N40010

RELEASE NOTE

RELEASED PRODUCT	**N40010**
VERSION	**010405**

☒	**THE RELEASED PRODUCT is a SYSTEM VERSION**	**SAP CODE: N40010-01 405**
☐	**SAP CODE VERSION, DEPENDENT ON ASSOCIATED SYSTEM VERSION**	

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1. INTRODUCTION

This release note is related to the ALCplus2 IDU software, with the equipment controller based on Coldfire microcontroller and operating system VxWorks

The software release supports both IP and OSI stack.
Through a MIB object set operation and a restart it is possibile to switch from a protocol stack to the other one.

2. PREVIOUS RELEASE NOTE

RELEASE DATE	PRODUCT REVISION	NOTES
29/07/2009	1.0.0	Rev.01 of the release note
29/10/2009	1.0.0	Rev.02 of the release note
18/02/2010	1.1.1	Rev.01 of the release note
01/03/2010	1.1.1	Rev.02 of the release note
22/03/2010	1.1.1	Rev.03 of the release note
19/04/2010	1.1.2	Rev.01 of the release note
29/04/2010	1.1.2	Rev.02 of the release note
20/05/2010	1.1.2	Rev.03 of the release note
14/06/2010	1.1.2	Rev.04 of the release note
--	1.1.3	For SIAE Internal use only
09/07/2010	1.1.4	Rev.01 of the release note
27/09/2010	1.1.4	Rev.02 of the release note
19/10/2010	1.2.0	Rev.01 of the release note
03/12/2010	1.2.1	Rev.01 of the release note
10/12/2010	1.2.2	Rev.01 of the release note
14/01/2011	1.2.2	Rev.02 of the release note
09/03/2011	1.2.3	Rev.01 of the release note
11/04/2011	1.2.3	Rev.02 of the release note
06/06/2011	1.2.4	Rev.01 of the release note
15/02/2010	1.3.0	Rev.01 of the release note
11/04/2011	1.3.1	Rev.01 of the release note
06/06/2011	1.3.2	Rev.01 of the release note
29/06/2011	1.3.2	Rev.02 of the release note
21/07/2011	1.3.3	Rev.01 of the release note
15/11/2011	1.3.4	Rev.01 of the release note

28/11/2011	1.4.0	Rev.01 of the release note
16/03/2012	1.4.1	Rev.01 of the release note
23/04/2012	1.4.1	Rev.02 of the release note
08/06/2012	1.4.2	Rev.01 of the release note
26/06/2012	1.4.2	Rev.02 of the release note
05/07/2012	1.4.2	Rev.03 of the release note
17/07/2012	1.4.3	
19/11/2012	1.4.4	

3. REFERENCE DOCUMENTS

DOCUMENT ID	REVISION	ISSUED ON	DOCUMENT TITLE
ALCP2-SIAE-MIB	1.0.13	13/01/2012	Equipment SNMP Mib
RFC 2328		04/1998	OSPF Version 2
RFC 1850		11/1995	OSPF Version 2 MIB

4. FEATURES LIST

ALC Plus 2 IDU feature list:

Communication:

- Ethernet LAN + TCP/IP Stack or OSI (first three levels)
- USB (LCT) + PPP+ TCP/IP
- Radio EOC (Embedded Operating Channel) + PPP + TCP/IP (LAPD G.921 OSI)
- Radio EOC bridge mode
- 1x64Kb/s Time Slot on 2Mb/s + PPP + TCP/IP (LAPD G.921 OSI)
- OSPF Vers. 2 (IS-IS OSI)
- Unnumbered (IP address not required) point to point interface
- In Band management
- Vlan Tagged traffic on Management ports

IDU Configuration:

- IDU board with 4FE/GE (2 x 1000Base-X) Ethernet ports
- 16xE1 expansion board
- 32xE1 + 2xSTM1 expansion board
- 16xE1 + 2xSTM1 + 2x Nodal Bus expansion board

Radio Terminal Configuration:

