Usage scenario and Testbed architecture

Demo Scenario: Service Composition, Deployment and Operation

ESB-based Services Composition platform for Cloud PaaS

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Paas Multilayer Infrastructure stack

Architectural Framework for provisioning Infrastructure Services On-Demand (as Cloud IaaS) includes the following components:

- Composable Services Architecture (CSA)
- Service Delivery Framework (SDF) that defines the services provisioning workflow and supporting infrastructure services
- Infrastructure Services Modelling Framework (SMF)
- Security Architecture for dynamically provisioned infrastructure security services and trust management

Implementation details:
- Fuse ESB (Servicemix): service integration and deployment environment
- Fuse Message Broker: connecting message brokers in intra-domains and inter-domains
- Fuse Mediation Router: configurable message routes for composable services
- Java OSGi Bundles: service packaging and deploying

Future Research and developments:
- Extension to open ESB based Cloud PaaS development platform and environment
- Extension to and integration with the GEMBus/GEANT3 Composable Services testbed
- Integration with the GEYSERS Infrastructure Services Virtualisation testbed
- Creating testbeds for dynamically provisioned infrastructure security services

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Contributing projects:
GEYSERS (FP7/ICT-248657) – www.geysers.eu
GEANT3 (FP7/ICT-238875) – www.geant.net

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