



Metropolis[®]

AMU

Software Release Description

Release 2.0.3

Issue 1
September 2005

Lucent Technologies - Proprietary
This document contains proprietary information of
Lucent Technologies and is not to be disclosed or used except in
accordance with applicable agreements

Copyright © 2005 Lucent Technologies
Unpublished and Not for Publication
All Rights Reserved



This material is protected by the copyright and trade secret laws of the United States and other countries. It may not be reproduced, distributed, or altered in any fashion by any entity (either internal or external to Lucent Technologies), except in accordance with applicable agreements, contracts, or licensing, without the express written consent of Lucent Technologies and the business management owner of the material.

For permission to reproduce or distribute, please contact your Account Executive.

Notice

The information in this document is subject to change without notice. Although every effort has been made to make this document as accurate, complete, and clear as possible, Lucent Technologies and its predecessors assume no responsibility for any errors that may appear in this document.

Federal Communications Commission (FCC) Notification and Repair Information

This equipment is designed to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause interference to radio communications. Operation of this equipment in a residence is likely to cause harmful interference, in which case, the user will be required to correct the interference at his own expense.

Security

In rare instances, unauthorized individuals make connections to the telecommunications network. In such an event, applicable tariffs require that the customer pay all network charges for traffic. Lucent Technologies and its predecessors cannot be responsible for such charges and will not make any allowance or give any credit for charges that result from unauthorized access.

Trademarks

Pentium is a registered trademark of Intel Corporation

WaveStar, Metropolis and Navis are trademarks of Lucent Technologies Inc.

Windows is a registered trademark of Microsoft Corporation.

MS-DOS, Microsoft, Internet Explorer, Windows 95, Windows 98, Windows 2000, Windows NT, Windows ME, and Windows XP are registered trademarks of Microsoft Corporation.

Ordering Information

For information on how to order Lucent Technologies information products, see the "About this information product" section (Preface) of this document.

Support

Information Product Support Number

Lucent Technologies provides a referral telephone number for support. Use this number to report errors or to ask questions about the information in this product. This is a non-technical number. The referral number is 1 800 645 6759 or 1 317 322 6848.

Technical support

Technical assistance can be obtained by calling the International Customer Management Center (ICMC) at 00800 00 lucent (toll free inside EMEA) or +353 1 6924579 (toll) for in-hours and emergency out-of-hours support.

This document was developed by Lucent Technologies.



Contents

1 Problems Fixed

General Remarks	1-2
Problems Fixed in Network Element Software Release 2.0.3	1-3
Problems Fixed in Network Element Software Release 2.0.2	1-5
Problems Fixed in Network Element Software Release 2.0.1	1-9
Fixed problems in Network Element software Release 2.0.0	1-10
Fixed Problems for ITM-CIT R14.04.02	1-13

2 Known Problems

General Remarks	2-2
Known Problems in Network Element software Release 2.0.3	2-3
Known Problems for ITM-CIT R14.04.02	2-7

3 New Installation

General Remarks	3-2
-----------------	-----

4 Upgrade Procedures

ITM-CIT Upgrade	4-2
NE Software Upgrade General	4-3
NE Maintenance Upgrade with WaveStar® ITM-SC	4-5
NE Maintenance Upgrade With the ITM-CIT	4-12
NE Maintenance Upgrade with Navis OMS	4-14
Downgrade from R2.0.x to R1.0.	4-19
NE Hardware Upgrade	4-20
Main card equipment protection	4-23

5 Miscellaneous

Technical Support Services (TSS)

5-2



About this information product

Purpose This document provides important information about known problems and problems fixed in the Metropolis[®] AMU Release 2.0.3 Network Element (NE) software and ITM-CIT (Craft Interface Terminal) software.

This document also provides procedures about how to install and/or upgrade the Metropolis[®] AMU NE and ITM-CIT software.

Features are not described in this document because this information is provided in the Applications, Planning and Ordering Guide, which is included in the Metropolis[®] AMU documentation set.

Reason for reissue This is the first issue

Safety labels This manual contains admonishments in the form of **DANGERS**, **WARNINGS**, and **CAUTIONS**.

These admonishments, listed in order of priority, have the following definitions:

- **Danger** shows the presence of a hazard that will cause death or severe personal injury if the hazard is not avoided.
- **Warning** shows the presence of a hazard that can cause death or severe personal injury if the hazard is not avoided.

Caution shows the presence of a hazard that will or can cause minor personal injury or property damage if the hazard is not avoided. Caution is also used for property-damage-only accidents. This includes equipment damage, loss of software, or service interruption.

Intended Audience This document is intended for those responsible for the installation, acceptance, operations and maintenance of Release 2.0.3.

How to Use This Document **Section 1 - Problems Fixed**

This section provides descriptions of the problems that have been fixed in Metropolis[®] AMU Release 2.0.3. or before.

This section also provides a listing of problems that have been fixed in the ITM-CIT Release R14.04.02.

Section 2 - Known Problems

This section provides descriptions and workarounds to existing problems in Metropolis[®] AMU Release 2.0.3 and ITM-CIT Release R14.04.02.

Section 3 - New Installation

This section provides a reference to the procedure to install the Metropolis[®] AMU Network Element (NE) software onto a new Metropolis[®] AMU system and a reference to the procedure to install the ITM-CIT (Craft Interface Terminal) software onto a Windows-based PC.

Section 4- Upgrade Procedures

This section provides the procedure for a maintenance upgrade of the Metropolis[®] AMU Network Element (NE) software to Metropolis[®] AMU Release 2.0.3 if applicable.

The maintenance upgrade can be performed with the ITM-CIT (Craft Interface Terminal), with the WaveStar[®] ITM-SC or with the Navis OMS, and all three the procedures are given.

Section 5 - Miscellaneous

This section provides useful information to supplement the information provided in the previous sections.

How to Comment To comment on this information product, go to the [Online Comment Form \(http://www.lucent-info.com/comments\)](http://www.lucent-info.com/comments) or email your comments to the Comments Hotline (comments@lucent.com).

Ordering Information The following is a list of described and referred Network Element (NE) and Craft Interface Terminal (CIT) software that can be ordered:

- Metropolis[®] AMU Release 2.0.3, ASW105D, 109584631.
- ITM-CIT, R14.04.02, SAA615E, 109584995.

The following is a list of related documents:

- Applications and Planning Guide, Release 2.0, 365-312-818, 109526392.
- Installation Guide, Release 2.0, 365-312-819, 109526418.
- User Operations Guide, Release 2.0, 365-312-822, 109526434.
- Alarm Messages and Trouble Clearing Guide, Release 2.0, 365-312-821, 109526384.
- WaveStar[®] Integrated Transport Management Subnetwork Controller (ITM-SC) Release 11.4 Provisioning Guide for Metropolis[®] AMU Release 2.0, 365-312-820, 109526426.

Metropolis[®] AMU product documentation can be ordered as individual paper copies from the Customer Information Center (CIC). To order documents, specify the document you need. Order by contacting your account executive or by using a contact listed below.

