



Alcatel-Lucent 1300

XMC | R6.2.0.3

EXTERNAL RELEASE NOTES

ALCATEL-LUCENT PROPRIETARY

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

3BL65277GCAAFMZZA

05/06/2008

04

Alcatel, Lucent, Alcatel-Lucent and the Alcatel-Lucent logo are trademarks of Alcatel-Lucent. All other trademarks are the property of their respective owners.

The information presented is subject to change without notice. Alcatel-Lucent assumes no responsibility for inaccuracies contained herein.

Copyright © 2007 Alcatel-Lucent. All Rights Reserved.

Security statement

The technical information of this manual is the property of ALCATEL-LUCENT and must not be copied, reproduced or disclosed to a third party without written consent.

Limited warranty

Alcatel-lucent makes no warranty of any kind with regards to this manual, and specifically disclaims the implied warranties of merchantability and fitness for a particular purpose. Alcatel-lucent will not be liable for errors contained herein or for damages, whether direct, indirect, consequential, incidental, or special, in connection with the furnishing, performance, or use of this material.

Licenses

UNIX® is a registered trademark of UNIX System Laboratories in the USA and other countries.

OSF/Motif® is a trademark of the Open Software Foundation.

HP® is a registered trademark of Hewlett-Packard Corporation.

HP9000/700®, HP9000/800® and HP-UX® are trademarks of Hewlett-Packard Corporation.

Exceed® is a registered trademark of Hummingbird Ltd. company.

Netscape® is a trademark of Netscape Communications Corporation

Mozilla® is a trademark of The Mozilla Organization

Internet Explorer, Windows© are trademarks of Microsoft Corporation

OpenFusion® is a registered trademark of PrismTech Corporation.

Corba® is a registered trademark of the Object Management Group, Inc.

Java® is a registered trademark of Sun Microsystems, Inc.

MySQL® is a registered trademark of MySQL AB



Contents

| | |
|--|-------------|
| About this document | 8 |
| Purpose..... | 8 |
| Reason for reissue..... | 9 |
| Intended audience | X |
| Supported systems | X |
| Safety information | X |
| Conventions used..... | X |
| Related information | X |
| Document support..... | X |
| Technical support..... | X |
| How to order | X |
| How to comment..... | X |
| 1 Release components | 1-1 |
| Purpose..... | 1-1 |
| Contents | 1-1 |
| Software deliverables..... | 1-2 |
| How to obtain software..... | 1-19 |
| Maintenance Release Schedule..... | 1-20 |
| NE to solution mapping..... | 1-20 |
| Documentation deliverables..... | 1-21 |
| To obtain documentation | 1-27 |
| 2 New features | 2-1 |
| Purpose..... | 2-1 |
| Contents | 2-1 |

| | | |
|----------|--|-------------|
| | New features | 2-2 |
| | Functionality..... | 2-6 |
| | Release R6.2.0.3 | 2-6 |
| | Release R6.1.1.1 | 2-6 |
| | Release R6.1.0.6 | 2-8 |
| | Release R6.0.2.9 | 2-10 |
| | Release R6.0.1.5 | 2-12 |
| | Release R6.0.0.9 | 2-14 |
| | Enhancements | 2-16 |
| | Supported NE types and releases | 2-17 |
| | Release R6.2.0.3 | 2-19 |
| | Release R6.1.1.1 | 2-25 |
| | Release R6.1.0.6 | 2-28 |
| | Release R6.0.2.9 | 2-31 |
| | Release R6.0.1.5 | 2-33 |
| | Release R6.0.0.9 | 2-35 |
| 3 | Test results | 3-1 |
| | Purpose..... | 3-1 |
| | Contents | 3-1 |
| | System test results..... | 3-2 |
| | Functional test results..... | 3-3 |
| 4 | Changes to interfaces | 4-1 |
| | Purpose..... | 4-1 |
| | Contents | 4-1 |
| | Interface changes | 4-2 |
| | Release R6.2.0.3 | 4-2 |
| | Release R6.1.1.1 | 4-2 |
| | Release R6.1.0.6 | 4-2 |

| | | |
|----------|-------------------------------------|------------|
| | Release R6.0.2.9 | 4-2 |
| | Release R6.0.1.5 | 4-3 |
| | Release R6.0.0.9 | 4-4 |
| | Alarm changes..... | 4-5 |
| | Release R6.2.0.3 | 4-5 |
| | Release R6.1.1.1 | 4-5 |
| | Release R6.1.0.6 | 4-5 |
| | Release R6.0.2.9 | 4-5 |
| | Release R6.0.1.5 | 4-5 |
| | Release R6.0.0.9 | 4-5 |
| | Message changes | 4-6 |
| 5 | Resolved issues | 5-1 |
| | Purpose..... | 5-1 |
| | Contents | 5-1 |
| | Resolved issues | 5-2 |
| | Release R6.2.0.3 | 5-2 |
| | Release R6.1.1.5 | 5-3 |
| | Release R6.1.1.1 | 5-3 |
| | Release R6.1.0.4 | 5-4 |
| | Release R6.0.2.9 | 5-1 |
| | Release R6.0.1.5 | 5-3 |
| | Release R6.0.0.9 | 5-5 |
| 6 | Known issues | 6-1 |
| | Purpose..... | 6-1 |
| | Contents | 6-1 |
| | Functional restrictions..... | 6-2 |
| | Release R6.2.0.3 | 6-2 |
| | Release R6.1.1.1 | 6-2 |
| | Release R6.1.0.6 | 6-3 |

| | | |
|----------|---|------------|
| | Release R6.0.2.9 | 6-3 |
| | Release R6.0.1.5 | 6-3 |
| | Release R6.0.0.9 | 6-4 |
| | Known issues and workarounds | 6-5 |
| | FAULT MANAGEMENT | 6-5 |
| | NORTH INTERFACE | 6-6 |
| | MANAGED NE | 6-6 |
| | NE SOFTWARE AND DATA MANAGEMENT | 6-7 |
| | NETWORK MANAGEMENT | 6-9 |
| | PERFORMANCE MANAGEMENT | 6-9 |
| | XMC REDUNDANCY | 6-10 |
| | XMC SYSTEM MANAGEMENT | 6-10 |
| 7 | System requirements | 7-1 |
| | Purpose | 7-1 |
| | Contents | 7-1 |
| | Software requirements | 7-2 |
| | Hardware requirements | 7-2 |
| | HPUX platform | 7-2 |
| | LINUX platform | 7-2 |
| | Operator Workplace Computer | 7-3 |
| | Compatibility restrictions | 7-4 |
| | Third-party and other software/hardware requirements | 7-5 |
| 8 | Installation and upgrade notes | 8-1 |
| | Contents | 8-1 |
| | Performing first-time installation | 8-2 |
| | Performing upgrades | 8-4 |
| | Upgrade paths | 8-6 |
| | Security hardening | 8-7 |
| | Features activation | 8-8 |

Obtaining and installing third-party software.....8-9

About this document

Purpose

This Software Release document of the Alcatel-Lucent 1300 Cross Domain Maintenance Center (XMC) describes features/network element/hardware provided by this product. It contains also the interfaces evolution, the functional restrictions, the resolved issues and the known issues with their workaround.

The **New features, Changes to interfaces, Resolved issues** and **Functional restrictions** are cumulative from R6.0 release.

The **Software deliverables, Documentation deliverables** and **Known issues and workarounds** are applicable for **R6.2.0** release of the 1300 XMC product.

This release of the document is applicable from R6.2.0.3.

Reason for reissue

Table 1.1 Release notes reissue history

| Issue number | Date of issue | Description of changes |
|--------------|---------------|--|
| Ed 01 | 04/14/2008 | Document creation |
| Ed 02 | 04/23/2008 | Updated for template compliancy |
| Ed 03 | 05/15/2008 | Updated to : <ul style="list-style-type: none">- report remarks from RN 6.1.1.5- fix some links in the document- for template compliancy |
| Ed 04 | 05/21/2008 | Update Supported NE types and releases table in order to add new colums |

Intended audience

This document is intended to be used by Alcatel-lucent operations services teams.

Supported systems

See the section **System requirements**.

Safety information

None.

Conventions used

None.

Related information

None.

Document support

Not applicable.

Technical support

For technical support, visit www.alcatel-lucent.com (www.alcatel-lucent.com) and select **Support**.

How to order

To obtain customer documentation, please contact your Alcatel-Lucent support personnel.

How to comment

To comment on this information product, go to the Online Comment Form (<http://www.lucent-info.com/comments/enus>) or e-mail your comments to the Comments Hotline (comments@alcatel-lucent.com).





1 Release components

Overview

Purpose

The following list shows the release numbers and names of the software packages that make up the 1300 XMC software suite.

The scope of this edition is **1300 XMC R6.2.0.3**.

Contents

This chapter covers these topics.

| | |
|------------------------------|------|
| Software deliverables | 1-2 |
| How to obtain software | 1-19 |
| Maintenance Release Schedule | 1-20 |
| NE to solution mapping | 1-20 |
| Documentation deliverables | 1-21 |
| To obtain documentation | 1-27 |

Software deliverables

Software included in this release

XMC Operator Work Places Software

Table 1.1 XMC Operator Work Places Software

| Component Name | Version | Description |
|----------------|----------|---|
| Java (JRE) | 1.5.0-07 | Java runtime for XMC applications |
| Java (JRE) | 1.4.2-13 | Java runtime for XMC applications |
| Java (JRE) | 1.3.1-15 | Java runtime for iGGSN EML application (optional) |
| Exceed | 10 | X11 connectivity tool (optional) |

Case XMC/HP-UX Server

Table 1.2 XMC application software components release

| Component Name | Version | Description |
|----------------|---------|------------------------------------|
| AS | 6.5.1.5 | ALMAP AS Generic Component (HP6.5) |
| AS-P6.2 | 6.5.1.1 | ALMAP AS Generic Component (HP6) |
| AS-P7 | 6.5.1.1 | ALMAP AS Patch (HP6) |
| AS-P8 | 6.5.1.2 | |
| AS-P9 | 6.5.1.1 | |
| FM | 6.7.1.1 | ALMAP Fault Management 6.7 |
| FM-P0.1 | 6.7.1.2 | |

| Component Name | Version | Description | |
|----------------------|---------|--|------------------------------|
| FM-P1 | 6.7.1.3 | | |
| FM-P1.1 | 6.7.1.0 | | |
| FWK-RT-P002 | 6.5.1 | ALMAP FWK-RunTime-P002 HP6.5 | |
| FWK-RT-P10 | 6.5.1 | ALMAP FWK-RT patch HP6.5 | |
| FWK-RT-P3 | 6.5.1 | | |
| FWK-RT-P4 | 6.5.1 | | |
| FWK-RT-P5 | 6.5.1 | | |
| FWK-RT-P53 | 6.5.1 | | |
| FWK-RT-P7 | 6.5.1 | | |
| FWK-RT-P8 | 6.5.1 | | |
| FWK-RT-P9 | 6.5.1 | | |
| FWKACAPI7 | 7.2.0.0 | | ALMAP Fwk Access Control API |
| FWKACAPI7-P1 | 7.2.0.0 | | |
| HPUX_Patches4OMCCN_5 | B.11.11 | XMC Patch complements over GOLDQPK11i_B.11.11.0612.459 | |
| OMCCN3gppim | 5.2 | XMC 3GPP Server | |
| OMCCNades | 6.1 | XMC on line documentation tools | |
| OMCCNbackup | 6.2 | XMC Backup-Restore | |
| OMCCNcah | 6.2 | XMC Contextual Alarm Help | |
| OMCCNcoscf | 6.1 | XMC Corba Services configuration | |
| OMCCNdbcf | 6.1 | XMC database configuration | |

| Component Name | Version | Description |
|----------------|---------|--|
| OMCCNdmsccfg | 6.2 | XMC Configuration files for DMSCCM |
| OMCCNdmsccm | 6.2 | XMC Communication Manager for Atrium-based NEs |
| OMCCNe10cm | 6.2 | XMC E10HC4-based NE communication manager |
| OMCCNfmcf | 6.1 | XMC FM/AS configuration for XMC |
| OMCCNgeored | 6.1 | XMC Geographical Redundancy-IM and Plug-USM |
| OMCCNgst | 6.2 | XMC GPRS Subscriber Dumping Tool |
| OMCCNiggsncm | 5.4 | XMC IGGSN CM |
| OMCCNismccm | 6.1 | XMC ISMC Communication Manager |
| OMCCNitf | 6.2 | OMC-CN common interfaces |
| OMCCNmapview | 6.1 | XMC Network Map View |
| OMCCNneacd | 6.2 | XMC NE Access Control Domain |
| OMCCNnemgt | 6.2 | XMC Network Management USM |
| OMCCNnetraim | 6.2 | XMC Netra Server |
| OMCCNnetrausm | 6.2 | XMC Netra USM |
| OMCCNnrbin | 5.1 | XMC CONFWIN |
| OMCCNnrbusm | 6.2 | XMC NRB USM |
| OMCCNodk | 6.2 | XMC common libraries |
| OMCCNos2oscm | 5.5 | XMC OMC-CS/OMC-PS supervision |
| OMCCNplatform | 6.2 | XMC Monitoring-IM and Platform-USM |
| OMCCNpm | 6.2 | XMC Performance Files Manager |

| Component Name | Version | Description |
|---------------------|---------|--|
| OMCCNrds | 4.7 | XMC Remotized Desktop Switch |
| OMCCNseccf | 6.2 | XMC SEC configuration |
| OMCCNsnmpcfg | 6.2 | XMC configuration files for SNMPCM |
| OMCCNsnmpcm | 6.2 | XMC Communication Manager for SNMP NEs |
| OMCCNsnmpnitf | 6.1 | XMC SNMP North interface |
| OMCCNssocf | 6.2 | XMC SSO configuration for XMC |
| OMCCNsui | 6.2 | XMC Supervision Server |
| OMCCNswim | 6.2 | XMC SW Server |
| OMCCNswusm | 6.2 | XMC Software USM |
| OMCCNtoi | 6.2 | XMC Topology Server |
| OMCCNtomascm | 6.2 | XMC TOMIX-based NE communication manager |
| OMCCNust | 6.2 | XMC UMA Subscriber Tracing Tool |
| PIT | 1.0.1P3 | ALMAP Packaging and Installation Tools |
| SEC_ACIGUI | 7.2.1.6 | |
| SEC_ACIGUI-P0.1 | 7.2.1.3 | |
| SEC_ACIGUI-P1 | 7.2.1.4 | |
| SEC_ACIGUI-P2 | 7.2.1.1 | |
| SEC_ACIGUI_WEB | 7.2.1.6 | |
| SEC_ACIGUI_WEB-P0.1 | 7.2.1.3 | |
| SEC_ACIGUI_WEB-P1 | 7.2.1.4 | |

| Component Name | Version | Description |
|---------------------|---------|-------------|
| SEC_ACIGUI_WEB-P2 | 7.2.1.1 | |
| SEC_COMMON | 7.2.1.6 | |
| SEC_COMMON-P0.1 | 7.2.1.3 | |
| SEC_COMMON-P1 | 7.2.1.4 | |
| SEC_COMMON-P2 | 7.2.1.1 | |
| SEC_COMMON_WEB | 7.2.1.6 | |
| SEC_COMMON_WEB-P0.1 | 7.2.1.3 | |
| SEC_COMMON_WEB-P1 | 7.2.1.4 | |
| SEC_COMMON_WEB-P2 | 7.2.1.1 | |
| SEC_JACAPI | 7.2.1.6 | |
| SEC_JACAPI-P0.1 | 7.2.1.3 | |
| SEC_PWDMGR | 7.2.1.6 | |
| SEC_PWDMGR-P0.1 | 7.2.1.3 | |
| SEC_SERVER | 7.2.1.6 | |
| SEC_SERVER-P0.1 | 7.2.1.3 | |
| SEC_SERVER-P1 | 7.2.1.4 | |
| SEC_SERVER-P2 | 7.2.1.1 | |
| SEC_USERGUI | 7.2.1.6 | |
| SEC_USERGUI-P0.1 | 7.2.1.3 | |
| SEC_USERGUI-P1 | 7.2.1.4 | |

| Component Name | Version | Description |
|----------------------|---------|---|
| SEC_USERGUI-P2 | 7.2.1.1 | |
| SEC_USERGUI_WEB | 7.2.1.6 | |
| SEC_USERGUI_WEB-P0.1 | 7.2.1.3 | |
| SEC_USERGUI_WEB-P1 | 7.2.1.4 | |
| SEC_USERGUI_WEB-P2 | 7.2.1.1 | |
| SSO_GUI | 1.1.1.2 | The ALMAP Single Sign On, Login and Navigation Runtime GUIs |
| SSO_GUI-P0.1 | 1.1.1.2 | |
| SSO_GUI-P1 | 1.1.1.2 | |
| SSO_GUI-P2 | 1.1.1.4 | |
| SSO_SDK | 1.1.1.2 | The ALMAP Single Sign On, Login and Navigation SDK |
| SSO_SDK-P1 | 1.1.1.2 | |
| SSO_SERVERS | 1.1.1.2 | The ALMAP Single Sign On Runtime Servers |
| SSO_SERVERS-P0.1 | 1.1.1.2 | The ALMAP Single Sign On Runtime Servers |
| SSO_SERVERS-P1 | 1.1.1.2 | |
| SSO_SERVERS-P2 | 1.1.1.4 | |
| WACOMO_AMVGF_RT | 1.0.1.3 | ALMAP View GUI FWK Runtime: DEMOS |
| WACOMO_AMVGF_RT | 1.0.1P2 | ALMAP View GUI FWK Runtime: DEMOS |
| WACOMO_AMVGF_RT-P3 | 1.0.1.7 | |
| WACOMO_AMVGF_SDK | 1.0.1.3 | ALMAP View GUI FWK SDK and DIF SDK |
| WACOMO_AMVGF_SDK | 1.0.1P1 | |

| Component Name | Version | Description |
|---------------------------|-----------|------------------------------|
| WACOMO_AMVGF_SDK | 1.0.1P2 | |
| WACOMO_AMVGF_SDK-P2.1 | 1.0.1P2.1 | |
| WACOMO_AMVGF_SDK-P3 | 1.0.1.7 | |
| WACOMO_AMVGF_SDK-P4 | 1.0.1.1 | |
| WACOMO_AMVGF_SDK-P5 | 1.0.1.4 | |
| WACOMO_AMVGF_SDK-P6 | 1.0.1.0 | |
| WACOMO_AMVGF_SDK-P6.1 | 1.0.1.0 | |
| WACOMO_FWK_JAVAPACKAGE | 1.0.1.3 | ALMAP FRAMEWORK JAVA PACKAGE |
| WACOMO_FWK_JAVAPACKAGE | 1.0.1P2 | |
| WACOMO_FWK_JAVAPACKAGE-P3 | 1.0.1.7 | |
| WACOMO_FWK_JAVAPACKAGE-P4 | 1.0.1.1 | |
| WACOMO_FWK_JAVAPACKAGE-P5 | 1.0.1.4 | |
| WACOMO_FWK_JAVAPACKAGE-P6 | 1.0.1.0 | |
| WACOMO_LOGANDTRACE | 1.0.1.3 | ALMAP WACOMO LOG and TRACE |
| WACOMO_PWDPOLICY | 1.0.1.3 | ALMAP WACOMO PASSWORD POLICY |
| WACOMO_PWDPOLICY | 1.0.1P1 | |
| WACOMO_PWDPOLICY-P3 | 1.0.1.7 | |
| WACOMO_PWDPOLICY-P4 | 1.0.1.1 | |

| Component Name | Version | Description |
|-----------------------|---------|-----------------------------------|
| WACOMO_UDMWEB_RT | 1.0.1.3 | ALMAP WACOMO UDM RunTime Services |
| WACOMO_UDMWEB_RT | 1.0.1P1 | |
| WACOMO_UDMWEB_RT-P3 | 1.0.1.7 | |
| WACOMO_UDMWEB_RT-P4 | 1.0.1.1 | |
| WACOMO_UDMWEB_RT-P5 | 1.0.1.4 | |
| WACOMO_UDMWEB_RT-P6 | 1.0.1.0 | |
| WACOMO_UDMWEB_RT-P6.1 | 1.0.1.0 | |
| WACOMO_UDMWEB_SDK | 1.0.1.3 | ALMAP WACOMO UDM SDK Services |
| WACOMO_UDMWEB_SDK | 1.0.1P1 | |
| WACOMO_UDMWEB_SDK-P4 | 1.0.1.1 | |
| WACOMO_UDMWEB_SDK-P5 | 1.0.1.4 | |

Table 1.3 XMC Third party software components release XMC/HP-UX server side

| Component Name | Version | Description |
|----------------|------------------|---|
| BIND-920 | B.11.11.01.006 | BIND 9.2.0 |
| BUNDLE11i | B.11.11.0306.1 | Required Patch Bundle for HP-UX 11i, June 2003 |
| CORBASCRIP | 1.3.5 | CorbaScript 1.3.5 |
| GOLDBASE11i | B.11.11.0612.459 | Base Patches for HP-UX 11i v1, December 2006 |
| HPUXBase64 | B.11.11 | HP-UX 64-bit Base OS |
| HWEnable11i | B.11.11.0612.458 | Hardware Enablement Patches for HP-UX 11i v1, December 2006 |

| Component Name | Version | Description |
|----------------|------------------------|---|
| JacORB | 2.1.3.6 | Java ORB |
| Java15JDK | 1.5.0.05.00 | Java 1.5 JDK for HP-UX |
| MySQL | 4.1.20 | MySQL DB server |
| OpenFusion | 4.2.4 | OpenFusion Corba Services |
| OpenSSL | A.00.09.07-d.002 | Secure Network Communications Protocol |
| T1456AA | 1.4.2.12.00 | Java2 1.4 SDK for HP-UX |
| T1471AA | A.04.20.004 | HP-UX Secure Shell |
| TAO | 1.3.11 | OpenFusion TAO v1.3 |
| TCP-WRAPPERS | B.11.11.01.001 | TCP-WRAPPERS special release |
| hpuxwsApache | A.2.0.55.02 | HP-UX Apache-based Web Server |
| ixOpenLDAP | A.08.00- 2.3.32.002 | The Lightweight Directory Access Protocol |
| perl | D.5.8.3.B | Perl Programming Language |
| sudo | 1.6.8p7 | sudo |

