NML Progres

OGF 28, München

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Agenda

- 15:00 • Agenda & note taker & Overview
- 15:10 • Network concepts proposal
- 15:20 • Adaptation concepts proposal
- 15:30 • Addenda to & vote on proposals
- 16:00 • NSI Request on Network Topology – John Vollbrecht

- 17:00 • Discussion on cross-connects (configuration)
- 17:30 • Discussion on links and channels
- 18:00 • Discussion on end-to-end path

GFD.165

Thanks Paola Grosso, Aaron Brown, Aurélien Cedeyn, Freek Dijkstra, Jeroen van der Ham, Anand Patil, Pascale Primet, Martin Swany, and Jason Zurawski.

Concepts (a.k.a. buckets)

- Devices (node, port)
- Network (topology, domain)
- Adaptation
- Links and channels
- Cross-connects and channels (configuration)
- End-to-end path
- Capabilities (services)

OGF27: Topical Volunteers

- Device / Node / Port concepts
- Network / Topology / Domain concept Inder, Jeroen
- Adaptation / Layer concept Freek, Jeroen
- Capabilities / Service concept Martin
- Link / Path / Segment concepts Martin, Chin
- Syntax representation, Identifiers Freek
- Cross-connects and channels

OGF27: Service Example Volunteers

- Adaptation Service Jeroen
- Switching Matrix Service Jeroen
- Segment Concatenation Service John
- Multicast Service Petr
- Label Conversion Service Freek
- Data Transport Service Freek
- Measurement Point Service
- Virtualization Service
- Lookup Service Gigi
- Path Finding Service

Long Term Progres

- Decide on terminology
- Merge in schema
- Refine based on requirements / use cases
- Create syntax
- Write the bloody document now, shall we!?

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Network Terminology

Inder Monga and Jeroen van der Ham

Network Terminology

- **Topology**: A set of Network Elements and the links connecting them.
- **NetworkDomain**: An unordered collection of Network Elements managed under the same shared mechanism umbrella.
- **PolicyDomain**: An unordered collection of Network Elements managed under the same shared policy umbrella.

Adaptation Terminology

Jeroen van der Ham and Freek Dijkstra

Adaptation Terminology (1)

- **Layer**: A collection of Ports with common Characteristic Information.
- **AdaptationType**: Abstract type describing the technology of embedding the data of one layer into the data of another layer.
- **AdaptationService**: Adaptation capability in a topology or node.
- **Adaptation**: Actual data transport function where data of one port is embedded in the data of another port. (A configured AdaptationService, or a static component)

Adaptation Terminology (2)

- Adaptation can be part of a Topology or Node, *not be* part of a cross-connect in a SwitchMatrix.
- AdaptationService can be part of a Topology or Node, *not* be part of a SwitchMatrixService.
- **PortGroup**: a collection of zero or more Ports in a Node or a Topology. (PortGroups can be used to describe between which Ports an Adaptation can be created from an AdapatationService, or similarly between which Ports a cross-connect can be made in a SwitchMatrix.)

Adaptation Terminology (3)

- **AdaptationSource**: Embedding of data from a client port into a server port. (adaptation)
- **AdaptationSink**: Extraction of data out of a server port into a client port. (de-adaptation)
- **AdaptationSourceService**: AdaptationSource capability in a topology or node.
- **AdaptationSinkService**: AdaptationSink capability in a topology or node.

