

Kurzfassung der Semesterarbeit

Abteilung	Informatik
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Diplomjahr	2003
Titel der Diplomarbeit	IPv6 for 3G Mobile Networks
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The "kamril" project can be divided into three sub projects. In the beginning an IPv6 environment was built up and connected to 6Bone via SWITCH. Afterwards a SIP proxy was installed on a server in the IPv6 network. Last but not least, to test the correct functioning of the test network, the small test tool dXPe was developed. The tool however is more than just a simple test application; it also demonstrates the benefits of SIP. SIP was used for the implementation of the presence management, the instant messaging and the establishing of connections for the dXPe sessions. Furthermore it also shows the advantages of IPv6, with which, because of the absence of NAT, the implementation of peer-to-peer communication is trivial.

The tool dXPe consists out of the following components:

- *Chat* Used for transmitting short messages between buddies.
- *Buddy List* Displays the presences status of the buddies entered in the list.
- *Distributed Editor* Used for working (editing) simultaneously, with other participants of the session, on the same text.

The implementation of dXPe was made with Java, so that the application can be run on Linux as well as Windows.