

Library Changes from vMRF 1.5.0 to vMRF 1.6.0

Virtual Multimedia Resource Function

LIBRARY REVISION INFORMATION

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1 Introduction

This document shows the changes in the vMRF library between the following releases:

From vMRF 1.5.0 EN/LZN 745 0023 R6A
To vMRF 1.6.0 EN/LZN 745 0023 R7A

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
Glossary of Terms and Acronyms	0033-AXM 101 04/1 Uen T	Added the following terms in section Glossary: VIM (Virtual Infrastructure Manager), NFVO (NFV Orchestrator), CEE (Cloud Execution Environment), EO (Ericsson Orchestrator), and SRT.
Trademark Information	1/006 51-APA 901 44/1 Uen G	Structural changes.



2.1.2 Product Overview

Table 2 Product Overview

Title	Identity	Change
vMRF Overview	1/155 13-AXM 101 04/1 Uen G	Added new sections Support for Watchdog Feature and VMware Tools.
vMRF Infrastructure Requirements	1/1056-AXM 101 04/1 Uen Z	Mitaka replaced Kilo as the earliest supported OpenStack version. Kilo-related information is removed in section Other Requirements.

Table 3 Product Overview/Statement of Compliance

Title	Identity	Change
Virtual MRF High Level Statement of Compliance	1/174 02-AXM 101 04/1 Uen G	Editorial changes only.

2.1.3 Planning

Table 4 Planning

Title	Identity	Change
vMRF Network Impact Report	10948-FGC 101 3314 Uen H	Updated for vMRF 1.6.0.

2.1.4 Installation

Table 5 Installation

Title	Identity	Change
VNF Life Cycle Management	17/1553-AXM 101 04/1 Uen K	<p>Added steps 1-4 in Prepare VNF Deployment Parameters on how to add value for parameter <code>mrf_config</code> in the <code>env.yaml</code> file. Updated Introduction with NFVO, Or-Vnfm interface information. Added in Introduction that the only workflows supported for NFVO, Or-Vnfm interface are instantiation and termination. Updated procedure in Onboarding. Added in Onboarding that it is not mandatory to follow the naming convention for the directory for VNF-specific files.</p> <p>Moved installing RPM bundle form procedures to Prerequisites. Onboard the VNF Package on VNF-LCM: Added in note on <code>ssh-keygen -t rsa</code> that the command must be used as <code>jboss_user</code> and added command example. Added in note on Step 1 that the <code>VNFType_VNFVersion</code> directory must be granted read access for <code>jboss_user</code> and execute permission on its subdirectories. Prepare VNF Deployment Parameters: Updated Base64-encoded string handling in steps 3-4. Onboard the VNF Package on VNF-LCM: added steps to rename library created in Step 1 to the <code>vnfdId</code>. Corrected library name in Prepare VNF Deployment Parameters. Step for renaming <code>.yaml</code> files is removed. Command corrected in Packing step in section "Prepare VNF Deployment Parameters". Note added that if no previous backup file is available, then the example file can be used from the software delivery package. Updated vIMS workflows minimum version to 1.11.1 in Prerequisites. Moved Prepare VNF Deployment Parameters to section 2. Scale-in and Scale-out procedures are merged into section "Scale VNF". Removed step on renaming <code>vmrf.yaml</code> to <code>main.yaml</code> in Onboard the VNF Package on VNF-LCM.</p>
VNF Life Cycle Management for VMware	18/1553-AXM 101 04/1 Uen C	New document



Table 5 Installation

Title	Identity	Change
Deployment Guide for Cloud Execution Environment (CEE)	4/1531-AXM 101 04/1 Uen AC	<p>Corrected location of "example_environment.yaml" and "scaling_group.yaml" in "Download and Extract vMRF Software Delivery Package" and in "Create Flavor". Removed extra steps for extracting the relevant folder from the software delivery package. Editorial changes.</p> <p>Mitaka replaced Kilo as the earliest supported Openstack version. Kilo-related information is removed in section "Scale Out to Full VNF Size". Openstack Mitaka mentions are removed in Scale-out Procedure, as there are no process differences between versions from Mitaka onwards. Added information on Watchdog in Create Flavor. Stack name maximum length specified in "Instantiate and Check with One VM". Python script name and output example is corrected in "Instantiate and Check with One VM". Parameters for instantiating commands are corrected.</p>
Deployment Guide for OpenStack	1/1531-AXM 101 04/1 Uen AC	<p>Corrected location of "example_environment.yaml" and "scaling_group.yaml" in "Download and Extract vMRF Software Delivery Package" and in "Create Flavor". Removed extra steps for extracting the relevant folder from the software delivery package.</p> <p>Mitaka replaced Kilo as the earliest supported Openstack version. Kilo-related information is removed in section "Scale Out to Full VNF Size". Openstack Mitaka mentions are removed in Scale-out Procedure, as there are no process differences between versions from Mitaka onwards. Added Watchdog-related information in Create Flavor. Stack name maximum length specified in "Instantiate and Check vMRF with One VM". Python script name and output example is corrected in "Instantiate and Check vMRF with One VM". Parameters for instantiating commands are corrected.</p>
Deployment Guide for VMware vSphere	2/1531-AXM 101 04/1 Uen Y	Step 5 rephrased in "Deploy the OVF Template". "Subnet mask" and "netmask" rephrased as "Subnet mask length" in sections "Deploy the OVF Template" and "Create Network Topology".
Deployment Guide for VMware vCloud Director	5/1531-AXM 101 04/1 Uen C	New document
Upgrade Guide	7/1553-AXM 101 04/1 Uen S	<p>Editorial changes only.</p> <p>New prerequisites defined in vMRF In-Service Upgrade.</p>

2.1.5 Initial Configuration

Table 6 Initial Configuration

Title	Identity	Change
Initial Configuration Guide	9/1553-AXM 101 04/1 Uen U	Editorial changes only.

