

LMAP WG - IETF 87

draft-linsner-Imap-use-cases-03

Marc Linsner
Phil Eardley
Trevor Burbridge
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- 3 Use Cases
 - ISP
 - End-user
 - Regulator

ISP use case

- Identifying, isolating and fixing problems in the network
 - Assist Test and Diagnostics tools
 - Identify degradations as well as failures
 - Identify issues affecting a group of customers (shared network element, equipment type, etc)
 - Test network segments, as well as access line
 - Scheduled and ad hoc tests needed
- Design and planning
 - To assist capacity planning & monitor suppliers
- Understanding the impact and operation of new devices, technology, products and services
 - IPv6, CGNAT, IPTV, new line cards...
- Understanding the quality experienced by customers
 - End-to-end service experience

Regulator use case

- Need to compare multiple broadband service providers, regardless of technical solution
 - Enforcement of policy
- Attributes to support Regulator use case
 - Verifiable, accurate, and fairness
 - Scalable, cost-effective
 - 100,000+ MAs

LMAP characteristics from the use cases

- Large-scale
 - Capable of running tests on individual lines (panel is not enough)
 - Potentially MA in every edge and end device
- Standardized
 - Meaningful to compare measurements of same metric
 - Allow operators to use multiple vendors for Measurement Agents
- Diversity
 - Measurement Agents in different devices (home hubs, set top boxes, edge devices), from different vendors, with different capabilities (wired, wireless)
- On-demand tests
 - By operator and by end user

Feedback on mailing list

- Reference to draft-schulzrinne-lmap-requirements-00
 - Was original draft that started LMAP discussion (and use cases)
 - Now expired
 - Will remove!
- Focus on ISP & regulator use cases
 - End user case out of scope of WG charter
 - End user initiated allowed in ISP use case
 - Will remove end-user standalone use case
- ISP use case comments
 - Mis-alignment of ‘benchmarking and competitor insight’ with charter statement ‘under the control of a single organization’

Feedback on mailing list (con't)

- ISP use case comments (con't)
 - Missing an entry for 'checking service SLA'
 - Will add words about SLA
 - Much discussion in BBF
 - What is meant by 'broadband'
 - In the draft it's loosely refers to a service that a consumer purchases, i.e. 'last mile'
 - Will add words describing 'broadband' in the LMAP context
- General comments
 - Lacking text on IPv4 vs. IPv6 and multiple interfaces
 - Under discussion amongst authors
 - Clarify how many MAs are expected
 - Expected >100,000
 - Will add to draft
 - Clarify various terms (QoS, QoE – RFC6390)
 - Will review in context of this draft

Feedback on mailing list (con't)

- No mention of MA on smartphone
 - Need input from mobile ISPs??
- Work out how to integrate with the 2 new use case drafts (and Alto ones?)