

Library Changes from vMRF 1.1 to vMRF 1.3

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 1.1 EN/LZN 745 0023 R2A
To vMRF 1.3 EN/LZN 745 0023 R4A

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 J	

**Table 1** Library Overview

Title	Identity	Change
How to Get Started with Active Library Explorer	1/1553-CRAH 301 1061 Uen H	Migrated to DITA CMS. Added trademarklist.
Free and Open Source Software	0962-AXM 101 04/1 Uen L	Added POCO C++ Libraries, Basic Edition version 1.7.3, and Boost C++ Library version 1.60. Uplifted the following FOSS: OpenSAF 5.0 to 5.1, json-cpp 0.6.0 to 0.6.0-rc2. Removed JSON for Modern C++. Ittng-ust, Ittng-tools, and GlusterFS uplift added. Added new FOSS libSRTP and POCO C++ library version 1.7.6. Updated FOSS versions in section License Information and License Texts. Editorial changes. libSRTP uplift to 2.0.0.

2.1.2 Product Overview

Table 2 Product Overview

Title	Identity	Change
vMRF Overview	1/155 13-AXM 101 04/1 Uen D	Added new section Address Resolution and Fetching the Next Hop Address. Added Packet Loss Concealment in subsection Pulse Code Modulation Service (PCM). Added EVS in the list of supported audio codecs in Function Overview and Audio Conferencing. Added new subsection Enhanced Voice Services (EVS) in Media Stream Processing Services. Added note in section Function Overview on EVS capacity license and NeLS. Added new section Audio Codec Selection Principles.
vMRF Infrastructure Requirements	1/1056-AXM 101 04/1 Uen U	Updated L3 redundancy requirement text in Network Requirements and Number of vCPUs in Compute Requirements. Updated in Network Requirements that IPv4 media, O&M, and signaling network next hop addresses are fetched from a DHCP server. Added in Path supervision that ICMP is required for router advertisement for IPv6. Added DHCP server support requirement and recommendation on redundancy in Network Requirements. Updated in Storage Requirements that a VM uses storage for booting and for data, and the boot disk must be local. Editorial changes only. Editorial changes only. Updated Compute host in section Compute 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 D	Support for EVS codec added. Editorial changes only.



2.1.3 Planning

Table 4 Planning

Title	Identity	Change
vMRF Network Impact Report	10948-FGC 101 3314 Uen D	Updated for vMRF 1.2. Updated for vMRF 1.3.

2.1.4 Installation

Table 5 Installation

Title	Identity	Change
VNF Life Cycle Management	17/1553-AXM 101 04/1 Uen C	New document
Deployment Guide for Cloud Execution Environment (CEE)	4/1531-AXM 101 04/1 Uen V	Updated network reserved for future use to network for regulatory services in Create Network Topology. Added note on example yaml files in the following sections: Download and Extract Software Delivery Package, Create Network Topology, and Create Subnets. Updated mrvs_ prefixes to mrf_ in Prepare Deployment Parameters. Updated in Prepare Deployment Parameters that the mrf_config parameter does not contain the path but the file content. Editorial changes only. Removed subsection Disable ARP Spoofing Protection on all Compute Hosts in the vMRF Availability Zone. Added Prerequisite in Instantiate and Check vMRF with One VM. Added Reference List.
Deployment Guide for OpenStack	1/1531-AXM 101 04/1 Uen V	Added note on example yaml files in the following sections: Download and Extract Software Delivery Package, Create Network Topology, and Create Subnets. Updated mrvs_ prefixes to mrf_ in Prepare Deployment Parameters. Updated in Prepare Deployment Parameters that the mrf_config parameter does not contain the path but the file content. Editorial changes only. Added Prerequisite in Instantiate and Check vMRF with One VM. Added Reference List.
Upgrade Guide	7/1553-AXM 101 04/1 Uen K	Restructured document. Added new section Network-Redundant Upgrade. Renamed Manual Upgrade Process to In-Service Upgrade. Added graceful lock option through MTAS configuration in the following sections: Lock and Scale-in VMs, Commit to Using the New Version, and Remove Rollback Procedure. Added prerequisite in Deploy the New Version.



2.1.5 Initial Configuration

Table 6 Initial Configuration

Title	Identity	Change
Initial Configuration Guide	9/1553-AXM 101 04/1 Uen L	Editorial changes only. Added MrfH248Control MO attribute in Initial Configuration Data for the vMRF Application. Added announcement-related attributes in Initial Configuration Data for the vMRF Application. Added the following subsections: Create a Variable Announcement and Modify the Default Language Code under new section Announcement Configuration. Moved section Create and Import Configuration Data into section Importing Configuration Data from NETCONF Template. Added new step 1 and 2 in Configure vMRF Signaling. Added the following new parameters in Table SCTP Profile Attributes: enablePathMtuDiscovery, maxSctpPduSize.

2.1.6 Operation and Maintenance

Table 7 Operation and Maintenance

Title	Identity	Change
CLI Commands	10/1553-AXM 101 04/1-V2 Uen M	Added new subsection for license_info. Added new subsection smms-counters.

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 E	

Table 9 Operation and Maintenance/Fault Management/Alarms

Title	Identity	Change
MRF H.248 Link Unavailable	2/1543-AXM 101 04/1 Uen K	Updates in Remote Endpoint Configuration Fault. Editorial changes only.

Table 10 Operation and Maintenance/Fault Management/Troubleshooting Information

Title	Identity	Change
vMRF Troubleshooting Guideline	6/1553-AXM 101 04/1 Uen L	Editorial changes only. Added graceful lock option through MTAS configuration for vMRF in Manual Recovery Flow. Added Reference List.



Table 11 *Operation and Maintenance/Configuration Management*

Title	Identity	Change
Configuration Management	5/1553-AXM 101 04/1 Uen S	<p>Added note in Scale-in Procedure in section Manual Scaling in OpenStack. Added note in Scale-in Procedure in section Manual Scaling in VMware.</p> <p>Added note in section Manual Scaling. Added scale-out commands for both Kilo-based and Mitaka-based cloud services in Scale-out Procedure.</p> <p>Editorial changes only.</p> <p>Updated Modify the Default Language Code and moved it to section 4.2. Added new section EVS Configuration and subsections. Added new section Reference List. Added new prerequisite in Scale-out Procedure.</p>

Table 12 *Operation and Maintenance/Security Management*

Title	Identity	Change
vMRF Security Management	14/1553-AXM 101 04/1 Uen L	Updated the following GLDs in O&M Administrator Access Control: mrf-op, mrf-ts, mrf-msr.

2.2 Removed Documents

No documents removed.