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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

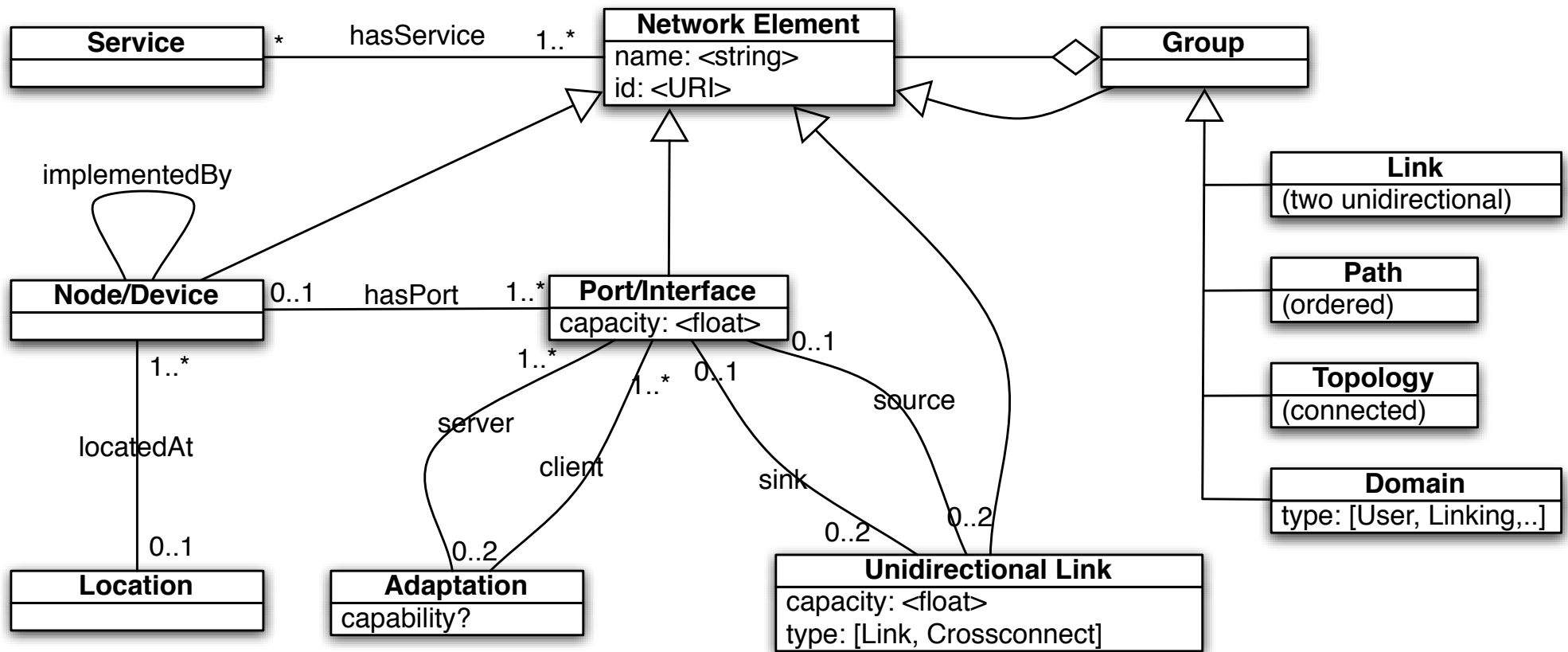
# Terminology (Naming)

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

terminology table.xls									
Diagram	Description	G.805	NML	NSI	NM-WG	NDL	cNIS	Graph Theory	
	link, at a certain layer	Link Connection	Link	Link	Link	Link / linkTo	generic link	Edge	
	Logical port (per layer)	Connection Point	Port		Port	Interface	generic interface	Node	
	End-point of a connection	Termination Connection Point	Port		Port	Interface	generic interface	Node	
	concatenated series of links	Tandem Connection	Path		Path	Path / connectedTo		Path	
	End-to-end connection	Network Connection	Path	Connection	Path	Path / connectedTo		Path	
	Monitored end-to-end connection (with error checking, retransmission).	Trail	N/A	Connection	N/A (Circuit?)	N/A		Path	
	Multi-point link	N/A				Broadcast Segment		N/A	
	Layer network (topology on a single layer)	Layer Network; Subnetwork	Topology		N/A	Network		Graph	
	Partition of a device (virtual node)	Subnetwork	Partitioned Node			N/A	virtual node		
	Aggregated device / topology (multi-layer)	Subnetwork	Topology			Network	?	Node	
	Domain (administrative), can also contain CPU, storage, ...	N/A				Admin Domain	domain	N/A	
	encapsulation of data of client layer in a server layer	Adaptation			N/A	Adaptation		N/A	
	Addition of monitoring information to an end-to-end connection	Trail Termination			N/A	Adaptation		N/A	
	Network layer or sublayer (not necessarily OSI layer)	Layer				Layer	data encoding type	N/A	
	Data encoding of a network layer	Characteristic information				Layer	data encoding type	N/A	
	Physical Link	Link				Link	generic link	Edge	
	Physical Interface (including adaptation)	N/A				N/A	generic interface	Node	
	Physical Device	N/A	Node	Switch	Node	Device	generic node	Node	
	Switching capability	Forwarder				Switch Matrix	switching type	N/A	
	Cross connect, flexible connection	subnetwork connection				switchTo	cross connect		
	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