

Library Changes

CUDB 1.15 (R16A)

LIBRARY REVISION INFORMATION

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1 Introduction

This document shows the changes in the CUDB 1.15 (R16A) library between the following releases:

From Ericsson Centralized User Database (CUDB) 1.14 (R15A)

To Ericsson Centralized User Database (CUDB) 1.15 (R16A)

The following changes are shown:

- Documents added
- Documents changed
- Documents removed

The reason for a change is described, for example, new, updated, or removed features, as well as corrected faults and responses to change requests.

Minor changes, however, such as language corrections, link errors, and editorial improvements are not shown in the tables below unless these are the only corrections in the update.

2 Description of Changes

The structure in this section reflects the structure of the current library.

2.1 Library Front Page

Table 1 Library Front Image

Title	Identity	Change
Library Front Page.		<ul style="list-style-type: none">- Added clarification for "One software track" partially implemented features- Added a link to the "Functions Planned for Coming Releases" Network Impact Report section- Tiles updated



2.2 New and Changed Documents

2.2.1 [Library Front Page]

Table 2 [Library Front Page]/Front Page Document Tiles

Title	Identity	Change
Library Overview	1551-EN/LZN 702 0449 Uen U	
Technical Product Description	221 02-FGC 101 3147 Uen N	Other than editorial changes, this document has been revised as follows: Section 4.2 Protocols: Updated Figure 7 Protocols and Interfaces.
High Availability	7/155 34-HDA 104 03/10 Uen M	Other than editorial changes, this document has been revised as follows: +Service Continuity for Asymmetrical Split Scenarios: Updated description.
Creating New DSG	14/1543-HDA 104 03/10 Uen A	New document Initial release.
CUDB Geographical Redundancy Decrease	21/1553-HDA 104 03/10 Uen B	Other than editorial changes, this document has been revised as follows: +Purpose and Scope: Updated the scope of the document. +Prerequisites: Updated Ericsson personnel information. +Overview: Updated description and Figure 2. +Geographical Redundancy Decrease Procedure: Updated Ericsson personnel information.
Optimized Subtree Searches	20/1553-HDA 104 03/10 Uen C	Editorial changes only.
VNF Lifecycle Management	1/1553-CNL 121 695/10 Uen G	Other than editorial changes, this document has been updated as follows: +Instantiate Configuration Files : Removed vCUDB system-specific files, updated the list of vCUDB VNF files. +Upgrade Configuration Files : Added file for fingerprint generation and updated note with CUDB system configuration file. +Onboard: Added Attention admonition to Step 4.c in Onboard about the effect of uninstalling previous version. +Instantiate vCUDB System : Updated note with scenarion if external network stack needs to be deployed. +Instantiate vCUDB System Prerequisites: Updated vCUDB system prerequisites. +Instantiate vCUDB VNF: Updated image in Step 5 in Instantiate vCUDB VNF. +vCUDB Upgrade Preparation: Updated description. +vCUDB Upgrade Preparation Prerequisites: Updated the list of configuration files per vCUDB system, note regarding licenses and fingerprint files per vCUDB node, and Figure 5 Final Structure Directory for vCUDB Upgrade Preparation. +Workflow Log in GUI: Added Figure 3 Progress Log for External Network Stack Instantiation. +Instantiate Requirements, Upgrade Requirements, Scale-Out Requirements, Scale-out vCUDB System, Scale-out vCUDB System Prerequisites, Scale-out vCUDB VNF Steps, and Workflow Log in GUI: Added sections. + Section 1.5.3.2 Terminate Requirements: Added section. + Section Instantiate vCUDB System prerequisites: Updated section with info on tarring the structure.
Title change "CUDB Application Schema Update"	2/1553-CSH 109 067/10 Uen L	Editorial changes only.



