SIP Basis Foundation SDK

The complete, correct, and current SIP stack from the people who *know* SIP

Estacado Systems, the SIP experts, brings you the SIP Basis Foundation SDK, a feature rich, robust, interoperable SIP stack harnessing the latest protocol and software advances. Delivering comprehensive protocol support, an easy to use interface, and outstanding performance, the SIP Basis Foundation SDK enables rapid deployment of your SIP based application.

Standards and Interoperability

The Estacado SIP Basis Foundation SDK is based on a widely deployed, robust, feature rich open source project with contributors from Estacado and the SIP standards community. The Estacado SIP Basis Foundation SDK is kept compliant with the latest IETF RFCs and drafts. Estacado is active in the IETF writing and contributing to these standards. This significant expertise is applied directly to the SIP Basis Foundation SDK.

- Current and correct SIP implementation
- Full support for all relevant SIP and IMS standards
- Interoperability testing at SIPIt since 2002
- Direct involvement by IETF standards writers
- The reference SIP implementation for security

Features

- Support for UDP, TCP, and TLS transports
- Support for IMS specific headers and signaling and optional SigComp with the SIP Basis Compression Library
- Developer friendly C++ interface
- Expandible with the Estacado SIP Basis Session Manager Framework for intelligent control of dialogs and usages with an interface that makes application development easy
- Further expandible with the Estacado SIP Basis Change Agent Framework for comprehensive support of SIP events and SIMPLE
- Complete searchable documentation in on-line and printer friendly formats
- Supports Fedora™ Core 4 Linux, Fedora™ Core 6 Linux, Red Hat Enterprise Linux 4, FreeBSD, OS X, and others upon request

Performance, Robustness, Flexibility

Estacado SIP Basis Foundation SDK was carefully designed from the start to be efficient without sacrificing stability or extensibility. A modern C++ interface and extensive documentation provide developers everything they need for rapid integration. The best software practices have been brought to bear to produce the easily extensible, scalable, and robust software that is the Estacado SIP Basis Foundation SDK.

- Makes efficient use of CPU resources
- Small memory footprint reduces server costs
- Suitable for server and client applications
- In-house and third party based testing is performed on a regular basis

Extensibility and Customization

SIP Basis Foundation SDK offers comprehensive SIP support for transaction stateful applications. For the most advanced SIP dialog management available, SIP Basis Session Manager Framework integrates directly with SIP Basis Foundation SDK providing unparalleled ease of integration. SIP events and SIMPLE applications can be rapidly developed using the SIP Basis Change Agent Framework on top of the flexible SIP Basis Session Manager Framework.

SIP Basis Foundation SDK was architected to support flexible behavior. Whatever your requirements, we can help you with our staff of some of the best engineers in the business.

Estacado Systems also offers comprehensive consulting, development, and training with extensive expertise in SIP and networking.

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Comprehensive Standards Support

RFC 3261	SIP: Session Initiation Protocol
RFC 3262	Reliability of Provisional Responses in Session Initiation Protocol (SIP)
RFC 3263	Session Initiation Protocol (SIP): Locating SIP Servers
RFC 3264	An Offer/Answer Model with Session Description Protocol (SDP)
RFC 3265	Session Initiation Protocol (SIP)-Specific Event Notification
RFC 3325	Private Extensions to the Session Initiation Protocol (SIP) for Asserted Identity within Trusted Networks
RFC 1847	Security Multiparts for MIME: Multipart/Signed and Multipart/Encrypted
RFC 2045	Multipurpose Internet Mail Extensions (MIME) Part One: Format of Internet Message Bodies
RFC 2046	Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types
RFC 2181	Clarifications to the DNS Specification
RFC 2617	HTTP Authentication: Basic and Digest Access Authentication
RFC 2633	S/MIME Version 3 Message Specification
RFC 2782	A DNS RR for specifying the location of services (DNS SRV)
RFC 2806	URLs for Telephone Calls
RFC 2915	The Naming Authority Pointer (NAPTR) DNS Resource Record
RFC 2976	The SIP INFO Method
RFC 3401	Dynamic Delegation Discovery System (DDDS) Part One: The Comprehensive DDDS
RFC 3402	Dynamic Delegation Discovery System (DDDS) Part Two: The Algorithm
RFC 3403	Dynamic Delegation Discovery System (DDDS) Part Three: The Domain Name System (DNS) Database
RFC 3404	Dynamic Delegation Discovery System (DDDS) Part Four: The Uniform Resource Identifiers (URI) Resolution Application
RFC 3489	STUN - Simple Traversal of User Datagram Protocol (UDP) Through Network Address Translators (NATs)
RFC 3268	Advanced Encryption Standard (AES) Ciphersuites for Transport Layer Security (TLS)
RFC 3311	The Session Initiation Protocol (SIP) UPDATE Method
RFC 3313	Private Session Initiation Protocol (SIP) Extensions for Media Authorization
RFC 3323	A Privacy Mechanism for the Session Initiation Protocol (SIP)
RFC 3325	Private Extensions to the Session Initiation Protocol (SIP) for Asserted Identity within Trusted Networks
RFC 3326	The Reason Header Field for the Session Initiation Protocol (SIP)
RFC 3327	Session Initiation Protocol (SIP) Extension Header Field for Registering Non-Adjacent Contacts
RFC 3329	Security Mechanism Agreement for the Session Initiation Protocol (SIP)
RFC 3420	Internet Media Type message/sipfrag
RFC 3428	Session Initiation Protocol (SIP) Extension for Instant Messaging
RFC 3455	Private Header (P-Header) Extensions to the Session Initiation Protocol (SIP) for the 3rd-Generation Partnership Project (3GPP)
RFC 3515	The Session Initiation Protocol (SIP) Refer Method
RFC 3581	An Extension to the Session Initiation Protocol (SIP) for Symmetric Response Routing
RFC 3608	Session Initiation Protocol (SIP) Extension Header Field for Service Route Discovery During Registration
RFC 3764	enumservice registration for Session Initiation Protocol (SIP) Addresses-of-Record
RFC 3824	Using E.164 numbers with the Session Initiation Protocol (SIP)
RFC 3840	Indicating User Agent Capabilities in the Session Initiation Protocol (SIP)
RFC 3841	Caller Preferences for the Session Initiation Protocol (SIP)
RFC 3891	The Session Initiation Protocol (SIP) Replaces Header
RFC 3892	The Session Initiation Protocol (SIP) Referred-By Mechanism
RFC 3903	Session Initiation Protocol (SIP) Extension for Event State Publication
RFC 3911	The Session Initiation Protocol (SIP) Join Header
RFC 3966	The tel URI for Telephone Numbers
RFC 4028	Session Timers in the Session Initiation Protocol (SIP)
RFC 4320	Actions Addressing Identified Issues with the Session Initiation Protocol's (SIP) Non-INVITE Transaction
RFC 4474	Enhancements for Authenticated Identity Management in the Session Initiation Protocol (SIP)
RFC 4483	A Mechanism for Content Indirection in Session Initiation Protocol (SIP) Messages
RFC 4508	Conveying Feature Tags with the Session Initiation Protocol (SIP) REFER Method
RFC 4538	Request Authorization through Dialog Identification in the Session Initiation Protocol (SIP)
draft-ietf-sip-gruu	Obtaining and Using Globally Routable User Agent (UA) URIs (GRUU) in the Session Initiation Protocol (SIP)

For More Information

To find out more about how Estacado SIP Basis Foundation SDK will answer your SIP needs, contact us at:

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We know the technology because we helped create it

www.estacado.net

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