB DEFINE
// DLBL IJSYSUC,'user.catlg',,VSAM
// EXTENT ,SYSWK1
// EXEC IDCAMS,SIZE=AUTO
DELETE (SA12.BNJLGPRI) PURGE CLUSTER
DEFINE CLUSTER (NAME(SA12.BNJLGPRI) -
  BUFSP(24576) -
  CISZ(4096) -
  FSPC(20 10) -
  IMBED -
  INDEXED -
  KEYS(76 0) -
  RECSZ(300 4086) -
  TRACKS(200 20) -
  UPDPW (userpass) -
  VOL(volid)) -
  CATALOG(user.catlg)
DELETE (SA12.BNJLGSEC) PURGE CLUSTER
DEFINE CLUSTER (NAME(SA12.BNJLGSEC) -
  BUFSP(24576) -
  CISZ(4096) -
  FSPC(20 10) -
  IMBED -
  INDEXED -
  KEYS(76 0) -
  RECSZ(300 4086) -
  TRACKS(200 20) -
  UPDPW (userpass) -
  VOL(volid))-
  CATALOG(user.catlg)
/*
```

Note: More accurate VSAM space requirements should be calculated from the NPDA Installation Guide Chapter 1.

NCCF Requirements for NPDA

DSICMD

```
*****  
*                                                                 *  
* Use the same DSICMD MVS table                                 *  
*                                                                 *  
*****
```

BNJZVTBL

The commands defined in this module must also be defined in the DSICMD member that is in the NCCF DSIPARM data set. The member described here is for reference only. The NPDA Installation Guide should be used for final coding.

```
*/XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX*/
*/*
*/* Use the same BNJZVTBL MVS table
*/*
*/XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX*/
```

DSIDMN

```
CATALS B.DSIDMN
BKEND
      NCCFID    DOMAINID=NCF12,SUPPCHAR=?
      NCCFIC    IC=IC12
      OPTIONS   VERIFY=NORMAL
      ACCESS    METHOD=V
      MAXSPAN   8
NPDATSK TASK    MOD=DSIZDST,TSKID=BNJDSERV,INIT=Y,PRI=1,MEM=BNJMBDST
NCCFLOG  TASK    MOD=DSIZDST,TSKID=DSILOG,PRI=2,MEM=DSILOGBK,INIT=Y
      POS      H12L07F
      POSPOOL  10
NCF10    RRD
NCF11    RRD
NCF12    RRD
      CDMNSESS 10
      HARDCOPY P72L308
      MAXABEND 5
      MAXSPAN  8
      MAXLOGON 3
      END
BKEND
```

Note: The character value for the SUPPCHAR= statement must be '?' for NPDA.

Note: The NCCFIC statement is used to automatically have NCCF issue commands at initialization time. In this example, it is used to set the NPDA filters.

Note: The MEM=BNJMBDST operand must be the same as the name for the Data Services Task Definition (see the next member).

Note: Remember to add the CDMNSESS and RRD statements if you are in an MSNF environment.

Note: This DSDMN member includes both NCCF and NPDA entries.

BNJMBDST

The Wrap Count for NPDA Alerts should be set the minimum necessary for your installation to effectively use the NPDA Alert mechanism. The Alert Wrap Count is the maximum number of Alerts that will be kept on the NPDA database. You can change the Count easily, either at installation time (when you create BNJMBDST - see the Installation Manual), or any time NPDA is running, using the NPDA SWRAP command:

```
NPDA SWRAP AL nn
```

where 'nn' is the new Wrap Count.

Alert Wrap Counts of 50 to 100 (versus the default of 400) have been used successfully in early installations.

```
CATALS BNJMBDST
BKEND
DSTINIT PDDNM=BNJLGPR
DSTINIT PPASS=userpass
DSTINIT SDDNM=BNJLGSE
DSTINIT SPASS=userpass
DSTINIT DSRBU=1
DSTINIT DSRBO=1
DSTINIT UNSOL=BNJUNSOL
DSTINIT FUNCT=BOTH
DSTINIT XITVN=BNJAINTA
DSTINIT XIIDI=BNJAPAMA
CTL 003 001
W EV 012 CTRL
W ST 012 CTRL
W AL 036
R CTRL P140A0F 012
BKEND
```

Note: The member name, BNJMBDST, must agree with the MEM= operand for the TASK statement in the definition of the member DSIDMN.

Note: This statements must not begin in column 1.

APPL

```
*
* APPL DEFINITION STATEMENTS FOR NCCF AND NPDA
*
      VBUILD TYPE=APPL
NCF12      APPL AUTH=(ACQ,PASS),MODETAB=NCCFXDOM,EAS=1
NCF12PPT   APPL AUTH=(PPO)
NCF12000   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF12001   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF12002   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF12003   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF12004   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF12005   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF12006   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF12007   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF12008   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
NCF12009   APPL AUTH=(SPO,ACQ),MODETAB=NCCFXDOM,EAS=9
BNJDSERV   APPL AUTH=(CNM),EAS=1
```

Note: The name BNJDSERV is required by NPDA and must agree with the DCs coded in the ISTMGC00 CSECT. AUTH=(CNM) must be coded. Normally the first operator to logon will be connected to the NCCFM000 Logical Unit.

Note: Shown here is the NCCF plus NPDA application statements.

ISTMGC00 Access Method Interface

```
// JOB CATAL
// LIBDEF SL,SEARCH=VTMV2SL
// LIBDEF CL,TO=USRCL1
// OPTION CATAL
  PHASE ISTMGC00,*
ISTMGC00 CSECT
  DS      0F
  DC      X'0003'          NUMBER OF ENTRIES IN THE TABLE
  DC      X'000C'          LENGTH OF EACH ENTRY
  DC      XL4'00000000'    RESERVED
  DC      XL4'00000000'    RESERVED
*****
* FIRST ENTRY *
*****
  DC      XL1'00'          FLAGS FOR NPDA ACF/VTAM CNMI
  DC      XL3'010381'      RECMS
  DC      C'BNJDSERV'      MUST APPEAR IN APPL STATEMENT FOR
*                               VTAM WITH AUTH=CNM
*****
* SECOND ENTRY *
*****
  DC      XL1'00'          FLAGS FOR NPDA ACF/VTAM CNMI
  DC      XL3'410384'      RECMS
  DC      C'BNJDSERV'      MUST APPEAR IN APPL STATEMENT FOR
*                               VTAM WITH AUTH=CNM
*****
* THIRD ENTRY *
*****
  DC      XL1'00'          FLAGS FOR NPDA ACF/VTAM CNMI
  DC      XL3'41038D'      NMVT
  DC      C'BNJDSERV'      MUST APPEAR IN APPL STATEMENT FOR
*                               VTAM WITH AUTH=CNM
*
  END      ISTMGC00
// EXEC LNKEDT
/;&
```

Note: This CSECT is described in the ACF/VTAM Planning and Installation Reference under the heading CNM Routing Table in the chapter on Exit Routines and Replaceable Modules. The APPL statement must contain AUTH=CNM. If the APPL macro is given a name it must correspond to the name in the ACB= parm and also to the name in ISTMGC00—all three places must specify the same name.

NCCF Clists for NPDA

IC12

```
CLIST
&CONTROL ERR
EVERY 2,PPT,ID=NPDAIN,NPDAINT
INSTAT OFF
&WRITE *    TIMER started to delay start of NPDA filters.    *
&EXIT
```

Note: This clist(IC12) is executed when NCCF is initialized. It is called from the DSIDMN member.

NPDA Start Procedure

```
* $$ JOB JNM=NCCF,DISP=L
* *****
* THIS JOB CAN BE USED TO BRING UP NCCF (and NPDA) *
* *****
* VSAM CATALOGS *
* *****
// DLBL IJSYSCT,'VSAM.MASTER.CATALOG',99/365,VSAM
// EXTENT ,DOSRES
// DLBL IJSYSUC,'NPDA.NCCF.USER.CATALOG',99/365,VSAM
// EXTENT ,SYSWK1
* *****
* NCCF DATA BASES *
* *****
// DLBL DSILOG,'NCCFLOGA',99/365,VSAM
// EXTENT ,SYSWK1
// DLBL DSILOGS,'NCCFLOGB',99/365,VSAM
// EXTENT ,SYSWK1
* *****
* NPDA DATA BASES *
* *****
// DLBL BNJLGPR,'SA12.BNJLGPRI',99/365,VSAM
// EXTENT ,SYSWK1
// DLBL BNJLGSE,'SA12.BNJLGSEC',99/365,VSAM
// EXTENT ,SYSWK1
* *****
* LIBRARIES *
* *****
// DLBL VTAMV2,'VTM.E27.SYSCLB'
// EXTENT ,SYSWK1
// LIBDEF SL,TO=USRSL1,SEARCH=USRSL1
// LIBDEF CL,SEARCH=(VTAMV2,USRCL1,PRDCLC,PRDCLF,IJSYSRS)
// EXEC DSIDPR,SIZE=AUTO
/*
// EXEC PRINTLOG
/&
* $$ EOJ
```

Note: Some comments about NCCF/NPDA are included in the VSE chapter.

Sample to Repro the NPDA Primary Log File

Saving an NPDA Database on Tape under VSE.: Use the following job to save the primary NPDA database on tape. Putting the database on tape saves it and provides an additional aid for debugging NPDA problems.

Access to the NPDA database requires that the NCCF job be inactive.

```
// JOB EXPORT
// DLBL IJSYSUC,'NPDA.NCCF.USER.CATALOG',99/365,VSAM
// EXTENT ,SYSWK1
// DLBL BNJLGPR,'SA12.BNJLGPRI',99/365,VSAM
// EXTENT ,SYSWK1
// TLBL OUTPUT,'SA12.BNJLGPRI'
// EXEC IDCAMS,SIZE=AUTO
  VERIFY DATASET(SA12.BNJLGPRI)
  EXPORT-
    SA12.BNJLGPRI -
    OUTFILE(OUTPUT) -
    TEMPORARY
/*
/&
```

Note: This job save the primary NPDA log file to tape.

Sample to Restore the NPDA Primary Log File

Use the following job to restore the primary NPDA database from tape .

Access to the NPDA database requires that the NCCF job be inactive.

```
// JOB EXPORT
// DLBL IJSYSUC,'NPDA.NCCF.USER.CATALOG',99/365,VSAM
// EXTENT ,SYSWK1
// DLBL BNJLGPR,'SA12.BNJLGPRI',99/365,VSAM
// EXTENT ,SYSWK1
// EXEC IDCAMS,SIZE=AUTO
// DELETE (SA11.BNJLGPRI/userpass) PURGE CLUSTER
/*
// DLBL BNJLGPR,'SA12.BNJLGPRI',99/365,VSAM
// EXTENT ,SYSWK1
// TLBL INPUT,'SA12.BNJLGPRI'
// EXEC IDCAMS,SIZE=AUTO
IMPORT-
  INFILE(INPUT)-
  OUTDATASET(SA12.BNJLGPRI) -
  INTOEMPTY -
  CATALOG(user.catlg/userpass)
/*
```

Note: This job restores the primary NPDA log file from tape.

This chapter discusses the installation of TARA on NPDA Version 3. TARA is used as the abbreviation for Threshold and Remote Access.

TARA DOCUMENTATION

IBM 3600 Threshold Analysis and Remote Access Feature Installation and Customization	SC34-2041-1
IBM 3600 Threshold Analysis and Remote Access Feature General Information	GC34-2055
IBM 3600 Threshold Analysis and Remote Access Feature User's Guide	SC34-2056

SAMPLE FOR CREATING NPDA LOG FILES

Initializing the NPDA Database under OS/VS: The following job initializes the entire NPDA database, primary and secondary, by purging and then real-locating the database. No record selection is possible using this procedure.

Sample JCL to allocate the TARA database is as follows:

```
//ALLOCSNA JOB MSGLEVEL=1,REGION=500K
//STEP1 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=A
//SYSIN DD *
      DELETE (SA11.BN36GPRI) PURGE CLUSTER
      DEF CLUSTER (NAME(SA11.BNJ36PRI) -
        INDEXED -
        VOL(xxxxxxx) -
        TRACKS(200 20) -
        UNIQUE -
        UPDPW(NPDA) -
        KEYS (76 0) -
        RECSZ(80 4086) -
        FSPC(5 5) -
        CISZ(4096) -
        IMBED )
      DELETE (SA11.BN36GSEC) PURGE CLUSTER
      DEF CLUSTER (NAME(SA11.BNJ36SEC) -
        INDEXED -
        VOL(xxxxxxx) -
        TRACKS(40 10) -
        UNIQUE -
        UPDPW(NPDA) -
        KEYS (76 0) -
        RECSZ(80 4086) -
        FSPC(5 5) -
        CISZ(4096) -
        IMBED )
/*
```

Note: The above values will allow testing the network. Actual VSAM space requirements should be calculated from the NPDA Installation Guide.

NCCF REQUIREMENTS FOR TARA

Member DSIDMN

```
./ ADD LIST=ALL,NAME=DSIDMN
      NCCFID      DOMAINID=NCF11,SUPPCHAR=?
      NCCFIC      IC=IC11
      OPTIONS     VERIFY=NORMAL
      ACCESS      METHOD=V
      MAXSPAN     8
NPDATSK  TASK     MOD=DSIZDST,TSKID=BNJDSERV,INIT=Y,PRI=1,MEM=BNJMBDST
NPDALOG  TASK     MOD=BNJMNPD,TSKID=BNJMNPD,INIT=Y,PRI=1
TARATSK  TASK     MOD=DSIZDST,TSKID=BNJDSE36,INIT=Y,PRI=1,MEM=BNJ36DST
NCCFLOG  TASK     MOD=DSIZDST,TSKID=DSILOG,PRI=2,MEM=DSILOGBK,INIT=Y
      POS        H11L42D,T140A0F8
      POSPOOL    25
NCF10    RRD
NCF11    RRD
NCF12    RRD
      CDMNSESS   25
      HARDCOPY   H11L42F
      HARDCOPY   T14022K2,T14020C2
      MAXABEND   20
      MAXSPAN    8
      MAXLOGON   3
      END
./ ENDUP
```

Note: The MEM=BNJ36DST operand must be the same as the name for the Data Services Task Definition (see the next member).

Note: Remember to add the CDMNSESS and RRD statements if you are in an MSNF environment.

Note: This DSDMN member is the same as NPDA plus TARA entries.

Member BNJ36DST - Data Services Task Definition

```
./ ADD NAME=BNJ36DST
DSTINIT PDDNM=BNJ36PRI
DSTINIT PPASS=NPDA
DSTINIT SDDNM=BNJ36SEC
DSTINIT SPASS=NPDA
DSTINIT FUNCT=VSAM
DSTINIT DSRBO=01
DSTINIT DSRBU=01
DSTINIT XITVN=BNJAINTA
DSTINIT XITDI=BNJSEXTA
BNJSWTBA TARAWRP LOOPSTAT=0012
BNJSWTBA TARAWRP LOOPERR=0012
BNJSWTBA TARAWRP RESPTIME=0012
BNJSTTBA TARATHR,TYPE=LOOP,BASIC2=0010,EXTEND=0004
BNJSTTBA TARATHR,TYPE=TIMER,NUMBER=01,THRMIN=5,THRAVG=50,ID=TIMER01
BNJSTTBA TARATHR,TYPE=TIMER,NUMBER=02,THRMIN=5,THRAVG=50,ID=TIMER02
```

Note: The member name, BNJ36DST, must agree with the MEM= operand for the TASK statement in the definition of the member DSIDMN.

ISTMGC - THE CNM ROUTING CSECT

This step is not required if NPDA is already installed. See the NPDA installation section for this job step.

NPDA VERB TABLE FOR NPDA V3

If commands other than NPDA, PF01, and TARA are to be used, the following table must be updated, assembled, link-edited as follows, and placed in the NPDA linklib.

// PARM='XREF,LET,LIST,RENT,REUS,SIZE=(512K,128K),NCAL'

The commands defined in this module must also be defined in the DSICMD member that is in the NCCF DSIPARM data set. The member described here is for reference only. The NPDA Installation Guide should be used for final coding.

```

          TITLE 'BNJZVTBL - NPDA VERB TABLE'
*/XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX*/
*/*
*/* $MOD(BNJZVTBL) PROD(NPDA):                                           */*
*/*
*/* DESCRIPTIVE NAME = NPDA VERB TABLE                                  */*
*/*
*/* FUNCTION = THIS TABLE CONTAINS ALL THE APPLICATIONS VERBS AND     */*
*/* ASSOCIATED LOAD MODULE NAMES FOR NPDA AND TARA.                   */*
*/* TO ADD ANOTHER ENTRY TO THIS TABLE DO THE FOLLOWING:             */*
*/*   1) UPDATE THE NUMBER OF ENTRIES (TBLNUMB) BY ONE                 */*
*/*    FOR EACH ENTRY BEING ADDED. ONE ENTRY CONSISTS                 */*
*/*    OF:   A) VERB NAME (MAY BE THE SAME AS THE                     */*
*/*           ACTUAL VERB NAME)                                         */*
*/*           B) ACTUAL VERB NAME                                       */*
*/*           C) VERB ASSOCIATED WITH THE VERB                         */*
*/*   2) AT THE BOTTOM OF THIS TABLE ADD AN 8 CHARACTER             */*
*/*    SYNONYM FOR THE ACTUAL VERB NAME, FOLLOWED BY                   */*
*/*    AN 8 CHARACTER ACTUAL VERB NAME ASSOCIATED WITH                 */*
*/*    THE SYNONYM, FOLLOWED BY AN 8 CHARACTER LOAD                    */*
*/*    MODULE NAME ASSOCIATED WITH THE ACTUAL VERB.                   */*
*/*    ALL THREE FIELDS ARE TO BE PADDED TO THE RIGHT                 */*
*/*    WITH BLANKS.                                                     */*
*/* THERE IS NO MAXIMUM NUMBER OF ENTRIES IN THIS TABLE.           */*
*/*
*/XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX*/
BNJZVTBL CSECT                      NPDA VERB TABLE
TBLNUMB DC      F'08'                NUMBER OF VERB TABLE ENTRIES
* FIRST VERB NAME DEFINITION
TBLNAM1 DC      CL8'NPDA'             VERB NAME 1 - NPDA
TBLNAME1 DC     CL8'NPDA'             VERB NAME 1 - ACTUAL VERB NAME
TBLLMOD1 DC     CL8'BNJCNPDA'        LOAD MODULE FOR NPDA
* SECOND VERB NAME DEFINITION (NOT TO BE CHANGED)
TBLNAM2 DC      CL8'BNJIBMPD'        VERB NAME 2 - NPDA
TBLNAME2 DC     CL8'NPDA'             VERB NAME 2 - ACTUAL VERB NAME
TBLLMOD2 DC     CL8'BNJCNPDA'        LOAD MODULE FOR BNJIBMPD
TBLNAM3 DC      CL8'%1'              VERB NAME 3 - PF1 NPDA
TBLNAME3 DC     CL8'NPDA'             VERB NAME 3 - ACTUAL VERB NAME
TBLLMOD3 DC     CL8'BNJCNPDA'        LOAD MODULE FOR PF1 NPDA
TBLNAM4 DC      CL8'%:'              VERB NAME 4 - PF10 NPDA
TBLNAME4 DC     CL8'NPDA'             VERB NAME 4 - ACTUAL VERB NAME
TBLLMOD4 DC     CL8'BNJCNPDA'        LOAD MODULE FOR PF10 NPDA
TBLNAM5 DC      CL8'%<'             VERB NAME 5 - PF22 NPDA
TBLNAME5 DC     CL8'NPDA'             VERB NAME 5 - ACTUAL VERB NAME
TBLLMOD5 DC     CL8'BNJCNPDA'        LOAD MODULE FOR PF22 NPDA
TBLNAM6 DC      CL8'TARA'            VERB NAME 6 - TARA
TBLNAME6 DC     CL8'TARA'            VERB NAME 6 - ACTUAL VERB NAME
TBLLMOD6 DC     CL8'BNJCTARA'        LOAD MODULE FOR BNJCTARA
```



```

TBLNAM7 DC CL8'%6 ' VERB NAME 7 - PF6 TARA
TBLNAME7 DC CL8'TARA ' VERB NAME 7 - ACTUAL VERB NAME
TBLLMOD7 DC CL8'BNJCTARA' LOAD MODULE FOR BNJCTARA
TBLNAM8 DC CL8'%F ' VERB NAME 8 - PF18 TARA
TBLNAME8 DC CL8'TARA ' VERB NAME 8 - ACTUAL VERB NAME
TBLLMOD8 DC CL8'BNJCTARA' LOAD MODULE FOR BNJCTARA
END BNJZVTBL

```

APPL DEFINITION STATEMENTS FOR NCCF/NPDA

See the NPDA installation example for the application definition.

MEMBER DSICMD (PARTIAL LISTING)

