

DE-CIX Update

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Where networks meet

www.de-cix.net

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Quick Update



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

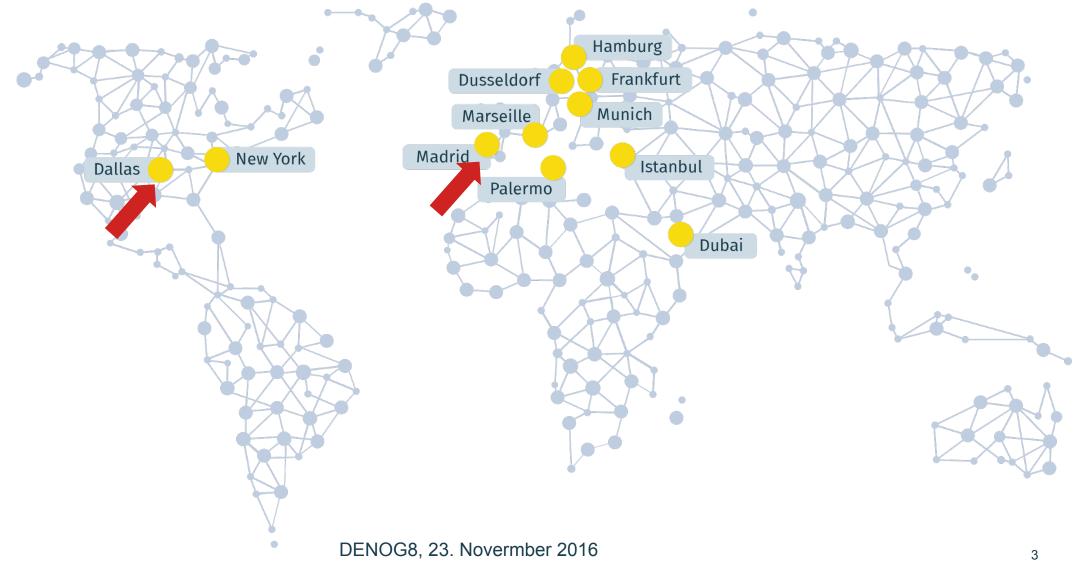
Where networks meet



New Locations



Where networks meet





New Services



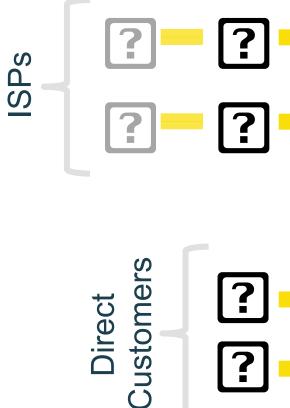


- → GlobePEER Remote
- → Remote Peering is around for ages
 - → From enabling surrounding data centres to far reaching long hauling
 - → Via Resellers and via own connections
- → Offer at selected locations for existing customers
 - → Currently NYC, DUS and IST to FRA
- → One physical port, different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



New Services - DirectCLOUD







- ? Building block
- ? 20 sites in Frankfurt
- ? DE-CIX port
- ? Competitive pricing









You?

Cloud itegrators

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New Services





→ Blackholing:

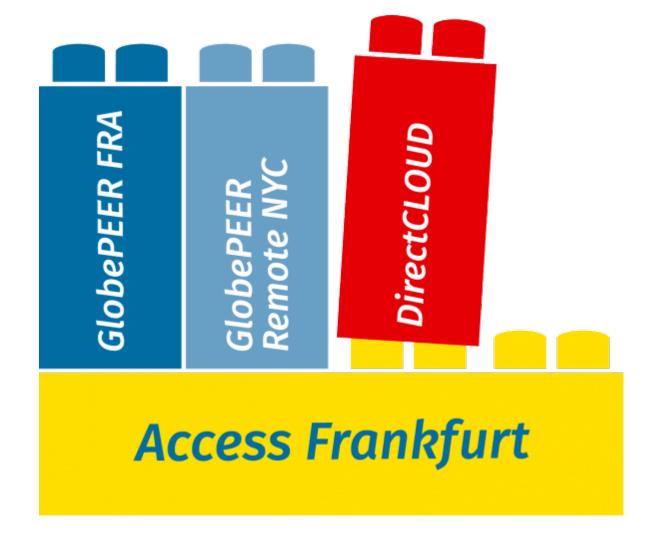
- → BLACKHOLE BGP Community (RFC 7999) for signalling blackholes (supported at all DE-CIX Route Servers)
- → Dedicated Blackhole Route Server in Frankfurt for Blackholed routes only



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



Where networks meet





By joining DE-CIX, you become part of a universe of networks. Everywhere.

Where networks meet

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