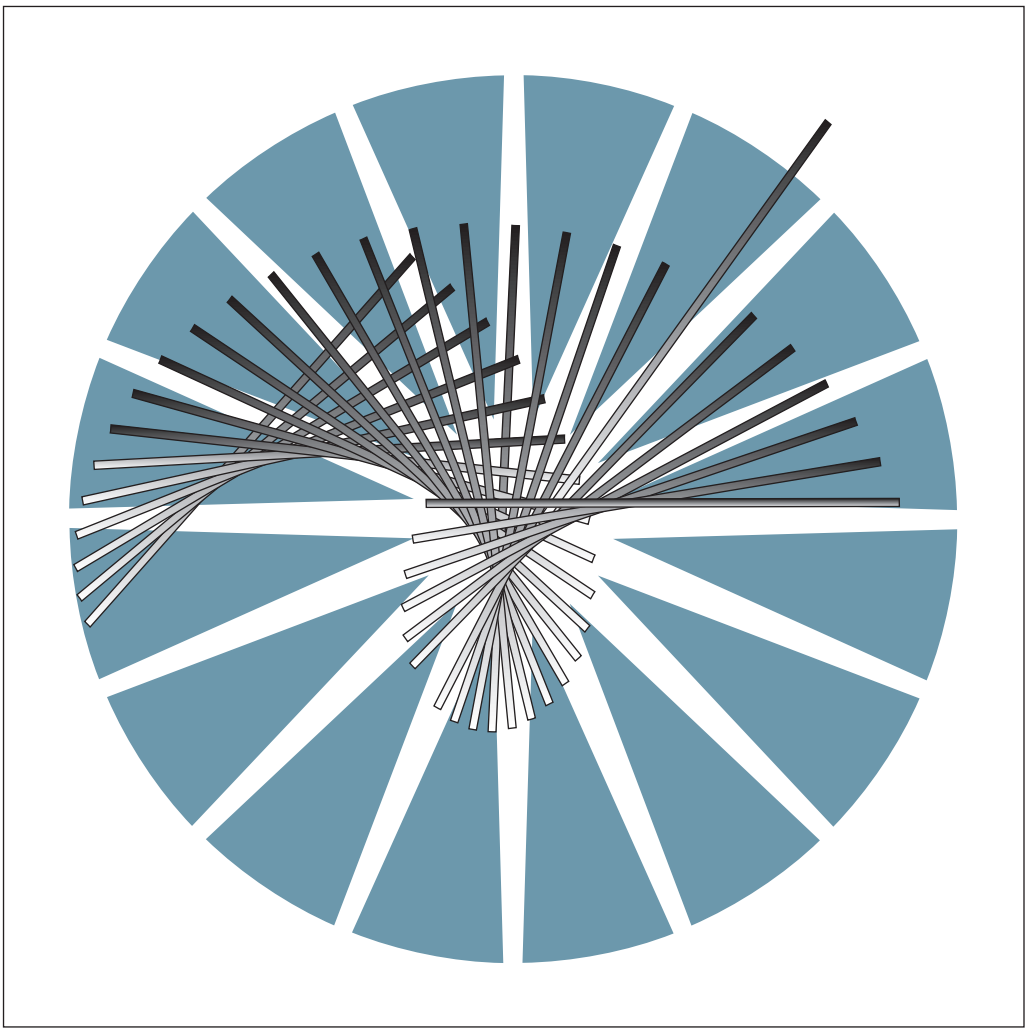
3745 Communication Controller Models A
3746 Nways Multiprotocol Controller
Models 900 and 950

IBM

Planning Series:

CCM Planning Worksheets



3745 Communication Controller Models A
3746 Nways Multiprotocol Controller
Models 900 and 950

Planning Series:

CCM Planning Worksheets

Note!

Before using this information and the product it supports, be sure to read the general information under “Notices” on page vii.

First Edition (December 1997)

This edition applies to the 3745 Communication Controller Models A and 3746 Nways Multiprotocol Controller Models 900 and 950.

Order publications through your IBM representative or the IBM branch office serving your locality. Publications are not stocked at the address given below.

A form for readers’ comments appears at the back of this publication. If the form has been removed, address your comments to:

Department CGFA
Design & Information Development
IBM Corporation
PO Box 12195
Research Triangle Park NC 27709
U.S.A.

When you send information to IBM, you grant IBM a nonexclusive right to use or distribute the information in any way it believes appropriate without incurring any obligation to you.

Contents

Notices

References in this publication to IBM products, programs, or services do not imply that IBM intends to make these available in all countries in which IBM operates. Any reference to an IBM product, program, or service is not intended to state or imply that only IBM's product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any of IBM's intellectual property rights may be used instead of the IBM product, program, or service. Evaluation and verification of operation in conjunction with other products, except those expressly designated by IBM, are the user's responsibility.

IBM may have patents or pending patent applications covering subject matter in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

IBM World Trade Asia Corporation
Licensing
2-31 Roppongi 3-chome, Minato-ku
Tokyo 106, Japan

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law:

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Chapter 1. 3746 Worksheets

These worksheets are provided to help you with your planning before actually entering values into the Controller Configuration and Management (*CCM User's Guide*, SH11-3081) application. Correctly filled-out worksheets for each controller configuration can save you considerable time when you start using the *CCM User's Guide*, SH11-3081.

The online help for *CCM User's Guide*, SH11-3081 gives detailed explanations of the parameters and their values. It also gives parameter dependencies. The *CCM User's Guide, SH11-3081 User's Guide*, SH11-3081 helps you become familiar with navigating through *CCM User's Guide*, SH11-3081 and entering the *CCM User's Guide*, SH11-3081 parameters. The *IBM 3746 Nways Multiprotocol Controller Model 950 and 3746-900 Network Node: Implementation Guide*, GG24-2536 and *IBM 3746 Nways Multiprotocol Controller Model 950 and IBM Model 900: IP Implementation Guide*, SG24-4845 (IBM “redbooks”) give sample configurations with examples of the related *CCM User's Guide*, SH11-3081 panels.

Over three quarters of the parameters have default values.

Fill in the configuration information for each port, link, station, and DLUR (if necessary) worksheet before beginning the *CCM User's Guide*, SH11-3081 configuration process.

As you proceed with a configuration in *CCM User's Guide*, SH11-3081, you will see that certain parameter fields are grayed out. Their values cannot be changed. This occurs because you have already made a choice that does not allow certain other parameters to be changed because either:

- *CCM User's Guide*, SH11-3081 automatically sets the value.
- The parameter has no meaning for the type of configuration you have chosen.

Completing the Worksheets

To complete the worksheets, either check a box or write down a value.

Note: Refer to the *CCM User's Guide*, SH11-3081 online help for definitions of the parameters. You can find the start page for each group of worksheets as follows:

3745/3746 Parameters

Table 1. 3745/3746 Parameters	
Parameter	Possible Values
3746 Model	□ 900 □ *950*
3745 identifier	_____ (alphanumeric characters)
Mode of operations	□ Single □ Twin backup □ Twin dual □ Twin standby

ESCON Configuration Sheets

To quickly locate a worksheet:

ESCON Port Configuration

Table 2. ESCON Port Identification	
Port number: _____	
Network:	□ *APPN* □ IP □ SNA Subarea
Fiber Status	□ *Enable* □ Transmit OLS □ Disable
Port name APPN	_____ alphanumeric characters
Port name IP	_____ alphanumeric characters
Automatic reactivation (APPN)	□ *Yes* □ No
Automatic reactivation (IP)	□ *Yes* □ No
NPA eligible	□ Yes □ *No*
Port attached to an ESCD?	□ *Single* □ Chained □ None
ESCD number	_____hexadecimal (default: *0*)
ESCD model	□ *9032* □ 9033
Control Unit Link Address (LINK)	_____hexadecimal (80 - FB, default: *80*)

ESCON Port – Host Link Configuration

Table 3. ESCON Host Link Identification	
Port number: _____	
Network	□ *APPN (A)* □ IP (I) □ SNA/Subarea (S)
Host Link Name (APPN)	_____ (alphanumeric characters)
Host Link Name (IP)	_____ (alphanumeric characters)
Host mode?	□ *Basic* □ LPAR □ EMIF
Host name	_____ (alphanumeric characters)
Partition name	_____ (alphanumeric characters)
CHPID	_____hexadecimal (0-FF, default: *0*)
Partition number	□ *Dynamic* □ Defined If defined: _____hexadecimal (1-A, default: *1*)
Host Link Address (HLA)	□ *Dynamic* □ Defined If defined: _____hexadecimal (80-FB, default: *80*)

ESCON Host Link – APPN Parameters

Table 4. ESCON Host Link – APPN Parameters	
Port number: _____ **Port name:** _____	
Automatic reactivation	□ *Yes* □ No
NPA eligible	□ Yes □ *No*
Maximum received PIU size	_____bytes (525-8000, default= *2058*)
Maximum sent PIU size	_____bytes (525-8000, default= *2058*)
HPR support	□ *ERP required* □ No HPR support
Propagation delay	□ *Minimum* □ LAN □ Telephone □ Packet Switched Network □ Satellite □ Maximum
Security	□ *Non secure* □ Public Switched □ Underground Cable □ Secure Conduit □ Guarded Conduit □ Encrypted □ Guarded Radiation
Relative cost per byte	_____ (0-255, default: *0*)
Relative cost per unit of time	_____ (0-255, default: *0*)

Table 5. APPN User Defined Parameters	
Port number: _____ **Port name:** _____	
User defined 1	_____ (0-255, default: *0*)
User defined 2	_____ (0-255, default: *0*)
User defined 3	_____ (0-255, default: *0*)

ESCON Port – Station Configuration

Table 6. ESCON Station Identification	
Port number: _____ **Port name :** _____ **Host link name:** _____	
Network	□ *APPN (A)* □ IP (I) □ SNA/Subarea (S)
Access Method	□ VTAM □ TPF
Name	_____ (alphanumeric characters)
PU type	□ 1 □ *2.1* □ 5
Unit address (UA)	_____hexadecimal (default: *1*)
IPL through that station	□ *Yes* □ No
On which CCU	□ *CCU-A* □ CCU-B
IP address	_____ (IP dotted notation)
IP subnet mask	_____ (IP dotted notation)
Comments	_____ _____