Case XMC/LINUX Server

Table 1.4 XMC application software components release

| Component Name | Version | Description |
|----------------|---------|-------------------------------------|
| AS | 6.5.1.0 | ALMAP AS Generic Component (LINUX4) |
| AS-P1 | 6.5.1.1 | ALMAP AS Patch (LINUX4) |
| AS-P1.1 | 6.5.1.1 | |

| Component Name | Version | Description |
|----------------|---------|--|
| AS-P2 | 6.5.1.2 | |
| FM | 6.7.1.3 | ALMAP Fault Management 6.7 |
| FM-P0.1 | 6.7.1.1 | |
| FM-P0.1.1 | 6.7.1.1 | |
| FM-P1 | 6.7.1.5 | |
| FM-P1.1 | 6.7.1.0 | |
| FM-P1.1.1 | 6.7.1.0 | |
| FWK-RT | 6.5.1.2 | |
| FWK-RT-P1 | 6.5.1.0 | ALMAP FWK-RunTime LINUX4.0 |
| FWK-RT-P2 | 6.5.1.2 | ALMAP FWK-RunTime-P2 LINUX4.0 |
| FWKACAPI7 | 7.2.0.0 | ALMAP Fwk Access Control API |
| FWKACAPI7-P1 | 7.2.0.0 | |
| OMCCN3gppim | 5.2 | XMC 3GPP Server |
| OMCCNadeslx | 6.1 | XMC on line documentation tools |
| OMCCNbackup | 6.2 | XMC Backup-Restore |
| OMCCNcah | 6.2 | XMC Contextual Alarm Help |
| OMCCNcoscf | 6.1 | XMC Corba Services configuration |
| OMCCNdbcf | 5.1 | XMC database configuration |
| OMCCNdmccfg | 6.2 | XMC Configuration files for DMSCCM |
| OMCCNdmccm | 6.2 | XMC Communication Manager for Atrium-based NEs |

| Component Name | Version | Description |
|----------------|---------|---|
| OMCCNe10cm | 6.2 | XMC E10HC4-based NE communication manager |
| OMCCNfmcf | 6.1 | XMC FM/AS configuration for XMC |
| OMCCNgeored | 6.1 | XMC Geographical Redundancy-IM and Plug-USM |
| OMCCNgsst | 6.2 | XMC GPRS Subscriber Dumping Tool |
| OMCCNiggsncm | 6.2 | XMC IGGSN CM |
| OMCCNismccm | 6.1 | XMC ISMC Communication Manager |
| OMCCNitf | 6.2 | OMC-CN common interfaces |
| OMCCNmapview | 6.1 | XMC Network Map View |
| OMCCNneacd | 6.2 | XMC NE Access Control Domain |
| OMCCNnemgt | 6.2 | XMC Network Management USM |
| OMCCNnetraim | 6.2 | XMC Netra Server |
| OMCCNnetrausm | 6.2 | XMC Netra USM |
| OMCCNnrbbim | 5.1 | XMC CONFWIN |
| OMCCNnrbusm | 6.2 | XMC NRB USM |
| OMCCNodk | 6.2 | XMC common libraries |
| OMCCNos2oscm | 6.2 | XMC OMC-CS/OMC-PS supervision |
| OMCCNplatform | 6.2 | XMC Monitoring-IM and Platform-USM |
| OMCCNpm | 6.2 | XMC Performance Files Manager |
| OMCCNrds | 4.7 | XMC Remotized Desktop Switch |
| OMCCNseccf | 6.2 | XMC SEC configuration |

| Component Name | Version | Description |
|---------------------|---------|--|
| OMCCNsnmpcfg | 6.2 | XMC configuration files for SNMPCM |
| OMCCNsnmpcm | 6.2 | XMC Communication Manager for SNMP NEs |
| OMCCNsnmpnitf | 6.1 | XMC SNMP North interface |
| OMCCNssocf | 6.2 | XMC SSO configuration for XMC |
| OMCCNsui | 6.2 | XMC Supervision Server |
| OMCCNswim | 6.2 | XMC SW Server |
| OMCCNswusm | 6.2 | XMC Software USM |
| OMCCNtoi | 6.2 | XMC Topology Server |
| OMCCNtomascm | 6.2 | XMC TOMIX-based NE communication manager |
| OMCCNust | 6.2 | XMC UMA Subscriber Tracing Tool |
| PIT | 1.0.1P3 | ALMAP Packaging and Installation Tools |
| SEC_ACIGUI | 7.2.1.6 | |
| SEC_ACIGUI-P0.1 | 7.2.1.3 | |
| SEC_ACIGUI-P1 | 7.2.1.4 | |
| SEC_ACIGUI-P2 | 7.2.1.1 | |
| SEC_ACIGUI_WEB | 7.2.1.6 | |
| SEC_ACIGUI_WEB-P0.1 | 7.2.1.3 | |
| SEC_ACIGUI_WEB-P1 | 7.2.1.4 | |
| SEC_ACIGUI_WEB-P2 | 7.2.1.1 | |
| SEC_COMMON | 7.2.1.6 | |

| Component Name | Version | Description |
|---------------------|---------|-------------|
| SEC_COMMON-P0.1 | 7.2.1.3 | |
| SEC_COMMON-P1 | 7.2.1.4 | |
| SEC_COMMON-P2 | 7.2.1.1 | |
| SEC_COMMON_WEB | 7.2.1.6 | |
| SEC_COMMON_WEB-P0.1 | 7.2.1.3 | |
| SEC_COMMON_WEB-P1 | 7.2.1.4 | |
| SEC_COMMON_WEB-P2 | 7.2.1.1 | |
| SEC_JACAPI | 7.2.1.6 | |
| SEC_JACAPI-P0.1 | 7.2.1.3 | |
| SEC_PWDMGR | 7.2.1.6 | |
| SEC_PWDMGR-P0.1 | 7.2.1.3 | |
| SEC_SERVER | 7.2.1.6 | |
| SEC_SERVER-P0.1 | 7.2.1.3 | |
| SEC_SERVER-P1 | 7.2.1.4 | |
| SEC_SERVER-P2 | 7.2.1.1 | |
| SEC_USERGUI | 7.2.1.6 | |
| SEC_USERGUI-P0.1 | 7.2.1.3 | |
| SEC_USERGUI-P1 | 7.2.1.4 | |
| SEC_USERGUI-P2 | 7.2.1.1 | |
| SEC_USERGUI_WEB | 7.2.1.6 | |

| Component Name | Version | Description |
|-----------------------|-----------|---|
| SEC_USERGUI_WEB-P0.1 | 7.2.1.3 | |
| SEC_USERGUI_WEB-P1 | 7.2.1.4 | |
| SEC_USERGUI_WEB-P2 | 7.2.1.1 | |
| SSO_GUI | 1.1.1.2 | The ALMAP Single Sign On, Login and Navigation Runtime GUIs |
| SSO_GUI-P0.1 | 1.1.1.2 | |
| SSO_GUI-P1 | 1.1.1.2 | |
| SSO_GUI-P2 | 1.1.1.4 | |
| SSO_SDK | 1.1.1.2 | The ALMAP Single Sign On, Login and Navigation SDK |
| SSO_SDK-P1 | 1.1.1.2 | |
| SSO_SERVERS | 1.1.1.2 | The ALMAP Single Sign On Runtime Servers |
| SSO_SERVERS-P0.1 | 1.1.1.2 | |
| SSO_SERVERS-P.1 | 1.1.1.2 | |
| SSO_SERVERS-P.2 | 1.1.1.4 | |
| WACOMO_AMVGF_RT | 1.0.1.3 | ALMAP View GUI FWK Runtime: DEMOS |
| WACOMO_AMVGF_RT | 1.0.1P2 | |
| WACOMO_AMVGF_RT-P3 | 1.0.1.7 | |
| WACOMO_AMVGF_SDK | 1.0.1.3 | ALMAP View GUI FWK SDK and DIF SDK |
| WACOMO_AMVGF_SDK | 1.0.1P1 | |
| WACOMO_AMVGF_SDK | 1.0.1P2 | |
| WACOMO_AMVGF_SDK-P2.1 | 1.0.1P2.1 | |

| Component Name | Version | Description |
|---------------------------|---------|-----------------------------------|
| WACOMO_AMVGF_SDK-P3 | 1.0.1.7 | |
| WACOMO_AMVGF_SDK-P4 | 1.0.1.1 | |
| WACOMO_AMVGF_SDK-P5 | 1.0.1.4 | |
| WACOMO_AMVGF_SDK-P6 | 1.0.1.0 | |
| WACOMO_AMVGF_SDK-P6.1 | 1.0.1.0 | |
| WACOMO_FWK_JAVAPACKAGE | 1.0.1.3 | ALMAP FRAMEWORK JAVA PACKAGE |
| WACOMO_FWK_JAVAPACKAGE | 1.0.1P2 | |
| WACOMO_FWK_JAVAPACKAGE-P3 | 1.0.1.7 | |
| WACOMO_FWK_JAVAPACKAGE-P4 | 1.0.1.1 | |
| WACOMO_FWK_JAVAPACKAGE-P5 | 1.0.1.4 | |
| WACOMO_FWK_JAVAPACKAGE-P6 | 1.0.1.0 | |
| WACOMO_LOGANDTRACE | 1.0.1.3 | ALMAP WACOMO LOG and TRACE |
| WACOMO_PWDPOLICY | 1.0.1.3 | ALMAP WACOMO PASSWORD POLICY |
| WACOMO_PWDPOLICY | 1.0.1P1 | |
| WACOMO_PWDPOLICY-P3 | 1.0.1.7 | |
| WACOMO_PWDPOLICY-P4 | 1.0.1.1 | |
| WACOMO_UDMWEB_RT | 1.0.1.3 | ALMAP WACOMO UDM RunTime Services |
| WACOMO_UDMWEB_RT | 1.0.1P1 | |

| Component Name | Version | Description |
|-----------------------|---------|-------------------------------|
| WACOMO_UDMWEB_RT-P3 | 1.0.1.7 | |
| WACOMO_UDMWEB_RT-P4 | 1.0.1.1 | |
| WACOMO_UDMWEB_RT-P5 | 1.0.1.4 | |
| WACOMO_UDMWEB_RT-P6 | 1.0.1.0 | |
| WACOMO_UDMWEB_RT-P6.1 | 1.0.1.0 | |
| WACOMO_UDMWEB_SDK | 1.0.1.3 | ALMAP WACOMO UDM SDK Services |
| WACOMO_UDMWEB_SDK | 1.0.1P1 | |
| WACOMO_UDMWEB_SDK-P4 | 1.0.1.1 | |
| WACOMO_UDMWEB_SDK-P5 | 1.0.1.4 | |

Table 1.5 Third party software components release XMC/Linux server side

| Component Name | Version | Description |
|----------------|----------|---|
| JacORB | 2.1.3.6 | Java ORB |
| MySQL | 4.1.20 | MySQL DB server |
| OpenFusion | 4.2.4 | OpenFusion Corba Services |
| apache | 2.0.55 | The httpd Web server |
| bind | 9.2.4 | A DNS (Domain Name System) server. |
| hpmouse | 1.1.1 | hp High Performance ILO2 Mouse X Driver for Linux |
| j2sdk | 1.4.2_12 | Java(TM) 2 Software Development Kit, Standard Edition |
| jdk | 1.5.0_07 | Java(TM) 2 Platform Standard Edition Development Kit |

| Component Name | Version | Description |
|----------------|---------|--|
| omniORB | 4.0.6 | Utility programs |
| openldap | 2.3.32 | The configuration files, libraries, and documentation for OpenLDAP |
| openssl | 0.9.7a | The OpenSSL toolkit. |
| perl | 5.8.5 | The Perl programming language. |
| python | 2.6 | Files to provide standard top-level CORBA module for omniORBpy |
| Sudo | 1.6.7p5 | Allows restricted root access for specified users. |

Case XMC/HP-UX server

Table 1.6 Software deliverables - HP Server

| PRODUCT | CHECKSUM | REFERENCE | Creation | Upgrade |
|--------------------|-----------------------|---------------------|----------|---------|
| XMC (.tar) | 274295915 2530109440 | Dv 3BL409201852_002 | X | X |
| XMC (.iso) | 3773219373 2530715648 | Dv 3BL409201852_002 | X | X |
| HPUX11IV1_0406_CD1 | 210839636 539754496 | Cd 3BL409200600 | X | |
| HPUX11IV1_0406_CD2 | 3793854386 342523904 | Cd 3BL409200601 | X | |
| HPUX11IV1_0406_CD3 | 955427446 661913600 | Cd 3BL409200602 | X | |
| XMC_DOC | N/A | Cd 3BL412010434_001 | X | X |

Note : Checksums mentioned above can be checked using the UNIX command “cksum”:

- before burning CD from ISO image for HP-UX CDs,
- on site, before performing installation for XMC.

Note : HP-UX provided in HPUX_CD 1 to 3 is “HP-UX 11iv1 June 2004”.

Case XMC/Linux server

Table 1.7 Software deliverables - Linux server

| PRODUCT | CHECKSUM | REFERENCE | Creation | Upgrade |
|---------------------|-----------------------|---------------------|----------|---------|
| Smart Start CD 7.60 | 1119479746 515323904 | Cd 3BL409201643_001 | X | X |
| XMC (.tar) | 274295915 2530109440 | Dv 3BL409201852_002 | X | X |
| XMC (.iso) | 3773219373 2530715648 | Dv 3BL409201852_002 | X | X |
| RHEL43AS_X86_64 | 592528013 837691392 | Dv 3BL409201665_001 | X | |
| XMC_DOC | N/A | Cd 3BL412010434_001 | X | X |

Note: checksums mentioned above can be verified using the UNIX command “cksum”:

before burning CD/DVD from ISO image for Linux CDs,
on site, before performing installation for XMC.

Note: SmartStart CD is included in XMC delivery for convenience, but is supposed to be part of the HP delivery. Preferably use SmartStart CD delivered with HP hardware, since this may be linked to firmware updates.

How to obtain software

Go to Opale server: <http://webdt.ln.cit.alcatel.fr:8900/index.htm> and use user/password: public/public.

Maintenance Release Schedule

| ID | Task Name | May '08 | | | | | | | Jun '08 | | | | | | | Jul '08 | | | | | | | Aug '08 | | | | | | | Sep '08 | | | | | | | Oct '08 | | | | | | | Nov '08 | | | | | | | Dec '08 | | | | | | | Jan '09 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|-----------------------------|-------------------------------------|----|----|----|----|----|----|---------|----|----|----|----|---|---|---------|---|---|---|---|---|--------------|---------|----|----|----|----|----|--------------|---------|----|----|----|----|----|--------------|---------|----|----|----|----|----|--------------|---------|---|---|---|---|---|--------------|---------|---|---|----|----|----|--------------|---------|----|----|----|----|----|--------------|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | | | | | | | | | | | | | | | | | | | | |
| 4 | R6.2.0 Maintenance Releases | [Timeline bar from May 20 to Dec 1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | R6.2.0.3 | ◆ 16 May '08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | R6.2.0.4 | | | | | | | | | | | | | | | | | | | | | ◆ 20 Jun '08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | R6.2.1.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | ◆ 11 Jul '08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | R6.2.1.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ◆ 13 Aug '08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | R6.2.1.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ◆ 15 Sep '08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | R6.2.1.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ◆ 21 Oct '08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | R6.2.1.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ◆ 17 Nov '08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | R6.2.1.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ◆ 11 Dec '08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NE to solution mapping

N/A

Documentation deliverables

Documentation available for this release

Table 1.8 Hardware and procedures components

| TITLE | REFERENCE | Ed |
|--|-------------------|----|
| PRESENTATION COMPONENT | | |
| System Guide | none | - |
| HARDWARE COMPONENTS | | |
| ALU 1300 XMC PHR112 OMC CN R5.X, XMC R6.X POMC1130001 (see note 1) | 3BL630570014AHZZA | 01 |
| ALCATEL 1300 XMC PHR100 OMC CN based on rp54xx (see note 1) | 3BL784100001AHZZA | 02 |
| Alcatel 1300 OMC Assembly Manual for OMCCN with B2600 | 3BL619270001BHZZA | 04 |
| Alcatel 1300 OMC Assembly Manual for OMCCN with C8000 | 3BL770590001BHZZA | 04 |
| Alcatel 1300 XMC Assembly Manual for OMCCN with RP4440 (R6.x) – 22U rack | 3BL772630001BHZZA | 06 |
| ALU 1300 XMC Assembly Manual for XMC (R6.x) & QoSAC with DL380 G5 - 22U rack | 3BL957820001BHZZA | 01 |
| Alcatel 1300 OMC Assembly Manual for XMC R6.x (with DL580 G4 in a 22U rack) | 3BL776880001BHZZA | 03 |
| Alcatel 1300 OMC Assembly Manual for XMC (R6.X) with ML350 G5 | 3BL776890001BHZZA | 03 |
| PROCEDURES COMPONENTS | | |
| Generic MPI - Creating and upgrading - XMC R6.2.0 | 3BL59911GCAAPCZZA | 01 |
| MPI - XMC disk extension operations | 3BL77800GAAARJZZA | 03 |

| | | |
|--|-------------------|----|
| Installation Guide XMC R6.2 | 3BL59911GCAARJZZA | 01 |
| XMC R6.1.0 data handbook | 3BL59911GBAATCZZA | 03 |
| Guidelines for Network Deployment | 3BL77799GCAAPCZZA | 01 |
| Catalogue of the collection XMC_611_ACCEPTANCE | 3BL69081GBBAADZZA | 01 |

Note 1: PHR100 is intended for use in case existing rp54xx hardware is reused on customer field. In all other cases, PHR112 applies.

Table 1.9 Customer Documentation list

| TITLE | REFERENCE | Ed |
|---|-------------------|----|
| DOCUMENTATION COMPONENTS | | |
| Administration | | |
| Platform Administrator Guide | 3BL65020GBBAPCZZA | 02 |
| XMC R6.1 troubleshooting guide | 3BL59911GBAAREZZA | 02 |
| Configuration | | |
| GPRS Subscriber's Dumping Tool Operator Guide | 3BL77790GBAAPCZZA | 02 |
| NE Log Management | 3BL77945GBAAPCZZA | 01 |
| NE scripting Management | 3BL74380GABAPCZZA | 02 |
| NE Software and Data Management | 3BL77030GBAAPCZZA | 01 |
| Network Management | 3BL65018GBAAPCZZA | 04 |
| Network Map View Operator Guide | 3BL68886GAAAPCZZA | 02 |
| RA/RNC Management | 3BL76969GBAAPCZZA | 01 |
| UMA Subscriber Tracing Operator Guide | 3BL74372GBBAPCZZA | 01 |
| XMC Network Resources Browsing | 3BL59970GAAAPCZZA | 02 |
| Alarm Management | | |
| Fault Management | 3BL65017GBAAPCZZA | 01 |
| SNMP Alarm Forwarding | 3BL59971GAAAPCZZA | 02 |

| TITLE | REFERENCE | Ed |
|---|-------------------|----|
| Generic - Alarm Dictionaries | | |
| IP Device Alarm Dictionary | 3BL64732GAAARKZZA | 01 |
| OS6850 Alarm Dictionary | 3BL77804GBAARKZZA | 01 |
| QoSAC Alarm Dictionary | 3BL74361GBAARKZZA | 01 |
| Xmc Alarm Dictionary | 3BL65021GAAARKZZA | 03 |
| IP Multimedia System - Alarm Dictionaries | | |
| 5020 AGCF Alarm Dictionary | 3BL78182GBAARKZZA | 01 |
| 5020 CSC Alarm Dictionary | 3BL74378GAAARKZZA | 02 |
| 5020 Mgc12ux Alarm Dictionary | 3BL68881GAAARKZZA | 01 |
| 5350 IAS Alarm Dictionary | 3BL68875GCAARKZZA | 01 |
| 5350 VCC Alarm Dictionary | 3BL78184GBAARKZZA | 01 |
| 5430 SRB Alarm Dictionary | 3BL68882GAAARKZZA | 02 |
| 7510 MGW Alarm Dictionary | 3BL68884GCAARKZZA | 01 |
| 7510 TGW Alarm Dictionary | 3BL68884GAAARKZZA | 01 |
| 7515 MGW Alarm Dictionary | 3BL68888GAAARKZZA | 01 |
| 7720 ABC Alarm Dictionary | 3BL68874GAAARKZZA | 02 |
| 8610 ICC Alarm Dictionary (volume 1/2) | 3BL68872GBAARKZZA | 01 |
| 8610 ICC Alarm Dictionary (volume 2/2) | 3BL68872GBABRKZZA | 01 |
| 8610 PPS Alarm Dictionary | 3BL68872GAAARKZZA | 01 |
| 8626 MMPR Alarm Dictionary | 3BL77783GAAARKZZA | 02 |
| 8640 CMM Alarm Dictionary | 3BL68870GAAARKZZA | 01 |
| 8640 CMM R5.0 Alarm Dictionary | 3BL68870GBAARKZZA | 01 |
| 8670 GUP Alarm Dictionary | 3BL68894GCAARKZZA | 01 |
| 8688 MRF R4.1 Alarm Dictionary | 3BL68873GAAARKZZA | 02 |

