

Library Changes

Call Session Control Function

LIBRARY REVISION INFORMATION

Copyright

© Ericsson AB 2018. All rights reserved. No part of this material may be reproduced in any form without the written permission of the copyright owner.

Disclaimer

The contents of these documents are subject to revision without notice due to continued progress in methodology, design and manufacturing. Ericsson shall have no liability for any error or damage of any kind resulting from the use of these documents.



Contents

1	Introduction	1
2	Description of Changes	1
2.1	New and Changed Documents	1
2.1.1	Library Overview	1
2.1.2	Product Overview	2
2.1.3	Planning	2
2.1.4	Installation	2
2.1.5	Operation and Maintenance	3
2.1.6	Interface	9
2.2	Removed Documents	10





1 Introduction

This document shows the changes in the Virtual Call Session Control Function (vCSCF) library between the following releases:

From vCSCF 1.5, EN/LZN 765 0209 R7A

To vCSCF 1.6, EN/LZN 765 0209 R8A

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 New and Changed Documents

2.1.1 Library Overview

Table 1 Library Overview

Title	Identity	Change
CSCF Library Overview	1551-EN/LZN 765 0209 Uen L	General updates for vCSCF 1.6.
Glossary of Terms and Acronyms	1/0033-AVA 901 30/2 Uen H	Added HDS=Ericsson Hyperscale Datacenter System. Updated for VNF-LCM and VNF.
Library Changes	109 45-EN/LZN 765 0209-8 Uen A	New document



2.1.2 Product Overview

Table 2 Product Overview

Title	Identity	Change
CSCF Technical Description	221 02-AVA 901 30/2 Uen J	Updated sections SIP Overload Control, Failover and Fallback, and SIP Monitoring
Free and Open Source Software	0962-AVA 901 30/2 Uen F	Added CSCF 3PP: ecdsa-0.13-4.1; Jinja2-2.7.3; MarkupSafe 0.18; ncclient -0.4.6; paramiko 1.16; pycrypto 2.6 Changed iPX version from 1.0.0 - Commit20161216 to 1.0.0. Deleted AIT 3PPs from section 1 and section 2 because the AIT is no longer used. (Since all its 3PPs are also used by other components, only TFTpy is deleted from section 2).
Virtual CSCF Infrastructure Requirements	3/1056-AVA 901 30/2 Uen H	Section 3: Updated for static routing without BFD. Section 4: Added a notification to explain how disk distribution.

Table 3 Product Overview/Statement of Compliance/SS7 Signalling

Title	Identity	Change
MAP ETSI Addendum for Ericsson Specific Standard to Statement of Compliance	1/174 02-CAA 201 45 Uen J1	New document
SS7 CAF Statement of Compliance Overview	15/174 02-AVA 901 30/2 Uen A	New document

2.1.3 Planning

Table 4 Planning

Title	Identity	Change
CSCF VNF Network Connectivity Overview	3/1551-CRA 119 1740 Uen T	Sections 2.5.2 and 2.6.5: Added "Static Routing without BFD". Added section 3.2 Static Routing without BFD Configuration Sections 3.2.1 and 3.2.2: Changed Remote Gateway Value to 192.168.216.252 Table 10-37: Changed "tenant_id" to "tenant_id"
vCSCF Network Impact Report from 1.5 to 1.6.0	2/109 48-AVA 901 30/2-8 Uen B	New document

2.1.4 Installation

Table 5 Installation

Title	Identity	Change
vCSCF Upgrade Information from 1.5 to 1.6.0	1/153 72-CXP 903 5589/1-1 Uen A	New document



2.1.5 Operation and Maintenance

Table 6 Operation and Maintenance

Title	Identity	Change
Ericsson Command-Line Interface User Guide	15/1553-AVA 901 30/2 Uen A	New document

