

2017Q2-Liaison on MEF 39-SOAM PM YANG



Title	Revision to MEF 39 - SOAM PM YANG Module
Date	February 2017
Location	USA
Contacts	liaisons@mef.net Nan Chen, President MEF (nan@mef.net) Raghu Ranganathan, TOC Co-Chair (rraghu@ciena.com) Shahar Steiff, TOC Co-Chair (ssteiff@pccwglobal.com)
To	ITU-T SG 15 <ul style="list-style-type: none">▪ tsbsg15@itu.int▪ Steve Trowbridge <Steve.Trowbridge@nokia.com> (Chair, SG15)
Cc	Kevin Vachon, COO MEF (kevin@mef.net) IEEE 802.1 <ul style="list-style-type: none">▪ Chair, Glenn Parsons (glenn.parsons@ericsson.com)▪ Stephen Haddock (shaddock@stanfordalumni.org)▪ Marc Holness (mholness@ciena.com) BBF <ul style="list-style-type: none">• TC Chair, Michael Fargano, Technical Committee Chair, Michael.Fargano@CenturyLink.com• Common YANG Project Stream, William Lupton, Common YANG Project Stream, wlupton@broadband-forum.org• Common YANG Project Stream, Michael Shaffer, Common YANG Project Stream, michael.shaffer@nokia.com IETF <ul style="list-style-type: none">• LIME WG statements@ietf.org
From	MEF Forum

MEF Forum is considering a revision (MEF 39.1) to published specification - MEF 39 Service OAM Performance Monitoring 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 39. MEF is expected to review and approve the project proposal at the April 2017 Quarterly Meeting.

Given that ITU-T SG15 developed SOAM PM tools and has ongoing work to develop various related information/data models, MEF Forum would appreciate input from ITU-T SG15 towards scope for project to revise MEF 39 as well as collaborating on developing the updated PM YANG Module in support of MEF Services.

In addition, for information, MEF is also investigating required changes to published specification - MEF 38 Service OAM Fault Management 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 39 - Errata and Gaps](#)

MEF 39 - Errata and Gaps

This page captures errata and gaps in published MEF 39 specification for SOAM PM YANG module (<https://www.mef.net/resources/technical-specifications/download?id=28&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	Comments
64	Sec 8 - SOAM PM YANG MODULE	Missing MD, MA and MEP inputs from 'create-loss-measurement' rpc	T	<p>Add the following in the input of the rpc:</p> <pre> leaf maintenance-domain-id { type string; description "The ID of a Maintenance Domain of the MEP on which a delay-measurement session will be started"; } leaf maintenance-association-id { type string; description "The ID of a Maintenance Association of the MEP on which a delay-measurement session will be started"; } leaf mep-id { type mep-id-type; description "The ID of the MEP on which a delay-measurement session will be started"; } </pre> <p>Actually these should use leafrefs, not raw strings - you can only start a PM session for a MEP that actually exists. Same is true for all the RPCs in the module.</p>
66	Sec 8 - SOAM PM YANG MODULE	Missing MD, MA and MEP inputs from 'create-delay-measurement' rpc	T	Same as above
57	Sec 8 - SOAM PM YANG MODULE	Everything in the module is R/O, PM sessions can only be created via RPCs	T	Pro-active sessions should be able to be configured.

66	Sec 8 - S OAM PM YANG MODULE	There is no way to specify the bin boundaries for DM bins.	T	This is missing from the create-session RPC, along with several other parameters (e.g. the source MAC address for 1DM-receive sessions). More use of groupings and clear separation of config vs oper leaves would help avoid these kinds of issues.
55	Sec 8 - S OAM PM YANG MODULE	delay-measurement-bins-group contains 3 lists, each indexed by type and number	T	Should either be three lists each indexed only by number (and delete the type leaf), or a single list indexed by type and number.
57	Sec 8 - S OAM PM YANG MODULE	The key for the list of LM sessions is a uint32 called "session-id" but the key for the list of DM sessions is a string called "id". Furthermore the output of the RPC to create a DM session is a uint32!	T	Make this consistent - all sessions should be indexed by strings. There are also several other inconsistencies between the LM and DM tables. Actually, it would probably be best if the LM and DM tables were combined - many of the leaves etc are the same. "When" statements can be used to ensure nodes that are only applicable in one case or the other only appear when relevant. Alternatively they should at least use a lot more groupings to ensure consistency.
23	Sec 8 - S OAM PM YANG MODULE	There is no need for a separate Availability measurement interval, and corresponding separate availability stats tables - these should be folded into the stats tables for all the other metrics	T	This was based on a misunderstanding of MEF 35, which was clarified by the addition of an appendix in MEF 35.1
25	Sec 8 - S OAM PM YANG MODULE	The treatment of TCAs is not consistent with MEF 35.1	T	MEF 39 predates MEF 35.0.1, but it should be aligned in a revision.
19	Sec 8 - S OAM PM YANG MODULE	1SL is not covered	T	MEF 39 predates MEF 35.0.2.
66	Sec 8 - S OAM PM YANG MODULE	create-delay-measurement RPC should have source-mac-address in the input parameters. This leaf is currently only present in the DM table.	T	Fix is probably to move it within delay-measurement-configuration-group