

# A POLLON

DE-CIX APOLLON. CUTTING EDGE INTERCONNECTION.



[apollon.de-cix.net](http://apollon.de-cix.net)



# DE-CIX Apollon Migration Update

2013-10-17

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Where networks meet



**DE-CIX**

## The story so far....

- DE-CIX about to replace its production infrastructure
  - From Force10 switches to Alcatel-Lucent routers
  - From pure layer 2 switching to MPLS/VPLS routing
  - From passive to active optical network layer
- Details of the new architecture were presented at RIPE66 Dublin
- This is an update about the current state of the migration





## Artemis

- New DE-CIX internal tool
  - Technical customer database
  - provisioning
  - configuration
- Completely written from scratch
  - 19203 lines of code so far
  - 200 man days development time
- Replaces a lot of over-the-years-grown scripts



## DE-CIX Apollon – Migration Preparation

- Database cleanup – comparing reality with database
- Kickoff meeting with datacenter operators
- Working closely with the datacenter operators to find the best strategy for each DE-CIX site
  - Precabling new hardware
  - On some sites we needed to replace lots of connections to customer
  - Big “Thank You” to Interxion, Telecity and Level3 for their effort and professionalism to help us make these migrations happen



## DE-CIX Apollon – Migration Preparation - Customers

- Customers are individually notified at least two weeks in advance
- And again on the day before the migration
- Technical list is of course also notified
- For one site we needed a LOA from each customer, as all fibres had to be replaced.
- Directly after each individual move the migrated customer is again notified



## DE-CIX Apollon – State of the migration

- Three migration windows done
- 94 customers with 237 ports are already migrated
- Migrations happen on Wednesdays, starting at midnight
- Last migration will be on 4th of December





## Migration – how does it work?

- Team of four
  - Datacenter engineer on site moving fibres
  - DE-CIX engineer in office doing configuration
  - DE-CIX customer supporter in office updating customers
  - Standby DE-CIX engineer on site for special situations
- All connected via a phone bridge
- All having a view on the router logfile to monitor status





## Migration – how do we do it?

- Onsite meeting in the week before the migration
- On the day of the migration:
  - Be at the office at 23:30
  - Start the phone bridge
  - Start migrating customers at midnight
  - Until finished – with a 10 minute break every hour
  - Write a report and do a handover to the day team



## Migrating customers

- Pull out fibre on the old platform
- Plug fibre into new DE-CIX Apollon platform
- Check light level – clean if necessary
- Check ping / packet loss
- Activate port
- Notify customer
- Takes about 3 minutes
- EtherChannels: Move half of ports, then test and activate



Thank you!

Join DE-CIX now!

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