Table 7 Operation and Maintenance/Fault Management

Title	Identity	Change
Handling Alarms	6/1551-CAA 901 2587/7 Uen A	New document New document structure. New title.
Configure SNMP Master Agent with engineld	43/1543-CAA 901 2587/7 Uen A	New document

Table 8 Operation and Maintenance/Fault Management/Alarms

Title	Identity	Change
CSCF Alarm List	1/006 51-AVA 901 30/2 Uen G	Updated with CBA SF 1.4 information. Structural updates. Updated vDicos, Diameter Link Congestion alarm slogan. Removed LOTC Ethernet Bonding Alarm OPI.
CSCF List of Alarms and Attributes	2/006 51-AVA 901 30/2 Uen J	This document is revised for vCSCF 1.6.0.
A Fallback Operation will soon be started	59/1543-CAA 901 2624/4 Uen A	New document New document based on 98/1543-APA 901 44/1.
COM SA, AMF Component Cleanup Failed	60/1543-CAA 901 2624/4 Uen A	New document New document based on 42/1543-APA 901 44/1.
COM SA, AMF Component Instantiation Failed	61/1543-CAA 901 2624/4 Uen A	New document New document based on 43/1543-APA 901 44/1.
COM SA, AMF SI Unassigned	62/1543-CAA 901 2624/4 Uen A	New document
COM SA, CLM Cluster Node Unavailable	63/1543-CAA 901 2624/4 Uen A	New document New document based on 45/1543-APA 901 44/1.
COM SA, MDF Detected Model Error	65/1543-CAA 901 2624/4 Uen A	New document New document based on 142/1543-APA 901 44/1.
COM SA, Proxy Status of a Component Changed to Unproxied	64/1543-CAA 901 2624/4 Uen A	New document New document based on 46/1543-APA 901 44/1.
CSCF, DNS Server Unavailable	49/1543-AVA 901 30/2 Uen C	Editorial changes.
File Management, Max Size in FileGroup Exceeded	5/1543-CAA 901 2587/7 Uen E	Updated section: 2 Procedure Structural changes.

**Table 8** *Operation and Maintenance/Fault Management/Alarms*

Title	Identity	Change
File Management, Number of Files in FileGroup Exceeded	3/1543-CAA 901 2587/7 Uen E	Updated section: 2 Procedure 2.1 Handling Alarm File Management, Number of Files in FileGroup Exceeded Structural changes.
License Management, Autonomous Mode Activated	1/1543-APR 901 0503/6-2 Uen A	New document
License Management, Emergency Unlock Reset Key Required	3/1543-APR 901 0503/6-2 Uen A	New document
License Management, Key File Fault	4/1543-APR 901 0503/6-2 Uen A	New document
LOTC Disk Replication Communication	7/1543-ANA 901 39/4 Uen A	New document New document based on 137/1543-APA 901 44/1. Updated Section 2.1, added new step 3, 6, 7.
LOTC Disk Replication Consistency	6/1543-ANA 901 39/4 Uen B	New document
LOTC Disk Usage	3/1543-ANA 901 39/4 Uen C	New document
LOTC Memory Usage	5/1543-ANA 901 39/4 Uen B	New document
LOTC Time Synchronization	1/1543-ANA 901 39/4 Uen F	New document
vDicos, Diameter Link Congestion	145/1543-APA 901 44/1 Uen H	Title changed.

Table 9 *Operation and Maintenance/Fault Management/Troubleshooting Information*

Title	Identity	Change
CSCF Network Tracing	1/1553-AVA 901 30/2 Uen E	Editorial changes. Updated link to File Management.
CSCF SIP Hexadecimal Error Codes	2/1551-AVA 901 30/2 Uen H	This document is revised for vCSCF 1.6.0.
CSCF Troubleshooting Guideline	1/154 51-AVA 901 30/2 Uen H	Added Check SSH Key for Authentication. Updated link to Fault Management.