```

./ ADD NAME=DSICMD
*****
* THIS IS A PARTIAL LIST *
*
*****
* ATTENTION KEY ASSIGNMENTS *
*
* *****
* * CLEAR * PA1 * PA2 * PF1/13 * PF2/14 * PF3/15 * *
* * * * * * * * * * * * * * * * *
* * CLEAR * AGAIN * CLEAR * HELPS * INFO * VNCA * *
* * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * *
* * * PF4/16 * PF5/17 * PF6/18 * *
* * * * * * * * * * * * * * * * *
* * OCCF * RESET * TARA * *
*Note: User EXIT 01 changes * * * *
* the field created by * * * *
* the PF-keys to: * *****
* 1/13 $A $M * PF7/19 * PF8/20 * PF9/21 * *
* 2/14 n/c * * * * * * * * * * *
* 3/15 $C $O * * * NLDM * RESUME * *
* 4-7/16-19 n/c * * * * * * * * * *
* 8/20 $H $T * * * * * * * * * *
* 9/21 $I $U * *****
* 12/24 $L $X * PF10/22 * PF11/23 * PF12/24 * *
* * * * * * * * * * * * * * * *
* * NPDA * AUTOWRAP * PFK * *
* * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * *
* *****
* statements deleted
*****
* TARA VERBS
*****
TARA CMDMDL MOD=BNJPNPDA,TYPE=R TARA PSCP
CMDCLASS 2,1,3
6 CMDMDL MOD=BNJPNPDA,CTL=S PF 6 KEY
CMDCLASS 2,1,3
F CMDMDL MOD=BNJPNPDA,CTL=S PF 18 KEY
CMDCLASS 2,1,3
SOLICIT CMDMDL MOD=BNJNSOLA,TYPE=R DATA SOLICITATION COMMAND
CMDCLASS 2,1,3
SYSMON CMDMDL MOD=BNJNRPTA,TYPE=R REMOTE SYSTEM MONITOR ACCESS
CMDCLASS 2,1,3
*****
END

```

Note: This partial listing of DSIDMN shows how PF keys and command words are specified. 'TARA', '6', and 'F' must be specified in the BNJZVTBL member.

SAMPLE PROCEDURE FOR NPDA/TARA

```
//NPDA JOB MSGCLASS=A,MSGLEVEL=(1,1),TIME=1440
//ST1 EXEC PGM=BNJLINTX,TIME=1440,REGION=4000K,
// DPRTY=(15,10),PERFORM=13,PARM=(8K,200)
//STEPLIB DD DSN=SYS1.NPDALIB,DISP=SHR
//STEP1 DD DSN=user.catlg,DISP=SHR
//SYSPRINT DD SYSOUT=A
//SYSUDUMP DD SYSOUT=S
//DSICLD DD DSN=EIT.CLISTLIB,DISP=SHR
//DSIPARM DD DSN=SA11.CLISTLIB,DISP=SHR
//DSIVTAM DD DSN=RISC.VTAMLST,DISP=SHR
//DSIPRF DD DSN=RISC.DSIPRF,DISP=SHR
// DD DSN=RISC.VTAMLST,DISP=SHR
/* *****
/* NCCF DATA SETS *
/* *****
//DSILOGP DD DSN=NCCFLOGP,DISP=SHR,AMP=AMORG
//DSILOGS DD DSN=NCCFLOGS,DISP=SHR,AMP=AMORG
/* *****
/* NPDA DATA SETS *
/* *****
//BNJLGPRI DD DSN=SA11.BNJLGPRI,DISP=SHR,AMP='AMORG,BUFNI=4'
//BNJLGSEC DD DSN=SA11.BNJLGSEC,DISP=SHR,AMP='AMORG,BUFNI=4'
/* *****
/* TARA DATA SETS *
/* *****
//BNJ36PRI DD DSN=SA11.BNJ36PRI,DISP=SHR,AMP='AMORG'
//BNJ36SEC DD DSN=SA11.BNJ36SEC,DISP=SHR,AMP='AMORG'
```

Note: See notes in NPDA installation section.

SAMPLE TO REPRO THE TARA PRIMARY LOG FILE

Saving a TARA Database on Tape under OS/VS

Use the following job to save the primary TARA database on tape. Putting the database on tape saves the database and provides an additional aid for debugging TARA problems.

Access to the TARA database requires that the NCCF job be inactive.

```
//TARA JOB
//STEP1 EXEC PGM=IDCAMS
//STEP1 DD DSN=user.catlg,DISP=SHR
//SYSPRINT DD SYSOUT=A
//BNJ36PRI DD DSN=SA11.BNJ36PRI,DISP=OLD,AMP='AMORG,BUFNI=4'
//OUTPUT DD DSN=dsname,UNIT=TAPE,DISP=(NEW,KEEP),
// VOL=SER=volid,DCB=(DEN=3)
//SYSIN DD *
VERIFY INPUT(BNJ36PRI)
REPRO -
INFILE(BNJ36PRI)
OUTFILE(OUTPUT)
/*
```

Note: This job repros the TARA log file to tape.

This chapter discusses the installation of NLDM on NCCF Release 2. NLDM is used as the abbreviation for Network Logical Data Manager.

NLDM DOCUMENTATION

NLDM General Information	GC30-3081
NLDM Installation and Operation	SC30-3165
NLDM Diagnosis	SC30-3166
NLDM Licensed Program Specifications	GC30-9555

In addition, it is advisable to have all the NCCF manuals referenced in an earlier chapter.

NLDM runs on all IBM host processors supported by TCAM/VTAM on OS/VS2 systems.

PROGRAMMING REQUIREMENTS

NLDM operates with OS/VS2(MVS) Rel 3.8 using:

- one of the following TP access methods:
 - ACF/TCAM Version 2 Release 4
 - ACF/VTAM Version 1 Release 3 or ACF/VTAM Version 2 Release 1 each one with ACF/VTAM SPE
- NCCF Release 2 with NCCF SPE
- VSAM

ACF/NCP Version 2 is not a prerequisite for NLDM, but is required to obtain the NCP PIU sequence numbers and control blocks.

INSTALLATION REQUIREMENTS

The following steps are necessary to install NLDM:

APPLY APPROPRIATE PTFs ON ACF/VTAM V2R1 (5665-280,FMID=HVT2101) or on ACF/VTAM V1R3

Check the Memo to users for NLDM to obtain a complete list of required PTFs. Information/MVS should also be referenced as well as contacting the appropriate IBM service representative.

APPLY AN APPROPRIATE PTF ON NCCF RELEASE 2 (5752-XX6,FMID=HCS1502)

APPLY THE NLDM PROGRAM PRODUCT (5668-971,FMID=HLD1100)

which results in the creation of two libraries:

- SYS1.NLOADLIB the distribution library
- SYS1.NLDMLIB the processing library

CREATING NLDM DATA BASE

DATA RECORDING

NLDM I/Os take place at session end or on demand (FORCE command). It is then necessary to improve VSAM performance when many sessions terminate at the same time. Such a situation can appear at NCP deactivation. The standard VSAM performance recommendations also apply to NLDM databases:

- keep them separated from heavily used disk files
- define the data and index components separately
- for the data component specify:
 - the space in cylinders with a primary extent large enough to typically not use secondary extents, and with sufficient free space. Monitor them using LISTCAT.
 - the largest CI accepted by the disk type (12288 for 3330, 18432 for 3350)
- for the index component specify:
 - the space in cylinders
 - the CI just large enough to reference one CA of the data component (1024 for 3330 and 4096 for 3350)
 - IMBED and REPLICATE
- use BUFND (number of data buffers) and BUFNI (number of index buffers) in the DD card in the NCCF start procedure (BUFNI = NLDM DSRBO + 25, BUFND = NLDM DSRBO + 1).
- monitor the database usage by making regular listings of the catalog and interpreting the number of CI or CA splits and the number of deleted records.

DEFINE THE NLDM DATABASES

The following job initializes the NLDM database, both primary and secondary, by deleting and then allocating the database.

```
*****
*          NLDM databases definition JOB          *
*****
//DEFPLP EXEC PGM=IDCAMS,REGION=500K
//SYSPRINT DD SYSOUT=A
//SYSIN DD *
DELETE (SA11.NLDM.DBP) PURGE CLUSTER
DEF CLUSTER (NAME(SA11.NLDM.DBP) -
INDEXED -
VOL(WTLIB3) -
UNIQUE -
UPDPW(NLDM) -
RECSZ(102 4086) -
KEYS (54 0)) -
DATA (NAME(SA11.NLDM.DBP.DATA) -
FSPC(20 20) -
CISZ(12288) -
BUFSP(25600) -
CYLINDERS(10 2)) -
INDEX (NAME(SA11.NLDM.DBP.INDEX) -
CISZ(1024) -
IMBED -
REPLICATE -
CYLINDERS(1 1))
DELETE (SA11.TEMP.NLDM.DBP) PURGE CLUSTER
DEF CLUSTER (NAME(SA11.TEMP.NLDM.DBP) -
INDEXED -
VOL(WTLIB3) -
UNIQUE -
UPDPW(NLDM) -
RECSZ(102 4086) -
KEYS (54 0)) -
DATA (NAME(SA11.TEMP.NLDM.DBP.DATA) -
FSPC(20 20) -
CISZ(12288) -
BUFSP(25600) -
CYLINDERS(10 2)) -
INDEX (NAME(SA11.TEMP.NLDM.DBP.INDEX) -
CISZ(1024) -
IMBED -
REPLICATE -
CYLINDERS(1 1))
/*
```

Note: The above values will allow testing the network. Actual VSAM space requirements should be calculated from the NLDM Installation and Operation Guide.

NCCF REQUIREMENTS FOR NLDM

DSIDMN (With NPDA)

```
./ ADD LIST=ALL,NAME=DSIDMN
      NCCFID      DOMAINID=NCF11,SUPPCHAR=?
      NCCFIC      IC=IC11
      ACCESS      METHOD=V
      MAXSPAN     8
NCCFLOG  TASK     MOD=DSIZDST,TSKID=DSILOG,INIT=Y,PRI=2,MEM=DSILOGBK
NPDATSK  TASK     MOD=DSIZDST,TSKID=BNJDSERV,INIT=Y,PRI=6,MEM=NLDMBDST
NPDALOG  TASK     MOD=BNJMNPD,TSKID=BNJMNPD,INIT=Y,PRI=1
NLDMTSK1 TASK     MOD=DSIZDST,TSKID=AAUTSKLP,INIT=Y,PRI=7,MEM=AAUPRMLP
NLDMTSK2 TASK     MOD=DSIZDST,TSKID=DSIAMLUT,INIT=Y,PRI=7,MEM=DSIPRLU
NLDMTSK3 TASK     MOD=AAUNTIMR,TSKID=AAUNTIMR,INIT=Y,PRI=9
      POS        H11L42D,T140A0F8
      POSPOOL    25
NCF10    RRD
NCF11    RRD
NCF12    RRD
      CDMNSESS   25
      HARDCOPY   H11L42F
      HARDCOPY   T14022K2,T14020C2
      MAXABEND   20
      MAXSPAN    8
      MAXLOGON   3
      END
./ ENDUP
```

Note: The MEM=NLDMBDST operand must be the same as the name for the Data Services Task Definition. (See the next member). Add the CDMNSESS and RRD statements if you are in an MSNF environment.

DSIDMN (Without NPDA)

```
./ ADD LIST=ALL,NAME=DSIDMN
      NCCFID   DOMAINID=NCF11,SUPPCHAR=?
      NCCFIC   IC=IC11
      ACCESS   METHOD=V
      MAXSPAN  8
NCCFLOG TASK   MOD=DSIZDST,TSKID=DSILOG,INIT=Y,PRI=2,MEM=DSILOGBK
NLDMTSK1 TASK  MOD=DSIZDST,TSKID=AAUTSKLP,INIT=Y,PRI=6,MEM=AAUPRMLP
NLDMTSK2 TASK  MOD=DSIZDST,TSKID=DSIAMLUT,INIT=Y,PRI=7,MEM=DSIPRMLU
NLDMTSK3 TASK  MOD=AAUNTIMR,TSKID=AAUNTIMR,INIT=Y,PRI=9
      POS     H11L42D,T140A0F8
      POSPOOL 25
NCF10  RRD
NCF11  RRD
NCF12  RRD
      CDMNSESS 25
      HARDCOPY H11L42F
      HARDCOPY T14022K2,T14020C2
      MAXABEND 20
      MAXSPAN  8
      MAXLOGON 3
      END
./ ENDUP
```

Note: Remember to add the CDMNSESS and RRD statements if you are in an MSNF environment.

NLDMBDST - Data Services Task Definition

Add the following member to DSIPARM library if NPDA is installed

```
*****
*          NLDMBDST member (NPDA + NLDM )          *
*****
DSTINIT PDDNM=BNJLGPRI
DSTINIT PPASS=NPDA
DSTINIT SDDNM=BNJLGSEC
DSTINIT SPASS=NPDA
DSTINIT DSRBU=1
DSTINIT DSRBO=1
DSTINIT UNSOL=BNJUNSOL
DSTINIT FUNCT=BOTH
DSTINIT XITVN=BNJAINTA
DSTINIT XITCI=AAUSRTEA
DSTINIT XITDI=AAUINIT
INITMOD AAUICPEX DSTXIT=BNJAPAMA
CTL 003 001
W EV 012 CTRL
W ST 012 CTRL
W AL 036
R CTRL P140A0F 012
```

Note: The member name, NLDMBDST, must agree with the MEM= operand for the TASK statement in the definition of the member DSIDMN. Note that this member is used instead of BNJMBSDT for the NPDA task.

AAUPRMLP - Data Services Task Definition

Add two new members AAUPRMLP and DSIPRMLU to DSIPARM library

```

*****
*      AAUPRMLP member (NLDM initialization parameters)      *
*****
DSTINIT PDDNM=AAUVSPLP
DSTINIT PPASS=NLDM
DSTINIT SDDNM=AAUVSSLP
DSTINIT PPASS=NLDM
DSTINIT FUNCT=VSAM          if NPDA is installed
DSTINIT FUNCT=BOTH         if NPDA is not installed
DSTINIT DSRBO=10           # NLDM users + 25% of MAXEND
DSTINIT UNSOL=AAUDCPEX    if NPDA is not installed
DSTINIT XITCI=AAUSRTEA    if NPDA is not installed
DSTINIT XITVN=AAUAINTA
DSTINIT XITDI=AAUINIT
INITMOD AAUICPEX MAXSOL=50
INITMOD AAUICPEX CNMITASK=BNJDSERV    if NPDA is installed
INITMOD AAUICPEX CNMITASK=AAUTSKLP    if NPDA is not installed
INITMOD AAUINLDM AMLUNAME=ISTPDCLU
INITMOD AAUINLDM MAXTRACE=100
INITMOD AAUINLDM MAXEND=128
INITMOD AAUINLDM BUFSIZE=12K
INITMOD AAUINLDM TRACELU=NO
INITMOD AAUINLDM TRACESC=NO
INITMOD AAUINLDM KEEPSSES=3
INITMOD AAUINLDM KEEPPIU=20
INITMOD AAUINLDM KEEPDISC=50

```

Note: These statements must not begin in column 1.

DSIPRMLU - Data Services Task Definition

Add two new members AAUPRMLP and DSIPRMLU to DSIPARM library

```

*****
*      DSIPRMLU member (NCCF LU initialization parameters)    *
*****
DSTINIT FUNCT=OTHER
DSTINIT XITDI=DSILINIT
CDRMDEF M10=NCF10
CDRMDEF M12=NCF12
*****

```

DSICMD

```

*****
*
* This is a partial list
*
*****
* ATTENTION KEY ASSIGNMENTS
*
* *****
* * CLEAR * PA1 * PA2 * PF1/13 * PF2/14 * PF3/15 * *
* * * * * * * * * * * * * * * * * * * * * * * *
* * CLEAR * AGAIN * CLEAR * HELP * INFO * PFKEYS * *
* * * * * * * * * * * * * * * * * * * * * *
* * * * * * * * * * * * * * * * * * * * * *
* *****

```

```

*          * PF4/16 * PF5/17 * PF6/18 * *
*          *          *          *          * *
*          * OCCF * RESET * NLDM * *
*Note: User EXIT 01 changes *          *          *          * *
* the field created by *          *          *          * *
* the PF-keys to: ***** *
* 1/13 $1 $D * PF7/19 * PF8/20 * PF9/21 * *
* 2/14 n/c *          *          *          * *
* 3/15 $3 $F * GO * CANCEL * RESUME * *
* 4-8/16-20 n/c *          *          *          * *
* 9/21 $9 $J *          *          *          * *
* 10-11 n/c ***** *
* 12/24 $C $0 * PF10/22 * PF11/23 * PF12/24 * *
*          *          *          *          * *
*          * NPDA * AUTOWRAP * CLEAR * *
*          *          *          *          * *
*          *          *          *          * *
*          ***** *
*          *
*****
statements deleted.
*****
* NLDM VERBS
*****
NLDM CMDMDL MOD=AAUPNLDM,TYPE=R
PARMSYN KEEP,K
PARMSYN TRACE,T
PARMSYN FORCE,F
DISABLE KEYCLASS 1
8 CMDMDL MOD=AAUPNLDM,TYPE=R,CTL=S
PARMSYN KEEP,K
PARMSYN TRACE,T
PARMSYN FORCE,F
DISABLE KEYCLASS 1
H CMDMDL MOD=AAUPNLDM,TYPE=R,CTL=S
PARMSYN KEEP,K
PARMSYN TRACE,T
PARMSYN FORCE,F
DISABLE KEYCLASS 1
AAUPCPEX CMDMDL MOD=AAUPCPEX,TYPE=R
AAUDCPEX CMDMDL MOD=AAUDCPEX,TYPE=RD
AAUBMPD CMDMDL MOD=AAUPCPEX,TYPE=R
DSILUITF CMDMDL MOD=DSILUITF,TYPE=D,CTL=N
AAUD090A CMDMDL MOD=AAUD090A,TYPE=D
AAUD050A CMDMDL MOD=AAUD050A,TYPE=D
AAUD095A CMDMDL MOD=AAUD095A,TYPE=D
*****
END

```

NCCF Considerations

The NCCF disk/tape LOG facility can be used to record the NLDM users, the error messages, all NCCF commands entered by the network operator and subsequent responses.

NLDM uses NCCF logon authorization facilities. Several NCCF parameters are involved in NLDM initialization, cross-domain support, or operation:

DSIDMN MEMBER OF THE NCCF PARAMETER LIBRARY (NCCF system parameters)

NLDM INITIALIZATION

- the name of the command list, from the DSICLD library, to be executed at NCCF initialization

NCCFIC IC=

NLDM CROSS-DOMAIN SUPPORT

- the application program name which identifies NCCF to ACF/VTAM
NCCFID DOMAINID=nccfid
and used in the NCCF start domain command, in CDRMDEF statements or in the NLDM set domain command
- the maximum number of operators from alternate domains who may have sessions at one time with this NCCF
CDMNSESS n/0
- the domains which can be started by a GLOBAL operator, with their resources
nccfid RRD nodename,.....
- the maximum number of SPAN names to be handled by this NCCF
MAXSPAN n/0

NLDM OPERATION

- the type of logon authorization checking
OPTIONS VERIFY MINIMAL/NORMAL/RACF
- the maximum number of times an invalid logon is processed
MAXLOGON n/3
- the network resource names of devices that may be hardcopy devices
HARDCOPY name used by the NLDM copy command

OPERATOR'S ASSOCIATED PROFILE

NLDM CROSS-DOMAIN SUPPORT

The operator's authority:

- GLOBAL if he can control any resources in this domain and start any domain defined in RRD statements
- SPECIFIC if he can control only those resources designated by ISPAN and SPAN statements and start domains designated in DOMAINS statement (ISPAN establishes the initial environment, SPAN defines the environment which can be started by command)

NLDM OPERATION

- the eligibility to receive the messages associated with logon, lost terminal or undeliverable messages (MSGRECVR=YES)
- the name of the hardcopy log device (HCL=....)
- the name of the command list executed immediately after logon (IC=....)
- the access to a subset of commands and a subset of their keywords (OPCLASS)

ISTMGC - THE CNM ROUTING CSECT

