

General Index

GENERAL INFORMATION	1.1-1
Introduction	1.1-1
System Architecture.....	1.1-2
Local Control	1.1-2
Remote Login	1.1-3
Operational Features	1.1-4
Login	1.1-4
General Parameters Configuration	1.1-4
Unit Management.....	1.1-5
Port Equipment and Configuration.....	1.1-5
Remote Control Parameters Configuration.....	1.1-5
Alarm Parameters Setting	1.1-5
Protection Configuration.....	1.1-6
Traffic Management.....	1.1-6
Synchronism Management	1.1-6
ACTIVATING THE CONTROL APPLICATION	1.2-1
Connection of Personal Computer to ADM-1	1.2-1
Software Installation	1.2-3
Installing the Local Operator.....	1.2-3
Installing the Online Help files	1.2-7
Installing the Configuration File "download.ini"	1.2-10
Access the Control Application Software	1.2-11
Configuration of Communication Parameters	1.2-12
Login Access.....	1.2-13
Main Window	1.2-15
Password Management.....	1.2-16
Log out.....	1.2-17
Exit	1.2-17
MAIN FUNCTIONS	1.3-1
Working Area.....	1.3-1
The Menu Bar and Menus	1.3-1
The Graphical Area	1.3-3
The Connection Status Indication.....	1.3-7
The Serial Port Button Status Indication	1.3-7
The Tool Bar.....	1.3-8
Alarm and Event Monitor Window.....	1.3-12
VIEW OPTIONS	1.4-1
Toolbar	1.4-1
Status Bar	1.4-1
Zoom Fault Window	1.4-1
Refresh.....	1.4-1
CONFIGURATION	1.5-1
NE Configuration.....	1.5-1
Configuration of Unit	1.5-3

Protection Role.....	1.5-3
MSP Protection.....	1.5-5
MSP Switch Operations.....	1.5-8
MSP Protection Switch (Event Details).....	1.5-9
Equipment Protection.....	1.5-10
Equipment Protection Switch Operations.....	1.5-12
Eqp Protection Switch (Event Details).....	1.5-14
Protection Parameters.....	1.5-15
NE Log.....	1.5-16
Event Report.....	1.5-18
LC Log.....	1.5-19
Alarm Parameters.....	1.5-19
Alarm Attributes.....	1.5-22
Summary LEDs Status.....	1.5-23
Abnormal Condition.....	1.5-24
Rack Lamp Configuration.....	1.5-25
Ground Contacts.....	1.5-26
Parking Status.....	1.5-28
Synchronisation.....	1.5-29
Equipping Synchronisation Sources.....	1.5-29
System Synchronisation Sources.....	1.5-35
System Synchronisation Sources Switch Operations.....	1.5-38
Sync switch -> System Sync (Event Details).....	1.5-40
External Synchronisation Outputs.....	1.5-41
External Synchronisation Output Switch Operations.....	1.5-45
Sync switch -> External Sync (Event Details).....	1.5-46
QL Table Entry.....	1.5-47
Cross Connections.....	1.5-48
Multiply SDH Frame.....	1.5-50
Unidirectional Cross Connection.....	1.5-52
Bidirectional Cross Connection.....	1.5-53
Broadcast Cross Connection.....	1.5-54
Loopback Cross Connection.....	1.5-56
Split Access Cross Connection.....	1.5-57
Monitor Cross Connection.....	1.5-58
Dropped Cross Connections.....	1.5-59
Dropped Cross Connection Switch Operations.....	1.5-61
Path Prot. Switch (Event Details).....	1.5-63
VC-2n-C Cross Connection.....	1.5-64
Administrative State.....	1.5-65
Busy Channel Indication.....	1.5-65
Deletion of a Cross Connection.....	1.5-66
SNC Protection.....	1.5-67
SNCP Switch Operations.....	1.5-70
Path Prot. Switch SNC (Event Details).....	1.5-71
SOH Bytes Configuration.....	1.5-72

OSI Parameters Setup	1.5-73
OSI Parameters Get	1.5-75
MAINTENANCE.....	1.6-1
NE General Parameters	1.6-1
DCC Configuration.....	1.6-2
Network Configuration.....	1.6-4
Software Info.....	1.6-8
Inventory Data.....	1.6-9
Performance Parameters.....	1.6-10
Exception Report Enable.....	1.6-11
Performance Data Collection	1.6-12
Performance Exception Thresholds	1.6-15
Software Download	1.6-26
Database Upload.....	1.6-27
Database Download.....	1.6-28
MOST Switch	1.6-29
Serial Port Configuration.....	1.6-29
Language Configuration.....	1.6-30
Local Controller Protocol Version.....	1.6-30
Database Clear	1.6-31
Local Controller Software Version.....	1.6-31
UNIT FUNCTIONS	1.7-1
Unit Active Alarms.....	1.7-2
Unit Info	1.7-4
Unit Software Info	1.7-5
Unit Inventory Data	1.7-6
Unit Creation.....	1.7-7
Unit Deletion.....	1.7-8
Ports Equipment.....	1.7-8
Unit Configuration.....	1.7-9
STM-1 Configuration	1.7-9
STM-1 Port Configuration.....	1.7-10
STM-1 Path Information Configuration.....	1.7-14
STM-1 Unit Configuration	1.7-16
STM-1 Channel Parameters Configuration	1.7-18
STM-1 Optical Parameters Configuration	1.7-20
STM-1 SOH Reading.....	1.7-21
2Mbit/s Configuration	1.7-22
2Mbit/s Port Configuration.....	1.7-23
2Mbit/s Path Information Configuration.....	1.7-25
2Mbit/s Unit Configuration.....	1.7-27
34-45Mbit/s Configuration.....	1.7-28
34-45Mbit/s Port Configuration	1.7-29
34-45Mbit/s Path Information Configuration	1.7-31
34-45Mbit/s Unit Configuration.....	1.7-33
140Mbit/s Configuration	1.7-34