Table 10 *Operation and Maintenance/Fault Management/Data Collection*

Title	Identity	Change
Data Collection Guideline for CSCF	28/1543-AVA 901 30/2 Uen E	Replaced the link to File Management to the link to Handling Files.



Table 11 *Operation and Maintenance/Configuration Management*

Title	Identity	Change
CSCF Configuration Management	3/1553-AVA 901 30/2 Uen J	Updated in Configure Failover Timer per FQDN. Updated in 3.22.1Configure P-CSCF Restoration Procedure. Section 3.32.2.1 Configure Reacting Role Priorities for SIP Overload Control: Updated two configurable priorities to 16. Section 3.32.1.1: Replaced section title Configure the Overload Cluster Resource Level with Configure the Threshold of Activating SIP Overload Control Reporting. Added Section 3.33 Configure Monitoring Nodes with SIP OPTIONS.
CSCF User Data Output Guideline	11/1553-AVA 901 30/2 Uen C	Section 4: Added a notification about semi-colon. Updated examples with the latest vCSCF version.
CSCF VNF Lifecycle Management	13/1553-AVA 901 30/2 Uen E	Section 4: Added troubleshooting information about Authentication failed. Added sections Upgrade VNF and Heal Upgrade; updated screendumps and procedures in section 3.1, 3.3, 3.4, 3.5.
System Management	2/1551-APA 901 44/1 Uen H	Structural changes. Content rewritten.

Table 12 *Operation and Maintenance/Configuration Management/Configuration Management Parameters*

Title	Identity	Change
vCSCF 1.6 Master Parameter Value List for Performance Management	15/190 73-AVA 901 30/2 Uen F	New document
vCSCF 1.6 Master Parameter Value List for Netconf	16/190 73-AVA 901 30/2 Uen F	New document

Table 13 *Operation and Maintenance/Configuration Management/Diameter Management*

Title	Identity	Change
Diameter Management	15/1551-APA 901 44/1 Uen F	Structural changes.

Table 14 *Operation and Maintenance/Configuration Management/File Management*

Title	Identity	Change
Handling Files	4/1551-AVA 901 30/2 Uen F	Updated for changes in CBA SF 1.4 for vCSCF 1.6.
Fetch File in Logical File System	45/1543-AVA 901 30/2 Uen E	Updated link from File Management to Handling Files. Aligned to CBA SF 1.4 layout of the document.
Delete File in Logical File System	19/1543-CAA 901 2587/7 Uen D	Updated sections: 2 Procedure 2.1 Delete File in Logical File System Structural changes. Editorial update.

Table 14 *Operation and Maintenance/Configuration Management/File Management*

Title	Identity	Change
List File Groups and File Information in Logical File System	20/1543-CAA 901 2587/7 Uen C	Editorial update.
Configure Preventive Maintenance Policy Deleting Files in Logical File System	21/1543-CAA 901 2587/7 Uen C	Editorial update.
Configure Preventive Maintenance Policy Reporting Alarms for Logical File System	22/1543-CAA 901 2587/7 Uen C	Editorial update.

Table 15 *Operation and Maintenance/Configuration Management/Transport Management*

Title	Identity	Change
eVIP Management Guide	1/1553-APR 901 0467/3 Uen J	
Infrastructure Adaptation	1/1551-ANA 901 39/4 Uen A	New document New document
Virtual IP Addressing	2/1551-APR 901 0467/3 Uen A	New document New document
Change Maximum Transmission Unit Size	9/1543-ANA 901 39/4 Uen A	New document New document based on 194/1543-APA 901 44/1.
Change NTP Address	8/1543-ANA 901 39/4 Uen A	New document New document based on 221/1543-APA 901 44/1.
Add Virtual IP Address	5/1543-APR 901 0467/3 Uen A	New document New document based on 187/1543-APA 901 44/1.
Add Named Virtual IP Address	6/1543-APR 901 0467/3 Uen A	New document New document based on 2/1543-APA 901 44/2.
Add Virtual IP Equivalent Source Address	7/1543-APR 901 0467/3 Uen A	New document New document based on 186/1543-APA 901 44/1.
Add Flow Policy	8/1543-APR 901 0467/3 Uen A	New document New document based on 188/1543-APA 901 44/1.
Change NTP Server Address	8/1543-ANA 901 39/4 Uen A	New document New document based on 221/1543-APA 901 44/1.

