

AutoGOLE Networks Status Report

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Automated GOLE Fabric



AutoGOLE

- **AutoGOLE fabric is capable of delivering dynamic network services between GOLEs and networks**
 - Based on NSI Connection Service v2 and TLS
 - Using DDS service between aggregators
 - Used for projects
 - FELIX consortium, 2015
 - Open Cloud eXchange (OCX) by GÉANT
 - SC'13 and SC'14 'Portable cloud' by JGN-X
 - NRM with OpenFlow underneath by iCAIR
 - UltraGrid by CESNET
 - NEXPReS by JIVE

Work items 2015

- **I. Monitoring system for fault finding and troubleshooting**
 - AutoGOLE Dashboard
- **II. Supporting LHC Sites**
 - Supporting LHC sites that are connecting to the AutoGOLE
- **III. More redundant control plane**
 - Forwarding requests to another aggregator if a certain uPA cannot be reached

Brief updates by networks

- ESnet
- Internet2 (slides in other presentation)
- NORDUnet (slides in other presentation)
- SURFnet (next slide)

SURFnet & NetherLight

- In process of contract for development of a first prototype of the AutoGOLE Dashboard
- Setup 100G interconnect to ESnet's EEX in Amsterdam for dynamic circuits
- Facilitated two projects over the past weeks:
 - 'SURFsara-BNL' for LHCONE':
 - Brookhaven connects to ESnet and then through EEX to NetherLight
 - SURFsara connects to NetherLight via SURFnet
 - FELIX

Example: FELIX (Japan - Poland)