```

*****
*          ISTMGC00 MODULE          *
*****
//ASM      EXEC PGM=IFOX00,PARM=OBJ
//SYSLIB   DD      DSN=SYS1.MACLIB,DISP=SHR
//SYSUT1   DD      DSN=SYS1.SYSUT1,DISP=VIO,SPACE=(1700,(600,100))
//SYSUT2   DD      DSN=SYS1.SYSUT2,DISP=VIO,SPACE=(1700,(300,50))
//SYSUT3   DD      DSN=SYS1.SYSUT3,DISP=VIO,SPACE=(1700,(300,50))
//SYSPRINT DD      SYSOUT=A
//SYSPUNCH DD      DUMMY
//SYSGO    DD      DSN=SYS1.OBJSET,UNIT=SYSDA,SPACE=(80,(200,50)),
//          DISP=(MOD,PASS)
//SYSIN    DD      *
ISTMGC00  CSECT
          DS      0F
          DC      X'0004'          NUMBER OF ENTRIES IN THE TABLE
          DC      X'000C'          LENGTH OF EACH ENTRY
          DC      XL4'00000000'    RESERVED
          DC      XL4'00000000'    RESERVED
*****
* FIRST ENTRY *
*****
          DC      XL1'00'          FLAGS FOR NPDA ACF/VTAM CNMI
          DC      XL3'010381'      RECFMS
          DC      C'BNJDSERV'      MUST APPEAR IN APPL STATEMENT FOR
*                                     VTAM WITH AUTH=CNM
*****
* SECOND ENTRY *
*****
          DC      XL1'00'          FLAGS FOR NPDA ACF/VTAM CNMI
          DC      XL3'410384'      RECFMS
          DC      C'BNJDSERV'      MUST APPEAR IN APPL STATEMENT FOR
*                                     VTAM WITH AUTH=CNM
*****
* THIRD ENTRY *
*****
          DC      XL1'00'          FLAGS FOR NPDA ACF/VTAM CNMI
          DC      XL3'41038D'      NMVT
          DC      C'BNJDSERV'      MUST APPEAR IN APPL STATEMENT FOR
*                                     VTAM WITH AUTH=CNM
*****
* FORTH ENTRY *
*****
          DC      XL1'00'          FLAGS FOR NPDA ACF/VTAM CNMI
          DC      XL3'410384'      RECFMS
          DC      C'AAUTSKLP'      MUST APPEAR IN APPL STATEMENT NLDM
*****
* END *
*****
          END      ISTMGC00
//LKED     EXEC PGM=IEWL,PARM=(XREF,LET,LIST,NCAL,REUS),
//          COND=(8,LT,ASM)
//SYSUT1   DD      DSN=SYS1.SYSUT1,DISP=VIO,SPACE=(1024,(50,20))
//SYSPRINT DD      SYSOUT=A
//SYSLIN   DD      DSN=SYS1.OBJSET,DISP=(OLD,DELETE)
//SYSLMOD  DD      DSN=SYS1.VTAMLIB(ISTMGC00),DISP=SHR
*****

```

APPL DEFINITION STATEMENTS FOR NCCF/NPDA

UPDATE THE NCCF APPLICATION PROGRAM MAJOR NODE to reflect the NLDM application

```
*****
*       ACF/VTAM application program major node       *
*****
AAUTSKLP APPL AUTH=CNM,EAS=5
DSIAMLUT APPL AUTH=(ACQ),VPACING=15
```

Note: See AllNCF application major node in MVS chapter.

```
*****
```

SAMPLE PROCEDURE FOR NPDA/NLDM

```
//NPDA JOB MSGCLASS=A,MSGLEVEL=(1,1),TIME=1440
//NPDA PROC NAME=BNJLINTX,RGN=4000K
//          BFSZ=8K,SLSZ=200
//ST1      EXEC PGM=&NAME,TIME=1440,REGION=&RGN,PARM=(&BFSZ,&SLSZ),
//          DPRTY=(15,10),PERFORM=13
//* *****
//* CNM LIBRARIES *
//* *****
//STEPLIB DD DSN=SYS1.NLDMLIB,DISP=SHR
//          DD DSN=SYS1.NPDALIB,DISP=SHR
//* *****
//* VSAM CATALOG *
//* *****
//STPCAT DD DSN=user.catlg,DISP=SHR
//* *****
//* CNM DEFINITIONS *
//* *****
//SYSPRINT DD SYSOUT=A
//SYSUDUMP DD SYSOUT=S
//DSICLD DD DSN=EIT.CLISTLIB,DISP=SHR
//DSIPARM DD DSN=SA11.CLISTLIB,DISP=SHR
//DSIVTAM DD DSN=RISC.VTAMLST,DISP=SHR
//DSIPRF DD DSN=RISC.DSIPRF,DISP=SHR
//          DD DSN=RISC.VTAMLST,DISP=SHR
//* *****
//* NCCF DATA SETS *
//* *****
//DSILOGP DD DSN=NCCFLOGP,DISP=SHR,AMP=AMORG
//DSILOGS DD DSN=NCCFLOGS,DISP=SHR,AMP=AMORG
//* *****
//* NPDA DATA SETS *
//* *****
//BNJLGPRI DD DSN=SA11.BNJLGPRI,DISP=SHR,AMP='AMORG,BUFNI=4'
//BNJLGSEC DD DSN=SA11.BNJLGSEC,DISP=SHR,AMP='AMORG,BUFNI=4'
//* *****
//* NLDM DATA SETS *
//* *****
//AAUVSPLP DD DSN=SA11.NLDM.DBP,DISP=SHR,
//          AMP='AMORG,BUFNI=35,BUFND=11'
//AAUVSSLP DD DSN=SA11.TEMP.NLDM.DBP,DISP=SHR,
//          AMP='AMORG,BUFNI=35,BUFND=11'
//*
```

Note: See notes in NPDA installation section.

SAMPLE TO REPRO THE NLDM PRIMARY LOG FILE

Use the VSAM REPRO function to compress the database when these numbers become excessive. As an alternative, do it on a scheduled basis, whenever you bring NCCF down, e.g., to improve the repro process use.

AMP='BUFND=n,BUFNI=2' (VSAM file)

or

DCB=BUFNO=n (sequential file)

for the source and backup data bases, where n is twice the number of CI on a track

If the NLDM database is defined reusable (in the DEF CLUSTER statement use REUSE in place of UNIQUE) then the REPRO function can be done during NCCF processing. It is only necessary to stop NLDM operator processing (NLDM END command) on all NLDM terminals and to switch to the alternate NLDM database.

```
*****
*          NLDM data base reorganization JOB                               *
*          Before executing the operator must:                             *
*          1.  NLDM END on all NLDM terminals                             *
*          2.  SWITCH AAUTSKLP,S                                           *
*****
//PRTCAT  EXEC PGM=IDCAMS
//AAUVSPLP DD DSN=SA11.NLDM.DBP,DISP=SHR,AMP=AMORG
//SYSPRINT DD SYSOUT=A
//SYSIN DD *
          VERIFY FILE(AAUVSPLP/userpass)
          LISTC ENTRIES(SA11.NLDM.DBP) ALL
/*
//REPRO   EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=A
//INPUT   DD DSN=SA11.NLDM.DBP,DISP=SHR,
//          AMP='BUFND=n,BUFNI=2'
//OUTPUT  DD DSN=NLDMmmdd,UNIT=TAPE,DISP=(NEW,PASS),
//          VOL=SER=NLDMmm,DCB=(DEN=3,BUFNO=n),LABEL=(,NL)
//SYSIN   DD *
          VERIFY FILE(INPUT)
REPRO -
          INFILE(INPUT/userpass) -
          OUTFILE(OUTPUT)
/*
//REPRO2  EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=A
//INPUT   DD DSN=NLDMmmdd,UNIT=TAPE,DISP=OLD,
//          VOL=SER=NLDMmm,DCB=(DEN=3,BUFNO=n),LABEL=(,NL)
//OUTPUT  DD DSN=SA11.NLDM.DBP,DISP=SHR,
//          AMP='BUFND=n,BUFNI=2'
//SYSIN   DD *
          VERIFY FILE(INPUT)
REPRO -
          REUSE -
          INFILE(INPUT) -
          OUTFILE(OUTPUT/userpass)
/*
//PRTCAT  EXEC PGM=IDCAMS
//AAUVSPLP DD DSN=SA11.NLDM.DBP,DISP=SHR,AMP=AMORG
//SYSPRINT DD SYSOUT=A
//SYSIN DD *
          VERIFY FILE(AAUVSPLP/userpass)
          LISTC ENTRIES(SA11.NLDM.DBP) ALL
/*
```

SAMPLE PROCEDURE FOR CHANGING ISTRACON

CHANGE THE NUMBER OF VTAM PIU TRACE BUFFERS (module ISTRACON). VTAM allocates two trace buffers of the size specified

in member AAUPRMLP. If you want to change this number, change VTAM module ISTRACON.

```
*****
*          ISTRACON MODULE                               *
*****
//ZAP      EXEC PGM=IMASPZAP
//SYSPRINT DD  SYSOUT=A
//SYSLIB   DD  DSN=SYS1.VTAMLIB,DISP=SHR
//SYSIN    DD  *
            NAME ISTRACON
            VER 0024 02
            REP 0024 0N
/*
*****
```

CHAPTER 17: SNA APPLICATION INTERFACES

This section contains sample generation or system definitions for some of the common SNA application programs.

Note: Only one example is given for each terminal/session type.

Note: The NETNAMEs in the TCT make reference to NCP, SWITCHED, TAF, VSE and MVS definitions; Chapter 5, 6, 7, 9 and 18.

CICS/VS R1.6 PROGRAM CONTROL TABLE (DFHPCT)

```

          TITLE 'CICS/OS/VS 1.6          DFH==>PCT<===MB'
          PRINT NOGEN
*****
*
*          CICS/OS/VS 1.6
*          PROGRAM CONTROL TABLE USED WITH CICS11
*          (THIS IS A PARTIAL LISTING)
*
*****
PCTMB    DFHPCT TYPE=INITIAL,SUFFIX=MB,
          INDEX=YES
*****
*
*          MESSAGE PROTECTION GROUPS FOR TASKS EXECUTING ON A VTAM TCTTE
*
*****
GROUP1   DFHPCT TYPE=OPTGRP,MSGPREQ=MSGINTEG
GROUP2   DFHPCT TYPE=OPTGRP,MSGPOPT=(CCONTRL,MSGINTEG)    MCG
GROUP3   DFHPCT TYPE=OPTGRP,MSGPOPT=PROTECT              MCG
GROUP4   DFHPCT TYPE=OPTGRP,MSGPREQ=ONEWTE              MCG
GROUP5   DFHPCT TYPE=OPTGRP,MSGPREQ=CCONTRL             MCG
GROUP6   DFHPCT TYPE=OPTGRP,MSGPREQ=(CCONTRL,MSGINTEG),
          MSGPOPT=(CCONTRL,MSGINTEG)                    MCG
*****
          STATEMENTS DELETED

*****
*
*          ISC PROJECT APPLICATIONS
*
*****
          DFHPCT TYPE=ENTRY,TRANSID=TD00,
          PROGRAM=SOAPTD00,
          SPURGE=YES,TPURGE=YES,
          CLASS=LONG,
          TWSIZE=2820,
          TCLASS=3
          DFHPCT TYPE=ENTRY,TRANSID=TD01,
          PROGRAM=SOAPTD01,
          SPURGE=YES,TPURGE=YES,DTB=YES,
          TWSIZE=2820,
          TCLASS=1
          DFHPCT TYPE=ENTRY,TRANSID=TD02,
          PROGRAM=SOAPTD02,
          SPURGE=YES,TPURGE=YES,DTB=YES,
          TWSIZE=2820,
          TCLASS=2
          DFHPCT TYPE=ENTRY,TRANSID=TD03,
          PROGRAM=SOAPTD03,
          SPURGE=YES,TPURGE=YES,DTB=YES,
          TWSIZE=2820,
          TCLASS=1

          STATEMENTS DELETED

*****
*
*          CICS/VS SYSTEM RELATED TRANIDS
*
*****

```



```

*          GENERATION BY GROUP                               *
*          (ARE ONLY GIVEN THE VTAM ENTRIES)                *
*                                                                 *
*****
RESEND   DFHPCT TYPE=GROUP, FN=RESEND   VTAM RESEND PROGRAM
RESPLOG  DFHPCT TYPE=GROUP, FN=RESPLOG  VTAM RESPONSE LOGGING
VTAM     DFHPCT TYPE=GROUP, FN=VTAM     ABNORMAL COND & SIGN-ON PGM
VTAMPRT  DFHPCT TYPE=GROUP, FN=VTAMPRT  VTAM TERM CONT PRINT KEY PGM
        DFHPCT TYPE=FINAL
        END

```

CICS/VS R1.6 PROCESSING PROGRAM TABLE (DFHPPT)

```

                TITLE 'CICS/OS/VS 1.6          FH===>PPT<===MB'
                PRINT NOGEN
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
*          CICS/OS/VS 1.6
*          PROCESSING PROGRAM TABLE USED WITH CICS11
*          (THIS IS A PARTIAL LISTING)
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                DFHPPT TYPE=INITIAL,SUFFIX=MB,INDEX=YES
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
*          ISC PROJECT APPLICATION PROGRAMS
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                DFHPPT TYPE=ENTRY,PROGRAM=SOAPMAP
                DFHPPT TYPE=ENTRY,PROGRAM=SOAPTD00
                DFHPPT TYPE=ENTRY,PROGRAM=SOAPTD01
                DFHPPT TYPE=ENTRY,PROGRAM=SOAPTD02
                DFHPPT TYPE=ENTRY,PROGRAM=SOAPTD03

                STATEMENTS DELETED

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
*          CICS/VS SYSTEM RELATED PROGRAMS
*          (ARE ONLY GIVEN THE VTAM ENTRIES)
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
RESEND   DFHPPT TYPE=GROUP,FN=RESEND      VTAM RESEND PROGRAM
RESPLOG  DFHPPT TYPE=GROUP,FN=RESPLOG    VTAM RESPONSE LOGGING
VTAM     DFHPPT TYPE=GROUP,FN=VTAM       ABNORMAL COND & SIGN-ON PGM
VTAMPRT  DFHPPT TYPE=GROUP,FN=VTAMPRT    VTAM TERM CONT PRINT KEY PGM

                DFHPPT TYPE=FINAL
                END
```

CICS/VS R1.6 TERMINAL CONTROL TABLE (DFHTCT)

```
TITLE 'CICS/OS/VS 1.6          DFH===>TCT<===MB'
PRINT NOGEN
*****
*
* CICS/OS/VS 1.6 (MVS)
* TERMINAL CONTROL TABLE USED WITH CICS11
* INCLUDES REMOTE ( CROSS DOMAIN ) RESOURCES
* AND TAF PROJECT TERMINALS
* ALSO SOME 8100 LU'S WITH OUTBOARD FORMATTING CAPABILITY
*
*****
```

INITIAL

```
DFHTCT TYPE=INITIAL,SUFFIX=MB,
        ACCMETH=(NONVTAM,VTAM),
        APPLID=CICS11,
        GMTEXT='WELCOME TO THE WTSC CICS/OS/VS.1.6 (MVS)'
        OPNDLIM=10,
        RAMAX=512,RAMIN=0,
        RAPOOL=3,RATIMES=8,
        RESP=FME
```

MVS System Console as Terminal

```
*****
****
***          MVS SYSTEM CONSOLES AS TERMINALS
****
*****
DFHTCT TYPE=TERMINAL,TRMIDNT=CN00,
        TRMTYPE=CONSOLE,
        CONSLID=00,
        TRMSTAT=TRANSCEIVE
DFHTCT TYPE=TERMINAL,TRMIDNT=CN01,
        TRMTYPE=CONSOLE,
        CONSLID=01,
        TRMSTAT=TRANSCEIVE
```

VSE System Console as Terminal

```
*****
****
***          VSE SYSTEM CONSOLE AS TERMINAL
****
*****
*CNLSL DFHTCT TYPE=SDSCI,
*      DEVICE=CONSOLE,
*      DEVADDR=SYSLOG,
*      BLKSIZE=80
* DFHTCT TYPE=LINE,
*      TRMTYPE=CONSOLE,
*      ACCMETH=SAM,
*      INAREAL=80
* DFHTCT TYPE=TERMINAL,
*      TRMIDNT=CNLSL,
*      TRMSTAT=RECEIVE
*****
```

VTAM Local Terminals SNA

```
*****
****                                     ****
***      VTAM LOCAL TERMINALS FOR MVS (DOMAIN 11)      ***
***      (LOCAL SNA)                                     ***
****                                     ****
*****
      DFHTCT TYPE=TERMINAL,TRMIDNT=L430,                X
              TRMTYPE=L3277,TRMMODL=2,LOGMODE=S3270,    X
              ACCMETH=VTAM,FEATURE=(UCTRAN),            X
              GMMSG=YES,NETNAME=H11L430,                UKA X
              TCTUAL=128,TIOAL=(256,2048),RELREQ=(YES,YES), X
              TRMSTAT=TRANSCEIVE                       X
*****
```

VTAM Local Terminals NON-SNA

```
*****
****                                     ****
***      VTAM LOCAL TERMINALS FOR VSE (DOMAIN 12)      ***
***      (LOCAL NON-SNA)                               ***
****                                     ****
*****
      SEE RMT4 TERMINAL DEFINITION IN CROSS DOMAIN      ***
****                                     ****
*****
```

VTAM Remote 3276(SDLC)

```
*****
****                                     ****
***      VTAM REMOTE TERMINALS SDLC 3276               ***
****                                     ****
*****
      DFHTCT TYPE=TERMINAL,TRMIDNT=RM01,DEFSCRN=(24,80), X
              TRMTYPE=LUTYPE2,TRMMODL=2,                X
              ACCMETH=VTAM,FEATURE=(UCTRAN),            X
              GMMSG=YES,NETNAME=T14020C1,                X
              TCTUAL=128,TIOAL=(2048,4096),RELREQ=(NO,YES), X
              TRMSTAT=TRANSCEIVE,CHNASSY=YES            X
*****
```

VTAM Remote 3277(BSC)

```
*****
****                                     ****
***      VTAM REMOTE TERMINALS BSC 3277-2             ***
****                                     ****
*****
      DFHTCT TYPE=TERMINAL,TRMIDNT=RM50,                X
              TRMTYPE=3277,TRMMODL=2,LOGMODE=S3270,    X
              ACCMETH=VTAM,FEATURE=(UCTRAN),            X
              GMMSG=YES,NETNAME=T14023A1,                X
              TCTUAL=128,TIOAL=2048,RELREQ=(NO,YES),    X
              TRMSTAT=TRANSCEIVE                       X
*****
```

VTAM Remote 5520

```
*****
**** 3270 DEFINITIONS FOR 5520 DSC                    ****
*****
```

```

DFHTCT TYPE=TERMINAL,TRMIDNT=AST1,DEFSCRN=(24,80),
TRMTYPE=LUTYPE2,TRMMODL=2,
ACCMETH=VTAM,FEATURE=(UCTRAN),
NETNAME=TAS01LU2,
TCTUAL=128,TIOAL=(256,4096),RELREQ=(YES,YES),
LOGMODE=T3278,
TRMSTAT=TRANSCEIVE,CHNASSY=YES

```

VTAM Remote NTO

```

*****
****
***      NTO DEFINITIONS
****
*****
NT01     DFHTCT TYPE=TERMINAL,TRMIDNT=NT01,TRMTYPE=TWX,
          ACCMETH=VTAM,TCTUAL=80,TIOAL=(256,768),
          PGESTAT=AUTOPAGE,PGESIZE=(24,80),TRMSTAT=TRANSCEIVE,
          RELREQ=(YES,YES),CHNASSY=YES,BRACKET=YES,RUSIZE=256,
          FEATURE=(UCTRAN),
          NETNAME=T24NTO,SESTYPE=INTLU,TRANSID=CS00
NT02     DFHTCT TYPE=TERMINAL,TRMIDNT=NT02,TRMTYPE=TWX,
          ACCMETH=VTAM,TCTUAL=80,TIOAL=(256,768),
          PGESTAT=AUTOPAGE,PGESIZE=(24,80),TRMSTAT=TRANSCEIVE,
          RELREQ=(YES,YES),CHNASSY=YES,BRACKET=YES,RUSIZE=256,
          FEATURE=(UCTRAN),
          NETNAME=T24NT01,SESTYPE=INTLU,TRANSID=CS00

```

VTAM Remote S/1

