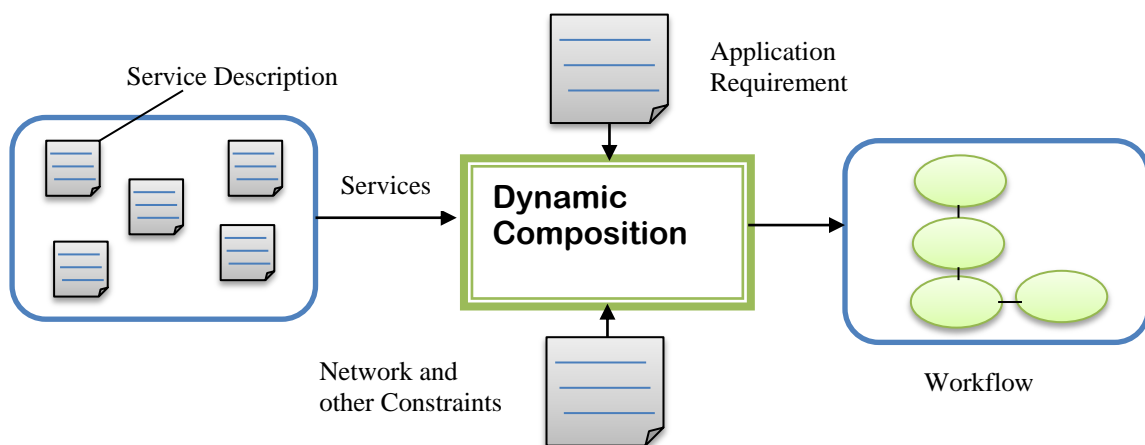


# Diploma-Thesis / Master-Thesis

## Dynamic Composition of Communication Services in the Future Network Architectures

### Topic

Today the composition of services is done statically. Several works have been done where researchers have been trying for automatic or dynamic composition. But, they concentrated on protocols rather than services. Moreover, the dependencies among the protocols are hard coded which makes the architecture inflexible. This thesis will propose a mechanism for dynamic composition of services.



### Goal of the Thesis

- Review existing automatic (dynamic) composition mechanisms
- Compare those mechanisms
- Describe the drawbacks of those mechanisms.
- Analyse the problems using scientific methods
- Make flowcharts/algorithms that tackle the problems of current dynamic composition mechanisms.
- Evaluate the solution in our service oriented network architecture framework.

### 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 Composition

Theoretical (Analytical)

Empirical (Simulation)

Practical (Implementation)

Literature