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NML-WG

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Deliverables

1. Context
2. Single layer schema
3. Multi-layer schema + Technology extensions
4. (Syntax)

Relation with NSI







- ✦ NML give input to NSI “Issues” document
- ✦ NSI drafts use cases for NML
- ✦ NSI may want to use NML schema

Relation with other groups

- ✧ NML will describe topologies
- ✧ GLUE defined user requests, but not for networks

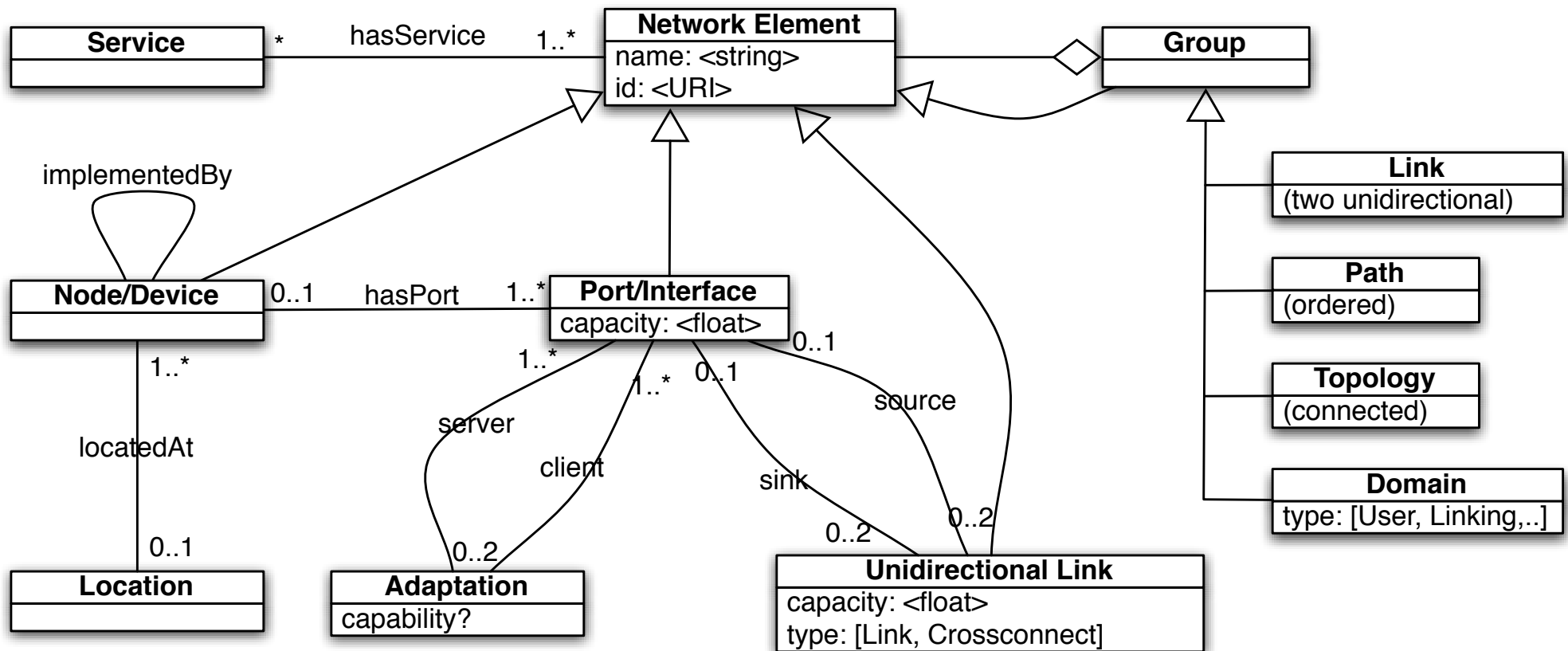
Terminology (Naming)

✱ <http://forge.gridforum.org/sf/go/doc15512>

terminology table.xls									
	A	B	C	F	G	H	I	J	K
1	Diagram	Description	G.805	NML	NSI	NM-WG	NDL	cNIS	Graph Theory
2		link, at a certain layer	Link Connection	Link	Link	Link	Link / linkTo	generic link	Edge
3		Logical port (per layer)	Connection Point	Port		Port	Interface	generic interface	Node
4		End-point of a connection	Termination Connection Point	Port		Port	Interface	generic interface	Node
5		concatenated series of links	Tandem Connection	Path		Path	Path / connectedTo		Path
6		End-to-end connection	Network Connection	Path	Connection	Path	Path / connectedTo		Path
7		Monitored end-to-end connection (with error checking, retransmission).	Trail	N/A	Connection	N/A (Circuit?)	N/A		Path
8		Multi-point link	N/A				Broadcast Segment		N/A
9		Layer network (topology on a single layer)	Layer Network; Subnetwork	Topology		N/A	Network		Graph
10		Partition of a device (virtual node)	Subnetwork	Partitioned Node			N/A	virtual node	
11		Aggregated device / topology (multi-layer)	Subnetwork	Topology			Network	?	Node
12		Domain (administrative), can also contain CPU, storage, ...	N/A				Admin Domain	domain	N/A
13		encapsulation of data of client layer in a server layer	Adaptation			N/A	Adaptation		N/A
14		Addition of monitoring information to an end-to-end connection	Trail Termination			N/A	Adaptation		N/A
15		Network layer or sublayer (not necessarily OSI layer)	Layer				Layer	data encoding type	N/A
16		Data encoding of a network layer	Characteristic information				Layer	data encoding type	N/A
17		Physical Link	Link				Link	generic link	Edge
18		Physical Interface (including adaptation)	N/A				N/A	generic interface	Node
19		Physical Device	N/A	Node	Switch	Node	Device	generic node	Node
20		Switching capability	Forwarder				Switch Matrix	switching type	N/A
21		Cross connect, flexible connection	subnetwork connection				switchTo	cross connect	
22		Channel (over a link)	component link; client layer link connection;				adaptation + linkTo		

Identifiers

- ✦ urn:ogf:network:[dns name]:[opaque part]
 - ✦ e.g. urn:ogf:network:example.net:1234xyz



NML Base Schema