140Mbit/s Port Configuration.....	1.7-35
140Mbit/s Path Information Configuration.....	1.7-37
140Mbit/s Unit Configuration	1.7-39
Auxiliary Unit Configuration	1.7-40
Auxiliary General Configuration	1.7-40
EOW1 and EOW2 Configuration	1.7-41
G703 Channel Configuration.....	1.7-43
V11 Channel Configuration.....	1.7-45
Loopback List.....	1.7-46
Diagnostic.....	1.7-46
Software Reset	1.7-47
Software Restart.....	1.7-47
Bank Switch	1.7-47
Bank Validation	1.7-48
Alarm Monitoring.....	1.7-48
Optical Info	1.7-50
CONFIGURATION OF ADM-1 OSI PROTOCOL	1.8-1
Changing the OSI Protocol Parameters	1.8-2
Message: Configuration of a DCC Profile (template file: s_dccp0)	1.8-3
Message: Configuration of Connection-less Network Service (template file: s_clns).....	1.8-7
Message: Configuration of Reachable Address Prefix (template file: s_addrap).....	1.8-11
Message: Delete of Reachable Address Prefix (template file: s_delrap).....	1.8-12
Message: Configuration of Ethernet Channels (template file: s_eth)	1.8-13
Message: Configuration of Transport Module (template file: s_tp4).....	1.8-15
Message: Restart OSI Protocol Stack (template file: s_osirst)	1.8-18
Message: Update OSI protocol stack (template file: s_osiupt).....	1.8-18
Example of Static Routing Configuration using the OSI Setup Option	1.8-19
FAULT DETECTION PROCEDURE	1.9-1
SPI - Signal Physical Interface Alarms.....	1.9-1
LaserPwrOut (SPI)	1.9-1
LaserBiasOut (SPI).....	1.9-1
ALSDisabled (SPI).....	1.9-2
LOS (SPI).....	1.9-2
ScramblerFail (SPI).....	1.9-2
DescramblerFail (SPI).....	1.9-3
TxClockFail (SPI)	1.9-3
RxClockFail (SPI)	1.9-3
RST - Regenerator Section Terminal.....	1.9-4
LOF (RST).....	1.9-4
RS-TIM (RST).....	1.9-4
DCCrLAPDDisc (RST).....	1.9-5
MST - Multiplex Section Termination Alarms.....	1.9-5
MS-AIS (MST).....	1.9-5
MS-RDI (MST)	1.9-5
MS-EXC (MST).....	1.9-6
MS-DEG (MST).....	1.9-6

DCCmLAPDDisconnected (MST).....	1.9-6
MSP Alarms - Multiplex Section Protection	1.9-7
MSP-INV (MSP).....	1.9-7
MSP-PAM (MSP).....	1.9-7
MSA Alarms - Multiplex Section Adaptation	1.9-8
AU-LOP (MSA).....	1.9-8
AU-AIS (MSA).....	1.9-8
TxRejustFail (MSA).....	1.9-9
RxRejustFail (MSA)	1.9-9
HPT Alarms - Higher order Path overhead termination	1.9-10
HP-TIM (HPT).....	1.9-10
HP-PLM (HPT).....	1.9-10
HP-RDI (HPT).....	1.9-10
HP-DEG (HPT).....	1.9-11
HP-EXC (HPT).....	1.9-11
HP-UNEQ (HPT).....	1.9-11
HPA_3 - Higher order Path Adaptation	1.9-12
TU-LOP (HPA_3).....	1.9-12
TU-AIS (HPA_3)	1.9-12
LPOM_3 - Lower order Path Overhead	1.9-13
LP-TIM (LPOM_3).....	1.9-13
LP-RDI (LPOM_3).....	1.9-13
LPOM-DEG (LPOM_3).....	1.9-14
LPOM-EXC (LPOM_3).....	1.9-14
LP-UNEQ (LPOM_3).....	1.9-14
HPA_2 - Higher order Path Adaptation	1.9-15
HP-LOM (HPA_2).....	1.9-15
TU-LOP (HPA_2).....	1.9-15
TU-AIS (HPA_2).....	1.9-16
LPOM_2 - Lower order Path Overhead	1.9-16
LP-TIM (LPOM_2).....	1.9-16
LP-RDI (LPOM_2)	1.9-17
LPOM-DEG (LPOM_2).....	1.9-17
LPOM-EXC (LPOM_2).....	1.9-18
LP-UNEQ (LPOM_2).....	1.9-18
HPA_12 - Higher order Path Adaptation	1.9-19
TU-LOP (HPA_12).....	1.9-19
TU-AIS (HPA_12).....	1.9-19
LPOM_12 - Lower order Path Overhead Monitor.....	1.9-20
LP-TIM (LPOM_12).....	1.9-20
LP-RDI (LPOM_12).....	1.9-20
LPOM-DEG (LPOM_12).....	1.9-21
LPOM-EXC (LPOM_12).....	1.9-21
LP-UNEQ (LPOM_12).....	1.9-21
PPI_140Mb - 140Mbit/s PDH Physical Interface Alarms.....	1.9-22
PDH-LOS (PPI_140Mb).....	1.9-22

