

Dynamic Topology Exchange (DTOX)

Jeroen van der Ham

vdham@uva.nl

DTOX TF

- ✦ Started 6 months ago
- ✦ Goal: Specify, Implement, Deploy, Feedback

DTOX TF

- ✦ Started 6 months ago
- ✦ Goal: Specify, Implement, Deploy, Feedback
 - ✦ Let's step back in time.....

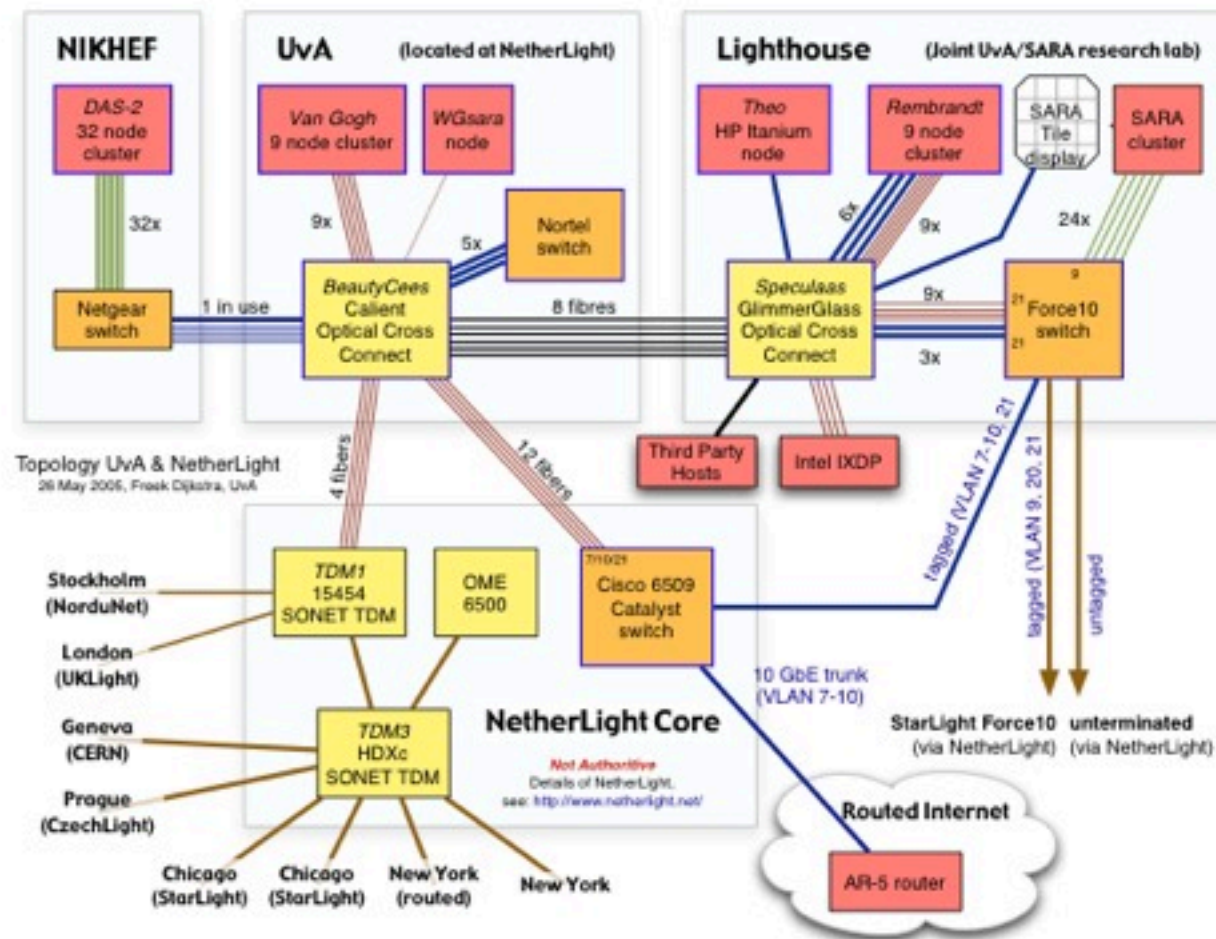
Using RDF to Describe Networks

Jeroen van der Ham
vdham@science.uva.nl

Advanced Internet Research Group
Universiteit van Amsterdam

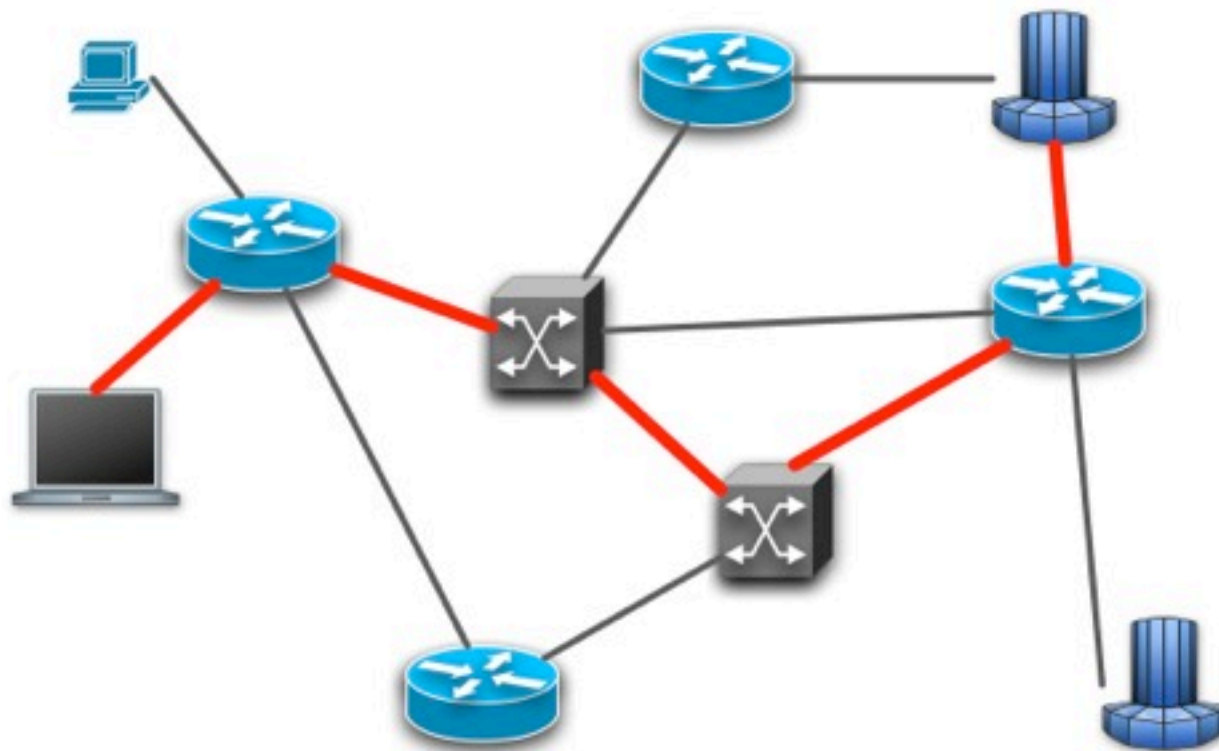
October 7, 2005

Why Do We Need Network Descriptions?