```

*****
****
***      SERIES 1 REMOTE TERMINALS SIMULATING 3279'S
****
*****
          DFHTCT TYPE=TERMINAL,TRMIDNT=SER1,TRMTYPE=SCSPRT,
          ACCMETH=VTAM,TCTUAL=128,TIOAL=(256,4096),GMMSG=YES,
          NETNAME=T14SER11
          DFHTCT TYPE=TERMINAL,TRMIDNT=SER2,DEFSCRN=(24,80),
          TRMTYPE=LUTYPE2,TRMMODL=2,
          ACCMETH=VTAM,FEATURE=(UCTRAN),
          GMMSG=YES,NETNAME=T14SER12,
          TCTUAL=128,TIOAL=(256,4096),RELREQ=(YES,YES),
          TRMSTAT=TRANSCEIVE,CHNASSY=YES

```

VTAM Remote TAF

```

*****
****
***      TERMINAL DEFINITIONS FOR TAF
****
*****
*
* LU TYPE 2
*
          DFHTCT TYPE=TERMINAL,TRMIDNT=TA10,DEFSCRN=(24,80),
          TRMTYPE=LUTYPE2,TRMMODL=2,
          ACCMETH=VTAM,FEATURE=(UCTRAN),
          GMMSG=YES,NETNAME=TAF11F00,
          TCTUAL=128,TIOAL=(2048,4096),RELREQ=(NO,YES),
          TRMSTAT=TRANSCEIVE,CHNASSY=YES
*
* LU TYPE 1
*
          DFHTCT TYPE=TERMINAL,TRMIDNT=TA30,

```

```

TRMTYPE=3767,
ACCMETH=VTAM,PGESIZE=(24,80),BUFFER=256,VF=YES,HF=YES,
NETNAME=TAF11000,PGESTAT=PAGE,
TIOAL=256,RELREQ=(YES,YES),
TRMSTAT=TRANSCEIVE,BRACKET=YES

```

Note: TAF terminals should be specified for each operator that will have access to CICS/VS. If operators from other domains must have access, then the TAF ACB's of the other domains must be specified.

DPPX LU-0 APPL-APPL

```

*****
****
***          DPPX LU-0      APPL-APPL          ***
****
*****
DFHTCT TYPE=TERMINAL,TRMIDNT=LU4A,NETNAME=LU4A,
TRMTYPE=3790,SESTYPE=USERPROG,
ACCMETH=VTAM,BUFFER=256,
BRACKET=YES,RELREQ=(YES,YES),
RUSIZE=256,LOGMODE=HPSCICS,
TIOAL=(256,8192),
TRMSTAT=TRANSCEIVE,CHNASSY=YES

```

CROSS DOMAIN (to local terms on different host)

```

*****
****
***          VTAM TERMINALS FROM CICS12 (LOCALS ON DOS/VSE)
***          ( C R O S S      D O M A I N )
***          (THIS DEFINITIONS ARE FOR LOCAL NON-SNA)
****
*****
DFHTCT TYPE=TERMINAL,TRMIDNT=RMT4,
TRMTYPE=3277,TRMMODL=2,
ACCMETH=VTAM,FEATURE=(UCTRAN),
GMMSG=YES,NETNAME=H12L080,
TCTUAL=128,TIOAL=2048,RELREQ=(NO,YES),
TRMSTAT=TRANSCEIVE

```

CROSS DOMAIN (to remotes on different host)

```

*****
****
***          VTAM TERMINALS FROM CICS12 (REMOTE ON DOS/VSE)
***          ( C R O S S      D O M A I N )
***          (REMOTE BSC 3277)
****
*****
DFHTCT TYPE=TERMINAL,TRMIDNT=RMT1,
TRMTYPE=3277,TRMMODL=2,
ACCMETH=VTAM,FEATURE=(UCTRAN),
GMMSG=YES,NETNAME=T13001A1,
TCTUAL=128,TIOAL=2048,RELREQ=(NO,YES),
TRMSTAT=TRANSCEIVE

```

INTERSYSTEM COMMUNICATION Parallel Session

```

*****
****
***          INTERSYSTEM COMMUNICATION SESSIONS
***          PARALLEL SESSION IDENTIFICATION
****

```

```

****          ISCLINK FROM CICS11 (MVS) TO CICS12 (VSE)          ****
****          ****
*****
DFHTCT TYPE=SYSTEM, SYSIDNT=B622,                                X
ACCMETH=VTAM,                                                    X
NETNAME=CICS12
MBR1 DFHTCT TYPE=TERMINAL,                                       X
TRMIDNT=MBR1,                                                    X
TRMTYPE=LUTYPE6,                                                X
SESTYPE=RECEIVE,                                                X
ACCMETH=VTAM,                                                    X
BUFFER=512,                                                       X
CHNASSY=YES,                                                      X
CONNECT=AUTO,                                                     X
DATASTR=(USER),                                                  X
NEGBIND=YES,                                                      X
RECFM=U,                                                          X
RELREQ=(NO, YES),                                                X
RUSIZE=512,                                                       X
SYSIDNT=B622,                                                     X
TIOAL=(256, 2048),                                              X
TRMSTAT=(INTLOG, TRANSCEIVE)
MBR2 DFHTCT TYPE=TERMINAL,                                       X
TRMIDNT=MBR2,                                                    X
TRMTYPE=LUTYPE6,                                                X
SESTYPE=RECEIVE,                                                X
ACCMETH=VTAM,                                                    X
BUFFER=512,                                                       X
CHNASSY=YES,                                                      X
DATASTR=(USER),                                                  X
NEGBIND=YES,                                                      X
RECFM=U,                                                          X
RELREQ=(NO, YES),                                                X
RUSIZE=512,                                                       X
SYSIDNT=B622,                                                     X
TIOAL=(256, 2048),                                              X
TRMSTAT=(INTLOG, TRANSCEIVE)
*****
****          PARALLEL SESSION IDENTIFICATION          ****
****          ****
****          ISCLINK FROM CICS11 (MVS) TO CICS61 (RTP)          ****
****          ****
*****
DFHTCT TYPE=SYSTEM, SYSIDNT=RTP1,                                X
ACCMETH=VTAM,                                                    X
NETNAME=CICS61
MRR1 DFHTCT TYPE=TERMINAL,                                       X
TRMIDNT=MRR1,                                                    X
TRMTYPE=LUTYPE6,                                                X
SESTYPE=RECEIVE,                                                X
ACCMETH=VTAM,                                                    X
BUFFER=512,                                                       X
CHNASSY=YES,                                                      X
DATASTR=(USER),                                                  X
NEGBIND=YES,                                                      X
RECFM=U,                                                          X
RELREQ=(NO, YES),                                                X
RUSIZE=512,                                                       X
SYSIDNT=RTP1,                                                     X
TIOAL=(256, 2048),                                              X
TRMSTAT=(INTLOG, TRANSCEIVE)
MRR2 DFHTCT TYPE=TERMINAL,                                       X
TRMIDNT=MRR2,                                                    X
TRMTYPE=LUTYPE6,                                                X
SESTYPE=RECEIVE,                                                X
ACCMETH=VTAM,                                                    X
BUFFER=512,                                                       X
CHNASSY=YES,                                                      X
DATASTR=(USER),                                                  X
NEGBIND=YES,                                                      X
RECFM=U,                                                          X
RELREQ=(NO, YES),                                                X
RUSIZE=512,                                                       X
SYSIDNT=RTP1,                                                     X
TIOAL=(256, 2048),                                              X

```

```

TRMSTAT=(INTLOG,TRANSCIVE)
*****
****
***          INTERSYSTEM COMMUNICATION SESSIONS          ***
***          PARALLEL SESSION IDENTIFICATION              ***
****          ISCLINK FROM CICS11 (MVS) TO IMS11 (MVS)    ****
****
*****
MIR1  DFHTCT TYPE=SYSTEM,SYSIDNT=IMS2,                      X
          ACCMETH=VTAM,                                      X
          NETNAME=IMS11
MIR1  DFHTCT TYPE=TERMINAL,                                  X
          TRMIDNT=MIR1,                                     X
          TRMTYPE=LUTYPE6,                                  X
          SESTYPE=RECEIVE,                                  X
          ACCMETH=VTAM,                                      X
          BUFFER=512,                                       X
          CHNASSY=YES,                                       X
          CONNECT=AUTO,                                       X
          DATASTR=(USER),                                   X
          NEGBIND=YES,                                       X
          NETNAMQ=PS01,                                       X
          RECFM=U,                                           X
          RELREQ=(NO,YES),                                   X
          RUSIZE=512,                                        X
          SYSIDNT=IMS2,                                       X
          TIOAL=(256,2048),                                  X
          TRMSTAT=(INTLOG,TRANSCIVE)
MIR2  DFHTCT TYPE=TERMINAL,                                  X
          TRMIDNT=MIR2,                                     X
          TRMTYPE=LUTYPE6,                                  X
          SESTYPE=RECEIVE,                                  X
          ACCMETH=VTAM,                                      X
          BUFFER=512,                                       X
          CHNASSY=YES,                                       X
          DATASTR=(USER),                                   X
          NEGBIND=YES,                                       X
          NETNAMQ=PS02,                                       X
          RECFM=U,                                           X
          RELREQ=(NO,YES),                                   X
          RUSIZE=512,                                        X
          SYSIDNT=IMS2,                                       X
          TIOAL=(256,2048),                                  X
          TRMSTAT=(INTLOG,TRANSCIVE)

```

INTERSYSTEM for DIF Product

CICS for DIF Product

```

*****
**
**          INTERSYSTEM SESSION FOR DIF PRODUCT          **
**
*****
DVXT  DFHTCT TYPE=SYSTEM,                                    X
          ACCMETH=VTAM,                                      X
          SYSIDNT=DVXT,                                      X
          NETNAME=DIF11,                                    X
          RECEIVE=(DV,1),                                   X
          TRMTYPE=LUTYPE6,                                  X
          BUFFER=300,                                       X
          RUSIZE=300,                                       X
          TRMSTAT=INPUT,                                    X
          CHNASSY=YES,                                       X
          OPERID=DV1,                                       X
          OPERPRI=1,                                        X
          TIOAL=(200),                                       X
          TRMPRTY=1
          DFHTCT TYPE=FINAL

```


END

IMS/V5 NUCLEUS GENERATION

TITLE 'IMS/V5 1.2.0 - MSC/ISC SYSTEM'

* THIS IS THE STAGE I DEFINITION FOR THE 'SAMPLE' SYSTEM
*

IMSCTRL MACRO

* *** IMSCTRL ***

* THE IMSCTRL MACRO SPECIFIES THAT THERE WILL BE A
* MAXIMUM OF TWO REGIONS AND TWO TRANSACTION CODE
* CLASSES. THE REGION SIZE IS DEFINED AS THE MINIMUM
* REGION SIZE IN THE MVS/MSE IPO.
*

CTRL IMSCTRL SYSTEM=(V5/2,ON-LINE,3.8), X
MAXIO=(50,30), MAX 20 OUTSTNDNG IO X
MAXREGN=(8,512K,I,A), 5 REGIONS X
MAXCLAS=9, 9 XCODE CLASSES X
IMSID=IMS1, ID FOR THIS IMS/V5 SYSTEM X
MCS=(8) ROUTING CODE=8 X

IMSCTF MACRO

* *** IMSCTF ***

* THE IMSCTF MACRO IDENTIFIES THE TYPE TWO SVC NUMBER
* THE SAMPLE SYSTEM ALSO DEFINES
* THAT THE ENQ/DEQ ROUTINES ARE TO USE A MINIMUM OF 2 1K
* BLOCKS IN SUB POOL 2, WHICH CAN BE INCREMENTED BY 2K
* UP TO A MAXIMUM OF 16K. THE DYNAMIC LOG DATA SET WILL BE
* ON A 3330, ITS BLOCK SIZE IS 2048 AND A TOTAL OF 4
* BUFFERS OF 2K BYTES EACH.
*

* THE SAMPLE SYSTEM ALSO SPECIFIES THAT A SINGLE LOG TAPE
* WILL BE USED AND THE DC MONITOR IS TO BE INCLUDED.
*

CTF IMSCTF SVCNO=(,237), MVS SVC X
CPLOG=1000, LOG VALUE AT 500 RECORDS X
CORE=(2,16,2),DISKLOG=YES,RDS=(3330,4096,4), X
DYLOG=(3330,2048,4),LOG=(SNGL,MONITOR) X

SPAREA MACRO

* *** SPAREA ***

* THE SPAREA MACRO DEFINES SIX CORE SCRATCH PAD
* AREAS OF 1300 BYTES EACH.
*

SPAREA CORE=(6,3060),DASD=(12,6000)

BUFPOOLS MACRO

```

*           *** BUFPOOLS ***
*
* THE BUFPOOLS MACRO DEFINES THE DEFAULT SIZE FOR VARIOUS
* BUFFER POOLS. THESE SIZES CAN BE CHANGED AT EXECUTION
* TIME VIA PARAMETERS ON THE EXEC STATEMENT.
*
BUFQ      BUFPOOLS PSB=10000,          PSB POOL      10K          X
          PSBW=10000,                PSBW POOL     10K          X
          DMB=10000,                 DMB POOL      10K          X
          GENERAL=26360,             GENERAL POOL  12000 BYTES    X
          FORMAT=20000,              MFS POOL      20K          X
          COMM=91592,                LINE I/O PL   20K          X
          FRE=20                      20 FRE'S

```

MSGQUEUE MACRO

```

*           *** MSGQUEUE ***
*
* THE MSGQUEUE DEFINES THE DEVICE TYPE FOR THE MESSAGE
* DATA SETS. THE SAMPLE SYSTEM SPECIFIES THE MESSAGE
* DATA SETS BE KEPT ON 3330 AS FOLLOWS:
* THE LRECL OF THE SHORT MESSEGE QUEUE IS 250.
* THE LRECL OF THE LONG MESSAGE QUEUE IS 1500.
* TEN BUFFERS OF 1500 BYTES EACH
*
MSGQ      MSGQUEUE DSETS=(3330,3330,3330), 3330 USED          X
          RECLNG=(250,1964),             LRECL SHMSG+LGMSG   X
          BUFFERS=(10,1964),             10 BUFFS AT 1500   X
          SHUTDOWN=150                    LOW SHUTDOWN LIMIT
MSGQ      MSGQUEUE DSETS=(3330,3330,3330), 3330 USED          X
          RECLNG=(250,1964),             LRECL SHMSG+LGMSG   X
          BUFFERS=(10,1964),             10 BUFFS AT 1500   X
          SHUTDOWN=30                     LOW SHUTDOWN LIMIT

```

DL/I DATABASE

```

*
* DEFINE DL/I SAMPLE DATA BASE
*
* THE FOLLOWING DATABASE MACRO DEFINES THE DATA BASE
* USED IN THE SAMPLE SYSTEM
*
* DATABASE DBD=DI21PART
*
* DEFINE DL/I SAMPLE APPLICATIONS
*
*
*           *** APPLCTN AND TRANSACT ***
*
*
APPLCTN   PSB=DFSSAM02,          X
          . . . . .
* The sample APPLCTN and TRANSACT macros have been omitted
* see the IPO for details.
          . . . . .
APPLCTN   ,                      BMP FUNCTION MODULE    X
          PSB=DBDIMSB,
          PGMTYPE=BATCH

```

APPLS and TXs

```
*
*****
*      APPLS AND TXS FOR IMS/V5 1.1.6 AND CICS 1.6 ISC      *
*****
*      TX.S ARE GROUPED UNDER THE SAME PSB ACCORDING TO    *
*      SOME SIMILARITIES                                    *
*****
  DATABASE DBD=ISCDB
  APPLCTN PSB=GRP1
    TRANSACT CODE=TX11,MSGTYPE=(SNGLSEG,RESPONSE,1),      X
      INQUIRY=(YES,RECOVER)
    TRANSACT CODE=TX12,MSGTYPE=(SNGLSEG,NONRESPONSE,2),   X
      INQUIRY=(YES,RECOVER)
    TRANSACT CODE=TX13,MSGTYPE=(SNGLSEG,NONRESPONSE,3),   X
      INQUIRY=(YES,NORECOV)
    TRANSACT CODE=TX14,MSGTYPE=(SNGLSEG,RESPONSE,1),      X
      INQUIRY=(YES,NORECOV)
  APPLCTN PSB=GRP2
    TRANSACT CODE=TX21,MSGTYPE=(SNGLSEG,NONRESPONSE,2)
    TRANSACT CODE=TX22,MSGTYPE=(SNGLSEG,RESPONSE,3)
  APPLCTN PSB=GRP3
    TRANSACT CODE=TX31,MSGTYPE=(SNGLSEG,RESPONSE,3),      X
      INQUIRY=(YES,RECOVER),SPA=(1000,CORE,FIXED)
    TRANSACT CODE=TX32,MSGTYPE=(SNGLSEG,RESPONSE,2),      X
      SPA=(1000,CORE,FIXED)
*
  APPLCTN PSB=GRP4
    TRANSACT CODE=TX41,MSGTYPE=(MULTSEG,RESPONSE,3),      X
      INQUIRY=(YES,RECOVER)
    TRANSACT CODE=TX42,MSGTYPE=(MULTSEG,NONRESPONSE,1),   X
      INQUIRY=(YES,RECOVER)
    TRANSACT CODE=TX43,MSGTYPE=(MULTSEG,RESPONSE,2),      X
      INQUIRY=(YES,NORECOV)
    TRANSACT CODE=TX44,MSGTYPE=(MULTSEG,NONRESPONSE,3),   X
      INQUIRY=(YES,NORECOV)
  APPLCTN PSB=GRP5
    TRANSACT CODE=TX51,MSGTYPE=(,NONRESPONSE,1)
    TRANSACT CODE=TX52,MSGTYPE=(,RESPONSE,2)
  APPLCTN PSB=GRP6
    TRANSACT CODE=TX61,MSGTYPE=(MULTSEG,RESPONSE,3),      X
      INQUIRY=(YES,RECOVER),SPA=(1000,CORE,FIXED)
    TRANSACT CODE=TX62,MSGTYPE=(MULTSEG,RESPONSE,2),      X
      SPA=(1000,CORE,FIXED)
*****
*      APPL'S AND TX'S FOR 8100 SYSTEM C                    *
*****
  APPLCTN PSB=PGM8100E,PGMTYPE=TP
    TRANSACT CODE=TR8100E,MSGTYPE=(MULTSEG,NONRESPONSE,2), X
      PROCLIM=(5,10),MODE=SNGL
  APPLCTN PSB=PGM8100F,PGMTYPE=TP
    TRANSACT CODE=TR8100F,MSGTYPE=(MULTSEG,NONRESPONSE,3), X
      PROCLIM=(5,10),MODE=SNGL
*****
*      APPL'S AND TX'S FOR IMS/V5 1.1.6 AND CICS 1.6 ISC  *
*      TESTED OCT.'80                                       *
*****
  APPLCTN PSB=ISC010
    TRANSACT CODE=SIRR1,MSGTYPE=(SNGLSEG,RESPONSE,1),      X
      INQUIRY=(YES,RECOVER)
  APPLCTN PSB=ISC020
    TRANSACT CODE=SIRN1,MSGTYPE=(SNGLSEG,NONRESPONSE,2),   X
      INQUIRY=(YES,RECOVER)
  APPLCTN PSB=ISC030
    TRANSACT CODE=SINR1,MSGTYPE=(SNGLSEG,RESPONSE,3),      X
      INQUIRY=(YES,NORECOV)
  APPLCTN PSB=ISC040
    TRANSACT CODE=SINN1,MSGTYPE=(SNGLSEG,NONRESPONSE,1),   X
      INQUIRY=(YES,NORECOV)
* * * * *
*      OTHERS APPL. & TRANS. FOR I.S.C. TESTS            *
* * * * *
  APPLCTN PSB=AI01
```

