



Odin TeleSystems Inc.

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The OtxSIP library is a software library that implements the Session Initiation Protocol (SIP) protocol for the industry award-winning Odin Telecom framework (OTX) hardware. The library is based on the RFC 3261 specifications.

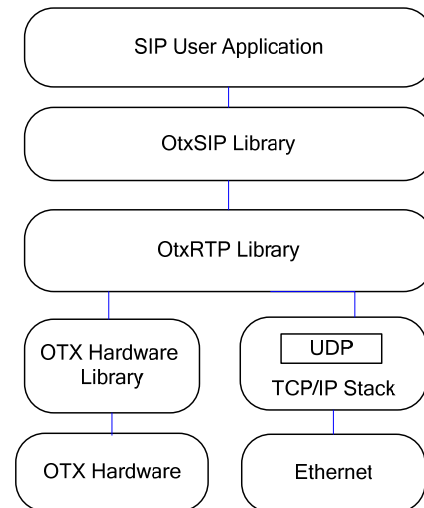
SIP is widely used by telephony services such as multimedia conferences and many other real-time and person-to-person communication services. It is also adopted as the signal communication protocol of VoIP and 3GPP.

The OtxSIP library has a set of functions to accomplish a wide variety of SIP related tasks. An example of such tasks include enabling internet endpoints to negotiate the character of a shared multimedia session. Other functions could create, modify or terminate a multimedia session which works independently of any underlying transport protocols.

The OtxSIP library is supported by multiple types of Odin's OTX-Plus PCI/PCIe and ExpressCard/54 adapter boards. It is also supported by the Odin's Alvis-CSI stand-alone desktop and rack-mountable family of products.

The OtxSIP library runs on Win32, Linux and Davinci (ARM) systems.

OtxSIP Library



Feature Highlights

- Creates SIP logical devices like SIP gateways, SIP endpoints, SIP registrars or others.
- Gets call information of a VoIP logical device.
- Connects to SIP logical devices.
- Loads RTP profile to a VoIP logical device.
- Adds and removes a codec to a SIP logical device profile.
- Sends or receives encoded voice data for a specific call.
- Makes and clears call throws to a VoIP logical device.
- Logging of sessions for future analysis.
- Answers a call that is received by a VoIP logical device.
- The package includes demos for the Win32, Linux and Davinci (ARM).
- Provides ringing notification when a call is received by a VoIP logical device.

OtxSIP Library Product Brief

Hardware and Software Specifications

The library is supported by the following operating systems platforms:

- Win32, Win64 (Windows 2000/ XP/ 2003 Server/Vista)
- Linux (x86, ARM Davinci)

The library can be configured to run with the following Odin TeleSystems' board combinations:

- Thor-2-ExpressCard for 2 full T1 or E1 spans.
- Thor-4-ExpressCard for 4 unidirectional T1 or E1 spans.
- Thor-2-PCI-Plus for 2 full T1 or E1 spans.
- Thor-2-PCI-Express for 2 full T1 or E1 spans.
- Thor-8-PCI-Plus for 8 full T1 or E1 spans.
- Sleipnir-1-PCI-Plus for 1 full T1 or E1 spans.
- Gimle-16-PCI-Plus for 16 unidirectional E1 spans.
- Sleipnir-1-PC104-Plus for 1 full T1 or E1 spans.
- Alvis-ASM.

Features

- Creates session-oriented connections between two or more endpoints in an IP network.
- Initiates, terminates and modifies sessions.
- Based on RFC standard (RFC 3261) from the Internet Engineering Task Force (IETF).
- Flexible, open, extensible, and fits easily in different architectures and deployment scenarios (e.g. Web-Like Communications).
- Enabling of multi-user sessions regardless of media content.
- Support for multi-party.
- Negotiates sessions so that all participants can agree on and modify session features.
- Provides the ability to add, drop or transfer users.
- Provides text-based messages which are easy to read and debug.
- Transport layer independent.
- Uses the User Datagram Protocol (UDP) as well as the Transmission Control Protocol (TCP) to flexibly connecting users independent of the underlying infrastructure.

Other features

- Support for multiple channels (selectable timeslots of the T1 or E1 span)
- Low CPU load consumption per channel.

Ordering Information

Product Name / Product Category

- OtxSIP library / SMA-1032-1

Contact Information

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