| TITLE | REFERENCE | Ed |
|---|-------------------|----|
| 8693 PRBT-SCP Alarm Dictionary | 3BL68879GAAARKZZA | 01 |
| 8693 PRBT-SMS Alarm Dictionary | 3BL68880GAAARKZZA | 01 |
| 8965 C3S Alarm Dictionary | 3BL68876GAAARKZZA | 01 |
| OMC-P Alarm Dictionary | 3BL77795GBAARKZZA | 02 |
| OMC-P Trouble Analysis Procedures | 3BL78185GBAARKZZA | 01 |
| UNC SGW ReefPoint Alarm Dictionary (volume 1/10) | 3BL74360GAAARKZZA | 01 |
| UNC SGW ReefPoint Alarm Dictionary (volume 2/10) | 3BL74360GAABRKZZA | 01 |
| UNC SGW ReefPoint Alarm Dictionary (volume 3/10) | 3BL74360GAACRKZZA | 01 |
| UNC SGW ReefPoint Alarm Dictionary (volume 4/10) | 3BL74360GAADRKZZA | 01 |
| UNC SGW ReefPoint Alarm Dictionary (volume 5/10) | 3BL74360GAAERKZZA | 01 |
| UNC SGW ReefPoint Alarm Dictionary (volume 6/10) | 3BL74360GAAFRKZZA | 01 |
| UNC SGW ReefPoint Alarm Dictionary (volume 7/10) | 3BL74360GAAGRKZZA | 01 |
| UNC SGW ReefPoint Alarm Dictionary (volume 8/10) | 3BL74360GAAHRKZZA | 01 |
| UNC SGW ReefPoint Alarm Dictionary (volume 9/10) | 3BL74360GAAIRKZZA | 01 |
| UNC SGW ReefPoint Alarm Dictionary (volume 10/10) | 3BL74360GAAJRKZZA | 01 |
| New Generation Network - Alarm Dictionaries | | |
| F5 Load Balancer Alarm Dictionary | 3BL64731GAAARKZZA | 01 |
| Packet Switching - Alarm Dictionaries | | |
| Access Stack Alarm Dictionary | 3BL64724GAAARKZZA | 02 |
| ASB CG Alarm Dictionary | 3BL78188GCAARKZZA | 01 |
| Charging Gateway Alarm Dictionary | 3BL64718GAAARKZZA | 01 |
| Cisco 3750 Catalyst Alarm Dictionary | 3BL64717GAAARKZZA | 01 |
| Cisco GGSN Alarm Dictionary | 3BL64719GAAARKZZA | 01 |
| Cisco router Alarm Dictionary | 3BL64723GACARKZZA | 02 |

| TITLE | REFERENCE | Ed |
|---|-------------------|----|
| Distribution Stack Alarm Dictionary | 3BL64725GAAARKZZA | 02 |
| DNS Alarm Dictionary | 3BL64722GAAARKZZA | 01 |
| IGGSN Alarm Dictionary | 3BL59933GAAARKZZA | 01 |
| iIGGSN Router Alarm Dictionary | 3BL64727GAAARKZZA | 02 |
| Iu Front-End Alarm Dictionary | 3BL64721GAAARKZZA | 01 |
| SGSN Router Alarm Dictionary | 3BL64726GAAARKZZA | 02 |
| Unlicensed Mobile Access - Alarm Dictionaries | | |
| UNC GW ConverT1E1 Alarm Dictionary | 3BL64730GAAARKZZA | 01 |
| UNC GW Router Alarm Dictionary | 3BL64728GAAARKZZA | 02 |
| UNC SGW Netrake Alarm Dictionary | 3BL64729GAAARKZZA | 01 |
| Wireless Call Server based - Alarm Dictionaries | | |
| Atrium R1.0 Alarm Dictionary (5020 S-UNC) | 3BL64735GACARKZZA | 01 |
| Atrium R3.0 Alarm Dictionary (Atrium DMSC / UNC CS-MGW / UNC SigGW / 5020 WCS / 7540 WMG) | 3BL59926GACARKZZA | 01 |
| Atrium R3.1x, R3.2x Alarm Dictionary (Atrium DMSC / UNC CS-MGW / UNC SigGW / 5020 WCS / 7540 WMG) | 3BL64720GACARKZZA | 02 |
| Atrium R3.4x Alarm Dictionary (Atrium DMSC / UNC CS-MGW / UNC SigGW / 5020 WCS / 7540 WMG) | 3BL64733GACARKZZA | 02 |
| Atrium R4.2x Alarm Dictionary (Atrium DMSC / UNC CS-MGW / UNC SigGW / 5020 WCS / 7540 WMG) | 3BL64734GACARKZZA | 03 |
| Atrium R4.3x Alarm Dictionary (Atrium DMSC / UNC CS-MGW / UNC SigGW / 5020 WCS / 7540 WMG) | 3BL68877GBBARKZZA | 01 |
| Atrium R4.4x Alarm Dictionary (Atrium DMSC / UNC CS-MGW / UNC SigGW / 5020 WCS / 7540 WMG) | 3BL78189GBBARKZZA | 01 |
| Performance Management | | |
| Performance Management | 3BL65019GBAAPCZZA | 02 |
| Generic - Counter List | | |

| TITLE | REFERENCE | Ed |
|-------------------------------------|-------------------|----|
| IP Device Counter list | 3BL64752GAAAPCZZA | 01 |
| F5 LOAD BALANCER Counter list | 3BL64751GAAAPCZZA | 01 |
| OS 6850 Counter list | 3BL77804GBAAPCZZA | 01 |
| IP Multimedia System - Counter List | | |
| 5350 IAS Counter list | 3BL68875GCAAPCZZA | 01 |
| 5350 VCC Counter list | 3BL78184GBAAPCZZA | 02 |
| 5430 SRB Counter list | 3BL68882GAAAPCZZA | 02 |
| 5750 SSC Counter list | 3BL68883GAAAPCZZA | 02 |
| 7510 MGW Counter list | 3BL68884GCAAPCZZA | 01 |
| 7510 TGW Counter list | 3BL68884GAAAPCZZA | 01 |
| 7515 MGW Counter list | 3BL68888GCAAPCZZA | 01 |
| 7720 ABC (R3.1) Counter list | 3BL68874GAAAPCZZA | 03 |
| 7720 ABC (R3.3) Counter list | 3BL68874GBAAPCZZA | 02 |
| ACME Counter list | 3BL68878GAAAPCZZA | 02 |
| UNC SGW Reefpoint Counter list | 3BL74360GAAAPCZZA | 01 |
| Packet Switching - Counter List | | |
| Access Stack Counter list | 3BL64744GAAAPCZZA | 01 |
| CHARGING GATEWAY Counter list | 3BL64738GAAAPCZZA | 01 |
| Cisco router Counter list | 3BL64743GACAPCZZA | 02 |
| CISCO 3750 Catalyst Counter List | 3BL64737GAAAPCZZA | 01 |
| Cisco GGSN Counter list | 3BL64739GBAAPCZZA | 01 |
| Cisco GGSN-MWAM/SAMI Counter list | 3BL78181GBABPCZZA | 02 |
| Cisco GGSN-SUP Counter list | 3BL78181GBAAPCZZA | 01 |
| Distribution Stack Counter list | 3BL64745GAAAPCZZA | 01 |

| TITLE | REFERENCE | Ed |
|---|-------------------|----|
| DNS Counter List | 3BL64742GAAAPCZZA | 01 |
| IGGSN Router Counter list | 3BL64747GAAAPCZZA | 01 |
| IU FRONT-END Counter list | 3BL64741GAAAPCZZA | 01 |
| SGSN Router Counter list | 3BL64746GAAAPCZZA | 01 |
| UNC GW Router Counter list | 3BL64728GAAAPCZZA | 01 |
| Unlicensed Mobile Access - Counter List | | |
| UMA LCS latency delay statistics | 3BL74353GAAAPCZZA | 01 |
| UNC SGW Netrake Counter list | 3BL64749GAAAPCZZA | 02 |

To obtain documentation

IMS Solution and product documentation is available to IMS solution customers through On Line Customer Support (OLCS).

To navigate to OLCS:

- Go to <https://support.lucent.com/portal/productIndexByCat.do>
- Select the alphabetic section for the product or solution for which you require documentation.
For 1300 XMC documentation, select **#,A-C** and scroll to the **#** section to select **1300 XMC (Cross-Domain Management Center)**
- To obtain manuals, select **Manuals and Guides**. To obtain release notes, select **Release Information**.

For the time being, 1300 XMC documentation is available through GEDI.

To Navigate to customer documentation:

- Go to <http://gedi.ln.cit.alcatel.fr/gedi/>

- Select Documents, Access to published documents and search a document by the reference.



2 New features

Overview

Purpose

This chapter lists and details the features for this release. The features of the previous releases from R6 are also described.

Contents

This chapter covers these topics.

| | |
|---------------------------------|------|
| New features | 2-2 |
| Functionality | 2-6 |
| Enhancements | 2-16 |
| Supported NE types and releases | 2-17 |

New features

Following are new features included in this release:

Table 2.1 New features R6.2.0.3

| Feature ID | Description |
|------------|----------------------|
| 9792 | 8650 SDM 1.0 support |
| 10101 | Support of ILO2 |

Following are features included in previous releases:

Table 2.2 New features R6.1.1.1

| Feature ID | Description |
|------------|---|
| - | TOMIX WCS users/profiles broadcasting / |
| 6019 | XMC Gateway |
| 5174 | UMA Subscriber Tracing |
| 8378 | NE Friendly Name Modification |
| - | OMC-P Support Improvement |

Table 2.3 New features R6.1.0.6

| Feature ID | Description |
|------------------------|---------------------------------|
| - | Hierarchical topology tree view |
| - | Capacity Control |
| CAG177763 CAG176888 | NE backup improvement |
| 7513 | 7720/5350 OAM Logs |
| CAG183200 | NE log RSSI compliance |
| 7588 | GPRS subscriber tool |
| - | Acknowledged Alarm color |
| - | Modification of NE release |

Table 2.4 New features R6.0.2.9

| Feature ID | Description |
|------------|-------------------------|
| 6946 | Call server data backup |
| - | Capacity Control |
| 7565 | SNMP forwarder |
| CAG180561 | SVC improvment |
| 5215 | Multi-NE scripting |

| Feature ID | Description |
|------------|---------------------------------|
| CAG180347 | XMC Server Hardening |
| CAG171869 | Call server performance collect |
| 6825 | SNMP alarm resynchronization |

Table 2.5 New features R6.0.1.5

| Feature ID | Description |
|--|-----------------------------------|
| - | XMC Full backup improvement |
| CAG 173404 | XMC Server Hardening |
| CAG 141734 CAG 171674 | Credential management improvement |
| CAG 171661 CAG 173478 CAG 176200 CAG 174501 CAG 174566 | Securing Protocols |
| 5226 | Latency Report Management |

Table 2.6 New features R6.0.0.9

| Feature ID | Description |
|------------|---------------------------|
| | Support of LINUX platform |

| Feature ID | Description |
|------------|------------------------------|
| | NE Software Version Change |
| | NE Software Inventory |
| | NE System Backup |
| 5796 | Centralized Log Management |
| | Performance Management |
| | Map View |
| | Topology Export |
| | Security improvement |
| | Fault Management improvement |

Functionality

Release R6.2.0.3

8650 SDM 1.0 support

The 8650 SDM is a compound node composed of :

- Front-end NEs which are grouped in FEG (Front End Group)
- Back-End NEs which are grouped in NRG (Network Redundant Group)

The tree View has been improved in order to show this new hierarchy, moreover a specific algorithm regarding the propagation of the alarm severity in the SDM has been implemented in order to take into account the redundant aspect.

ILO2 support

Integrated Lights Out 2 (**iLO2**) management feature supported by the HP-UX Linux platform, allows an operator to pilot an XMC installation/upgrade from a remote site. XMC installation guide has been updated in order to described the procedure.

Topology Tree view improvement

The tree view has been improve in order to support :

1. A tree where NEs are organized per NE type,
2. A tree where NEs are organized per Geographical Site

Previous releases

Release R6.1.1.1

TOMIX/WCS users/profiles broadcasting

This feature provides a temporary workaround in order to help managing users and profiles in a distributed environment where users account and profiles are managed on each NE and on which SSO is required.

In the current implementation the XMC support the SSO step1 : authentication process is performed once toward the central database and authorization process is performed at each connection toward each local database.

Users account and profiles are located in the database of each NE, as a consequence they may have some discrepancies between all these databases. In order to help the administrator the XMC provides a set of UNIX scripts – reserved to axadmin - in charge of :

- broadcasting users and profiles from a reference node to target node(s).
- list users and profiles present on a node.
- delete users and profiles present on a node.

XMC Gateway

With the XMC distributed architecture the OWP (Operator Working Place) communicates directly with the NEs. Some customers want to separate network flows in dedicated sub-networks (example: transport, charging and management sub-networks), and require to have a clear separation between these networks, the XMC gateway feature answers to this requirement.

With this feature the XMC is configured as a gateway, it will accept incoming connections from OWP on so called “proxy ports” and redirect all data flow to/from target ports on NE. This feature is applicable to WEM client and telnet/ssh navigation toward WCS NEs only (release 3.41 or 4.31 minimum).

Configuration related to this feature is done through the site parameters, by default this feature is disabled.

UMA Subscriber Tracing

This feature is specific to UMA network, it allows an operator to request the tracing of an IMSI on some specific NEs. The NEs which support this feature are the Call Servers, the GGW and the AAA.

When the operator requests the tracing of an IMSI, the NEs log information concerning that IMSI into an ASCII files according to a specific format. Once ready these files are pushed by the NEs on the XMC, then the operator can consult the files from the XMC GUI.

NE Friendly Name Modification

Prior to 6.1.1.1 release, the modification of a NE friendly name is not supported, the proposed workaround is to delete the NE and to re-create it with a new friendly name. The drawback of such method is that all ‘objects’ attached to the NE still refer to the former friendly name and consequently can not be used.

Starting 6.1.1.1 release, the modification of the NE friendly name is allowed when the NE is not supervised, during the operation all the objects referring to the NE using the friendly name will be renamed accordingly.

OMC-P support improvement

The following improvements have been added to the OMC-P support :

- Alarms replay mechanism.

NE family support customization : provides a way to discover and supervise NEs per family. By default the XMC manages through OMC-P the LCP family only, whereas LCP NEs are managed through LCP Mi-Agent.

Release R6.1.0.6

Hierarchical topology tree view

Prior to 6.1.0 release, NE instances are displayed in the tree view in a flat manner: grouped per NE type. Starting 6.1.0 release, hierarchy between NE is shown when it comes to :

- NE Managers: OMC-P, OMC-CS, OMC-PS ...
- Physical compound NE: LCP ...
- Virtual compound NE: USDS, ...

Capacity Control

This feature controls the number of NE managed by the XMC according to the server hardware and the following policy:

- Each time a new NE is created (manually or automatically) the CREATED_NE counter is incremented.
- 2 type of threshold are defined :
 - NE_MAX_WARNING : when reached, the manual creation of the NE is accepted and a warning is displayed.
 - NE_MAX_BLOCKING : when reached, the manual creation of the NE is rejected and an error message is displayed
- When NEs are automatically discovered (through an other manager), the NE automatic creation is not rejected, however the CREATED_NE counter is incremented.
- Manually created NEs have a weight of 1, Discovered NEs have a weight of 0.6.

Table 2.7 Nb CPU/Threshold mapping table

| | 1 CPU | 2 CPU | 4 CPU | 6 CPU | 8 CPU |
|-----------------|-------|-------|-------|-------|-------|
| NE MAX WARNING | 8 | 25 | 50 | 80 | 120 |
| NE MAX BLOCKING | 12 | 30 | 60 | 90 | 150 |

NE backup improvement

NE data backup has been improved in redundant XMC configuration:

1. Backup data are replicated once ready, from the active to the ready XMC.
2. When a switchover occurs, the XMC notifies the Tomix nodes of the new backup server and software repository server location. Doing this, data backup or SVC operations done through the Tomix GUI will be performed according to the new server(s) location provided by the XMC.

7720/5350 OAM Logs

OAM logs for 7720 and 5350 nodes are periodically collected by the XMC, parsed and archived in the XMC database. These logs can be browsed using the log browsing application.

NE log RSSI compliance

OAM log management has been improved according to the following items:

- Exported data file format is a compressed tar file containing several CSV files.
- Every day logs are exported, the resulting file contains data related to the last 24 hours.
- Each CSV file is composed of a max number of lines, this parameter can be defined by the operator in the GUI.

GPRS subscriber tool

This tool allows an operator to retrieve information related to an IMSI on the supervised SGSN nodes.

Acknowledged Alarm color

Prior to 6.1.1.1 release, when an operator acknowledge an alarm whatever is the severity (thus its color), the acknowledged alarm turn grey, doing so once the alarm is acknowledged it is not possible to know its former severity.

Starting 6.1.1.1 release, when an operator acknowledge an alarm, the alarm keeps its original color, but turns pale, doing so will give to an operator 2 indications : the severity and the acknowledge status.

Modification of NE release

Prior to 6.1.0.6 the modification of a NE release is not authorized through the GUI. In order to do the operator must delete the concerned NE and re-create it with the new release.

Starting 6.1.0.6 the modification of a NE release is authorized through the GUI.

Release R6.0.2.9

Call server data backup

NE data backup is extended in order to support the call server.

Data backup is triggered by the XMC in scheduled or immediate mode, data are archived on a local or remote backup repository.

SNMP forwarder

The XMC when installed with this option, provides a limited set of functions : supervision of Tomix NE and forwarding of traps on the North interface.

This feature is useful to a customer who manages its network with an SNMP management system, such OS is able to manage traps, but not alarms issued by TOMIX NE. In such situation, the XMC acting as an snmp trap forwarder, will convert these alarms in traps, so that the customer will be able to manage the overall network (consult the traps) from one management system.

SVC improvment

Prior to the 6.0.2 release the Software version change (SVC) for Tomix NE provided by the XMC proposed the following operations :

- **Download** : transfer of the version on the NE
- **Activate** : install new version and restart the NE with the new version.
- **Validate** : make the new version the valid one.
- **Reject** : reject the new version and re-start the NE with the old valid version.

With the 6.0.2 release the XMC proposes the following operations

- **Download** : transfer of the version on the NE
- **Install** : install the new version
- **Start** : restart the NE with the new version.
- **Validate** : make the new version the valid one.
- **Reject** : reject the new version and re-start the NE with the old valid version.
- **Verify** : verify the consistency of the new or the running version

With this change makes the SVC implementation will be consistent on XMC and on Tomix GUI.

Multi-NE scripting

- The following items briefly describe this feature :
- This feature concerns Tomix and Atrium NEs.
- It allows an operator to execute scripts on a NE.
- Atrium NE supports cli scripts, whereas Tomix NE support corba script or python scripts.
- Scripts can be run in scheduled or immediate mode, toward one or several nodes.
- Result of the execution can be consulted any time after the job ends.

XMC Server Hardening

- **Apache server :**
 - **Sample files :** http samples files are removed in order to not provide useful information regarding the server.
 - **Files access :** access to files with .bak extension or CVS files is not allowed.
 - **Access Control (ACL) :** if security is installed, by default no host is authorized to connect to the server.
 - **Log :** http log files are moved on a dedicated file system (/var/adm for HPUX, /var/log for LINUX)
 - **Encryption :** only high/medium TLS1 or SSLV3 ciphering are accepted by the server.
- **Syslog :** a new configuration file is provided in order to be conform to RSSI recommendations.
- **Warning banner :** When security policy is installed, a banner will be displayed when an operator connects to the XMC through : http, https, ftp, sftp, telnet or ssh. The customer can change the default banner via the XMC GUI.
- **NTP server :** configuration has been changed to **restrict default nomodify notrust noquery**
- **LINUX IP stack :** configuration has been changed in order to be conform to RSSI configuration.
- **LINUX XINETD :** configuration has been changed in order to be conform to RSSI configuration.
- **HPUX INETD :** configuration has been changed in order to start processes using tcp-wrapper.
- **HPUX daemons :** when security policy is installed, rpc, ttdbserver, cimserver, nfs, ptydaemon, rbootd, xdcmp are no more started.
- **LINUX daemons :** when security policy is installed, anacron, atd, autofs, netfs, nfs, cups, portmap, rpcidmapd, rpcggsd, dhcp, named, gpm, ypbind, squid are no more started.
- **LINUX services :** when security policy is installed, chargin, cups-lpd, daytime-udp, echo-udp, finger, klogin kshell, rlogin, rsync, time-udp, chargin-udp, daytime , echo, eklogin, gssftp, krb5-telnet, rexec, rsh, time are no more started.

- **ACL support** : inetd/xinetd services uses tcp-wrapper. Access control to the XMC is supported by the files **hosts.allow** and **hosts.deny**. By default when security is not installed no control is done, and when security is installed no hosts is authorized to connect to the XMC. As a consequence of this new configuration access control through inetd.sec (HPUX) is no more supported.
- **Password aging** : scripts are provided in order to set password aging on all UNIX accounts, however by default this feature is disable.
- **SNMP community string** : On the north interface the community string is different from public and can be customized per upper-OS.

Call server performance collect

The Call Server provides performances files according to 2 formats :

- Multiples CSV files
- One tar file containing all the CSV files

Prior to release 6.0.2 the XMC collects only individual CSV files.

Starting release 6.0.2 the XMC supports both modes according to the following principles :

- By default the XMC collects the tar file if the call server has the following directory : /space/stats/KPI. If this directory does not exists the XMC will collect the CSV files.
- Collecting CSV files can be forced by setting the parameter PMDOMAIN.forcecsvcollect to TRUE. This parameter is located in /alcatel/omc1/OMC_DMSCCM/config/im/param.cfg.

SNMP alarm resynchronization

Alarm resynchronization is offered on SNMP north interface (refer to *SNMP Alarm Forwarding* operator guide).

Release R6.0.1.5

XMC Full backup improvement

Starting from XMC R6.0.1.5:

- The full backup operation ignores filesystems: /nedata/backup, /nedata/software, /nedata/perfs, /nedata/alarms. The reason for this is that full backup is intended to be performed only after software installation steps on XMC. Ignoring filesystems containing NE related data in full backup allows shorter full backup execution.
- Mirroring setup after full restore is no more done manually after full restore but instead managed by full restore script.

XMC Server Hardening

1. **SSH** : The configuration of the ssh server has been hardened according to RSSI recommendations and public key authentication is authorized.
2. **Apache** : The server is configured in secured mode only : http connections are no more accepted.
3. **NTP** : configured in order to not answer to query request.
4. **Telnet** : When the security rules are installed, telnet is disable.
5. **Ftp** : When the security rules are installed, ftp is disable.
6. **Tftp** : When the security rules are installed, tftp is disable.
7. **Home page** : When the security rules are installed, the XMC home page does not contain any sensitive information.

N.B. When security rules are applied, if some NE require use of disabled protocols (e.g. ftp/tftp for NE data backup feature, http for SSO), the concerned protocols may be enabled by administrator action.

Credential management improvement

Prior to release XMC 6.0.1 credentials used for communication with the nodes are 'hard coded' and defined per NE type.