- 1+0 configuration
- 1+1 hot standby configuration
- 1+1 frequency diversity configuration
- 'IDU only' configuration

Alarm management:

- Alarm event report (SNMP Traps)
- Current Alarm Log
- History Alarm Log
- Alarm Severity programmability

E1 Tributary management:

- Enable/Disable Tributary input.
- Tributary line and internal loops

STM-1 VC4 and VC configuration:

- J0, J1, J2 Path Trace management
- C2, V5 Signal Label management
- VC12 management
- Signal Degrade and Excessive BER threshold selection (B2, B3, V5)

STM-1 – Electrical and optical interface

Eth Lan Tributary and L2 switch management

- Eth Lan Tributary ports
- L2 parameters (Virtual Lan, Flow Control, L2 & L3 Priority)
- Link Los Forwarding management
- Lan protection (proprietary)
- Statistics management
- Rapid Spanning Tree Protocol (RSTP)

Radio equipment management:

- Modulation & Capacity configuration (4QAM to 256 QAM)
- Adaptive Modulation (ACM)

Radio branch management:

- Radio channel selection
- ATPC Management
- Transmitter command (carrier only, transmitter On/Off)
- Rt Power Supply control
- Fade margin evaluation parameters

Cross Connection Matrix

Synchronization Configuration

- Ethenet and TDM synchronisation source management
- Quality management on TDM and ethernet ports

Maintenance:

- E1 line and internal loop
- Eth. port line loop
- Radio loop (Base band, IF and RF)
- Radio switch in 1+1 configuration
- PRBS (Pseudo Random Bit Sequence)
- STM1 MSP
- Nodal Bus forced switch

User Input/Output management:

- User input/output management (environmental alarms)

Performance Monitoring:

- S/N Measure
- P.M. G828 (Radio, E1 line and radio side)
- P.M. G829 STM-1 (B1 and B2-M1)
- P.M. G828 VC-12
- P.M. Rx power level
- P.M. Tx power level
- P.M. ACM profile counters
- PM threshold crossing alarms
- RMON on Ethernet port (Line and Radio side)
- OAM 802.1ag (y_1731) Fault management part

Software Management:

- Software/Firmware release Management
- Local Software/Firmware Download
- Remote Software/Firmware Download

Security Management:

- User Profile management
- User access authentication
- Permanent Login
- IP Access Control List

Hardware inventory:

- Unit inventory

Command Logger

5. NEW AND CHANGED FEATURES

5.1 System Version 01.04.05

The current release fixes only some troubles: it doesn't introduce any upgrade.

5.2 System Version 01.04.04

The current release fixes only some troubles: it doesn't introduce any upgrade.

5.3 System Version 01.04.03

The current release fixes only some troubles: it doesn't introduce any upgrade.

5.4 System Version 01.04.02

The current release fixes only some troubles: it doesn't introduce any upgrade.

5.5 System Version 01.04.01

The current release introduces the following changes and upgrades:

- SETS : synchronisation management according to signal quality including SSM on Ethernet port
- Trasport of SOH bytes
- Mapping of PDH alarms into SDH for external path protection
- Added new modem configuration files for compatibility with ALCplu2e equipment in peak Tx power mode configuration
- Management of Ed.03 IDUs (any type).
- Introduces on IP over OSI interface a filter to avoid loopback with automatic recovery of all managed associations IP-NSAP
- Option to disable the OSI protocol on the ethernet port

The above described features require the following equipment MIB upgrade:

```
--------------------------------------------------------------------------
-- Revision     01.00.13  13/01/2012
-- 13.01.2012   -added object radioEquipE1Type
-- 15.12.2011   -added value enable-compatible to the object
--               radioEquipAcmConstantPeakModeEnable
-- 25.11.2011   -added radioEquipLimTranslatePDHIntoSDHAlarms object
-- 24.11.2011   -added timingSinkE1Sabit and timingSinkEthPortRole objects
--
```

5.6 System Version 01.04.00

The current release introduces the following changes and upgrades:

- RMON and LAN Statistics: management of Tx counters and counter extension to 64 bit
- Management of Ed.03 IDUs GAI0157-3 and GAI0152-3
- Management of optical syncE (requires Ed.03 IDUs).