RBOC and BOC customers should process orders through their company documentation coordinator.

Mail Order	Telephone Order	Web Order
<p>Lucent Technologies. Attention: Order Entry 2855 N. Franklin Road P.O. Box 19901 Indianapolis, IN 46219</p>	<p>Within USA: 1-888-LUCENT8 (1-888-582-368) FAX: 1-800-566-9568</p> <p>From Canada: 1-317-322-6616 E-Mail: cicorders@lucent.com</p> <p>Outside USA: Asia, the Pacific Region, China, Caribbean, and Latin America: +1-317-322-6416</p> <p>Europe, the Middle East, and Africa: +1-317-322-6416:</p> <p>Worldwide FAX: +1-317-322-6699</p>	<p>Commercial Customers: Go to http://lucentdocs.com or http://www.lucent8.com</p> <p>Lucent Associates: http://www.cic.lucent.com.</p>
Methods of Payment:		
Commercial Customers	<ul style="list-style-type: none"> • A credit card is required for orders totaling \$1000 or less. Visa, MasterCard, and American Express are accepted. Prepayment by check is also acceptable. • Orders totaling over \$1000 may be paid for using credit card, check, or invoice upon receipt of a purchase order. Purchase orders may be faxed or mailed using the information provided above. 	
Lucent Associates:	Orders placed by Lucent associates are billed using an FML organization number and location code.	





1 Problems Fixed

Overview

Introduction This section provides descriptions of the problems that have been fixed in Metropolis[®] AMU Release 2.0.3. or before.

This section also provides a listing of problems that have been fixed in the ITM-CIT Release R14.04.02.

Reason for revision This is the first issue.

Contents This chapter contains the following:

General remarks	1-2
Problems Fixed in Network Element Software Release 2.0.3	1-3
Fixed Problems in Network Element Software Release 2.0.2	1-5
Fixed Problems in Network Element Software Release 2.0.1	1-9
Fixed Problems in Network Element Software Release 2.0.0	1-10
Fixed Problems for ITM-CIT R14.04.02	1-13

General Remarks

Support of single fiber bidirectional SFP's.

This is the first maintenance release supporting single fiber bidirectional SFP's. All previous releases are not able to support this type of SFPs!

The application makes use of two SFP's operating with a different wavelength. Although both SFP's will fully operate, on the 109559492 (1490nm) the wavelength is displayed as 1550nm instead of 1490nm. For the 109559500 (1310nm) all parameters are displayed correctly.

Problems Fixed in Network Element Software Release 2.0.3

- 2.0_CPDnb13417** **Protection AU4 CTP switches internally to monitoring state after deleting MSP pair.**
- When a MSP group is deleted the AU4 Connection Termination Point (CTP) associated to the protection leg will be set to monitored. This might lead to unexpected alarms. On the manager the CTP remains visible as 'Not Monitored'.
- 2.0_CPDnb16302** **Unexpected NE reset.**
- The NE will reset every 4 days, 9 hours and 25 minutes. Traffic is not affected by this reboot. The AMU will be un-managed for a certain amount of time after which the association will restore.
- 2.0_CPDnb16529** **Changing CTP TTI result in inaccessible parameters.**
- When an expected TTI of a CTP is provisioned first with an element manager and later the same TTI is modified with ITM-CIT, the element manager no longer can change some CTP parameters. This problem only applies to TU-3 and TU12 CTP's.
- 2.0_AR1-1238912/
CPDnb16145** **Ethernet PM is displayed in Mega octets although kilobytes are measured on AMU.**
- All Ethernet PM counters should have been measured in Mega Octets instead of kilobytes to prevent counter overflow.
- 2.0_AR1-1238985/
CPDnb16146** **Not able to switch or delete AMU equipment protection with element manager.**
- In case an NE with shelf type 2m/4o is equipped with two MAIN cards one can enable equipment protection with the element manager but deleting the protection group, executing a protection switch or modifying the wait to restore timer is not possible. Fields are either grayed out or the operation fails with error message.
- 2.0_AR1-1266375/
CPDnb17012** **Transmitted sequence numbers always 0 on element manager.**
- In case the EPL4_E14 (ASC105) is used the transmitted sequence number of any member of a VCG is always 0. This behaviour is independent on the LCAS mode or VCG capacity used (e.g. VC-4, VC3 or VC12). Traffic is not impacted.

**2.0_AR1-1270458/
CPDnb17231**

NE software switch temporally close optical GBE link.

When the NE resets (e.g. software store switch) the optical GBE link goes down for at least 6 seconds introducing an outage. At the same time also the link LED is switched off.

**2.0_AR1-1270668/
CPDnb17575**

Frame Loss when decreasing the VCG Source members from VC4-7v to VC4-6v on a GBE optical Port.

When reducing the VCG capacity by reducing first the source member followed by the sink member at the far-end site the capacity reduction will be hitless. In this case frames are already lost at the moment the source capacity is reduced by one VC-4 member.

**2.0_AR1-1288257/
CPDnb17981**

Timing Phase Jumps after timing source switching.

Timing phase jumps occurs after interrupting the current timing source and switch over to the protection timing source. The phase jumps were measured at the station clock output.

**2.0_AR1-1270445/
CPDnb17260**

Possible to set a E/FE interface to 1000Mbps.

The Metropolis AMU EPL4_E14 option card (ASC105) only support Ethernet and Fast Ethernet on the first two ports (TPx.5 & TPx.6). With the element manager it possible to provision 1000bit/s (1000BASE-T) when the auto-negotiating mode is disabled. This results in the actual port speed parameter showing 100bit/s and the provisioned port speed parameter showing 1000bit/s.

2.0_CPDnb14299

Incorrect default STP port path cost is used on X4IP option card.

The default STP path cost is 200000000 instead of 200000.

2.0_CPDnb16290

LAN port in auto mode becomes monitored after power cycle.

When on the EPL4_E14 option card the LAN port mode is set to auto after the NE is power cycled, the port changes to monitored and LANcLOS is raised.

Problems Fixed in Network Element Software Release 2.0.2

- 2.0_CPDnb09460 Existing VC12PLM alarms on X8PL Option Card do not clear after changing TUG structure to VC3.**
- When on an X8PL the tug structure is changed from VC12 to VC3 some X8PL alarms that were raised on VC12 TP's still appear. They should have been cleared.
- 2.0_CPDnb13414 No Low Order RDI and SSF alarms reported on CTP.**
- When having a TU12 or TU3 Connection Termination Point (CTP) set to monitored the Service Signal Failure Alarm (SSF) and Remote Defect Indication Alarm (RDI) when present are not being reported. The SNC protection will behave as expected.
- 1.0_CPDnb09350 After inserting P/E1 63 unit, 63 x E12cNES alarms reported for 10Min.**
- These alarms have no impact on transmission and disappear within 10 minutes. After this time all alarms reflect the actual transmission state as expected.
- 2.0_CPDnb11201 Unit initialisation alarm is not raised.**
- Normally when any unit is inserted and assigned an alarm is raised to indicate that the unit is being initialised. Although the unit LED will be lit the alarm is not raised.
- 2.0_CPDnb13418 LAN Dropped packets threshold crossing (LANDPcTHRx) Alarms not raised.**
- No alarms are raised for threshold crossing alerts on X4IP Option card.
- 2.0_CPDnb13419 AU4 CTP Performance Monitoring can not be trusted.**
- It is possible to enable AU4 Connection Termination Point (non-intrusive) Performance Monitoring (PM) but this will not result in valid PM data. The counters can have any value and therefore should be ignored.
- 2.0_CPDnb13128 Unexpected Alarm behaviour when re-assigning option boards.**
- Assigning a different Option card while the original card remains seated might result in unexpected alarm behaviour. This means that old alarms can still be reported and new alarm might not be reported. This

scenario can also occur when the so called 'Create NE from Template' is used on ITM-SC and the template contains a different card configuration than actually present in the NE.