Starting XMC 6.0.1 these credentials :

- Are stored in the database with encrypted password values
- Are defined for each Network Element,
- Can be modified by axadmin user only

These rules apply to all protocols used between the XMC and any node : ftp, sftp, telnet, ssh, corba, snmp.

Securing Protocols

XMC communicates - acting as a server or a client - with the network elements (NE), the operator working place (OWP) or the upper-OS using different protocols. The improvement done in this domain consist in using secured protocol whenever possible.

- Dynamic support for secured protocols

When the XMC communicates with a NE through a protocol, the XMC will dynamically adopt the more secured protocol if supported by the node.

This is applicable to the usage of :

- https instead of http
- ssh instead of telnet
- sftp instead of ftp.

XMC backup/software release server

When the XMC acts as a backup/software release server towards a Tomix NE, the transfer of the data between the XMC and the NE will be done using :

- sftp using public key authentication, if the node is based on a Tomix release \geq MD7 SP1
- ftp using login/password, if the node is based on a Tomix release $<$ MD7 SP1

Latency Report Management

The following items briefly describe this feature :

- This feature is specific to UMA network and concerns the WAS/AAA nodes.
- The XMC periodically builds a Latency report per NE which contains statistics about UMA Subscriber Location Service Based events.
- The calculated statistics concern latency measurement regarding 1 type of subscriber location event requests.
- The OMC polls periodically the WAS(s), gets the events files once ready and converts these files in a CSV format.
- Once a day the XMC :
- Polls the WAS/AAA nodes and gets the events files.
- Builds the reports based on statistics concerning the last day (00:00 to 00:00 local NE time).
- The format of the report is XML or CSV.
- The resulting reports are managed the same way its done for performance files : same policy for cleanup and same location.

Release R6.0.0.9

Support of LINUX platform

Starting with XMC 6.0 a new hardware (see **0**) and a new operating system RED HAT Linux (RHEL 4.0) is supported. XMC 6.0 software can now be run on HP Linux-based servers and HP HP-UX-based servers.

NE Software Version Change

- This feature concerns only some Tomix based Network Elements.
- It offers a way to change the software version of a node in immediate or scheduled mode toward one or several nodes.
- The Job management graphical interface allows the operator to consult the state of the software management job.

NE Software Inventory

- This feature concerns only some Tomix based Network Elements and 5020 WCS, UNC CS-MGW, ATRIM DMSC, UNC sigGW.
- It provides information about the software installed and running on the target node.

NE System Backup

- Prior to this release only NE data backup is supported.
- Since Software Version Change(SVC) is supported (see **Error! Reference source not found.**), system backup is also supported as part of the SVC operation and independently for some Tomix based NE.

Centralized Log Management

- This feature applies to XMC, Tomix-based Network Elements, and 5020 WCS, UNC CS-MGW, ATRIM DMSC, UNC sigGW.
- EMS/OAM logs of these NEs are periodically collected and archived in the XMC database.
- A new graphical interface allows an operator to consult the state of the log collections, to stop and start any collection at any time.
- Stop and start of collection are taken into account dynamically : without process restart.
- A new graphical interface allows an operator to consult, filter, sort and export the log information.

Performance Management

- A new graphical interface allows an operator to customize the management of performance collection : collect and reporting frequency, output format : xml/csv and counters to be collected (snmp NE types only).
- A new graphical interface allows an operator to consult the state of the performance collections, to stop and start any collection at any time.
- Stop and start of collection are taken into account dynamically : without process restart.

Map View

- A new interface allows an operator to visualize the network elements supervised by the XMC in a graphical map view.
- The operator will be able to place/research NEs on the map.
- The main operations available through the Network Management interface will also be available through this new interface.

Topology Export

- The list of declared (created via Network user interface) NE is exported in a text file.
- The text file /nedata/perfs/ListOfNes contains the friendly name, type and release of each NE.

Security improvement

XMC 6.0 is based on SSO 1.0 component which bring the following features :

- Password ageing
- Password history
- Changing password at first connection
- New portal look and feel
- Session management application

Fault Management improvement

XMC 6.0 is based on FM 6.6 component which bring the following features :

- Improved filters management
- Customizable alarm reception tones

Host declarer

The automatic OWP host declaration is performed after successful authentication only.

Enhancements

See previous chapter.

Supported NE types and releases

The tables in section 3.x use the following presentation:

| NE Type | Release | Family | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 | F10 |
|-----------|---|----------|----|----|----|----|----|----|----|----|----|-----|
| Table 2.8 | | | | | | | | | | | | |
| Type_name | <list-of-release> exemple: 3.0, 4.1 | 2 | | x | | x | | | x | | | 4 |

In these tables:

1. The number(s) in 'Family' column refers to network families described in **Table 2.8** below. For example : 2 stands for IMS network Family
2. Columns F1 to F6 refer to corresponding feature in **Table 2.9** below. In example above, F2 (NE Data and System Backup) and F4 (Software Inventory) are supported.
3. Release **any** means that XMC support the NE whatever the release is, Release **X** is reserved to NEs managed by other XMC and thus release is unknown from XMC.
4. Text in blue and bold font means new NE and or new feature supported in this XMC release.

Table 2.8 Network families supported by the XMC

| Network family | Description |
|----------------|--------------------------------|
| 1 | NGN : New Generation Network |
| 2 | IMS : IP Multimedia Subsystem |
| 3 | UMA : Unlicensed Mobile Access |
| 4 | PS : Packet Switching |
| 5 | CS : Circuit Switching |
| 6 | GEN : Generic |

Table 2.9 Features supported by the XMC

| Features | Description |
|----------|---|
| F1 | SSO : Single Sign On step1 |
| F2 | NE Data and System Backup |
| F3 | Software Version Change |
| F4 | Software Inventory |
| F5 | Multi-NE Scripting |
| F6 | Centralized Log management |
| F7 | Fault Management |
| F8 | UMA subscriber tracing |
| F9 | NETRA/RNC |
| F10 | Performance Collection Management, using referenced profile in Table 2.10 |

Table 2.10 Default performance collection profiles Features supported by the XMC

| Profile nb | NE family | Perf Type | GP (mn) | RP (mn) | Format |
|------------|-----------|-----------|---------|---------|---------|
| 1 | Tomix | counters | - | 60 | xml/csv |
| 2 | Tomix | counters | - | 60*24 | csv |
| 3 | Atrium | counters | - | 60 | xml |
| 4 | Atrium | lcs | - | 60*24 | xml/csv |
| 5 | SNMP | counters | 15 | 60 | xml |
| 6 | iGGSN | counters | 15 | 60 | xml |
| 7 | Legacy | counters | - | 60 | xml |
| 8 | Other CSV | counters | - | 60 | csv |
| 9 | Other XML | counters | - | 60 | xml |
| 10 | E10 | counters | - | 60 | xml/bdh |

Note:

- XML format retrieved from NE using profile 9 may differ from XMC 3GPP XML format and are NE dependant.
- CSV format retrieved from NE using profile 8 are NE dependant.

Release R6.2.0.3

| NE Type | Releases | Family | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 | F10 |
|--------------------------------|---|------------|----|----|----|----|----|----|----|----|----|------------|
| | Table 2.8 | | | | | | | | | | | |
| 5020 AGCF | 5.0, 5.1 | 2 | | | | | | | x | | | |
| 5020 CSC | 4.1, 4.2 | 2 | | | | | | | x | | | |
| 5020 MGC | 2.1.3 | 2 | | | | | | | x | | | |
| MGC-10 (virtual NE) | none | | | | | | | | | | | |
| 5020 MGC-10 Application | R28.1 | 1,2 | | x | | | | | x | | | 10 |
| 5020 MGC-10 Platform | R28.1 | 1,2 | x | x | x | x | x | x | x | | | 1,2 |
| 5020 S-UNC | 1.0 | 3 | x | x | | x | x | x | x | x | | 3 |
| 5020 WCS (4)(5) | 3.0, 3.1, 3.2, 3.3, 3.40, 3.41, 4.0, 4.11, 4.20, 4.21, 4.31 | 1, 2, 3 | x | x | | x | x | x | x | x | | 3 |
| MGC-30 (virtual NE) | none | | | | | | | | | | | |
| 5060 MGC-10 Application | R1.0 | 1,2 | | x | | | | | x | | | 10 |
| 5060 MGC-10 Platform | R1.0 | 1,2 | x | x | x | x | x | x | x | | | 1,2 |
| 5350 IAS (8) | 3.3 SP9, 3.3 SP10 | 2 | | | | | | | x | | | 5 |
| 5350 VCC (2) | 3.1 | 2 | | | | | | | x | | | |
| 5430 SRB | 3.0, 3.1 | 2 | | | | | | | x | | | 5 |
| 5750 SSC | 1.0, 2.0, 3.0, 3.1 | 2 | | | | | | | x | | | 5 |
| 5900 SRP | 6.0 | 5 | | | | | | | x | | | |
| 7510 MGW | 2.5, 3.0 | 2 | | | | | | | x | | | 5 |
| 7515 MGW | 2.4 | 1,2 | | | | | | | x | | | 5 |
| 7540 WMG (4)(5) | 3.0, 3.1, 3.2, 3.3, 3.40, 3.41, 4.0, 4.11, 4.20, 4.21, 4.31 | 1, 2, 3 | | | | | x | x | x | | | |
| 7570 MG (6) | 2.0, 2.1, 3.0, 3.1 | 1, 2, 3 | x | x | x | x | x | x | x | | | 1/2 |
| 7720 ABC (1) | 3.3 | 2 | | | | | | | x | x | | 5 |
| 7720 ABG (1) | any | 2 | | | | | | | x | x | | 5 |
| 8610 ICC (12) | 4.5.2 | 2 | | | | | | | x | | | |

| NE Type | Releases | Family | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 | F10 |
|------------------------------|---|----------|----------|----------|----------|----------|----------|----------|----------|----|----|-------------|
| Table 2.8 | | | | | | | | | | | | |
| 8610 PPS | 4.4.1 | 2 | | | | | | | x | | | |
| 8626 MMPR | 1.1.2 | 2 | | | | | | | x | | | |
| 8628 MMIC | 4.0, 4.1 | 2 | | | | | | | x | | | |
| 8640 CMM | 4.2.1, 5.0 | 2 | | | | | | | x | | | |
| 8650 SDM (virtual NE) | none | | | | | | | | | | | |
| 8650 SDM BE | 1.0 | 6 | x | x | x | x | x | x | x | | | 1, 2 |
| 8650 SDM FE | 1.0 | 6 | x | x | x | x | x | x | x | | | 1, 2 |
| 8670 GUP | 5.0.1 | 2 | | | | | | | x | | | |
| 8688 MRF | 4.1, 6.1, 6.2 | 1,2,4 | | | | | | | x | | | 8 |
| 8693 PRBT-SCP | 2.1 | 2 | | | | | | | x | | | |
| 8693 PRBT-SMS | 2.1 | 2 | | | | | | | x | | | |
| 8965 C3S | 2.2, 2.4 | 2 | | | | | | | x | | | |
| Access Stack | any | 2 | | x | | | | | x | | | 5 |
| Acme | 4.0, 5.0 | 2 | | | | | | | x | | | 5 |
| ASB CG | 4.50C | 4 | | | | | | | x | | | |
| Atrium DMSC (4)(5) | 3.0, 3.1, 3.2, 3.3, 3.40, 3.41, 4.0, 4.11, 4.20, 4.21, 4.31 | 1, 2, 3 | x | x | | x | x | x | x | x | x | 3 |
| CMC | 2.1.2 | 2 | | | | | | | x | | | |
| Charging Gateway | 4.2 | 4 | | | | | | | x | | | 5 |
| Cisco Catalyst 3750 | any | 4 | | x | | | | | x | | | 5 |
| Cisco GGSN | 3.0, 4.0 | 4 | | | | | | | x | | | 5 |
| Cisco 76xx (10) | none (container) | | | | | | | | | | | |
| Cisco GGSN-MWAM/SAMI | any | 4 | | | | | | | x | | | 5 |
| Cisco GGSN-SUP | any | 4 | | | | | | | x | | | 5 |
| Cisco Router | 2621, 2811, 2821 | 6 | | x | | | | | x | | | 5 |
| DNS | any | 4 | | x | | | | | x | | x | 5 |
| Distribution Stack | any | 4 | | x | | | | | x | | | 5 |
| F5 load balancer | any | 1 | | | | | | | x | | | 5 |
| IM-HSS | 3.0, 3.1, 4.1 | 2 | x | x | x | x | x | x | x | | | 1, 2 |
| IP device | any | 6 | | | | | | | x | | | 5 |

| NE Type | Releases | Family | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 | F10 |
|--------------------------------|---|----------|----|----|----|----|----|----|----------|----|----|----------|
| Table 2.8 | | | | | | | | | | | | |
| ISMC | 3.2 | 5 | | | | | | | x | | | |
| S12 | X | 5 | | | | | | | x | | | |
| HLR | X | 5 | | | | | | | x | | | |
| Iu Front End | any | 4 | | | | | | | x | | | 5 |
| LCP subnetwork | R14/R15 | 2 | | | | | | | x | | | 9 |
| FS5K | any | 2 | | | | | | | x | | | |
| LSM | any | 2 | | | | | | | x | | | |
| MAS (7) | R26, R27 | 2 | | | | | | | x | | | |
| MC (9) | any | | | | | | | | x | | | |
| Netscreen Firewall (9) | any | 4 | | | | | | | x | | | |
| OMC CS | 2.3, 3.2, 3.3, 3.4 | 5 | | | | | | | | | | |
| HLR | X | 5 | | | | | | | x | | | |
| OCB | X | 5 | | | | | | | x | | | |
| Others | X | 5 | | | | | | | x | | | |
| OMC-P | 11.0, 11.1, 12.0 | 2 | | | | | | | | | | 9 |
| LGP | X | 2 | | | | | | | x | | | |
| LCP | X | 2 | | | | | | | x | | | |
| BTS | X | 2 | | | | | | | x | | | |
| OMC PS | 4.1 | 4 | | | | | | | | | | |
| SGSN R2.3 | X | 4 | | | | | | | x | | | |
| DNS | X | 4 | | | | | | | x | | | |
| GGSN Cisco | X | 4 | | | | | | | x | | | |
| A8965 CDR-C | X | 4 | | | | | | | x | | | |
| OS6850 | any | 6 | | | | | | | x | | | |
| JoSAC | 1.1, 2.0, 2.1, 2.2 | 6 | | | | | | | x | | | |
| Radware LB AppDir (11) | AS2/AS2 AS4/AS4 WSD/AS2 | 3 | | | | | | | x | | | 5 |
| Radware LB AppXcel (11) | AppX/AppX | 3 | | | | | | | x | | | 5 |
| SGSN | U3.1, U3.1.1, U3.1.2, U3.1.3, U3.2, U3.3 | 4 | x | x | | x | x | x | x | | x | 1, 2 |
| SGSN router | any | 4 | | x | | | | | x | | | 5 |
| UMG (9) | any | | | | | | | | x | | | |
| UNC CS-MGW (4) | 3.0, 3.1, 3.2, | 3 | x | x | | x | x | x | x | x | | 3 |

| NE Type | Releases | Family | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 | F10 |
|-------------------------|--|--------|----|----|----|----|----|----|----|----|----|---------|
| | 3.3, 3.40, 3.41, 4.0, 4.11, 4.20, 4.21, 4.31 | | | | | | | | | | | |
| UNC GGW | 2.1, 2.2, 3.0, 4.0, 4.1 | 3 | x | x | | x | x | x | x | x | | 1, 2 |
| UNC GGW ConverT1E1 | any | 3 | | | | | | | x | | | |
| UNC GGW Router | any | 3 | | x | | | | | x | | | |
| UNC SGW Netrake | R3 | 3 | | | | | | | x | | | 5 |
| UNC SGW Reef Point | R1.2 | 2, 3 | | | | | | | x | | | 5 |
| UNC sigGW (4) | 3.0, 3.1, 3.2, 3.3, 3.40, 3.41, 4.0, 4.11, 4.20, 4.21, 4.31 | 3 | x | x | | x | x | x | x | x | | 3 |
| VitalQIP (9) | any | 2 | | | | | | | x | | | |
| WAS UMA DB-AAA | 2.1, 3.0, 3.1, 3.2, 3.3 | 3 | x | x | x | x | x | x | x | | | 1, 2 |
| eSM (9) | any | 2 | | | | | | | x | | | |
| XMC | any | 6 | x | | | | | x | x | | | |
| iGGSN MDSS | 2.5, 2.6 | 4 | | | | | | | x | | | |
| iGGSN Router | any | 4 | | x | | | | | x | | | 5 |
| NgHLR (3) | R2 | 6 | x | x | x | x | x | x | x | | | 1, 2 |
| uHSS (3) | 4.2, 4.3 | 6 | x | x | x | x | x | x | x | | | 1, 2 |
| uHSS-AAA/UMA (3) | 4.2 | 6 | x | x | x | x | x | x | x | | | 1, 2 |
| uHSS-HLR (3) | 4.2, 4.31 | 6 | x | x | x | x | x | x | x | | | 1, 2 |
| uHSS-HLR DB (3) | 4.2, 4.3 | 6 | x | x | x | x | x | x | x | | | 1, 2 |
| uHSS-HLR FE (3) | 4.2, 4.3 | 6 | x | x | x | x | x | x | x | | | 1, 2 |
| uHSS-IM-HSS(3) | 4.2 | 6 | x | x | x | x | x | x | x | | | 1, 2 |
| uHSS- IM-HSS/SLF/AAA(3) | 4.2, 4.3 | 6 | x | x | x | x | x | x | x | | | 1, 2 |

Legend :

| N° | Comment |
|----|---------|
|----|---------|

| | |
|------|--|
| (1) | 7720 ABN consists of a combination of 7720 ABC and 7720 ABG |
| (2) | The NE type named 5350 VCC in XMC is also known as 5350 IMR / VCC for Intelligent Mobile Redirect / Voice Call Continuity. The former 5350 VCC name is 5350 SCR . |
| (3) | <ul style="list-style-type: none"> - ngHLR ne-type is used to declare/supervise ngHLR with release R2 only. With higher releases, ngHLR product is renamed to uHSS-HLR, with corresponding NE types depending on compact/distributed configuration: - uHSS-HLR : compact configuration including DB and FE functions. - uHSS-HLR DB: NE holding DB function in distributed configuration - uHSS-HLR FE: NE holding FE function in distributed configuration - The former uHSS-DB has been renamed uHSS-HLR DB in order to be consistent with other NE type |
| (4) | <ul style="list-style-type: none"> - Release 4.21 corresponds to releases up to R4.21 SP2 - Release 3.41 corresponds to releases up to R3.41 SP3 - Release 3.40 corresponds to releases up to R 3.40 SP4 - Release 3.2 corresponds to releases up to R3.2 SP3 |
| (5) | <p>Atrium DMSC corresponds to an aggregation of 5020 WCS + 7540MGW(s) :</p> <ul style="list-style-type: none"> - <u>integrated view</u> = global alarm status. <p>7540MGW(s) can be declared as standalone NEs and must associated with 5020 WCS=</p> <ul style="list-style-type: none"> - <u>separate view</u> = alarm status per NEs. |
| (6) | 7570MG(s) must be used in conjunction with 5020 WCS |
| (7) | This NE type supports the following applications : HCF, HDF, Surepay, leCF, ISG, SMSC |
| (8) | This NE type supports the following applications : 5410 PS, 5410 XDMS, 5430 IM, 5430 PTx . |
| (9) | Minimal snmp support. |
| (10) | <p>Cisco 76xx is a virtual NE composed of several nodes using NE Types :</p> <ul style="list-style-type: none"> - Cisco GGSN-MWAM/SAMI : support of the MWAM and MWAM/SAMI hardware cards - Cisco GGSN-SUP : support of the SUP hardware card |
| (11) | <p>The former Radware Load Balancer NE type is replaced by the :</p> <ul style="list-style-type: none"> - Radware LB AppDir NE type - Radware LB AppXcel NE type |
| (12) | Only the EWS mediation – specific to IMS network – is supported in this context |

