Broker@Cloud: Enabling Continuous Quality Assurance and Optimization in Future Enterprise Cloud Service Brokers
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Brokerage Framework

− Service Lifecycle Process
− Requirements and derived Capabilities
− Minimal Cloud Service Broker (CSB) Model
− CSB platform technical reference architecture
− 2-layer framework architecture for capabilities and mechanisms
− Framework API specifications
− Platform-neutral data exchange based on Linked USDL http://www.linked-usdl.org/

4 Mechanisms

− Policy Completeness Compliance Checking (SC³)
− Failure Prevention & Recovery: Extended DiVA Engine
− Optimization: Preference-based cLoud Service Recommender (PuLSaR)
− Verification and Testing Tool Suite

2 Industrial Showcases

− CAS SmartDesign App Store
− ORBI Brokerage platform
Software offered as Open Source software under the Apache Open Source License, v2.0

USDL (Unified Service Description Language) - Linked USDL

*Platform-neutral data exchange* based on Linked USDL

Two cloud service brokerage specific extensions developed:

- **Linked USDL Preferences** enabling expression of consumer preferences in Linked USDL
- **Linked USDL Testing** enabling classification and binding of testing methods and models into Linked USDL service descriptions.

Under development

- **Graphical Open Source Linked USDL Editors** in HTML5
- **User Guide**

The methodology, specs and their usage have been published and presented in a number of scientific conferences & workshops as well as in internal workshops of the industrial project partners.