PDH-AIS (PPI_140Mb).....	1.9-22
PDH-EXC (PPI_140Mb).....	1.9-23
PDH-DEG (PPI_140Mb).....	1.9-23
PDH-LOF (PPI_140Mb).....	1.9-24
PDH-RDI (PPI_140Mb).....	1.9-24
TxPulseLoss (PPI_140Mb).....	1.9-24
TxBufferCont (PPI_140Mb).....	1.9-25
RxBufferCont (PPI_140Mb).....	1.9-25
PPI_34_45 - 34 and 45Mbit/s PDH Physical Interface Alarms	1.9-26
PDH-LOS (PPI_34_45).....	1.9-26
PDH-AIS (PPI_34_45).....	1.9-26
PDH-EXC (PPI_34_45).....	1.9-27
PDH-DEG (PPI_34_45).....	1.9-27
PDH-LOF (PPI_34_45).....	1.9-28
PDH-RDI (PPI_34_45).....	1.9-28
TxPulseLoss (PPI_34_45).....	1.9-28
TxBufferCont (PPI_34_45).....	1.9-29
RxBufferCont (PPI_34_45).....	1.9-29
LPT_VC-3 - Lower order Path Termination.....	1.9-30
LP-PLM (LPT_VC-3).....	1.9-30
LP-RDI (LPOM_VC-3).....	1.9-30
LPOM-DEG (LPOM_VC-3).....	1.9-31
LP-TIM (LPOM_VC-3).....	1.9-31
LPOM-EXC (LPOM_VC-3).....	1.9-31
LP-UNEQ (LPOM_VC-3).....	1.9-32
PPI_2Mb-1.5 and 2Mbit/s PDH Physical Interface Alarms.....	1.9-32
PDH-LOS (PPI_2Mb).....	1.9-32
PDH-AIS (PPI_2Mb).....	1.9-33
PDH-EXC (PPI_2Mb).....	1.9-33
PDH-DEG (PPI_2Mb).....	1.9-33
PDH-LOF (PPI_2Mb).....	1.9-34
PDH-RDI (PPI_2Mb).....	1.9-34
TxPulseLoss (PPI_2Mb).....	1.9-34
TxBufferCont (PPI_2Mb).....	1.9-35
RxBufferCont (PPI_2Mb).....	1.9-35
LPT_VC-12 - Lower order Path Termination.....	1.9-36
LP-PLM (LPT_VC-12).....	1.9-36
LP-RDI (LPOM_VC-12).....	1.9-36
LPOM-DEG (LPOM_VC-12).....	1.9-37
LP-TIM (LPOM_VC-12).....	1.9-37
LPOM-EXC (LPOM_VC-12).....	1.9-37
LP-UNEQ (LPOM_VC-12).....	1.9-38
LPT_VC-2 - Lower order Path Termination.....	1.9-38
LP-PLM (LPT_VC-2).....	1.9-38
LP-RDI (LPOM_VC-2).....	1.9-38
LPOM-DEG (LPOM_VC-2).....	1.9-39

LP-TIM (LPOM_VC-2).....	1.9-39
LPOM-EXC (LPOM_VC-2).....	1.9-40
LP-UNEQ (LPOM_VC-2).....	1.9-40
PORT - Unit Alarms.....	1.9-40
Missing (PORT).....	1.9-40
Wrong (PORT).....	1.9-41
Fail (PORT).....	1.9-41
Comm (PORT).....	1.9-41
MatrixAFail (PORT).....	1.9-41
MatrixBFail (PORT).....	1.9-42
TimexAFail (PORT).....	1.9-42
TimexBFail (PORT).....	1.9-42
TxOHBusFail (PORT).....	1.9-43
Sync Alarm.....	1.9-43
OutOfFreq (Sync).....	1.9-43
QL Invalid (Sync).....	1.9-43
SystemSyncFail (Sync).....	1.9-44
ExtOutSyncFail (Sync).....	1.9-44
SyncSrcFail (Sync).....	1.9-44
Power Alarm.....	1.9-45
Or Battery (Power).....	1.9-45
Ground Contacts Alarms.....	1.9-45
GC_n.....	1.9-45
Unit Internal Fault Trouble-Shooting Procedure.....	1.9-46
Bit Error Rate Trouble-Shooting Procedure.....	1.9-47
Bit error rate on the STM-1 optical signal (MS-EXC/DEG).....	1.9-47
Bit error rate on the STM-1 electrical signal (MS- EXC/DEG).....	1.9-48
Bit error rate on the VC payload (PPI-EXC/DEG).....	1.9-49
ERROR MESSAGES.....	1.10-1
Database Failure.....	1.10-1
Database Busy.....	1.10-1
Database Locked.....	1.10-1
Syntax Error.....	1.10-1
Unknown Message.....	1.10-1
Generic Error.....	1.10-1
Invalid Parameter.....	1.10-2
Invalid Value.....	1.10-2
Invalid String.....	1.10-2
Operation Not Allowed.....	1.10-2
Data Missing.....	1.10-2
No Resource.....	1.10-2
Wrong Unit Identifier.....	1.10-2
Unit Equipped.....	1.10-2
Unit Not Equipped.....	1.10-3
NE Not Equipped.....	1.10-3
NE Single Equipped.....	1.10-3