ESCON Station – APPN Parameters

Table 7. ESCON Station – APPN Parameters	
Port number: _____ **Port name:** _____ **Station name:** _____	
Activated at startup	□ *Yes* □ No
CP-CP session support	□ *Yes* □ No
Automatic re-activation	□ *Yes* □ No
Re-activation timer	_____ seconds (1-255, default: *30*)
NPA eligible	□ Yes □ *No*
HPR support	□ *ERP required* □ No HPR support
TG Characteristics	
Propagation delay	□ *Minimum* □ LAN □ Telephone □ Packet Switched Network □ Satellite □ Maximum □ Use port values as defaults
Security	□ *Non secure* □ Public Switched □ Underground Cable □ Secure Conduit □ Guarded Conduit □ Encrypted □ Guarded Radiation □ Use port values as defaults
Effective capacity	_____bps (0-144000000, default: *144000000*)
Relative cost per byte	_____ (0-255, default: *0*)
Relative cost per unit of time	_____ (0-255, default: *0*)
User defined 1	_____ (0-255, default: *0*)
User defined 2	_____ (0-255, default: *0*)
User defined 3	_____ (0-255, default: *0*)

ESCON Station – APPN/IP DLC Parameters

Table 8. ESCON Station – APPN/IP DLC Parameters	
Port number: _____ **Port name:** _____ **Station name:** _____ **Number:**_____	
Channel Adapter Slowdown Timer (CASDL)	_____tenths of a second (0-8400, default: *1800*)
Attention timer (TIMEOUT)	_____tenths of a second (0-8400, default: *1800*)
Delay timer (DELAY)	_____tenths of a second (0-4200, default: *1*)
Total transmit threshold	_____ (1–65025, default: *61440*)
Total retry threshold	_____ (1–65025, default: *61440*)

ESCON Port – IP Access Controls

Table 9. IP Access Controls	
Port number: _____ **Port name:** _____	
Packet filter type (PFT)	□ *Input (I)* □ Output (O)
Access control type	□ *Permit/Inclusive (I)* □ Deny/Exclusive (E)
Source Network IP address	_____ (IP dotted notation)
Source Mask address	_____ (IP dotted notation)
Destination Network IP address	_____ (IP dotted notation)
Destination Mask address	_____ (IP dotted notation)
Protocol number: From	_____numerical (0 – 255, default: 0)
Protocol number: To	_____numerical (0 – 255, default: 255)
Port number: From	_____numerical (0 – 65535, default: 0)
Port number: To	_____numerical (0 – 65535, default: 65535)

Serial Line Configuration Sheets

To quickly locate a configuration sheet:

Serial Line Port Configuration

Table 10. Serial Line Port Configuration Parameters	
Port number: _____ **Port name:** _____	
DLC type	□ Frame relay □ PPP □ *SDLC* □ X.25
Network	□ *APPN* □ IP □ FRFH
Port (number)	_____
APPN name	_____ (alphanumeric characters)
IP name	_____ (alphanumeric characters)
Comments	_____ _____

SDLC Port – DLC Parameters

Table 11 (Page 1 of 2). SDLC Port – DLC Parameters	
Default values are different for LIC11 and LIC12. They are not shown in Table 11. Refer to the online help for further information.	
Port number: _____ **Port name:** _____	
Port type	□ Leased □ Switched
Interface	□ V.24 □ V.25B □ V.35 □ X.21
Clocking	□ Internal □ Direct □ External
Data rate	□ High □ Low
Speed	_____Kbps (0.6, 1.2, 2.4, 4.8, *9.6*, 19.2, 32, 38.4, 55.855, 64, 256)
Link station role	□ Negotiable □ Primary □ Secondary
Transmit/Receive Capability	□ Half Duplex □ Full Duplex
Limited resource	□ Yes □ No
Transmit request to send on (DUPLEX)	□ Yes □ No
Transmit NRZI	□ Yes □ No
Echo defeat	□ Yes □ No
Half duplex send priority (HDXSP)	□ Yes □ No
Link session priority (LSPRI)	□ Yes □ No
Multipoint capable (MULTI)	□ Yes □ No
Monitor ring indicator (RING)	□ Yes □ No
Generate answer tone (ANSTONE)	□ Yes □ No
Interframe gap (ADDIFG)	□ Yes □ No
Enable timer (ENABLTO)	_____tenths of seconds (1-16320)

Table 11 (Page 2 of 2). SDLC Port – DLC Parameters	
Default values are different for LIC11 and LIC12. They are not shown in Table 11 on page 12. Refer to the online help for further information.	
Disable timer (DSABLTO)	_____tenths of seconds (1-16320)
Reply timer (REPLYTO)	_____tenths of seconds (1-600)
Activity timer (ACTIVTO)	_____tenths of seconds (1-4200)
Dial timer (DIALTO)	_____tenths of seconds (1-16320)
Transmit delay timer (XMITDLY)	_____tenths of seconds (1-600)
Retry timer (RETRYTO)	_____tenths of seconds (1-16320)
Poll pause (PAUSE)	_____tenths of seconds (0-255)
CPoll rate (SERVLIM)	_____numerical (1-255)
Dial attempt (REDIAL-m)	_____numerical (0-255)
Dial pause per attempt (REDIAL-t1)	_____seconds (0-765)
Dial sequence (REDIAL-n)	_____numerical (0-255)
Dial pause per sequence (REDIAL-t2)	_____seconds (0-765)

SDLC Port – APPN Parameters

Table 12. SDLC Port - APPN Parameters	
Port number: _____ **Port name :** _____ **Host link name:** _____	
Accept any incoming call	□ *Yes* □ No If Yes Maximum number of incoming calls: _____
Automatic reactivation	□ Yes □ *No*
NPA eligible	□ Yes □ *No*
Maximum receive PIU size	_____bytes (99-8000, default= *2058*)
Maximum sent PIU size	_____bytes (99-8000, default= *2058*)
HPR support	□ *ERP required* □ No HPR support
Propagation delay	□ Minimum □ LAN □ *Telephone* □ Packet Switched Network □ Satellite □ Maximum
Security	□ *Non-secure* □ Public Switched □ Underground Cable □ Secure Conduit □ Guarded Conduit □ Encrypted □ Guarded Radiation
Relative cost per byte	_____ (0-255, default:*0*)
Relative cost per unit of time	_____ (0-255, default:*0*)
User defined 1	_____ (0-255, default: *0*)
User defined 2	_____ (0-255, default: *0*)
User defined 3	_____ (0-255, default: *0*)

SDLC Port – Station Configuration

Table 13. SDLC Station Configuration	
Port number: _____ **Port name:** _____	
Name	_____ (alphanumeric characters)
PU type	□ 1 □ 2 □ *2.1*
Destination Address	_____hexadecimal (01 - FE, default: *1*)
Call request	□ *CRN* □ CRI □ CRS □ None
Dial number	_____
Comments	_____ _____

SDLC Station – APPN Parameters

Table 14 (Page 1 of 2). SDLC Station – APPN Parameters	
Port number:_____ **Port name:**_____ **Host link name (APPN):**_____ **Host link name (IP):**_____	
Activated at startup	□ *Yes* □ No
CP-CP session support	□ Yes □ *No*
Automatic re-activation	□ *Yes* □ No
Re-activation timer	_____ seconds (1-255, default:*30*)
NPA eligible	□ Yes □ *No*
HPR support	□ *ERP required* □ No HPR support
TG characteristics	
Propagation delay	□ Minimum □ LAN □ *Telephone* □ Packet Switched Network □ Satellite □ Maximum
Security	□ *Non-secure* □ Public Switched □ Underground Cable □ Secure Conduit □ Guarded Conduit □ Encrypted □ Guarded Radiation
Effective capacity (LIC11)	_____bps (0-9600, default:*9600*)
Effective capacity (LIC12)	_____bps (0-2047800, default:*2047800*)
Relative cost per byte	_____ (0-255, default:*128*)
Relative cost per unit of time	_____ (0-255, default:*128*)
User defined 1	_____ (0-255, default: *0*)
User defined 2	_____ (0-255, default: *0*)
User defined 3	_____ (0-255, default: *0*)
Multilink Transmission Group (MLTG) and Activate on Demand (AOD) Parameters	

Table 14 (Page 2 of 2). SDLC Station – APPN Parameters	
	□ MLTG □ AOD
MLTG name	_____
TG number	_____ (default=1)
AOD Parameters:	
Adjacent node Network ID	_____
Adjacent node Control point name	_____
Adjacent node type	□ NN □ EN □ LEN
Dependent LU Requester (DLUR) Parameters	
Adjacent node identifier	_____(hexadecimal)
XID receipt supported	□ *Yes* □ No
Primary Dependent LU Server (DLUS): Primary DLUS Network identifier	_____
Primary DLUS Server name	_____
Backup DLUS	□ Yes □ *No*
Backup DLUS: Network identifier	_____
Server name	_____

Adjacent Node – Remote LUs

Table 15. Adjacent Node – Remote LUs	
Remote LU	
Network Identifier Remote LU name	_____ _____
Wildcard Entry (WE)	□ Full (F) □ Partial (P) □ *No* (N)
Adjacent Node	
Network Identifier Control point name	_____ _____
Comments	_____ _____

SDLC Station – DLC Parameters

Table 16. SDLC Station – DLC Parameters	
Port number: _____ **Port name:** _____ **Station name:** _____	
Full Duplex Data (DATMODE)?	□ Yes □ No
Limited Resource	□ Yes □ No
Modulo	□ *8* □ 128
Group poll (GP3174)	□ Yes □ *No*
Group poll address (group address)	_____hexadecimal (01-FE)
Polling weight	_____ (1–255, default: *1*:)
Maximum transmitted frames before acknowledgment received (MAXOUT)	_____ (1–7, default: *1*)
Maximum number of frames (PASSLIM)	_____ (1–254, default: *254*)
RNR limit (RNRLIMIT)	_____seconds (60–5400, default: *180*)
Total transmit threshold	_____seconds (1–65025, default: *61440)*
Total retry threshold	_____seconds (1–65025, default: *61440)*
Immediate retry (IRETRY)	□ Yes □ *No*
Infinite retries	□ *Yes* □ No
Retries per retry sequence (RETRIES-m)	_____seconds (0–128, default: *15*)
Retry sequences (RETRIES-n)	_____seconds (0–127, default: *0*)
Pause between retry sequences (RETRIES-t)	_____seconds (0–255, default: *0*)

Frame-Relay Port – DLC Parameters

Table 17. Frame-Relay Port – DLC Parameters	
Port number: _____ **Port name:** _____	
Port type	□ *Leased* □ Switched
Interface	□ *V.24* □ V.25B □ V.35 □ X.21
Clocking	□ Internal □ Direct □ External
Data rate	□ High □ Low
Speed	_____Kbps (0.6, 1.2, 2.4, 4.8, 9.6, 19.2, 32, 38.4, 55.855, 64, 256, default=9.6)
Transmit NRZI	□ Yes □ *No*
Interframe gap (ADDIFG)	□ Yes □ *No*
Limited resources	□ Yes □ No
Bandwidth Management	□ COMRATE □ CIR
Maximum frame size (MAXFRAME)	_____bytes (282 – 8050, default: *2106*)
Data block size (DATABLK)	_____bytes (265 – 16732, default: *2048*)
Enable timer (ENABLTO)	_____tenths of seconds (1 – 16320, default: *22*)
Disable timer (DSABLTO)	_____tenths of seconds (1 – 16320, default: *30*)
Boundary node identifier	_____hexadecimal (1 – 7FFFFFFFFFFF, default: *4FFF00000000*)
Local SAP (LSAP)	_____hexadecimal (04 – 9C, default: *8*)