2.0_CPDnb13354 DCC neighbours list misses entries.

When redundant MS-DCC paths exist between two NE's (e.g. when two fibre pairs are connected between the two NE's) only one of the paths is shown in the CIT neighbours list. As the OSI stack decides which route is taken to the neighbour this has no real impact on the remote login. There is NO relation between RS/MS. The missed DCC connection in the list depends in which order the DCC channels are enabled (MS or RS independent).

2.0_CPDnb13097 Wrong Pluggable Module Present (PMcWUP) could be raised on STM-1e SFP.

It has been observed, that for a correctly assigned STM1 electrical SFP the alarm "Wrong Pluggable Module present" is raised.

2.0_CPDnb13422 Specific parameters related to 2 Mbit/s framed output timing are not available through ITM-CIT.

When 2 Mbit/s framed output timing is selected the following parameters can not be provisioned using the ITM-CIT:
Squelch method: DNU or AIS
Force DNU/AIS: yes or no.

2.0_CPDnb13585 Input clock Port mode changes automatically from Auto to Monitored.

Although no signal is applied to the external input clock (MTPx.1) the port mode will switch from auto to monitored after the auto mode timer has expired. As a consequence the station clock input loss of signal alarm (MTcLOS) will be raised.

2.0_CPDnb13578 CTP monitoring mode affected by making /deleting SNC cross connect.

In case an SNC cross connect is provisioned the Connection Termination Point (CTP) is switched to 'Monitored'. The same CTP will switch back to 'Not monitored' when the cross connect is removed. This is true for VC12, VC3 and VC4 SNCP.

2.0_CPDnb13848 Timing sources on the second MAIN card will fail during software reset of this card.

When the second main card is going through a “soft restart” all timing inputs from that card are declared “Failed”. As a result the alarm ‘Timing Link failed’ (TLINKcFLR) is raised. In case a Station Clock output on the second Main card is enabled and its source is locked to the system timing, the output will be squelched. As soon as the card has recovered all timing references and the station clock output will restore. In case only timing references are used from the second MAIN card, the system timing will go into holdover mode and the alarm ‘System timing in backup state’ (TBACKcUPM) is raised accordingly.

2.0_CPDnb13892 Removal of second Main card might lead to traffic outage.

When removing the second main card when 1+1 equipment protection is enabled traffic could be lost for approximately 2 minutes depending on the configuration.

1.0_CPDnb09320 Initial Accepted TTI might be incomplete.

Sometimes the accepted TTI as reported in the CIT is incomplete.

2.0_CPDnb15418 Node remains recovering after creating VC-4 cross connect to ASC107 or ASC105 option card.

When a cross-connect is provisioned to one of the two AMU native Ethernet Private Line cards (ASC107 or ASC105) the NE will crash and remains recovering until the MIB is deleted. This problem will occur regardless of the card being present!

**2.0_AR1-1189988/
CPDnb14837 Long MSP switch times when MSP prot. vc12 path continues on different LP.**

In case a vc12 path is entering the NE on one of the Line Ports and is not terminated on the NE itself but put through via a low order cross connect to a different Line Port, the traffic will suffer from an additional traffic hit of 2 milliseconds shortly after the initial traffic interruption was restored (typically after 28 milliseconds). For example in case of an MSP protection switch an additional short hit will occur after the MSP switch has been completed. Remark: Depending on the used analyzer the two traffic interruptions might be counted as one.

**2.0_AR1-1141833/
CPDnb11816 DCC access should be available shortly after node has powered up.**

In case an NE is power cycled or the Main card in slot 1 is replaced, remote association with the element manager will only be possible at least 15 minutes later after the application software is up and running. The solution implemented has reduced this time from 15 minutes to 5 minutes.

2.0_CPDnb13815 Traffic might be impacted in case provisioning is performed on MAIN2 during initialisation.

After the MAIN2 card is re-assigned it is not allowed to do any provisioning until the initialisation has completed. In case provisioning is done during unit init, traffic interruption might occur as long as the MAIN2 card is not yet operational.

**2.0_AR1-1217868/
CPDnb153836 LAN port parameters not available on SC.**

The actual auto negotiation port parameters are not displayed. The behaviour is independent of the Auto-negotiation mode (disabled or enabled). The missing parameters are: Port Speed, Duplex Mode and Pause Mode.

**2.0_AR1-1238369/
CPDnb16081 Not able to read out accepted RS trail trace with ITM-SC.**

Retrieving the Provisioned NE RS termination point information with ITM-SC does not show the accepted trail trace information. It is available when using the ITM-CIT.

**2.0_AR1-1238391/
CPDnb16082 Enabling RS TTI Mismatch with ITM-SC has no effect.**

No alarms are raised when the RS TTI mismatch detection is enabled with the ITM-SC and the accepted and expected trail trace is different. When the TIM detection is disabled and enabled using the ITM-CIT the expected alarms are raised.

Problems Fixed in Network Element Software Release 2.0.1

1.0_CPDnb15414 Traffic lost after upgrade when X8PL link partner is 10 Mbit/s.

Nodes with X8PL links using port speeds of 10 Mbit/s might lose all traffic when upgrading from R1.0.X to R2.0.0. This problem might occur regardless the auto-negotiation or duplex mode settings.

1.0_CPDnb15416 VC-4 Cross connect sometimes not established on X8PL option card.

When the X8PL is used sometimes a crossconnect from the main card to the trib card is not correctly established. This results in traffic unable to pass through.

Fixed problems in Network Element software Release 2.0.0

1.0_CPDnb09307 Lining up not working correctly.

After de-activating 'lining up', existing alarms are not reported. New alarms do get reported.

1.0_BZ2703/CPDnb07627 Fault list not correctly implemented.

The alarm reporting/severity list shows more alarms than are supported in R1.0. Altering the Severity or Reporting of an unsupported alarm type has no impact on the operation.

1.0_CPDnb09310 Raised MDI Alarms will clear in case of reboot even though MDI condition remains.

In case MDI alarms are raised and the NE is going through a reset (e.g. after DCN provisioning) the MDI alarms are cleared after the NE has recovered, although the actual MDI condition has not changed.

