



Detailed Components Deployment and Configuration Adapter (DCA)

SYNELIXIS



What is DCA all about?



❑ **Deployment and Configuration Adapter (DCA)** is a XiFi component offering to the XiFi infrastructure owners and application providers a single point of deploying and monitoring of VM/GE instances in the XiFi federation.

❑ DCA defines a RESTful API (<http://docs.dca.apiary.io/>) for providing per XiFi node and for the complete XiFi infrastructure federation:

- ❑ Local/Global view of the available GE images
- ❑ Local/Global view of the launched VMs/GEs
- ❑ Execution of complex queries on GE instances
- ❑ Simple deployment/instantiation of new VMs/GEs
- ❑ Batch deployment/instantiation of new VMs/GEs

❑ **Major Features:**

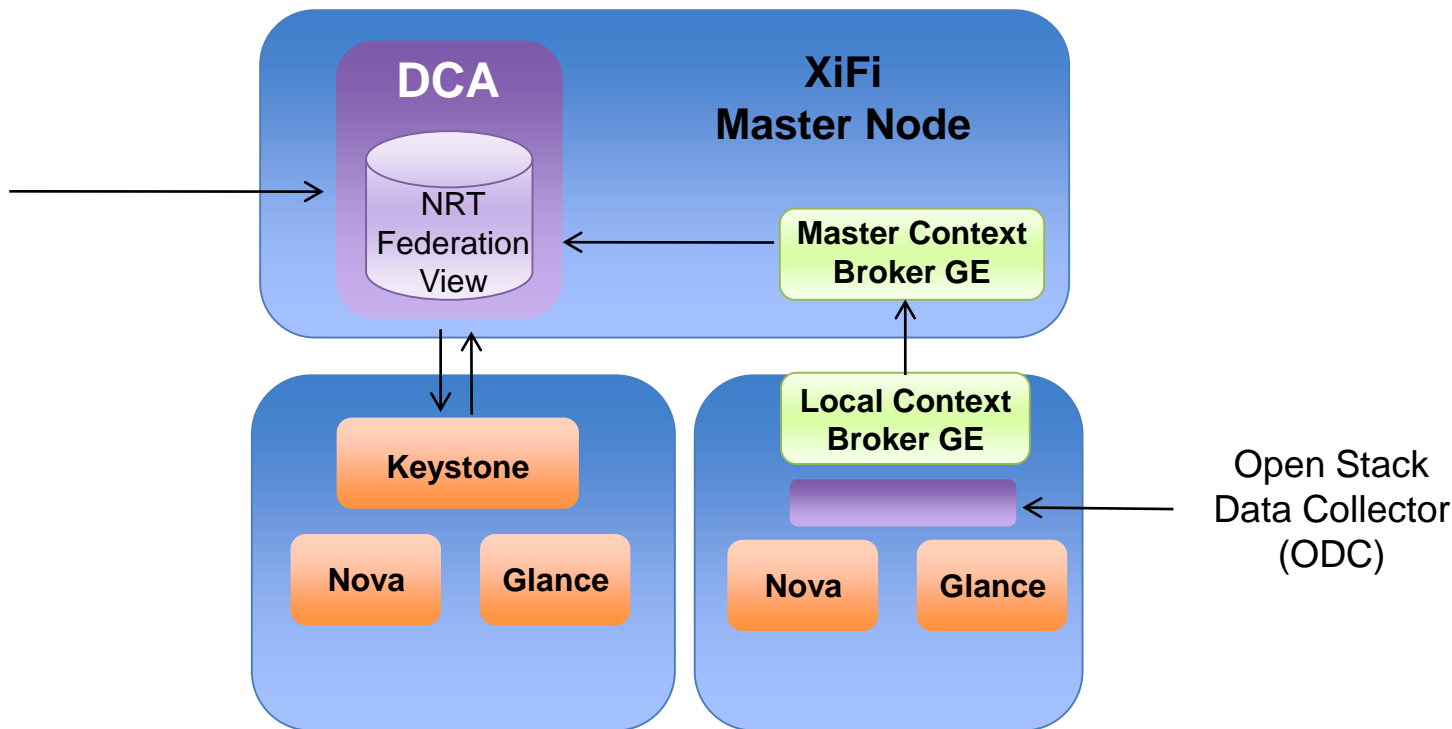
- ❑ Mapping between GEs name, image reference and nid
- ❑ Hide federation complexity due to multiple XiFi nodes
- ❑ NRT view of the federation status to support fast responses and scalability
- ❑ Flexible security per site to support different operators' policies

❑ **Added value:** A simple, smooth and fast looking-glass/control component to support FI PPP projects.

□ DCA functionality and related information can be found in <http://wiki.fi-xifi.eu/Xifi:Wp3:Components:DCA>. In brief:

- Persistency of data related to the deployment and configuration of GEs
- RESTful API for queries on GE instances: docs.dca.apiary.io
- Preparatory work on the hardware requirements for GE deployment
- Already available for testing and use in Trento and SYN cloud environment
- Gather data from 6 nodes (Trento, Berlin, Lannion, Waterford, fi-lab (Spain), testbed)
- In contact with ATOS for API extension

High-level architecture



Thank you for your attention!

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