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VoIP interface

In this thesis a VoIP interface is being developed which controls two relais by SIP calls and is configured by a simple web interface implemented on the embedded web server XPort Pro manufactured by Lantronix. The commands are extracted from SIP packets which will finally trigger the actions. In this thesis a developer board is used with two LEDs simulating the physical properties of a relais. To handle the SIP packets from the VoIP interface the PJSIP stack is used. The VoIP interface is set up to be easily extensible.

While porting the beforementioned PJSIP stack to the embedded web server, severe problems arised. These Problems rendered it impossible to get a functioning version running on the target system based upon uClinux, but a functioning version is available on a full featured desktop linux computer.

The user is able to configure the login and action parameters on the XPort Pro board for example to switch the state of a output by every call, depending on the caller id and many more.

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The embedded webserver XPort Pro and a VoIP phone.