1.0_CPDnb09318 MSxcDEG alarm is raised despite the port is not monitored.

MS4cDEG and MS1cDEG alarms are reported even when the ports are not set to monitored. The alarms in itself are valid.

1.0_CPDnb08408/CPDnb8238 Not possible to set MDO to be NE controlled.

The MDOs 2-4 can operate in two modes:

-When a message string is assigned to any one of these MDOs, all MDOs can operate in the Manager Controlled Mode;

-When message strings are removed on all 3 MDOs the NE-controlled or alarm-signaling mode is active.

On CIT, the button NE-controlled has no effect.

1.0_CPDnb09324 VCxcDEG not detected on X8PL.

Signal Degraded conditions on VC-12s or VC-3s of VCGs on the X8PL card are not detected nor alarmed.

1.0_CPDnb09329 DCC slaved to MSP not supported.

Generally, DCC communication over MSP protected fibers can be supported in two modes: independent or slaved. The first method is the defacto standard and is available in R1.0. When MSP is enabled, there are two DCC paths and the DCN protocol stack will make its own 'independent' choice which path to use.

The second method, slaved to DCC, is not supported on AMU R1.0. Here the choice which path to select is controlled by the MSP switch algorithm, hence the name 'DCC slaved to MSP'.

1.0_CPDnb09331 Expected API not emptied when changing mode to Non-specific.

If an expected TTI is provisioned and the mode is afterwards changed to Non-specific byte, the API string (no longer editable with CIT) is not emptied but remains part of the TIM evaluation. When having TIM detection enabled this will be service affecting.

1.0_CPDnb09334 Only DCC neighbours list filter "All All" works.

When applying.

1.0_CPDnb09351 Data on VC3 TP of CC incorrect.

Accepted TTI information on TU3 CTPs (on the main card) is unreliable when no SNC is enabled on that TU3. Transmission is not affected. When SNC is enabled TTI reporting and SNC switching are normal.

1.0_CPDnb09353 Insertion of SFP causes STM1cLOS and MS1cSSF.

This only occurs when port mode time is set to zero seconds. The alarms disappear when port mode is set to not-monitored.

1.0_CPDnb09454 X8PL: Accepted TTI is not working properly for VC12 Tx path.

When the NE receives J2 terminated on an X8PL as a fixed byte, the Accepted TTI mode is shown as 'non-specific byte' and the Accepted TTI is 15 times the same correct value.

1.0_CPDnb09456 NE with IS-IS level 1+2+PartRepair accepts all LAN IS IS levels.

On a partition repair capable node (NE IS-IS level 1+2+PartitionRepair) only one provisioning mode for LAN IS-IS level should be accepted: follow NE IS-IS level. Currently all three modes (none, follow and L2) are accepted.

Expected behaviour: LAN levels 'none' and 'L2' must be rejected.

1.0_CPDnb09445 VC3VcSQM alarm not raised.

The alarm VC3VcSQM (concatenated group sequence mismatch) is not raised in case incorrect sequence numbers are received in a VCG consisting of VC3's. For VC12 VCG's the VC12VcSQM alarm is correctly raised.

1.0_CPDnb09459 Timing reference provisioning on MSP pair.

When as working leg LP1.2 (STM4) in a MSP pair is assigned, no timing references can be provisioned anymore.

1.0_CPDnb09312 TP's of lineports not operational.

The AU4 CTP's shown is always related to the worker path. Not able to see the AU4 layer on the protection path.

1.0_CPDnb09321 Unequipped not inserted after removal from VCG.

When a VCG member is removed it will keep transmitting the original TSL, while it should send unequipped. Therefore the far end will not see and raise the unequipped alarm.

1.0_AR1-1138226 AU4-AIS and AU4-LOP not reported on STM-4 links when MSP is enabled.

On MSP protected STM-4 links AU4-AIS or AU4-LOP alarms are not reported. Looking at the AU4 CTP I could see the AIS but no alarm.

Running the same test on STM-1 raised both alarms as expected.

1.0_CPDnb09461 MDO-1 inverted behaviour.

The behaviour of MDO-1 is inverted, i.e.: when in the External Driving Function the MDO-1 is activated the contact is open.

Remark: Although the behaviour has actually not changed this problem was moved to the fixed list as the release 2 customer documentation contains a proper explanation of the current behaviour.

Fixed Problems for ITM-CIT R14.04.02



2.0_CPDnb12459 Local CIT login not possible in case remote node is part of alarm supervision and is not reachable anymore.

During a local CIT session a remote node is added to the alarm supervision after which the local session is ended without unsubscribing the Nodes from the Alarm supervision. In case the remote Node is not accessible anymore (e.g. No QLAN or DCC connection) it is not possible to login to the local Node.

2 Known Problems

Overview

Introduction This chapter describes significant customer-affecting problems known to exist in Metropolis[®] AMU Release 2.0.3 Network Element software and ITM-CIT Release R14.04.02. Workarounds are provided where they apply.

Reason for revision This is the first issue.

Contents This chapter contains the following:

General Remarks	2-2
Known Problems in Network Element software Release 2.0.3	2-3
Known Problems for ITM-CIT R14.04.02	2-7



General Remarks

Performance Monitoring

PM points are deleted when the SFP port speed is changed or the SFP port type is changed (e.g. STM-1o to STM-1e).

RJ45 Generic-LAN Port

The G-LAN interface is used for upgrading the NE software, making use of the Fast Download Tool (FDT). The G-LAN interface can also be used by TSS to do field support. This interface should not be connected to a local area network in field applications without precautions. Traffic on a LAN might contain IP traffic which is not correctly handled by the NE. Also the LAN might be adversely affected by the presence of the NE. Therefore point to point connections are recommended and these should only be made when needed to provide support.

Private Line support

For this release only the X8PL option board series S1:2 and onwards are certified. The use of X8PL series S1:1 could lead to non compliant behaviour especially when LCAS is used and should therefore not be used.

Alarming per instance is not supported.

Although it is possible to provision alarming per instance this is not a supported feature of AMU.



Known Problems in Network Element software Release 2.0.3

PDH/SDH Related Problems

See the following.

2.0_CPDnb13412

No AIS insertion in case of a payload mismatch on second and third VC3 of a VC4.

In case a payload mismatch exist due to a mismatch in the expected and accepted Trail Signal Label (TSL) on the second and third VC3 of a VC4 no AIS will be inserted. This problem does not apply for VC12 payload mismatch.

Workaround:

None.

2.0_CPDnb09570

Alarm masking not implemented.

The alarm masking is not implemented when the VC4cSSF alarm is present. This will result in all related VC12cSSF or VC3cSSF alarms also being displayed.

Workaround:

None, just ignore additional LO SSF alarms when VC4cSSF is raised.

2.0_CPDnb09455

ISDN-LL NT1aLBK, triggered by Sa6 bits, does not work (outloop).

When an outloop is set on a E1 in ISDN-Leased Line mode this loop will not appear.