Frame-Relay Port - LMI Parameters

Table 18. Frame-Relay Port – LMI Parameters	
Port number: _____ **Port name:** _____	
Category	□ ANSI □ *ITU-T* □ No
Echo	□ Primary □ Secondary □ *Neither*
LMI NPA eligible	□ *Yes* □ No
Remote LMI support	□ *Negotiable* □ Network to user
Maximum number of DLCIs	_____numerical (1 – 418, default: *48*)
Link integrity verification polling timer (TIMERS - t391)	_____seconds (5 – 30, default: *10*)
Polling verification timer (t392)	_____seconds (5 – 30, default: *15*)
Status polling counter (SPOLL)	_____numerical (1 – 255, default: *6*)
Error Threshold (ERRORT - n392)	_____numerical (1 – 10, default: *3*)
Monitored event counts (n393)	_____numerical (1 – 10, default: *4*)

Frame-Relay Port - CIR Parameters

Table 19. Frame-Relay Port – CIR Parameters	
Port number: _____ **Port name:** _____	
Minimum information rate	_____% of CIR (default: *25%*)
Adaptation precision	_____numerical (6 – 10, default: *7*)
CLLM support	□ Yes □ *No*
Recovery interval timer (ty)	_____seconds (5 – 30, default: *11*)

Frame-Relay Port - APPN Parameters

Table 20. Frame-Relay Port – APPN Parameters	
Port number: _____ **Port name:** _____	
Accept any incoming call	□ *Yes* □ No If Yes Maximum number of incoming calls: _____ (0-3000, default: *3000*)
Automatic reactivation	□ *Yes* □ *No*
NPA eligible	□ Yes □ *No*
Maximum receive PIU size	_____bytes (99-8000, default= *2106*)
Maximum sent PIU size	_____bytes (99-8000, default= *2106*)
HPR support	□ *No ERP preferred* □ No HPR support □ ERP required □ ERP not allowed
Propagation delay	□ *Minimum* □ LAN □ Telephone □ Packet Switched Network □ Satellite □ Maximum
Security	□ *Non-secure* □ Public Switched □ Underground Cable □ Secure Conduit □ Guarded Conduit □ Encrypted □ Guarded Radiation
Relative cost per byte	_____ (0-255, default:*0*)
Relative cost per unit of time	_____ (0-255, default:*0*)
User defined 1	_____ (0-255, default: *0*)
User defined 2	_____ (0-255, default: *0*)
User defined 3	_____ (0-255, default: *0*)

Frame-Relay DLCI/COMRATE Parameters

Table 21. Frame-Relay DLCI/COMRATE Parameters	
Port number: _____ **Port name:** _____	
Configure a DLCI	
Network	□ APPN □ IP □ FRFH
DLCI number	_____numerical (16-991)
DLCI IP name	_____numerical
Remote IP address	_____numerical
Communication rate (COMRATE)	Per APPN station □ Default value _____bits (16384-1048576) IP □ Default value _____bits (16384-1048576)

Frame-Relay DLCI/CIR Parameters

Table 22. Frame-Relay DLCI/CIR Parameters	
Port number: _____ **Port name:** _____	
Configure a DLCI	
Network	□ APPN □ IP □ FRFH
DLCI number	_____numerical (16-991)
DLCI IP name	_____numerical
Remote IP address	_____numerical
Use default DLCI values	□
Measurement interval (Tc)	_____tenths seconds (1-255)
Committed burst size (Bc)	_____bits (0-1048576)
Excess burst size (Be)	_____bits (0-1048576)
Excess burst size (Be)	_____bits (0-1048576)
APPN BRS	□ Yes □ No
IP BRS	□ Yes □ No

Frame-Relay DLCI/CIR - Bandwidth Reservation System (BRS) Parameters

Table 23. Frame-Relay DLCI/CIR – BRS Parameters	
Port number: _____ **Port name:** _____ **DLCI number:** _____	
Configure a DLCI	
APPN/HPR ERP	_____%
HPR non ERP	_____%
IP	_____%
IP sockets (Port number) Socket:_____(1-20000) BRS:_____	

DLCI Remote IP Addresses

Table 24. DLCI Remote IP Addresses

Port number: _____
Port name: _____
DLCI IP name: _____
DLCI number: _____

Remote IP addresses

APPN over Frame-Relay - Station Configuration

Table 25. APPN over Frame-Relay – Station Configuration	
Port number: _____ **Port name:** _____ **DLCI number:** _____	
Name	_____ (alphanumeric)
Type □ FRTE PU 1 or 2 □ *FRTE PU 2.1*	
Frame format (FF)	□ *Routed* □ Bridged
Remote MAC address (LAA)	_____hexadecimal
Remote SAP (RSAP)	_____hexadecimal (02 – FE, default: *4*
Comments	_____ _____

Frame-Relay Station Configuration – APPN Parameters

Table 26 (Page 1 of 2). Frame-Relay Station – APPN Parameters	
Port number:_____ **Port name:**_____ **Host link name (APPN):**_____ **Host link name (IP):**_____	
Activated at startup	□ Yes □ *No*
CP-CP session support	□ *Yes* □ No
Automatic re-activation	□ *Yes* □ No
NPA eligible	□ Yes □ No
HPR support	□ *No ERP preferred* □ ERP not allowed □ ERP required □ No HPR support
TG characteristics	
Propagation delay	□ *Minimum* □ LAN □ Telephone □ Packet Switched Network □ Satellite □ Maximum
Security	□ *Non secure* □ Public Switched □ Underground Cable □ Secure Conduit □ Guarded Conduit □ Encrypted □ Guarded Radiation
Effective capacity (LIC11)	_____kbps (0-9.6, default: *9.6*)
Effective capacity (LIC12)	_____kbps (0-2047.8, default: *2047.8*)
Relative cost per byte	_____ (0-255, default: *0*)
Relative cost per unit of time	_____ (0-255, default: *0*)
User defined 1	_____ (0-255, default: *0*)
User defined 2	_____ (0-255, default: *0*)
User defined 3	_____ (0-255, default: *0*)
Multilink Transmission Group (MLTG) and Activate on Demand (AOD) Parameters	
	□ MLTG □ AOD

Table 26 (Page 2 of 2). Frame-Relay Station – APPN Parameters	
MLTG name	_____
TG number	_____ (default=1)
AOD Parameters: Adjacent node Network ID	_____
Adjacent node Control point name	_____
Adjacent node type	□ NN □ EN □ LEN
Dependent LU Requester (DLUR) Parameters	
Adjacent node identifier	_____(hexadecimal)
XID receipt supported	□ *Yes* □ No
Primary Dependent LU Server (DLUS): Primary DLUS Network identifier	_____
Primary DLUS Server name	_____
Backup DLUS	□ Yes □ *No*
Backup DLUS: Network identifier	_____
Server name	_____

Frame-Relay/FRTE Station/DLC parameters

Table 27. Frame-Relay/FRTE Station	
Port number:_____ **Port name:**_____ **Host link name (APPN):**_____ **Host link name (IP):**_____	
Window increment (DYNWIND - nw)	_____numerical (1 – 8, default: *4*)
Window decrement for congestion (DYNWIND - dwc)	_____numerical (1 – 16, default: *1*)
Discard eligibility	□ None/Yes □ *Full/No*
T1 reply timer (LOCALT0):	_____tenths of a second (6–200,default: *100*)
T2 acknowledgment timer (LOCALT2):	_____tenths of a second (0–20,default: *2*)
Inactivity timer (TITIMER):	_____seconds (60–254,default: *60*)
Maximum transmitted frames before acknowledgment received (MAXOUT):	_____numerical (1–127,default: *8*)
Maximum received frames before acknowledgment transmitted (MAXIN):	_____numerical (1–127,default: *6*)
RNR limit (RNRLIMIT):	_____seconds (60–5400,default: *180*)
Authorize infinite retries?	□ *Yes* □ No
Retries per retry sequence (RETRIES-m):	_____numerical (1–128,default: *6*)
Retry sequences (RETRIES-n):	_____numerical (0–127,default: *0*)
Pause between retry sequences (RETRIES-t):	_____seconds (0–255,default: *0*)

IP over Frame-Relay

Table 28. IP over Frame-Relay	
Port number: _____ **Port name:** _____	
Automatic reactivation	□ *Yes* □ No
General	□ Enable orphan circuits □ Enable multicast emulation □ Enable protocol broadcast □ Enable congestion monitor
Down time	_____seconds (0 – 300, default: *0*)
IP address:	_____ (IP dotted notation)
Enable next hop awareness (NHA)	□
Subnet mask:	_____ (IP dotted notation)

Frame-Relay Frame-Handler (FRFH) Set Configuration Parameters

Table 29. Frame-Relay Frame&dashHandler Set Configuration Parameters	
FRFH set name	_____
NPA eligible	□ Yes □ *No*
Port DLCI name Primary partners	 A _____ B_____
Substitute partners	C_____ D_____

PPP Port – Parameters

Table 30 (Page 1 of 2). PPP Port – Parameters	
Port number: _____ **Port name:** _____	
Port type	□ *Leased* □ Switched
Interface	□ *V.24* □ V.25B □ V.35 □ X.21
Clocking	□ Internal □ Direct □ *External*
Data rate	□ *High* □ Low
Speed	_____Kbps (0.6, 1.2, 2.4, 4.8, 9.6, 19.2, 32, 38.4, 55.855, 64, 256, default=9.6)
Transmit NRZI	□ Yes □ *No*
Interframe gap (ADDIFG)	□ Yes □ *No*
Automatic re-activation	□ Yes □ *No*
Maximum transmission unit	_____bytes (576 – 4088, default: *2048*)
Port IP Address: □ Unnumbered IP address IP address Subnet mask	 _____ (IP dotted notation) _____ (IP dotted notation)
LCP parameters	
Retry timer	_____milliseconds (200 – 30000, default: *3000*)
Config tries	_____numerical (1 – 100, default: *20*)
NAK tries	_____numerical (1 – 100, default: *10*)
Terminate tries	_____numerical (1 – 100, default: *10*)
Down time	_____seconds (0 – 300, default: *0*)
Enable timer (ENABLETO)	_____ts (1 – 16320, default: *22*)
Magic number	□
Number of slots	_____num (1 – 16, default: *16*)
IP compression	□