Service Terminology

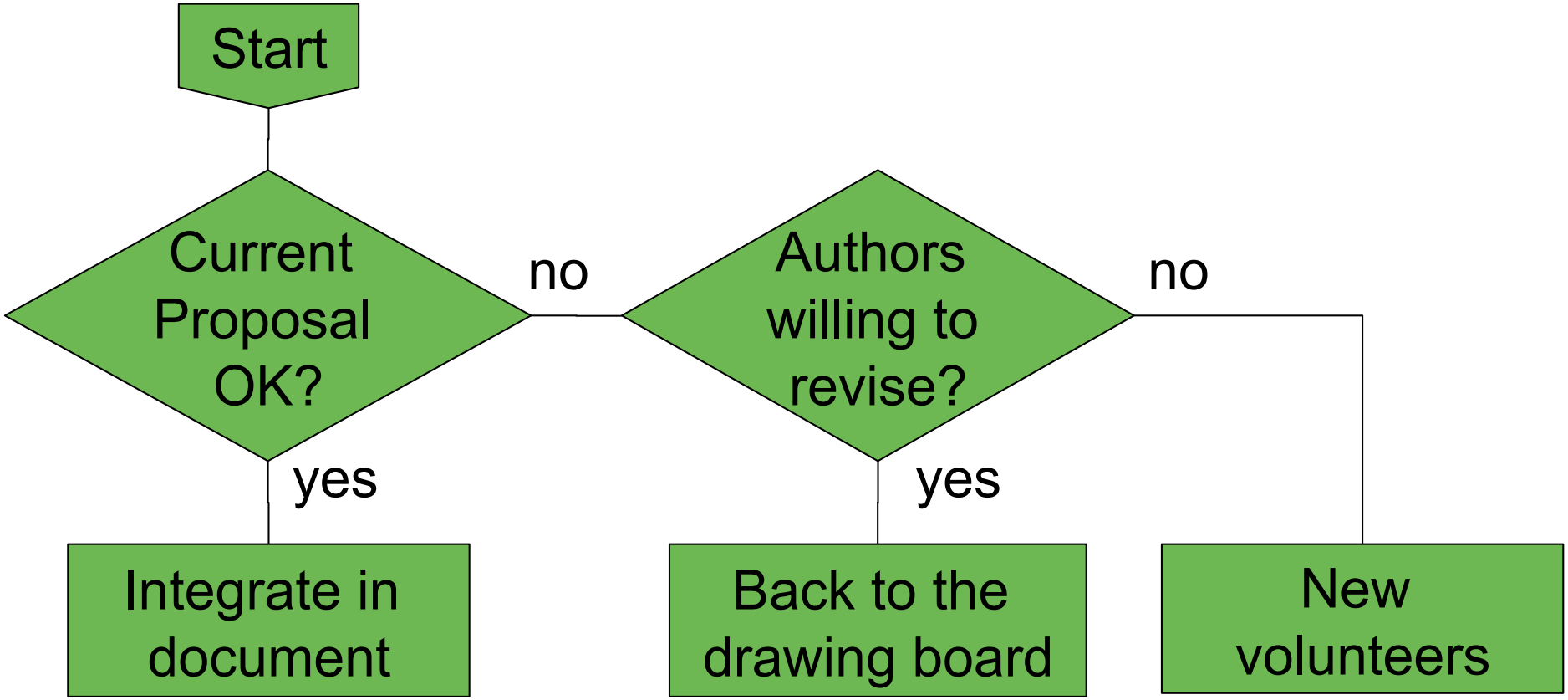
Martin Swany

Service Terminology

- **Service**: a certain capability being offered by a network object.

Addenda to Proposals

Yeah or Nay



Some Questions

Network

- Relation topology:domain 1:1, many:1 or 1:many?
- Why is domain only for a network, considering the "any IT" mention in infrastructure service BoF?
- Is there input from the recent topology discussion in the NSI?