Workaround:

None.

2.0_CPDnb04356

DS3 outloop is transparent.

Although the DS3 traffic can be looped in this release by provisioning an outloop, the set outloop acts transparent: it's both looped back, as well as transmitted on the DS3 port.

Workaround:

None.

2.0_CPDnb13942 Sometimes the unit fault LED will not lit in case of a unit equipment failure.

In case an Option card equipment failure is caused by a communication problem between MAIN card and Option card the unit fault LED will not lit. The alarm is raised as expected.

Workaround:

None.

PDH/SDH related Timing problems

See the following.

2.0_CPDnb10954 System Timing Window not updated after source switch.

When the ITM-CIT is used to execute a timing switch request, the changes are not visible in the System Timing Window.

Workaround:

Click once or twice on the update button.

Ethernet-Related Problems

See the following:

1.0_CPDnb09309/ CPDnb08667

Undersized frames not dropped on X8PL.

When sending frames with a size smaller than 64 bytes (60 + 4 CRC) those frames should be dropped. Instead they are transmitted unharmed.

Workaround:

None.

1.0_CPDnb09314

Traffic loss in one direction if LCAS on an X8PL option card is not enabled on both ends.

If on an existing path LCAS is enabled at one side of a link the frames are lost at the remote end until LCAS is enabled on the remote side as well.

Workaround:

None.

2.0_CPDnb01953

CIR not restricting traffic 60msec per minute (TransLAN).

When the CIR is provisioned, for 60 millisecond per minute (0.1% of the time) all traffic (all flows) is passed instead of being restricted according to the provisioned CIR. The effect of this is at largest when the LAN input traffic is much higher than the provisioned CIR values.

Workaround:

None.

2.0_CPDnb12110

Port lock-up after switching analyzer port from 100Mbps to 10Mbps.

Feeding an X4IP TransLAN port set to fixed 10Mbps with a fixed 100Mbps signal sometimes bring the port in a blocked state that after correcting the speed to 10Mbps will not recover until after a hard reset of the X4IP TransLAN unit.

Preventive action:

Match the speed of both interfaces before interconnecting or use auto negotiating.

2.0_CPDnb16094

Performance degradation on Gigabit Ethernet ports.

At high traffic loads a slight performance degradation may be observed on the ASC105 unit of the AMU. This occurs only on traffic on the Gigabit Ethernet ports (port 7 ... 10) in the direction from SDH towards

the Gigabit Ethernet LAN port. The performance degradation is only observed at high traffic loads and depends on the traffic pattern. Performance results for typical test types are listed in table below

Test type	Traffic load	Throughput
RFC 2544	100% (1000 Mb/s)	100%
Accurate Internet Mix	10% (100 M/bs)	99.997%
Accurate Internet Mix	25% (250 Mb/s)	99.983%
Accurate Internet Mix	50% (500 Mb/s)	99.925%
Accurate Internet Mix	75% (750 Mb/s)	99.790%
Accurate Internet Mix	100% (1000 Mb/s)	99.549%

RFC2544 test uses frame lengths of 64, 128, 256, 512, 1024, 1280 and 1518 bytes. The Accurate Internet Mix test uses a frame length distribution that matches internet traffic patterns.

Workaround:

None.



Known Problems for ITM-CIT R14.04.02

1.0_CPDnb09185/ CPDnb10001

Possible hang up of ITM-CIT.

When a request is done with the CIT while the NE is busy writing data to the CIT (e.g. update of alarm list), the CIT might in some cases hang.

Workaround:

None.

2.0_CPDnb13204

CIT may hang when selecting cross connect window filter while alarms are being send to the CIT.

When multiple communication messages are being send between NE and CIT might result in a CIT hang up. This could for example occur when alarms are being send from NE to CIT while the user is selecting the cross connect filter window at the same time.

Workaround:

Close the current alarm window or disable the auto alarm update feature during provisioning.

2.0_AR1-1238912/ CPDnb17247

Ethernet PM is displayed in Mega octets although kilobytes are measured on AMU.

All AMU Ethernet PM counters are currently measured in Mega Octets instead of kilobytes to prevent counter overflow. Although the NE is now sending PM counters in Mega Octets and the value displayed on the CIT PM measurement window is in Mega Octets the unit used in this screen still shows kilobytes.

Workaround:

None

2.0_AR1-1270475/ CPDnb17532

Possible to change between GBE and FE port on the EPL4_E14 option card although the port is carrying traffic.

On the AMU EPL4_E14 option card it is possible to switch between the electrical interface (E/FE/GBE) and the optical GBE interface (LAN x.7 versus LANx.8 and LANx.9 versus LANx.10 where x is the slot position) without a warning message is being displayed.

Workaround:

None

3 New Installation

Overview

Introduction This section provides a reference to the procedure to install the Metropolis[®] AMU Network Element (NE) software onto a new Metropolis[®] AMU system and a reference to the procedure to install the ITM-CIT (Craft Interface Terminal) software onto a Windows-based PC.

Reason for revision This is the first issue.

Contents This chapter contains the following:

General Remarks	3-2
---------------------------------	-----



General Remarks

Software for Metropolis[®] AMU Release 2.0.3 consists of two packages:

- Metropolis[®] AMU Network Element (NE) Software Release 2.0.3 delivered on a CD-ROM (Comcode 109584631).
- ITM-CIT (Craft Interface Terminal) Software Release R14.04.02 delivered on a CD-ROM (Comcode 109584995).

For new installations refer to the Metropolis[®] AMU, Release 2.0 Installation Guide (365-312-819, Comcode 109526418).





4 Upgrade Procedures

Overview

- Purpose** This chapter contains information regarding upgrade procedures.
- Reason for revision** This is the first issue.
- Contents** This chapter contains the following:

ITM-CIT Upgrade	4-2
NE Software Upgrade General	4-3
NE Maintenance Upgrade with WaveStar® ITM-SC	4-5
NE Maintenance Upgrade With the ITM-CIT	4-12
NE Maintenance Upgrade with Navis™ OMS	4-14
Downgrade from R2.0.x to R1.0.	4-19
NE Hardware Upgrade	4-20
Main card equipment protection	4-23



ITM-CIT Upgrade

De-installation of Previous ITM-CIT Release

To upgrade an existing ITM-CIT to R14.04.02, an installed ITM-CIT version older than release R14.04.02 needs to be un-installed via the MS-Windows application “Add/Remove Programs”. User-created data (saved views, data communication, provisioning, CIT security administration, NE generic file transfers) needs to be preserved before installing the new R14.04.02 ITM-CIT version.

Installation of ITM-CIT R14.04.02

For installation of the ITM-CIT refer to the Metropolis® AMU, Release 2.0 Installation Guide (365-312-819, Comcode 109526418).



NE Software Upgrade General

Upgrading From Releases Older Than Release 2.0.x to Release 2.0.3

To upgrade a Metropolis® AMU Network Element from a release older than Release 2.0.x a MIB conversion is needed. MIB conversion takes place outside the NE by means of ITM-SC. As this may impact your entire network this procedure falls outside the scope of this document. For more details on this procedure please contact your local Lucent Technologies support group. In any case take the notes below into account.

