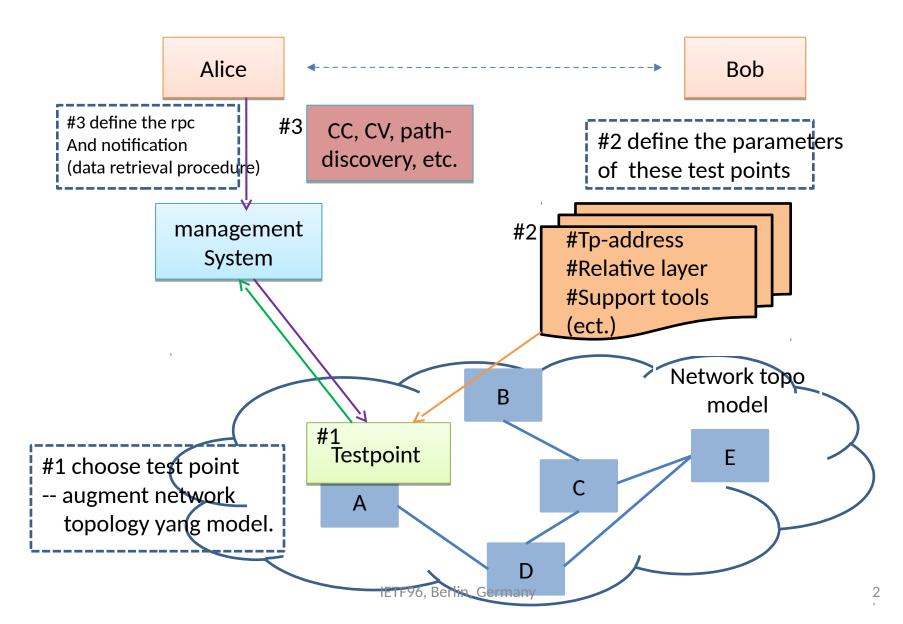
Connectionless OAM yang model

Deepak Kumar Qin WU Zitao Wang Reshad Rahman Srihari Raghavan

Model design



Connection-less OAM model

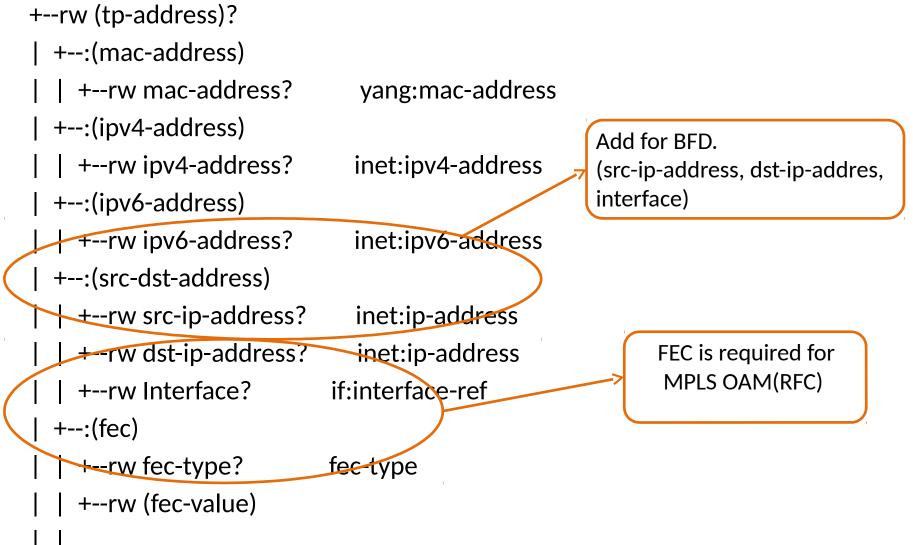
- TP Address
 - Generic Representation of Test Point Address
- Tools
 - Describe Toolset for Fault detection and Isolation
- Oam Layers
 - In future, it can provide way to relate Oam Test Points for Connection Less
 - Default Level O(same layer), so if relationship is not known it's not required t o be implemented
 - Provide OAM Test points to relate to each other as same layer, client layer, an d server layer.
- Path Discovery Data
 - Generic grouping for path discovery data
- Continuity check data
 - Generic grouping for continuity check data

Connection Less OAM Method Model

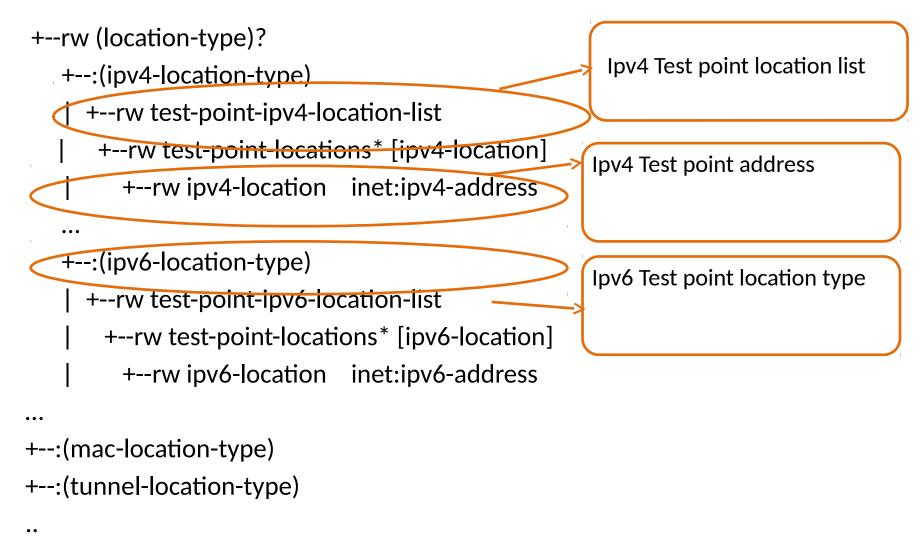
• RPC

- Continuity Check
 - Support Reachability Verification
 - Continuity Checks are used to verify that a destination is reach able, and are typically sent proactively, though they can be inv oked on-demand as well.
- Path Discovery / Fault localization
 - Identify nodes along the route to destination Test point