Ne Regenerator Equipped	1.10-3
Wrong Unit Type	1.10-3
In Use Unit	1.10-3
Wrong Protection Role.....	1.10-3
Wrong Path Protection Role.....	1.10-4
Wrong Protection Type	1.10-4
Wrong Worker Resource.....	1.10-4
Wrong Protection Resource	1.10-4
Wrong Protection Schema.....	1.10-4
No Protection Config.....	1.10-4
Invalid Configuration.....	1.10-4
Wrong Port Identifier.....	1.10-5
Port Equipped.....	1.10-5
Port Not Equipped	1.10-5
Wrong Channel Identifier.....	1.10-5
Connected Channel.....	1.10-5
Channel Not Connected.....	1.10-5
Channel Mismatch.....	1.10-5
Invalid Channels Order.....	1.10-6
Connection Locked.....	1.10-6
Wrong Alarm Category	1.10-6
Wrong Alarm Source.....	1.10-6
Not Providing Service	1.10-6
Quality Level Priority Duplicate	1.10-6
Quality Level Priority Undefined.....	1.10-6
Sync Source Not Equipped	1.10-6
Sync Source In Use.....	1.10-7
Port In Use for Sync.....	1.10-7
Port In Use for DCC	1.10-7
Quality Level In Use.....	1.10-7
Sync Not Configured.....	1.10-7
DCC Not Configured.....	1.10-7
Maximum number of DCC already configured	1.10-7
DCC Parameters already configured	1.10-7
DCCr_m already configured	1.10-8
RAP Already Equipped.....	1.10-8
RAP Not Equipped.....	1.10-8
Already Enabled.....	1.10-8
Already Disabled	1.10-8
No Records Enough.....	1.10-8
Performance Not Enabled	1.10-8
No Data	1.10-8
Wrong Monitored Entity	1.10-9
Parking On	1.10-9
Data Non Available	1.10-9
DBQ Empty.....	1.10-9

Invalid Access Rights	1.10-9
Not Implemented	1.10-9
Synchronization Source Already Equipped.....	1.10-9
Channel In Use For Test.....	1.10-9
Wrong Channel For Test	1.10-10
Erase Error.....	1.10-10
File Type Error.....	1.10-10
Write Failure	1.10-10
Wrong Checksum	1.10-10
Header Error.....	1.10-10
Download Running.....	1.10-10
Wrong Sequence.....	1.10-10
Download In Progress	1.10-11
Download Not In Progress	1.10-11
Wrong Units List	1.10-11
Unit Not Present.....	1.10-11
Bank Failure	1.10-11
No Boot Bank	1.10-11
Invalid Software Code	1.10-11
Download Abort	1.10-11
Most B Master.....	1.10-12
Alignment in Progress	1.10-12
Too many Ring Auxiliary Cross Connections	1.10-12
Too many Auxiliary ByPass Cross Connection.....	1.10-12
Invalid OH Bus	1.10-12
Invalid SOH Byte.....	1.10-12
SOH Byte Already in Use	1.10-12
Invalid Ring CAI.....	1.10-12
OH Byte Reserved	1.10-13
OH Byte in Use.....	1.10-13
Invalid Channel Structure.....	1.10-13
Cannot Be Driven	1.10-13
Invalid POH Byte.....	1.10-13
DATA DICTIONARY	1.11-1
Act Bank.....	1.11-1
Alarm Source (Source).....	1.11-1
Alarm Type	1.11-1
Availability State (Av. State)	1.11-1
Bank 1 Sw	1.11-2
Bank 2 Sw	1.11-2
Boot Eprom.....	1.11-2
Category	1.11-2
Command Status / Command State.....	1.11-2
Configuration State	1.11-3
Cnf. State.....	1.11-3
DCC Type	1.11-3

Event Type	1.11-3
LAPD Side	1.11-4
Loopbacks Num.....	1.11-4
Mode.....	1.11-5
Monitoring.....	1.11-5
MS - Protection Role	1.11-5
Num	1.11-5
Operative State / Op. State	1.11-5
Part Number	1.11-6
PDH Traff. Rate.....	1.11-6
PL Expected (hex)	1.11-7
PL Received (hex)	1.11-8
Priority.....	1.11-9
Probable Cause.....	1.11-9
Profile	1.11-9
Protected By / Protecting.....	1.11-9
Prot.Role.....	1.11-10
Protection State / MSP Condition Type	1.11-10
Protection Type / Prot. Type.....	1.11-12
Protection Unit.....	1.11-13
QL Forced	1.11-13
QL Rx	1.11-13
QL Rx Enabled	1.11-13
Received Mode	1.11-14
Slot.....	1.11-14
Source / Active Source	1.11-15
Standby State.....	1.11-15
State	1.11-15
Status	1.11-16
Unit Id.....	1.11-17
Unit Type.....	1.11-17
Worker Unit	1.11-18
HOW TO	1.12-1
... Configure the System	1.12-2
Configure the Network Element.....	1.12-2
Create the Units	1.12-2
Assign Protection Roles	1.12-2
Equip Traffic Port.....	1.12-3
Set the System Management Parameters	1.12-4
Assign Alarm Settings.....	1.12-5
... Configure Protections	1.12-7
Configure Equipment Protection.....	1.12-7
Configure Network Protections	1.12-7
... Configure Synchronism.....	1.12-8
Equip Synchronisation Sources	1.12-8
Configure System Synchronism	1.12-8

Configure External Synchronisation Outputs	1.12-9
... Create Cross Connections	1.12-9
... Manage Performances	1.12-10
Configure the Performance Data Collection	1.12-10
Display the Performance Data Collection	1.12-10
... Perform Maintenance Operations	1.12-11
Perform a Database Upload	1.12-11
Perform a Database Download	1.12-11
Realise a Software Upgrade of the Equipment	1.12-11

“See Also” Index

In the following is given an alphabetical list of all the subject treated in the handbook for a quick reference with the “See Also:” indication at the end of every topic.