Important! Before starting an upgrade to Release 2.0.x make sure the system is running on release 1.0.1 (CC 109509463). If you fail to do so the system will not be manageable in case the software is switched back to release 1.0. Be aware that the system will autonomously switch back in case the software switch is not committed within two hours.

Important! NE Software download by means of the WaveStar® ITM-SC, Navis OMS or ITM-CIT might fail on main cards starting with the S/N as listed in the table below.:

Item Code	Comcode	S/N
ASC101	109509661	04BE070000xx
		04BE090100xx
		04BE110100xx
ASC101B	109555516	04BE110700xx

Please contact your local Lucent Technologies support group for a workaround. NE software downloads by means of the Fast Download Tool are not affected.

Upgrading Release 2.0.x to Release 2.0.3

A Metropolis® AMU Network Element in Release 2.0.x can be upgraded to Release 2.0.3 directly.

Traffic impact

If the Metropolis® AMU is equipped with an Ethernet option card like the TransLAN+ (X4IP) or Private Line card (X8PL, EPL4_E14 or EPL4_E132_75), an Ethernet traffic outage might occur of less than 1 second. If on the TransLAN+ (X4IP) the rapid spanning tree protocol is active while upgrading from Release 2.0.x to Release 2.0.3, there can be an Ethernet traffic outage of up to 5 seconds due to spanning tree reconfiguration. SDH/PDH traffic is not affected for more than 50 millisecond.

Required Equipment

This upgrade requires you have the following software:

- Navis OMS + latest service pack
- WaveStar® ITM-SC + latest service pack
- ITM-CIT R14.04.02 (SAA615E) (Fully supports Metropolis® AMU Release 2.0.3)
- Metropolis® AMU NE Software Release 2.0.3

Important! Only one of the above mentioned managers is needed.

Important! CIT and NE Software are available on CD-ROM (see table below):

Software	Comcode for the CD-ROM
NE Software Release 2.0.3 (ASW105D)	109584631
CIT Software Version R14.04.02 (SAA615E)	109584995

Important! Customers that have a password and privileges can download the NE software as a self-extracting WinZip package from the following website:

<http://www.lucent.com>

Lucent engineers can also use the TSS ONG Product Support website on the Lucent intranet (for training, test and demonstration purposes):

<http://ong.nl.lucent.com/tss/>

ITM-SC service packs should be obtained via your local Lucent Technologies support contact.



NE Maintenance Upgrade with WaveStar® ITM-SC

Purpose This document describes a field upgrade of the Metropolis® AMU NE Software to Release 2.0.3 via the WaveStar® ITM-SC.

Before you begin The Metropolis® AMU network is running in a release not lower than Release 2.0.x

During the network upgrade the following actions must be avoided:

- NE provisioning
- Insertion of new equipment
- Replacement of NE hardware

Before upgrading the NE you should:

1. Read the ‘NE Software Upgrade General’ section.
2. Check that the NE is alarm free prior to beginning with the upgrade.

Task This procedure consists of the following parts, each described separately:

- Install the NE software on the ITM-SC (1)
- Download the NE software to the NE (2)
- Activate the NE software (3)
- Final check (4)

(1.a) Install the NE Software from CD-ROM with use of the ITM-SC

This procedure describes how to copy the NE software from the CD-ROM to the WaveStar® ITM-SC Server or Standalone, making use of the ITM-SC CD-ROM device.

To install the NE software you have to perform the following action:

Action	Result	Time
Copy NE software to ITM-SC server	Software will be copied to the /tmp directory	10 min.

A step by step instruction is given below:

Mounting CD-ROM on HP-UX

-
- 1 Login as root <password>

 - 2 Create the mount point by entering:
host> mkdir /cdrom
host> ioscan -funC disk (find CD-ROM device name)
host> mount /dev/rdisk/cXtXd0 /cdrom
where cXtXd0 is the CD-ROM device file on your machine.

 - 3 In case of an ITM-SC Standalone, copy the *.S3 file to the NE load directory with:
host> cp/cdrom/*.S3 /opt/itm/sc/<version>/ems/mec/cmux/

 - 4 In case of an ITM-SC Client copy the *.S3 file to a temporary directory
host> cp/cdrom/*.S3 /tmp

 - 5 Set up an FTP connection to the ITM-SC Server and FTP in binary mode the *.S3 file to the following directory:
host> cd /opt/itm/sc/<version>/ems/mec/cmux/

Important! To find the current release path (indicated as <version> in above procedures), login as i2kadmin <password> using Telnet to the ITM-SC Server or Standalone and type:
host>. itmnc_setup (mind the dot!)
host> echo \$EMSAPPLDIR

 - 6 Unmount CD-ROM Drive:
host> cd /
host> umount /cdrom

END OF STEPS

(1.b) Install the NE Software from CD-ROM with use of a PC

This procedure describes how to install the NE software from a CD-ROM onto the WaveStar® ITM-SC Server or Standalone using a Personal Computer.

To install the NE software you have to perform the following action:

Action	Result	Time
Transfer the NE load from the CD-ROM which is inserted into the PCs CD-ROM drive to the ITM-SC server or stand-alone system by using "FTP."	The software files will be copied to a temporary location on the ITM-SC Server or stand-alone	5 min.

A step by step instruction is given below:

Important! Prerequisite: PC connected to ITM-SC LAN

-
- 1 Start FTP client on PC and connect to ITM-SC Server or Stand-alone using user account i2kadmin <password>

-
- 2 Go to the following directory on the ITM-SC:
`cd /opt/itm/sc/<version>/ems/mec/cmux/`

Important! To find the current release login as i2kadmin <password> using Telnet to the ITM-SC server or Standalone and type:

```
#. itm_sc_setup (mind the dot!)
#echo $EMSAPPLDIR
```

-
- 3 FTP in binary mode the *.S3 file from the CD-ROM to the ITM-SC.

END OF STEPS

(1.c) Import NE software into ITM-SC database

This procedure describes how to import the NE software file name into WaveStar® ITM-SC database.

To install the NE software you have to perform the following action:

Action	Result	Time
Import file name into ITM-SC database	The NE software will be selectable in the ITM-SC application	5 min.

A step-by-step instruction is given below:

-
- 1 Login as i2kadmin <password>

 - 2 host>. itmsc_setup (mind the dot!)

 - 3 host> echo \$EMSDBNAME --> Get the name of the database (e.g., i2000r112)

 - 4 host> nql ---> start nql (now you get the nql> prompt).

 - 5 nql> database <databasename>; ---> select database (use value found with echo \$EMSDBNAME) (don't forget the ';').
 database has transactions ---> response from nql
 database is not in mode ANSI
 Version: 12S2.E112.49

 - 6 nql> insert into software_file values ("mec.S3",0); ---> (replace "mec.S3" with the actual file name).
 nql> <Ctrl> D

 - 7 Now the file “mec.S3” is known in the database.