```

TRANSACT CODE=TI01,INQUIRY=YES,MODE=SNGL, X
MSGTYPE=(,RESPONSE)
TRANSACT CODE=TI02,MODE=SNGL
TRANSACT CODE=TI03,MODE=SNGL
TRANSACT CODE=TI04,MODE=SNGL
TRANSACT CODE=TI06,MODE=SNGL
TRANSACT CODE=TI07,MODE=SNGL
APPLCTN PSB=AI02
TRANSACT CODE=TI05,MODE=SNGL,MSGTYPE=(,RESPONSE), X
SPA=(1000,CORE,FIXED)
APPLCTN PSB=AI03
TRANSACT CODE=TI08,MODE=SNGL
TRANSACT CODE=TI10,MODE=SNGL
TRANSACT CODE=TI16,MODE=SNGL
TRANSACT CODE=TI17,MODE=SNGL,INQUIRY=(YES,NORECOV)
APPLCTN PSB=AI04
TRANSACT CODE=TI09,MODE=SNGL
TRANSACT CODE=TI11,MODE=SNGL
APPLCTN PSB=AI05
TRANSACT CODE=TI12,MODE=SNGL
TRANSACT CODE=TI13,MODE=SNGL
TRANSACT CODE=TI14,MODE=SNGL
TRANSACT CODE=TI15,MODE=SNGL
APPLCTN PSB=SAMPLA
TRANSACT CODE=SAMPLA1,INQ=(YES,NORECOV)
TRANSACT CODE=SAMPLA2,INQ=NO
*
*****
*** THE FOLLOWING TRANSACTIONS WILL BE USED FOR TESTING ***
*** HOST COMMUNICATION FROM 8100 ***
*****
APPLCTN PSB=PGM8100A, X
PGMTYPE=TP
TRANSACT CODE=TR8100A, X
PROCLIM=(5,10), X
MODE=SNGL, X
MSGTYPE=(SNGLSEG,RESPONSE)
*
APPLCTN PSB=PGM8100B, X
PGMTYPE=TP
TRANSACT CODE=TR8100B, X
PROCLIM=(5,10), X
MODE=SNGL, X
MSGTYPE=(MULTSEG,RESPONSE)
*
APPLCTN PSB=PGM8100C, X
PGMTYPE=TP
TRANSACT CODE=TR8100C, X
PROCLIM=(5,10), X
MODE=SNGL, X
MSGTYPE=(MULTSEG,NONRESPONSE)
*
APPLCTN PSB=PGM8100D, X
PGMTYPE=TP
TRANSACT CODE=TR8100D, X
PROCLIM=(5,10), X
MODE=SNGL, X
MSGTYPE=(SNGLSEG,NONRESPONSE)
*****
*** DATABASES FOR POSSIBLE USE FROM 8100 *
*****
DATABASE DBD=DB8100A
DATABASE DBD=DB8100B
DATABASE DBD=DB8100C
DATABASE DBD=DB8100D
*****
*** END OF 8100 TRANSACTIONS AND DATABASES ***
*****
* *** COMM ***
*
COMM APPLID=IMS11,RECANV=(8,4000),EDTNAME=ISCE, *
OPTIONS=(PAGING,TIMESTAMP,4096,FMTMAST,VTMAUTH)

```

VTAM NETWORK DEFINITION

```
*
*****
***** VTAM NETWORK DEFINITION *****
***** USING THE MULTI-DOMAIN *****
***** NAMING CONVENTION *****12/04/80*****
*****
```

LOCAL 3277

***** LOCAL DISPLAY TERMINALS FOR MVS/VTAM *****

```
*
      TYPE  UNITYPE=(3270,LOCAL),
            UNIT=3277,MODEL=2,
            FEAT=IGNORE,
            OPTIONS=TRANRESP,
            PTRSIZE=IGNORE
*
      TERMINAL  NAME=H11L371
      NAME      (MTO,MASTER)
      NAME      LOC21
*
      TERMINAL  NAME=H11L372
      NAME      LOC22
*
      TERMINAL  NAME=H01L371
      NAME      LOC25
```

3286

*** ONE LOCAL PRINTER TERMINAL

```
*
      TERMINAL  NAME=H11L370,
            UNIT=3286,MODEL=2,
            NAME  (MTO,PRINT,SECONDARY)
            NAME  LOC30
*
X
```

ATTACHED TO CICS22 ***** LOCAL TERMINALS **

```
*
      TYPE  UNITYPE=(3270,LOCAL),
            UNIT=3277,MODEL=2,
            FEAT=IGNORE,
            OPTIONS=TRANRESP,
            PTRSIZE=IGNORE
*
      TERMINAL  NAME=H22L3A2
      NAME      IBL022
*
X
```

*** ONE LOCAL PRINTER TERMINAL

```
*
      TERMINAL  NAME=H22L3A0,
            UNIT=3286,MODEL=2,
            NAME  IBL020
*
X
```

ATTACHED TO CICS61 ***** LOCAL TERMINALS ***

```
*
      TYPE  UNITYPE=(3270,LOCAL),
            UNIT=3277,MODEL=2,
            FEAT=IGNORE,
            OPTIONS=TRANRESP,
            PTRSIZE=IGNORE
*
      TERMINAL  NAME=H91L022
      NAME      IRL022
*
X
```

```
*   *** ONE LOCAL PRINTER TERMINAL
*
*   TERMINAL NAME=H91L020,
*   UNIT=3286,MODEL=2
*   NAME   IRL020
*
*
```

Remote 3767

```
*****
***** REMOTE 3767 TERMINALS *****
*****
*
*   TYPE UNITYPE=3767,OPTIONS=NOMFS
*   TERMINAL NAME=T14022A1
*   NAME R37671
*
*
```

TAF SLUTYPE1

```
*
*   TYPE UNITYPE=SLUTYPE1
*   TERMINAL NAME=TAF00
*   NAME TAF11000
*
*
```

Remote 3277

```
*
*****
***** REMOTE 3270 TERMINALS FOR MVS *****
*****
*
*   TYPE UNITYPE=3270,
*   UNIT=3277,MODEL=2,
*   FEAT=IGNORE,
*   OPTIONS=TRANRESP,
*   PTRSIZE=IGNORE
*
*   *** ONE REMOTE PRINTER TERMINAL (BSC DRIVEN) ***
*
*   TERMINAL NAME=T04023A4,
*   UNIT=3286,MODEL=2
*   NAME   BSCA4
*
*   *** TWO REMOTE DISPLAY TERMINALS (BSC DRIVEN) ***
*
*   TERMINAL NAME=T24023A1
*   NAME   IBRBSC1
*   TERMINAL NAME=T24023A2
*   NAME   IBRBSC2
*
*   *** ONE REMOTE PRINTER TERMINAL (BSC DRIVEN) ***
*
*   TERMINAL NAME=T24023A4,
*   UNIT=3286,MODEL=2
*   NAME   IBRBSC4
*   TYPE UNITYPE=SLUTYPE2
*
```

3274-1A SNA (Channel attached)

```
*****
***** 3274-1A SNA CHANNEL ATTACHED DISPLAYS *****
```

```

*****
LOC791 TERMINAL NAME=H11S91,          3279-2      X
        TYPE=3270-A2,SIZE=(24,80),           X
        FEAT=IGNORE,                          X
        OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST), X
        OUTBUF=1536
        NAME LOC791
LOC871 TERMINAL NAME=H11S71,          3279-2      X
        TYPE=3270-A2,SIZE=(24,80),           X
        FEAT=IGNORE,                          X
        OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST), X
        OUTBUF=1536
        NAME LOC871

```

3276 SDLC

```

*****
*****          3276 SDLC ATTACHED DISPLAYS          *****
*****
        TERMINAL NAME=H14020C1,          3276-12      X
        TYPE=3270-A2,SIZE=(24,80),           X
        FEAT=IGNORE,                          X
        OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST), X
        OUTBUF=3600
        NAME LU201
*
*
        TERMINAL NAME=T04020C1          3278-2
        NAME LU206
*
        TERMINAL NAME=T04020F1          3278-2
        NAME LU207
*
        TERMINAL NAME=T14020C2,          3278-3      X
        TYPE=3270-A3,SIZE=(32,80),           X
        FEAT=IGNORE,                          X
        OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST), X
        OUTBUF=3600
        NAME LU208
*

```

NCCF/TAF

```

*****
*****          NCCF/TAF NODES FOR LU2 ATTACHMENT          *****
*****
        TERMINAL NAME=TAF11F00,          X
        TYPE=3270-A2,SIZE=(24,80),           X
        FEAT=IGNORE,                          X
        OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST), X
        OUTBUF=1920
        NAME TAF21
*

```

DPPX/3270 Compatibility

```

*****
*****          DPPX/3270 COMPATIBILITY MODE          *****
*****
L18A   TERMINAL NAME=L18A,          X
        TYPE=3270-A2,SIZE=(24,80),           X
        FEAT=IGNORE,                          X
        OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST), X
        OUTBUF=768
        NAME L18A
L19A   TERMINAL NAME=L19A,          X

```

```

TYPE=3270-A3,SIZE=(32,80),
FEAT=IGNORE,
OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST),
OUTBUF=768
NAME L19A

```

```

X
X
X

```

SLU for DPPX

```

*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
*   SLUTYPEP TERMINALS FOR 8100 SYSTEM A
*   LUs ARE L10A-L17A
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
TYPE UNITYPE=SLUTYPEP
*
L10A  TERMINAL NAME=L10A,MSGDEL=SYSINFO,
      COMPT1=(PROGRAM1,BASIC),OUTBUF=256,SEGSIZE=256,
      OPTIONS=(FORCRESP,PAGDEL,OPNDST,OPTACK,BID)
*
NAME L10A
*
NAME L14A
*
L15A  TERMINAL NAME=L15A,MSGDEL=SYSINFO,
      COMPT1=(PROGRAM1,BASIC),OUTBUF=3840,SEGSIZE=256,
      OPTIONS=(TRANRESP,PAGDEL,OPNDST,OPTACK,BID)
*
NAME L15A
*

```

```

X
X
X
X
X

```

SLUTYPE1 for SERIES 1

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*
*   SLUTYPE1 TERMINALS FOR SERIES 1
*   LUs ARE T24020E1
*   It works with the SNA Printer Emulation under RPS/MTM
*
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TYPE UNITYPE=SLUTYPE1
TERMINAL NAME=T24020E1,COMPT1=(PRINTER1,BASIC-SCS1),
COMPT2=(TRANSDS1,BASIC-SCS2),
COMPT3=(PRINTDS1,BASIC-SCS1),
COMPT4=(USERDS1,BASIC)
NAME R7PRT1,COMPT=1
NAME R7TDS1,ICOMPT=2
NAME R7PDS1,COMPT=3
NAME R7UDS1,COMPT=4,ICOMPT=4

```

```

X
X
X

```

3279 Simulated IN SERIES 1(SLU2)

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
***** 3279 SIMULATED IN SERIES 1 (SLUTYPE 2) *****
***** It works with the RPS/MTM Pass-through services *****
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TYPE UNITYPE=SLUTYPE2
T24020E2 TERMINAL NAME=T24020E2, 3279-2
TYPE=3270-A2,SIZE=(24,80),
FEAT=IGNORE,
OPTIONS=(TRANRESP,COPY,PAGDEL,OPNDST),
OUTBUF=1536

```

```

X
X
X
X

```



```

NAME T24020E2
*****
*
* SLUTYPEP TERMINALS FOR SERIES/1
* LUs ARE T24020E3 TO EB
* It works with the Communications Monitor's LU0 MPP
*
*****
*
* TYPE UNITYPE=SLUTYPEP
*
T24020E3 TERMINAL NAME=T24020E3,MSGDEL=SYSINFO,
COMPT1=(PROGRAM1,BASIC),OUTBUF=256,SEGSIZE=256,
OPTIONS=(FORCRESP,PAGDEL,OPNDST,OPTACK,BID)
*
NAME T24020E3

```

LU TYPE 6 NODE

```

*
*****
* LU TYPE 6 NODE DEFINITIONS
*****
*
* TYPE UNITYPE=LUTYPE6,OPTIONS=(TRANRESP,OPNDST,PAGDEL,MTOMSG,
* LTWA,FORCSESS),
* MSGDEL=SYSINFO,
* OUTBUF=512,
* SEGSIZE=512
*
**CIC MVS 370 NODE NEW NAME
*
* TERMINAL NAME=CICS11,
* SESSION=10,
* COMPT1=(SINGLE1,DPM-B1,IGNORE),
* COMPT2=(SINGLE2,DPM-B1,IGNORE),
* COMPT3=(MULT1,DPM-B1,IGNORE),
* COMPT4=(MULT2,DPM-B1,IGNORE)
*
**CICS DOS 370 NODE NEW NAME
*
* TERMINAL NAME=CICS22,
* SESSION=10,
* COMPT1=(SINGLE1,DPM-B1,IGNORE),
* COMPT2=(SINGLE2,DPM-B1,IGNORE),
* COMPT3=(MULT1,DPM-B1,IGNORE),
* COMPT4=(MULT2,DPM-B1,IGNORE)
*
**CICS DOS 4331 NODE NEW NAME
*
* TERMINAL NAME=CICS90,
* SESSION=10,
* COMPT1=(SINGLE1,DPM-B1,IGNORE),
* COMPT2=(SINGLE2,DPM-B1,IGNORE),
* COMPT3=(MULT1,DPM-B1,IGNORE),
* COMPT4=(MULT2,DPM-B1,IGNORE)

```

VTAM SUBPOOL

```

*****
* START OF VTAM SUBPOOL DEFINITIONS
*****
*
* VTAMPOOL
*
* SUBPOOL NAMEING CONVENTION:
* FIRST CHARACTER IS ALWAYS 'P'
* SECOND CHARACTER IS P IF CICS IS PRIMARY
* THIRD CHARACTER IS DBA VALUE
* FOURTH CHARACTER IS COMPONENT NUMBER
*

```

```

SUBPOOL NAME=PP01
  NAME LP11,COMPT=1,ICOMPT=1
  NAME LP12,COMPT=2,ICOMPT=2
  NAME LP13,COMPT=3,ICOMPT=3
  NAME LP14,COMPT=4,ICOMPT=4
SUBPOOL NAME=PP02
  NAME LP21,COMPT=1,ICOMPT=1
  NAME LP22,COMPT=2,ICOMPT=2
  NAME LP23,COMPT=3,ICOMPT=3
  NAME LP24,COMPT=4,ICOMPT=4
SUBPOOL NAME=PP03
  NAME LP31,COMPT=1,ICOMPT=1
  NAME LP32,COMPT=2,ICOMPT=2
  NAME LP33,COMPT=3,ICOMPT=3
  NAME LP34,COMPT=4,ICOMPT=4
SUBPOOL NAME=PS42
  NAME PSLT42,COMPT=2,ICOMPT=2
SUBPOOL NAME=PS43
  NAME PSLT43,COMPT=3,ICOMPT=3
SUBPOOL NAME=PS44
  NAME PSLT44,COMPT=4,ICOMPT=4

```

IMSGEN Macro

```

IMSGEN ASM=H,ASMPRT=OFF,
  LKPRT=(XREF,LIST),LKSIZE=(180K,50K),LKRGN=256K,
  SUFFIX=0,MACLIB=ALL,OBJDSET=IMSVS.OBJDSET,
  PROCLIB=YES,NODE=(IMSVS2,,IMSVS2),
  MFSTEST=(YES,4000),PAGE=YES,
  JOBCTL=(1,H,A,(1,A009)),PRTY=0

```

X
X
X
X
X

END

/*

DOCUMENTATION

Communication Network Management
NCCF Terminal Access Facility

GG24-1540

TAF INSTALLATION EXAMPLES

DSICMD Example

```

./ ADD NAME=DSICMD
*****
*
* This is a partial list
*
*****

statements deleted

*****
*
* DSICMDT:  TERMINAL ACCESS FACILITY FEATURE
*
*          REQUIRED COMMAND MODEL (CMDMDL) STATEMENTS
*          TO OPERATE THE TERMINAL ACCESS FACILITY.
*
*          THESE STATEMENTS OR THEIR EQUIVALENT MUST
*          be ADDED TO THE DSICMD MEMBER BEING USED
*          TO START NCCF.
*
*****
LISTSESS  CMDMDL  MOD=DSILIST1
          PARM SYN  OPCTL,0
          PARM SYN  FLSCN,F
          PARM SYN  APPLID,A
          PARM SYN  SRCLU,L
BGNSSESS  CMDMDL  MOD=DSIBEG
          PARM SYN  OPCTL,0
          PARM SYN  FLSCN,F
          PARM SYN  APPLID,A
          PARM SYN  SRCLU,L
          PARM SYN  SESSID,S
          PARM SYN  LOGMODE,LM
          PARM SYN  TEXT,T
          PARM SYN  D,DISC
          PARM SYN  INT,I
ENDSESS   CMDMDL  MOD=DSIEND          TAF STOP PROCESSOR
          PARM SYN  OPCTL,0
          PARM SYN  FLSCN,F
          PARM SYN  APPLID,A
          PARM SYN  SESSID,S
          PARM SYN  ALL,ALL
SENSESS   CMDMDL  MOD=DSIRTPX        TAF SEND PROCESSOR
          PARM SYN  SESSID,S
RTRNSESS  CMDMDL  MOD=DSICNT          TAF CONNECT PROCESSOR
          PARM SYN  APPLID,A
          PARM SYN  D,DISC
          PARM SYN  INT,I
DSIFREE   CMDMDL  MOD=DSIFREE
DSILU2    CMDMDL  MOD=DSILU2
*****
* TAF CLISTS
*****
BGCICS    CMDMDL  MOD=DSICCP
BGHCF     CMDMDL  MOD=DSICCP
BGIMS     CMDMDL  MOD=DSICCP

```

```

BGTAFF      CMDMDL MOD=DSICCP
LOGON       CMDMDL MOD=DSICCP
LCICS       CMDMDL MOD=DSICCP
LHCF        CMDMDL MOD=DSICCP
LIMS        CMDMDL MOD=DSICCP
LNPA        CMDMDL MOD=DSICCP
LNPAM       CMDMDL MOD=DSICCP
LTAF        CMDMDL MOD=DSICCP
LTSO        CMDMDL MOD=DSICCP
RCICS       CMDMDL MOD=DSICCP
RIMS        CMDMDL MOD=DSICCP
RHCF        CMDMDL MOD=DSICCP
RNPA        CMDMDL MOD=DSICCP
RTAF        CMDMDL MOD=DSICCP
RTSO        CMDMDL MOD=DSICCP
SCICS       CMDMDL MOD=DSICCP
SHCF        CMDMDL MOD=DSICCP
SIMS        CMDMDL MOD=DSICCP
STAF        CMDMDL MOD=DSICCP
STOPTAF     CMDMDL MOD=DSICCP
*****
*   TAF   END OF DEFINITIONS
*****
      END

```

Note: This member includes TAF definitions only.

Note: PARMSYN statements can be used to make NCCF/TAF parameters easier to use for the operators, but are not required.