Table 30 (Page 2 of 2). PPP Port – Parameters	
Send IP address	□
Request IP address	□

PPP Port - BRS Parameters

Table 31. PPP Port – BRS Parameters	
Port number: _____ **Port name:** _____	
Enable Bandwidth Reservation for this port	□
Configure a Bandwidth Reservation Class (BRC)	
Class name	_____
Bandwidth percentage	_____numerical (1 – 99, default: *40*)

PPP Port - BRS Protocol and Application Assignment

Table 32. PPP Port – BRS Protocol – Application Assignment

Protocol or Application	**Class Name or Bandwidth**	**Priority**
IP	_____ (defaut: *DEFAULT*)	□ *Normal* □ Urgent □ High □ Low
Rlogin	_____ (defaut: *DEFAULT*)	□ *Normal* □ Urgent □ High □ Low
Telnet	_____ (defaut: *DEFAULT*)	□ *Normal* □ Urgent □ High □ Low
SNMP	_____ (defaut: *DEFAULT*)	□ *Normal* □ Urgent □ High □ Low
Multicast	_____ (defaut: *DEFAULT*)	□ *Normal* □ Urgent □ High □ Low

X.25 Port – DLC Parameters

Table 33. X.25 Port – DLC Parameters	
Port number: _____ **Port name:** _____	
Port type	□ *Leased* □ Switched
Interface	□ V.24 □ V.25B □ V.35 □ *X.21*
Clocking	□ Internal □ Direct □ *External*
Data rate	□ *High* □ Low
Speed	_____Kbps (0.6, 1.2, 2.4, 4.8, *9.6*, 19.2, 32, 38.4, 55.855, 64, 256)
Limited resource	□ Yes □ *No*
Transmit NRZI	□ Yes □ *No*
Interframe gap (ADDIFG)	□ Yes □ *No*
Enable timer (ENABLTO)	_____tenths of seconds (1-16320, default: *22*)
Disable timer (DSABLTO)	_____tenths of seconds (1-16320, default: *30*)

X.25 Port – LAPB Parameters

Table 34. X.25 Port – LAPB Parameters	
Port number: _____ **Port name:** _____	
DTE to DTE	□ Yes □ *No*
ILAPB role	□ *DTE* □ DCE
Modulo	□ 128 □ *8*
K (MWINDOW) Frame window size	_____numerical (1-7, default: *7*)
N1 (FRMLGTH) Maximum frame size	_____bytes (35-4100, default: *131*)
T1 (TPTIMER) Reply timer	_____tenths of seconds (5-255, default: *50*)
T2 Acknowledgement timer	_____tenths of seconds (0-255, default: *5*)
T4 Inactivity timer	_____seconds (1-65535, default: *60*)
N2 (NPRETRY) Maximum transmission attempts	_____numerical (1-255, default: *7*)

X.25 Port – PLP Parameters

Table 35 (Page 1 of 2). X.25 Port – PLP Parameters	
Port number: _____ **Port name:** _____	
X.25 local DTE address	_____
PLP role	□ *DTE* □ DCE □ Negotiable
X.25 version	□ *ITU-T 93* □ CCITT 80 □ CCITT 84 □ CCITT 88
Accounting required	□ Yes □ *No* If yes: Segment tax unit: □ Packet unit □ 32 □ *64* □ 128
Logical Channel Numbers (LCN) (1-4095)	
Permanent Virtual Circuits (PVCs) Lowest Highest	 _____ _____
DTE incoming channels (SVCs) Lowest Highest	 _____ _____
Two-way channels (SVCs) Lowest Highest	 _____ _____
DTE outgoing channels (SVCs) Lowest Highest	 _____ _____
PLP modulo	□ *8* □ 128
SVC defaults	
Packet window calling to called	_____numerical (1-7, default: *2*)
Packet window called to calling	_____numerical (1-7, default: *2*)
Packet size calling to called	_____bytes (default: *128*)
Packet size called to calling	_____bytes (default: *128*)
PLP Port Timers (seconds (1-255))	
Restart timer (T20)	_____bytes (default: *180*)
Call timer (T21)	_____bytes (default: *200*)
Reset timer (T22)	_____bytes (default: *180*)

Table 35 (Page 2 of 2). X.25 Port – PLP Parameters	
Clear timer (T23)	_____bytes (default: *180*)
PLP Port Maximum Retries (numerical (0-255))	
Restart retry (R20)	_____bytes (default: *1*)
Reset retry (R22)	_____bytes (default: *1*)
Clear retry (R23)	_____bytes (default: *1*)

X.25 Port – APPN Parameters

Table 36. X.25 Port – APPN Parameters	
Port number: _____ **Port name:** _____	
Accept any incoming call	□ *Yes* □ No If Yes Maximum number of incoming calls: _____
Automatic reactivation	□ *Yes* □ No
NPA eligible	□ Yes □ *No*
Maximum receive PIU size	_____bytes (99-8000, default= *2058*)
Maximum sent PIU size	_____bytes (99-8000, default= *2058*)
HPR support	□ *ERP required* □ No HPR support
Propagation delay	□ Minimum □ LAN □ Telephone □ *Packet Switched Network* □ Satellite □ Maximum
Security	□ Non-secure □ *Public Switched* □ Underground Cable □ Secure Conduit □ Guarded Conduit □ Encrypted □ Guarded Radiation
Relative cost per byte	_____ (0-255, default:*64*)
Relative cost per unit of time	_____ (0-255, default:*0*)
User defined 1	_____ (0-255, default: *0*)
User defined 2	_____ (0-255, default: *0*)
User defined 3	_____ (0-255, default: *0*)

IP over X.25 – Port Parameters

Table 37. IP over X25 – Port Parameters	
Port number: _____ **Port name:** _____	
Automatic reactivation	□ *Yes* □ No
Maximum transmission unit	_____bytes (576-4096, default: *2048*)
No idle timer Idle timer	□ _____seconds (1-255, default: *30*)
IP address	_____
Subnet mask	_____

X.25 Station Configuration

Table 38. X.25 Station Parameters	
Port number: _____ **Port name:** _____	
Network	□ *APPN* □ IP
Station name	_____
PVC SVC	□ □
TOA/NPI	□ Yes □ No
TOA	□ *Network dependent (0)* □ International (1) □ National (2)
NPI	□ *X.121 (3)* □ E164 (1)
Remote DTE address	_____
LCN	_____
PU type	□ 2 □ *2.1*
Comments	_____ _____

X.25 Station – DLC Parameters

Table 39. X.25 Station DLC Parameters	
Port number: _____ **Port name:** _____ **Network:** _____ **Station name:** _____ **X.25 remote DTE address:** _____ **PVC logical channel number:** _____	
PVC packet window size in	_____numerical (1-7, default: *2*)
PVC packet window size out	_____numerical (1-7, default: *2*)
PVC packet size in	_____bytes (32-4096, default: *128*)
PVC packet size out	_____bytes (32-4096, default: *128*)
QLLC retry count	_____seconds (0-255, default: *3*)
QLLC retry timer	_____seconds (1-255, default: *30*)
Limited resources	□ *Yes* □ No
Use port values as default	□

X.25 Station – APPN Parameters

Table 40 (Page 1 of 2). X.25 Station – APPN Parameters	
Port number: _____ **Port name:** _____ **Station name:** _____	
Activated at startup	□ *Yes* □ No
CP-CP session support	□ Yes □ *No*
Automatic re-activation	□ *Yes* □ No
Re-activation timer	_____ seconds (1-255, default:*30*)
NPA eligible	□ Yes □ *No*
HPR support	□ *ERP required* □ No HPR support
TG characteristics	
Propagation delay	□ Minimum □ LAN □ Telephone □ *Packet Switched Network* □ Satellite □ Maximum
Security	□ Non-secure □ *public Switched* □ Underground Cable □ Secure Conduit □ Guarded Conduit □ Encrypted □ Guarded Radiation
Effective capacity (LIC11)	_____bps (0-9600, default:*9600*)
Relative cost per byte	_____ (0-255, default:*64*)
Relative cost per unit of time	_____ (0-255, default:*0*)
User defined 1	_____ (0-255, default: *0*)
User defined 2	_____ (0-255, default: *0*)
User defined 3	_____ (0-255, default: *0*)
Multilink Transmission Group (MLTG) and Activate on Demand (AOD) Parameters	
	□ MLTG □ AOD
MLTG name	_____

Table 40 (Page 2 of 2). X.25 Station – APPN Parameters	
TG number	_____ (default=1)
AOD Parameters:	
Adjacent node Network ID	_____
Adjacent node Control point name	_____
Adjacent node type	□ NN □ EN □ LEN
Dependent LU Requester (DLUR) Parameters	
Adjacent node identifier	_____(hexadecimal)
XID receipt supported	□ *Yes* □ No
Primary Dependent LU Server (DLUS): Primary DLUS Network identifier	_____
Primary DLUS Server name	_____
Backup DLUS	□ Yes □ *No*
Backup DLUS: Network identifier	_____
Server name	_____

X.25 Station – Adjacent Node – Remote LUs

Table 41. X.25 Station – Adjacent Node – Remote LUs	
Remote LU	
Network Identifier Remote LU name	_____ _____
Wildcard Entry (WE)	□ Full (F) □ Partial (P) □ *No* (N)
Adjacent Node	
Network Identifier Control point name	_____ _____
Comments	_____ _____

IP over X.25 – Station Parameters

Table 42. IP over X.25 – Station Parameters	
Port number: _____ **Port name:** _____ **Station name:** _____ **X.25 remote DTE address:** _____ **PVC logical channel number:** _____	
Automatic reactivation	□ Yes □ *No*
Remote IP address	_____numerical

X.25 Station – SVC Call Requests User Facilities and Data

Table 43. X.25 Station – SVC Call Requests User Facilities and Data

Port number: _____ **Port name:** _____ **Network:** _____ **Station name:** _____ **X.25 remote DTE address:** _____	
Protocol identifier	□ *x'CB'* □ x'C3' □ x'CC'
Window size negotiation facility	□ In _____numerical (1-7, default *2*) Out _____numerical (1-7, default *2*)
Packet size negotiation facility	□ In _____bytes (*128*) Out _____bytes (*128*)
Request reverse charging facility	□
Request inter-network call redirection and deflection (ICRD) control facilities	□
ICRD status selection	□ *Prevention requested* □ Allowance requested
Add calling DTE address	□
Throughput class negotiation facility Format	□ □ *Basic* □ Extended In _____Kbps (default: *9.6*) Out _____Kbps (default: *9.6*)
Closed user group selection facility With outgoing access Format	□ □ □ *Basic* □ Extended _____numerical (1-99, default: *0*)

