

Library Changes from vMRF 1.3 to vMRF 1.4

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 1.3 EN/LZN 745 0023 R4A
To vMRF 1.4 EN/LZN 745 0023 R5A

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 L	Added the following terms in section Glossary: UUID, MPD, MSCML, MSML, EVRC, EVRC-A, EVRC-B, EVRC-NW, and NetAnn. Editorial changes.
Free and Open Source Software	0962-AXM 101 04/1 Uen M	libsrtp 2.0.0 -> 2.1.0, OpenSAF 5.1 -> 5.17.07. New licenses: libdnet 1.12, libmspack 0.5alpha, open-vm-tools 10.1.10.



2.1.2 Product Overview

Table 2 Product Overview

Title	Identity	Change
vMRF Overview	1/155 13-AXM 101 04/1 Uen E	Updated image and description in subsection vMRF Architecture. Added new section Limitations and Differences. Added configuration backups in the list of stored elements in Shared Storage. Added new subsection Tone Sender Service in Media Stream Processing Services. Added new section Automatic Backup and Restore.
vMRF Infrastructure Requirements	1/1056-AXM 101 04/1 Uen V	Updated IP address allocation row in section Network 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 E	Updated standard versions in 3GPP Standards; added new standard RFC 5707 in IETF Standards. Updated Compliance and Comment for the following standards: E.182 (03/1998), G.100.1, G.664 (03/2003), G.711 (11/1988), G.719 (06/2008), G.722 (11/1988), G.729 (01/2007), H.248.1 (09/2005), H.264 (01/2012), Q.23 (11/1988), and Q.24 (11/1988), 22.153(V14.1.0), 23.218 (V14.0.0), 23.228 (V14.5.0), 23.333 (14.2.0), 24.147 (V14.1.0), 24.229 (V14.5.0), 26.071 (V14.0.0), 26.073 (V14.0.0), 26.074 (V14.0.0), 26.090 (V14.0.0), 26.091 (V14.0.0), 26.092 (V14.0.0), 26.093 (V14.0.0), 26.094 (V14.0.0), 26.101 (V14.0.0), 26.103 (V14.0.0), 26.114 (V14.5.0), 26.171 (V14.0.0), 26.173 (V14.0.0), 26.174 (V14.0.0), 26.190 (V14.0.0), 26.191 (V14.0.0), 26.192 (V14.0.0), 26.193 (V14.0.0), 26.194 (V14.0.0), 26.194 (V14.0.0), 26.201 (V14.0.0), 26.235 (V12.0.0), 26.441 (V14.0.0), 26.442 (V14.0.0), 26.444 (V14.0.0), 26.445 (V14.0.0), 26.446 (V14.0.0), 26.447 (V14.0.0), 26.448 (V14.0.0), 26.449 (V14.0.0), 26.450 (V14.0.0), 26.451 (V14.0.0), 29.333 (V14.1.0), 32.401 (V14.1.0), 32.409 (V14.1.0), 46.051 (V14.0.0), 46.054 (V14.0.0), 46.060 (V14.0.0), 46.061 (V14.0.0), 46.062 (V14.0.0), 46.081 (V14.0.0), 46.082 (V14.0.0), 3GPP2 C.S0014-D (V3.0), RFC 768, RFC 791, RFC 792, RFC 793, RFC 826, RFC 894, RFC 1042, RFC 1122, RFC 1305, RFC 1868, RFC 2046, RFC 2131, RFC 2460, RFC 2464, RFC 2616, RFC 2976, RFC 3261, RFC 3311, RFC 3389, RFC 3412, RFC 3413, RFC 3414, RFC 3416, RFC 3417, RFC 3550, RFC 3551, RFC 3558, RFC 3584, RFC 3826, RFC 3986, RFC 4028, RFC 4240, RFC 4291, RFC 4566, RFC 4582, RFC 4583, RFC 4585, RFC 4588, RFC 4733, RFC 4788, RFC 4855, RFC 4867, RFC 4960, RFC 5022, RFC 5104, RFC 5404, RFC 5952, RFC 6184, RFC 6241, RFC 6386, RFC 6716, RFC 6884, https://tools.ietf.org/html/draft-ietf-secsh-filexfer-02 , IEEE 802.2 (1998 Edition), PRD IR.92, v7.1, and PRD IR.94, v6.0.