```
*****
```

User Command List (CLISTS) Examples

BGTAF CLIST

```
./ ADD NAME=BGTAF
  CLIST
&CONTROL CMD
CLEAR
* default setting
&TAFST = &SUBSTR &APPLID 4 2
&P2 = &CONCAT TAF &TAFST
&P2 = &CONCAT &P2 0
&TAFST = &SUBSTR &APPLID 7 2
&P2 = &CONCAT &P2 &TAFST
&TAFST = &SUBSTR &APPLID 4 2
&P4 = &CONCAT SID &TAFST
&SID = &CONCAT &P4 OP
* help wanted ?
&IF .&1 EQ .? &THEN &GOTO -HELP
&IF .&1 EQ . &THEN &GOTO -HELP
* any parms entered ? if not, default
&IF .&1 NE . &THEN &P1 = &1
&IF .&2 NE . &THEN &P2 = &2
&P3 = &SUBSTR &3 1 2
&SID = &P3
&IF .&3 EQ . &THEN &P3 = OP
&P3 = &CONCAT &P4 &P3
BGNSSESS OPCTL,APPLID=&P1,SRCLU=&P2,SESSID=&P3
&BEGWRITE SUB -END
Wait for: Message from &P1, then
Enter: STAF &SID,'any &P1 command'
-END1
&EXIT
-HELP
&BEGWRITE SUB -END
Enter: BGTAF to start session to APPL in line mode
To override default values
Enter: BGTAF applid, default: NONE
. srclu, default: &P2
. sessid default: &SID
-END

*****
```

LOGON CLIST

```
./ ADD NAME=LOGON
CLIST
&CONTROL ERR
&A = &1
&B = &2
&C = &3
&D = &4
&IF .&A EQ . &THEN &GOTO -HELPF
&IF &1 EQ HELP &THEN &GOTO -HELPF
&IF &1 EQ ? &THEN &GOTO -HELPF
&IF &1 EQ IMS &THEN &GOTO -IMS
&IF &1 EQ CICS &THEN &GOTO -CICS
&IF &1 EQ VM &THEN &GOTO -VM
&IF &1 EQ HCF &THEN &GOTO -HCF
&IF &1 EQ NPA &THEN &GOTO -NPA
&IF &1 EQ TSO &THEN &GOTO -TSO
&IF &1 EQ NPDA &THEN &GOTO -NPDA
LTAF &A &B &C &D
&EXIT
-IMS
LIMS &B &C &D
&EXIT
-CICS
LCICS &B &C &D
&EXIT
-VM
LVM &B &C &D
&EXIT
-HCF
LHCF &B &C &D
&EXIT
-NPA
LNPA &B &C &D
&EXIT
-TSO
LTSO &B &C &D
&EXIT
-NPDA
LNPDA &B &C &D
&EXIT
-HELPF
FS 4 TUTAFCLI
```

LTAF CLIST for TAF Logon

```
./ ADD NAME=LTAF
  CLIST
&CONTROL CMD
&TAFST = &SUBSTR &APPLID 4 2
* default setting
* The following should be set to reflect local APPLID.
&P1 = &CONCAT CICS &TAFST
&P2 = &CONCAT TAF &TAFST
&P2 = &CONCAT &P2 F
&TAFST = &SUBSTR &APPLID 7 2
&P2 = &CONCAT &P2 &TAFST
&P3 = PA2
&P4 = D6327802
* help wanted ?
&IF .&1 EQ .? &THEN &GOTO -HELP
* any parms entered ? if not, default
&IF .&1 EQ . &THEN &GOTO -HELP
&IF .&2 NE . &THEN &P2 = &2
&IF .&3 NE . &THEN &P3 = &3
&IF .&4 NE . &THEN &P4 = &4
BGNSSESS FLSCN,APPLID=&1,SRCLU=&P2,D=&P3,LM=&P4
&EXIT
-HELP
?FS 4 TUTAFCLI
* add tutorial here.
```

Note: This CLIST is for full screen TAF sessions and assumes the naming conventions described in this guide are used.

RTAF CLIST

```
./ ADD NAME=RTAF
  CLIST
&CONTROL CMD
&IF .&1 EQ .? &THEN &GOTO -HELP
&IF .&1 EQ . &THEN &GOTO -HELP
RTRNSESS APPLID=&1
&EXIT
-HELP
&WRITE ENTER: RTAF applid to reconnect to APPL in full screen mode.
&WRITE 'APPLID' is required.
```

STAF CLIST

```
./ ADD NAME=STAF
  CLIST
&CONTROL CMD
&P1 = &1
&IF .&P1 EQ . &THEN &GOTO -HELP
&IF &P1 EQ ? &THEN &GOTO -HELP
SENDESS &P1,&2 &3 &4 &5 &6 &7 &8 &9
&EXIT
-HELP
&WRITE ENTER: STAF sessid,command
&WRITE                                     to route command to application.
&WRITE                                     If the command contains commas, the
&WRITE                                     command has to be enclosed in apostrophes
*****
```

STOPTAF CLIST

```
./ ADD NAME=STOPTAF
  CLIST
&CONTROL ERR
&P1 = &SUBSTR &1 1 1
&IF .&P1 EQ .F &THEN &GOTO -FLSCN
ENDESS OPCTL,ALL
&IF .&P1 EQ .O &THEN &EXIT
-FLSCN
ENDESS FLSCN,ALL
*****
```

APPL Statements

```
*****
A TAF APPL statement is required for each screen session that a opera-
tor establishes.
*****
./ ADD NAME=A11TAF
*
* APPL DEFINITION STATEMENTS FOR TAF
*
      VBUILD TYPE=APPL
*
* APPL DEFINITION STATEMENTS FOR TAF
*
      VBUILD TYPE=APPL
TAF11000  APPL  MODETAB=MODETAB1,EAS=9
TAF11001  APPL  MODETAB=MODETAB1,EAS=9
TAF11002  APPL  MODETAB=MODETAB1,EAS=9
TAF11003  APPL  MODETAB=MODETAB1,EAS=9
TAF11004  APPL  MODETAB=MODETAB1,EAS=9
TAF11005  APPL  MODETAB=MODETAB1,EAS=9
TAF11006  APPL  MODETAB=MODETAB1,EAS=9
TAF11007  APPL  MODETAB=MODETAB1,EAS=9
TAF11008  APPL  MODETAB=MODETAB1,EAS=9
TAF11009  APPL  MODETAB=MODETAB1,EAS=9
TAF11F00  APPL  MODETAB=MTLUTY2,EAS=9
TAF11F01  APPL  MODETAB=MTLUTY2,EAS=9
TAF11F02  APPL  MODETAB=MTLUTY2,EAS=9
TAF11F03  APPL  MODETAB=MTLUTY2,EAS=9
TAF11F04  APPL  MODETAB=MTLUTY2,EAS=9
TAF11F05  APPL  MODETAB=MTLUTY2,EAS=9
TAF11F06  APPL  MODETAB=MTLUTY2,EAS=9
TAF11F07  APPL  MODETAB=MTLUTY2,EAS=9
TAF11F08  APPL  MODETAB=MTLUTY2,EAS=9
TAF11F09  APPL  MODETAB=MTLUTY2,EAS=9
TAF11F10  APPL  MODETAB=MT3274A2,EAS=9
*****
```

MODETAB1 LU-1 Mode Table Entry

This is the logmode table used for LU-1 communication.
(It is the standard 3767 modetable).

See TAF MODETAB1 in Chapter 4.

```
*****
```

MTLUTY2 LU-2 Mode Table Entry

This is the logmode table used for LU-2 communication.
(It is similar to 3274/3276 in SDLC).

See TAF MTLUTY2 in Chapter 4.

```
*****
```

CICS DEFINITIONS

The TAF/CICS definitions are given in the SNA Application
Interfaces Chapter.

REFERENCES

NTO Installation	SC38-0298
NTO Installation and Problem Determination	G320-5887
TWX Terminal Installation and Problem Determination	G320-5901

NTO CONSIDERATIONS

When NTO needs to be installed, 4 definitions are required:

1. NCP definitions.
2. NTO macro definitions.
3. ACF/VTAM switched major node definitions.
4. Applications definitions (CICS, IMS, etc.).

Some examples will be given here.

NCP GENERATION

Note: This a partial NCP/NTO, not all the definitions are included.
 Only the NTO related parameters are shown.
 In same operands, the default values have been taken.

PRINT NOGEN

```

*****
*   NEWNAME = N245F3T   *
*****
*   AC F/NCP VERSION 2   *
*   SUBAREA = 24        *
*****
*   OAO   S/S, HDX,   DISPLAYWRITER TWX   *NTO*
*   OA1   S/S, HDX,   DISPLAYWRITER 2741  *NTO*
*****
*   BUILD MACRO SPECIFICATIONS
*****
N245F3S  BUILD ABEND=YES,
          BFRS=128,           MUST BE >= 90 FOR NTO      NTO X
          CA=(TYPE4,TYPE4-1),
          CUID=,
          CWALL=20,
          DELAY=(0.2,0.2),
          ENABLTO=6.5,
          JOBCARD=MULTI,
          LESIZE=320,
          LOADLIB=LOAD,
          LTRACE=4,
          MAXSSCP=8,           MUST BE >= 2 FOR NTO      NTO X
          MAXSUBA=63,
          MEMSIZE=320,
          MODEL=3705-2,
          NEWNAME=N245F3T,
          NCPCA=(ACTIVE,ACTIVE),
          NUMHSAS=6,
          OBJLIB=N245F3T,
          OBJQUAL=24,
          OLT=YES,
          OUTPUT=(NCP73ASL,NCPPOST,NCP73LKL),
          PRTGEN=(NOGEN,NOGEN),
          PARTIAL=NO,
          QUALIFY=NCP730,
          RESOEXT=40,
          SLODOWN=12,
          SUBAREA=24,
          TIMEOUT=(120,120),
          TRACE=(YES,64),
          TYPGEN=NCP,
          TYP SYS=OS,
          UNIT=SYSDA,
          VRPOOL=20
    
```

```

*****
*          SYSCNTRL MACRO SPECIFICATIONS          *
*****
NCPSSYC SYSCNTRL OPTIONS=(BHSASSC,                NTO X
                        ENDCALL,                   NTO X
                        MODE,                       NTO X
                        RCNTRL,RCOND,RECMD,RIMM,    NTO X
                        NAKLIM,SESSION,SSPAUSE,     NTO X
                        XMTLMT,                     NTO
                        STORDSP,DLRID,RDEVQ)
*****NTO*
*          NCPNAU MACRO SPECIFICATIONS FOR NTO    *
*****NTO*
NTO24   NCPNAU NAUFVT=CXNFVTN,                    *NTO*X
        NAUCB=NT024CB,                             *NTO*X
        TYPE=SSCP                                   *NTO*
*****NTO*
*          REAL LINE GROUP FOR NTO SUPPORTED      *
*          DISPLAYWRITER - TWX                    *
*****NTO*
G240A0  GROUP LNCTL=SS,                            *NTO*X
        CALL=IN,                                    *NTO*X
        CHAREC=(XOFF,50),                           *NTO*X
        DIAL=YES,                                    *NTO*X
        REPLYTO=NONE,                                *NTO*X
        TEXTTO=NONE,                                 *NTO*X
        SECURE=YES,                                  *NTO*X
        TYPE=NCP                                     *NTO*
L240A0  LINE ADDRESS=0A0,                            *NTO*X
        CLOCKNG=INT,                                 *NTO*X
        CODE=ASCII,                                  *NTO*X
        DUPLEX=FULL,                                  *NTO*X
        ISTATUS=INACTIVE,                            *NTO*X
        LINESIZ=80,                                   *NTO*X
        MONITOR=YES,                                  *NTO*X
        POLLED=NO,                                    *NTO*X
        PROMPT=NO,                                    *NTO*X
        SPEED=300,                                    *NTO*
T240A0  TERMINAL TERM=TWX,                           *NTO*X
        ATTN=ENABLED,                                *NTO*X
        CTERM=YES,                                    *NTO*X
        DIRECTN=INOUT,                                *NTO*X
        FEATURE=(ATTN,BREAK)                          *NTO*
*****NTO*
*          REAL LINE GROUP FOR NTO SUPPORTED      *
*          DISPLAYWRITER - 2741                    *
*****NTO*
G240A1  GROUP LNCTL=SS,                            *NTO*X
        CALL=IN,                                    *NTO*X
        DIAL=YES,                                    *NTO*X
        REPLYTO=NONE,                                *NTO*X
        SECURE=YES,                                  *NTO*X
        TEXTTO=NONE,                                 *NTO*X
        TYPE=NCP                                     *NTO*

```

```

L240A1  LINE  ADDRESS=0A1,                *NTO*X
          CLOCKNG=INT,              *NTO*X
          CODE=COR,                 *NTO*X
          DUPLEX=FULL,              *NTO*X
          ISTATUS=INACTIVE,         *NTO*X
          MONITOR=YES,              *NTO*X
          POLLED=NO,                *NTO*X
          SPEED=300                 *NTO*X
T240A1  TERMINAL TERM=2741,         *NTO*X
          ATTN=ENABLED,             *NTO*X
          CTERM=YES,                *NTO*X
          DIRECTN=INOUT,            *NTO*X
          FEATURE=(ATTN,BREAK)      *NTO*X
*****
*   VIRTUAL GROUP FOR NTO DISPLAYWRITER (SWITCHED TWX) *NTO*X
*****
G24NTO  GROUP LNCTL=SDLC,           *NTO*X
          DIAL=YES,                 *NTO*X
          MAXLU=1,                  *NTO*X
          LINEFVT=CXNFVTV,          *NTO*X
          LUFVT=(CXNFVTL,CXNFVT1,CXNFVT2), *NTO*X
          PUFVT=CXNFVTP,           *NTO*X
          TYPE=NCP,                 *NTO*X
          VIRTUAL=YES               *NTO*X
L24NTO  LINE  LINECB=L240A0CB       *NTO*X
P24NTO  PU    PUCB=P240A0CB,        *NTO*X
          LUCB=(H240A0CB,H240A0CB,H240A0CB) *NTO*X
*****
*   VIRTUAL GROUP FOR NTO DISPLAYWRITER (SWITCHED 2741) *NTO*X
*****
G24NTO1 GROUP LNCTL=SDLC,           *NTO*X
          DIAL=YES,                 *NTO*X
          LINEFVT=CXNFVTV,          *NTO*X
          LUFVT=(CXNFVTL,CXNFVT1,CXNFVT2), *NTO*X
          MAXLU=1,                  *NTO*X
          PUFVT=CXNFVTP,           *NTO*X
          TYPE=NCP,                 *NTO*X
          VIRTUAL=YES               *NTO*X
L24NTO1 LINE  LINECB=L240A1CB       *NTO*X
P24NTO1 PU    PUCB=P240A1CB,        *NTO*X
          LUCB=(H240A1CB,H240A1CB,H240A1CB) *NTO*X
*****
*   GEN-END DELIMITER *
*****
          GENEND SCANCTL=(2,2),HSPDSEL=(00111111), X
          INIT=(CXNNINI),           *NTO*X
          INCHI=(CXNMINC),          *NTO*X
          INCINIT=(CXNMINCI),       *NTO*X
          ORDHI=(CXNMORD),          *NTO*X
          ORDINIT=(CXNMORDI),       *NTO*X
          SRCHI=(NT024)             *NTO*X
END

```

NTO MACRO DEFINITIONS

```
//JOB1      JOB  MSGCLASS=0,MSGLEVEL=(1,1),TIME=1440
//*****
//*          NTO RELEASE 2.0 GENERATION          *
//*****
//S1        EXEC PGM=CWAX00
//SYSLIB    DD DSN=NCP720.MAC3705,DISP=SHR
//SYSPUNCH DD DSN=NCP720.MAC3705(NT024),DISP=SHR
//SYSUT1    DD UNIT=SYSDA,SPACE=(CYL,(20)),DISP=(,DELETE)
//SYSUT2    DD UNIT=SYSDA,SPACE=(CYL,(20)),DISP=(,DELETE)
//SYSUT3    DD UNIT=SYSDA,SPACE=(CYL,(20)),DISP=(,DELETE)
//SYSPRINT DD SYSOUT=*
//SYSIN     DD *
NETOBLD    NAME=NT024,NAUCB=NT024CB
NETOLINE   NAME=L24NTO,SSLINE=L240A0,LINECB=L240A0CB,ID=010088888888
NETOPU     PUCB=P240A0CB,LUCB=H240A0CB
NETOLINE   NAME=L24NTO1,SSLINE=L240A1,LINECB=L240A1CB,ID=010000700001
NETOPU     PUCB=P240A1CB,LUCB=H240A1CB
NETOEND
END
/*
```


ACF/VTAM SWITCHED MAJOR NODE DEFINITIONS

The SWNT024 switched major node is given in the Switched SNA Definitions Chapter.

CICS DEFINITIONS

The NTO/CICS definitions are given in the SNA Application Interfaces Chapter.

REFERENCESVM/VCNA

VM/VCNA Installation, Operation and Terminal Use	SC27-0502
VM/VCNA Messages	SC27-0510

GENERAL CONSIDERATIONS

It is possible to do the VCNA installation in four steps:

1. VM definitions
2. VTAM definitions
3. VCNA definitions
4. VSE or MVS definitions

VM DEFINITIONS

To include VCNA support in the Virtual Service Machine(VSM) the following directory control statements must be taken into consideration:

IUCV

OPTION & MAXCONN

CONSOLE (optional)

The following is a VM VSM directory example:

```

USER WTCDOA  PASSWORD 16M 16M  G
ACCOUNT 0-00000A WTC-58
OPTION REALTIMER ECMODE BMX MAXCONN 15
IPL CMS
IUCV *CCS PRIORITY MSGLIMIT 15
GROUP WTCSYS
CONSOLE 01F 3215
SPOOL 00C 2540 READER A
SPOOL 00D 2540 PUNCH A
SPOOL 00E 1403 A
SPECIAL OFF TIMER
DEDICATE 05E 09F
MDISK 191 3330 189 002 VMWRK3 MR PASSWORD PASSWORD PASSWORD
MDISK 160 3330 404 404 CICS2 MW PASSWORD PASSWORD PASSWORD
MDISK 161 3330 404 404 WTCR30 MW PASSWORD PASSWORD PASSWORD
MDISK 162 3330 000 001 WTCDOS MW PASSWORD PASSWORD PASSWORD
MDISK 163 3330 001 807 WTCDOS MW PASSWORD PASSWORD PASSWORD

```

The VM/SP Planning and System Generation manuals have information on directory controls statements.

VTAM DEFINITIONS

APPL Definitions

```
*****
*                               VTAM VCNA MAJOR NODE                               *
*****
A12VCNA  VBUILD TYPE=APPL
VCNA12   APPL   ACBNAME=VMVCNACB,PRCTCT=password,AUTHEXIT=YES
```

Note: AUTHEXIT is for VS1 only.

Note: The ACBNAME and PRCTCT parameters must match the DTIGEN macro instruction APPLID and PASSWRD parameters. The default for PRCTCT is PRCTCT=VMVCNACB. See VCNA Definitions.

MODETAB Definitions

The majority of ISTINCLM entries (IBM standard modetable) have support for VCNA (Match your terminal type with the ISTINCLM device). See chapter 4 MODETAB OPERAND for a complete list. The MT3767 modetab has entries for VCNA 3767 TWX LU-1 and VCNA 3767 2741 LU-1. The MT6580 modetab has entries for VCNA DW TWX and VCNA DW 2741 via NTO/NCP.

USSTAB Definitions

The USGS, USSVSE and US3276 USS tables in chapter 4 have definitions for VCNA.

VCNA DEFINITIONS

DTIGEN Definitions

The DTIGEN generation is optional, all defaults can be used. The complete relation of parameters is in VCNA Installation manual.

The VSE JCL below is an example to customize the DTIGEN macro:

```
// JOB JOB1
// LIBDEF SL,SEARCH=VCNASL,FROM=VCNASL,TO=VCNASL
//   / ASSGN SYSPCH,TAPE
// OPTION DECK,LIST,XREF,NOEDECK
//   CATALR DTIUSER2
// EXEC ASSEMBLY
//   COPY DTIGEN
//   DTIGEN DTIUSER=2,trasize=1000,PASSWRD=ABCD1234
//   END
/*
// MTC WTM,SYSPCH
// MTC REW,SYSPCH
// RESET SYSPCH
// ASSGN SYSIPT,TAPE
// LIBDEF RL,SEARCH=VCNARL,FROM=VCNARL,TO=VCNARL
// EXEC MAINT
// RESET SYSIPT
// LIBDEF RL,SEARCH=VCNARL,FROM=VCNARL,TO=VCNARL
// LIBDEF CL,SEARCH=VCNA CL,FROM=VCNA CL,TO=VCNA CL
// OPTION CATAL
//   INCLUDE DTILINK0
// EXEC LNKEDT
/&
```

Were used all DTIGEN defaults in this system.

VSE DEFINITIONS

SUPVR Definitions

To include VCNA support in a VSE system the following supervisor options must be taken into consideration:

```
SUPVR      MODE=E
           NTASKS=n (including 3 for VM/VCNA)
           VM=YES
```

The following is a VSE SUPVR macro example:

```
SUPVR      ID=D,
           MICR=NO,
           MODE=E,
           NPARTS=12,
           NTASKS=208,
           VM=YES
```

VCNA Start JCL