Table 2 [Library Front Page]/Front Page Document Tiles

Title	Identity	Change
CUDB 1.15 Network Impact Report	1/109 48-FGC 101 3147 Uen Y	Other than editorial changes, this document has been revised as follows for the CUDB 1.15 release: <ul style="list-style-type: none"> Section 2.3.1 Changes in VNF Workflows: Added VNF scale-out workflow changes to Table 6 Summary of Changes in VNF Workflows. Section 5.15 Improvements in CUDB 1.15: Added changes in interfaces. Section 6.1 VNF Scale-Out Workflow: Removed section because feature has been delivered and added to Section 2.3.1.2 VNF Scale-Out Workflow. Section 6.1 Removal of LDAP Client Commands: Added new feature to planned functions.
Virtual Infrastructure Requirement	15/1553-HDA 104 03/10 Uen H	Editorial changes only.
LDAP Data Views	15/155 34-HDA 104 03/10 Uen E	Editorial changes only.
LDAP Interwork Description	1/155 19-HDA 104 03/10 Uen M	Other than editorial changes, this document has been revised as follows: +Collision Detection Counter: Updated CDC description. +Option 1 to implement CDC attribute and Option 2 to implement CDC attribute: Updated title. +Possible Scenarios where CDC Is Ineffective: Added section.
System Administrator Guide	2/1543-HDA 104 03/10 Uen T	Other than editorial changes, this document has been revised as follows: + Section Creating a New DSG: Removed procedure.
Commands and Parameters	1/1553-CSH 109 067/10 Uen U	Other than editorial changes, this document has been revised as follows: +cudbApplyConfig and cudbApplyConfig Examples of Use: Command information and examples of use are now available only for Ericsson personnel. +cudbUpdateUserInfo and cudbUpdateUserInfo Examples of Use: Updated requisites in case subtree search optimization is used and examples of use are now available only for Ericsson personnel. +cudbSetPartitionStatus: Updated output of -h --help option.
Performance Guide	4/1553-HDA 104 03/10 Uen G	Other than editorial changes, this document has been revised as follows: +LDAP KPIs and DS KPIs : Updated Table 1 and Table 3 with scale-out policy.
Fault Management	3/1553-CSH 109 067/10 Uen H	Editorial changes only.
Preventive Maintenance	1/1541-CSH 109 067/10 Uen H	Editorial changes only.

2.2.2 Library Overview

Table 3 Library Overview

Title	Identity	Change
CUDB Library Overview	1551-EN/LZN 702 0449 Uen U	



2.2.3 Product Overview

Table 4 Product Overview

Title	Identity	Change
CUDB Technical Product Description	221 02-FGC 101 3147 Uen N	Other than editorial changes, this document has been revised as follows: Section 4.2 Protocols: Updated Figure 7 Protocols and Interfaces.

Table 5 Product Overview/Facility Descriptions

Title	Identity	Change
CUDB High Availability	7/155 34-HDA 104 03/10 Uen M	Other than editorial changes, this document has been revised as follows: +Service Continuity for Asymmetrical Split Scenarios: Updated description.
CUDB LDAP Data Views	15/155 34-HDA 104 03/10 Uen E	Editorial changes only.
CUDB LDAP Schema Management	11/155 34-HDA 104 03/10 Uen D	Editorial changes only.

2.2.4 Site Engineering

Table 6 Site Engineering

Title	Identity	Change
CUDB Deployment Guide	2/1553-HDA 104 03/10 Uen J	Other than editorial changes, this document has been revised as follows: +Example Network with Four Sites and Double Geographical Redundancy: Added description and Figure 12. +Example Network with Six Sites and Triple Geographical Redundancy: Updated description and added Figure 14.
CUDB Virtual Infrastructure Requirements	15/1553-HDA 104 03/10 Uen H	Editorial changes only.