X.25 Station – SVC Call Requests User Facilities and Data (UFD)

Table 44. X.25 Station – SVC Call Requests User Facilities and Data (UFD)

Port number: _____ **Port name:** _____ **Network:** _____ **Free UFD space (hex):** _____ **Station name:** _____ **X.25 remote DTE address:** _____	
NUI selection facility	□ Size (min-max) _____hex (1-218)
RPOA selection facility Format	□ □ Basic □ *Extended* _____numerical (1000-9999, default: *1000*) Size (min-max) _____bcd (4-216)
Transit delay selection and indication facility	□ _____milliseconds (0-65534, default: *1*)
Non-standard user facilities (marker(s) requested)	□ Size (min-max) _____hex (1-218, default: *00*)
Call user data PI	□ _____hex (2-30)

X.25 Station – SVC Calling DTE Address

Table 45. X.25 Station – SVC Calling DTE Address	
Port number: _____ **Port name:** _____ **Network:** _____ **Station name:** _____ **X.25 remote DTE address:** _____	
Calling DTE address	
TOA	□ *Network dependent (0)* □ International (1) □ National (2)
NPI	□ *X.121 (3)* □ E.164 (1)
Calling DTE address	_____

Serial Port – IP Access Controls

Table 46. Serial Port – Access Controls	
Port number:_____ **Port name:**_____	
Packet filter type	□ *Input (I)* □ Output (O)
Access control type	□ *Permit/Inclusive (I)* □ Deny/Exclusive (E)
Source Network IP address	_____ (IP dotted notation)
Source Mask address	_____ (IP dotted notation)
Destination Network IP address	_____ (IP dotted notation)
Destination Mask address	_____ (IP dotted notation)
Protocol number: From	_____numerical (0 – 255, default: 0)
Protocol number: To	_____numerical (0 – 255, default: 255)
Port number: From	_____numerical (0 – 65535, default: 0)
Port number: To	_____numerical (0 – 65535, default: 65535)

Token-ring Configuration Sheets

To quickly locate a worksheet:

Token-Ring Port Configuration

Table 47. Token-Ring Port Identification	
Port number: _____	
Network	□ *APPN* □ IP
APPN Name	_____ (alphanumeric characters)
IP Name	_____ (alphanumeric characters)
Speed	□ 4 Mbps □ *16* Mbps
Local MAC address (LAA or UAA)	_____hexadecimal
APPN Local SAP (LSAP)	_____hexadecimal (04 - 9C, default: *8*)
IP maximum transmission unit	_____bytes (516 - 17749, default: *2052*)
Comments	_____ _____

Token-Ring Port Configuration – DLC Parameters

Table 48. Token-Ring Port Configuration – DLC Parameters	
Port number: _____ **Port name:** _____	
Limited resources	□ *Yes* □ No
T1 reply timer (LOCALT0):	_____tenths of a second (6–200,default: *100*)
T2 acknowledgment timer (LOCALT2):	_____tenths of a second (0–20,default: *2*)
Inactivity timer (TITIMER):	_____seconds (60–254,default: *60*)
Maximum transmitted frames before acknowledgment received (MAXOUT):	_____seconds (1–127,default: *8*)
Maximum received frames before acknowledgment sent (MAXIN):	_____seconds (1–127,default: *6*)
RNR limit (RNRLIMIT):	_____seconds (60–5400,default: *180*)
Authorize infinite retries?	□ *Yes* □ No
Retries per retry sequence (RETRIES-m):	_____seconds (0–128,default: *6*)
Retry sequences (RETRIES-n):	_____seconds (0–127,default: *0*)
Pause between retry sequences (RETRIES-t):	_____seconds (0–254,default: *0*)

Token-Ring Port Configuration – APPN Parameters

Table 49. Token-Ring Port Configuration – APPN Parameters	
Port number: _____ **Port name :** _____ **Host link name:** _____	
Accept any incoming call	□ *Yes* □ No If yes Maximum number of incoming calls _____ (0-1250, default: 1250)
Automatic reactivation	□ *Yes* □ No
NPA eligible	□ Yes □ No
Maximum receive PIU size	_____bytes (99-8000, default: *2058*)
Maximum sent PIU size	_____bytes (99-8000, default: 2058)
HPR support	□ *No ERP preferred* □ ERP not allowed □ ERP required □ No HPR support
Propagation delay	□ Minimum □ *LAN* □ Telephone □ Packet Switched Network □ Satellite □ Maximum
Security	□ *Non-secure* □ Public Switched □ Underground Cable □ Secure Conduit □ Guarded Conduit □ Encrypted □ Guarded Radiation
Relative cost per byte	_____ (0-255, default: *0*)
Relative cost per unit of time	_____ (0-255, default: *0*)
User defined 1	_____ (0-255, default: *0*)
User defined 2	_____ (0-255, default: *0*)
User defined 3	_____ (0-255, default: *0*)

Token-Ring Port – Connection Network Configuration

Table 50. Connection Network Parameters	
Port number: _____ **Port name:** _____	
Network identifier	_____ (alphanumeric characters)
CN name	_____ (alphanumeric characters)

Token-Ring Port – Station Configuration

Table 51. Token-Ring Station Identification	
Port number: _____ **Port name:** _____	
Name	_____ (alphanumeric characters)
Remote MAC address (LAA or UAA)	_____(hexadecimal)
Remote SAP (RSAP)	_____hexadecimal (02–FE, default:*4*)
Comments	_____ _____

IP over Token-Ring Parameters

Table 52. IP over Token-Ring Parameters	
Port number: _____ **Port name:** _____	
Automatic reactivation	□ *Yes* □ No
Enable source routing	□ *Yes* □ No
RIF timer	_____decimal (0–4096, default: *120*)
IP address	_____ (IP dotted notation)
IP subnet mask	_____ (IP dotted notation)

IP Access Controls

Table 53. IP Access Controls	
Port number: _____	
Packet filter type (PFT)	□ *Input (I)* □ Output (O)
Access control type	□ *Permit/Inclusive (I)* □ Deny/Exclusive (E)
Source Network IP address	_____ (IP dotted notation)
Source Mask address	_____ (IP dotted notation)
Destination Network IP address	_____ (IP dotted notation)
Destination Mask address	_____ (IP dotted notation)
Protocol number: From	_____numerical (0 – 255, default: 0)
Protocol number: To	_____numerical (0 – 255, default: 255)
Port number: From	_____numerical (0 – 65535, default: 0)
Port number: To	_____numerical (0 – 65535, default: 65535)

Token-Ring Station – DLC Parameters

Table 54. Token-Ring Station – DLC Parameters	
Port number: _____ **Port name:** _____ **Station name:** _____	
Limited resources	□ Yes □ No
Use port values as default	□
T1 reply timer (LOCALT0):	_____tenths of a second (6–200, default: *100*)
T2 acknowledgment timer (LOCALT2):	_____tenths of a second (0–20, default: *2*)
Inactivity timer (TITIMER):	_____seconds (60–254, default: *60*)
Maximum transmitted frames before acknowledgment received (MAXOUT):	_____ (1–127, default: *8*)
Maximum received frames before acknowledgment sent (MAXIN):	_____ (1–127, default: *6*)
RNR limit (RNRLIMIT):	_____seconds (60–5400, default: *180*)
Authorize infinite retries?	□ *Yes* □ No
Retries per retry sequence (RETRIES-m):	_____ (0–128, default: *6*)
Retry sequences (RETRIES-n):	_____ (0–127, default: *0*)
Pause between retry sequences (RETRIES-t):	_____ (0–254, default: *0*)

Token-Ring Station – APPN Parameters

Table 55 (Page 1 of 2). Token-Ring Station – APPN Parameters	
Port number:_____ **Port name:**_____ **Host link name (APPN):**_____ **Host link name (IP):**_____	
Activated at startup	□ *Yes* □ No
CP-CP session support	□ *Yes* □ No
Automatic re-activation	□ *Yes* □ No
NPA eligible	□ Yes □ No
HPR support	□ *No ERP preferred* □ ERP required □ ERP not allowed □ No HPR support
TG characteristics	
Propagation delay	□ Minimum □ *LAN* □ Telephone □ Packet Switched Network □ Satellite □ Maximum
Security	□ *Non secure* □ Public Switched □ Underground Cable □ Secure Conduit □ Guarded Conduit □ Encrypted □ Guarded Radiation
Effective capacity	_____bps (0-15999900, default:*15999900*)
Relative cost per byte	_____ (0-255, default: *0*)
Relative cost per unit of time	_____ (0-255, default: *0*)
User defined 1	_____ (0-255, default: *0*)
User defined 2	_____ (0-255, default: *0*)
User defined 3	_____ (0-255, default: *0*)
Multilink Transmission Group (MLTG) and Activate on Demand (AOD) Parameters	
	□ MLTG □ AOD
MLTG name	_____

Table 55 (Page 2 of 2). Token-Ring Station – APPN Parameters	
TG number	_____ (default=1)
AOD parameters	
Adjacent node Network ID	_____
Adjacent node Control point name	_____
Adjacent node type	□ NN □ EN □ LEN
Remote LU	
Network Identifier	_____
Remote LU name	_____
Wildcard Entry (WE)	□ Full (F) □ Partial (P) □ *No* (N)
Adjacent Node	
Network Identifier	_____
Control point name	_____
Comments	_____ _____
Dependent LU Requester (DLUR) Parameters	
Adjacent node identifier	_____(hexadecimal)
XID receipt supported	□ *Yes* □ No
Primary Dependent LU Server (DLUS): Primary DLUS Network identifier	_____
Primary DLUS Server name	_____
Backup DLUS	□ Yes □ *No*
Backup DLUS: Network identifier	_____
Server name	_____

Network Node, Focal Point, and DLUR Worksheets

Network Node and DLUR Configuration Parameters

Table 56 (Page 1 of 2). NN/FP/DLUR Configuration	
Network Node and Focal Point Parameters	
Network Node: Network Identifier Control point name	 _____ _____
Comments	_____ _____
Network Management Focal Point Network Identifier Control point name	 _____ _____
HPR Support	□ HPR base (ANR) □ No HPR support □ HPR transport tower □ HPR control flow tower
Dependent LU Requester (DLUR) Parameters	
Primary dependent LU server (DLUS) Network Identifier Control point name	 _____ _____
Backup DLUS?	□ Yes □ *No*
Backup DLUS Network identifier Control point name	 _____ _____
DLUR retry parameters	
No retries	□ Yes □ No
Short retries	
No short retries	□ Yes □ No
Number of short retries	_____ (1-32767, default: *5*)
Waiting time before short retries	_____seconds ([1])–120, default: *10*)
Long retries	
No long retries	□ Yes □ No
Number of long retries	_____ (1-32767, default: *5*)
Waiting time before long retries	_____seconds (30 – 1200, default: *30*)
Backup Focal Point Parameters	