▪

... Configure Protections	1.12-7
... Configure Synchronism.....	1.12-8
... Configure the System	1.12-2
... Create Cross Connections	1.12-9
... Manage Performances	1.12-10
... Perform Maintenance Operations.....	1.12-11

1

140Mbit/s Configuration	1.7-34
140Mbit/s Path Information Configuration.....	1.7-37
140Mbit/s Port Configuration	1.7-35
140Mbit/s Unit Configuration	1.7-39

2

2Mbit/s Configuration	1.7-22
2Mbit/s Path Information Configuration.....	1.7-25
2Mbit/s Port Configuration	1.7-23
2Mbit/s Unit Configuration	1.7-27

3

34-45Mbit/s Configuration.....	1.7-28
34-45Mbit/s Path Information Configuration	1.7-31
34-45Mbit/s Port Configuration	1.7-29
34-45Mbit/s Unit Configuration.....	1.7-33

A

Abnormal Condition.....	1.5-24
Access the Control Application Software	1.2-11
Act Bank.....	1.11-1
Activating the Control Application.....	1.2-1
Administrate State	1.5-65

Alarm and Event Monitor Window	1.3-12
Alarm Attributes	1.5-22
Alarm Monitoring	1.7-48
Alarm Parameters	1.5-19
Alarm Parameters Setting	1.1-5
Alarm Source (Source)	1.11-1
Alarm Type	1.11-1
Alignment in Progress	1.10-12
Already Disabled	1.10-8
Already Enabled	1.10-8
ALSDisabled (SPI)	1.9-2
Assign Alarm Settings	1.12-5
Assign Protection Roles	1.12-2
AU-AIS (MSA)	1.9-8
AU-LOP (MSA)	1.9-8
Auxiliary General Configuration	1.7-40
Auxiliary Unit Configuration	1.7-40
Availability State (Av. State)	1.11-1

B

Bank 1 Sw	1.11-2
Bank 2 Sw	1.11-2
Bank Failure	1.10-11
Bank Switch	1.7-47
Bank Validation	1.7-48
Bidirectional Cross Connection	1.5-53
Bit error rate on the STM-1 electrical signal (MS- EXC/DEG)	1.9-48
Bit error rate on the STM-1 optical signal (MS-EXC/DEG)	1.9-47
Bit error rate on the VC payload (PPI-EXC/DEG)	1.9-49
Bit Error Rate Trouble-Shooting Procedure	1.9-47
Boot Eprom	1.11-2
Broadcast Cross Connection	1.5-54
Busy Channel Indication	1.5-65

C

Cannot Be Driven	1.10-13
Category	1.11-2
Changing the OSI Protocol Parameters	1.8-2
Channel In Use For Test	1.10-9
Channel Mismatch	1.10-5
Channel Not Connected	1.10-5
Cnf. State	1.11-3
Comm (PORT)	1.9-41
Command Status / Command State	1.11-2
Configuration	1.5-1
Configuration of ADM-1 OSI Protocol	1.8-1
Configuration of Communication Parameters	1.2-12
Configuration of Unit	1.5-3
Configuration State	1.11-3
Configure Equipment Protection	1.12-7
Configure External Synchronisation Outputs	1.12-9
Configure Network Protections	1.12-7
Configure System Synchronism	1.12-8
Configure the Network Element	1.12-2
Configure the Performance Data Collection	1.12-10
Connected Channel	1.10-5
Connection Locked	1.10-6
Connection of Personal Computer to ADM-1	1.2-1
Create the Units	1.12-2
Cross Connections	1.5-48

D

Data Dictionary	1.11-1
Data Missing	1.10-2
Data Non Available	1.10-9
Database Busy	1.10-1
Database Clear	1.6-31
Database Download	1.6-28
Database Failure	1.10-1

Database Locked	1.10-1
Database Upload.....	1.6-27
DBQ Empty	1.10-9
DCC Configuration	1.6-2
DCC Not Configured.....	1.10-7
DCC Parameters already configured.....	1.10-7
DCC Type.....	1.11-3
DCCmLAPDDisconnected (MST).....	1.9-6
DCCr_m already configured	1.10-8
DCCrLAPDDisc (RST).....	1.9-5
Deletion of a Cross Connection.....	1.5-66
DescramblerFail (SPI).....	1.9-3
Diagnostic.....	1.7-46
Display the Performance Data Collection.....	1.12-10
Download Abort	1.10-11
Download In Progress	1.10-11
Download Not In Progress	1.10-11
Download Running.....	1.10-10
Dropped Cross Connection Switch Operations.....	1.5-61
Dropped Cross Connections	1.5-59

E

EOW1 and EOW2 Configuration.....	1.7-41
Eqp Protection Switch (Event Details)	1.5-14
Equip Synchronisation Sources.....	1.12-8
Equip Traffic Port.....	1.12-3
Equipment Protection	1.5-10
Equipment Protection Switch Operations	1.5-12
Equipping Synchronisation Sources.....	1.5-29
Erase Error.....	1.10-10
Error Messages	1.10-1
Event Report.....	1.5-18
Event Type.....	1.11-3
Example of Static Routing Configuration using the OSI Setup Option.....	1.8-19
Exception Report Enable.....	1.6-11
Exit	1.2-17