The above described features require the following equipment MIB upgrade:

```
--------------------------------------------------------------------------------
-- CHANGE HISTORY
--------------------------------------------------------------------------------
-- Revision     01.00.12  15/11/2011
-- 15.11.2011   -added 64 bit counters in ethLanStatsTable and
--               ethLanPortStatCounterBy1000 to enable the division by 1000
```

5.7 System Version 01.03.04

The current release introduces the following changes and upgrades:

- It is possible to permanently set the transmitter to off with no indication of manual operation
- Port based Input Rate Limiting (PIRL) from 10M to 1G with 10Mb/s steps
- StationId length string up to 64 charatters
- SD Card management: it increases the time-out on SD card response to support new Kingston SD/2G
- The software download is not interrupted when a wrong data packet is received, the TCP protocol recovers the discarded data packet. It solves the problem found downloading the Software from NMS5UX (HP-UX Operating System)

The above described features require the following equipment MIB upgrade:

```
--------------------------------------------------------------------------------
-- CHANGE HISTORY
--------------------------------------------------------------------------------
-- Revision     01.00.11  19/10/2011
-- 19.10.2011   -added new port input rate values for
--               ethLanPortEnable in ethLanPortTable
-- 14.10.2011   -added radioBranchPermanentTxStatus to radioBranchTable
-- 01.09.2011   -changed the length of equipStationId
```

5.8 System Version 01.03.03

The current release introduces the following changes and upgrades:

- Packet Vlan Tagging on the Management (MNGT 1&2) ports
- “Mac Table per Vlan” is enabled by default

The above described features require the following equipment MIB upgrade:

```
--------------------------------------------------------------------------------
-- CHANGE HISTORY
--------------------------------------------------------------------------------
-- Revision     01.00.10  21/07/2011
```

```
-- 21/07/2011   -changed default value of ethLanSwitchMacTablePerVid
-- 05/07/2011   -added leaves equipTaggingEnable and equipTaggingVlanId in
--               equipment group.
```

5.9 System Version 01.03.02

The current release introduces the following changes and upgrades:

- 48V power supply alarm management (when available on HW)

The above described features require the following equipment MIB upgrade:

```
--------------------------------------------------------------------------
-- CHANGE HISTORY
--------------------------------------------------------------------------
-- Revision:    01.00.09.02 - 01/06/2011
-- 01.06.2011  -added leaves radioEquipPowerSupply1Alarm and
--              radioEquipPowerSupply2Alarm with their severity and traps
```

5.10 System Version 01.03.01

The current release introduces the following changes and upgrades:

- Management of ATPC functionality when using mixed link 1+0/1+1
- Management of speed on MNGT ports
- Insertion of the user community in the equipment traps

The above described features require the following equipment MIB upgrade:

```
--------------------------------------------------------------------------
-- Revision     01.00.09  22/03/2011
-- 22.03.2011   -added two leaves (equipLan1Speed and equipLan2Speed) in
--               equipment group.
```

5.11 System Version 01.03.00

The current release introduces the following changes and upgrades:

- Ethernet L2 switch: Mac table per Vlan
- Ethernet L2 switch: Mac table per port
- Ethernet traffic squelch on radio loop (IF and RF loop)
- Two new radio loops (IF and RF) not squelching Ethernet traffic
- ALCPlus2 node: In band management using LAN1 and LAN2 as connection among IDU
- ALCplus2 node: it reduces to 4-5 seconds the out of service of Ethernet traffic when a port is switched from electrical to optical and viceversa.

