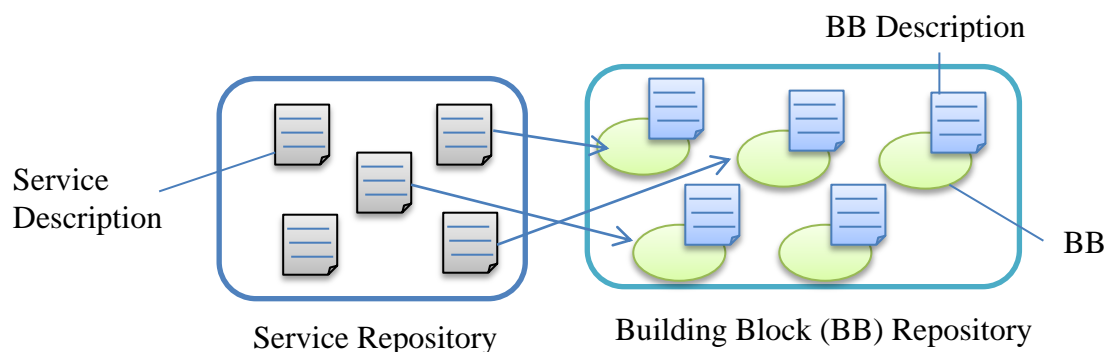


Diploma-Thesis / Master-Thesis

Communication Services Description for the Future Network Architectures

Topic

In the future network architectures, it is expected that the networks will offer a large number of different types of communication services. A clear and meaningful description of those services is required for their dynamic selection and composition. The purpose of this thesis is to provide a description language so that every types of communication service can be described in a generic way.



Goal of the Thesis

- Provide an overview of current communication services and their dependencies
- Briefly explain current description languages for describing those services
- Compare those description languages
- Describe their limitations
- Tackle the problems of current description languages and provide a language which not only solves the problem but also suitable for dynamic composition.
- Evaluate the description language in terms of dynamic composition.

Requirements

- Bachelor resp. Vordiplom
- Basics of Networking and Service Oriented Architecture (SOA)
- Skill in XML is required. Experience in Ontology and Java is an added advantage.
- Analytical skills

Key words: SOA, Networking services, Future Internet, Service Description

Theoretical (Analytical)

Empirical (Simulation)

Practical (Implementation)

Literature