Previous releases

Release R6.1.1.1

| NE Type | Releases | Family | | | | | | | | |
|---------------------|---|---------|----|----|----|----|----|-----|---|-----|
| | | F1 | F2 | F3 | F4 | F5 | F6 | F10 | | |
| Table 2.8 | | | | | | | | | | |
| 5020 AGCF | 5.0 | 2 | | | | | | | | |
| 5020 CSC | 4.1, 4.2 | 2 | | | | | | | | |
| 5020 MGC | 2.1.3 | 2 | | | | | | | | |
| 5020 WCS (4)(5) | 3.0, 3.1, 3.2, 3.3, 3.40, 3.41, 4.0, 4.11, 4.20, 4.21, 4.31 | 1, 2, 3 | x | x | | | x | x | x | 3 |
| 5020 S-UNC | 1.0 | 3 | x | x | | | x | x | x | 3 |
| 5350 IAS | 3.0, 3.1, 4.0 | 2 | | | | | | | | 5 |
| 5430 SRB | 3.0, 3.1 | 2 | | | | | | | | 5 |
| 5750 SSC | 1.0, 2.0, 3.0 | 2 | | | | | | | | 5 |
| 5350 VCC (2) | 3.1 | 2 | | | | | | | | |
| 7510 TGW | 2.5 | 2 | | | | | | | | 5 |
| 7540 WMG (4)(5) | 3.0, 3.1, 3.2, 3.3, 3.40, 3.41, 4.0, 4.11, 4.20, 4.21, 4.31 | 1, 2, 3 | | | | | | x | x | |
| 7570 MG (6) | 2.0, 2.1, 3.0, 3.1 | 1, 2, 3 | x | x | x | x | x | x | x | 1/2 |
| 7720 ABC (1) | 3.0, 3.1, 3.3 | 2 | | | | | | | x | 5 |
| 7720 ABG (1) | any | 2 | | | | | | | x | 5 |
| 8610 ICC | 4.5.2 | 2 | | | | | | | | |
| 8610 PPS | 4.4.1 | 2 | | | | | | | | |
| 8626 MMRP | 1.1.2 | 2 | | | | | | | | |
| 8628 MMIC | 3.1, 4.0, 4.1 | 2 | | | | | | | | |
| 8640 CMM | 4.2.1, 5.0 | 2 | | | | | | | | |
| 8688 MRF | 4.1, 6.1 | 2 | | | | | | | | 8 |
| 8693 PRBT-SCP | 2.1 | 2 | | | | | | | | |
| 8693 PRBT-SMS | 2.1 | 2 | | | | | | | | |
| 8965 C3S | 2.2, 2.4 | 2 | | | | | | | | |
| Access Stack | any | 2 | | x | | | | | | 5 |
| Acme | 4.0, 5.0 | 2 | | | | | | | | 5 |
| Atrium DMSC (4) (5) | 3.0, 3.1, 3.2, 3.3, 3.40, 3.41, 4.0, | 1, 2, 3 | x | x | | | x | x | x | 3 |

| NE Type | Releases | Family | F1 | F2 | F3 | F4 | F5 | F6 | F10 |
|---------------------|----------------------------------|----------|----|----|----|----|----|----|----------|
| | 4.11, 4.20, 4.21, 4.31 | | | | | | | | |
| CMC | 2.1.2 | 2 | | | | | | | |
| Charging Gateway | 4.2 | 4 | | | | | | | 5 |
| Cisco Router | 2621, 2811, 2821 | 6 | | x | | | | | 5 |
| Cisco Catalyst 3750 | any | 4 | | x | | | | | 5 |
| Cisco GGSN | 3.0, 4.0 | 4 | | | | | | | 5 |
| Cisco 76xx | none (container) | | | | | | | | |
| Cisco GGSN-MWAM | any | 4 | | | | | | | 5 |
| Cisco GGSN-SUP | any | 4 | | | | | | | 5 |
| DNS | any | 4 | | x | | | | | 5 |
| Distribution Stack | any | 4 | | x | | | | | 5 |
| F5 load balancer | any | 1 | | | | | | | 5 |
| USDS | none (container) | | | | | | | | 9 |
| Combo CF/DF | any | 2 | | | | | | | |
| HCF | any | 2 | | | | | | | |
| HDF | any | 2 | | | | | | | |
| IM-HSS | 3.0, 3.1, 4.1 | 2 | x | x | x | x | x | x | 1, 2 |
| IP device | any | 6 | | | | | | | 5 |
| ISMC | 3.2 | 5 | | | | | | | |
| S12 | X | 5 | | | | | | | |
| HLR | X | 5 | | | | | | | |
| Iu Front End | any | 4 | | | | | | | 5 |
| LCP subnetwork | R14/R15 | 2 | | | | | | | 9 |
| FS5K | any | 2 | | | | | | | |
| LSM | any | 2 | | | | | | | |
| OMC CS | 2.3, 3.2, 3.3, 3.4 | 5 | | | | | | | |
| HLR | X | 5 | | | | | | | |
| OCB | X | 5 | | | | | | | |
| Others | X | 5 | | | | | | | |
| OMC-P | any | 2 | | | | | | | 9 |
| LGP | X | 2 | | | | | | | |
| LCP | X | 2 | | | | | | | |
| OMC PS | 4.1 | 4 | | | | | | | |

| NE Type | Releases | Family | | | | | | | |
|------------------------|--|--------|----|----|----|----|----|-----|------|
| | | F1 | F2 | F3 | F4 | F5 | F6 | F10 | |
| Table 2.8 | | | | | | | | | |
| SGSN R2.3 | X | 4 | | | | | | | |
| DNS | X | 4 | | | | | | | |
| GGSN Cisco | X | 4 | | | | | | | |
| A8965 CDR-C | X | 4 | | | | | | | |
| OS6850 | any | 6 | | | | | | | |
| QoSAC | 1.1, 2.0, 2.1, 2.2 | 6 | | | | | | | |
| Radware Load Balancer | any | 3 | | | | | | | 5 |
| SGSN | U3.1, U3.1.1, U3.1.2, U3.1.3, U3.2 | 4 | x | x | | x | x | x | 1, 2 |
| SGSN router | any | 4 | | x | | | | | 5 |
| UNC CS-MGW (4) | 3.0, 3.1, 3.2, 3.3, 3.40, 3.41, 4.0, 4.11, 4.20, 4.21, 4.31 | 3 | x | x | | x | x | x | 3 |
| UNC GGW | 2.1, 2.2, 3.0, 4.0, 4.1 | 3 | x | x | | x | x | x | 1, 2 |
| UNC GGW ConvertTIE1 | any | 3 | | | | | | | |
| UNC GGW Router | any | 3 | | x | | | | | |
| UNC SGW Netrake | R3 | 3 | | | | | | | 5 |
| UNC SGW Reef Point | R1.2 | 2, 3 | | | | | | | 5 |
| UNC sigGW (4) | 3.0, 3.1, 3.2, 3.3, 3.40, 3.41, 4.0, 4.11, 4.20, 4.21, 4.31 | 3 | x | x | | x | x | x | 3 |
| WAS UMA DB-AAA | 2.1, 3.0, 3.1, 3.2, 3.3 | 3 | x | x | x | x | x | x | 1, 2 |
| XMC | any | 6 | x | | | | | x | |
| iGGSN MDSS | 2.5, 2.6 | 4 | | | | | | | |
| iGGSN Router | any | 4 | | x | | | | | 5 |
| ngHLR | R2 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS (3) | 4.2, 4.3 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS-AAA/UMA | 4.2 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS-DB | 4.2, 4.3 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS-HLR | 4.2, 4.31 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS-HLR FE | 4.2, 4.3 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS-IM-HSS | 4.2 | 6 | x | x | x | x | x | x | 1, 2 |

Release R6.1.0.6

| NE Type | Releases | Family Table 2.8 | F1 | F2 | F3 | F4 | F5 | F6 | F10 |
|---------------------|---|------------------------|----|----|----|----|----|----|----------|
| 5020 AGCF | 5.0 | 2 | | | | | | | |
| 5020 CSC | 4.1, 4.2 | 2 | | | | | | | |
| 5020 MGC | 2.1.3 | 2 | | | | | | | |
| 5020 WCS (5) | 3.0, 3.1, 3.2, 3.3, 3.40, 3.41, 4.0, 4.11, 4.20, 4.21 | 1, 2, 3 | x | x | | x | x | x | 3 |
| 5020 S-UNC | 1.0 | 3 | x | x | | x | x | x | 3 |
| 5350 IAS | 3.0, 3.1, 4.0 | 2 | | | | | | | 5 |
| 5430 SRB | 3.0, 3.1 | 2 | | | | | | | 5 |
| 5750 SSC | 1.0, 2.0, 3.0 | 2 | | | | | | | 5 |
| 5350 VCC (3) | 3.1 | 2 | | | | | | | |
| 7510 TGW | 2.5 | 2 | | | | | | | 5 |
| 7540 WMG (5) | 3.0, 3.1, 3.2, 3.3, 3.40, 3.41, 4.0, 4.11, 4.20, 4.21 | 1, 2, 3 | | | | | x | x | |
| 7570 MG | 2.0, 2.1, 3.0, 3.1 | 1, 2, 3 | x | x | x | x | x | x | 1/2 |
| 7720 ABC (2) | 3.0, 3.1, 3.3 | 2 | | | | | | x | 5 |
| 7720 ABG (2) | any | 2 | | | | | | x | 5 |
| 8610 ICC | 4.5.2 | 2 | | | | | | | |
| 8610 PPS | 4.4.1 | 2 | | | | | | | |
| 8626 MMRP | 1.1.2 | 2 | | | | | | | |
| 8628 MMIC | 3.1, 4.0, 4.1 | 2 | | | | | | | |
| 8640 CMM | 4.2.1, 5.0 | 2 | | | | | | | |
| 8688 MRF | 4.1, 6.1 | 2 | | | | | | | 8 |
| 8693 PRBT-SCP | 2.1 | 2 | | | | | | | |
| 8693 PRBT-SMS | 2.1 | 2 | | | | | | | |
| 8965 C3S | 2.2, 2.4 | 2 | | | | | | | |
| Access Stack | any | 2 | | x | | | | | 5 |
| Acme | 4.0, 5.0 | 2 | | | | | | | 5 |
| Atrium DMSC (5) | 3.0, 3.1, 3.2, 3.3, | 1, 2, 3 | x | x | | x | x | x | 3 |

| NE Type | Releases | Family Table 2.8 | F1 | F2 | F3 | F4 | F5 | F6 | F10 |
|----------------------------|--------------------------------------|------------------------|----|----|----|----|----|----|----------|
| | 3.40, 3.41, 4.0, 4.11, 4.20, 4.21 | | | | | | | | |
| CMC | 2.1.2 | 2 | | | | | | | |
| Charging Gateway | 4.2 | 4 | | | | | | | 5 |
| Cisco Router | 2621, 2811, 2821 | 6 | | x | | | | | 5 |
| Cisco Catalyst 3750 | any | 4 | | x | | | | | 5 |
| Cisco GGSN | 3.0, 4.0 | 4 | | | | | | | 5 |
| Cisco GGSN-MWAM (1) | any | 4 | | | | | | | |
| Cisco GGSN-SUP (1) | any | 4 | | | | | | | |
| DNS | any | 4 | | x | | | | | 5 |
| Distribution Stack | any | 4 | | x | | | | | 5 |
| F5 load balancer | any | 1 | | | | | | | 5 |
| USDS | none (container) | | | | | | | | 9 |
| Combo CF/DF | any | 2 | | | | | | | |
| HCF | any | 2 | | | | | | | |
| HDF | any | 2 | | | | | | | |
| IM-HSS | 3.0, 3.1, 4.1 | 2 | x | x | x | x | x | x | 1, 2 |
| IP device | any | 6 | | | | | | | 5 |
| ISMC | 3.2 | 5 | | | | | | | |
| S12 | X | 5 | | | | | | | |
| HLR | X | 5 | | | | | | | |
| Iu Front End | any | 4 | | | | | | | 5 |
| LCP subnetwork | R14/R15 | 2 | | | | | | | 9 |
| FS5K | any | 2 | | | | | | | |
| LSM | any | 2 | | | | | | | |
| OMC CS | 2.3, 3.2, 3.3, 3.4 | 5 | | | | | | | |
| HLR | X | 5 | | | | | | | |
| OCB | X | 5 | | | | | | | |
| Others | X | 5 | | | | | | | |
| OMC-P | any | 2 | | | | | | | 9 |
| LGP | X | 2 | | | | | | | |
| LCP | X | 2 | | | | | | | |
| OMC PS | 4.1 | 4 | | | | | | | |

| NE Type | Releases | Family Table 2.8 | F1 | F2 | F3 | F4 | F5 | F6 | F10 |
|-----------------------|---|------------------------|----|----|----|----|----|----|------|
| SGSN R2.3 | X | 4 | | | | | | | |
| DNS | X | 4 | | | | | | | |
| GGSN Cisco | X | 4 | | | | | | | |
| A8965 CDR-C | X | 4 | | | | | | | |
| OS6850 | any | 6 | | | | | | | |
| QoSAC | 1.1, 2.0, 2.1, 2.2 | 6 | | | | | | | |
| Radware Load Balancer | any | 3 | | | | | | | 5 |
| SGSN | U3.1, U3.1.1, U3.1.2, U3.1.3, U3.2 | 4 | x | x | | x | x | x | 1, 2 |
| SGSN router | any | 4 | | x | | | | | 5 |
| UNC CS-MGW (5) | 3.0, 3.1, 3.2, 3.3, 3.40, 3.41, 4.0, 4.11, 4.20, 4.21 | 3 | x | x | | x | x | x | 3 |
| UNC GGW | 2.1, 2.2, 3.0, 4.0 | 3 | x | x | | x | x | x | 1, 2 |
| UNC GGW ConvertIE1 | any | 3 | | | | | | | |
| UNC GGW Router | any | 3 | | x | | | | | |
| UNC SGW Netrake | R3 | 3 | | | | | | | 5 |
| UNC SGW Reef Point | R1.2 | 2, 3 | | | | | | | 5 |
| UNC sigGW (5) | 3.0, 3.1, 3.2, 3.3, 3.40, 3.41, 4.0, 4.11, 4.20, 4.21 | 3 | x | x | | x | x | x | 3 |
| WAS UMA DB-AAA | 2.1, 3.0, 3.1, 3.2, 3.3 | 3 | x | x | x | x | x | x | 1, 2 |
| XMC | any | 6 | x | | | | | x | |
| iGGSN MDSS | 2.5, 2.6 | 4 | | | | | | | |
| iGGSN Router | any | 4 | | x | | | | | 5 |
| ngHLR | R2 | 6 | x | x | x | x | x | x | 1, 2 |
| UHSS (4) | 4.2, 4.3 | 6 | x | x | x | x | x | x | 1, 2 |
| UHSS-AAA/UMA | 4.2 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS-DB | 4.2, 4.3 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS-HLR | 4.2, 4.31 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS-HLR FE | 4.2, 4.3 | 6 | x | x | x | x | x | x | 1, 2 |
| UHSS-IM-HSS | 4.2 | 6 | x | x | x | x | x | x | 1, 2 |

Release R6.0.2.9

| NE Type | Releases | Family Table 2.8 | F1 | F2 | F3 | F4 | F5 | F6 | F10 |
|---------------------|--|------------------------|----------|----|----|----------|----------|----------|----------|
| 5020 CSC | 4.1, 4.2 | 2 | | | | | | | |
| 5020 MGC | 2.1.3 | 2 | | | | | | | |
| 5020 WCS | 3.0, 3.1, 3.2, 3.3, 3.40, 3.41, 4.0, 4.11, 4.20, 4.21 | 1, 2, 3 | x | | | x | x | x | 3 |
| 5020 S-UNC | 1.0 | 1, 2, 3 | x | | | x | x | x | 3 |
| 5350 IAS | 3.0, 3.1 | 2 | | | | | | | 5 |
| 5430 SRB | 3.0 | 2 | | | | | | | 5 |
| 5750 SSC | 1.0, 2.0 | 2 | | | | | | | 5 |
| 7510 TGW | 2.5 | 2 | | | | | | | 5 |
| 7540 WMG | 3.0, 3.1, 3.2, 3.3, 3.40, 3.41, 4.0, 4.11, 4.20, 4.21 | 1, 2, 3 | | | | | x | x | |
| 7570 MG | 2.0, 2.1, 3.0, 3.1 | 1, 2, 3 | x | x | x | x | x | x | 1, 2 |
| 7720 ABC | 3.0, 3.1, 3.2 | 2 | | | | | | | 5 |
| 7720 ABG | any | 2 | | | | | | | 5 |
| 8610 PPS | 4.4.1 | 2 | | | | | | | |
| 8626 MMRP | 1.1.2 | 2 | | | | | | | |
| 8628 MMIC | 3.1, 4.0 | 2 | | | | | | | |
| 8640 CMM | 4.2.1.1 | 2 | | | | | | | |
| 8688 MRF | 4.1 | 2 | | | | | | | |
| 8693 PRBT-SCP | 2.1 | 2 | | | | | | | |
| 8693 PRBT-SMS | 2.1 | 2 | | | | | | | |
| 8965 C3S | 2.2 | 2 | | | | | | | |
| Access Stack | U3.1 | | | x | | | | | 5 |
| Acme | 4.0 | 2 | | | | | | | 5 |
| Atrium DMSC | 3.0, 3.1, 3.2, 3.3, 3.40, 3.41, 4.0, 4.11, 4.20, 4.21 | 1, 2, 3 | x | | | x | x | x | 3 |
| CMC | 2.1.2 | 2 | | | | | | | |
| Charging Gateway | 4.2 | 4 | | | | | | | 5 |
| Cisco Router | 2621, 2811, 2821 | 4 | | x | | | | | 5 |
| Cisco Catalyst 3750 | any | 4 | | x | | | | | 5 |
| Cisco GGSN | 3.0, 4.0 | 4 | | | | | | | 5 |
| DNS | any | 4 | | x | | | | | 5 |

| NE Type | Releases | Family Table 2.8 | F1 | F2 | F3 | F4 | F5 | F6 | F10 |
|----------------------|--|------------------------|----|----|----|----|----|----|------|
| Distribution Stack | U3.1 | 4 | | x | | | | | 5 |
| F5 load balancer | any | 1 | | | | | | | 5 |
| FS5000 | any | | | | | | | | |
| HC4 E10 CS | 28.1 | | | | | | | | |
| HC4 User Plan | 3.0, 3.1 | | | | | | | | |
| IM-HSS | 3.0, 3.1, 4.1 | 2 | x | x | x | x | x | x | 1, 2 |
| IP device | any | 6 | | | | | | | 5 |
| ISMC | 3.2 | 5 | | | | | | | |
| S12 | X | 5 | | | | | | | |
| HLR | X | 5 | | | | | | | |
| Iu Front End | any | 4 | | | | | | | 5 |
| LSM | any | | | | | | | | |
| OMC CS | 2.3, 3.2, 3.3, 3.4 | 5 | | | | | | | |
| HLR | X | 5 | | | | | | | |
| OCB | X | 5 | | | | | | | |
| RCP | X | 5 | | | | | | | |
| Others | X | 5 | | | | | | | |
| OMC PS | 4.1 | 4 | | | | | | | |
| SGSN R2.3 | X | 4 | | | | | | | |
| DNS | X | 4 | | | | | | | |
| GGSN Cisco | X | 4 | | | | | | | |
| A8965 CDR-C | X | 4 | | | | | | | |
| MoSAC | 1.1, 2.0, 2.1, 2.2 | 6 | | | | | | | |
| adware Load Balancer | any | 3 | | | | | | | 5 |
| SGSN | U3.1, U3.1.1, U3.1.2, U3.1.3, U3.2 | 4 | x | x | | x | x | x | 1, 2 |
| SGSN router | U3.1 | 4 | | x | | | | | 5 |
| UNC CS-MGW | 3.0, 3.1, 3.2, 3.3, 3.40, 3.41, 4.0, 4.11, 4.20, 4.21 | 3 | x | | | x | x | x | 3 |
| UNC GW | 2.1, 2.2, 3.0, 4.0 | 3 | x | x | | x | x | x | 1, 2 |
| UNC GW ConverT1E1 | any | 3 | | | | | | | |
| UNC GW Router | any | 3 | | x | | | | | |
| UNC SGW Netrake | R3 | 3 | | | | | | | 5 |

| NE Type | Releases | Family Table 2.8 | F1 | F2 | F3 | F4 | F5 | F6 | F10 |
|--------------------|--|------------------------|----|----|----|----|----|----|------|
| UMA SGW Reef Point | R1.2 | 1, 2, 3 | | | | | | | 5 |
| UNC sigGW | 3.0, 3.1, 3.2, 3.3, 3.40, 3.41, 4.0, 4.11, 4.20, 4.21 | 3 | x | | | x | x | x | 3 |
| WAS UMA DB-AAA | 2.1, 3.0, 3.1, 3.2, 3.3 | 3 | x | x | x | x | x | x | 1, 2 |
| XMC | any | 6 | x | | | | | x | |
| iGGSN MDSS | 2.5, 2.6 | 4 | | | | | | | |
| iGGSN Router | U3.1 | 4 | | x | | | | | 5 |
| ngHLR | R2 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS | 4.2, 4.3 | 6 | x | x | x | x | x | x | 1, 2 |
| UHSS-AAA/UMA | 4.2 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS-DB | 4.2, 4.3 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS-HLR | 4.2 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS-HLR FE | 4.2, 4.3 | 6 | x | x | x | x | x | x | 1, 2 |
| UHSS-IM-HSS | 4.2 | 6 | x | x | x | x | x | x | 1, 2 |