External Synchronisation Output Switch Operations.....	1.5-45
External Synchronisation Outputs.....	1.5-41
ExtOutSyncFail (Sync).....	1.9-44
F	
Fail (PORT).....	1.9-41
Fault Detection Procedure.....	1.9-1
File Type Error.....	1.10-10
G	
G703 Channel Configuration.....	1.7-43
GC_n.....	1.9-45
General Information.....	1.1-1
General Parameters Configuration.....	1.1-4
Generic Error.....	1.10-1
Ground Contacts.....	1.5-26
Ground Contacts Alarms.....	1.9-45
H	
Header Error.....	1.10-10
How to	1.12-1
HPA_12 - Higher order Path Adaptation.....	1.9-19
HPA_2 - Higher order Path Adaptation.....	1.9-15
HPA_3 - Higher order Path Adaptation.....	1.9-12
HP-DEG (HPT).....	1.9-11
HP-EXC (HPT).....	1.9-11
HP-LOM (HPA_2).....	1.9-15
HP-PLM (HPT).....	1.9-10
HP-RDI (HPT).....	1.9-10
HPT Alarms - Higher order Path overhead termination.....	1.9-10
HP-TIM (HPT).....	1.9-10
HP-UNEQ (HPT).....	1.9-11

I

In Use Unit	1.10-3
Installing the Configuration File "download.ini"	1.2-10
Installing the Local Operator	1.2-3
Installing the Online Help files	1.2-7
Introduction	1.1-1
Invalid Access Rights	1.10-9
Invalid Channel Structure	1.10-13
Invalid Channels Order	1.10-6
Invalid Configuration	1.10-4
Invalid OH Bus	1.10-12
Invalid Parameter	1.10-2
Invalid POH Byte	1.10-13
Invalid Ring CAI	1.10-12
Invalid Software Code	1.10-11
Invalid SOH Byte	1.10-12
Invalid String	1.10-2
Invalid Value	1.10-2
Inventory Data	1.6-9

L

Language Configuration	1.6-30
LAPD Side	1.11-4
LaserBiasOut (SPI)	1.9-1
LaserPwrOut (SPI)	1.9-1
LC Log	1.5-19
Local Control	1.1-2
Local Controller Protocol Version	1.6-30
Local Controller Software Version	1.6-31
LOF (RST)	1.9-4
Log out	1.2-17
Login	1.1-4
Login Access	1.2-13
Loopback Cross Connection	1.5-56
Loopback List	1.7-46

Loopbacks Num.....	1.11-4
LOS (SPI).....	1.9-2
LPOM_12 - Lower order Path Overhead Monitor	1.9-20
LPOM_2 - Lower order Path Overhead	1.9-16
LPOM_3 - Lower order Path Overhead	1.9-13
LPOM-DEG (LPOM_12).....	1.9-21
LPOM-DEG (LPOM_2).....	1.9-17
LPOM-DEG (LPOM_3).....	1.9-14
LPOM-DEG (LPOM_VC-12).....	1.9-37
LPOM-DEG (LPOM_VC-2).....	1.9-39
LPOM-DEG (LPOM_VC-3).....	1.9-31
LPOM-EXC (LPOM_12).....	1.9-21
LPOM-EXC (LPOM_2).....	1.9-18
LPOM-EXC (LPOM_3).....	1.9-14
LPOM-EXC (LPOM_VC-12).....	1.9-37
LPOM-EXC (LPOM_VC-2).....	1.9-40
LPOM-EXC (LPOM_VC-3).....	1.9-31
LP-PLM (LPT_VC-12).....	1.9-36
LP-PLM (LPT_VC-2).....	1.9-38
LP-PLM (LPT_VC-3).....	1.9-30
LP-RDI (LPOM_VC-12).....	1.9-36
LP-RDI (LPOM_VC-2).....	1.9-38
LP-RDI (LPOM_VC-3).....	1.9-30
LP-RDI (LPOM_12).....	1.9-20
LP-RDI (LPOM_2).....	1.9-17
LP-RDI (LPOM_3).....	1.9-13
LPT_VC-12 - Lower order Path Termination.....	1.9-36
LPT_VC-2 - Lower order Path Termination.....	1.9-38
LPT_VC-3 - Lower order Path Termination.....	1.9-30
LP-TIM (LPOM_12).....	1.9-20
LP-TIM (LPOM_2).....	1.9-16
LP-TIM (LPOM_3).....	1.9-13
LP-TIM (LPOM_VC-12).....	1.9-37
LP-TIM (LPOM_VC-2).....	1.9-39
LP-TIM (LPOM_VC-3).....	1.9-31

LP-UNEQ (LPOM_12)	1.9-21
LP-UNEQ (LPOM_2)	1.9-18
LP-UNEQ (LPOM_3)	1.9-14
LP-UNEQ (LPOM_VC-12)	1.9-38
LP-UNEQ (LPOM_VC-2)	1.9-40
LP-UNEQ (LPOM_VC-3)	1.9-32