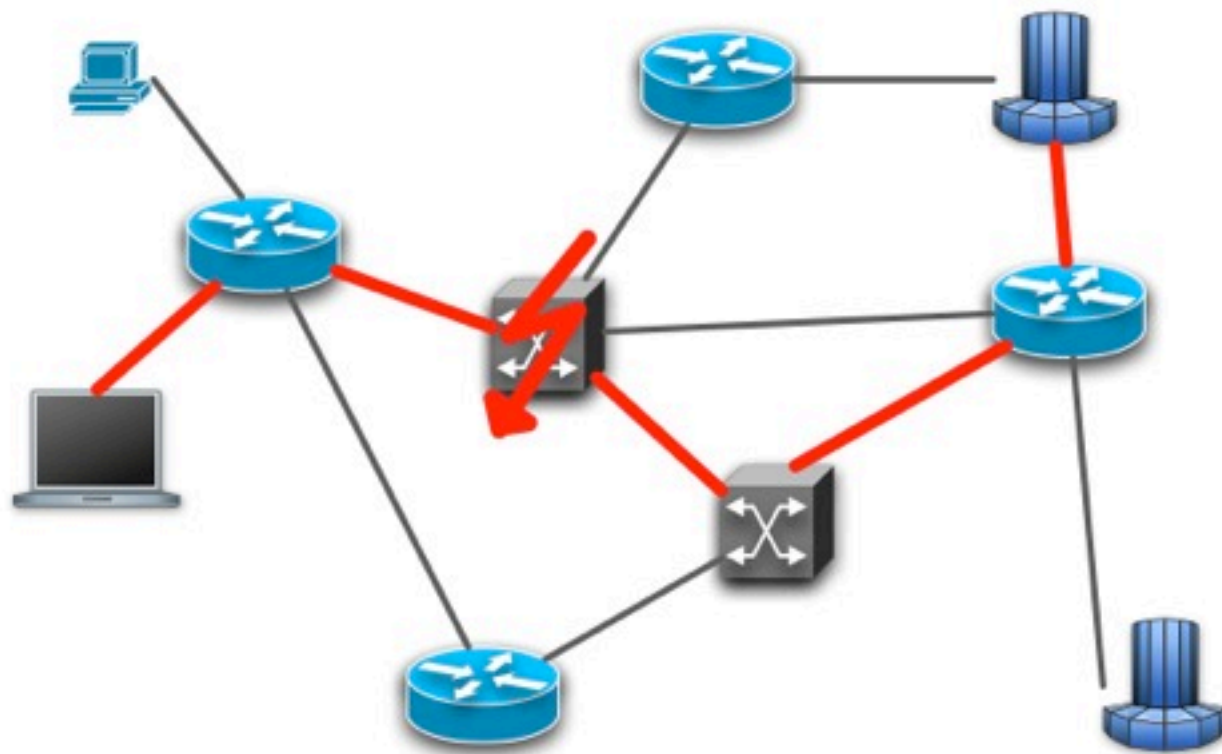
- To provide an overview of resources
- Make path discovery easier
- Do simple problem detection

Why Do We Need Network Descriptions?



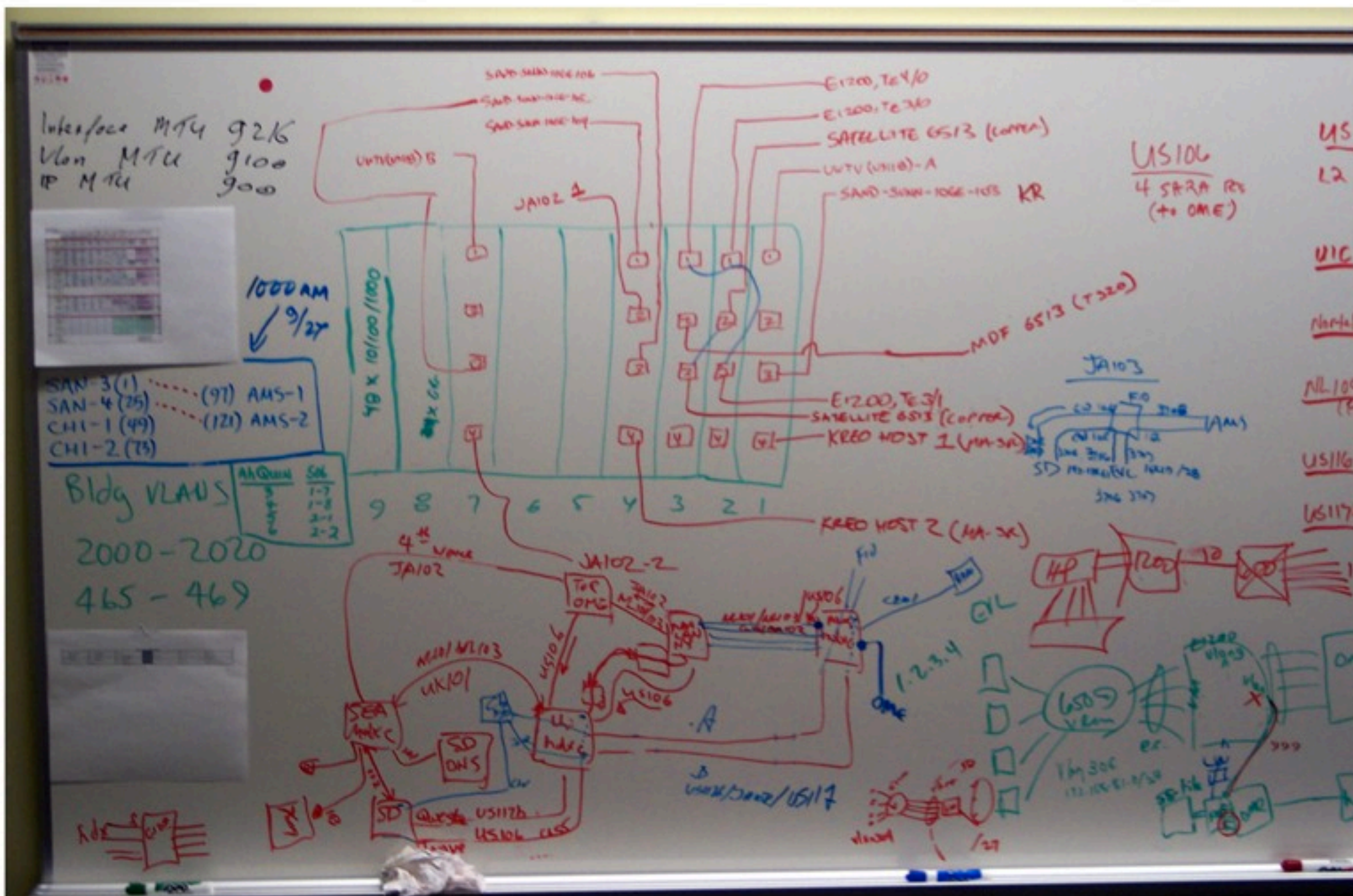
- To provide an overview of resources
- Make path discovery easier
- Do simple problem detection

