



International Multimedia Telecommunications Consortium

IMTC Approach to Interoperability Testing



Anatoli Levine

RADVISION & IMTC



SIP Interoperability Issues

- Too many variations possible in SIP implementations – drives lots of IOT issues:
 - Message parsing issues (e.g., upper case versus lower case)
 - Order in which certain fields are expected (e.g., number of m lines)
 - Expected value elements in the sip messages – e.g. DNS names instead of IP addresses
 - Unexpected sequence of messages (multiple 183/200)
 - Implementers choosing not to implement parts of specs



How To Improve Interoperability

- Identify a set of baseline features
- Define call flows for such baseline features and produce BCP/Implementer's guide
- Write down test cases around those features
- Setup and use IOT process/result management tools such as IOTZilla, and conduct testing
- Identify reference endpoints that have implemented the features correctly – have those reference endpoints available for virtual and F2F testing
- Have participants perform self test/certification before coming to IOT event.



IMTC Approach – Well defined test plans + Managed test process

- IOTZilla Suite covers the whole test life-cycle, from Planning through Test Execution and Results Analysis to proof-of-interoperability in a collaborative supporting platform. Major features include:
 - Planning, documenting and executing full conformance or Interoperability test specification and procedures – all in multi-vendor/multi-test environment
 - Tracking IOT process in highly secure web-based environment
 - Test Management, GroupWare, Scheduling and Infrastructure tools
- More info: www.ximpo.com



Conclusion

- Overall SIP Interoperability level should be improved based on systematic approach to the test plans and using IOT process management tools.
- IMTC has extensive body of IOT knowledge and expertise and would like to collaborate fully with IETF and SIP Forum to advance level of SIP IOT in the industry



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Thank you!

Anatoli Levine
alevine@radvision.com