M

Main Functions	1.3-1
Main Window	1.2-15
Maintenance	1.6-1
MatrixAFail (PORT)	1.9-41
MatrixBFail (PORT)	1.9-42
Maximum number of DCC already configured	1.10-7
Message: Configuration of a DCC Profile (template file: s_dccp0)	1.8-3
Message: Configuration of Connection-less Network Service (template file: s_clns)	1.8-7
Message: Configuration of Ethernet Channels (template file: s_eth)	1.8-13
Message: Configuration of Reachable Address Prefix (template file: s_addrap)	1.8-11
Message: Configuration of Transport Module (template file: s_tp4)	1.8-15
Message: Delete of Reachable Address Prefix (template file: s_delrap)	1.8-12
Message: Restart OSI Protocol Stack (template file: s_osirst)	1.8-18
Message: Update OSI protocol stack (template file: s_osiupt)	1.8-18
Missing (PORT)	1.9-40
Mode	1.11-5
Monitor Cross Connection	1.5-58
Monitoring	1.11-5
Most B Master	1.10-12
MOST Switch	1.6-29
MS - Protection Role	1.11-5
MSA Alarms - Multiplex Section Adaptation	1.9-8
MS-AIS (MST)	1.9-5
MS-DEG (MST)	1.9-6
MS-EXC (MST)	1.9-6
MSP Alarms - Multiplex Section Protection	1.9-7
MSP Protection	1.5-5
MSP Protection Switch (Event Details)	1.5-9

MSP Switch Operations	1.5-8
MSP-INV (MSP)	1.9-7
MSP-PAM (MSP)	1.9-7
MS-RDI (MST)	1.9-5
MST - Multiplex Section Termination Alarms	1.9-5
Multiply SDH Frame	1.5-50

N

NE Configuration	1.5-1
NE General Parameters	1.6-1
NE Log	1.5-16
NE Not Equipped	1.10-3
Ne Regenerator Equipped.....	1.10-3
NE Single Equipped	1.10-3
Network Configuration.....	1.6-4
No Boot Bank	1.10-11
No Data.....	1.10-8
No Protection Config.....	1.10-4
No Records Enough.....	1.10-8
No Resource	1.10-2
Not Implemented.....	1.10-9
Not Providing Service	1.10-6
Num	1.11-5

O

OH Byte in Use	1.10-13
OH Byte Reserved.....	1.10-13
Operation Not Allowed	1.10-2
Operational Features.....	1.1-4
Operative State / Op. State	1.11-5
Optical Info.....	1.7-50
Or Battery (Power)	1.9-45
OSI Parameters Get.....	1.5-75
OSI Parameters Setup.....	1.5-73
OutOfFreq (Sync).....	1.9-43

P

Parking On.....	1.10-9
Parking Status.....	1.5-28
Part Number.....	1.11-6
Password Management.....	1.2-16
Path Prot. Switch (Event Details).....	1.5-63
Path Prot. Switch SNC (Event Details).....	1.5-71
PDH Traff. Rate.....	1.11-6
PDH-AIS (PPI_140Mb).....	1.9-22
PDH-AIS (PPI_2Mb).....	1.9-33
PDH-AIS (PPI_34_45).....	1.9-26
PDH-DEG (PPI_140Mb).....	1.9-23
PDH-DEG (PPI_2Mb).....	1.9-33
PDH-DEG (PPI_34_45).....	1.9-27
PDH-EXC (PPI_140Mb).....	1.9-23
PDH-EXC (PPI_2Mb).....	1.9-33
PDH-EXC (PPI_34_45).....	1.9-27
PDH-LOF (PPI_140Mb).....	1.9-24
PDH-LOF (PPI_2Mb).....	1.9-34
PDH-LOF (PPI_34_45).....	1.9-28
PDH-LOS (PPI_140Mb).....	1.9-22
PDH-LOS (PPI_2Mb).....	1.9-32
PDH-LOS (PPI_34_45).....	1.9-26
PDH-RDI (PPI_140Mb).....	1.9-24
PDH-RDI (PPI_2Mb).....	1.9-34
PDH-RDI (PPI_34_45).....	1.9-28
Perform a Database Download.....	1.12-11
Perform a Database Upload.....	1.12-11
Performance Data Collection.....	1.6-12
Performance Exception Thresholds.....	1.6-15
Performance Not Enabled.....	1.10-8
Performance Parameters.....	1.6-10
PL Expected (hex).....	1.11-7
PL Received (hex).....	1.11-8
PORT - Unit Alarms.....	1.9-40
Port Equipment and Configuration.....	1.1-5

Port Equipped	1.10-5
Port In Use for DCC	1.10-7
Port In Use for Sync	1.10-7
Port Not Equipped	1.10-5
Ports Equipment	1.7-8
Power Alarm.....	1.9-45
PPI_140Mb - 140Mbit/s PDH Physical Interface Alarms	1.9-22
PPI_2Mb-1.5 and 2Mbit/s PDH Physical Interface Alarms	1.9-32
PPI_34_45 - 34 and 45Mbit/s PDH Physical Interface Alarms	1.9-26
Priority	1.11-9
Probable Cause	1.11-9
Profile	1.11-9
Prot.Role.....	1.11-10
Protected By / Protecting.....	1.11-9
Protection Configuration	1.1-6
Protection Parameters.....	1.5-15
Protection Role	1.5-3
Protection State / MSP Condition Type	1.11-10
Protection Type / Prot. Type	1.11-12
Protection Unit	1.11-13
Q	
QL Forced.....	1.11-13
QL Invalid (Sync).....	1.9-43
QL Rx	1.11-13
QL Rx Enabled	1.11-13
QL Table Entry	1.5-47
Quality Level In Use	1.10-7
Quality Level Priority Duplicate	1.10-6
Quality Level Priority Undefined.....	1.10-6