Release R6.0.1.5

| NE Type | Release | Family Table 2.8 | F1 | F2 | F3 | F4 | F5 | F6 | F10 |
|-----------------|---------------------------------|------------------------|----|----|----|----|----|----|----------|
| 5020 CSC | 4.1/4.2 | 2 | | | | | | | |
| 5020 MGC | 2.1.3 | 2 | | | | | | | |
| 5020 WCS | 3.0/3.1/3.2/3.3/3.4/4 .0/4.1 | 1, 2, 3 | x | | | x | x | x | 3 |
| 5350 IAS | 3.0/3.1 | 2 | | | | | | | 5 |
| 5430 SRB | 3.0 | 2 | | | | | | | 5 |
| 5750 SSC | 1.0 | 2 | | | | | | | 5 |
| 7510 TGW | 2.5 | 2 | | | | | | | 5 |
| 7540 WMG | any | 1, 2, 3 | | | | | x | x | |
| 7570 MG | 2.0/ 2.1 | 1, 2, 3 | x | x | x | x | x | x | 1, 2 |
| 7720 ABC | 3.0/3.1 | 2 | | | | | | | 5 |
| 7720 ABG | any | 2 | | | | | | | 5 |

| NE Type | Release | Family Table 2.8 | F1 | F2 | F3 | F4 | F5 | F6 | F10 |
|---------------------|---------------------------------|------------------------|----|----|----|----|----|----|------|
| 8610 PPS | 4.4.1 | 2 | | | | | | | |
| 8626 MMRP | 1.1.2 | 2 | | | | | | | |
| 8628 MMIC | 3.1/4.0 | 2 | | | | | | | |
| 8640 CMM | 4.2.1.1 | 2 | | | | | | | |
| 8688 MRF | 4.1 | 2 | | | | | | | |
| 8693 PRBT-SCP | 2.1 | 2 | | | | | | | |
| 8693 PRBT-SMS | 2.1 | 2 | | | | | | | |
| 8965 C3S | 2.2 | 2 | | | | | | | |
| Acme | 4.0 | 2 | | | | | | | 5 |
| Access Stack | 3.1 | | | x | | | | | 5 |
| Atrium DMSC | 3.0/3.1/3.2/3.3/3.4/4 .0/4.1 | 1, 2, 3 | x | | | x | x | x | 3 |
| Charging Gateway | 4.2 | 4 | | | | | | | 5 |
| Cisco 2621 | any | 4 | | x | | | | | 5 |
| Cisco Catalyst 3750 | any | 4 | | x | | | | | 5 |
| Cisco GGSN | 3.0/4.0 | 4 | | | | | | | 5 |
| CMC | 2.1.2 | 2 | | | | | | | |
| DNS | any | 4 | | x | | | | | 5 |
| Distribution Stack | U3.1 | 4 | | x | | | | | 5 |
| F5 load balancer | any | 1 | | | | | | | 5 |
| IM-HSS | 3.0/3.1/4.1 | 2 | x | x | x | x | x | x | 1, 2 |
| IP device | any | 6 | | | | | | | 5 |
| ISMC | 3.2 | 5 | | | | | | | |
| S12 | X | 5 | | | | | | | |
| HLR | X | 5 | | | | | | | |
| Iu Front End | any | 4 | | | | | | | 5 |
| OMC CS | 2.3/3.2/3.3/3.4 | 5 | | | | | | | 7 |
| HLR | X | 5 | | | | | | | |
| OCB | X | 5 | | | | | | | |
| RCP | X | 5 | | | | | | | |
| Others | X | 5 | | | | | | | |
| OMC PS | 4.1 | 4 | | | | | | | |
| SGSN R2.3 | X | 4 | | | | | | | |
| DNS | X | 4 | | | | | | | |

| NE Type | Release | Family Table 2.8 | F1 | F2 | F3 | F4 | F5 | F6 | F10 |
|----------------------|-----------------------------|------------------------|----|----|----|----|----|----|------|
| GGSN Cisco | X | 4 | | | | | | | |
| A8965 CDR-C | X | 4 | | | | | | | |
| oSAC | 1.1/2.0/2.1 | 6 | | | | | | | |
| adware Load Balancer | any | 3 | | | | | | | 5 |
| SGSN | U3.1/U3.1.1 | 4 | x | x | | x | x | x | 1, 2 |
| SGSN router | U3.1 | 4 | | x | | | | | 5 |
| UNC CS-MGW | 3.0/3.1/3.2/3.3/3.4/4.0/4.1 | 3 | x | | | x | x | x | 3 |
| UNC GW | 2.1/2.2/3.0/4.0 | 3 | x | x | | x | x | x | 1, 2 |
| UNC GW Converter | any | 3 | | | | | | | |
| UNC GW Router | any | 3 | | x | | | | | |
| UNC SGW Netrake | R3 | 3 | | | | | | | 5 |
| UMA SGW Reef Point | R1.2 | 2, 3 | | | | | | | 5 |
| UNC sigGW | 3.0/3.1/3.2/3.3/3.4/4.0/4.1 | 3 | x | | | x | x | x | 3 |
| WAS UMA DB-AAA | 2.1/3.0/3.1/3.2/3.3 | 3 | x | x | x | x | x | x | 1, 2 |
| XMC | any | 6 | x | | | | | x | |
| iGGSN MDSS | 2.5/2.6 | 4 | | | | | | | |
| iGGSN Router | U3.1 | 4 | | x | | | | | 5 |
| ngHLR | R2 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS | R4.2 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS-AAA/UMA | R4.2 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS-HLR | R4.2 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS-DB | R4.2 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS-HLR FE | R4.2 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS-IM-HSS | R4.2 | 6 | x | x | x | x | x | x | 1, 2 |

Release R6.0.0.9

| NE Type | Release | Family Table 2.8 | F1 | F2 | F3 | F4 | F5 | F6 | F10 |
|----------|---------|------------------------|----|----|----|----|----|----|-----|
| 5020 CSC | 4.1/4.2 | 2 | | | | | | | |
| 5020 MGC | 2.1.3 | 2 | | | | | | | |

| NE Type | Release | Family Table 2.8 | F1 | F2 | F3 | F4 | F5 | F6 | F10 |
|----------------------|---------------------------------|------------------------|----|----|----|----|----|----|----------|
| 5020 WCS | 3.0/3.1/3.2/3.3/3.4/4.0 /4.1 | 1, 2, 3 | x | | | x | x | x | 3 |
| 5350 IAS | 3.0/3.1 | 2 | | | | | | | 5 |
| 5430 SRB | 3.0 | 2 | | | | | | | 5 |
| 5750 SSC | 1.0 | 2 | | | | | | | 5 |
| 7510 TGW | 2.5 | 2 | | | | | | | 5 |
| 7540 MGW | any | 1, 2, 3 | | | | | x | x | |
| 7570 MG | 2.0 | 1, 2, 3 | x | x | x | x | x | x | 1, 2 |
| 7720 ABC | 3.0/3.1 | 2 | | | | | | | 5 |
| 8610 PPS | 4.4.1 | 2 | | | | | | | |
| 8626 MMRP | 1.1.2 | 2 | | | | | | | |
| 8628 MMIC | 3.1/4.0 | 2 | | | | | | | |
| 8640 CMM | 4.2.1.1 | 2 | | | | | | | |
| 8688 MRF | 4.1 | 2 | | | | | | | |
| 8693 PRBT-SCP | 2.1 | 2 | | | | | | | |
| 8693 PRBT-SMS | 2.1 | 2 | | | | | | | |
| Acme | 4.0 | 2 | | | | | | | 5 |
| Access Stack | 3.1 | | | x | | | | | 5 |
| Atrium DMSC | 3.0/3.1/3.2/3.3/3.4/4.0 /4.1 | 1, 2, 3 | x | | | x | x | x | 3 |
| Charging Gateway | 4.2 | 4 | | | | | | | 5 |
| Cisco 2621 | any | 4 | | x | | | | | 5 |
| Cisco Catalyst 3750 | any | 4 | | x | | | | | 5 |
| Cisco GGSN | 3.0/4.0 | 4 | | | | | | | 5 |
| CMC | 2.1.2 | 2 | | | | | | | |
| DNS | any | 4 | | x | | | | | 5 |
| Distribution Stack | U3.1 | 4 | | x | | | | | 5 |
| F5 load balancer | any | 1 | | | | | | | 5 |
| IM-HSS | 3.0/3.1/4.1 | 2 | x | x | x | x | x | x | 1, 2 |
| IP device | any | 6 | | | | | | | 5 |
| ISMC | 3.2 | 5 | | | | | | | |
| S12 | X | 5 | | | | | | | |
| HLR | X | 5 | | | | | | | |
| Iu Front End | any | 4 | | | | | | | 5 |
| OMC CS | 2.3/3.2/3.3/3.4 | 5 | | | | | | | 7 |

| NE Type | Release | Family Table 2.8 | F1 | F2 | F3 | F4 | F5 | F6 | F10 |
|----------------------|---|------------------------|----------|----------|----------|----------|----------|----------|----------|
| HLR | X | 5 | | | | | | | |
| OCB | X | 5 | | | | | | | |
| RCP | X | 5 | | | | | | | |
| Others | X | 5 | | | | | | | |
| OMC PS | 4.1 | 4 | | | | | | | |
| SGSN R2.3 | X | 4 | | | | | | | |
| DNS | X | 4 | | | | | | | |
| GGSN Cisco | X | 4 | | | | | | | |
| A8965 CDR-C | X | 4 | | | | | | | |
| oSAC | 1.1/ 2.0/2.1 | 6 | | | | | | | |
| adware Load Balancer | any | 3 | | | | | | | 5 |
| SGSN | U3.1/U3.1.1 | 4 | x | x | | x | x | x | 1, 2 |
| SGSN router | U3.1 | 4 | | x | | | | | 5 |
| UNC CS-MGW | 3.0/3.1/3.2/3.3/3.4/4.0 / 4.1 | 3 | x | | | x | x | x | 3 |
| UNC GGW | 2.1/2.2/3.0 | 3 | x | x | | x | x | x | 1, 2 |
| UNC GGW ConverTIE1 | any | 3 | | | | | | | |
| UNC GGW Router | any | 3 | | x | | | | | |
| UNC SGW Netrake | R3 | 3 | | | | | | | 5 |
| UMA SGW Reef Point | R1.2 | 2, 3 | | | | | | | 5 |
| UNC sigGW | 3.0/3.1/3.2/3.3/3.4/4.0 / 4.1 | 3 | x | | | x | x | x | 3 |
| WAS UMA DB-AAA | 2.1/3.0/3.1/3.2/3.3 | 3 | x | x | x | x | x | x | 1, 2 |
| XMC | any | 6 | x | | | | | x | |
| iGGSN MDSS | 2.5/2.6 | 4 | | | | | | | |
| iGGSN Router | U3.1 | 4 | | x | | | | | 5 |
| ngHLR | R2 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS-HLR | R4.2 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS-DB | R4.2 | 6 | x | x | x | x | x | x | 1, 2 |
| uHSS-HLR FE | R4.2 | 6 | x | x | x | x | x | x | 1, 2 |



3 Test results

Overview

Purpose

This chapter provides information on test results.

Contents

This chapter covers this topic.

| | |
|-------------------------|-----|
| System test results | 3-2 |
| Functional test results | 3-3 |

System test results

XMC System Tests 6.2.0

w16

Release 6.2.0

| XMC System Tests 6.2.0 Detailed Status | Problem Reports | | | | | % Completion | Quality | | Total Tests # | | Total number of tests | | | | |
|---|-----------------|----|----|------|-----------|--------------|---------|----------|---------------|---------|-----------------------|-----|----|----|-----|
| | G0 | G1 | G2 | G3/4 | Close-Val | Cvrg | Current | 1st pass | initial | current | blk | run | ok | ns | nok |
| Global VNR (Linux) | 0 | 2 | 3 | 10 | 0 | 100% | 98% | 98% | 49 | 80 | 0 | 80 | 77 | 3 | 0 |
| Global STABILITY | 0 | 0 | 0 | 0 | 0 | na | na | na | na | na | na | na | na | na | na |
| Total | 0 | 2 | 3 | 10 | 0 | 100.0% | 98.1% | 98.1% | 49 | 80 | 0 | 80 | 77 | 3 | 0 |

Functional test results

XMC Functional Tests 6.2.0

w16

Release 6.2.0

| Functional Tests 6.2.0 Detailed Status | Problem Reports | | | | | % Completion Cvrg | Quality | | Total Tests # | | Total number of tests | | | | |
|---|-----------------|----|----|------|-----------|----------------------|---------|----------|---------------|---------|-----------------------|-----|-----|----|-----|
| | G0 | G1 | G2 | G3/4 | Close-Val | | Current | 1st pass | initial | current | blk | run | ok | ns | nok |
| New Release of Known Nodes | | | | | | | | | | | | | | | |
| Cisco GGSN 7609 (SAMI) | 0 | 0 | 0 | 0 | 0 | 0% | 0% | 0% | 21 | 21 | 21 | 0 | 0 | 0 | 0 |
| LSMR15 | | | | | | | | | | | | | | | |
| BTS (through OMC-P 12.0) | 0 | 1 | 3 | 9 | 0 | 100% | 75% | 75% | 17 | 17 | 1 | 16 | 12 | 0 | 4 |
| 5420 CCS R8.0 (ex 5350 VCC R3.1) | | | | | | | | | | | | | | | |
| 5420 CTS (FS5K) | | | | | | | | | | | | | | | |
| 5900 MRF 6.2 | 0 | 1 | 0 | 0 | 0 | 0% | 0% | 0% | 18 | 18 | 18 | 0 | 0 | 0 | 0 |
| 7500 ABN R3.3 | 0 | 0 | 0 | 0 | 0 | 100% | 100% | 100% | 21 | 21 | 0 | 21 | 21 | 0 | 0 |
| 8610 ICC 4.5.2_02 | 0 | 0 | 0 | 0 | 0 | 100% | 100% | 100% | 16 | 16 | 5 | 11 | 11 | 0 | 0 |
| New IMS Nodes | | | | | | | | | | | | | | | |
| MAS Generic | 0 | 0 | 1 | 1 | 0 | 94% | 100% | 100% | 35 | 34 | 1 | 31 | 31 | 0 | 0 |
| 5020 MGC-10 | 0 | 0 | 0 | 0 | 0 | 100% | 98% | 98% | 90 | 75 | 22 | 53 | 52 | 0 | 1 |
| 5350 IAS Generic | 0 | 1 | 4 | 2 | 0 | 100% | 86% | 86% | 30 | 30 | 1 | 29 | 25 | 0 | 4 |
| 7510 MGW R3.0 | 0 | 1 | 1 | 0 | 1 | 100% | 92% | 94% | 43 | 43 | 12 | 31 | 28 | 1 | 2 |
| 7515 MGW R2.4 | 0 | 1 | 0 | 0 | 0 | 100% | 97% | 97% | 39 | 39 | 7 | 32 | 31 | 0 | 1 |
| 8670 GUP | 0 | 0 | 0 | 1 | 0 | 100% | 97% | 100% | 18 | 18 | 1 | 17 | 16 | 1 | 0 |
| New non-IMS Node | | | | | | | | | | | | | | | |
| 8650 SDM | 0 | 1 | 0 | 4 | 2 | 100% | 98% | 93% | 48 | 47 | 2 | 45 | 44 | 0 | 1 |
| 5900 SRP | 0 | 0 | 2 | 0 | 0 | 100% | 96% | 96% | 29 | 27 | 4 | 23 | 21 | 2 | 0 |
| Charging Gateway 4.50C | 0 | 0 | 1 | 0 | 0 | 100% | 91% | 91% | 73 | 72 | 3 | 69 | 62 | 2 | 5 |
| Other Features | | | | | | | | | | | | | | | |
| Timezone | 0 | 0 | 0 | 0 | 1 | 38% | 100% | 100% | 21 | 21 | 0 | 8 | 8 | 0 | 0 |
| Hierarchical Topology | 0 | 0 | 2 | 3 | 0 | 100% | 94% | 89% | 13 | 13 | 4 | 9 | 8 | 1 | 0 |
| Internal Improvements | 0 | 0 | 1 | 0 | 0 | 100% | 75% | 75% | 8 | 8 | 4 | 4 | 3 | 0 | 1 |
| Global Stability | 0 | 0 | 0 | 0 | 0 | na | na | na | na | na | na | na | na | na | na |
| Total | 0 | 6 | 15 | 20 | 4 | 96.4% | 94.4% | 94.0% | 540 | 520 | 106 | 399 | 373 | 7 | 19 |



4 Changes to interfaces

Overview

Purpose

The following paragraphs list changes occurred on XMC that may have impacts on end user or some upper OS systems.

Contents

This chapter covers this topic.

| | |
|-------------------|-----|
| Interface changes | 4-2 |
|-------------------|-----|

Interface changes

Release R6.2.0.3

Previous releases

Release R6.1.1.1

A new file system /nedata/traces dedicated to UMA subscriber traces feature has been added. This FS contains the debug trace files related to some specific IMSI under /nedata/traces/UMASubscribers/<IMSI>/

Access to these files is authorized to xmcftp/sxmftp account using ftp/sftp.

Release R6.1.0.6

None.

Release R6.0.2.9

SNMP North interface

Non conformity with SNMP rfc2578 has been fixed :

- XMC sends traps with all varbinds described in ALCATEL-OMCCN-ALARMFORWARDING-MIB Notification-types Objects clauses in correct order and with no repetition.

3GPP North interface

Non conformity to 3GPP on GetAlarmList has been fixed :

- Prior 6.0.2 GetAlarmList returns the not-cleared alarms list.
- Starting 6.0.2 GetAlarmList returns the currently active alarms : not-cleared and cleared/not acknowledged alarms list.

NGN R3.2-SP3, R3.41, R4.20, R4.21 alarm and performance counters

The introduction of NGN R3.2-SP3, R3.41, R4.20, R4.21 releases (alarms, counter definitions) are supported for the following NE types:

- Atrium DMSC

- UNC CS-MGW
- UNC SigGW
- 5020 WCS
- 7540 MG

Note: as alarm mapping is performed in a release dependant way (instead of multi-release prior to R6.0.2), the 7540 MG NE in separate view must be declared consistently with father WCS.

Release R6.0.1.5

Tomix based node supervision

Starting release MD7 SP1, the backup and software release operation use sftp with public key authentication, instead of ftp with login/password authentication.

As a consequence for each of these nodes, a specific configuration consisting in installing the node public key on the backup/software server has to be done.

Platform hardening

- XMC http server runs in secured mode only : http connection must be replaced by https.
- When security is installed : telnet connection must be replaced by ssh.
- When security is installed : ftp connection must be replaced by sftp.
- When security is installed : tftp connection are disabled.

These evolutions may impact OWP and upper-OS hosts.

Note that if telnet, ftp, tftp, http are required these protocols can be enabled on-demand.

XMC-Call server communication

Starting 6.0.1 release, as a general rule, XMC communications with the NE make use of secured protocols when supported by the NE.

Performance and log files collection on Atrium NE will use sftp protocol when ssh port 22 is open on NE - instead of ftp in previous XMC releases. Default credentials configured in XMC for this communication with call server use the root account. Depending on call server release the default sshd configuration on NE may not allow connections with root account (***PermitRootLogin no***), causing collects to fail.

In order to fix this problem two solutions are possible :

1. Change the call server sshd configuration in order to allow root connections : ***PermitRootLogin yes*** and restart the sshd daemon.

2. Create a non root account on the call server that will be used for the sftp/ssh session and change credentials for call server NE on XMC.

Starting R6.0, XMC also requires a dedicated CLI account to be created on atrium NE. Default credentials are configured on XMC: login=atrium_cli, password=@Spatial1. This configuration needs to be consistently performed on NE and XMC credentials.

Release R6.0.0.9

3GPP alarm specific problems

The list of specific problems has been updated according to the introduction of new alarms.

New Files System

A new file system /nedata/log has been created in order to host the exported log files.

Password policy

Due to introduction of ageing mechanism, all passwords of XMC portal users are reset to a default value "OM_cc_n1", and users will be forced to changed this password at first connection.

7570 NE account

Password for admin_root account of 7570 NE is configured to "A7570MG" instead of empty string. In case some NE are already declared in the network, the admin_root password must be set to A7570MG on NE.

Single Sign On

The AWP/LSM libraries in charge of providing the SSO feature have been replaced by the SSO/LSM libraries. These same libraries are also included in the TOMIX NEs supporting SSO. Because a client (awp/lsm) is not compatible with a server (sso/lsm), it is mandatory to migrate all TOMIX NE to a release based on sso/lsm libraries before migrating to this XMC release. If this constraint is not enforced the SSO feature will not be available for the considered node.

XMC data backup

A new XMC data backup has been introduced, as a consequence the backup process is different, see XMC platform admin guide for detail. XMC data backup can be performed to tape and to disk (prior to this release, only backup to tape was supported).

NGN 3.4 and R4.1 alarm and performance counters

The introduction of NGN R3.4 and R4.1 release (alarms, counter definitions) are supported for the following NE types:

- Atrium DMSC
- UNC CS-MGW
- UNC SigGW
- 5020 WCS

Alarm changes

Release R6.2.0.3

none

Release R6.1.1.1

none

Release R6.1.0.6

none

Release R6.0.2.9

none

Release R6.0.1.5

none

Release R6.0.0.9

none

Message changes

N/A



5 Resolved issues

Overview

Purpose

This chapter describes resolved issues in the release.

Contents

This chapter covers this topic.

| | |
|-----------------|-----|
| Resolved issues | 5-2 |
|-----------------|-----|

Resolved issues

Following are resolved issues in this release.

Release R6.2.0.3

Table 5.1 Customer FR/CR

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|------------|---|
| OCNA01FAG207896 | CUSA00FAG207870 | G2 | FRA/ORANGE | NE Software Change from XMC not offered for ngHLR |

Table 5.2 Other FR/CR

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|-----------------|--|
| OCNA01CAG161029 | OCNA01CAG161029 | G0 | R5-STAND-PROD | XMC should be able to correctly manage NEs in different Timezones |
| OCNA01CAG207913 | 3CMGPRCAG207867 | G3 | U31.3-STAND-PRO | RA/RNC Management:Deletion more RA/RNC records. |
| OCNA01FAG207911 | 3CMGPRFAG207860 | G4 | U31.3-STAND-PRO | RA/RNC Management:lower/upper case and order inconsistency |
| OCNA01FAG207912 | 3CMGPRFAG207864 | G3 | U31.3-STAND-PRO | RA/RNC Management: Empty "SGSN View" after SGSN swichover or restart |

Previous releases

Following are resolved issues in previous releases.