2.2.5 Planning

Table 7 Planning

Title	Identity	Change
CUDB 1.15 Network Impact Report	1/109 48-FGC 101 3147 Uen Y	<p>Other than editorial changes, this document has been revised as follows for the CUDB 1.15 release:</p> <ul style="list-style-type: none">• Section 2.3.1 Changes in VNF Workflows: Added VNF scale-out workflow changes to Table 6 Summary of Changes in VNF Workflows.• Section 5.15 Improvements in CUDB 1.15: Added changes in interfaces.• Section 6.1 VNF Scale-Out Workflow: Removed section because feature has been delivered and added to Section 2.3.1.2 VNF Scale-Out Workflow.• Section 6.1 Removal of LDAP Client Commands: Added new feature to planned functions.



2.2.6 Integration

Table 8 Integration

Title	Identity	Change
CUDB Application Integration Guide	7/1553-HDA 104 03/10 Uen H	Editorial changes only.
CUDB LDAP Data Views Management	11/1553-HDA 104 03/10 Uen F	Editorial changes only.
CUDB Optimized Subtree Searches	20/1553-HDA 104 03/10 Uen C	Editorial changes only.

2.2.7 Operation and Maintenance

Table 9 Operation and Maintenance

Title	Identity	Change
Creating New DSG	14/1543-HDA 104 03/10 Uen A	New document Initial release.
CUDB Geographical Redundancy Decrease	21/1553-HDA 104 03/10 Uen B	Other than editorial changes, this document has been revised as follows: +Purpose and Scope: Updated the scope of the document. +Prerequisites: Updated Ericsson personnel information. +Overview: Updated description and Figure 2. +Geographical Redundancy Decrease Procedure: Updated Ericsson personnel information.
CUDB Node Commands and Parameters	1/1553-CSH 109 067/10 Uen U	Other than editorial changes, this document has been revised as follows: +cudbApplyConfig and cudbApplyConfig Examples of Use: Command information and examples of use are now available only for Ericsson personnel. +cudbUpdateUserInfo and cudbUpdateUserInfo Examples of Use: Updated requisites in case subtree search optimization is used and examples of use are now available only for Ericsson personnel. +cudbSetPartitionStatus: Updated output of -h --help option.
CUDB System Administrator Guide	2/1543-HDA 104 03/10 Uen T	Other than editorial changes, this document has been revised as follows: + Section Creating a New DSG: Removed procedure.
CUDB System Split Partial Recovery Procedure	20/1543-CSH 109 067/10 Uen D	Other than editorial changes, this document has been revised as follows: +Section 1.1 Description, Section 1.2 Prerequisites, Section 2.1 Enabling Provisioning, Section 2.2 Enabling Traffic, Section 3 Recovery Procedure: Updated description.



Table 9 Operation and Maintenance

Title	Identity	Change
CUDB VNF Lifecycle Management	1/1553-CNL 121 695/10 Uen G	Other than editorial changes, this document has been updated as follows: +Instantiate Configuration Files : Removed vCUDb system-specific files, updated the list of vCUDb VNF files. +Upgrade Configuration Files : Added file for fingerprint generation and updated note with CUDB system configuration file. +Onboard: Added Attention admonition to Step 4.c in Onboard about the effect of uninstalling previous version. +Instantiate vCUDb System : Updated note with scenarion if external network stack needs to be deployed. +Instantiate vCUDb System Prerequisites: Updated vCUDb system prerequisites. +Instantiate vCUDb VNF: Updated image in Step 5 in Instantiate vCUDb VNF. +vCUDb Upgrade Preparation: Updated description. +vCUDb Upgrade Preparation Prerequisites: Updated the list of configuration files per vCUDb system, note regarding licenses and fingerprint files per vCUDb node, and Figure 5 Final Structure Directory for vCUDb Upgrade Preparation. +Workflow Log in GUI: Added Figure 3 Progress Log for External Network Stack Instantiation. +Instantiate Requirements, Upgrade Requirements, Scale-Out Requirements, Scale-out vCUDb System, Scale-out vCUDb System Prerequisites, Scale-out vCUDb VNF Steps, and Workflow Log in GUI: Added sections. + Section 1.5.3.2 Terminate Requirements: Added section. + Section Instantiate vCUDb System prerequisites: Updated section with info on tarring the structure.
eVIP Management Guide	1/1553-APR 901 0467/3 Uen L	Updated content from GIT.

