



# ***DE-CIX Update***

DENOG8, 23. November 2016, Darmstadt

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## *Quick Update*

- New Locations
- New Services
- New Service Structure
- Technical Issues



**Where  
networks  
meet**

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# New Locations



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# New Services



- GlobePEER Remote
- Remote Peering is around for ages
  - From enabling surrounding data centres to far reaching long hauling
  - Via Resellers and via own connections
- Offer at selected locations for existing customers
  - Currently NYC, DUS and IST to FRA
- One physical port, different Vlans

# New Services – DirectCLOUD



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## New Services



- Blackholing:
  - BLACKHOLE BGP Community (RFC 7999) for signalling blackholes (supported at all DE-CIX Route Servers)
  - Dedicated Blackhole Route Server in Frankfurt for Blackholed routes only

# New Service Structure



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# Technical Issues

- IP hijack from a customer A at the route server (RIR entries existed)
  - Complaint received from another customer B (for receiving spam)
  - IP space holder confirmed IP hijack
  - Customer A was contacted and asked for clarification -> misconfiguration
  - **Questions: Do we need clear policies what to do here? Disconnect <-> Agent to resolve the dispute?**
  
- Packet loss at edge01.dx2 (FRA)
  - Packet loss detected on a few ports on the 3 added linecards (LAGs only) (17.11.)
  - 24/7 outage team established together with Nokia
  - 2 software bugs triggered by adding new linecards
    - Mother linecard rebooted -> both daughter linecards rebooted
    - Sequence of reboot / RfS of daughter linecards critical -> wrong sequence -> ports (LAGs only) show packet loss
  - Reboot of edge01.dx2 -> Problem expanded to more ports (LAGs only) (18.11)
  - New software released applied, reboot on edge01.dx2 (19.11)
  - Problem resolved
  - **Lessons learned: more external monitoring needed -> will be implemented**



# DE-CIX 's Internet Exchange Points



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