

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 cCloud 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

<http://www.linked-usdl.org/> <https://github.com/linkedin-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.