Table 16 *Operation and Maintenance/Performance Management/Area Performance Management*

Title	Identity	Change
SS7 Performance Measurements	2/155 19-ANA 901 37 Uen B	New document
Performance Management	11/1551-APA 901 44/1 Uen J	Structural Changes.



Table 17 *Operation and Maintenance/Scaling Management*

Title	Identity	Change
CSCF Scaling Management	14/1553-AVA 901 30/2 Uen B	Section 5: Deleted the notification point about an OpenStack limitation. Section 5: Updated all stack-update commands.

Table 18 *Operation and Maintenance/Security Management*

Title	Identity	Change
Audit Information	5/1553-APA 901 44/1 Uen C	Structural changes.
Security Management for ECLI, NETCONF, and File Transfer Protocols	7/1551-CAA 901 2587/7 Uen A	New document Structural changes Updated sections: 1.4 SSH Authentication 1.5 TLS Authentication
CSCF Hardening Guideline	5/1553-AVA 901 30/2 Uen G	Updated link to Fault Management.
CSCF Security User Guide	12/1553-AVA 901 30/2 Uen F	Section 3.1.2: Added Self and System Read Only roles. Updated in section 6 Privacy.
SSH and TLS Protocol Management	1/1551-CRA 119 2163 Uen A	New document Security Management Description 1551-CRA 119 2163 Rev. D is replaced with document SSH and TLS Protocol Management 4/1551-APA 901 44/2 PB6 from CBA SF CPI. DITA preparation done for the base version PB6. Document number changed to SEC number 1/1551-CRA 119 2163.
User Management	3/1551-AVA 901 30/2 Uen H	Updated with information from CBA SF 1.4.

Table 19 *Operation and Maintenance/Security Management/Certificate Management*

Title	Identity	Change
Certificate Management	1551-CRA 119 1933 Uen D	DITA prepared.
Install or Renew Node Credential by CSR	11/1543-CRA 119 1933 Uen H	Added information about chain certificates to description.
Install or Renew Node Credential by PKCS 12	13/1543-CRA 119 1933 Uen E	Added information about chain certificates to description.
Install Node Credential Online	23/1543-CRA 119 1933 Uen D	Added information about chain certificates to description.
Delete Enrollment Authority	27/1543-CRA 119 1933 Uen D	Added information on removing reservedBy references.
Delete Enrollment Server Group	28/1543-CRA 119 1933 Uen D	Changed for SEC 2.5 release.
Delete Trusted Certificate	36/1543-CRA 119 1933 Uen D	Changes for reservedByCategory deprecation.

Table 20 *Operation and Maintenance/Security Management/LDAP Authentication Management*

Title	Identity	Change
Configure Ericsson Filter Version	13/1543-CRA 119 2164 Uen B	New document

**Table 20** *Operation and Maintenance/Security Management/LDAP Authentication Management*

Title	Identity	Change
Configure Referral Chasing	9/1543-CRA 119 2164 Uen B	New document
Configure Role Aliases for RBAC	14/1543-CRA 119 2164 Uen B	New document

Table 21 *Operation and Maintenance/Software Management*

Title	Identity	Change
Software Management	2/1551-APR 901 0444/4 Uen F	Structural and editorial changes
Software Inventory Management	1/1551-APR 901 0444/4 Uen C	Structural changes.
Delete Upgrade Package	48/1543-CAA 901 2624/4 Uen D	Update section 2.1 based on TR HW24432.