Table 10 Operation and Maintenance/Data Management

Title	Identity	Change
CUDB Backup and Restore Procedures	1/1553-CNH 160 6130/10 Uen K	Editorial changes only.
CUDB Consistency Check	17/1553-CSH 109 067/10 Uen C	Editorial changes only.
CUDB Import and Export Procedures	6/1553-HDA 104 03/10 Uen J	Editorial changes only.

Table 11 Operation and Maintenance/Data Management/Schema Management

Title	Identity	Change
CUDB Application Schema Update	2/1553-CSH 109 067/10 Uen L	Editorial changes only.

Table 12 Operation and Maintenance/Data Management/Schema Management/Schema Management Tools

Title	Identity	Change
CUDB LDAP Schema Management Graphical User Interface	1/1553-CNH 160 6161/10 Uen B	Editorial changes only.

Table 13 Operation and Maintenance/Fault Management

Title	Identity	Change
CUDB Node Fault Management Configuration Guide	3/1553-CSH 109 067/10 Uen H	Editorial changes only.



Table 14 Operation and Maintenance/Fault Management/Alarms

Title	Identity	Change
Application Counters, Fault In Subscriber Statistic Application	1/1543-CNH 160 6132/10 Uen B	Editorial changes only.
Control, Automatic Master Election Locked Down	6/1543-CNH 160 6135/10 Uen C	Editorial changes only.
Control, Blackboard Coordination Cluster Down	4/1543-CNH 160 6135/10 Uen B	Editorial changes only.
Control, Blackboard Coordination Server Down	3/1543-CNH 160 6135/10 Uen E	Editorial changes only.
Control, Messaging Service Cluster Down	8/1543-CNH 160 6135/10 Uen B	Editorial changes only.
Control, Messaging Service Server Down	7/1543-CNH 160 6135/10 Uen B	Editorial changes only.
Control, Potential Split Brain Detected	2/1543-CNH 160 6135/10 Uen B	Editorial changes only.
LDAP Front End, High Load in LDAP Processing Layer	7/1543-CNH 160 6161/10 Uen A	This document is based on 7/1543-CNH 160 6161/9 with the following changes: +Section 2 Procedure: Updated procedure with scale-out policy.
LDAP Front End, Processing Capacity Below Minimum	2/1543-CNH 160 6161/10 Uen A	Editorial changes only.
LDAP Front End, Processing Redundancy Lost	1/1543-CNH 160 6161/10 Uen A	Editorial changes only.
LDAP Front End, Server Down	3/1543-CNH 160 6161/10 Uen C	Editorial changes only.
Licensing, Autonomous Mode Activated	6/1543-CNH 160 8039/10 Uen B	Editorial changes only.
Licensing, Capacity Usage Threshold Reached, Warning	3/1543-CNH 160 8039/10 Uen E	Editorial changes only.
Licensing, Key File Fault	8/1543-CNH 160 8039/10 Uen B	Editorial changes only.
Licensing, License Key Not Available, Major	2/1543-CNH 160 8039/10 Uen D	Editorial changes only.
Licensing, License Key Not Available, Minor	5/1543-CNH 160 8039/10 Uen B	Editorial changes only.
Licensing, License Manager not Available	1/1543-CNH 160 8039/10 Uen C	Editorial changes only.
SOAP Notifications, Discarded Notifications	2/1543-CNH 160 7298/10 Uen C	Editorial changes only.
SOAP Notifications, Endpoint Unreachable	1/1543-CNH 160 7298/10 Uen C	Editorial changes only.
Operating System, Disk Usage Too High	5/1543-CSH 109 067/10 Uen C	Editorial changes only.
Operating System, Server Configuration Backup Fault	1/1543-CNH 160 6537/10 Uen D	Editorial changes only.
Preventive Maintenance, Logchecker Found Error(s)	1/1543-CNH 160 8579/10 Uen C	Editorial changes only.
SAF, AMF Component Cleanup Failed	7/1543-CSH 109 067/10 Uen D	Editorial changes only.



