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# Deployment Assistant
# for Plux

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The plug-in framework Plux enables developers to build component-based applications. Plux dynamically composes applications at run time. A specific Plux application consists of a set of components, contracts, and libraries. Every component in an application has dependencies to contracts and libraries; and can be extended with other components.

For large applications that consist of many components, understanding the interdependencies can become a challenge. The goal of this master thesis is to develop a tool that supports a deployment engineer in the assembly of required parts, analysis of dependencies, and testing.

The tool must be able to:

1) Analyze dependencies between components, libraries, and contracts.
2) Differentiate between required and optional parts.
3) Store the result of an analysis in a form that can be further processed with other tools.
4) Enable testing of a deployed application with the testing tool Actor.

The tool must be created in C#. The work and the code must be discussed on a regular basis with the supervisor.

Supervisors: Dr. Günther Blaschek, DI Markus Löberbauer
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