

2017Q2-Liaison on MEF 38-SOAM FM YANG



Title	Revision to MEF 38 - SOAM FM YANG Module
Date	February 2017
Location	USA
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From	MEF Forum

MEF Forum is considering a revision (MEF 38.1) to published specification - MEF 38 Service OAM Fault Management YANG Module (see <https://www.mef.net/resources/technical-specifications>). Initial effort has been on identifying errata (see attached) such as missing content and compilation errors. However, additional effort is planned between now and April 2017 to complete project proposal to revise MEF 38. MEF is expected to review and approve the project proposal at the April 2017 Quarterly Meeting.

Given that IEEE 802.1 and ITU-T SG15 co-developed SOAM FM tools and have ongoing work to develop various related information/data models, MEF Forum would appreciate input from IEEE 802.1 and ITU-T SG15 towards scope for project to revise MEF 38 as well as collaborating on developing the updated Fault Management YANG Module.

In addition, for information, MEF is also investigating required changes to published specification - MEF 39 Service OAM Performance Monitoring YANG Module.

MEF Forum will provide an update once the proposed work have been approved as new MEF Projects. Additionally, to facilitate collaboration, MEF now plans to have draft modules available in Github.

MEF meets next on April 24-27 in Frankfurt Germany.

Attachments: Fault Management: [MEF 38 - Errata and Gaps](#)

MEF 38 - Errata and Gaps

This page captures errata and gaps in published MEF 38 specification for SOAM FM YANG module (<http://www.mef.net/resources/technical-specifications/download?id=29&fileid=file1>)

 The following errata and gaps have not yet been verified, i.e. these are items MEF Members have reported. MEF has yet to evaluate them and agree that they are problems as well as determine how they should be fixed.

Page Number	Section	Error or Gap	T/E
6	Sec 6 - SOAM YANG CFM OVERVIEW	How are MIPs retrieved?	T
33	Sec 10 - SOAM CFM YANG MODULE	Missing "config false" for "status" attribute of default-md-level	T
65	Sec 11 - SOAM FM YANG MODULE	The augment of /cfm:maintenance-domain/cfm:maintenance-association/cfm:maintenance-association-end-point/cfm:loopback contains several leaves that are intended to be r/w, but the container being augmented has "config:false" so they are all R/O	T
66	Sec 11 - SOAM FM YANG MODULE	There are several must statements in the loopback augment that refer to "../data-tlv", but there is no such node	T
49	Sec 10 - SOAM CFM YANG MODULE	The RPCs in both modules have MD ID, MA ID and MEP ID as string, string and mep-id-type respectively, but these should be leafrefs into the main data tree since it isn't possible to perform an RPC for a MEP that doesn't exist.	T
45-47	Sec 10 - SOAM CFM YANG MODULE	All of the enums under the linktrace reply list (e.g. ltr-relay) will have values assigned automatically starting from zero; however, the definitions of these enums in 802.1q all start at 1.	T
41	Sec 10 - SOAM CFM YANG MODULE	lowest-fault-priority-defect should have a default value matching 802.1q - see 12.14.7.1.3.k	T

	<p>Sec 10 - SOAM CFM YANG MODULE</p>	<p>Transmit LTM Egress Identifier which is used by Linktrace is missing. This is the equivalent of dot1agCfmMepTransmitLtmEgressIdentifier.</p>	<p>T</p>
	<p>General</p>	<p>Alignment with IETF LIME WG draft on Generic Model</p>	<p>T</p>

The following errors should be addressed in the corresponding YANG module.

mef-cfm.yang:274: warning: RFC 6087: 4.10,4.12: statement "bit" should have a "description" substatement
mef-cfm.yang:275: warning: RFC 6087: 4.10,4.12: statement "bit" should have a "description" substatement
mef-cfm.yang:276: warning: RFC 6087: 4.10,4.12: statement "bit" should have a "description" substatement
mef-cfm.yang:277: warning: RFC 6087: 4.10,4.12: statement "bit" should have a "description" substatement
mef-cfm.yang:278: warning: RFC 6087: 4.10,4.12: statement "bit" should have a "description" substatement
mef-cfm.yang:332: warning: RFC 6087: 4.10,4.12: statement "bit" should have a "description" substatement
mef-cfm.yang:333: warning: RFC 6087: 4.10,4.12: statement "bit" should have a "description" substatement
mef-cfm.yang:334: warning: RFC 6087: 4.10,4.12: statement "bit" should have a "description" substatement
mef-cfm.yang:335: warning: RFC 6087: 4.10,4.12: statement "bit" should have a "description" substatement
mef-cfm.yang:416: error: RFC 6087: 4.12: statement "choice" must have a "description" substatement
mef-cfm.yang:500: warning: RFC 6087: 4.10,4.12: statement "bit" should have a "description" substatement
mef-cfm.yang:581: error: RFC 6087: 4.12: statement "choice" must have a "description" substatement
mef-cfm.yang:742: error: RFC 6087: 4.12: statement "choice" must have a "description" substatement
mef-cfm.yang:749: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:752: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:763: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:766: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:777: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:780: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:783: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:794: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:797: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:800: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:811: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:814: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:825: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:828: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:839: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:842: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:845: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:856: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:859: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:862: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:873: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:876: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:887: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:890: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:901: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:904: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:907: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:918: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:921: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:924: error: RFC 6087: 4.12: statement "leaf" must have a "description" substatement
mef-cfm.yang:1034: error: RFC 6087: 4.9: top-level node default-md-levels must not be mandatory
mef-cfm.yang:1046: error: keyword "key" not in canonical order, (See RFC 6020, Section 12)
mef-cfm.yang:1667: error: keyword "config" not in canonical order, (See RFC 6020, Section 12)
mef-cfm.yang:1718: error: keyword "config" not in canonical order, (See RFC 6020, Section 12)
mef-cfm.yang:1975: error: keyword "config" not in canonical order, (See RFC 6020, Section 12)
mef-cfm.yang:1983: error: keyword "key" not in canonical order, (See RFC 6020, Section 12)