Table 56 (Page 2 of 2). NN/FP/DLUR Configuration
Network Identifier _____ Control point name _____

Network Node Characteristics

Table 57. Network Node Characteristics	
Number of destination LUS location cache entries	_____numerical (10 – 32765, default: *5000*)
Route addition resistance	_____numerical (0 – 255, default: *128*)
Number of times TRS tree is used before recalculation	_____numerical (2 – 15, default: *10*)

RTP Parameters

Table 58. RTP Parameters	
Maximum number of sessions per RTP connection	_____numerical (1 – 65535, default: *100*)
Maximum number of sessions of RTP retries	_____numerical (0 – 10, default: *6*)
RTP liveness timer	_____seconds (60 – 3600, default: *180*)
Low path switch timer	_____seconds (0 – 7200, default: *480*)
Medium path switch timer	_____seconds (0 – 7200, default: *240*)
High path switch timer	_____seconds (0 – 7200, default: *120*)
Network path switch timer	_____seconds (0 – 7200, default: *60*)

IP Configuration Sheets

To quickly locate a confiuration sheet:

IP General Parameters

Table 59. IP General Parameters	
Enable forwarding of directed broadcast	□
Enable per packet multipath (for OSPF only)	□
Enable source-routing	□
Enable same subnet	□
Routing table entries in the NN	_____numerical (64 – 5000, default: 768)
Number of destination addresses in the cache per processor	_____numerical (64 – 5000, default: 64)
Reassembly buffer size	_____bytes (2048 – 65535, default: 12288)
IP default ttl value	_____numerical (1 – 255, default: 60)
Router_ID (optional)	_____ (IP dotted notation, default: 0.0.0.0.)

IP Static Routes

Table 60. IP Static Routes	
Configure a Static Route	
Default route	□
Destination network	_____ (IP dotted notation)
Destination mask	_____ (IP dotted notation)
Next hop address Next hop address Next hop address Next hop address	_____ (IP dotted notation) _____ (IP dotted notation) _____ (IP dotted notation) _____ (IP dotted notation)
Cost (administrative distance) Cost (administrative distance) Cost (administrative distance) Cost (administrative distance)	_____numerical (1 – 16, default: 1) _____numerical (1 – 16, default: 1) _____numerical (1 – 16, default: 1) _____numerical (1 – 16, default: 1)

IP Access Controls

Table 61. IP Access Controls	
Configure an Access Control Entry	
Packet filter type	□ *Input (I)* □ Output (O)
Access control type	□ *Permit/Inclusive (I)* □ Deny/Exclusive (E)
Source Network IP address	_____ (IP dotted notation)
Source Mask address	_____ (IP dotted notation)
Destination Network IP address	_____ (IP dotted notation)
Destination Mask address	_____ (IP dotted notation)
Protocol number: From	_____numerical (0 – 255, default: 0)
Protocol number: To	_____numerical (0 – 255, default: 255)
Port number: From	_____numerical (0 – 65535, default: 0)
Port number: To	_____numerical (0 – 65535, default: 65535)

PPP NCP Default Parameters

Table 62. PPP NCP Default Parameters	
Retry timer	_____ ms (200 – 30000, default: *3000*)
Config tries	_____ numerical (1 – 100, default: *20*)
NAK tries	_____ numerical (1 – 100, default: *10*)
Terminate tries	_____ numerical (1 – 100, default: *10*)

IP Filters

Table 63. IP Filters	
Addresses	
IP address:	_____ (IP dotted notation)
Subnet mask:	_____ (IP dotted notation)

BOOTP Forwarding

Table 64. BOOTP Forwarding	
Enable BOOTP forwarding	□
General	
Maximum hops	_____numerical (1 – 16, default: *4*)
Minimum time before forwarding	_____seconds (0 – 255, default: 1)
BOOTP Forwarding Address	
BOOTP server address:	_____ (IP dotted notation)

OSPF Configuration Sheets

To quickly locate a worksheet:

OSPF General/Multicast Parameters

Table 65. OSPF General/Multicast Parameters	
General OPPF Parameters	
Enable OSPF	□
Number of AS external routes	_____numerical (0 – 4000, default: 100)
Number of OSPF routers	_____seconds (0 – 4000, default: 50)
Multicast	
Enable intra-area multicasting	□
Enable inter-area multicasting	□
Group address	_____ (IP dotted notation)

OSPF Imported/Default Routes

Table 66. OSPF Imported/Default Routes	
Import static routes Enable routes import Import RIP routes Import BGP routes Import direct routes Import subnet routes Enable BGP auto-tag generation	□ □ □ □ □ □ □
Compare RIP/static routes to OSPF routes	□ 1 □ **2**
Originate Default Route	
Always originate default route	□
Originate default route if BGP routes available	□
From AS number	_____numerical (1 – 65535, default: 1)
To network IP address	_____ (IP dotted notation)
Originate as type	□ 1 □ **2**
Default route cost	_____numerical (1 – 65535, default: 1)
Forwarding network IP address	_____ (IP dotted notation)

OSPF Area Configuration

Table 67. OSPF Area Configuration	
Configure an OSPF Area	
Area number	_____ (IP dotted notation)
Stub area	□
Authentication (A)	□
Default cost	_____numerical (1 – 65535, default: 1)
Import summaries (IS)	□

OSPF Area Ranges

Table 68. OSPF Area Ranges	
OSPF area: _____	
Configure an Area Range	
IP address:	_____ (IP dotted notation)
IP subnet mask:	_____ (IP dotted notation)
Advertise (A)	□

OSPF/RIP Parameters Per IP Address

Table 69. OSPF/RIP Parameters Per IP Address	
IP Address: _____	
Add OSPF (O)	□
Add RIP (R)	□

OSPF Parameters Per IP Address

Table 70. OSPF Parameters Per IP Address	
IP Address: _____	
General Parameters	
Area number	_____ (IP dotted notation, default: 0.0.0.0)
Authentication key	_____ (alphanumeric characters)
Cost (TOS 0)	_____numerical (1 – 65535, default: 1)
Priority	_____numerical (0 – 255, default: 1)
Timers (Seconds)	
Retransmit interval	_____seconds (1 – 65535, default: 5)
Transmit delay	_____seconds (1 – 65535, default: 1)
Dead interval	_____seconds (2 – 65535, default: 40)
Hello interval	_____seconds (1 – 255, default: 10)
Multicast Externals	
Enable multicast	□
Forward/receive as unicasts	□
IGMP polling interval	_____seconds (1 – 65535, default: 60)
IGMP timeout	_____seconds (1 – 65535, default: 180)
Non-Broadcast	
Non-broadcast	□
Polling interval	_____seconds (1 – 65535, default: 120)

OSPF Neighbors

Table 71. OSPF Neighbors	
IP Address: _____	
Neighbor Addresses	
Neighbor IP address	_____ (IP dotted notation)
Designated router eligible (E)	□

OSPF Virtual Links

Table 72. OSPF Virtual Links	
Configure an OSPF Virtual Link	
Router ID (neighbor IP address)	_____ (IP dotted notation)
Retransmit interval (RI)	_____seconds (1 – 65535, default: 10)
Transmit delay (TD)	_____seconds (1 – 65535, default: 5)
Dead interval (DI)	_____seconds (2 – 65535, default: 180)
Hello interval	_____seconds (1 – 255, default: 30)
Authentication key	_____ (alphanumeric characters)
Link's transit area	_____ (IP dotted notation, default: 0.0.0.0)

RIP Configuration Sheets

RIP General Parameters

Table 73. RIP General Parameters	
Enable RIP	□
Originate Default Route	
Always originate default route	□
Originate default route if BGP routes available	□
From AS number	_____numerical (1 – 65535, default: 1)
To network number	_____ (IP dotted notation)
Originate default route if OSPF routes available	□
Default route cost	_____numerical (1 – 16, default: 1)
Route Acceptance	
Network address	_____ (IP dotted notation)

RIP Parameters Per IP Address

Table 74. RIP Parameters Per IP Address	
IP Address: _____	
Broadcast address style	□ Network □ *Local-wire*
Address fill style	□ Zeroes □ *Ones*
Interface tag (AS number)	_____numerical (1 – 65535, default: 1)
Send RIP routes	□ (default: √)
Send net routes	□ (default: √)
Send subnet routes	□ (default: √)
Send host routes	□ (default: √)
Send static routes	□
Send default routes	□
Receive RIP	□ (default: √)
Receive net routes	□ (default: √)
Receive subnet routes	□ (default: √)
Receive host routes	□ (default: √)
Override static routes	□
Override default routes	□

BGP Configuration Sheets

To quickly locate a worksheet:

BGP General Parameters/Excluded AS

Table 75. BGP General Parameters/Excluded AS	
Enable BGP	□
Send subnet routes	□
AS number	_____numerical (1 – 65535, default: 1)
TCP segment size	_____bytes (28 – 65535, default: 2024)
Excluded Autonomous Systems (AS)	
AS no. to exclude	_____numerical (1 – 65535, default: 1)

BGP Receive Policies

Table 76. BGP Receive Policies	
Configure a Receive Policy	
Policy type	□ *Inclusive (I)* □ Exclusive (E)
Address match (AM)	□ *Exact (E)* □ Range (R)
Network IP address	_____ (IP dotted notation)
Network mask	_____ (IP dotted notation)
IGP metric	_____numerical (1 – 65535, default: 1)
Originating AS number	_____numerical (0 – 65535, default: 0)
Adjacent AS number	_____numerical (0 – 65535, default: 0)

BGP Send Policies

Table 77. BGP Send Policies	
Configure a BGP Send Policy	
Policy type	□ *Inclusive (I)* □ Exclusive (E)
Address match (AM)	□ *Exact (E)* □ Range (R)
Network IP address	_____ (IP dotted notation)
Network mask	_____ (IP dotted notation)
Tag	_____numerical (0 – 65535, default: 0)
Adjacent AS number	_____numerical (0 – 65535, default: 0)

BGP Originate Policies

Table 78. BGP Originate Policies	
Configure a BGP Originate Policy	
Policy type	□ *Inclusive (I)* □ Exclusive (E)
Address match (AM)	□ *Exact (E)* □ Range (R)
Network IP address	_____ (IP dotted notation)
Network mask	_____ (IP dotted notation)
Tag	_____numerical (0 – 65535, default: 0)

BGP Aggregate Routes

Table 79. BGP Aggregate Routes	
Aggregate Routes	
Network IP address	_____ (IP dotted notation)
Network mask	_____ (IP dotted notation)

BGP Neighbors

Table 80. BGP Neighbors	
Configure a BGP Neighbor	
IP address:	_____ (IP dotted notation)
Enable neighbor	□ (default: √)
AS number	_____numerical (1 – 65535, default: 1)
Initialization timer	_____seconds (0 – 65535, default: 12)
Connect retry timer	_____seconds (0 – 65535, default: 120)
Hold timer	_____seconds (0 – 65535, default: 90)
TCP segment size	_____bytes (28 – 65535, default: 2024)

ARP Configuration Sheet

Table 81. ARP Parameters	
General Parameters	
Enable ARP net routing	□
Enable ARP subnet routing	□
Enable auto refresh	□
Refresh timer	_____minutes (0 – 1000, default: 5)
Configure an ARP entry	
Port number	_____ (default: 2080)
Remote IP address	_____ (IP dotted notation)
Remote MAC address	_____ (12 hexadecimal characters)

SNMP Configuration Sheet

Table 82. SNMP Port Identification	
Access type	□ *Read* □ Trapdest
Community Name	_____ (alphanumeric characters)
UDP transport IP network address	_____ (IP dotted notation)
UDP transport Mask address	_____ (IP dotted notation)

Chapter 2. Multiaccess Enclosure Worksheets

These worksheets are provided to help you with your MAE planning before actually entering values into the Controller Configuration and Management (*CCM User's Guide*, SH11-3081) application. Correctly filled-out worksheets for each controller configuration can save you considerable time when you start using the *CCM User's Guide*, SH11-3081.