END OF STEPS

(2) Download the NE Software to the NE

This procedure describes how to download a new NE software release to an NE from the WaveStar® ITM-SC and will take approximately 25 minutes.

The software download is not traffic affecting.

Important! It is recommended not to execute more than 10 software downloads at a time, in order to prevent DCN performance problems.

A step by step instruction is given below:

-
- 1 In the WaveStar® ITM-SC System View window, select ***Provisioning, Equipment, NE Software Inventory***

The window “**EMS - Provisioned NE Software Inventory**” appears.

-
- 2 Press “...” to select the NE from the “**EMS - NE Selection Dialog**” window and click **OK**.

-
- 3 Press “**Edit**,” select the software version from the list of loaded files, tag “***Start Software Download***,” and click “**Apply**.”

-
- 4 Track the download progress in the sub window “***Messages***”.

-
- 5 Wait until the sub window “***Messages***” displays “***Download Completed***” and close the window.

The new software load has now been downloaded to the NE.

END OF STEPS

(3) Activate the NE Software

This procedure describes how to activate a new NE software release and will take approximately 25 minutes.

Important! As a result of this action, a system reset will be initiated and the communication to the NE will be lost for approximately 20 minutes. After this time has elapsed, the NE can once again be managed via the WaveStar® ITM-SC.

Activate SW From ITM-SC GUI

To activate the software via the ITM-SC follow the step-by-step instruction given below:

-
- 1 In the WaveStar® ITM-SC System View window, select **Provisioning, Equipment, NE Software Inventory**.

The window “**EMS - Provisioned NE Software Inventory**” appears.

-
- 2 Press “...” to select the NE from the “**EMS - NE Selection Dialog**” window and click **OK**.

-
- 3 Press “**Edit**,” tag “**Switch (No MIB Clear)**,” and click “**Apply**.”

-
- 4 Read the warning and if you agree, click **Yes**.

-
- 5 The sub window “**Messages**” displays “**Operation Started**” and if successful, followed by “**Operation Successful**.”

The new software load has now been activated.

.....
E N D O F S T E P S
.....

Important! It can take several minutes before the ITM-SC detects the association with the Network Element to be down!

(4) Final Check This procedure describes how to verify whether the upgrade was performed successfully or not.

Make sure that:

- The traffic is working properly
- The NE is running in the correct NE load; this can be seen in the window “**EMS - Provisioned NE Software Inventory**” (*Provisioning, Equipment, NE Software Inventory*)
- Other nodes in the ring show no unexpected/new alarms;
- There are no new unexpected alarms on the shelf.



NE Maintenance Upgrade With the ITM-CIT

Purpose This procedure describes a field upgrade of the NE Software to Release 2.0.3 via the ITM-CIT.

Important! This section is applicable for upgrades from Release 2.0.x to Release 2.0.3. To upgrade a Metropolis[®] AMU Network Element from a release older than Release 2.0.x please contact your local Lucent Technologies support group.

Before you begin Prior to performing this task, you must:

1. Read the '*NE Software Upgrade General*' section
2. Always use the ITM-CIT version corresponding to the NE release you are upgrading to.
3. Connect the ITM-CIT to the CIT interface of the subjected NE/ring.
4. The NE should be Alarm free prior to beginning with the upgrade.

Task This procedure consists of the following parts, each described separately:

- Download the NE software
- Activate the NE software
- Final check

Metropolis[®] AMU NE Software Upgrade With ITM-CIT

This procedure describes how to download a new NE software release to a NE from the ITM-CIT. The software download is not traffic affecting. The NE will not be provisionable during the generic download.

A step-by-step instruction is given below:

-
- 1 Place the CD-ROM into the CD-ROM drive.
-

- 2 Start up the ITM-CIT and log in.

-
- 3** Go to the menu Provisioning, Equipment, NE Software Configuration, then press Edit

Result: A new window will appear.

- 4** Choose Download. Go to the ISD directory and select the file to download and then press Open. This may take up to 1 hour.

Result: The new NE software will be presented as being available (but inactive) in the backup store.

- 5** Press Edit again. Under Switch Store, click on the box Retain MIB. Then press on the Switch button.

Result: After a short while, the ITM-CIT will disconnect.

- 6** After approximately 5 minutes, you can log in again with the ITM-CIT.
-

- 7** Go to the menu Provisioning, Equipment, NE Software Configuration and press Edit. Then press Commit.

Important! If the software switch is not committed within 2 hours, the software will switch back to the previous release.

- 8** Check that the system works normally and error-free.

END OF STEPS



NE Maintenance Upgrade with Navis OMS

Purpose This document describes a field upgrade of the Metropolis® AMU NE Software to Release 2.0.3 via the Navis OMS.

Before you begin The Metropolis® AMU network is running in a release not lower than Release 2.0.x

During the network upgrade the following actions must be avoided:

- NE provisioning
- Insertion of new equipment
- Replacement of NE hardware

Before upgrading the NE you should:

1. Read *NE Software Upgrade General: page 4-3*.
2. Check that the NE is alarm free prior to beginning with the upgrade.

Task This procedure consists of the following parts, each described separately:

1. Install the NE software on the OMS.
2. Download the NE software to the NE.
3. Activate the NE software.
4. Final check.

1. Install the NE Software From CD-ROM With Use of the OMS

This procedure describes how to copy the NE software from the CD-ROM to the Navis OMS.

To install the NE software, the following action must be performed

Action	Result	Time
Copy NE software to OMS server	Software will be copied to the /var/opt/lucent/ftp/pub/sw/AMU directory	10 min.

A step-by-step instruction is given below:

- 1 Put the CD-ROM with the NE sw in the CD/DVD.
.....
- 2 Login onto the Navis OMS as a user with software management privileges.
.....
- 3 Open the network element/software screen.
.....
- 4 Select the New (action) button in the right top corner of the screen. A new window will open which allows you to import the software.
.....
- 5 In the NE Type pull-down menu, select Metropolis[®] AMU and the NE Generic.
.....
- 6 After selecting Submit the software will be copied to the server.
.....
- 7 Wait until you get the message “A new NE generic for Metropolis[®] AMU has been successfully transferred to the management system”.

.....
E N D O F S T E P S
.....

2. Download the NE Software to the NE

This procedure describes how to download a new NE software release to an NE from the Navis OMS and will take approximately 25 minutes.

Important! It is recommended not to execute more than 10 software downloads at a time, in order to prevent DCN performance problems.

The software download is not traffic-affecting.

A step-by-step instruction is given below:

-
- 1 Return to the Network Elements Software Menu and select NE generic and NE.

 - 2 At NE type and NE name, select Metropolis[®] AMU and the name of the NE you want to download the software to, Then press Search.

 - 3 You will get information about the active and inactive store of the NE. From the bottom of the screen, select “Transfer NE generic from management system to NE” and press GO.

 - 4 Wait until you get the message that the software has been successfully downloaded to the NE.

END OF STEPS

3. Activate the NE Software

This procedure describes how to activate a new NE software release and will take approximately 25 minutes.