Table 22 *Operation and Maintenance/Software Management/Backup and Restore*

Title	Identity	Change
System Backup and Restore	2/1551-CAA 901 2624/4 Uen G	Initial DITA preparations; structural and editorial changes. Removed MOM section.
Import Backup	27/1543-CAA 901 2624/4 Uen G	Clarification in section 1 Introduction note.
Set Automatic Export of Scheduled Backups	30/1543-CAA 901 2624/4 Uen C	Updated section 2.1 according to TR HW24854.

Table 23 *Operation and Maintenance/Software Management/License Management*

Title	Identity	Change
License Management	1/1551-APR 901 0503/6-1 Uen A	New document
CSCF License Management	5/1551-AVA 901 30/2 Uen C	Include Configure SSL Connection to NeLS in section 3.
View License Information	7/1543-APR 901 0503/6 Uen A	New document
Activate Emergency Unlock Mode	8/1543-APR 901 0503/6 Uen A	New document
Deactivate Emergency Unlock Mode	9/1543-APR 901 0503/6 Uen A	New document
Configure Connection to NeLS	11/1543-APR 901 0503/6 Uen A	New document

Table 24 *Operation and Maintenance/Health Check*

Title	Identity	Change
Check CSCF Key Performance Indicators	46/1543-AVA 901 30/2 Uen C	Replaced the link to File Management to the link to Handling Files.
CSCF Health Check	29/1543-AVA 901 30/2 Uen H	Updated link to File Management. Updated Section 5.4 Verify Controller Status; Replaced product number from CXP 902 3140/2 to CXP 903 4345/1.



Table 25 *Operation and Maintenance/Managed Object Management/Managed Object Model*

Title	Identity	Change
Managed Object Model (MOM)	190 89-LZN 765 0209 Uen H	Updated for vCSCF 1.6.

2.1.6 Interface

Table 26 *Interface*

Title	Identity	Change
Ericsson Alarm Interface	8/155 19-CAA 901 2587/7 Uen A	New document
Ericsson Command-Line Interface	4/155 19-CAA 901 2587/7 Uen E	Updated sections: 2.1 CLI Modes 2.4.6 Interpretation of CLI Commands Updated section: 3 CLI Commands 3.1 Summary of CLI Commands 3.13.1 Filter Command Added section: 3.13.5 Format Command
LDAP-Based Authentication and Authorization Interface	1/155 19-CRA 119 2164 Uen F	New chapter nr. 7 added from the LDAP Authentication Management Description, which is removed from SEC Library. Chapter 5.1 LDAP Authentication Behavior updated with information about uid case sensitivity handling.
Performance Management Report File Format	1/155 19-CAA 901 2587/7 Uen C	Updated section: 3 Supported XML Elements and Attributes.

Table 27 *Interface/Alarm SNMP MIBs*

Title	Identity	Change
ERICSSON-ALARM-MIB	5/196 03-CXC 172 7549 Uen E	
ERICSSON-ALARM-TC-MIB	3/196 03-CXC 172 7549 Uen E	
ERICSSON-TC-MIB	2/196 03-CXC 172 7549 Uen D	

Table 28 *Interface/Events*

Title	Identity	Change
AlarmListRebuilt	2/1551-CAA 901 2587/7 Uen C	Structural changes.
eVIP, Configuration Fault	19/1551-APA 901 44/1 Uen C	Structural changes.
HeartBeat	1/1551-CAA 901 2587/7 Uen C	Structural changes.