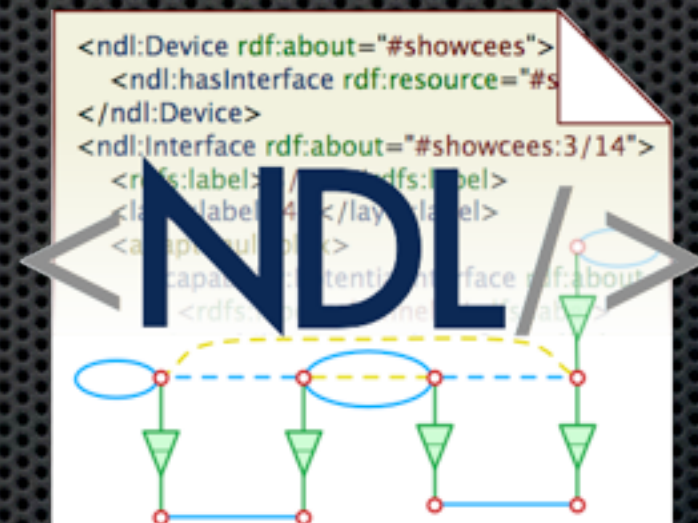
Why Do We Need Network Descriptions?



- To provide an overview of resources
- Make path discovery easier
- Do simple problem detection

Why Do We Need Network Descriptions NOW?





Step 1 - Location

Indicate the name and a short description of the network that is going to be described in NDL.

Name Description

Provide also the latitude and the longitude of this location: this will aid the visualization programs.
Both latitude and longitude should use **floating point notation**.

Latitude Longitude

Step 2 - Devices

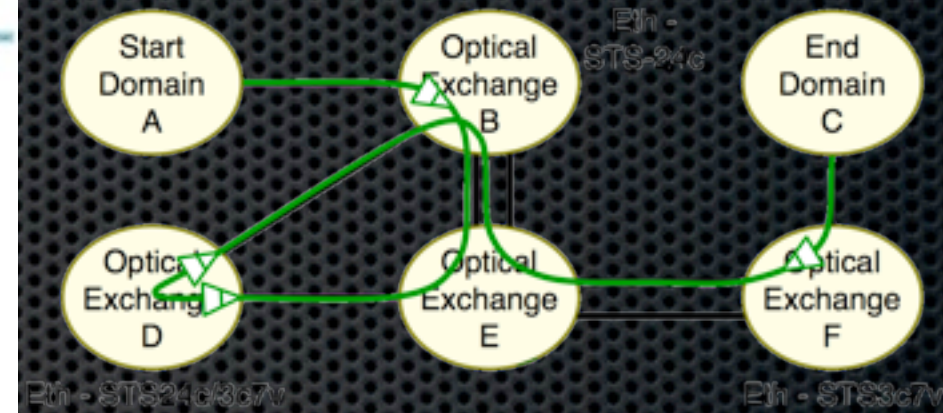
Indicate the name of all the devices present in the network. If you need to describe more than 3 devices just "Add a Device"