The above described features require the following equipment MIB upgrade:

```
--------------------------------------------------------------------------
-- Revision     01.00.08  04/02/2011
-- 04.02.2011   -added leaf ethLanSwitchMacTablePerVid to ethLanSwitchTable
--              -added values rfEthLoop,ifEthLoop and rfEthLoopLimited to
```

```
--               radioBranchLoop leaf
--              -added value enablePerPort to leaf ethLanPortAddressLearningEnable
```

5.12 System Version 01.02.04

The current release introduces the following changes and upgrades:

- 48V power supply alarm management (when available on HW)

The above described features require the following equipment MIB upgrade:

```
--------------------------------------------------------------------------
-- CHANGE HISTORY
--------------------------------------------------------------------------
-- Revision:    01.00.07.02 - 23/05/2011
-- 23.05.2011  -added leaves radioEquipPowerSupply1Alarm and
--              radioEquipPowerSupply2Alarm with their severity and traps
```

5.13 System Version 01.02.03

The current release introduces the following changes and upgrades:

- ALCPlus2 node: In band management using LAN1 and LAN2 as connection among IDU
- ALCplus2 node: it reduces to 4-5 seconds the out of service of Ethernet traffic when a port is switched from electrical to optical and viceversa.
- Management of ATPC functionality when using mixed link 1+0/1+1

5.14 System Version 01.02.02

The current release introduces the following changes and upgrades:

- IP Access Control List (ACL) management
- Ethernet management port (MNGT1 & MNGT2) disable
- Ethernet OAM-CFM: to guarantee interoperability with Huawei radio equipment it modifies Link Trace Message (LTM) and Link Trace Reply (LTR) introducing:
    - LTM Egress Identifier TLV (Type 7)
    - LTR Egress Identifier TLV (Type 8)
    - Reply Ingress TLV (Type 5)
    - Reply Egress TLV (Type 6)
- “Auto” value for Lan port “Cable Crossover” attribute
- It changes the default value for the following attributes:
    - Lan port Flow Control: disable
    - Lan Port Master/Slave autonegotiation: auto
    - Lan Port (Electrical) Speed/duplex: auto
    - Lan Port (Optical) Speed/duplex: 1G bit
    - Lan Port Cable Crossover: auto
    - PRBS Test Pattern: 2^15-1
- L2 switch Mac Address table clear

- L2 switch Factory Default set
- *commandLogLastCommandTime* Mib object, tracing the time of the last command (useful to NMS reducing the number of attribute upload)
- It is not possible to disable LACP (LAG) protocol if the Lan port is enabled
- RF loop on ODU ASN: some radio frequencies require that the transmitter of the remote radio is switched off when the RF Loop test is activated .

The above described features require the following equipment MIB upgrade:

```
--------------------------------------------------------------------------
-- CHANGE HISTORY
--------------------------------------------------------------------------
-- Revision:    01.00.07 - 03/12/2010
--             changed default value of leaves ethLanPhySpeedDuplex,
--              ethLanPhyMasterSlaveAutoNegotiation, ethLanPortFlowControl and
--              radioEquipLimPrbsTestPattern
--             -added leaf commandLogLastCommandTime in commandLog group
-- 29.11.2010  -added accessControlListTable
--             -changed the name and added a new enumeration value (disable) to
--              equipLan1MdiMode (equipLan1Mode)
--              equipLan2MdiMode (equipLan2Mode)
--             -added 2 values to leaf equipRequest in equipment group.
--             -added value mdi-auto to leaf ethLanPhyMdiSet
--             -changed userOutput decription
```

5.15 System Version 01.02.01

The current release fixes only some troubles: it doesn't introduce any upgrade.

5.16 System Version 01.02.00

The current release introduces the following changes and upgrades:

- 2x(1+0) STM1 configuration
- Configuration 'IDU only' (no ODU)
- Management of the RF loop on ODU ASN, where possible
- Management of simultaneous presence of ODU ASN and AS-03 in 1+1 hot standby configuration
- Adiacent channel interference reduction
- Management of ALCplus2 node: a logical entity representing a set of minimum 2 and maximum 8 ALCplus2 equipment interconnected by an Ethernet nodal Bus and/or a TDM nodal Bus
- Link Aggregation Control Protocol (LACP) on LAN interfaces
- Trunk radio (proprietary) on ALCplus2 node
- Lan protection (proprietary) on ALCplus2 node
- Local / remote synchronization protocol for commands related to bandwidth allocation
- OAM 802.1ag (y_1731) Fault management part