*Table 29 Interface/NETCONF XML Schemas*

Title	Identity	Change
NETCONF XML Schemas	190 89-LZN 708 0601 Uen H	

2.2 Removed Documents

Table 30 Documents Removed from Library

Title	Identity	Comment
Library Changes	109 45-EN/LZN 765 0209-7 Uen A	
SS7 CAF Statement of Compliance Overview	2/174 02-ANA 901 37 Uen D	
vCSCF Network Impact Report from 1.2.1 to 1.5	6/109 48-AVA 901 30/2-7 Uen A	
vCSCF Network Impact Report from 1.3 to 1.5	4/109 48-AVA 901 30/2-7 Uen A	
vCSCF Network Impact Report from 1.4 to 1.5	2/109 48-AVA 901 30/2-7 Uen A	
vCSCF Upgrade Information from 1.2.1 to 1.5	1/153 72-CXR 101 2039/1-6 Uen A	
vCSCF Upgrade Information from 1.3 to 1.5	2/153 72-CXR 101 2039/1-6 Uen A	
vCSCF Upgrade Information from 1.4 to 1.5	3/153 72-CXR 101 2039/1-6 Uen A	
Ericsson Command-Line Interface User Guide	6/1553-CAA 901 2587/7 Uen B	
Fault Management	3/1551-CAA 901 2587/7 Uen C	
A Fallback Operation will soon be started	98/1543-APA 901 44/1 Uen F	
COM SA, AMF Component Cleanup Failed	42/1543-APA 901 44/1 Uen E	
COM SA, AMF Component Instantiation Failed	43/1543-APA 901 44/1 Uen F	
COM SA, AMF SI Unassigned	44/1543-APA 901 44/1 Uen F	
COM SA, CLM Cluster Node Unavailable	45/1543-APA 901 44/1 Uen F	
COM SA, MDF Detected Model Error	142/1543-APA 901 44/1 Uen E	
COM SA, Proxy Status of a Component Changed to Unproxied	46/1543-APA 901 44/1 Uen E	
License Management, Autonomous Mode Activated	5/1543-APA 901 44/2 Uen C	



Table 30 Documents Removed from Library

Title	Identity	Comment
License Management, Emergency Unlock Reset Key Required	7/1543-APA 901 44/2 Uen C	
License Management, Key File Fault	6/1543-APA 901 44/2 Uen C	
LOTIC Disk Replication Communication	137/1543-APA 901 44/1 Uen G	
LOTIC Disk Replication Consistency	130/1543-APA 901 44/1 Uen G	
LOTIC Disk Usage	131/1543-APA 901 44/1 Uen H	
LOTIC Ethernet Bonding	132/1543-APA 901 44/1 Uen H	
LOTIC Memory Usage	133/1543-APA 901 44/1 Uen H	
LOTIC Time Synchronization	134/1543-APA 901 44/1 Uen J	
AppTrace User Guide	1/1553-CXP 904 0373/4 Uen C	
vCSCF 1.5 Master Parameter Value List for Performance Management	13/190 73-AVA 901 30/2 Uen F	
vCSCF 1.5 Master Parameter Value List for Netconf	14/190 73-AVA 901 30/2 Uen H	
Virtual IP Address Management	17/1551-APA 901 44/1 Uen A2	
Change Maximum Transmission Unit Size	194/1543-APA 901 44/1 Uen B	
Add Virtual IP Address	187/1543-APA 901 44/1 Uen D	
Add Named Virtual IP Address	2/1543-APA 901 44/2 Uen B	
Add Virtual IP Equivalent Source Address	186/1543-APA 901 44/1 Uen D	
Add Flow Policy	188/1543-APA 901 44/1 Uen C	
Change NTP Server Address	221/1543-APA 901 44/1 Uen B	
SSH and TLS Protocol Management	4/1551-APA 901 44/2 Uen A	
License Management	2/1551-APA 901 44/2 Uen C	
Update License Information	27/1543-APA 901 44/1 Uen E	
View License Information	141/1543-APA 901 44/1 Uen E	
Activate Emergency Unlock Mode	21/1543-APA 901 44/1 Uen F	
Deactivate Emergency Unlock Mode	22/1543-APA 901 44/1 Uen E	
Replenish Emergency Unlock Activations	25/1543-APA 901 44/1 Uen F	
Configure Connection to NeLS	8/1543-APA 901 44/2 Uen C	