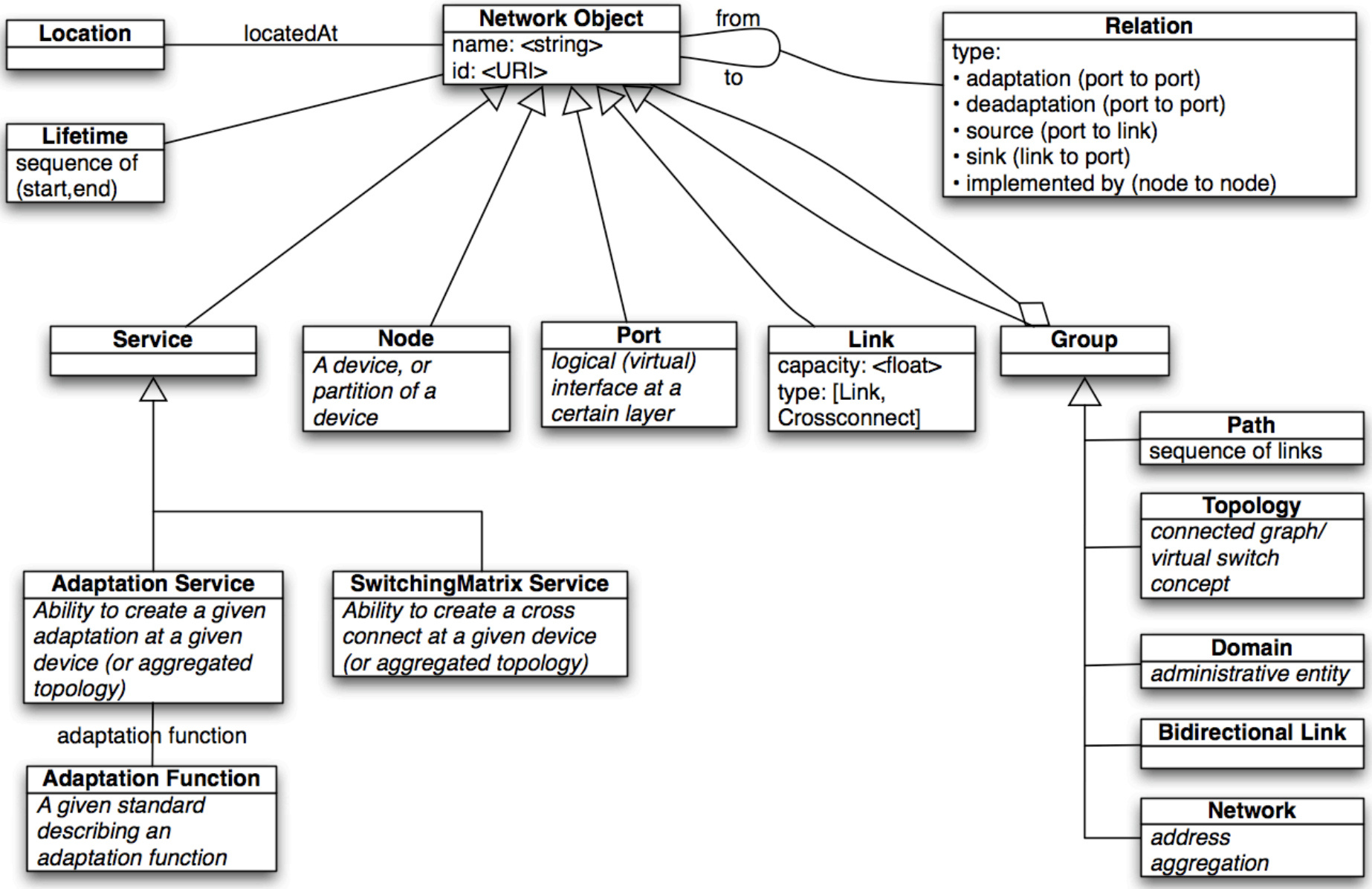
Adaptation

- no multiplexing/inverse multiplexing
- Layer definition contains “collection of port”