```
* $$ JOB JNM=VCNA,DISP=L,CLASS=6
// JOB VCNA
* *****
* *
* * THIS JOB WILL BRING UP VM/VCNA AS A VTAM APPLICATION IN ITS *
* * OWN PARTITION. THE FIRST STEP IN THE JOB RUNS A PROGRAM *
* * WHICH CHECKS FOR THE PRESENCE OF VTAM AND, IF IT IS NOT YET *
* * UP, WAITS AND RETRIES AFTER 30 SECONDS. WHEN VTAM IS UP THE *
* * FIRST STEP COMPLETES AND VCNA WILL THEN START. *
* *
* *****
* *****
* LIBRARIES *
* *****
// DLBL VTAMV2,'VTM.E27.SYSCLB'
// EXTENT ,SYSWK1
// LIBDEF CL,SEARCH=(VTAMV2,USRCL1)
// EXEC CKVCNA
/*
* *****
* LIBRARIES *
* *****
// DLBL VTAMV2,'VTM.E27.SYSCLB'
// EXTENT ,SYSWK1
// LIBDEF CL,SEARCH=(VCNA,VTAMV2,USRCL1,PRDCLC)
// ASSGN SYSLST,00E
// ASSGN SYSPCH,00D
// EXEC DTIISTRT,SIZE=AUTO
/*
/&
* $$ EOJ
```

Note: The first step is optional.

VCNA CONNECTIONS

Only the connection/disconnection commands are given here.

VCNA LOGON

When the terminal is under VTAM you can connect to VCNA in the following two ways:

VCNA12/VCNA using the USSVSE table(Chapter 4)

LOGON APPLID(VMVCNACB)

VCNA LOGOFF

When the terminal is under CMS/CP you can disconnect from it with the CP DISCONNECT or CP LOGOFF commands. To logoff from VCNA you can enter:

VMEXIT while the VM/SP logo is on the screen.

More VCNA commands can be found in:

VM/VCNA Installation, Operation and Terminal Use SC27-0502

APPENDIX A: NAMING CONVENTIONS

Type of resource		Name						
Application program major node		Assv....						
Application program major node	CICS IMS NCCF TAF TSO	AssCICSv AssIMsv. AssNCFv. AssTAFv. AssTSOv.						
Application program minor node	CICS IMS NCCF TSO TAF	CICSssv. IMSSsv. NCFssv. TSOssv. TAFssv.						
CDRM major node		M00v....						
CDRM minor node	own domain other domain Applications e.g CICS	Mssv. Mxxv. RxxAv.. RxxACICS						
CDRSC major node consisting of:	logical units defined under a	<table border="1"> <tr> <td>NCP</td> <td>RxxNyyv</td> </tr> <tr> <td>-----</td> <td>-----</td> </tr> <tr> <td>LOCAL non-sna sna</td> <td>RxxHLv RxxHSv</td> </tr> </table>	NCP	RxxNyyv	-----	-----	LOCAL non-sna sna	RxxHLv RxxHSv
NCP	RxxNyyv							
-----	-----							
LOCAL non-sna sna	RxxHLv RxxHSv							
CDRSC minor node		Name of original definition statement						

Note: For the meaning of the symbols, refer to the end of this section.

NAMING CONVENTIONS
(cont.)

Type of resource		Name
Component		Cscliapt
Group		Gssg..
Line		Lsslia
Local Non-SNA	Major node Minor node	Hsslv... Hsslcuu
Local S N A	Major node Cluster Terminal	HssSv... HsscuaP HsscuaT
LU/Terminal	Terminals LOCADDR 1-35	Tssliapt
(Optional except for the following group of terminals)	or whatever is acceptable by the system support staff, the operations staff, or the end users.	
First LU or terminal specified to SSS for a PU or control UNIT	3631 3614 3650 3663 3790	FAscliap FCscliap QEscliap QDscliap INscliap
NCP major node		Nssuu..
Path	Major node	DssPATH.
	----- Minor node	no name
PU/Control Unit SDLC PU/Control Unit BSC		Psscliap Bsscliap*

Note: For the meaning of the symbols, refer to the end of this section.

EXAMPLES:

Type of resource		Name
NCP	subarea=14,cua=0bf, release=3,version=n	N14BF3N
.LINE	interface=020	L14020
..PU	polling addr=A(X'c1)	P14020A
...LU	local addr=1	T14020A1
LOCAL	host suba=11,cua=371	H11L371
NCCF	major node, suba=11	A11NCF
NCCF	host suba=11, TCAS	NCF11
.NCCF	Operator	NCF11001
TSO	major node, suba=11	A11TSO
TSO	host suba=11, TCAS	TSO11
.TSO	user address space	TSO11001
CDRM	major node	M00
CDRM	minor node,suba=11	M11
TAF	operator,suba=11	A11TAF
	Full screen,suba=11	TAF11F00
	Opcntl,suba=11	TAF11000

SYMBOLS:

Meaning of Symbols: Capital letters are constants, lower case are variables as described below.	
cuu = 3 char physical address of the connection for local devices and clusters.	t = LU sequence: A-Z/0-9
g = group sequence: A-Z/1-9	v = variations within the same suba definition (for example, lines originally active (A) or inactive (I))
lia = 3 char physical address of the connection for line internal attachment	xx = 2 char subarea number in other domain
p = PU sequence : A-Z/1-9	yy = 2 char adj. NCP subarea number
*P = CTRL address: x'40',A-Z	. = filler char
ss = 2 char subarea in this domain	

ACF/VTAM

SC27-0610
ACF/VTAM V2 Planning and Installation Reference

The purpose of this book is to enable management personnel and system programmers to understand planning requirements when preparing to install an ACF/VTAM V2 system. It describes how to define, tailor and maintain an ACF/VTAM V2 system. It includes information on the choice and specification of installation options and information on definition of devices and programs.

SC27-0611
ACF/VTAM V2 Programming

This manual contains information about how to write applications programs that contain ACF/VTAM V2 macro instructions and explains how to code those ACF/VTAM V2 macro instructions.

SC27-0612
ACF/VTAM V2 Operation

This manual contains information about commands used to run an ACF/VTAM V2 domain. It may be used as reference manual for domain operators as well as a guide for system programmers who provide detailed information needed to run the domain.

SC27-0614
ACF/VTAM V2 Messages and Codes

This manual contains messages and related codes. All information needed to interpret ACF/VTAM V2 messages is contained in this manual.

SC27-0630
ACF/VTAM V2 Diagnosis Guide (VSE)

SC27-0615
ACF/VTAM V2 Diagnosis Guide (OS/VS)

LY38-3058
ACF/VTAM V2 Diagnosis Reference (VSE)

LY38-3053
ACF/VTAM V2 Diagnosis Reference (OS/VS)

LY38-3059
ACF/VTAM V2 Data Areas (VSE)

LY38-3054
ACF/VTAM V2 Data Areas (OS/VS)

These manuals show the use of the diagnostic facilities available through ACF/VTAM V2. It provides a diagnostic approach to debugging ACF/VTAM V2, and contains guidelines and debugging aids to assist system and application programmers.

SX27-0027
ACF/VTAM V2 Reference Summary

This shows the use of the diagnostic facilities available through ACF/VTAM V2.

ACF/NCP

SC30-3178
ACF/NCP V2(+3725) Installation and Resource Definition

SC30-3168
ACF/NCP V2 Utilities

SC30-3169
ACF/NCP V2 Messages and Codes

SC30-3170
ACF/NCP V2 Customization

ZZ10-5006
3725 Communication Controller Installation Primer

G320-5854
ACF/NCP Tuning Considerations

G320-5860
Tuning and Problem Analysis for NCP BSC and Start-Stop devices

G320-5866
Tuning and Problem Analysis for NCP SDLC devices

CICS/VS

GC33-0132
CICS/VS 1.6 (VSE) Release Guide

SC33-0070
CICS/VS 1.6 (VSE) Installation and Operations Guide

GC33-0130
CICS/VS 1.6 (OS/VS) Release Guide

SC33-0071
CICS/VS 1.6 (OS/VS) Installation and Operations Guide

SC33-0149
CICS/VS 1.6 Resource Definition Guide

SC33-0131
CICS/VS 1.6 Customization Guide

SC33-0133
CICS/VS 1.6 Intercommunication Facilities Guide

NCCF

NCCF General Information	GC27-0429
NCCF Installation	SC27-0430
NCCF Messages	SC27-0431
NCCF Terminal Use	SC27-0432
NCCF Customization	SC27-0433
NCCF Logic	LY38-3010

NLDM

NLDM General Information	GC30-3081
NLDM Installation and Operation	SC30-3165
NLDM Diagnosis	SC30-3166
NLDM Licensed Program Specifications	GC30-9555

NPDA

Network Problem Determination Application Version 3

NPDA General Information	GC34-2111
NPDA Installation	SC34-2117
NPDA User's Guide	SC34-2112
NPDA User Reference	SC34-2114

NTD

GC38-0297
NTD General Information

SC28-0298
NTD Installation

G320-5887 NTD Installation and Problem Determination

G320-5901 TWX Terminal Installation and Problem Determination

POWER II

GG24-1570
VSE/POWER Version 2 Networking Design Guide

This guide contains many examples of the uses of PNET alone and with FTP, to communicate VSE to VSE and MVS to VSE. Differences to JEP are described and comparisons to other products such as CDNDT are made.

TARA

IBM 3600 Threshold Analysis and Remote Access
Feature Installation and Customization SC34-2041-1

IBM 3600 Threshold Analysis and Remote Access
Feature General Information GC34-2055

IBM 3600 Threshold Analysis and Remote Access
Feature User's Guide SC34-2056

VM/VCNA

VM/VCNA Installation, Operation and Terminal Use SC27-0502

VM/VCNA Messages SC27-0510

INSTALLATION SUPPORT

GG24-1547
Advanced Communications
Function Primer

This document provides overviews of many of the SNA products and expands on the examples in the ACF Product Installation Guide (GG24-1557).

GG24-1509
SNA Product Installation Guide/
ACF/VTAM Release 2

The purpose of this guide is to provide information that may help in installing SNA products on either a DOS/VSE or OS/VS operating system using MVS. This guide supports ACF/VTAM V1R2 and ACF/NCP V1.R2 and V1R3.1.2 and 1.3. The samples in this guide will support the following products: IMS/VS, CICS/VS, TSO, JES2(MVS), ACF/VTAM, ACF/NCP/VS, NCCF, and NPDA.

GG24-1519
Small Communications Systems
Installation Primer
IBM 4331/ACF/VTAME

This publication contains basic information needed to assist the user in adding the telecommunications capability to an IBM 4331 DOS/VSE System. It is specifically directed to the installation of IBM 3270, ACF/VTAME, and CICS/VS systems.

GG24-1573
Small Communications Systems
Installation Primer
IBM 4331/ACF/VTAM Version 2

This publication contains basic information needed to assist the user in adding the telecommunications capability to an IBM 4331 DOS/VSE System. It is specifically directed to the installation of IBM 3270, ACF/VTAM Version 2 and CICS/VS systems.

GG24-1552
Small Communications Systems
Installation Primer
VSE System IPO/E & IBM 3705-80

The purpose of this guide is to assist the user in the installation of a telecommunications system based on

- IBM Systems Network Architecture (SNA)
- An IBM 4300 Processor
- VSE System IPO/Extended
- CICS/VS
- An IBM 3705-80 Communication Controller
- IBM 3270 Information Display System

NETWORK MANAGEMENT

GG24-1539
Communication Network Management/
Managing Interconnected Systems

This document summarizes the results of a project in which central site management of distributed processing systems were examined. Situations were examined that included either a OS/MVS system or a DSO/VSE system as central host. The requirements for controlling these situations from a central site fell broadly into three areas: Network Operation, Program Maintenance and Batch Data Transfer, and Problem Determination.

GG24-1540
Communication Network Management/
NCCF Terminal Access Feature

This document contains an overview of the Terminal Access Facility of NCCF. The document was produced as a by-product of early tests of the product and provides useful scenarios on how the product can be used.

GG24-1546
Communication Network Management/
Using Information/Management

The intent of this paper is to ease the initial use of some functions of Information/Management (INFO/MGMT) and its interface to NPDA. It presents examples on defining a network containing multiple systems.

GG24-1554
Communication Network Management/
Customizing NCCF

This document is intended to supplement the NCCF Customization Manual (SC27-0433) with further hints, comments and examples on writing CLISTS, Command Processors and User Exits for NCCF. It should be read in conjunction with the NCCF Customization Manual.

GG24-1558
Communication Network Management/
Central Site Operation

This paper describes the specialties of central operation and how they are managed by means of Communications Network Management products. It further shows samples of command lists, procedures, routines, etc. as a help to introduce the concept of centralized network and system operation in a system.

GG24-1561
Communication Network Management/
Using the CNM-TOOLS

This paper discusses what the different network management products can do for the help desk and the operator when they face a problem. Well known problem areas are analyzed and the use of the tools to treat the problems are discussed. It also discusses the benefits of online operator support material.

GG22-9286

4331 Distributed Data Processing Network Implementation

This guide uses a live MVS host with distributed 4331 subhosts network as an example of remote maintenance. It is very comprehensive, dealing with all aspects of implementation and maintenance encountered during the installation of the system.

PROBLEM DETERMINATION

GG24-1514-1

SNA Problem Determination Guide/
ACF R3 Volume 1

This paper is part of a two-volume series dealing with system problem determination in a ACF/VTAM environment. It discusses and illustrates problem determination techniques and tools.

GG24-1523-1

SNA Problem Determination Guide/
ACF R3 Volume 2

Note: Automatic Distribution of System Center Bulletins. In order to provide automatic distribution of the communication based system center bulletins to customers, a special procedure has been established using System Library Subscription Service (SLSS). To receive bulletins of interest automatically when they are released, the following bill of form number should be added to the customer SLSS subscription : GBOF-2206.

Special Characters

USSTAB Operand 13

A

ACB 12
 ACF/NCP
 BNNSUP Operand 16
 ACF/VTAM
 Mode and USS table
 location. 15
 Session Parameters 13
 ACTPU 11
 ADDRESS 198
 ANS 11
 APP
 VTAM definition. 127
 VTAM APPL definitions 128
 APPLICATION DEFINITION 127
 VTAM APPL definitions 127
 ATCCON11 126
 ATCSTRXX 7, 8
 ATCSTR00 125
 ATCSTR11 126
 AUTODUMP 11
 AUTOIPL 11

B

BATCH 198
 BFRPAD 7, 8, 147
 in host macro 149
 BFRS 7, 8, 147, 198
 in build macro 148
 BNJZVTBL 281, 291, 299
 DATA SERVICES TASK
 definition 282, 292
 BNNSUP 17
 BNNSUP operand 16
 BSC
 Performance 196
 BUILD Exceptions DOS/VSE 149
 BUILD macro 7, 8, 11, 148, 172,
 210
 DR3270 210
 in dynamic reconfiguration 209
 RESOEXT 210

C

CDN
 VTAM definition. 128
 VTAM APPL definitions 128
 CDRM
 VTAM definition. 135
 VTAM CDRSC definitions 135
 CDRSC
 VTAM definition. 135, 136

VTAM CDRSC definitions 135,
 136
 channel attn delay
 in build macro 148
 CICS
 VTAM definition. 128
 PROCESSING PROGRAM TABLE 317
 PROGRAM CONTROL TABLE 315
 TERMINAL CONTROL TABLE
 CROSS DOMAIN (to local terms
 on different host) 321
 CROSS DOMAIN (to remotes on
 different host) 321
 DPPX LU-0 APPL-APPL 321
 for NTO 320
 for S/1 320
 for TAF 320
 for 5520 319
 INITIAL 318
 INTERSYSTEM COMMUNICATION
 Parallel Session 321
 INTERSYSTEM for DIF
 product 323
 MVS System Console as
 Terminal 318
 VSE System Console as
 Terminal 318
 VTAM local terminals 319
 VTAM remote 3277(BSC) 319
 VTAM APPL definitions 128
 CLUSTER MACRO
 CLUSTER 153, 154, 176, 177
 TERMINAL 153, 154, 176, 177
 CONFIGURABLE LINK STATION
 DEFINITION 151, 174
 SDLCST MACRO 151, 174
 CONFIGURATION 11
 COSTAB
 Installation MVS 137
 CPGEN
 timeout value 11
 3600 11
 CSB MACRO 173
 CTCA
 CHANNEL TO CHANNEL
 Definitions 237
 MVS definition 238
 SA01 PATH 238
 SA11 PATH definition 237
 VTAM VBUILD definitions 237
 CUTOFF 204
 CWALL
 in build macro 148

D

DATMODE 199
 DELETE statement 208
 FROM operand 208
 DISPLAYWRITER
 LU macro 191
 PU macro 191
 SWITCHED SNA DEFINITIONS 230
 DISPLAYWRITERS 122
 JES2 122
 DLOGMOD 15, 17
 Documentation
 ACF/NCP 145

Complementary Guides 1
 CTC 237
 DOS/VSE 65
 Dynamic Reconfiguration 209
 Local Devices 233
 MSNF 239
 MVS 103
 NCCF 247
 NLDM 303
 NPDA 277
 NPDA Programming
 Considerations 277
 NTO 343
 TAF 335
 TARA 297
 DOS/VSE 65
 Moving ACF/NCP Load Module 85
 ACF/NCP Stage 2 Generation
 JCL 84
 ACF/NCP Stage 3 Generation
 JCL 85
 ACF/VTAM and CICS/VS Terminals
 Definitions 100
 ACF/VTAM Start Procedure 88
 ACF/VTAM termination 97
 Automatic System
 Initialization 98
 CICS/VS Definitions 99
 CICS/VS Tables Definitions 99
 CICS/VS Test 100
 DOS/VSE ACF/VTAM Network Defi-
 nitions JCL 72
 DOS/VSE ASI JCL Procedure 66
 DOS/VSE CICS/VS sample JCL for
 tables catalog 100
 DOS/VSE COSTAB 81
 DOS/VSE MODETAB 82
 DOS/VSE USSTAB 81
 Dumping a 3705 86, 87
 I/O Device and IPL
 Procedure 65
 Initial test with the IBMTEST
 command 96
 Installing 3705 Initial
 Tests 83
 Logging off from CICS/VS 101
 NCCF/NPDA Start Procedure 92
 OCCF Start Procedure 90
 POWER V2 NETWORKING
 DEFINITION 71
 Printing a 3705 Dump 86, 87
 Printing ACF/VTAM Trace 94
 Starting and Printing ACF/VTAM
 Trace 95
 VCNA 351
 VCNA Start Procedure 94
 DPCX
 VTAM definition. 128
 Modetab 8100 39
 VTAM APPL definitions 128
 DPPX
 CICS LU-0 APPL-APPL 321
 IMS/VS (3270
 compatibility) 330
 Modetab 8100 35
 SLUTYPEP for DPPX 331
 DSABLTO 199
 DSILGMOD 15
 DTIGEN definitions 350
 DUPLEX 200
 DYNAMIC RECONFIGURATION

effect on network
 addresses 210
 NCP coding reference 210