Release R6.1.1.5

Table 5.3 Customer FR/CR

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|--------------|---|
| OCNA01CAG154768 | OCNA01CAG154768 | G1 | TMO/T-MOBILE | Navigation to related alarms should have the same behavior in CAL and HAL (sublist created) |
| OCNA01FAG213045 | CUSA00FAG212978 | G1 | CYP/SCANCOM | OMCPS 4.1.6 unreachable |
| OCNA01FAG207898 | CUSA00FAG207876 | G2 | FRA/ORANGE | Log management not offered for ngHLR |
| OCNA01FAG185880 | CUSA00FAG185842 | G3 | FRA/ORANGE | Message area of platform Management empty |

Release R6.1.1.1

Table 5.4 Customer FR/CR

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|--------------|--|
| OCNA01CAG207023 | OCNA01CAG198956 | G1 | ORANGE | Support of WCS 4.21 SP2 |
| OCNA01FAG165006 | OCNA01FAG165006 | G2 | TMO/T-MOBILE | SMTP server configuration should be changed |
| OCNA01FAG200262 | CUSA00FAG200183 | G2 | FRA/ORANGE | application launching takes a long time |
| OCNA01FAG203799 | OCNA01FAG203799 | G2 | ORANGE | Community name used in SNMPNITF traps is not always the same |
| OCNA01FAG204663 | CUSA00FAG191519 | G2 | FRA/ORANGE | Not all text in description field displayed |
| OCNA01FAG168586 | OCNA01FAG168586 | G3 | ORANGE | FM default sublists sometimes are lost. |
| OCNA01FAG188439 | IMSA01FAG187963 | G3 | @IMS 5.1 | Wrong XML file generated by the XMC for 7720 and 5350 NEs |

Table 5.5 Other FR/CR

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|-----------------|--|
| OCNA01CAG169437 | OCNA01CAG169437 | G2 | R5-STAND-PROD | Take into account 8688 MRF evolutions for IMS 3.0 |
| OCNA01FAG188061 | 3CMGPRFAG187854 | G3 | U31.3-STAND-PRO | All the obs files have the same UniqueId, even we have several iGGSN with different name |
| OCNA01FAG207910 | 3CMGPRFAG207856 | G3 | U31.3-STAND-PRO | XMC R6.0.2.9 RA/RNC Management:Inconsistency with document. |

Table 5.6 EXPLS

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|---------------|---|
| OCNA01CAG205543 | OCNA01CAG205543 | G1 | R6-STAND-PROD | management of 5020 WCS 3.41 SP3 requested |

Release R6.1.0.4

Table 5.7 Customer FR/CR

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|-------------|--|
| OCNA01CAG202543 | OCNA01CAG202543 | G2 | CMCC | Introduction of GPRS Subscriber Dumping Tool in XMC. |
| OCNA01FAG191599 | CUSA00FAG191524 | G3 | FRA/ORANG E | OUK TestBed -Clarification over 'permanent processes' within the 'Reboot XMC Procedure' script |

Table 5.8 Other FR/CR

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|---------------|--|
| OCNA01CAG162492 | OCNA01CAG162492 | G0 | R5-STAND-PROD | The release of a NE should be modifiable without deletion/re-creation of the NE in network mgt |

Table 5.9 EXPLS

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|--------|---|
| OCNA01FAG168586 | OCNA01FAG168586 | G3 | ORANGE | FM default sublists sometimes are lost. |

Release R6.0.2.9

Table 5.10 Customer FR/CR

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|-----------------|---|
| OCNA01CAG181006 | OCNA01CAG181006 | G1 | CMCC | Use of Almap API for geting alarm list to reach the requirement of 3GPP |
| OCNA01CAG191781 | OCNA01CAG173404 | G1 | TMO/T-MOBILE | Authentication of the applications should not use sec_app_privkey.pkcs8 |
| OCNA01CAG198956 | OCNA01CAG198956 | G1 | ORANGE | S4.21 SP1 |
| OCNA01FAG185881 | CUSA00FAG185843 | G1 | FRA/ORANGE | Historical alarms are not purged automatically |
| OCNA01FAG188793 | CUSA00FAG188760 | G1 | CHN/CMCC | OMCCN can not received OMC-PS alarm on time |
| OCNA01FAG192063 | CUSA00FAG191983 | G1 | FRA/ORANGE | Immediat backup job not succeed for 2 A7570 MGW |
| OCNA01FAG192236 | CUSA00FAG191612 | G1 | CHN/CMCC/SHANXI | display OMNI threshold alarm |
| OCNA01FAG200831 | CUSA00FAG200606 | G1 | CMR/ORANGE | avoir les NEs legacy |
| OCNA01CAG147494 | OCNA01CAG147494 | G2 | ORANGE | Eliminating non-essential services running on OMC server |
| OCNA01CAG171746 | OCNA01CAG171746 | G2 | ORANGE | XMC portal, ssh, ftp, telnet sessions should contain warning message |
| OCNA01CAG173821 | OCNA01CAG173821 | G2 | ORANGE | A file /etc/host.equiv should be created and empty |
| OCNA01CAG173903 | OCNA01CAG173903 | G2 | ORANGE | Improvmnt of UNIX Event log management |
| OCNA01CAG175002 | OCNA01CAG175002 | G2 | TMO/T-MOBILE | The token session should never be saved in a file |
| OCNA01CAG191304 | OCNA01CAG173903 | G2 | ORANGE | Improvmnt of UNIX Event log management |
| OCNA01FAG191443 | CUSA00FAG191410 | G2 | FRA/ORANGE | A7570 MGW Logs not collected by XMC |
| OCNA01FAG191444 | CUSA00FAG191413 | G2 | FRA/ORANGE | A5020 WCS data backup not offered from XMC |
| OCNA01FAG192830 | OCNA01FAG192830 | G2 | TMO/T-MOBILE | Two UMA KPIs in UMALCSUNCPERF are missing |
| OCNA01FAG200882 | 3CMGPRFAG200814 | G2 | U32-STAND-PROD | In RA/RNC Management ,I can't see RA (or RNC) created afterStop/Start supervision of SGSN |
| OCNA01FAG201326 | OCNA01FAG201326 | G2 | ORANGE | XMdidn'tsendthe alarm trap with fixed |

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|------------|---|
| | | | | varbind. |
| OCNA01FAG176304 | UMAA01FAG174828 | G3 | T-MOBILE | OMC-CN can't download obs xml files. |
| OCNA01FAG179844 | OCNA01FAG179826 | G3 | ORANGE | TOMIX NE created with same 'hostname' as OMC-CN causes processes to crash. |
| OCNA01FAG191226 | OCNA01FAG191226 | G3 | ORANGE | banner text modification not taken into account |
| OCNA01FAG191595 | CUSA00FAG191513 | G3 | FRA/ORANGE | OUC Testbed - Freeze/Unfreeze option not available |
| OCNA01FAG192051 | CUSA00FAG185843 | G3 | FRA/ORANGE | Historical alarms are not purged automatically |
| OCNA01FAG194019 | CUSA00FAG194001 | G3 | FRA/ORANGE | Operator management tasks not friendly used |
| OCNA01FAG194020 | CUSA00FAG194003 | G3 | FRA/ORANGE | password authentication counter not reset |
| OCNA01FAG194888 | OCNA01FAG194888 | G3 | CMCC | No exception is thrown when getting alarm IRP versions if the version is deleted from configuration file. |
| OCNA01FAG195743 | OCNA01FAG195743 | G3 | CMCC | fwkany.jar is not included in the OMCCNodk_Fileset.xml |
| OCNA01FAG197465 | CUSA00FAG197419 | G3 | FRA/ORANGE | Deletion of several user accesses not possible |
| OCNA01FAG202084 | CUSA00FAG201578 | G3 | CMR/ORANGE | Alarms interruption. |

Table 5.11 Other FR/CR

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|---------------|--|
| OCNA01FAG199465 | OCNA01FAG199465 | G1 | R6-STAND-PROD | Remove the Centralized NE Log restriction for Tomix based NE |
| OCNA01FAG182404 | OCNA01FAG182381 | G2 | R5-STAND-PROD | The type of attribute "managedBy" in MO ManagedElement is wrong |
| OCNA01FAG182405 | OCNA01FAG182383 | G2 | R5-STAND- | Wrong event typename of notifyObjectCreation, notifyObjectDeletion and |

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|-----------------------|---|
| | | | PROD | notifyAttributeValueChange |
| OCNA01FAG185488 | UMAE2EFAG185066 | G2 | UMA3.1 STD PROD | There is no all Performance XML files for ATCA node when RP=30mn |
| OCNA01FAG192192 | UMAE2EFAG192189 | G2 | UMA3.1 STD PROD | XMC team should provide nodes team (HSS-WAS and GGW for UMA)with the configurations rules to initialize correctly thesm-transfer-descriptor.ftd tomix file. |
| OCNA01FAG192472 | OCNA01FAG192472 | G2 | R6- STAND- PROD | Take account the parameters nelogSupported in types_releases.cfg for inhibition NELOG |
| OCNA01FAG195150 | UMAE2EFAG195146 | G2 | UMA2.2 STD PROD | XMC R6.0.1 : putty command syntax for opening SSH sessionon NE from XMC Network Management GUI |
| OCNA01FAG173992 | OCNA01FAG173992 | G3 | R6- STAND- PROD | SSH and EXCEED connections authorized even if security unixinstalled |
| OCNA01FAG189202 | UMAE2EFAG188325 | G3 | UMA3.1 STD PROD | Redundancy unlocked after upgrade from R6.0.1.1 to R6.0.1.3 |

Table 5.12 EXPLS

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|-----------------------|---|
| OCNA01FAG188793 | CUSA00FAG188760 | G1 | CHN/CM CC | OMCCN can not received OMC-PS alarm on time |
| OCNA01FAG198027 | OCNA01FAG198027 | G2 | R6- STAND- PROD | For 5430 SRB, remove the checkNENName. |
| OCNA01FAG179844 | OCNA01FAG179826 | G3 | R5- STAND- PROD | TOMIX NE created with same 'hostname' as OMC-CN causes processes to crash |

Release R6.0.1.5

Table 5.13 Customer FR/CR

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|-----------------|---|
| OCNA01CAG141734 | OCNA01CAG141734 | G1 | TMO/T-MOBILE | NE user/password should be configurable at NE creation |
| OCNA01CAG164743 | OCNA01CAG164743 | G1 | TMO/T-MOBILE | OMC-CN Home Page should not give access to "sensitive information" |
| OCNA01CAG173404 | OCNA01CAG173404 | G1 | TMO/T-MOBILE | Authentication of the applications should not use sec_app_privkey.pkcs8 |
| OCNA01CAG173478 | OCNA01CAG173478 | G1 | TMO/T-MOBILE | Telnet and ftp should be disabled when UNIX security is installed |
| OCNA01CAG174097 | OCNA01CAG174097 | G1 | TMO/T-MOBILE | awplsmks, ssolsmks should not be downloaded on the client |
| OCNA01CAG174501 | OCNA01CAG174501 | G1 | TMO/T-MOBILE | OMC should dynamically support http/https enabled NE |
| OCNA01CAG174627 | OCNA01CAG174627 | G1 | TMO/T-MOBILE | SSH config should use public key authentication |
| OCNA01FAG186003 | OCNA01FAG185999 | G1 | THA/TA_O RANGE | TrueMove: missing alarm mapping for id 17903 |
| OCNA01CAG171656 | OCNA01CAG171656 | G2 | ORANGE | NTP daemon responds to info packets |
| OCNA01CAG171661 | OCNA01CAG171661 | G2 | TMO/T-MOBILE | HTTPS should be use instead of HTTP |
| OCNA01CAG174566 | OCNA01CAG174566 | G2 | TMO/T-MOBILE | OMC must support access control on some Tomix NE files |
| OCNA01CAG174644 | OCNA01CAG171661 | G2 | TMO/T-MOBILE | HTTPS should be use instead of HTTP |
| OCNA01FAG184336 | UMAE2EFAG184260 | G2 | UMA3.1 STD PROD | At user account creation, the allowed password doesn't follow complexity rules |
| OCNA01FAG187400 | UMAE2EFAG187066 | G2 | UMA3.1 STD PROD | Certain files still contain clear password |
| OCNA01FAG185773 | UMAE2EFAG184859 | G3 | UMA3.1 STD PROD | There is not Performance CSVon XMC when there is character ":" in directory name and file name in which there isthe result of Observation job |
| OCNA01FAG188253 | OCNA01FAG188253 | G3 | ORANGE | SessionAdministration application not availble with Adminprofile |
| OCNA01FAG185777 | UMAE2EFAG184924 | G4 | UMA3.1 STD PROD | InPerformanceInforscrethesameclock reference (GMT or local) |

Table 5.14 Other FR/CR

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|---------------|---|
| OCNA01CAG169432 | OCNA01CAG169432 | G2 | R5-STAND-PROD | Take into account 7720 ABC evolutions for IMS 2.1 |
| OCNA01CAG169433 | OCNA01CAG169433 | G2 | R5-STAND-PROD | Take into account 5020 CSC evolutions for IMS 2.1 |
| OCNA01FAG179811 | OCNA01FAG179808 | G1 | R5-STAND-PROD | United States DST rules changes |

Table 5.15 EXPLS

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|---------------|--|
| OCNA01FAG188221 | OCNA01FAG179585 | G2 | R5-STAND-PROD | alarm not cleared on FM Current Alarm List but cleared on DMSCCM |
| OCNA01CAG142577 | OCNA01CAG142577 | G3 | R5-STAND-PROD | Implementation of a log browser in Platform USM |

Release R6.0.0.9

Table 5.16 Customer FR/CR

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|--------------|--|
| OCNA01CAG164999 | OCNA01CAG164999 | G1 | TMO/T-MOBILE | MySql should be upgraded to 4.1.18 |
| OCNA01CAG170676 | OCNA01CAG167652 | G2 | TMO/T-MOBILE | UNC SGW Netrake: Patch 3.2.x : 1 new trap to map (mteTriggerFired) + new mteTrriggerRising/Falling attribute extension |
| OCNA01CAG174792 | OCNA01CAG171223 | G2 | ORANGE | Update the release of 7570 MG |

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|---------------|--|
| OCNA01CAG174793 | OCNA01CAG171219 | G2 | ORANGE | Update release R4x for 5020 WCS /Atrium DMSC |
| OCNA01CAG178164 | OCNA01CAG174188 | G2 | TMO/T-MOBILE | UNC SGW Netrake release 3.2.1 P6: 6 new traps + mib objectsto integrate into perf |
| OCNA01FAG169277 | OCNA01FAG169277 | G2 | THA/TA_ORANGE | un-handled exception in OS2OS traces |
| OCNA01FAG175556 | OCNA01FAG173688 | G2 | TMO/T-MOBILE | UNC SGW Netrake: radiusAccClientServerPortNumber is not present in Netrake SGW KPI file |
| OCNA01FAG175558 | OCNA01FAG174232 | G2 | THA/TA_ORANGE | Implement new defense mechanism to check the TOMIX consumer |
| OCNA01FAG153182 | TSTA01FAG146790 | G3 | THA/TA_ORANGE | OMCCN 5.1 - Stop processes : Information to connected usersto be improved |
| OCNA01FAG172337 | OCNA01FAG172337 | G3 | CELCOM | TomasError code not shown in TOMAS-CM traces for some Exceptions |
| OCNA01FAG173693 | OCNA01FAG173693 | G3 | TMO/T-MOBILE | UNC SGW Netrake: nrIPsecNumEgressTunnels KPIs not logged atOMC-CN |
| OCNA01FAG181333 | OCNA01FAG173073 | G3 | CMCC | Alarm ID is missing in the cleared and acknow-changed trap.In all traps, domain_name and type_name are used but they are not defined with specific OID |

Table 5.17 Other FR/CR

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|----------------|---|
| OCNA01CAG132346 | OCNA01CAG132346 | G1 | R5-STAND-PROD | No Broadcast messages to active users |
| OCNA01CAG140698 | 3CMGPRCAG140093 | G1 | U31-STAND-PROD | Flexible PM collection per NE shall be supported |
| OCNA01FAG170642 | OCNA01FAG170367 | G1 | R5-STAND-PROD | script MF-amanda-restore.pl contains syntax error on line 346 |
| OCNA01CAG169082 | OCNA01CAG169082 | G2 | R5-STAND-PROD | The new traps generated by QOSAC R2.0 should be handled |
| OCNA01CAG137654 | OCNA01CAG137654 | G2 | R5-STAND- | Improvements of Backup/Restore function |

| Registration Number | Origin Number | Severity | MARKET | SHORT DESCRIPTION |
|---------------------|-----------------|----------|-----------------|---|
| | | | PROD | |
| OCNA01CAG170583 | OCNA01CAG170583 | G2 | R5-STAND-PROD | Take into account OMC CS R3.4 |
| OCNA01CAG176641 | OCNA01CAG169439 | G2 | R5-STAND-PROD | Take into account 8610 PPS evolutions for IMS 2.1 |
| OCNA01CAG177738 | OCNA01CAG169513 | G2 | R5-STAND-PROD | Take into account IM-HSS evolutions for IMS 2.1 |
| OCNA01FAG170636 | OCNA01FAG169286 | G2 | R5-STAND-PROD | The management of the collection SYSGRPPERF is failed with 5020 WCS R3.2 |
| OCNA01FAG170688 | OCNA01FAG170688 | G2 | R5-STAND-PROD | After a stop supervision the DMSC still wait for the resynchronization traps |
| OCNA01FAG174660 | UMAE2EFAG174643 | G2 | UMA2.2 STD PROD | Geographical Redundancy :Replication failed, error message : "Abort the replication due to script execution failure : pre replication script" |
| OCNA01FAG175565 | UMAE2EFAG175550 | G2 | UMA2.2 STD PROD | OMCCN R5.3 : needs a stop/start supervision of GW to retrieve backup files list and action list |
| OCNA01FAG146335 | 3CMGPRFAG142793 | G3 | U31-STAND-PROD | Bad help on "about fault management" |
| OCNA01FAG170271 | OCNA01FAG168569 | G3 | R5-STAND-PROD | CAH unusable on T1E1 alarms |
| OCNA01FAG170678 | OCNA01FAG148261 | G3 | R5-STAND-PROD | UNC SGW Netrake: Exact list of performances counter |
| OCNA01FAG183445 | OCNA01FAG183445 | G3 | R5-STAND-PROD | Defense needed in OMC-CN installation options handling |



6 Known issues

Overview

Purpose

This chapter describes known issues and workarounds if available for this release.

Contents

This chapter covers these topics.

| | |
|------------------------------|-----|
| Functional restrictions | 6-2 |
| Known issues and workarounds | 6-5 |

Functional restrictions

Following are functional restrictions in this release.

Release R6.2.0.3

- NE Friendly Name Modification
- For multi-NE scripting on Tomix nodes :
 - o Corbascript is available only on HP-UX platform, abandoned on Linux platform.
 - o Python is available only on Linux platform
- Map View evolution for hierarchical view.
- XMC/Linux hardware supervision.

Previous releases

Release R6.1.1.1

- NE Friendly Name Modification
- XMC gateway
- Performance Management from GUI not available for iGGSN, latency reports.
- Performance files not collected for legacy OMC CS/PS and ISMC NE.
- XMC/Linux hardware supervision.
- For multi-NE scripting on Tomix nodes :
 - o Corbascript is available only on HP-UX platform, abandoned on Linux platform.
 - o Python is available only on Linux platform
- Map View evolution for hierarchical view.
- Email/SMS on Alarm.
- New SS7 Obs file with TOMIX MD7 SP2.
- HC4 Multi-NE scripting support.

Following are functional restrictions in previous releases.

Release R6.1.0.6

- Performance Management from GUI not available for iGGSN, latency reports.
- Performance files not collected for legacy OMC CS/PS and ISMC NE.
- XMC/Linux hardware supervision
- For multi-NE scripting on Tomix nodes :
 - Corbascript is available only on HP-UX platform, abandoned on Linux platform.
 - Python is available only on Linux platform
 - Map View evolution for hierarchical view
 - Email/SMS on Alarm
 - New SS7 Obs file with TOMIX MD7 SP2
 - HC4 Multi-NE scripting support

Release R6.0.2.9

- Performance Management from GUI not available for iGGSN, latency reports.
- Performance files not collected for legacy OMC CS/PS and ISMC NE.
- XMC/Linux hardware supervision
- Install XMC with SNMP forwarder profile.
- For multi-NE scripting on Tomix nodes, Corbascript is available only on HP-UX platform and python is available only on Linux platform

Release R6.0.1.5

- Centralized Log management
- SVC on Tomix node.
- NE Resources Browsing.
- Save user preferences in MapView.
- Unix security on LINUX platform.
- Performance Management from GUI not available for iGGSN, latency reports.
- Performance files not collected for legacy OMC CS/PS and ISMC NE.

- XMC/Linux hardware supervision
- Support of Netscreen firewall

Release R6.0.0.9

- Centralized Log management for XMC and Tomix NE.
- NE Resources Browsing.
- Save user preferences in MapView.
- XMC full backup on LINUX platform.
- Unix security on LINUX platform.
- Performance Management from GUI not available for iGGSN, latency reports.
- Performance files not collected for legacy OMC CS/PS and ISMC NE.
- XMC/Linux hardware supervision
- Support of Netscreen firewall and 8965C3S NE.

Known issues and workarounds

Following are known issues and workarounds (if available) in this release.