Device

Device

Device





Step 1 - Location

Indicate the name and a short description of the network that is going to be described in NDL.

Name Description

Provide also the latitude and the longitude of this location: this will aid the visualization programs.
Both latitude and longitude should use floating point notation.

Latitude Longitude

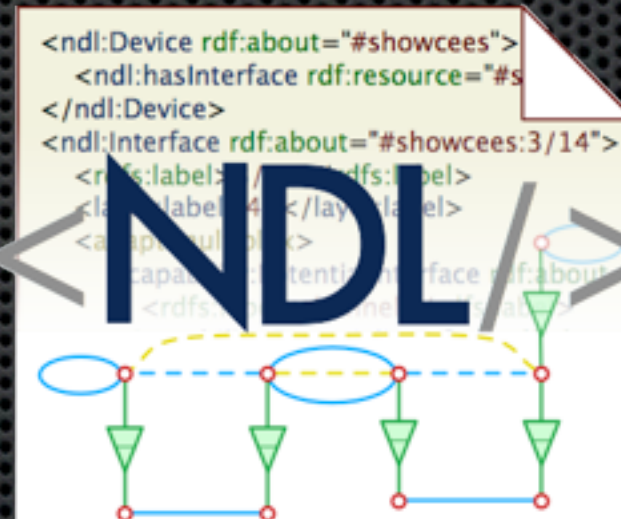
Step 2 - Devices

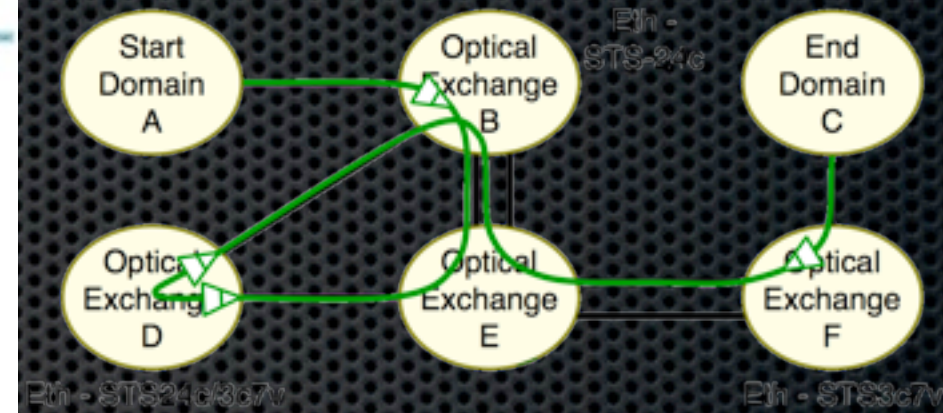
Indicate the name of all the devices present in the network. If you need to describe more than 3 devices just "Add a Device"

Device

Device

Device





Step 1 - Location

Indicate the name and a short description of the network that is going to be described in NDL.

Name Description

Provide also the latitude and the longitude of this location: this will aid the visualization programs.
Both latitude and longitude should use floating point notation.

Latitude Longitude

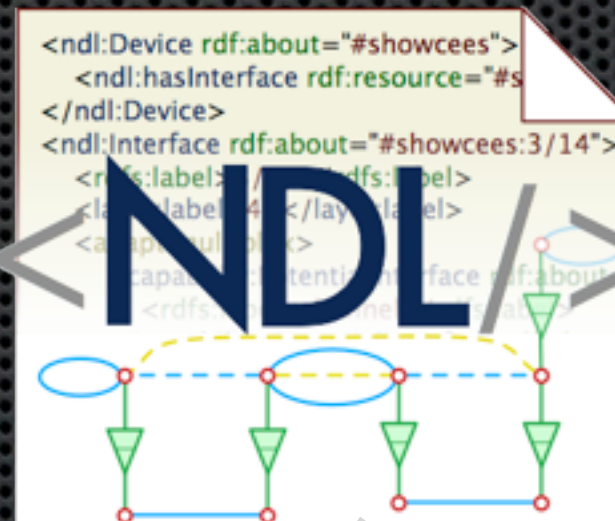
Step 2 - Devices

Indicate the name of all the devices present in the network. If you need to describe more than 3 devices just "Add a Device"