 activation/deactivation of a
 resource 209
 ADD statement 207
 DELETE statement 207, 209
 DRDS data set 207
 FNA command 209
 in NCP 209
 Limitations 207
 NCP macros for DR
 BUILD MACRO 209
 LINE MACRO 210
 LU MACRO 210
 LUDRPOOL MACRO 210
 MAXLIST operand 210
 PU MACRO 210
 PUDRPOOL MACRO 209
 SERVICE MACRO 210
 overview 209
 POOL SPACE 150, 173
 RNAA command 209
 Set control vector 209
 Summary 215
 Tracing DR resources 207
 DYNAMIC RECONFIGURATION EXAMPLES
 DELETE and ADD 3274 215
 DELETE and ADD 3276 215
 DELETE and ADD 5520 216
 DELETE and ADD 8100 216

E

ENABLTO 200
 ERROR RECOVERY
 REPLYTO 9
 DEVICE RECOVERY 9
 LINE MACRO 9
 PU MACRO 9
 RETRIES 9
 retry cycle time 9
 SEQUENCE REQUIREMENT 9
 Series/1 9
 3271 9
 3274 9
 3275 9
 3276 9
 3600 9
 3767 9
 3770 9
 3790 9
 4331 9
 8100 9

G

GENERAL HINTS 11
 GROUP MACRO
 SDLC LINES 155, 180, 189
 SDLC local to local links 165,
 178
 VIRTUAL GROUP FOR NPA 154, 177
 3270 remote leased line 151,
 174

H

HDXSP 200
 HOST macro 7, 8, 12, 149, 173
 HOSTSA 7, 8

I

IMS
 VTAM definition. 128
 VTAM APPL definitions 129
 IMS/VS
 VTAM NETWORK DEFINITION
 Local 3277 328
 CICS/VS
 IMS LU TYPE 6 332
 IMS GENERATION
 APPLS and TXs 326
 DL/I DATABASE 325
 NCCF/TAF 330
 SLU for DPPX 331
 TAF SLUTYPE1 329
 BUFPOOLS MACRO 325
 DATABASE MACRO 325
 DPPX/3270 Compatibility 330
 IMS/VS Local 3286 328
 IMSCTF MACRO 324
 IMSCTRL MACRO 324
 MSGEN Macro 333
 LU TYPE 6 332
 PSB 325
 Remote 3277 329
 Remote 3277 (BSC) 329
 Remote 3286 (BSC) 329
 Remote 3286 (SDLC) 329
 Remote 3767 329
 SDLC 3276 330
 SDLC 3278-3 330
 SLUTYPE 2 3279 simulated in
 S/1 331
 SLUTYPEP for S/1 331
 SLUTYPE1 for SERIES 1 331
 SNA 3274-1A channel
 attached 329
 SPAREA MACRO 324
 VTAM NETWORK DEFINITION 328
 VTAM SUBPOOL DEFINITION 332
 IMS GENERATION EXAMPLE
 MSGQUEUE MACRO 325
 INSTALLATION SEQUENCE 10
 INTENSIVE MODE RECORDING 11
 INTERSYSTEM COMMUNICATION
 CICS Definition 321
 DIF product 323
 DPCX 323
 TERMINAL CONTROL TABLE
 INTERSYSTEM for DIF
 product 324
 IOBUF 7, 10
 IPL KEY 3705 12
 IRETRY 201
 ISTATUS
 comp 11
 inactive 11
 ISTINCLM 14, 17
 ISTMGC00
 CNM Routing CSECT (NLDM) 311
 CNM Routing CSECT (NPDA) 284,
 294
 CNM Routing CSECT (TARA) 299

J

JES2 122, 125
 DISPLAYWRITERS 122
 INSTALLATION 117
 PARAMETERS 117
 6580 122
 6670 125

L

LFBUF 8, 10
 LINE MACRO
 ICA 194
 in dynamic reconfiguration 210
 local to local links 165, 166,
 167, 168, 169, 170, 178, 179
 SDLC LINK 155, 156, 157, 161,
 162, 163, 180, 185, 187, 189
 3270 BSC 152
 3271 BSC 153, 175
 LINE TRACE
 use of 11
 LOCAL
 VTAM definition. 132, 134
 VTAM CDRM definitions 135
 VTAM LOCAL definitions 134
 LOCAL DEVICE DEFINITION 11
 LOCAL DEVICE DEFINITIONS
 3270 (Non SNA) 236
 3274-1A (SNA) 235
 LOGAPPL 11
 LOGMODE 15
 LOGON 15
 LOGTAB 11
 LU 208
 adding by dynamic
 reconfiguration 208
 deletion by dynamic
 reconfiguration 208
 LUDRPOOL MACRO
 for type 1 PU 210
 for type 2 PU 210
 LU MACRO
 for DISPLAYWRITER 191
 for SCANMASTER 191, 193
 for 3276 157, 161, 183
 for 4700 164, 184
 for 6580 191
 for 6670 164, 184, 188
 for 8100 159, 160, 181, 182,
 188, 190
 for 8815 191, 193
 in dynamic reconfiguration 210
 LUDRPOOL MACRO 150
 in dynamic reconfiguration 210

M

MAXBFRU 7, 8, 10, 147
 in host macro 149
 Local device
 considerations 234
 MAXDATA 7, 8, 147
 in pccu macro 147
 MAXDATA VALUES IN PU
 Series/1 8
 3271 8
 3274 8
 3275 8
 3276 8
 3600 8
 3614 8
 3650 8
 3767 8
 3774 8
 3775 8
 3776 8
 3777 8
 8100 dpcx 8
 8100 dppx 8
 MAXLU operand 210
 MAXOUT 201
 MAXPU operand 210
 MAXSUBA 7, 8, 10
 MODETAB 14, 15, 16, 17
 Installation OS 137
 S3270 15
 VCNA 350
 MODETAB EXAMPLES
 DPCX 39
 DPPX 35
 LUTYPE1 Modetab 21
 NCCF 26
 Modetab 26
 NJE 22
 NTO 26, 34
 PARS 25
 PC 42
 POWER 26, 39
 RJE 22
 S/1 18
 S/34 18
 S/36 19
 TAF Full-Screen 22
 VCNA 34
 3274 1A mod.2 28
 3274 1A mod.3 29
 3276 mod.2 display 30
 3276 mod.3 display 30
 3278
 local 26
 remote 26
 3278 mod.2 display 30
 3278 mod.3 display 30
 3279 27, 28, 29
 3287 printer 31
 3287-2C 29, 30
 3289 printer 31
 3650 31
 3767 32
 4700 33
 5280 18, 19, 42
 5520 33
 6580 34
 6670 34
 8100 35, 39, 40, 41, 42
 MODETAB with COS entries
 Modetab 17
 MVS

JES2 INSTALLATION 117
 JES2 PARAMETER DEFINITIONS 117
 NJE PARAMETERS 117
 START PARAMETER DEFINITION 126
 SYSTEM GENERATION EXAMPLE 103
 SYSTEM PARAMETER
 DEFINITIONS 112
 VTAM APPLICATION
 DEFINITION 127
 VTAM CONFIGURATION
 DEFINITION 126
 VTAM START DEFINITION 125

N

NCCF 15
 VTAM definition. 129
 Documentation 247
 Multiple domain
 considerations 250
 Operational considerations 249
 Specific profile
 considerations 251
 User CLIST considerations 251
 VTAM APPL definitions 129, 130
 NCCF flow (overview) 273
 NCCF INSTALLATION
 Documentation 247
 Installation steps 248
 Pre-planning 247
 SPAN parameter 247
 Testing
 notes on 248
 NCCF INSTALLATION EXAMPLES
 Cross domain Logmode 273
 Disk log print procedure 272
 DSICMD 256
 DSIDMN 255
 DSILOGBK 264
 DSIOPF 252
 DSISPN 255
 Log data set allocation 271
 MVS procedure example 272
 NCCF APPL statements 270
 TAF APPL Statements 341
 TAF/NCCF Command
 definitions 335
 User command lists 264
 ACT CLIST 264
 BFRS CLIST 265
 BFRUSE CLIST 265
 CLSTRS CLIST 265
 DROUTE CLIST 266
 HELPBFRU CLIST 268
 INACT CLIST 267
 IST077I CLIST 268
 IST097I CLIST 268
 IST679A CLIST 269
 TUCLIBFR CLIST 269
 USS Table 270
 VSAM data set definition 271
 3277 Mode table 270
 NCP 10
 already active 11
 Definition example MVS 139
 Dump and Print example MVS 140
 dynamic reconfiguration
 coding reference 210
 effect on network
 addresses 210
 Load example MVS 140
 loader utility 11

Macros which support Dynamic
 Reconfiguration 209
 MISCELLANEOUS 194
 MVS dependencies 7
 Performance 196
 Sample Generation 146, 171
 subarea operand in host 11
 VSE dependencies 8
 NEGPOLP 204
 NJE 117
 Modetab 22
 NLDM
 CNM Routing CSECT 311
 NLDM INSTALLATION
 APPL definition 312
 CNM Routing CSECT 311
 Documentation 303
 ISTRACON 313
 LOG file REPRO 313
 MVS PROCEDURE 312
 NCCF Considerations 309
 NCCF requirements 306, 307
 DATA SERVICES TASK
 (AAUPRMLP) 308
 DATA SERVICES TASK
 (DSIPRMLU) 308
 DATA SERVICES TASK
 (NLDMBDST) 307
 DSICMD command list 308
 DSIDMN 306, 307
 NLDM Database creation 304
 NLDM Programming
 Requirements 303
 NPA
 BSC Cluster 153
 BSC Line 152
 Build parameter 148
 Required 3705 model 148
 VIRTUAL GROUP 154, 177
 NPDA 11
 NPDA INSTALLATION EXAMPLES
 APPL definition
 (BNJDSERV) 283, 293
 CNM Routing CSECT
 (ISTMGC00) 284, 294
 DSICMD command list 279, 290
 ISTMGC00 CSECT EXAMPLE 284,
 294
 LOG file EXPORT to tape 287
 LOG file IMPORT to tape 287,
 296
 LOG file REPRO to tape 295
 MVS JCL Example 286
 NCCF requirements 279, 290
 NPDA Data Base Allocation 278
 NPDA Data Base Comments 288
 NPDA Database Allocation 289
 NPDA Database Comments 277
 NPDA VERB TABLE
 (BNJZVTBL) 281, 291
 VSE JCL Example 295
 NRZI 11
 NTO 150
 CICS TWX 320
 Considerations 343
 MODETAB 26, 34
 Sample Definitions 347, 348
 Sample Generation 344
 SWITCHED LUs 150
 SWITCHED SNA DEFINITIONS 221

O

OAF 11
 OCCF
 MVS/OCCF IEFSSNxx def. 115
 OPERATING SYSTEM 10
 ORDER 201

P

PARS
 Modetab 25
 PASSLIM 201
 PATH
 VTAM definition. 131
 SPECIFICATIONS IN NCP 150, 173
 VTAM LOCAL definitions 132
 PAUSE 202, 204
 PC
 Modetab 42
 Switched 222
 PCCU macro 7, 8, 11, 171
 PCCU MACRO DQS/VSE 147
 PCCU MACRO MVS 147
 PHYSICAL CONFIGURATION 10
 PIU
 LARGEST IN NCP 147
 MAX INTO HOST 147
 POLIMIT 205
 POWER
 APPL Definition 72, 75
 Definition 72
 JCL 70
 MODETAB 26, 39
 PNODE Definition 72
 Promoted operands 208
 PU 208
 adding by dynamic
 reconfiguration 208
 deletion by dynamic
 reconfiguration 208
 PU MACRO
 for adjacent ICA 194
 for adjacent sub area 37X5 179
 for adjacent sub area
 3705 165, 166, 167, 168, 169,
 170
 for adjacent sub area
 3725 178, 180
 for DISPLAYWRITER 191
 for S/34 156, 163
 for SCANMASTER 191, 193
 for 3274 186
 for 3275 192
 for 3276 157, 161, 183, 185,
 192
 for 3600 188
 for 3650 195
 for 3767 194
 for 3775 194
 for 4700 164, 184
 for 6580 191
 for 6670 164, 184, 188
 for 8100 158, 159, 181, 182,
 187, 189
 for 8815 191, 193
 in dynamic reconfiguration 210
 PU type 2 14
 USSTAB 14
 PUDRPOOL MACRO 150

in dynamic reconfiguration 209

R

RETAIN 11
RETRIES 202
RJE
Modetab 22

S

S/1 331
CICS LUTYPE2 320
IMS/VS SLUTYPE 1 331
IMS/VS SLUTYPE 2 (3279
simulated) 331
IMS/VS SLUTYPE 331
Modetab 18
USSTAB 45
S/34
Modetab 18
PU/LU specification 156, 163
USSTAB 45
S/36
Modetab 19
SCANMASTER
LU macro 191, 193
PU macro 191, 193
SWITCHED SNA DEFINITIONS 231
SDLC
Performance 196
SDLCST MACRO 151, 174
primary links 151, 174
secondary links 151, 174
SERVICE MACRO
for SDLC LINE 155, 157, 158,
161, 162, 164, 180, 185, 187,
189
MAXLIST operand 210
3270 remote 152, 154, 175
SERVLIM 202, 205
SERVPRI 205
SESSION 205
Session Parameters
BNNSUP 13
COSTAB 13
DLOGMOD 13
ISTINCDT 13
MODETAB 13
SSCPFM 13
USSTAB 13
SESSION TERMINATION 11
SLOWPT 7, 8, 126
SNA 3270 15
SSCPFM 17
operands
FSS 16
USSSCS 16
USS3270 16
STATMOD 7, 8
SUBAREA 8, 11, 12
SUBAREA ncp 7
SWITCHED 193
SWITCHED LUs 150
NTO 150
SWITCHED SNA DEFINITIONS 217
DISPLAYWRITER 230
DPCX 219
LINE GROUP specifications 219

NTO 221
PC 222
S/1 223
S/34 224
SCANMASTER 231
3276 226
3650 227
4700 228
5520 229
6580 230
8100 230
8815 231
SYSCNTRL MACRO 149, 172
SYSTEM DEFINITION 10

T

TAF
VTAM definition. 130
CICS LUTYPE2 320
CICS 3767 320
Documentation 335
Full-Screen Modetab 22
IMS LU2 330
IMS/VS SLUTYPE1 329
LUTYPE1 Modetab 21
Sample Definitions 341
TAF APPL statements 341
TAF/NCCF command
definitions 335
VTAM APPL definitions 131
TAF INSTALLATION
Documentation 335
Pre-planning 335
TAF INSTALLATION EXAMPLES
DSICMD 335
MODETAB1 Mode table 341
MTLUTY2 Mode table 341
User command lists 337
BGTAFLIST 337
TAF CLIST 338, 339, 340
TARA INSTALLATION EXAMPLES
APPL definition 300
DATA SERVICES TASK
definition 298
DSICMD command list 300
LOG file REPRO 301
MVS PROCEDURE Example 301
NCCF requirements 298
NPDA VERB TABLE 299
TARA LOG file creation 297
TRACE
in build macro 148
TRANSFR 7, 8, 147, 203
TSO
VTAM definition. 131
VTAM PATH definitions 131

U

UNITSZ 7, 8, 10, 147
in host macro 149
3274-1a considerations 233
USSSCS 17
USSTAB 16, 17
Installation MVS 137
VCNA 350
3270 15
3271 15

3272 15
 3274 15
 3275 15
 3276 15
 3277 15
 8100 restriction 17
 USSTAB EXAMPLES
 S/1 45
 S/34 45
 3274 SNA 55
 3276 SNA 55
 3767 60
 3770 60
 4700 63
 5280 45
 USSTAB EXAMPLES
 USSVSE 46
 3271 mod 1/2 bsc 50
 3271 mod 11/12 sdlc 50
 3272 local non-sna 50
 3274 1B non-sna 50
 USS3270 17

V

V NET
 FORCE 12
 TERM 12
 VBUILD MACRO
 ADD statement 208
 DELETE statement 208
 DRDS 208
 in dynamic reconfiguration 208
 TO operand 208
 VCNA
 APPL definitions 349
 DOS/VSE definitions 351
 DTIGEN definitions 350
 MODETAB 32, 34
 MODETAB definitions 350
 SUPVR definitions 351
 USSTAB Definitions 350
 VCNA JCL 351
 VCNA LOGON/LOGOFF 351
 VM definitions 349
 VCNA DEFINITIONS 349
 VFYLM 11
 VTAM
 CONFIGURATION DEFINITION 126
 APPLICATION DEFINITION 127
 CTCA
 CHANNEL TO CHANNEL
 Definitions 237
 MVS dependencies 7
 Performance 196
 Trace start and stop example
 MVS 144
 VBUILD for dynamic
 reconfiguration 208
 VSE dependencies 8

X

XMITLIM 205
 XPANNO 126
 XPANPT 7, 8, 126

3

3270 17
 BSC 17
 CICS/VS BSC 319
 CICS/VS Local 319
 IMS definition 329
 keys
 clear 11
 PA 11
 PF 11
 LOCAL 17
 Modetab (NON-SNA) 26
 SDLC 17
 SNA 17
 3272 (Non SNA) definition 236
 3271 17
 BNNSUP Operand 16
 Dynamic Reconfiguration 215
 USSTAB 14
 3272 17
 3274 17
 Modetab 28, 29
 PU/LU specification 186
 USSTAB 14, 55
 3274-1A 11
 IMS definition 329
 3274-1A Local device
 definitions 235, 236
 3274-1A VTAM coding
 considerations 233
 3275 17
 PU specification 192
 USSTAB 14
 3276 17
 CICS/VS 319
 Dynamic Reconfiguration 215
 IMS definition 330
 Modetab 30
 Modetab mod.3 display 30
 PU specification 192
 PU/LU specification 157, 161,
 183, 185
 USSTAB 14, 55
 3277
 VTAM NETWORK DEFINITION
 Local 3286 328
 CICS/VS BSC 319
 CICS/VS Local 319
 IMS definition 329
 IMS definition (BSC
 Remote) 329
 IMS Local 3277 328
 SSCPFM 16
 TERMINAL CONTROL TABLE
 VTAM local terminals 319
 USSTAB 14
 3278
 IMS definition (Model 3) 330
 Modetab 30
 Modetab mod.3 display 30
 3279
 MODETAB 27, 28, 29
 3286
 IMS definition (BSC) 329
 IMS definition (Remote) 329
 3287
 MODETAB 31
 3287-2C
 MODETAB 29, 30
 3289
 MODETAB 31
 3600 17

CLEAR 11
 CPGEN 11
 PU macro 188
 timeout value 11
 UNBIND 11
 3650
 MODETAB 31
 PU/LU specification 195
 3767 17
 IMS/VS Remote 3767 329
 MODETAB 32
 PU/LU specification 194
 USSTAB 60
 3770 17
 USSTAB 60
 3775
 PU/LU specification 194

4

4700
 LU macro 164, 184
 MODETAB 33
 PU macro 164, 184
 SWITCHED SNA DEFINITIONS 228
 USSTAB 63

5

5280
 Modetab 18, 19, 42
 USSTAB 45
 5520
 CICS LUTYPE2 319
 Dynamic Reconfiguration 216

MODETAB 33
 SWITCHED SNA DEFINITIONS 229

6

6580 122
 JES2 122
 LU macro 191
 MODETAB 34
 PU macro 191
 SWITCHED SNA DEFINITIONS 230
 6670 125
 JES2 125
 LU macro 164, 184, 188
 MODETAB 34
 PU macro 164, 184, 188

8

8100 17
 IMS APPL Definition 326
 LU specification 159, 160,
 181, 182, 188, 190
 Modetab 40, 41, 42
 Modetab DPPX 35
 MTDPCX 39
 PU specification 158, 159,
 181, 182, 187, 189
 8100 DPCX
 Dynamic Reconfiguration 216
 8815
 LU macro 191, 193
 PU macro 191, 193
 SWITCHED SNA DEFINITIONS 231

GG24-1557-1
ADVANCED COMMUNICATIONS FUNCTION
PRODUCTS INSTALLATION GUIDE

READER'S
COMMENT
FORM

You may use this form to communicate your comments about this publication, its organization, or subject matter, with the understanding that IBM may use or distribute whatever information you supply in any way it believes appropriate without incurring any obligation to you.

Your comments will be sent to the author's department for whatever review and action, if any, is deemed appropriate. Comments may be written in your own language; use of English is not required.

Note: *Copies of IBM publications are not stocked at the location to which this form is addressed. Please direct any requests for copies of publications, or for assistance in using your IBM system, to your IBM representative or to the IBM branch office serving your locality.*

Possible topics for comment are:

Clarity Accuracy Completeness Organization Coding Retrieval Legibility

If you wish a reply, give your name, company, mailing address, and date:

Note: Staples can cause problems with automated mail sorting equipment.
Please use pressure sensitive or other gummed tape to seal this form.

What is your occupation? _____

Number of latest Newsletter associated with this publication: _____

Thank you for your cooperation.

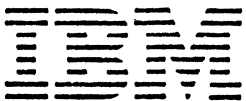
Reader's Comment Form

Cut or Fold Along Line

Fold

Raleigh International Systems Center
Department 985 / H594
Building 622-3
P.O. Box 12195
Research Triangle Park
Raleigh, North Carolina 27709
U.S.A.

Fold



GG24-1557-1
ADVANCED COMMUNICATIONS FUNCTION
PRODUCTS INSTALLATION GUIDE

READER'S
COMMENT
FORM

You may use this form to communicate your comments about this publication, its organization, or subject matter, with the understanding that IBM may use or distribute whatever information you supply in any way it believes appropriate without incurring any obligation to you.

Your comments will be sent to the author's department for whatever review and action, if any, is deemed appropriate. Comments may be written in your own language; use of English is not required.

Note: Copies of IBM publications are not stocked at the location to which this form is addressed. Please direct any requests for copies of publications, or for assistance in using your IBM system, to your IBM representative or to the IBM branch office serving your locality.

Possible topics for comment are:

Clarity Accuracy Completeness Organization Coding Retrieval Legibility

If you wish a reply, give your name, company, mailing address, and date:

Note: Staples can cause problems with automated mail sorting equipment.
Please use pressure sensitive or other gummed tape to seal this form.

What is your occupation? _____

Number of latest Newsletter associated with this publication: _____

Thank you for your cooperation.

Reader's Comment Form

Cut or Fold Along Line

Fold

Raleigh International Systems Center
Department 985 / H594
Building 622-3
P.O. Box 12195
Research Triangle Park
Raleigh, North Carolina 27709
U.S.A.

Fold



GG24-1557-1

ADVANCED COMMUNICATIONS FUNCTION
PRODUCTS INSTALLATION GUIDE

GG24-1557-1

PRINTED IN THE U.S.A.

IBM[®]