R

Rack Lamp Configuration	1.5-25
RAP Already Equipped	1.10-8
RAP Not Equipped	1.10-8
Realise a Software Upgrade of the Equipment	1.12-11
Received Mode	1.11-14
Refresh	1.4-1
Remote Control Parameters Configuration	1.1-5
Remote Login	1.1-3
RST - Regenerator Section Terminal	1.9-4
RS-TIM (RST)	1.9-4
RxBufferCont (PPI_2Mb)	1.9-35
RxBufferCont (PPI_140Mb)	1.9-25
RxBufferCont (PPI_34_45)	1.9-29
RxClockFail (SPI)	1.9-3
RxRejustFail (MSA)	1.9-9

S

ScramblerFail (SPI)	1.9-2
Serial Port Configuration	1.6-29
Set the System Management Parameters	1.12-4
Slot	1.11-14
SNC Protection	1.5-67
SNCP Switch Operations	1.5-70
Software Download	1.6-26
Software Info	1.6-8
Software Installation	1.2-3
Software Reset	1.7-47
Software Restart	1.7-47
SOH Byte Already in Use	1.10-12
SOH Bytes Configuration	1.5-72
Source / Active Source	1.11-15
SPI - Signal Physical Interface Alarms	1.9-1
Split Access Cross Connection	1.5-57
Standby State	1.11-15

State	1.11-15
Status	1.11-16
Status Bar.....	1.4-1
STM-1 Channel Parameters Configuration.....	1.7-18
STM-1 Configuration	1.7-9
STM-1 Optical Parameters Configuration	1.7-20
STM-1 Path Information Configuration.....	1.7-14
STM-1 Port Configuration	1.7-10
STM-1 SOH Reading	1.7-21
STM-1 Unit Configuration.....	1.7-16
Summary LEDs Status	1.5-23
Sync Alarm.....	1.9-43
Sync Not Configured.....	1.10-7
Sync Source In Use	1.10-7
Sync Source Not Equipped.....	1.10-6
Sync switch -> External Sync (Event Details).....	1.5-46
Sync switch -> System Sync (Event Details).....	1.5-40
Synchronisation	1.5-29
Synchronism Management.....	1.1-6
Synchronization Source Already Equipped	1.10-9
SyncSrcFail (Sync).....	1.9-44
Syntax Error.....	1.10-1
System Architecture	1.1-2
System Synchronisation Sources.....	1.5-35
System Synchronisation Sources Switch Operations.....	1.5-38
SystemSyncFail (Sync)	1.9-44

T

The Connection Status Indication	1.3-7
The Graphical Area	1.3-3
The Menu Bar and Menus	1.3-1
The Serial Port Button Status Indication.....	1.3-7
The Tool Bar.....	1.3-8
TimexAFail (PORT).....	1.9-42
TimexBFail (PORT).....	1.9-42
Too many Auxiliary ByPass Cross Connection.....	1.10-12

Too many Ring Auxiliary Cross Connections	1.10-12
Toolbar	1.4-1
Traffic Management	1.1-6
TU-AIS (HPA_12)	1.9-19
TU-AIS (HPA_3)	1.9-12
TU-AIS (HPA_2)	1.9-16
TU-LOP (HPA_12)	1.9-19
TU-LOP (HPA_3)	1.9-12
TU-LOP (HPA_2)	1.9-15
TxBufferCont (PPI_140Mb)	1.9-25
TxBufferCont (PPI_2Mb)	1.9-35
TxBufferCont (PPI_34_45)	1.9-29
TxClockFail (SPI)	1.9-3
TxOHBusFail (PORT)	1.9-43
TxPulseLoss (PPI_140Mb)	1.9-24
TxPulseLoss (PPI_2Mb)	1.9-34
TxPulseLoss (PPI_34_45)	1.9-28
TxRejustFail (MSA)	1.9-9

U

Unidirectional Cross Connection	1.5-52
Unit Active Alarms	1.7-2
Unit Configuration	1.7-9
Unit Creation	1.7-7
Unit Deletion	1.7-8
Unit Equipped	1.10-2
Unit Functions	1.7-1
Unit Id	1.11-17
Unit Info	1.7-4
Unit Internal Fault Trouble-Shooting Procedure	1.9-46
Unit Inventory Data	1.7-6
Unit Management	1.1-5
Unit Not Equipped	1.10-3
Unit Not Present	1.10-11
Unit Software Info	1.7-5
Unit Type	1.11-17

Unknown Message 1.10-1

V

V11 Channel Configuration 1.7-45

VC-2n-C Cross Connection..... 1.5-64

View Options..... 1.4-1

W

Worker Unit..... 1.11-18

Working Area 1.3-1

Write Failure..... 1.10-10

Wrong (PORT) 1.9-41

Wrong Alarm Category 1.10-6

Wrong Alarm Source..... 1.10-6

Wrong Channel For Test 1.10-10

Wrong Channel Identifier..... 1.10-5

Wrong Checksum 1.10-10

Wrong Monitored Entity 1.10-9

Wrong Path Protection Role..... 1.10-4

Wrong Port Identifier 1.10-5

Wrong Protection Resource..... 1.10-4

Wrong Protection Role 1.10-3

Wrong Protection Schema..... 1.10-4

Wrong Protection Type 1.10-4

Wrong Sequence..... 1.10-10

Wrong Unit Identifier..... 1.10-2

Wrong Unit Type..... 1.10-3

Wrong Units List..... 1.10-11

Wrong Worker Resource..... 1.10-4

Z

Zoom Fault Window..... 1.4-1