LMAP BoF: Large-scale Measurement of Broadband Performance

BoF Co-Chairs: Dan Romascanu and Al Morton

March 13, 2012, 1510 - 1710

http://trac.tools.ietf.org/bof/trac/#OperationsandManagement

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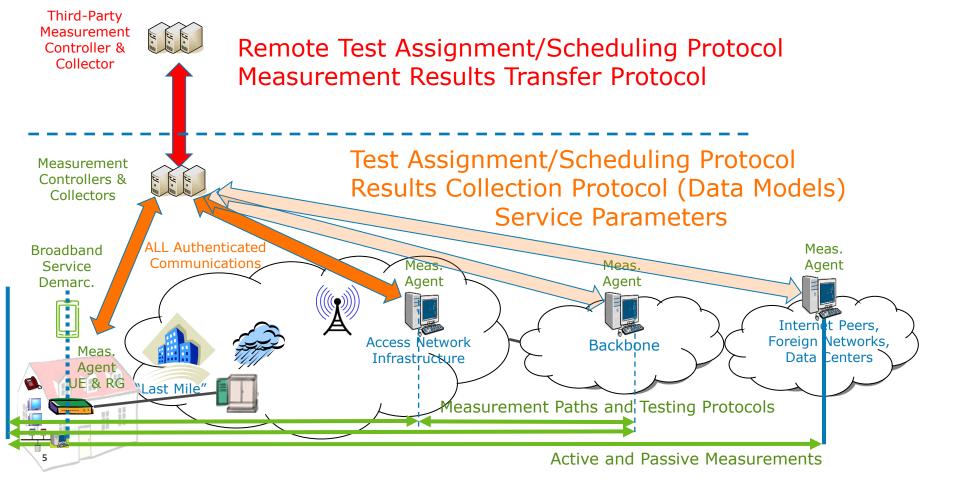
Agenda

- 1. Note Well, scribes, IPR, agenda bashing 5 min
- 2. Framing the Topic, chairs Al Morton, Dan Romascanu 10 min
 - scope of bof presentations, dependencies & coordination
- 3. General Use Cases Marc Linsner 10 min
- 4. ISP Use case & Framework: Problem Statement, Gaps, Requirements Phil Eardley 15 min
- 5. Foundation Blocks Marcelo Bagnulo 10 min
 - 5a. IPPM Registry 5b. Reference Path & Measurement Points
- 6. Solution Candidates 30 min total
 - 6a. IPFIX Brian Trammell 10+ min
 - 6b. NETCONF/YANG Juergen Schoenwaelder 10+ min
 - 6c. ALTO Jan Seedorf 5+ min
- 7. Scope Discussion 10 min
- 8. LMAP Charter Discussion 20 min
- 9. BOF Questions 5 min

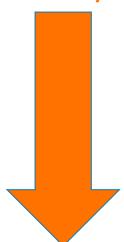
Framing Today's Discussion

- Measuring broadband service on a large scale requires
 - selection and standardization of protocol(s) within a logical architecture, through
 - development of key protocol requirements to coordinate specific interactions between the system components, and
 - many other agreements and standards (dependencies)
- Draft-schulzrinne-Imap-requirements-00 started IETF discussions: BoF Proposal and Charter seek simplifications
- BoF Presentations follow key assumptions:
 - Inclusion of the most demanding case (edge scale and complexity)
 - A single organization operates the measurement system
 - Also, subscriber may initiate their own measurements
 - Measurement functions of a device have a single controller association at any point in time.
 - Once tasked, measurement functions operate autonomously.
 - Policy decisions and coordination are out-of-scope

A View of Future LMAP Architecture (based on Req. from draft-schulzrinne-Imaprequirements-00)