The worksheets are:

- Quick Configuration Worksheet
- Initial Configuration Worksheet
- Token-Ring Configuration Worksheet
- LLC Configuration Worksheet
- Ethernet Configuration Worksheet
- Point-to-Point Protocol Configuration Worksheet
- Frame Relay Configuration Worksheet
- X.25 Configuration Worksheet
- SDLC Configuration Worksheet
- ISDN Configuration Worksheet.

Quick Configuration Worksheet

Completed by: _____	Date: _____
Multiaccess Enclosure Name: _____	

Adapter Type?	□ Token-Ring	□ Ethernet	□ Other _____
Port (Interface) Number	_____		
Bridging			
Configure **Bridging**?	□ YES	□ NO	
Configure SRT Bridging?	□ YES	□ NO	
Bridge No. (*0–F*)	□ A †	□ Other _____	
Configure Interface ___ (*0–xx*)?	□ YES	□ NO	
Configure Source Routing on this interface?	□ YES	□ NO	
Segment No. (*1–FFF*)	□ A †	□ Other _____	
Save this configuration?	□ YES	□ NO	
Protocols			
Configure **Protocols**?	□ YES	□ NO	
Configure IP?	□ YES	□ NO	
Configure Interface ___ (*0–xx*)?	□ YES	□ NO	
Configure IP on this interface?	□ YES	□ NO	
IP address	_____	Address Mask	_____
Enable Dynamic Routing?	□ YES	□ NO	
Enable OSPF?	□ YES	□ NO	
Save this configuration?	□ YES	□ NO	
IPX			
Configure **IPX**?	□ YES	□ NO	
Configure Interface ___ (*0–xx*)?	□ YES	□ NO	
Configure IPX on this interface?	□ YES	□ NO	
Token-Ring encapsulation (*frame*) type?			
□ TOKEN—RING MSB †			
□ TOKEN—RING LSB			
□ TOKEN—RING_SNAP MSB			
□ TOKEN—RING_SNAP LSB			

Ethernet encapsulation (*frame*) type?				
ETHERNET_8022				
ETHERNET_8023				
ETHERNET_ii				
ETHERNET_SNAP				
Network No. (*1–FFFFFFFE*)	_____			
Enable IPXWAN?	□ YES	□ NO		
Host No. for Serial Lines	_____			
Configure IPXWAN Node ID?	□ YES	□ NO		
Node ID (*1–FFFFFFFE*)	□ 1 †	□ Other _____		
Save this configuration?	□ YES	□ NO		
DNA (DECNet)				
Configure **DNA**?	□ YES	□ NO		
Highest Node No. (*1–1023*)	□ 32 †	□ Other _____		
Router Level	□ Proteon Level1 †	□ Proteon Level2	□ DEC Level1	□ DEC Level2
Highest Area (*1–63*)	□ 63 †	□ Other _____		
Node address	_____	Address Mask	_____	
Configure DNA on Interface ___?	□ YES	□ NO		
Max Routers (*1–33*)?	□ 16 †	□ Other _____		
Save this configuration?	□ YES	□ NO		
Note: † = default				

Initial Configuration Worksheet

Table 83. Initial Configuration Worksheet

□ Add	□ Device	□ Token-Ring	Slot #: _____ Port #: _____
		□ Ethernet	Slot #: _____ Port #: _____
		□ ATM	Slot #: _____
		□ ISDN (T1/J1)	Slot #: _____
		□ ISDN (E1)	Slot #: _____
		□ X.21	Slot #: _____ Port #: _____
		□ V.35/V.36	Slot #: _____ Port #: _____
		□ EIA-232E/V.24	Slot #: _____ Port #: _____
		□ Dial Circuits	

Token-Ring Configuration Worksheet

□ Accept all defaults

Table 84. Token-Ring Configuration Worksheet		
□ Frame	□ Token-Ring □ Token-Ring_SNAP	□ MSB □ LSB □ MSB □ LSB
□ Media	□ Shielded † □ Unshielded	
□ Packet-Size	□ 4 Mbps □ 16 Mbps	□ 2052 † □ 4399 □ 1470 □ 2052 □ 4399 □ 8130 □ 11407 □ 17749
□ Set	□ Physical-address □ RIF-Timer	□ _____ □ 120 † □ _____
□ Source-Routing	□ Enable † □ Disable	
□ Speed	□ 4 Mbps † □ _____	
□ LLC Config	□ Yes □ No	

LLC Configuration Worksheet

□ Accept all defaults

Table 85. LLC Configuration Worksheet

□ Set	□ n2-max-retry	□ max-retry value	□ 8 † □ _____
	□ n3-frames_rcvd-before-ack	□ Number I-frames received before sending Ack	□ 1 † □ _____
	□ rw-receive-window	□ Receive window	□ 2 † □ _____
	□ t1-reply-timer	□ Reply timer	□ 1 † □ _____
	□ t2-receive-ack-timer	□ Receive Ack timer	□ 1 † □ _____
	□ ti-inactivity-timer	□ Inactivity timer	□ 30 † □ _____
	□ tw-transmit window	□ Transmit window	□ 2 † □ _____
	□ nw-acks-to-inc-ww	□ Acks needed to increment Ww	□ 1 † □ _____

Ethernet Configuration Worksheet

□ Accept all defaults

Table 86. Ethernet Configuration Worksheet	
□ ConnectorType	□ BNC (10BASE2) □ RJ-45 (10BASE-T)
□ Frame	□ Ethernet_11 □ Ethernet_8022 □ Ethernet_8023 □ Ethernet_SNAP
□ IP-Encapsulation	□ Ethernet (e) □ IEEE 802.3 (i)

Point-to-Point Protocol Configuration Worksheet

□ Accept all defaults

Table 87 (Page 1 of 2). Point-to-Point Protocol Configuration Worksheet

□ Disable	□ ccp □ chap □ spap □ dial-in-access □ lower-dtr □ pap		
□ Enable	□ ccp □ chap □ spap □ dial-in-access □ lower-dtr □ pap		
□ Set bcp	□ Tinygram Compression	□ No † □ Yes	
□ Set ccp options	□ STAC: # histories □ STAC: check mode	□ 1 † □ 0 □ 3 = Seq. † □ 0 = none □ 1 = LCB □ 2 = CRC	
□ Set dial-in-access parameters	□ Number of minutes online allotted □ Default IP address □ Enable ARP-SUBNET-ROUTING?	□ 0 = unlimited † □ _____ □ 0.0.0.0 † □ _____ □ Yes † □ No	

Table 87 (Page 2 of 2). Point-to-Point Protocol Configuration Worksheet

□ Set	□ HDLC cable	□ RS-232 DTE □ RS-232 DCE □ v.35 DCE □ v.35 DTE □ v.36 □ x.21 DCE □ x.21 DTE	
	□ HDLC clocking	□ external	
	□ HDLC encoding	□ internal	
	□ HDLC idle	□ NRZ †	
	□ HDLC mode	□ NRZ1	
	□ HDLC speed (2400–2048000)	□ Flag †	
		□ Mark	
	□ HDLC transmit-delay	□ Asynchronous	
	□ IPCP	□ Synchronous	
		□ _____	
		□ 0 †	
		□ _____	
		□ IP compression	
		□ Number of slots	□ Yes †
		□ Send our IP address	□ No
		□ Request their IP address	□ 16 † □ _____
	□ LCP options	□ Maximum Receive Unit	□ Yes † □ No
		□ Magic Number	□ Yes †
		□ Protocol Field Compression	□ No □ 2048 †
		□ Addr/Cntl Field Compression	□ _____ □ Yes †
	□ LCP parameters	□ Config tries	□ No
		□ NAK tries	□ No †
		□ Terminate tries	□ Yes
		□ Retry timer	□ No † □ Yes □ 20 † □ _____ □ 10 † □ _____ □ 10 † □ _____ □ 3000 † □ _____
□ Set (cont.)	□ name _____	□ Enter Password	□ _____
	□ NCP parameters	□ Enter Password again	□ _____ □ 20 †
		□ Config tries	□ _____
		□ NAK tries	□ 10 †
		□ Terminate tries	□ _____
		□ Retry timer	□ 10 † □ _____ □ 3000 † □ _____

Frame Relay Configuration Worksheet

□ Accept all defaults

Table 88 (Page 1 of 2). Frame Relay Configuration Worksheet

□ Add	□ Permanent-Virtual-Circuit	□ Circuit Number □ Committed Information Rate in bps □ Committed Burst Size in bits □ Excess Burst Size in bits □ Assign Circuit Name □ Is circuit required for interface operation □ Does the circuit belong to a required PVC group □ What is the group name □ Protocol name or number □ IP Address □ Host Number (in hex) □ Network Number □ Node Number □ Node Address □ Circuit Number □ PVC group name	□ 16 † □ _____ □ 64000 † □ _____ □ 64000 † □ _____ □ 0 † □ _____ □ _____ □ No † □ Yes □ No † □ Yes □ _____ □ _____ □ _____ □ _____ □ _____ □ _____ □ 0.0 † □ _____ □ 16 † □ _____ □ _____
	□ Protocol-Address		
	□ PVC-Group		
□ Change	□ Permanent-Virtual-Circuit □ Protocol-Address □ PVC-Group		
□ Disable	□ Cir-Monitor □ Congestion-Monitor □ Dn-Length-Field □ LMI □ Multicast-Emulation □ No-PVC □ Orphan-Circuits □ Protocol-Broadcast		

