

NML Outreach Session

OGF 31, Taipei, 2011 March 22

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Group Description

- The purpose of the Network Mark-up Language Working Group is to combine efforts of multiple projects to describe network topologies, so that the outcome is a standardised network description ontology and schema, facilitating interoperability between different projects.

Network Markup Language

NML = Network Markup Language

Goal

- Create a network description ontology and schema
1. Ontology (Terminology, Schema) (UML)
 2. Syntax (XML and RDF)

Scope

In Scope

- Logical Network Infrastructure
- Multi-layer networks
- Configuration
- Capability

Out of Scope

- Physical Network Infrastructure
- Policy
- Authentication

Status up to OGF 30

- Consensus on Terminology
- Ties with related work (ITU, TMForum, IETF)
- Lot's of (academic) discussion on data model (*“Can we model everything as an abstract relation?”*)

Recent Discussions

- Serial Compound Relations
 - = Single layer network connections
- Syntax

- *Translating From DCN to NDL and Back Again* by Jeroen van der Ham (finally) published as GFD.175
- Delegation of urn:ogf in IETF and description of urn:ogf:network: in progress
- Made good decisions on last two OGFs, but need writers to put this in **NML base schema** draft! (draft is now outdated)

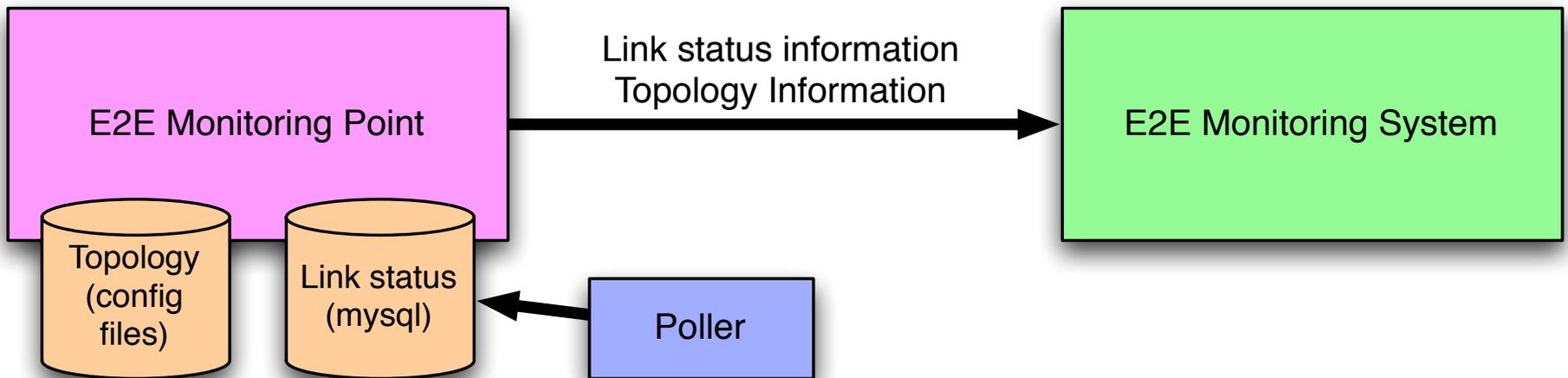
Applications!

- First application in progress: monitoring
- Second application in planning: path provisioning

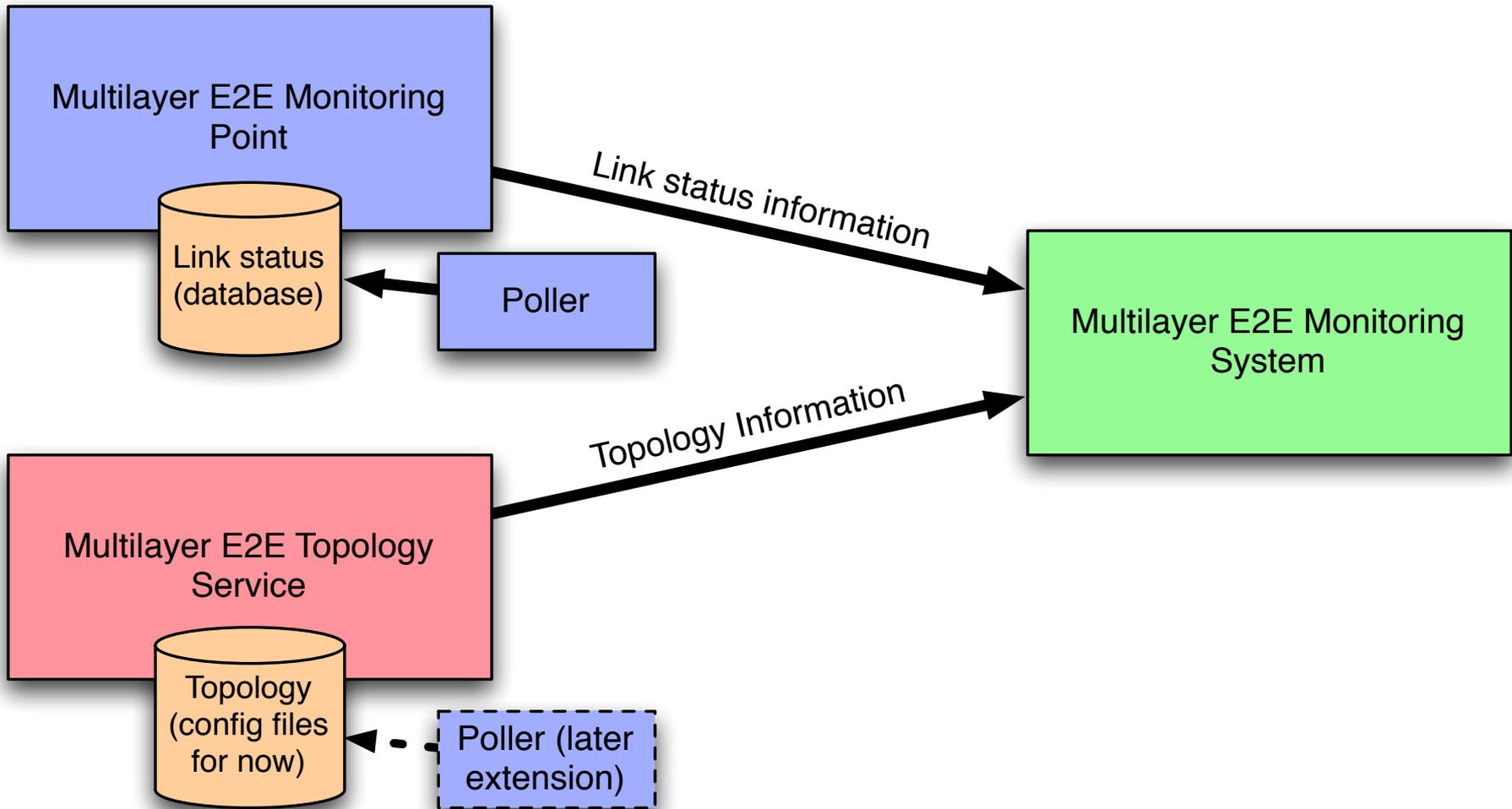
Monitoring Application

- PerfSONAR based
 - E2Emon tool revised, splitting topology service from monitoring service
- Involvement
 - European GÉANT3 (Roman Łapacz)
 - North American Internet2 (Jason Zurawski)
 - Where's Asia?
- Agreement on protocol sequence
 - Implementation expected in a few months

E2E-mon previous architecture



E2E-mon new architecture



Q&A

- Questions?
- http://www.ogf.org/gf/group_info/view.php?group=nml-wg