Table 14 Operation and Maintenance/Fault Management/Alarms

Title	Identity	Change
SAF, AMF Component Instantiation Failed	9/1543-CSH 109 067/10 Uen D	Editorial changes only.
SAF, AMF SI Unassigned	8/1543-CSH 109 067/10 Uen C	Editorial changes only.
SAF, CLM Cluster Node Unavailable	26/1543-CSH 109 067/10 Uen D	Editorial changes only.
SAF, LOTC Disk Replication Communication Failed	12/1543-CSH 109 067/10 Uen C	Editorial changes only.
SAF, LOTC Disk Replication Consistency Failed	25/1543-CSH 109 067/10 Uen C	Editorial changes only.
SAF, LOTC Ethernet Bonding Failed	11/1543-CSH 109 067/10 Uen A	Editorial changes only.
SAF, LOTC Memory Usage Failed	21/1543-CSH 109 067/10 Uen B	Editorial changes only.
SAF, LOTC Time Synchronization Failed	10/1543-CSH 109 067/10 Uen C	Editorial changes only.
Security, OAM User Exceeded Number Of Failed Logins	13/1543-CSH 109 067/10 Uen C	Editorial changes only.
Security, OAM User Gaining Privilege Failed	14/1543-CSH 109 067/10 Uen C	Editorial changes only.
Security, OAM User Privilege Raise To Root Failed	15/1543-CSH 109 067/10 Uen C	Editorial changes only.
Security, Root Login Failed	18/1543-CSH 109 067/10 Uen D	Editorial changes only.
Storage Engine, Automatic Handling of Network Isolation not Completed for DS	38/1543-CNH 160 6539/10 Uen B	Editorial changes only.
Storage Engine, Automatic Handling of Network Isolation not Completed for PLDB	37/1543-CNH 160 6539/10 Uen B	Editorial changes only.
Storage Engine, Backup Fault In DS	3/1543-CNH 160 6130/10 Uen B	Editorial changes only.
Storage Engine, Backup Fault In PLDB	2/1543-CNH 160 6130/10 Uen B	Editorial changes only.
Storage Engine, Data Inconsistency Between Replicas Found in DS, Major	32/1543-CNH 160 6539/10 Uen D	Editorial changes only.
Storage Engine, Data Inconsistency Between Replicas Found in DS, Minor	30/1543-CNH 160 6539/10 Uen D	Editorial changes only.
Storage Engine, Data Inconsistency Between Replicas Found in PLDB, Major	31/1543-CNH 160 6539/10 Uen B	Editorial changes only.
Storage Engine, Data Inconsistency Between Replicas Found in PLDB, Minor	29/1543-CNH 160 6539/10 Uen B	Editorial changes only.



