



www. **OpenNaaS** .org

EGI Technical Forum 2013

OpenNaaS – Network as a Service

OpenNaaS is:

- Open-source software framework
- Free to download, personalise and use
- OSGI-based

Useful for:

- Provisioning Networks on Demand
- Deploying Dynamic configurations over the network
- Adapting Networks to different Applications



So... what?

- Seamlessly use and benefit from **network virtualisation**
- Network as “**Resources with Capabilities**”
- **Workflow** and **Job** concepts... in the network!
- **Mapping** between Cloud/App and Network Services

- Smartly manage:
 - Users accessing the network infrastructure
 - Network services together with Cloud/App services
 - Infrastructure modelling and virtual infrastructures
 - Configuration deployment



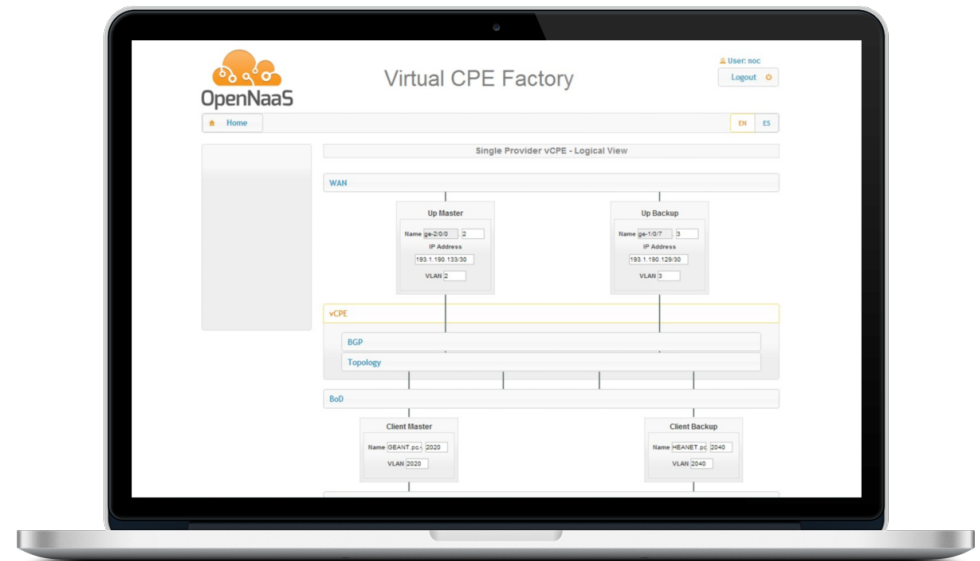
What we did: Virtual CPE

Goal

Rationalize the equipment deployed on site of the client by leveraging virtualization so that a single device at the client institution can share the role, or that it can be provided by a small number of aggregating devices at a central location.

Benefits

- Save hardware
- Faster operations
- Delegate to customer
- Gradual deployment
- Flexible management



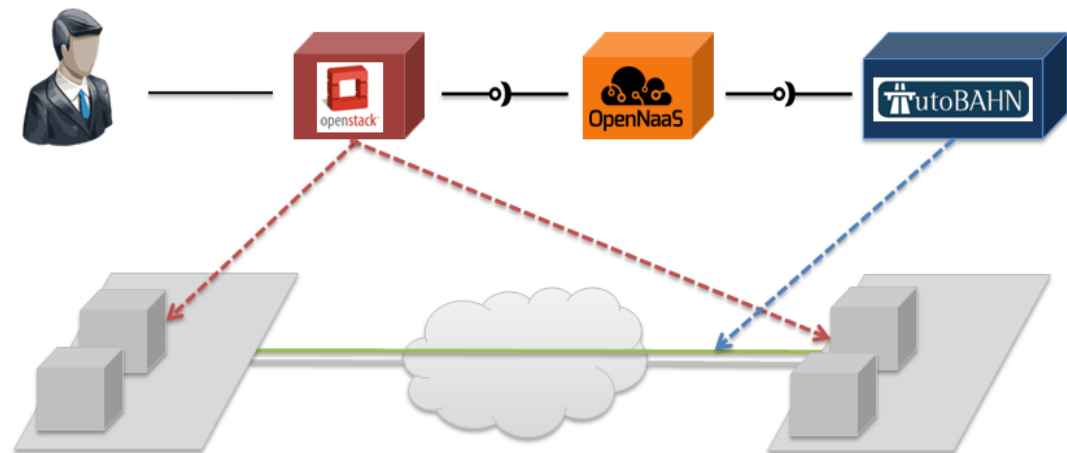
What we did: Inter-DC connectivity

Goal

E2E Network service provisioning & management between DCs.
Software-based management solution leveraging virtualization technologies, applied on top of network and Data Center infrastructures. Components: OpenNaaS and OpenStack.

Benefits

Cloud and network services integration (IaaS & NaaS)
User-driven provisioning



get & compile & install

- Built it from scratch:

```
$ git clone git://github.com/dana-i2cat/opennaas.git
$ cd opennaas
$ git checkout develop # optional
$ mvn install
```

Fetch code

Fetch unstable
Built it

- Update from source:

```
$ cd opennaas
$ mvn clean
$ git pull git://github.com/dana-i2cat/opennaas.git
$ mvn install
```

Clean past built
Fetch updates
Built it

- Run it:

```
$ cp -r platform/target/opennaas-0.10 /srv
$ cd /srv/opennaas-0.10
$ ./bin/opennaas.sh
```

Enjoy!



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THANK YOU
MOLTES GRÀCIES