The above described features require the following equipment MIB upgrade:

```
-------------------------------------------------------------------------
-- Revision:    01.00.06 - 08/09/2010
-- 08.09.2010  -added value rfLoopLimited (4) to enumeration of radioBranchLoop
--             -added value present-limited (2)  to enumeration of
--              radioBranchRFLoopModulePresence
-- 07.09.2010  -added objects radioBranchRFLoopTestResult and
--              radioBranchRFLoopTestPercTime to radioBranchTable
--             -added object radioEquipSynchSetupProtocolEnable to
--              radioEquipTable
-- 29.06.2010  -changed enumeration of ethLanPortId
--             -changed range of values and description of the object
--              ethLanInBandManagementEnable
-- 25.06.2010  -changed default value of ethLanSwitchCommonPriorityQueue
-- 17.06.2010  -changed comment of leaf timingSinkStm1Id
-- 16.06.2010  -changed leaf radioEquipLimNodalBus into radioEquipLimNodalType
--              and added a value of the bitmap
-- 10.06.2010  -changed access of radioEquipRescueModulation from read-write
--              to read-only
-- 27.05.2010  -modified default values of vc4SignalLabelTx and vc12SignalLabelRx
--              from equippedNonSpecific into tugStructure
--             -modified default values of vc12SignalLabelTx and vc12SignalLabelRx
--              from pathUnequipped into asynchronous
-- 25.05.2010  -added value lim-stm1-2xMst to the leaf radioEquipLimStm1Mode
--             -added leaf ethLanPortTrunkAlarm in ethLanPortRecord and relative
--              severity code
-- 05.05.2010  -added leaf radioEquipRescueModulation in radioEquipTable
--             -added alarm leaves radioEquipSetupMismatchAlarm,
--              radioEquipRescueSetupAlarm in radioEquipTable and their
--              relative severity code radioEquipSetupMismatchSeverityCode
--              and radioEquipRescueSetupAlarmSeverityCode
-- 08.04.2010  -added values and changed comment of leaf ethLanPortStpEnable
-- 07.04.2010  -added leaves radioEquipLimNodeMismatchAlarm and
--              radioEquipLimNodeMismatchAlarmCode in radioEquipLimRecord
--             -added leaf radioEquipLimNodeMismatchAlarmSeverityCode of
--              LimNodeMismatchAlarm
-- 29.03.2010  -added leaf ethLanSwitchNodalVlanTable in ethLanSwitchTable
--             -changed name of leaf radioEquipLimMultiplanStpEnable into
--              radioEquipLimNodeElementNumber and modified its meaning
--             -changed name of leaf radioEquipLimNodalId into
--              radioEquipLimNodeElementId
--             -changed the name of radioEquipLimNodalNodes into
--              radioEquipLimNodeTdmElementNumber and the default value
--             -changed the name of leaf radioEquipLimMultiplanStpEnable into
--              radioEquipLimNodeEthElementNumber
-- 22.03.2010  -added values to the leaf equipRemoteElementType
```

5.17 System Version 01.01.04

The current release introduces the following changes and upgrades:

- Improved control on configuration file correctness during download
- Extended PTX attenuation range (for Factory Tests only)

5.18 System Version 01.01.02

The current release introduces the following changes and upgrades:

- Management of MSP without ALS (Automatic Laser Shutdown) configuration
- Managemnet of priority of extra E1

- It is possible to save the RMON "*EtherHistoryTable"* counters into a file that the manager can read using FTP. The counters are also aggregated according to a time interval configured by the operator.
- It introduces ODU firmware download with delayed activation. The firmware is downloaded to the ODU but not activated. The Fw activation is through a reserved command that is done at the expiration of the current 15 minutes.
- It introduces *"Username"* and *"Password"* in FTP operations (Default *"Anonymous"* without password)
- It is possible to perform a Sw/Fw download from a server different from the one sending the command (*softwareRemoteIpAddressDwlServer*)
- It introduces a valid SSM information on E1 trib A and B when configured as T2 signal