FAULT MANAGEMENT

| FR NUMBER | Severity | Description |
|-----------------|----------|--|
| OCNA01FAG193404 | G2 | <p>PROBLEM: shared sublists created by an operator ("lambda" for example) who is removed cannot be suppressed.</p> <p>WORKAROUND: Create again a user with the same login (in our case "lambda"); this user recovers the sublists (shared and non-shared too) previously created. You can now remove the sublists created by the operator lambda.</p> |
| OCNA01FAG204598 | G2 | <p>PROBLEM: After restart of FM cur and hist processes, a "Session service is temporarily unavailable" message error appears and FM CUR and Hist alarm USMs could not be launched at all.</p> <p>WORKAROUND: Restart fmcursum and fmhistum processes on the server.</p> |
| OCNA01FAG205345 | G2 | <p>PROBLEM: In Fault Management sublists : the user may face to a dysfunction of filters based on Specific Problem field.</p> <p>WORKAROUND: The Specific Problem alarm field format is either a String or an OID, translated to a String to be displayed. The user is not able to know in advance the format of the Specific Problem field.</p> <p>When the format of the Specific Problem field is String, only "SubString" operator can be used to define filters.</p> <p>When the format of the Specific Problem field is an OID, the "SubString" operator is not usable and the other proposed operators as "Equals to" are usable. So using the Specific Problem in a sublist may not work fine; in that case, the user has to apply the complementary solution.</p> |
| OCNA01FAG184656 | G3 | <p>PROBLEM: the Web portal login is not case sensitive but the UDM persistency is case sensitive, so any sublist modification done by "AXADMIN" is not taken into account for "axadmin".</p> <p>WORKAROUND: Always log in with username in lower case</p> |

NORTH INTERFACE

| FR NUMBER | Gravity | Description |
|-----------------|---------|--|
| OCNA01FAG164313 | G3 | <p>PROBLEM: The 3GPP support in the different CMs must be deactivated if 3GPP package is not installed.</p> <p>WORKAROUND: Set the 3gpp_support parameter to false value in param.cfg file of every CM.</p> <ul style="list-style-type: none"> - iggsncm: In /alcatel/omc1/OMC_IGGSNCM/config/im/param.cfg file, set to false the "CmDomain.support_3gpp" parameter. - dmssccm: In /alcatel/omc1/OMC_DMSSCCM/config/im/param.cfg file, set to false value the "_3gppdomain.support_3gpp" parameter. - dmssccm: In /alcatel/omc1/OMC_TOMASCM/config/im/param.cfg file, set to false value the "_3gppdomain.support_3gpp" parameter. |

MANAGED NE

| FR NUMBER | Gravity | Description |
|-----------------|---------|--|
| OCNA01FAG185506 | G2 | <p>PROBLEM: SFTP with Login/Password Authentication fails on OMC CS NE.</p> <p>WORKAROUND: Define the password with no more than 8 characters.</p> <hr/> <p>Note : If the Public Key Authentication is configured for sftp account, OMC-CS supervision from XMC works fine.</p> <hr/> |
| OCNA01FAG212813 | G2 | <p>PROBLEM: When OMC-P becomes reachable, a resynchronization is correctly launched and new alarms (if exist) are retrieved but alarms previously cleared are not removed from FM CAL.</p> <p>WORKAROUND: In case of reachability problem, operator has to stop/start OMC-P supervision to resynchronize CAL. As a whole alarms re-synchronization is launched when NE becomes reachable, a purge ("invalid alarm list") should be sent to FM CAL before this resynchronization.</p> |
| OCNA01FAG213510 | G2 | <p>PROBLEM: 5350 IAS: CAH doesn't work for alarms related to "Applications".</p> |

| FR NUMBER | Gravity | Description |
|-----------------|---------|---|
| | | WORKAROUND: None. |
| OCNA01FAG203290 | G3 | <p>PROBLEM: For LCP discovered NEs, if snmpcm process is restarted, the fields "priority" and "location name" are erased in "NE information" tab.</p> <p>WORKAROUND: These fields may be filled by using the NE modification.</p> |
| OCNA01FAG203982 | G3 | <p>PROBLEM: Disable navigation to 5750 SSC "EML" .</p> <p>WORKAROUND: Install the Service Manager by download it from the 5750 SSC workstation on which the provisioning server is installed.</p> <ul style="list-style-type: none"> - Use a browser to connect to the 5750 SSC Provisioning Server: http://hostname:32000/middleware/updater/ where "hostname" is the IP address of the Unix workstation on which the 5750 SSC is installed. - Double-click setup.exe to install the Service Manager. An information dialog appears. Read the instructions. - Click Next to continue. A dialog with licensing information appears. Read the licensing agreement. - Click Yes, then Next to accept the terms of the agreement. - At the prompt, choose an installation directory, then click Next. The default is C:\Program Files\Bridgewater\Service Manager <version> - Click Install. Click Done. |
| OCNA01FAG203987 | G3 | <p>PROBLEM: The "Open a Network Management Session" fails for discovered NE of a LCP subnetwork.</p> <p>WORKAROUND: Its work at LCP subnetwork instance.</p> |

NE SOFTWARE AND DATA MANAGEMENT

| FR NUMBER | Gravity | Description |
|-----------------|---------|---|
| OCNA01FAG213427 | G1 | <p>PROBLEM: OS6800/DNS NE data backup does not work any more.</p> <p>WORKAROUND: Add in /alcatel/omcl/htdocs/OMC_COMMON/config/types_releases.cfg the following lines and restart swim process.</p> <ul style="list-style-type: none"> • For DNS swdomain.backupDescriptors.6 = FTP_STD_FILESET:DNSconfiguration |

| FR NUMBER | Gravity | Description |
|-----------------|---------|---|
| | | <p>Files: /var/named, /etc/named.conf, /etc/snmp/snmpd.conf, /etc/ntp/step-tickers, /etc/ntp.conf, /etc#</p> <ul style="list-style-type: none"> • Common fileset description for all 68xx... use FTP active mode. <p>swdomain.fileset.os68xx=/flash/certified/boot.cfg, /flash/switch##/flash/switch/*.txt, /flash/network##/flash/network/userTable.</p> |
| OCNA01FAG176153 | G2 | <p>PROBLEM: It's not an XMC problem but a TOMIX one. When an operator ABORTS a software download, the ngHLR "DELIV" directory is not automatically cleared and files, partially copied, stay in this directory.</p> <p>Consequence: If the specific file "VersionName.txt" has been transferred (before transfer abort) the release will be proposed by the XMC to be "activated" and the "activate" command could be launched by operator for a wrong release installation.</p> <p>WORKAROUND: Manually, operator has to delete all files contained in "DELIV" ngHLR directory and launch a Stop/StartHLR supervision to resynchronize XMC and ngHLR.</p> |
| OCNA01FAG192361 | G3 | <p>PROBLEM: During a download command, if a stop/start NE supervision is launched, the state "DOWNLOADING" is lost and all commands are available whereas an action (download) is already in progress from NE side.</p> <p>In this state, another download command can be launched, an error message is sent by NE, but it is not treated by TOMAS so the job will be ended on timeout with the following error message: "The EML-IM component is unreachable - Communication problem" .</p> <p>The job should be immediately ended with the right message: "Action already in progress...."</p> <p>WORKAROUND: None</p> |
| OCNA01FAG198479 | G3 | <p>PROBLEM: If a NE is removed, all backup files disappear from "Backup Information" pane (they are transferred to the "Other backups (NE no more exist)" folder).</p> <p>When this same NE is created again, backup files are no more attached dynamically to the NE.</p> <p>WORKAROUND: Close and re-open Network Management USM to retrieved a right display.</p> |
| OCNA01FAG200353 | G3 | <p>PROBLEM: Activable "Software state" lost after a backup job.</p> <p>WORKAROUND: Operator has to stop/start supervision to resynchronize NE states.</p> |
| OCNA01FAG205551 | G3 | <p>PROBLEM: Into Network Management when the module "Job Management" is loaded, the Backup Information tab contains the name and some information about the NE data backup done on each target NE.</p> <p>The Backup Information tab contains also the "Backup repository used space" which indicates the percentage of occupation of the backup disk.</p> <p>When a switchover have just been done, the Network Management of the new active XMC is opened and the Backup Information tab is selected, the "Backup repository used space" value is 0%. The correct value is updated either when a new NE data backup is executed or after a delay of an hour.</p> <p>WORKAROUND: Launch a NE data backup on a target NE or wait for an hour.</p> |

NETWORK MANAGEMENT

| FR NUMBER | Gravity | Description |
|-----------------|---------|---|
| OCNA01FAG208060 | G1 | <p>PROBLEM: The installation and the supervision of the nodes DMSCCM process can become unreachable due to excessive memory use. So, no more Start/Stop Supervision and Declaration of DMSC NE is possible</p> <p>WORKAROUND: Restart SUPIM/DMSCCM processes.</p> |
| OCNA01FAG205445 | G3 | <p>PROBLEM: Sometimes it may happen the tree view display of "Performance Profile Management" window looks bad. It may occur when a new profile is created; in that case there is a long space between profile icons. This problem is no systematic and frequency is very low.</p> <p>WORKAROUND: Close an re-open the "Network management" window.</p> |
| OCNA01FAG206941 | G3 | <p>PROBLEM: Strange behaviours on navigation actions due to the use of a USDS name already in use as a Friendly Name : alarms belonging to another NE displayed in FM CAL, Telnet/SSH session open on another NE, ...</p> <p>WORKAROUND: Do not use for an USDS name a Friendly Name already in use.</p> |

PERFORMANCE MANAGEMENT

| FR NUMBER | Gravity | Description |
|-----------------|---------|--|
| OCNA01FAG147983 | G2 | <p>PROBLEM: When the DMSC NE and the XMC are not in the same timezone, the value (date and time) of the information "Starttime" and "Endtime" are not correct into the performance file names.</p> <p>The date and time given into the performance file name are not consistent with the real date and time of the NE.</p> <p>There is a time shift which corresponds to the difference between the XMC and NE timezones.</p> <p>WORKAROUND: None.</p> |
| OCNA01FAG179249 | G2 | <p>PROBLEM: After starting performance collection, the performance files may be collected after several hours if the NEs (Tomix or Atrium NE types) and the XMC are in different timezones.</p> <p>The time shift depends on the difference between the hour of the XMC and the hour of the node.</p> <p>The performance collection will be recovered again after a duration corresponding to the time shift.</p> <p>WORKAROUND: None.</p> |
| OCNA01FAG179284 | G2 | <p>PROBLEM: If a Tomix NE performance job has been started before a daylight</p> |

| FR NUMBER | Gravity | Description |
|-----------|---------|--|
| | | <p>saving time modification and if this job is going on, the generated 'csv' performance files on NE will contain a wrong timezone offset (corresponding to the offset preceding the daylight saving time modification and not to the current one).</p> <p>As a consequence, the content and the names of result performance files generated on XMC will be wrong as they will contain the wrong NE offset.</p> <p>WORKAROUND: Stop then restart the jobs on impacted NEs through the NE embedded management application.</p> |

XMC REDUNDANCY

| FR NUMBER | Gravity | Description |
|-----------------|---------|---|
| OCNA01FAG212748 | G2 | <p>PROBLEM: Performance files not transferred on READY when Friendly Name contains spaces .ACTIVE XMC.</p> <p>WORKAROUND: None.</p> |
| OCNA01FAG162704 | G3 | <p>PROBLEM: In Redundant XMC configuration, in case of restoration failure in the 'ready' XMC, the last successful restoration is not re-installed.</p> <p>WORKAROUND: A new replication may be launched manually by using the Platform Management -> Geographical Redundancy view: click on 'Start Replication' button to initiate a replication from 'Active' to 'Ready' XMC server.</p> |
| OCNA01FAG192454 | G3 | <p>PROBLEM: In case of redundancy XMC and after the installation ngHLR with security, the tomix public key must be transferred and installed on distant SSH server (XMC active & ready); but on the XMC ready, it is no possible because the SFTP account is disabled.</p> <p>WORKAROUND: Switchover XMC, the READY XMC becomes ACTIVE XMC.</p> |
| OCNA01FAG206585 | G3 | <p>PROBLEM: The replication between ACTIVE and READY XMC never finishes and remains "In Progress" state on ACTIVE XMC.</p> <p>WORKAROUND: Unlock <code>axadmin</code> account on READY XMC (<code>/install/scripts/user_lock.sh unlockaxadmin</code>), restart <code>georedim</code> process on ACTIVE XMC and launch the replication again.</p> |

XMC SYSTEM MANAGEMENT

| FR NUMBER | Gravity | Description |
|-----------|---------|-------------|
|-----------|---------|-------------|

| FR NUMBER | Gravity | Description |
|-----------------|---------|---|
| OCNA01FAG208075 | G2 | <p>PROBLEM: Depending on supervised NE types, the SNMPCM process may last a long time to complete initialization, because waiting for end of alarm resynchronization with Network Elements.</p> <p>This was observed with SNMPCM supervising :</p> <ul style="list-style-type: none"> - 14 SGW Netrake NE - 21 UNC GGW Router NE - 10 UNC GGW ConverT1E1 NE - 2 Radware Load Balancer NE. <p>The issue seems to be caused mainly by ConverT1E1 NE that take a very long time to achieve alarm synchronization (several minutes for each NE). The consequence when restarting SNMPCM is that it is not accepting Corba communications while initialization is not complete.</p> <p>In full OMCCN restart, this causes SUPIM process to hang waiting for SNMPCM, and blocks completion of system init.</p> <p>WORKAROUND: stopping OMCCN processes, stop supervision of SNMPCM NE. If this is not possible,</p> <ul style="list-style-type: none"> • force supervision to off while OMCCN processes are stopped by entering the following command for each ne_type actually supervised in CM. (changing <netype-value> with corresponding ne-types, for example 24 then 28, then 29, then 40 for ne_types mentioned above): <pre>#/opt/mysql/bin/mysql -u omccn --password=myomccn OMCCN -e "update NE_TABLE set supervision_state=0 where ne_type=<;ne_type>" .</pre> |
| OCNA01FAG211617 | G2 | <p>PROBLEM: Unable to add Client Host Declarer after installation.</p> <p>WORKAROUND:</p> <ul style="list-style-type: none"> - Edit file: #/alcatel/omcl/htdocs/SSO/lsm/config/param.cfg, - search for a line with contents. : SESSION_HOOK_IMPLEMENTATION "com.alcatel.omc.cltdec.ClientDeclarer" - If this line does not exist, add it after line:ROOT_CA_KEYSTORE_ALIAS "ssoRootCA" |
| OCNA01FAG212273 | G2 | <p>PROBLEM: Unmount /dvdrom fails at the end of XMC upgrade from XMC_SW DVD(HP-UX)</p> <p>WORKAROUND: Stop and start inetd unmount manually /cdrom to remove DVD from device :</p> <pre>#/sbin/init.d/inetd stop Internet Services stopped #cd /sbin/init.d/inetd start Internet Services started # umount /cdrom</pre> |
| OCNA01FAG213379 | G2 | <p>PROBLEM: Changing by script the NE Types List on XMC after installation</p> |

| FR NUMBER | Gravity | Description |
|-----------------|---------|---|
| | | <p>does not work properly any more.</p> <p>WORKAROUND: After script <code>omc_configure.pl</code> execution, and before restarting XMC processes, modify manually NE IdList in <code>types_releases.cfg</code> file (available under <code>/alcatel/omc1/htdocs/OMC_COMMON/config/</code>) according to new NEs list supported.</p> <p>Another solution: change supported NE Types List by XMC upgrade instead.</p> |
| OCNA01FAG149859 | G3 | <p>PROBLEM: Sometimes when restarting the whole XMC through Platform Management - Resources Monitoring USM (select "Restart" option on XMC icon) it could happen it does not succeed. XMC should be stopped then automatically restarted but some processes remains in "stopped" state.</p> <p>WORKAROUND:</p> <ul style="list-style-type: none"> - Open a unix session with XMC server using "axadmin" account. - <code>cd /alcatel/omc1/OMC_MON/scripts</code> - stop XMC processes launching StopXMC script: <code>./StopXMC</code> - start XMC launching StartXMC script: <code>./StartXMC</code> - the current processes status may be displayed using the CheckXMC script: <code>./CheckXMC</code> |
| OCNA01FAG153103 | G3 | <p>PROBLEM: Server date/time change is not taken into account XMC java processes.</p> <p>WORKAROUND: XMC have to be fully restarted when a date/time change is done on the server.</p> |
| OCNA01FAG158008 | G3 | <p>PROBLEM: If a hard disk is removed, a spontaneous alarm is generated in Fault Management. But after a while this alarm may be cleared and created again although without any change on disk.</p> <p>WORKAROUND: None</p> |
| OCNA01FAG184930 | G3 | <p>PROBLEM: After a data replication NEACD-IM process may crash and does not succeed to restart on active XMC. This issue is not systematic.</p> <p>WORKAROUND: In order:</p> <ul style="list-style-type: none"> • stop the processes <code>secsrv</code>, <code>sas</code> and <code>neacd</code> as described in the Platform Administrator Guide documentation; • restart in order <code>secsrv</code>, <code>sas</code> and <code>neacd</code>. |
| OCNA01FAG210457 | G3 | <p>PROBLEM: XMC Redhat Linux distribution installation fails when using virtual media (iLO2).</p> <p>WORKAROUND: None.</p> |

| FR NUMBER | Gravity | Description |
|-----------------|---------|--|
| OCNA01FAG213139 | G3 | <p>PROBLEM: Umount installation device fails at the end of XMC upgrade from XMC_SW (Linux).</p> <p>WORKAROUND: Umount manually after upgrade by using commands:</p> <ul style="list-style-type: none"> - lsof grep isodvd - umount /media/isodvd |



7 System requirements

Overview

Purpose

This chapter describes software and hardware requirements and compatibility restrictions.

Contents

This chapter covers these topics.

| | |
|--|-----|
| Software requirements | 7-2 |
| Hardware requirements | 7-2 |
| Compatibility restrictions | 7-4 |
| Third-party and other software/hardware requirements | 7-5 |

Software requirements

Operator Workplace requirement

The operator workplace runs under:

- Windows XP
- Windows vista

Hardware requirements

| TECHNICAL STATUS | | |
|--------------------------------|-----------------|---------------------------------------|
| PRODUCT | SOFTWARE LEVEL | HARDWARE LEVEL |
| Alcatel-Lucent 1300 XMC | R6.2.0.3 | PHR112 See Table 1.8 |

HPUX platform

| | |
|------------------------------|---------------------|
| Lab, field trial | B2600, C8000 |
| Reuse of OMC-CS/PS hw | rp5430, rp5470 |
| Deployment | rp4440 (2 to 8 CPU) |

LINUX platform

| | |
|-------------------------|---------------------------------|
| Lab, field trial | ML350-G5 (1 dual-core CPU) |
| Deployment | DL580-G5 (1 to 2 quad-core CPU) |

Operator Workplace Computer

| | |
|------------|------|
| Processor | - |
| RAM | 2 Go |
| Disk Space | - |

Compatibility restrictions

None.

Third-party and other software/hardware requirements

The third-party are delivered in the 1300XMC suite. The third-party and hardware components are listed in the section Documentation deliverables page 1-21.



8 Installation and upgrade notes

Overview

Purpose

This chapter contains notes on installation and upgrade procedures.

Contents

This chapter covers these topics.

| | |
|---|-----|
| Performing first-time installation | 8-2 |
| Performing upgrades | 8-4 |
| Upgrade paths | 8-6 |
| Security hardening | 8-7 |
| Features activation | 8-8 |
| Obtaining and installing third-party software | 8-9 |

Performing first-time installation

Table 8.1 XMC server installation procedures documentation

| TITLE | REFERENCE | Ed |
|---|-------------------|----|
| PROCEDURES COMPONENTS | | |
| External Release Note R6.2.0.3 | 3BL65277GCAAFMZZA | 01 |
| Installation Guide XMC R6.2.0 | 3BL59911GCAARJZZA | 02 |
| MPI - XMC disk extension operations | 3BL77800GAAARJZZA | 03 |
| Guidelines for Network Deployment | 3BL77799GBBAPCZZA | 01 |
| Generic MPI - Creating and upgrading - XMC R6.1.1 | 3BL59911GBBAPCZZA | 01 |
| XMC R6.1.0 data handbook | 3BL59911GBAATCZZA | 03 |

Table 8.2 Operator Workplace installation procedures documentation

| TITLE | REFERENCE | Ed |
|---|-------------------|----|
| PROCEDURES COMPONENTS | | |
| Installation Guide XMC R6.2.0 | 3BL59911GCAARJZZA | 02 |
| Platform administration guide (chapter XMC Operator Workplace installation) | 3BL65020GBBAPCZZA | 02 |

To obtain documentation from OnLine Customer Support

IMS Solution and product documentation is available to IMS solution customers through OnLine Customer Support (OLCS).

To navigate to OLCS:

- Go to <https://support.lucent.com/portal/productIndexByCat.do>

- Select the alphabetic section for the product or solution for which you require documentation.
For 1300 XMC documentation, select #, **A-C** and scroll to the # section to select **1300 XMC (Cross-Domain Management Center)**
- To obtain manuals, select **Manuals and Guides**. To obtain release notes, select **Release Information**.

To obtain documentation from GEDI

At the present time, 1300 XMC documentation is available on through GEDI.

To Navigate to customer documentation:

- Go to <http://gedi.ln.cit.alcatel.fr/gedi/>
- Select Documents, Access to published documents and search a document by the reference.

Performing upgrades

The upgrade procedure documentation are identical as the previous section.

Table 8.3 XMC server installation procedures documentation

| TITLE | REFERENCE | Ed |
|---|-------------------|----|
| PROCEDURES COMPONENTS | | |
| Installation Guide XMC R6.2.0 | 3BL59911GCAARJZZA | 02 |
| MPI - XMC disk extension operations | 3BL77800GAAARJZZA | 03 |
| Guidelines for Network Deployment | 3BL77799GBBAPCZZA | 01 |
| Generic MPI - Creating and upgrading - XMC R6.1.1 | 3BL59911GBBAPCZZA | 01 |
| XMC R6.1.0 data handbook | 3BL59911GBAATCZZA | 03 |

Table 8.4 Operator Workplace installation procedures documentation

| TITLE | REFERENCE | Ed |
|---|-------------------|----|
| PROCEDURES COMPONENTS | | |
| Installation Guide XMC R6.2.0 | 3BL59911GCAARJZZA | 02 |
| Platform administration guide (chapter XMC Operator Workplace installation) | 3BL65020GBBAPCZZA | 02 |

To obtain documentation from On Line Customer Support

IMS Solution and product documentation is available to IMS solution customers through OnLine Customer Support (OLCS).

To navigate to OLCS:

- Go to <https://support.lucent.com/portal/productIndexByCat.do>

- Select the alphabetic section for the product or solution for which you require documentation.
For 1300 XMC documentation, select #, **A-C** and scroll to the # section to select **1300 XMC (Cross-Domain Management Center)**
- To obtain manuals, select **Manuals and Guides**. To obtain release notes, select **Release Information**.

To obtain documentation from GEDI

At the present time, 1300 XMC documentation is available on through GEDI.

To Navigate to customer documentation:

- Go to <http://gedi.ln.cit.alcatel.fr/gedi/>
- Select Documents, Access to published documents and search a document by the reference.

Upgrade paths

None.

Security hardening

The security hardening procedures are described over several documents, see detail in the table below.

| TITLE | REFERENCE | Ed |
|-------------------------------|-------------------|----|
| PROCEDURES COMPONENTS | | |
| Installation Guide XMC R6.2.0 | 3BL59911GCAARJZZA | 02 |
| Platform administration guide | 3BL65020GGBAPCZZA | 02 |
| Network Deployment guide | 3BL77799GCAAPCZZA | 01 |
| XMC security strategy | 3BL59923GGBADTZZA | 01 |

Features activation

None.

Obtaining and installing third-party software

The third-party software are included in the Alcatel-lucent 1300 XMC suite. They are listed in the **Table 1.3** (XMC/HP-UX server) and **Table 1.5** (XMC/Linux server) and installed either on XMC server or Operator Workplace side.

| TITLE | REFERENCE | Ed |
|---|-------------------|----|
| PROCEDURES COMPONENTS | | |
| Installation Guide XMC R6.2.0 | 3BL59911GCAARJZZA | 02 |
| Platform administration guide (chapter XMC Operator WorkPlace installation) | 3BL65020GGBAPCZZA | 02 |

To obtain documentation from On Line Customer Support

IMS Solution and product documentation is available to IMS solution customers through OnLine Customer Support (OLCS).

To navigate to OLCS:

- Go to <https://support.lucent.com/portal/productIndexByCat.do>
- Select the alphabetic section for the product or solution for which you require documentation.
For 1300 XMC documentation, select #, **A-C** and scroll to the # section to select **1300 XMC (Cross-Domain Management Center)**
- To obtain manuals, select **Manuals and Guides**. To obtain release notes, select **Release Information**.

To obtain documentation from GEDI

At the present time, 1300 XMC documentation is available on through GEDI.

To Navigate to customer documentation:

- Go to <http://gedi.ln.cit.alcatel.fr/gedi/>
- Select Documents, Access to published documents and search a document by the Reference.

Glossary