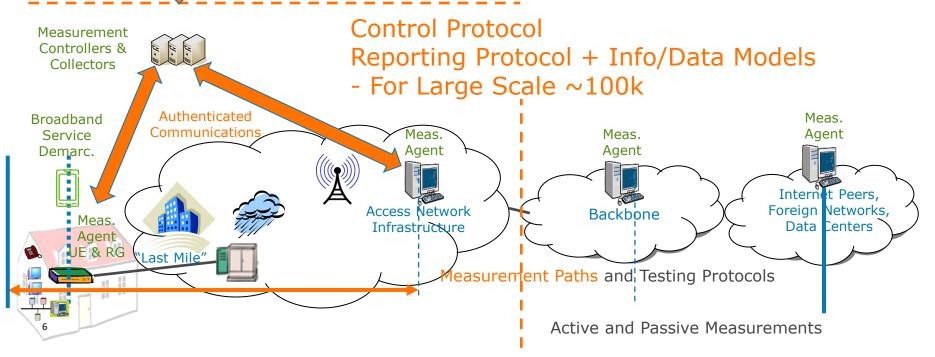


LMAP BoF/Proposed WG Scope



BoF Goals:

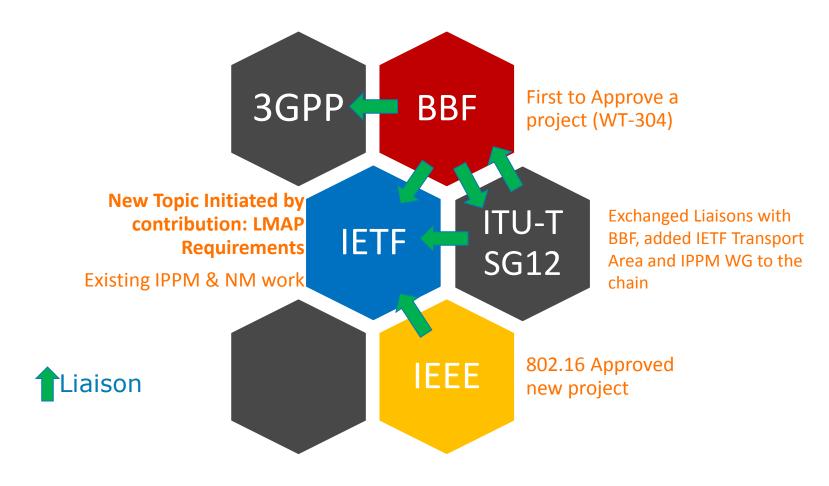
- sync on problem statement and use cases
- understand what the existing IETF protocols and data models can or can't do for LMAP.
- clarify aspects in-scope or not for LMAP



Dependencies

- IPPM WG (possibly re-chartered)
 - Existing Metrics and Methods of Measurement
 - New Metrics & Methods
 - Summarization (Statistics)
 - MA-MA measurement protocols (new features)
 - New Metric Registry (more details to follow)
- Coordination
 - Internal (other IETF WGs)
 - External (other SDOs and bodies)

LMAP Standards Initiative: Liaison Activity FYI (not discussed today)



Charter Points

We have a charter proposal submitted for BOF approval

- http://trac.tools.ietf.org/bof/trac/#
- Good enough for that phase, will need to be refined as part of WG formation
 - Several phases will follow: submit charter, IESG Internal Review, IETF External Review

So we won't edit text in the BOF but we know the wording in the charter should be further refined to include:

- Scope definition in a phased approach
 - Two use cases to start with (large operator, operator-3rd party)
 - Extensible Framework
- Goals
 - Framework and Requirements
 - Information Model, Data Model and Control Protocol for communication with Measurement Agents
 - Information Model, Data Model and Protocol for reports and secure delivery
 - Protocol Independent Registry for Metrics (probably in IPPM)
- Deliverables and Timelines
- Relation with other IETF WGs and other SDOs

BoF Questions (additional questions may be asked)

A. Should IETF take-up the work described by the Scope and Problem Statement*? (yes, no, no opinion)

(* with possible mods discussed today)

B. Indicate your intent to actively contribute to this work in IETF**. (yes, no, no opinion)

(** if taken-up in the approximate form described)

BACKUP