5.19 System Version 01.01.01

The current release introduces the following changes and upgrades:

- Fade margin evaluation parameters
- PRBS on expansion board E1 tributaries
- Rapid Spanning Tree Protocol (RSTP)
- Enhanced ACM management in 1+1 configuration

The above described features require the following equipment MIB upgrade:

```
--------------------------------------------------------------------------
-- Revision:    01.00.05 - 15/02/2010
-- 15.02.2010  -added leaf accessControlCheckReadCommunity
-- 11.02.2010  -change default value of leaf radioEquipLimTemperatureAlarm-
--              SeverityCode
--             -change the comment of leaves softwareActionRequest and
--              softwareIpAddressDwlServer in software group
--             -added the leaf radioBranchLoadedRelease in radioBranch group
--             -added the leaf softwareRemoteIpAddressDwlServer in software
--              group
--             -the leaves accessControlFtpUserId, accessControlFtpPassword,
--              accessControlLoginFtpUserId and accessControlLoginFtpPassword
--              in accessControl group
--             -added a value (rmon 8) at leaf pmFTPGroup in pmftp group
--             -added the leaf pmFTPCompressedFile in pmftp group
--
-- Revision:    01.00.04 - 19/01/2010
-- 19.01.2010  -added default value of leaf radioEquipBandwidthAndModulation
--             -changed default value of leaf radioEquipUpperModulation from
--              256QAM to 4QAM
-- 12.01.2010  -added label varbinds in some radioBranch traps.
--
```

5.20 System Version 01.01.00

The current release introduces the following changes and upgrades:

- It supports the following expansion boards:

    - 32xE1 plus 2xSTM1
    - 16xE1 plus 2xSTM1 plus 2xNodal Bus
- STM1 (electrical and optical) , VC4 and VC12 management
- G.829 STM1 Performance Monitoring (B1 and B2-M1)
- G.828 VC12 Performance Monitoring
- TDM Cross Connection Matrix
- Synchronization (TDM and Ethernet ports)
- In-Band management
- Disabling read access (SNMP get) for not logged in users

The above described features require the following equipment MIB upgrade:

```
--------------------------------------------------------------------------------
-- Revision:    01.00.03 - 30/12/2009
-- 30.12.2009  -changed default value of leaf pmG828SMstB2-M1NBBESetSES to
--              be compliance with G829.
--
-- Revision:    01.00.02 - 17/12/2009
-- 17.12.2009  -added leaves radioEquipLimNodalId and radioEquipLimNodalNodes
--              to describe the nodal ring
--             -added leaves radioEquipLimMultiplanStpEnable and
--              radioEquipLimMultiplanStpMode to configure distributed stp on
--              multiplan configuration
--
-- Revision:    01.00.01 - 15/12/2009
-- 15.12.2009  -added leaves ppiE1SyncAlarm and ppiSyncSeverityCode in ppi group
--              to describe failure of ppi re-synchronization
--             -changed default value of
--              radioEquipReducedCapacityAlarmSeverityCode into warning-trapEnable
--
--------------------------------------------------------------------------------
```