2.1.3 Planning

Table 4 Planning

Title	Identity	Change
vMRF Network Impact Report	10948-FGC 101 3314 Uen E	



2.1.4 Installation

Table 5 Installation

Title	Identity	Change
VNF Life Cycle Management	17/1553-AXM 101 04/1 Uen E	<p>Updated required LAF image version in section Prerequisites. Added new subsection Heal VNF. Added that the configurations directory needs write permission for jboss_user in Step 3. Updated image Select Workflow in workflow procedures. Updated Instantiate VNF image and description with VNF instance description and new steps in Instantiate VNF. Also added new steps for selecting VIM, tenant, providing zone and region details and VNF parameters for ENM. Upgrade VNF: Updated image Select VNF to Upgrade and procedure with automatic rollback timer field. Updated payload_scaling_in_list to payload_instance_count in Prerequisites. Scale-in VNF: Added note in last step. Removed details of folder lcmScript in Onboarding.</p> <p>Added new prerequisite cloud environment preparation for VNF deployment in Prerequisites. Added uploading the VNF image as a prerequisite in Onboarding.</p>
Deployment Guide for Cloud Execution Environment (CEE)	4/1531-AXM 101 04/1 Uen X	<p>Updated steps 3 and 4 in Check vMRF Status. Updated stack update procedure in Scale Out to Full VNF Size. Added note in Step 2, Scale Out to Full VNF Size. Added ntp_server parameter to 6.5 Prepare Deployment Parameters. Updated the following sections: In vMRF Deployment Process for CEE: Removed step d., on preparing initial configuration. Moved step f. to the last step position. Added information in note, step e. Updated image map. Rearranged the last four topics of deployment. Added rows ConfigImport and LM in command printout in Instantiate and Check vMRF with One VM. Editorial changes.</p>
Deployment Guide for OpenStack	1/1531-AXM 101 04/1 Uen X	<p>Updated steps 3 and 4 in Check vMRF Status. Removed the following subsections: Prepare Initial Configuration Data (Optional), Prepare the Initial Configuration Tar File, and Edit the Initial Configuration XML File. Updated printout example in Check vMRF Status. Removed Step 3, on importing initial configuration in Prepare Deployment Parameters. Updated stack update procedure in Scale Out to Full VNF Size. Added note in Step 2, Scale Out to Full VNF Size. Added container folder of DHCP and manual IP address configuration deployment yaml files in Download and Extract Software Delivery Package. Updated manual IP configuration to "platform automatic IP address configuration" in Download and Extract vMRF Software Delivery Package. Added ntp_server parameter to Prepare Deployment parameters. Updated the following sections: In vMRF Deployment Process for OpenStack: Removed step d., on preparing initial configuration. Moved step f. to the last step position. Added information in note, step e. Updated image maps. Rearranged the last four topics of deployment.</p>

2.1.5 Initial Configuration

Table 6 Initial Configuration

Title	Identity	Change
Initial Configuration Guide	9/1553-AXM 101 04/1 Uen M	<p>Moved subsection Manual Configuration to position 3.1. Updated Create and Import Configuration Data. Updated Manual Configuration. Added the following sections: Emergency and Priority Call Handling, Configuration of Priority Pool. Added information on example configuration for ECLI provided in software delivery package in Manual Configuration.</p>



2.1.6 Operation and Maintenance

Table 7 Operation and Maintenance

Title	Identity	Change
CLI Commands	10/1553-AXM 101 04/1-V2 Uen S	Updated command description and added printout in verify_vmrfl_cluster_status.py. Added table in verify_vmrfl_node_status.py. Editorial changes only.

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 G	

Table 9 Operation and Maintenance/Fault Management/Troubleshooting Information

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

Table 10 Operation and Maintenance/Configuration Management

Title	Identity	Change
Configuration Management	5/1553-AXM 101 04/1 Uen V	Added note in subsection Scale-out Procedure. Added new section Modifying Tone Parameters. Editorial changes only.

Table 11 Operation and Maintenance/Configuration Management/File Management

Title	Identity	Change
File Management	6/1551-AXM 101 04/1 Uen A	New document New document based on File Management (6/1551-APA 901 44/1 Uen G).

Table 12 Operation and Maintenance/Performance Management

Title	Identity	Change
Performance Indicators	2/1551-AXM 101 04/1 Uen J	Added info on timestamp in PM files to Overview section.

Table 13 Operation and Maintenance/Security Management

Title	Identity	Change
vMRF Security Management	14/1553-AXM 101 04/1 Uen N	Editorial changes only. Updated journalctl SYSLOG_FACILITY=4 - sshd access logs to journalctl _COMM=sshd access logs and journalctl SYSLOG_FACILITY=17 - NBI audit logs to journalctl _COMM=com - NBI audit logs in Recommended Periodic Operations.



2.1.7 Emergency

Table 14 Emergency

Title	Identity	Change
Emergency Recovery Procedure for vMRF	16/1553-AXM 101 04/1 Uen E	Removed need to cluster run node verification script and added info on list of faulty VMs in subsection Verify VNF Status.

2.2 Removed Documents

Table 15 Documents Removed from Library

Title	Identity	Comment
File Management	6/1551-APA 901 44/1 Uen G	