Details of TP-address



Details of location-type based list

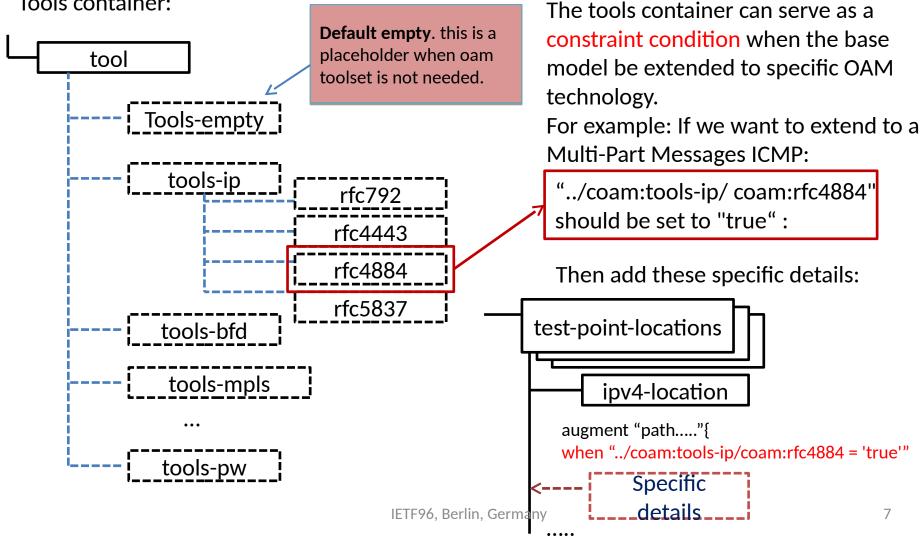


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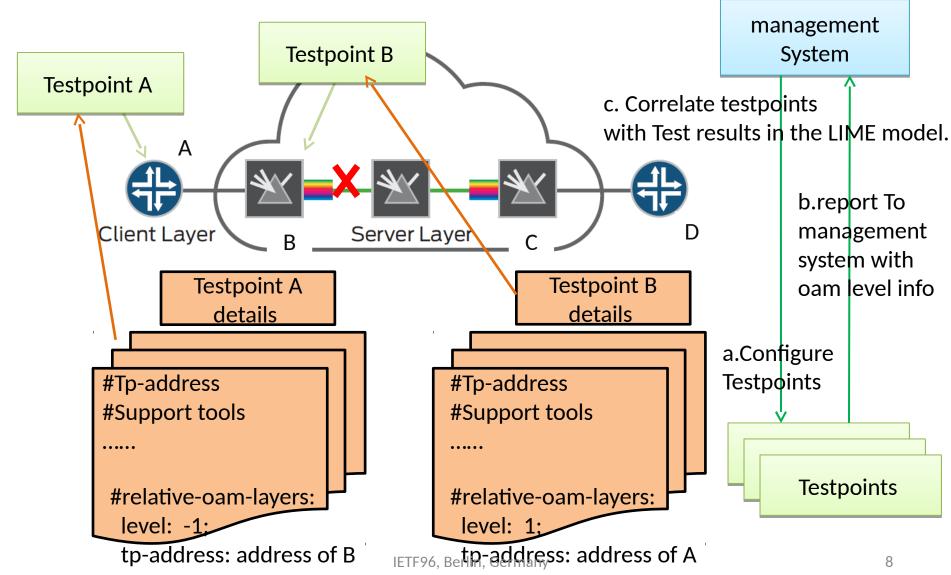
Usage of "tools" attribute

Usage example:

Tools container:



Usage of "OAM layer"



ML discussion Recap

- connectionless OAM model should be limited to continuity check, re achability verification.
- The test-point and many other acronyms should add to Terminology section.
- Some parameters in tool may not appropriate, such as RFC5880, RF C5885, RFC5882, RFC6375, RFC6428.
- The description of the model provided in Section 3 doesn't map to t he model hierarchy.
- The oper object should be made clear in the document.
- The IPv4-location and IPv6-location(cc-ipv4-sessions-statistics and c c-ipv6-sessions-statistics) should be collapsed into one.
- Break Model in Two modules Oam Data and Oam Data retrieval Met hods
- Long-lived oam session
- Does it make sense to present oam-layer in this model?
- Whether it need a pair of source and destination addresses and TLV address?
- Is FEC really an attribute of TP-location?
- Does it really need to enumerate all of the tools?

Agree, and fix in 01 version

Agree, and fix in 04

Agree, fix in next revision

Discussed in Interim

Next Step

- Fix the open issues raised on the list
- Add Common Session Information as it's appli cable to BFD and TWAMP/OWAMP
- Performance Monitoring to be added as separ ate draft

Appendix: Model Structure