6. TROUBLES

6.1 CLOSED TROUBLES

REFERENCE	TROUBLE DESCRIPTION	NOTES
	Random block of ethernet management port (E82101 01.00.02)	Sys. Vers. 01.01.01
	OSI: restart of the remote equipment when the PC address, connected via USB to the local equipment, belongs to the OSI network	Sys. Vers. 01.01.01
DE_SIAE_BEP_2.0_023	Corrupted traffic when ethernet packet size is greater than 1522 bytes	Sys. Vers. 01.01.02
	Selection of 31 to 35 permanent E1 causes a link fail.	Sys. Vers. 01.01.02
	Sporadic timeout on USB connection (mainly during downloads performed using WebLCT).	Sys. Vers. 01.01.02
DE_SIAE_BEP_2.0_022	Possible in-band management block when the traffic is half duplex	Sys. Vers. 01.01.02
	Controller restarts caused by received packets longer than the maximum allowed (observed using OSI stack when modifying the E1 allocation on air capacity).	Sys. Vers. 01.01.04
	Radio-2A G.828 Performance Monitoring malfunction	Sys. Vers. 01.02.01
	The task managing SNTP (Simple Network Time Protocol) doesn't release all the allocated memory	Sys. Vers. 01.02.03
	From the radio port "In band" management doesn't work if the port is configured in trunk mode	Sys. Vers. 01.02.03
	With the OSI stack, if the Access Control (ACL) is enabled , it blocks the access from LCT port when the configured IP address is "Unnumbered"	Sys. Vers. 01.02.03
	Wrong radio branch label management when the label length is 16 chararacters long	Sys. Vers. 01.02.03
	The alarm ODU Fail is not managed properly	Sys. Vers. 01.02.03
	Random block of boot at startup after a switch bench command	E82101 01.00.04 Sys. Vers. 01.02.04
	Sporadic blocks in accessing the modem, causing delayed power on	Sys. Vers. 01.02.04
	The task managing SNTP (Simple Network Time Protocol) doesn't release all the allocated memory	Sys. Vers. 01.03.00
	From the radio port "In band" management doesn't work if the port is configured in trunk mode	Sys. Vers. 01.03.00
	With the OSI stack, if the Access Control (ACL) is	Sys. Vers.

	enabled, it blocks the access from LCT port when the configured IP address is “Unnumbered”	01.03.01
	Wrong radio branch label management when the label length is 16 chararacters long	Sys. Vers. 01.03.01
	The alarm ODU Fail is not managed properly	Sys. Vers. 01.03.01
	Random block of boot at startup after a switch bench command	E82101 01.00.04 Sys. Vers. 01.03.02
	Sporadic blocks in accessing the modem, causing delayed power on	Sys. Vers. 01.03.02
	Fixed management of LOS alarm of LAN management interface when this is disable	Sys. Vers. 01.03.02
	Wrong default configuration of the radio as a result of factory default command	Sys. Vers. 01.03.02
	The controller restart is Ethernet traffic affecting when the “in Band” management is enabled	Sys. Vers. 01.03.03
	The “Mac table per Vlan” feature is not correctly disabled	Sys. Vers. 01.03.03
	Random restart procedure block caused by a wrong read from SD card.	Sys. Vers. 01.03.04
	OSI stack : random wrong memory block release under high packet traffic condition	Sys. Vers. 01.03.04
	Sporadic permanent blocks of SNMP task as a consequence of radio EOC interruption.	Sys. Vers. 01.03.04
	Sporadic permanent block of HTTP task as a consequence of a temporary radio EOC loop.	Sys. Vers. 01.03.04
	Sporadic wrong setting of the ODU TX Power in case of temporary interruption of the IDU/ODU communication channel	Sys. Vers. 01.04.00
	SD card: improved recovery of communication errors between driver and SD card	Sys. Vers. 01.04.01
	Amended policy on access to backup files in presence of the SD card: in case of errors in the SD card, the backup files are read from internal flash memory	Sys. Vers. 01.04.01
	Wrong management of the communication LAN interface status	Sys. Vers. 01.04.01
	Wrong exception management when dealing with synchronisation configuration backups performed by system versions before 1.4.1	Sys. Vers. 01.04.02
	Sporadic missing management of 1000BaseX interface LOS alarm	Sys. Vers. 01.04.02
	In-band management not working properly	Sys. Vers.

