

# Library Changes from vMRF 1.1 to vMRF 1.2

## Virtual Multimedia Resource Function

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### 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 1.2 EN/LZN 745 0023 R3A

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 H	Added SMMS and VNF-LCM in Glossary.
Free and Open Source Software	0962-AXM 101 04/1 Uen J	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.

### 2.1.2 Product Overview

Table 2 Product Overview

Title	Identity	Change
vMRF Overview	1/155 13-AXM 101 04/1 Uen C	Added new section Address Resolution and Fetching the Next Hop Address. Added Packet Loss Concealment in subsection Pulse Code Modulation Service (PCM).
vMRF Infrastructure Requirements	1/1056-AXM 101 04/1 Uen N	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.

### 2.1.3 Planning

Table 3 Planning

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

### 2.1.4 Installation

Table 4 Installation

Title	Identity	Change
VNF Life Cycle Management	17/1553-AXM 101 04/1 Uen A	New document

**Table 4** *Installation*

Title	Identity	Change
Deployment Guide for Cloud Execution Environment (CEE)	4/1531-AXM 101 04/1 Uen T	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.
Deployment Guide for OpenStack	1/1531-AXM 101 04/1 Uen T	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.
Upgrade Guide	7/1553-AXM 101 04/1 Uen J	Restructured document. Added new section Network-Redundant Upgrade. Renamed Manual Upgrade Process to In-Service Upgrade.

## 2.1.5 Operation and Maintenance

**Table 5** *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 6** *Operation and Maintenance/vMRF Managed Object Model (MOM)*

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

**Table 7** *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.

**Table 8** *Operation and Maintenance/Fault Management/Troubleshooting Information*

Title	Identity	Change
vMRF Troubleshooting Guideline	6/1553-AXM 101 04/1 Uen K	Editorial changes only.

*Table 9 Operation and Maintenance/Configuration Management*

<b>Title</b>	<b>Identity</b>	<b>Change</b>
VNF Life Cycle Management	17/1553-AXM 101 04/1 Uen A	<i>New document</i>
Configuration Management	5/1553-AXM 101 04/1 Uen M	Added note in Scale-in Procedure in section Manual Scaling in OpenStack.  Added note in section Manual Scaling. Added scale-out commands for both Kilo-based and Mitaka-based cloud services in Scale-out Procedure.

## 2.2 Removed Documents

No documents removed.