2.1.6 Operation and Maintenance

Table 7 Operation and Maintenance

Title	Identity	Change
CLI Commands	10/1553-AXM 101 04/1-V2 Uen X	Updated "verify_vmrf_cluster_status.py" with additional output example.



Table 7 Operation and Maintenance

Title	Identity	Change
Ericsson Command-Line Interface	4/155 19-CAA 901 2587/7 Uen G	New document
Managed Object Model User Guide	7/1553-CAA 901 2587/7 Uen B	New document

Table 8 Operation and Maintenance/vMRF Managed Object Model (MOM)

Title	Identity	Change
Managed Object Model for vMRF	190 89-4/AXM 101 04/1 Uen L	

Table 9 Operation and Maintenance/Fault Management

Title	Identity	Change
Check Alarm Status	13/1543-CAA 901 2587/7 Uen C	New document
Change Heartbeat Interval	32/1543-CAA 901 2587/7 Uen B	Structural changes.

Table 10 Operation and Maintenance/Fault Management/Alarms

Title	Identity	Change
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.
License Management, Autonomous Mode Activated	5/1543-AXM 101 04/1 Uen C	Editorial changes only.
License Management, Emergency Unlock Reset Key Required	13/1543-AXM 101 04/1 Uen C	Editorial changes only.
MRF H.248 Link Unavailable	2/1543-AXM 101 04/1 Uen M	Editorial changes only.
MRF Next Hop Router Unreachable	18/1543-AXM 101 04/1 Uen D	Editorial changes only.



Table 11 Operation and Maintenance/Fault Management/Events

Title	Identity	Change
Event List	5/1551-AXM 101 04/1 Uen D	Changed Event Type to Other (1) and Probable Cause to Indeterminate (0) for MRF H.248 Link Recovered after Temporary Outage in table Event Attributes.

Table 12 Operation and Maintenance/Fault Management/Troubleshooting Information

Title	Identity	Change
vMRF Troubleshooting Guideline	6/1553-AXM 101 04/1 Uen T	Added command soxi -V4 on verifying that only fmt and data WAV chunks are present in the wav file in Cannot Play Announcement. Added new subsection VNF Restarts Unexpectedly in Deployment Related Trouble Cases.

Table 13 Operation and Maintenance/Configuration Management

Title	Identity	Change
Configuration Management	5/1553-AXM 101 04/1 Uen AB	New topic added: Configure Performance Management XML File Compression. Mitaka replaced Kilo as the earliest supported Openstack version. Kilo-related information is removed in section Scale-out Procedure. Openstack Mitaka mentions are removed in Scale-out Procedure, as there are no process differences between versions from Mitaka onwards.

Table 14 Operation and Maintenance/Security Management

Title	Identity	Change
User Management Authentication	1/1551-APR 901 0539/2 Uen A	New document New document.
User Management Authorization	8/1551-CAA 901 2587/7 Uen B	New document

Table 15 Operation and Maintenance/SW Management

Title	Identity	Change
vMRF Backup and Restore Guideline	13/1553-AXM 101 04/1 Uen T	Correction in command in Step 3 in section Restore without Re-Deployment. Added new step on changing configuration file permissions to 660 in section Restore without Re-Deployment. Restore without Re-Deployment: Added that root (sudo) privileges are needed for the procedure. Moved configuration file privilege changes to Step 3. Removed Step 2. Added new Step 4 on disabling the persistent back-end service. Step for deleting the persistent configuration database is expanded with a note on possible system message in section "Restore without Re-Deployment".

Table 16 Operation and Maintenance/SW Management/License Management

Title	Identity	Change
License Management	1/1553-AXM 101 04/1 Uen C	Editorial changes only.
Update NeLS Connection	1/1543-AXM 101 04/1 Uen C	Editorial changes only.



2.1.7 Emergency

Table 17 Emergency

Title	Identity	Change
Emergency Recovery Procedure for vMRF	16/1553-AXM 101 04/1 Uen G	Editorial changes only.

2.1.8 Interface

Table 18 Interface

Title	Identity	Change
Ericsson NETCONF Interface	2/155 19-CAA 901 2587/7 Uen F	New document

Table 19 Interface/Events

Title	Identity	Change
HeartBeat	1/1551-CAA 901 2587/7 Uen C	Structural changes.

Table 20 Interface/NETCONF XML Schemas

Title	Identity	Change
COMNotification.xsd	190 89-LZN7080601/1 Uen H	
ComNotification.xsd	190 89-LZN7080601/3 Uen H	
Netconf.xsd	190 89-LZN7080601/2 Uen H	

2.2 Removed Documents

Table 21 Documents Removed from Library

Title	Identity	Comment
Ericsson Command-Line Interface	1/155 19-APA 901 44/1 Uen F	
Managed Object Model User Guide	2/1553-APA 901 44/1 Uen E	
Check Alarm Status	31/1543-APA 901 44/1 Uen E	
COM SA, AMF Component Cleanup Failed	42/1543-APA 901 44/1 Uen D	
COM SA, AMF Component Instantiation Failed	43/1543-APA 901 44/1 Uen E	
COM SA, MDF Detected Model Error	142/1543-APA 901 44/1 Uen D	
COM SA, Proxy Status of a Component Changed to Unproxied	46/1543-APA 901 44/1 Uen D	
Ericsson NETCONF Interface	4/155 19-APA 901 44/1 Uen D	