	on nodal bus	01.04.02
	LAN Statistics: Total Bytes Received counter is not divided by 1000	Sys. Vers. 01.04.02
	Loss of packets during soft restart in ELP configuration	Sys. Vers. 01.04.02
	SFP GEthernet Optical modules may be not properly recognised	Sys. Vers. 01.04.03
	When a MNGT port is enabled with severity enabled and cable already plugged-in, a false MNGT Port Fail alarm occurs	Sys. Vers. 01.04.03
	OSPF: LSA with entries greater than 256 bytes are discarded	Sys. Vers. 01.04.04
	SSP : under fast fading condition the SSP protocol remains in “rescue state” without external indication	Sys. Vers. 01.04.04
	A restart of IDUs adiacent to a route bridge causes a traffic loop	**Sys. Vers. 01.04.05**
	In case of accidental restart, a traffic loop on RSTP ports is generated	**Sys. Vers. 01.04.05**
	Reading the VC12 path trace (J2) there is an incorrect association between TUG-3 and VC12	**Sys. Vers. 01.04.05**
	Updating of Ethernet statistics requires an SNMP ‘get’ of the relevant table index	**Sys. Vers. 01.04.05**

6.2 OPEN TROUBLES

No Open Troubles

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7. DISTRIBUTED FILES

SIAE CODE	REVISION	FILE TYPE (*)	FILE DESCRIPTION	MOD (**)
E82101	**01.00.05**	**B**	**Equipment controller boot**	**Y**
N90634	**01.04.05**	**A**	**Equipment controller appl.**	**Y**
N90636	01.04.03		FPGA_IDU	
N90674	01.04.03		FPGA_IDU ed 03	
N90641	01.01.00		FPGA_exp16E1	
N90638	01.01.00		FPGA_expNod	
N90668	01.01.00		FPGA_expNod IDU ed. 03	
N90642	01.01.00		FPGA_exp32E1	
N90669	01.01.00		FPGA_exp32E1 IDU ed. 03	
N90640	03.05.37		Modem appl.	
	01.00.07		Conf_IDU	
	01.00.09		Conf_exp	
	01.00.06		Conf_Switch	
	01.00.00		Conf_Phy	
	01.00.00		Conf_STM1_LIU	
	00.04.05		Conf_mdm7M	
	00.04.05		Conf_mdm14M	
	00.04.05		Conf_mdm28M	
	00.04.05		Conf_mdm56M	
	00.04.05		Conf_mdm7M-pk	
	00.04.05		Conf_mdm14M-pk	
	00.04.05		Conf_mdm28M-pk	
	00.04.05		Conf_mdm56M-pk	
	00.04.05		Conf_mdm7M-pkc	
	00.04.05		Conf_mdm14M-pkc	
	00.04.05		Conf_mdm28M-pkc	
	00.04.05		Conf_mdm56M-pkc	

NOTES:

(*) **FILE TYPE**: **B** = BOOT, **A** = APPLICATIVE SW, **B+A** = BOOT+APPLICATIVE SW

(**) **MOD**: 'Y' IF MODIFIED WITH RESPECT TO THE PREVIOUS RELEASE

8. COMPATIBILITY (HW/SW/FW)

This system version of ALCplus2 IDU is compatible with:

- ODU system versions N00053 01.03.00 (or greater) and N00054 01.00.00 (or greater). RF loop on ASN requires N00054 01.00.07 or greater.
- SCT distribution equal or greater than 4.7.0
- WEBLct N96106 1.4.0
- NMS release equal or greater than 6.4.7. Features introduced with ALCplus2 version 1.4.1 require NMS release equal or greater than 6.5.0.

System versions 01.01.0x or greater of ALCplus2 are not compatible with the previous system versions 01.00.xx.

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9. MANUFACTURING DATA

9.1 APPLICABILITY OF CHANGES

☐	CHECK BOX IF NOT APPLICABLE

ALL THE CHANGES SPECIFIED IN THIS DOCUMENT WILL BE APPLIED:

FROM NEXT PRODUCTION		☒
AT THE PRESENT PRODUCTION	**ASSEMBLING**	☐
	TESTING	☐
	WAREHOUSE	☐
IN FIELD		☐

9.2 DISTRIBUTION

☐	CHECK BOX IF NOT APPLICABLE

☒	**CDROM**	***CDROM CODE***	*Not yet defined*		
☐	**FLOPPY**	***FLOPPY CODE***		NUMBER OF FLOPPY DISKS	

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