Topical Volunteers

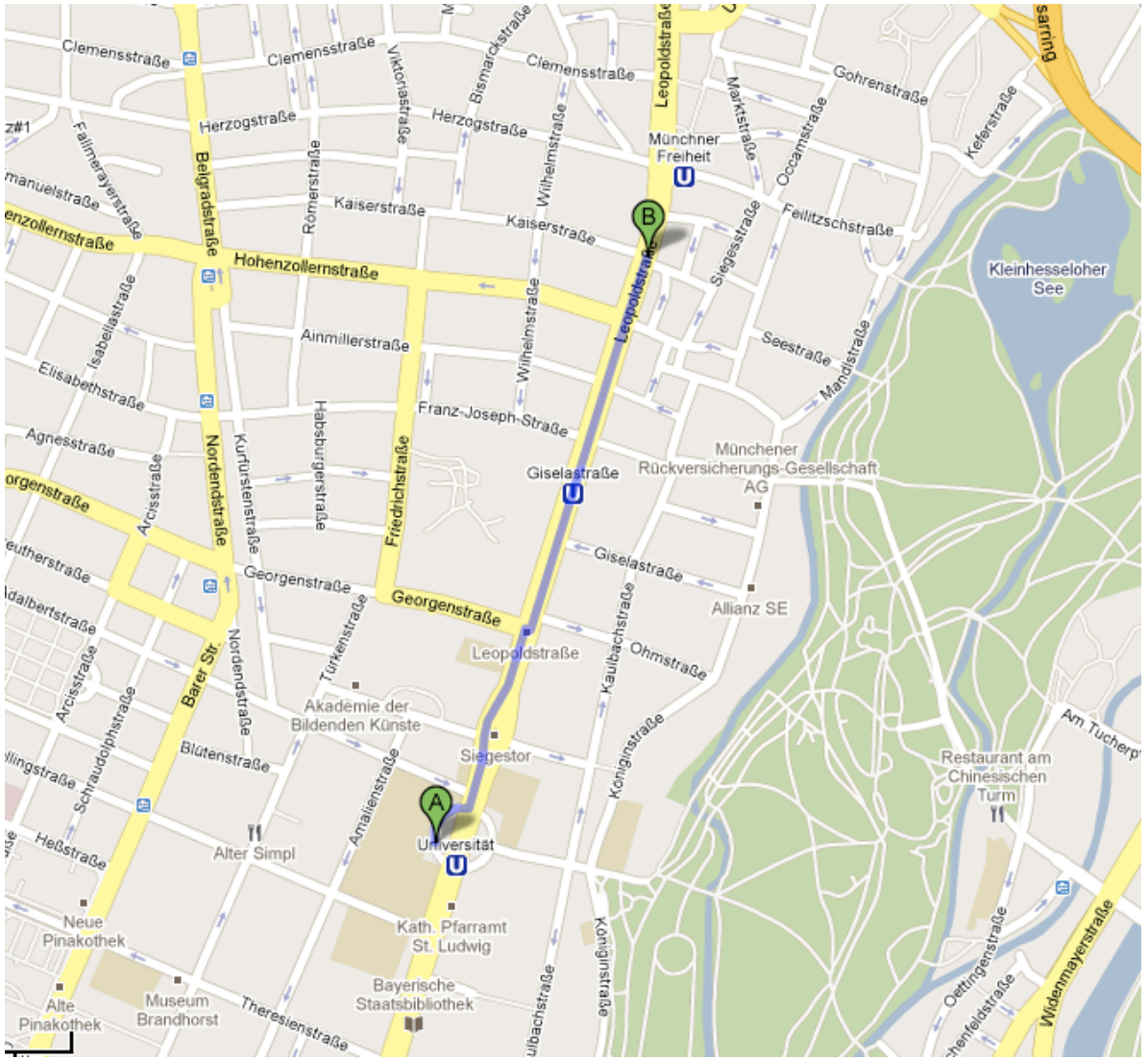
- Device / Node / Port concepts
- Network / Topology / Domain concept
- Capabilities / Service concept
- Adaptation / Layer refinement Freek, Jeroen
- Link / Path / Segment concepts Martin, Chin
- Syntax representation, Identifiers Freek
- Cross-connects and channels Jerry, Freek

Current Schema



NSI Dinner

Wirtshaus Zur Brez´n
Leopoldstraße 72
München



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