Device

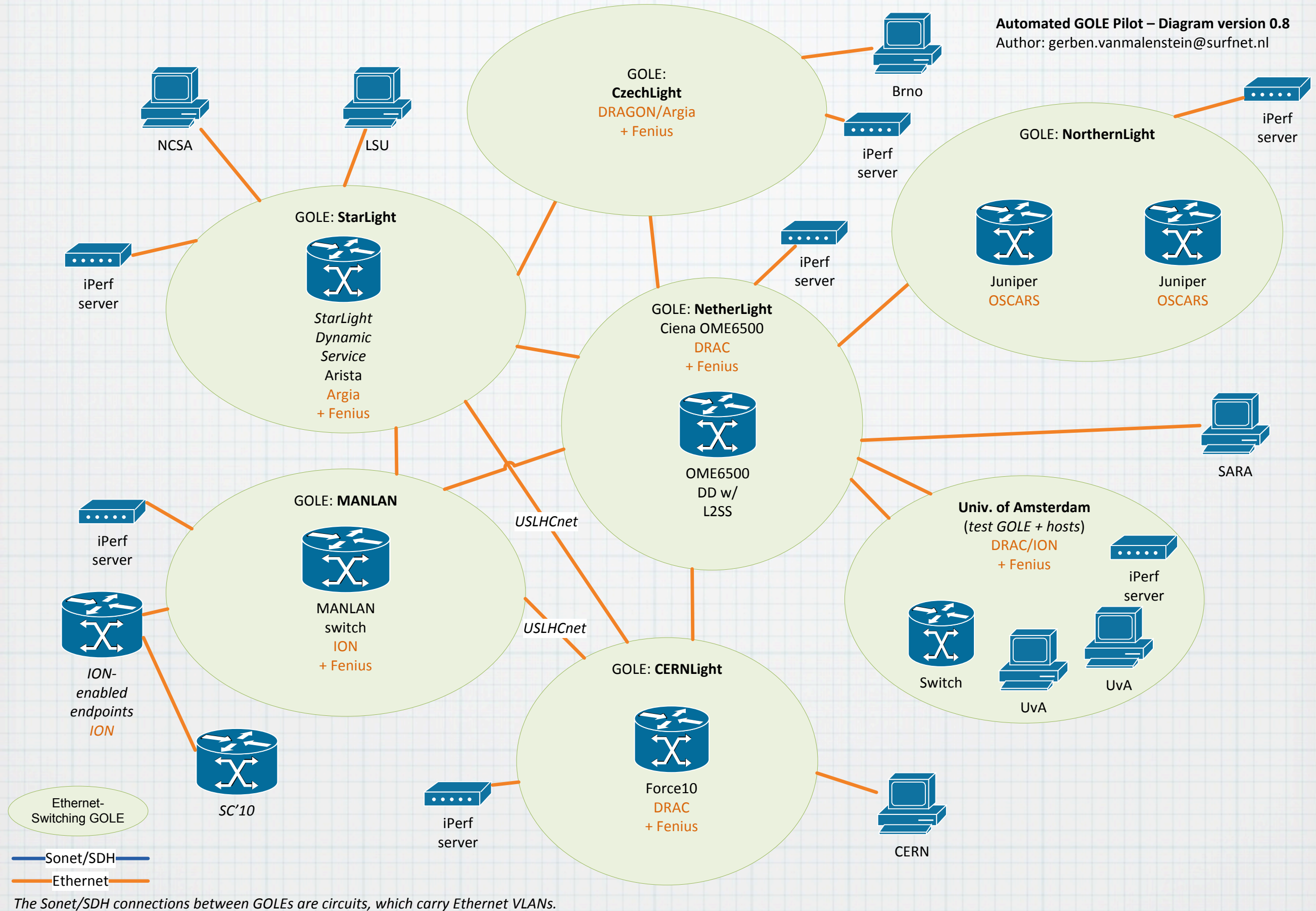
Device

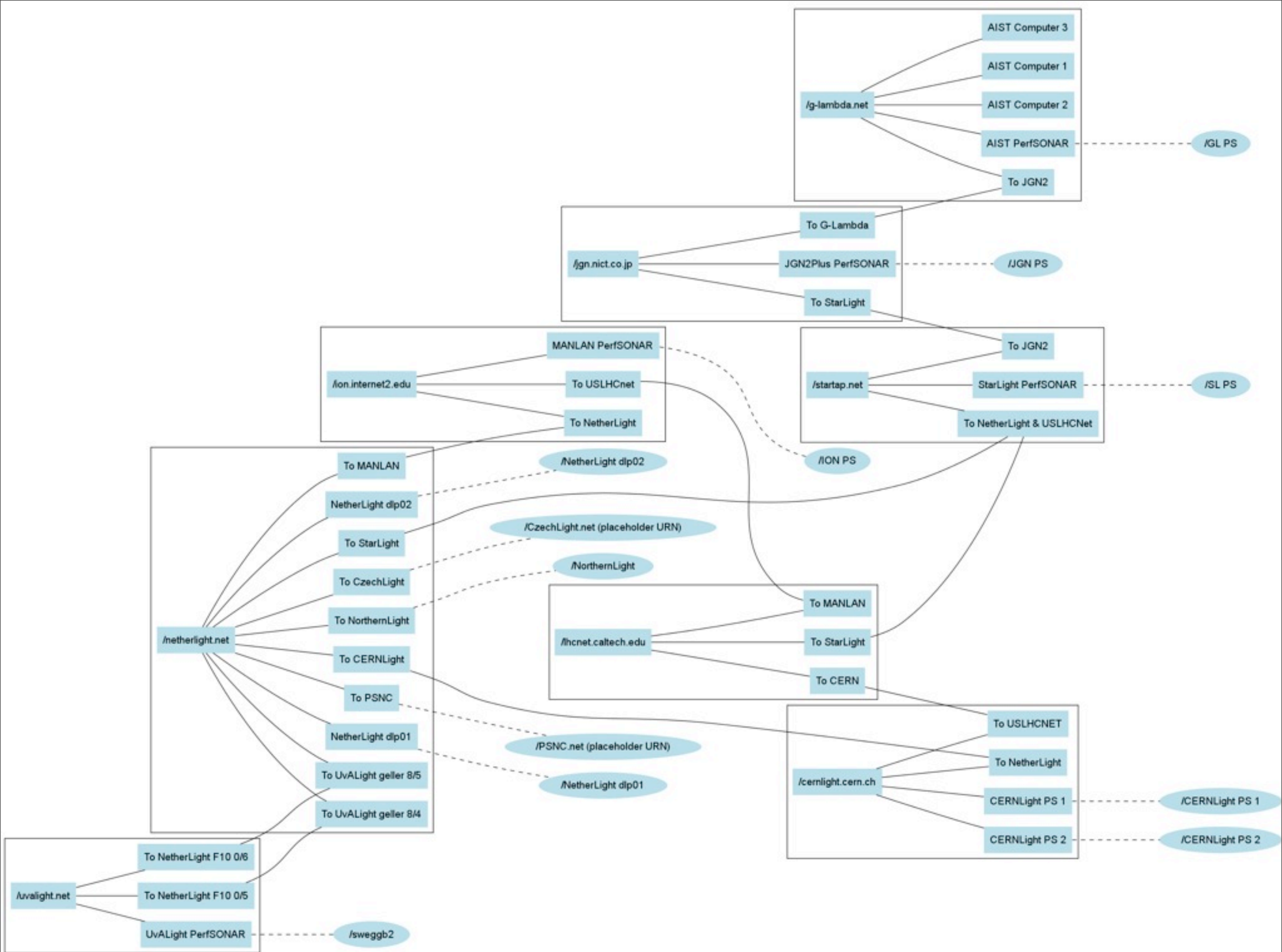
Device



Automated GOLE Demo

- ✦ Finally, automatic inter-domain provisioning is a reality





Topology Aggregation

