

Abstract

This Master's thesis is the result of a project performed at Incomit AB in Karlstad. The content describes the requirements gathering for, and the development of, a Software Development Kit (SDK) for telecom service creation. The SDK facilitates the development of network plug-ins that enable new protocol specific behaviour in the Incomit Application Hub. As part of the requirement gathering for the SDK, two surveys were performed among the developers at Incomit. The first survey regarded experiences with development environments and the second survey regarded their opinion of development environment features.

The results from the two surveys and requirements from an old requirement specification were used as a base for creating the requirement specification for the SDK.

The SDK consists of interface documentation and a utility that generates compilable Java code in order to make it easier for the developer of the network plug-in to concentrate on protocol specific implementation. The code generation of the SDK has a graphical user interface implemented as a plug-in in the eclipse platform.

The SDK works well in a Windows XP environment. The SDK has very loosely coupled parts which makes it ideal for extension and modification which was part of the requirements.