Important! As a result of this action, a system reset will be initiated and the communication to the NE will be lost for approximately 20 minutes. After this time has elapsed, the NE can once again be managed via the Navis OMS.

Activate SW From OMS

To activate the software via the ITM-SC follow the step-by-step instruction given below:

- 1 Return to the Network Elements Software menu and select NE generic and NE.
- 2 At NE type and NE name, select Metropolis® AMU and the name of the NE you want to upgrade; then press Search.
- 3 You will get information about the active and inactive store of the NE. Verify that the inactive store shows the correct Item Code.
- 4 From the bottom of the screen, select “Activate: No Mib clear” and press Go.
- 5 Wait until you get the message that the operation was successful.

END OF STEPS

4. Final Check This procedure describes how to verify whether the upgrade was performed successfully or not.

Make sure of the following:

1. The traffic is working properly;
2. The NE is running in the correct NE load. This can be seen in the window “Network Elements Software Menu, NE generic, NE name, search.”
3. Other nodes in the ring show no unexpected/new alarms.
4. There are no new unexpected alarms on the shelf.

Downgrade from R2.0.x to R1.0.

In case a Network Element should operate on AMU software Release 1.0 while the available main card contains Release 2.0.x or higher, it is mandatory to downgrade to R1.0.1 instead of R1.0. Downgrade to release 1.0 is not supported and might result in an inaccessible system. Release 1.0.1 is available with Lucent Comcode 109509463.

NE Hardware Upgrade

Upgrade operational main units ASC101 to ASC101B

To benefit from the additional features of the enhanced MAIN card with item code ASC101B an upgrade procedure is described. This procedure must be followed to ensure proper operation of the Network Element.

Be aware that in case only ITM-CIT management is available during the upgrade the complete MIB needs to be re-created.

Important! When the additional “B” features are not needed the ASC101B can be used as a replacement without changing the itemcode.

Initial state:

- Both Main1 and Main2 are assigned as ASC101 units.
- Both Main1 and Main2 are fault free.

Using ITM-SC:

Issue a "Forced switch to protection" switch request. This ensures Main1 becomes the active unit.

For Main2, pull the ASC101 unit and insert an ASC101B unit.

After the Main2 unit has recovered (fail LED off), re-assign Main2 to ASC101B.

Important! Re-assignment needs to be done by ITM-CIT as ITM-SC can not make a distinction between the two cards.

Wait until Main2 is fault free.

Issue a "Lockout" switch request. This ensures that Main2 becomes the active unit.

For Main1, pull the ASC101 unit and insert an ASC101B unit.

Important! The new Main1 unit should have the correct SW image.

Download the MIB from the ITM-SC to the NE. At the end of this MIB Download the NE resets.

After the association between ITM-SC and NE has been re-established, re-assign Main1 to ASC101B. This causes another reset of the NE.

Important! Re-assignment needs to be done by ITM-CIT as ITM-SC can not make a distinction between the two cards.

After the association between ITM-SC and NE has been re-established again, issue a "Clear" switch request.

Using ITM-CIT

Issue a "Forced switch to protection" switch request. This ensures Main1 becomes the active unit.

For Main2, pull the ASC101 unit and insert an ASC101B unit.

After the Main2 unit has recovered (fail LED off), re-assign Main2 to ASC101B.

Wait until Main2 is fault free.

Issue a "Lockout" switch request. This ensures Main2 becomes the active unit.

For Main1, pull the ASC101 unit and insert an ASC101B unit.

Important! The new Main1 unit should have the correct SW image.

Create a node with the ITM-CIT with the minimum configuration, i.e. only Main1 assigned as ASC101.

Pre-provision the NE with the exact same configuration including all cross connections etc.

Do a "Confirm MIB". The NE resets.

After the connection between ITM-CIT and NE has been re-established, re-assign Main1 to ASC101B. This causes another reset of the NE.

After the connection between ITM-CIT and NE has been re-established again, issue a "Clear" switch request.

Important! This procedure is also valid for “downgrading” units from ASC101B to ASC101. In this case the actions should be read as ASC101 being ASC101B and vice versa. A prerequisite is that the MAIN card in slot position one needs to be re-assigned to ASC101 prior the MIB download otherwise the download will fail. Additionally change the setting of Station clock input MTPx.1 to “not specified” or “2 Mhz” and Station clock output to “not specified” or “2 Mhz”. This is due to the fact that 2Mbit features are not available on the ASC101.

Main card equipment protection

Release 2.0.x continues to support main card protection. Systems that are running release 1.0.x and needs to be extended with main card equipment protection should proceed as follow:

Do not insert the second main card before the main card in slot position 1 is upgraded to Release 2.0.x.

Before assigning the second main card make sure the software version installed on this card is also Release 2.0.x. If not download Release 2.0.x using the Fast Download Tool connected to the G-LAN interface located on the second main card.

This upgrade behaviour in main slot 2 is only applicable when upgrading from AMU Release 1.0.1. All subsequent releases support the automatic synchronization of main slot 2 to main slot 1.





5 Miscellaneous

Overview

Purpose This section describes the technical support available for Metropolis[®] AMU.

Reason for revision This is the first issue.

Contents This chapter contains the following:

Technical Support Services (TSS)	5-2
--	-----



Technical Support Services (TSS)

Technical Support Groups	<p>Technical support is available through:</p> <ul style="list-style-type: none"> • Local/Regional TSS. • TSS ONG Global Product Support Netherlands.
Contacting Your Local/Regional TSS	<p>Local/Regional Technical Support Services (TSS) personnel troubleshoot field problems 24 hours a day over the phone and on site (if necessary) based on Lucent Service Contracts.</p> <p>For Technical assistance, call your Local/Regional TSS team or the International Customer Management Center (ICMC) at 00800 00 lucent (toll free inside EMEA) or +353 1 6924579 (toll) for in-hours and emergency out-of-hours support. If the request cannot be solved by Local Regional TSS, it will be escalated to the TSS ONG Global Product Support Netherlands team.</p>
Product Support	<p>Lucent Technologies TSS ONG Global Product Support Netherlands organization is committed to providing customers with quality product support services. Each segment of the TSS organization regards the customer as its highest priority and understands your obligations to maintain quality services for your customers.</p> <p>The TSS team maintains direct contact with Lucent Technologies manufacturing, Bell Laboratories development, and other organizations to assure fast resolution of all assistance requests.</p>
Services	<p>Metropolis[®] AMU is complemented by a full range of services available to support planning, maintaining, and operating your system. Applications testing, network integration, and upgrade/conversion support is also available.</p>
A technical support Platform	<p>A global online trouble tracking system is used by all support teams to track customer assistance requests. The system communicates details about product bulletins, troubleshooting procedures, and other critical information to customers. All details of a request are entered into this database until closure. For online access to your trouble tickets via the web please contact your local support team.</p>

Reference For additional information about technical support, please contact your Lucent Local/Regional Technical Support Services or visit <http://www.lucent.com/support>.