Table 14 Operation and Maintenance/Fault Management/Alarms

Title	Identity	Change
Storage Engine, Data Inconsistency Between Replicas Repaired, DS	40/1543-CNH 160 6539/10 Uen B	Editorial changes only.
Storage Engine, Data Inconsistency Between Replicas Repaired, PLDB	39/1543-CNH 160 6539/10 Uen B	Editorial changes only.
Storage Engine, Deleted Data Due To Reconciliation	24/1543-CNH 160 7063/10 Uen B	Editorial changes only.
Storage Engine, DS Cluster Down	12/1543-CNH 160 6539/10 Uen B	Editorial changes only.
Storage Engine, DS Cluster In Maintenance Mode	8/1543-CNH 160 6539/10 Uen B	Editorial changes only.
Storage Engine, DS Cluster Node Down	10/1543-CNH 160 6539/10 Uen B	Editorial changes only.
Storage Engine, Execution of Selective Replica Check Failed, DS, Major	34/1543-CNH 160 6539/10 Uen C	Editorial changes only.
Storage Engine, Execution of Selective Replica Check Failed, PLDB, Major	33/1543-CNH 160 6539/10 Uen C	Editorial changes only.
Storage Engine, High Load In DS	23/1543-CNH 160 6539/10 Uen D	Editorial changes only.
Storage Engine, High Load in PLDB	26/1543-CNH 160 6539/10 Uen C	Editorial changes only.
Storage Engine, Memory Usage Too High In DS, Full Threshold Reached	6/1543-CNH 160 6539/10 Uen B	Other than editorial changes, this document has been revised as follows: -Section 2 Procedure: Updated procedure.
Storage Engine, Memory Usage Too High In DS, Warning Threshold Reached	4/1543-CNH 160 6539/10 Uen B	Other than editorial changes, this document has been revised as follows: +Section 2 Procedure: Updated procedure with scale-out policy.
Storage Engine, Memory Usage Too High In PLDB, Major	5/1543-CNH 160 6539/10 Uen A	This document is based on 5/1543-CNH 160 6539/9 with editorial changes only.
Storage Engine, Out Of Memory In DS	2/1543-CNH 160 6539/10 Uen B	Other than editorial changes, this document has been updated as follows: - Procedure: Added reference to Scale-out policy. - Section 2 Procedure: Updated procedure.
Storage Engine, PLDB Cluster In Maintenance Mode	7/1543-CNH 160 6539/10 Uen B	Editorial changes only.
Storage Engine, Replication Stopped Working in PLDB	2/1543-CNH 160 8579/10 Uen A	This document is based on 2/1543-CNH 160 8579/9 with editorial changes only.
Storage Engine, Unrepaired Data Inconsistency Between Replicas, DS, Major	46/1543-CNH 160 6539/10 Uen B	Editorial changes only.
Storage Engine, Unrepaired Data Inconsistency Between Replicas, PLDB, Major	45/1543-CNH 160 6539/10 Uen B	Editorial changes only.



Table 15 Operation and Maintenance/Fault Management/Preventive Maintenance

Title	Identity	Change
CUDB Logchecker	12/1553-CSH 109 067/10 Uen E	Editorial changes only.
CUDB Node Preventive Maintenance	1/1541-CSH 109 067/10 Uen H	Editorial changes only.

Table 16 Operation and Maintenance/Logging Management

Title	Identity	Change
CUDB Node Logging Events	4/1553-CSH 109 067/10 Uen N	Other than editorial changes, this document has been revised as follows: +Section 2.5.4.5.5 Security: Updated log table.

Table 17 Operation and Maintenance/Performance Management

Title	Identity	Change
CUDB Performance Guide	4/1553-HDA 104 03/10 Uen G	Other than editorial changes, this document has been revised as follows: +LDAP KPIs and DS KPIs : Updated Table 1 and Table 3 with scale-out policy.

Table 18 Operation and Maintenance/Security Management

Title	Identity	Change
CUDB Security and Privacy Management	8/1553-HDA 104 03/10 Uen L	Other than editorial changes, this document has been revised as follows: –Configuring SSH Encryption: Added section.
Configure SSH Algorithms	7/1543-CRA 119 2163 Uen A	New document Quality checks run. Ready for SEC 2.2 release.
Configure TLS Ciphers	1/1543-CRA 119 2163 Uen A	New document

Table 19 Operation and Maintenance/HW Management

Title	Identity	Change
Server Platform, Blade Replacement	4/1543-CSH 109 067/10 Uen N	Other than editorial changes, this document has been revised as follows: +Editing the LDE installation.conf File in Case of GEP7L Hardware: Updated procedure.

2.2.8 Interface

Table 20 Interface

Title	Identity	Change
CUDB LDAP Interwork Description	1/155 19-HDA 104 03/10 Uen M	Other than editorial changes, this document has been revised as follows: +Collision Detection Counter: Updated CDC description. +Option 1 to implement CDC attribute and Option 2 to implement CDC attribute: Updated title. +Possible Scenarios where CDC Is Ineffective: Added section.



2.3 Removed Documents

No removed documents.