Table 88 (Page 2 of 2). Frame Relay Configuration Worksheet

□ Enable	□ Cir-Monitor □ Congestion-Monitor □ Dn-Length-Field □ LMI □ Multicast-Emulation □ No-PVC □ Orphan-Circuits □ Protocol-Broadcast		
□ Remove	□ Permanent-Virtual-Circuit □ Protocol-Address □ PVC-Group	□ Circuit Number □ Protocol name or number □ PVC group name	□ _____ □ _____ □ _____
□ Set	□ cable x21 □ clocking □ encoding □ frame-size □ idle □ ir-adjustment □ line-speed □ lmi-type □ n1-parameter □ n2-parameter □ n3-parameter □ p1-parameter □ t1-parameter □ transmit-delay	□ DTE □ DCE □ external □ internal □ NRZ † □ NRZ1 □ 2048 † □ _____ □ flag † □ mark □ IR adjustment % decrement □ Minimum IR as % of CIR □ Line speed □ ANSI □ REV1 □ CCITT □ Parameter N1 □ Parameter N2 □ Parameter N3 □ Parameter P1 □ Parameter T1 □ Transmit Delay Counter	□ 25 † □ _____ □ 25 † □ _____ □ 64000 † □ _____ □ 6 † □ _____ □ 3 † □ _____ □ 4 † □ _____ □ 64 † □ _____ □ 10 † □ _____ □ 0 † □ _____

X.25 Configuration Worksheet

□ Accept all defaults

Table 89 (Page 1 of 4). X.25 Configuration Worksheet

□ Add	□ Address	□ Protocol	□ IP †
		□ Enc Priority 1	□ IPX
		□ Enc Priority 2	□ CC
		□ Enc Priority 3	□ SNAP
		□ CUD Field Usage	□ NULL
		□ IP Address	□ CC
		□ IPX Host Number (in hex)	□ SNAP
		□ X.25 Address	□ NULL
		□ Protocol	□ CC
		□ Current HTF address	□ SNAP
		□ Protocol	□ NULL
			□ Standard †
			□ Proprietary
			□ _____
			□ _____
			□ _____
			□ IP †
		□ Window size	□ _____
		□ Default Packet Size	□ _____
		□ Maximum Packet Size	□ IP †
		□ Circuit Idle Time	□ XTP
	□ htf-address	□ Maximum Vcs	□ DECnet
	□ protocol		□ IPX
			□ Banyan VINES
			□ 2 †
			□ _____
			□ 128 †
			□ _____
			□ 128 †
			□ _____
			□ 30 †
			□ _____
			□ 10 †
			□ _____
□ Add (cont.)	□ pvc	□ Protocol	□ IP †
			□ XTP
			□ DECnet
			□ IPX
			□ Banyan VINES
			□ CC
		□ Enc Type	□ SNAP
		□ Packet Channel	□ NULL
		□ Destination X.25 Address	□ _____
		□ Window Size	□ _____
		□ Packet Size	□ 2 †
			□ _____
			□ 128 †
			□ _____

Table 89 (Page 2 of 4). X.25 Configuration Worksheet

□ Change	□ Address	□ Protocol	□ IP †
		□ Enc Priority 1	□ IPX
		□ Enc Priority 2	□ CC
		□ Enc Priority 3	□ SNAP
		□ CUD Field Usage	□ NULL
		□ IP Address	□ CC
		□ IPX Host Number (in hex)	□ SNAP
		□ X.25 Address	□ NULL
		□ Protocol	□ CC
		□ Change HTF address	□ SNAP
		□ New HTF address	□ NULL
		□ Protocol	□ Standard †
			□ Proprietary
			□ _____
			□ _____
			□ _____
			□ IP †
			□ _____
		□ Window size	□ _____
		□ Default Packet Size	□ _____
		□ Maximum Packet Size	□ IP †
	□ htf-address	□ Circuit Idle Time	□ XTP
	□ protocol	□ Maximum Vcs	□ DECnet
		□ Protocol	□ IPX
			*□ Banyan VINES
			□ _____
			□ _____
			□ _____
			□ _____
		□ Packet Channel	□ _____
		□ Destination X.25 Address	□ IP †
		□ Window Size	□ XTP
		□ Packet Size	□ DECnet
	□ pvc		□ IPX
			□ Banyan VINES
			□ _____
			□ _____
			□ _____
			□ _____

Table 89 (Page 3 of 4). X.25 Configuration Worksheet			
□ Delete	□ Address □ Protocol □ PVC	□ Protocol □ IP Address □ IPX Host Number (in hex) □ Protocol □ Protocol □ Destination X.25 Address *	□ IP † □ IPX □ _____ □ _____ □ IP † □ XTP □ DECnet □ IPX □ Banyan VINES □ IP † □ XTP □ DECnet □ IPX □ Banyan VINES □ _____
□ Disable	□ ddn-address-translations □ incoming-calls-barred □ lower-dtr □ outgoing-calls-barred		
□ Enable	□ ddn-address-translations □ incoming-calls-barred □ lower-dtr □ outgoing-calls-barred		
□ National Disable	□ accept-reverse-charges □ ccitt □ flow-control-negotiation □ frame-ext-seq-mode □ osi-84 □ osi-88 □ packet-ext-seq-mode □ request-reverse-charges □ suppress-calling-addresses □ throughput-class-negotiation		
□ National Enable	□ accept-reverse-charges □ ccitt □ flow-control-negotiation □ frame-ext-seq-mode □ osi-84 □ osi-88 □ packet-ext-seq-mode □ request-reverse-charges □ suppress-calling-addresses □ throughput-class-negotiation		

Table 89 (Page 4 of 4). X.25 Configuration Worksheet

□ National Restore	□ all □ accept-reverse-charges □ call-req □ ccitt □ clear-req □ disconnect-procedure... □ dp-timer □ flow-control-negotiation □ frame-ext-seq-mode □ frame-window-size □ network-type □ n2-timeouts □ osi-84 □ osi-88 *□ packet-size... □ packet-ext-seq-mode □ request-reverse-charges □ reset □ restart □ standard-version □ suppress-calling-addresses □ throughput-class-negotiation *□ t1-timer □ t2-timer		
□ National Set	□ call-req □ clear-req □ disconnect-procedure □ dp-timer □ frame-window-size □ network-type □ n2-timeouts □ packet-size □ reset □ restart □ standard-version □ t1-timer □ t2-timer		
□ Set	□ address □ cable □ calls-out □ clocking □ default-window-size □ encoding □ equipment-type □ htf addr □ inter-frame-delay □ mtu □ national-personality □ pvc □ speed □ svc □ throughput-class □ vc-idle		

SDLC Configuration Worksheet

□ Accept all defaults

Table 90. SDLC Configuration Worksheet			
□ Add	□ Station	□ Enter station address □ Enter station name □ Include station in group poll list □ Enter max packet size □ Enter receive window □ Enter transmit window	□ _____ □ _____ □ Yes † □ No □ _____ □ _____ □ _____
□ Delete	□ Station	□ Name or address	□ _____
□ Disable	□ Link □ Station	□ Name or address	□ _____
□ Enable	□ Link □ Station	□ Name or address	□ _____
□ Set	□ link cable □ link clocking □ link duplex □ link encoding □ link frame-size □ link group poll □ link idle □ link inactivity □ link inter-frame delay □ link modulo □ link name □ link poll □ link role □ link rts-hold □ link snrm □ link spee □ link type □ link xid/test □ station address		

ISDN Configuration Worksheet

□ Accept all defaults

Table 91. ISDN Configuration Worksheet			
□ Add	□ accounting-entry	□ _____	
□ Disable	□ PS1		
□ Enable	□ PS1		
□ Remove	□ accounting-entry	□ _____	
□ Set	□ e1-identifier	□ _____	
	□ frame-size	□ 1024 †	
	□ local-address-name	□ 2048	
	□ multipoint-selection	□ 4096	
	□ retries-call-address	□ _____	
	□ service-profile-id	□ pp †	
		□ mp	
		□ 2 †	
		□ _____	
		□ Enter B-channel Number	□ 1 †
		□ Enter Service Profile ID	□ _____
	□ timeout-call-address	□ 0 †	□ 123 †
	□ switch-variant	□ _____	□ _____
		□ net3	
		□ ins64	
		□ vn3	
		□ 5ess	
		□ dms100	
		□ usni1	
		□ usni2	
	□ dn0	□ _____	
	□ dn1	□ _____	
	□ t1	□ _____	
	□ tei	□ Auto †	
		□ None	
		□ _____	

Tell Us What You Think!

3745 Communication Controller Models A
3746 Nways Multiprotocol Controller
Models 900 and 950
Planning Series:

CCM Planning Worksheets

Publication No.

We hope you find this publication useful, readable, and technically accurate, but only you can tell us! Your comments and suggestions will help us improve our technical publications. Please take a few minutes to let us know what you think by completing this form. If you are in the USA, you can mail this form postage free or fax it to us at 1-800-253-3520. Elsewhere, your local IBM branch office or representative will forward your comments or you may mail them directly to us.

Overall, how satisfied are you with the information in this book?	Satisfied	Dissatisfied
	☐	☐

How satisfied are you that the information in this book is:	Satisfied	Dissatisfied
Accurate	☐	☐
Complete	☐	☐
Easy to find	☐	☐
Easy to understand	☐	☐
Well organized	☐	☐
Applicable to your task	☐	☐

Specific comments or problems:

Please tell us how we can improve this book:

Thank you for your comments. If you would like a reply, provide the necessary information below.

Name

Address

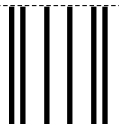
Company or Organization

Phone No.

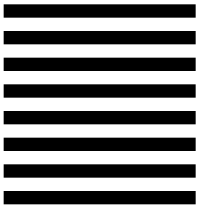
Tell Us What You Think!

Cut or Fold
Along Line

Fold and Tape **Please do not staple** Fold and Tape



NO POSTAGE
NECESSARY
IF MAILED IN THE
UNITED STATES



BUSINESS REPLY MAIL

FIRST-CLASS MAIL PERMIT NO. 40 ARMONK, NEW YORK

POSTAGE WILL BE PAID BY ADDRESSEE

Design & Information Development
Dept. CGF/Bldg. 656
International Business Machines Corporation
PO BOX 12195
RESEARCH TRIANGLE PARK NC 27709-9990

Fold and Tape **Please do not staple** Fold and Tape

Cut or Fold
Along Line

Printed in the United States of America
on recycled paper containing 10%
recovered post-consumer fiber.