**Federated PoP facility in Hamburg**

**WHAT**

The federated PoP (f-PoP) is a physical location where several networks such as NREN and/or GÉANT are co-located to offer services in a joint manner.

**WHERE**

GN3 JRA1 T3 group has established a pilot federated PoP facility in Hamburg, Germany.

**WHY**

This initiative supports the development of cost effective (dynamic) services based on close cooperation of NRENs, including CBFs. The experimental f-PoP in Hamburg provides experiences with such collaboration concept.

**HOW**

Possible f-PoP configuration options are:
- Lightweight (optical only)
- Switching (optical, and switching)
- Routing (optical and routing)
- Full service (optical, switching and routing)

The Hamburg f-PoP consists of a switch that can be dynamically configured. Established solution is presented at Fig. 1

**WHO**

Currently the f-PoP in Hamburg involves three NRENs: NORDUnet, SURFnet and PIONIER. Joint operation procedures of this f-PoP are being tested.

**WHEN**

Hamburg f-POP has been researched during GÉANT 3 project within JRA1 T3. F-PoP pilot has been established in Year 3 of the project, in 2012.

**HOW CAN I JOIN?**

More networks can join the federated PoP in Hamburg, for example through one of the participating NRENs or leased capacity. Contact your NREN for getting a circuit to your research peers.

Contact federated PoP in Hamburg team at: hamburg-fpop@lists.man.poznan.pl

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**Figure 1:** Hamburg federated PoP pilot network scheme: SURFnet, PIONIER/PSNC and NORDUnet testbeds are interconnected.

**Figure 2:** Federated network architecture for Hamburg federated PoP pilot.