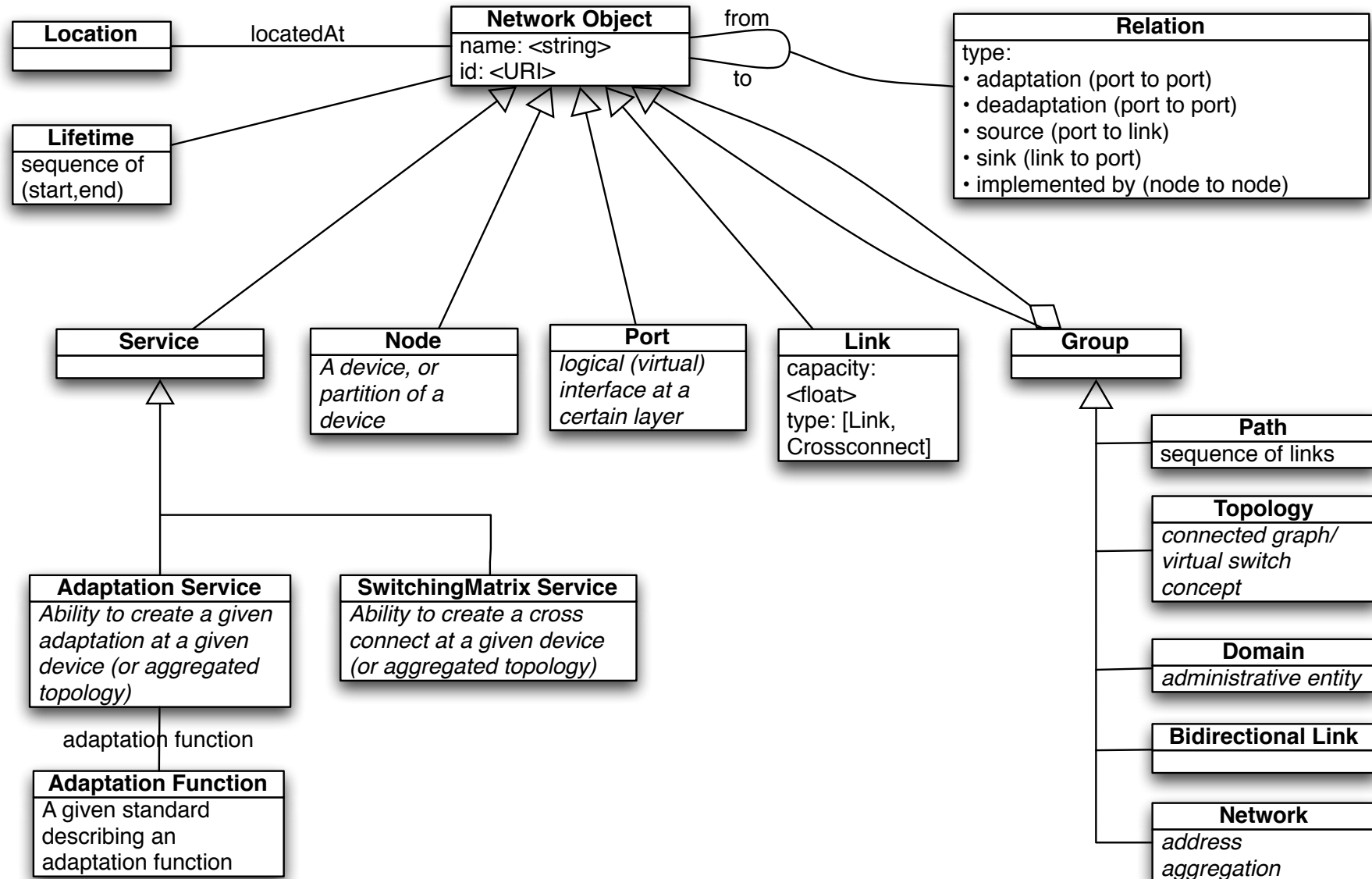


NSI Terminology

1. Network
2. Link
 - Is this better modeled as a simple network
3. Port
 - Belongs to Network, should It also belong to link
4. Segment
 - Resource for
5. Segment concatenation
6. Network connection
 - What is provided by network – segment between “end points”
7. Topology
8. Routing Area

For transport terminology need to determine role of NSI and NML in describing concepts and defining names for this model

NML Base Schema



“Network” Definition

Consensus on first definition

- “Network” := A collection of ports.
- “NSI Network” := A collection of ports with capability to form a connection between ports.
- “PS Network” := A collection of ports with capability to have a connection between ports.

Things with Ports

Names:

- Network
- Topology
- Device
- Domain
- Node
- Subnetwork
- ...

Properties:

- Single or multilayer
- Physical or Aggregated or Partitioned
- Functional or Administrative

Topical Helpers Needed

- Network / Topology / Domain concept
Inder, Jeroen
- Service concept Martin
- Adaptation / Layer concept Freek,
Jeroen
- Link / Path / Segment concepts Martin,
Chin
- Syntax representation, Identifiers Freek

Service Concepts

1. A service is the act of providing something, in particular of using the data plane.
 - a data connection
 - an adaptation connection
 - a data storage
2. A service is the act of offering something, in particular of offering the use of the data plane.
 - offering a data connection
 - describing an adaptation capability
 - offering a storage service
3. A service is the act of providing information, in particular providing control-plane services.
 - providing a lookup service (yellow pages)
 - providing a topology description service
 - an authentication service

“Service” Definition

Consensus on first definition

- "A Service object describes a certain capability being offered by a network object."
- ~~• "A Service object describes a certain offer by network object."~~
- ~~• "A Service object describes a certain capability of a network object."~~

Service Examples

- 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