Indigo SIP Server & SDK™

The industry's most comprehensive solution for building SIP infrastructure.

The Indigo SIP Server & SDK™ provides a complete framework for the development and deployment of all types of IP communication applications and services. The Indigo SIP Server itself is composed of three fundamental SIP servers: a SIP proxy server, a SIP redirect server and a SIP registrar server, each of them providing the most advanced features in the field. In addition, the Indigo SIP Server comes with a multi-level SDK that consists of a conveniently structured set of multi-level APIs that permit the custom development of advanced and innovative networks and services.

SIP Intro

SIP originated in the late 1996 where it used by the IETF for the distribution of multimedia content for IETF meetings, seminars and conferences. Because of its simplicity, power and extensibility, SIP was rapidly adopted for other uses across the IETF, most notably as a Voice over Internet Protocol (VoIP) standard. Today, SIP is considered as the emerging signaling standard for all IP communications with a real-time interactivity component such as VoIP, Instant Messaging, audio and video conferencing, e-learning, online gaming, etc.

SIP is used to establish, change and terminate sessions between one or more users in an IP-based network and is - as a part of the IETF standards process - modeled upon other Internet protocols such as SMTP and HTTP. This makes that SIP brings a new degree of scalability, interoperability and ease-of-building new services that is lacking in earlier, more telecom-centric protocols such as H.323.

SIP has gained broad industry acceptance and several industry leading companies such as Cisco, Microsoft, Ericsson, Nortel support the SIP standard.

The Indigo SIP Server & SDK™ is a core element for the delivery of next generation Internet communication applications and services. Products and applications that may benefit from the Indigo SIP Server & SDK™ are:

- Softswitches
- IP PBX
- Gateways
- Load Balancers
- Automated Call Distributors (ACD)
- Data/Voice/Video conferencing applications
- Advanced communication applications such as Unified Communications
- E-learning applications

Indigo SOFTWARE

Indigo IPcall™

An end-to-end solution for Internet Telephony Service Providers

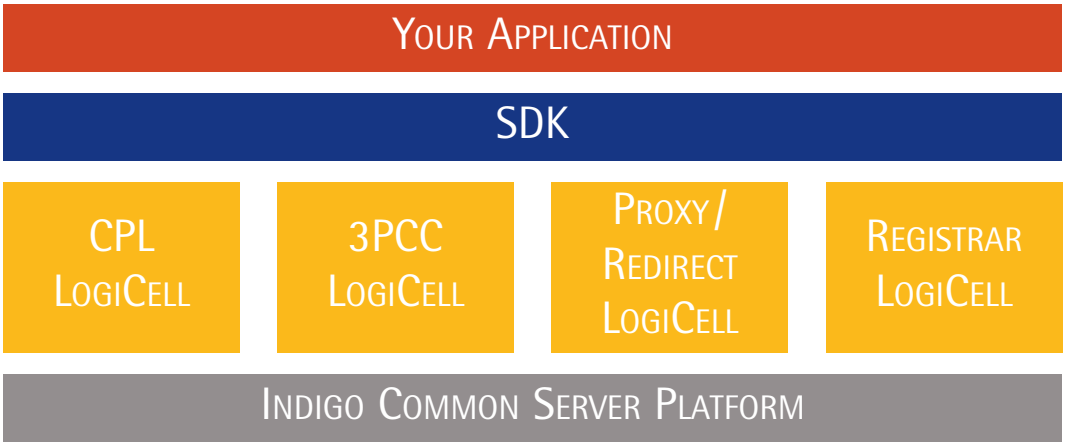
Built atop the Indigo SIP Server & SDK, the Indigo IPcall™ solution provides Internet Telephony Service Providers (ITSPs) a cost-effective SIP-based solution for offering residential/SOHO/small business IP telephony services. The solution features:

- CLASS 5 features such as CLIP & CLIR
- Dynamic XLM dial plan with API
- ADR/CDR generation
- Customizable user service management interface
- Regulatory requirements features, such as intercept and emergency services

Architecture

The Indigo SIP Server & SDK™ is the core building block of Indigo's product portfolio. The SIP Server & SDK™ introduces the unique combination of three ready-to-go servers, an application development framework and an application execution platform. The platform furthermore benefits from a highly modular architecture in terms of performance, flexibility and scalability and consists of the following parts:

- A SIP Proxy Server, a SIP Redirect Server and a SIP Registrar. Through its APIs, the server can be controlled to work as any of these components on a call-by-call basis;
- A standards-based 3rd Party Call Control module and a CPL server including a convenient CPL editor;
- A multi-level SDK allowing an application developer to invoke and control Proxy, Redirect and Registrar services from within an application;
- A service execution platform (Indigo Common Server Platform).



* LogiCell = High-level service logic component wrapped into a software module with a standardized, non-SIP-specific interface.

Features

- Compliance with SIP (RFC 3261 and RFC 3263)
- Compliance with SDP (RFC 2327 and RFC3264)
- Compliance with SIP 3PCC Internet-Draft (draft-ietf-sipping-3pcc-02.txt)
- Compliance with CPL Internet-Draft (draft-ietf-iptel-cpl-06.txt)
- Proxy
  - Forwarding of unknown SIP requests
  - Criteria-based request checking: Max forward-Expire
  - Message forwarding to non-sip contact URIs
  - Loop detection
- Routing Logic
  - Static Routes
  - Location Service
  - ENUM
  - DNS SRV
  - DNS A-record
  - LDAP
- Call Forwarding
  - Busy
  - No answer
  - Unavailable
  - Unconditional
- Forking
  - Sequential
  - Parallel
  - Recursive
  - Request merging
- Registrar
  - SIP or non-SIP URL schemes (e.g. tel:, smtp:, http:, rtsp:, ...)
  - CPL and presence information storage
  - Multiple contacts per address-of-record
  - Multicast registration
  - Multicast registrar discovery
- Transport modes
  - UDP
  - TCP
  - TLS
- Database interface
  - JDBC
  - ODBC
  - DNS
  - ENUM
- Authentication & Security
  - Digest
  - TLS
- Other
  - Convenient web-based administration interface
  - Persistent TCP/TLS connection table for NAT/Firewall traversal
  - Multi-customer support on a single server
  - XML interface for configuration
  - Support for multiple NICs
  - Advanced SIPit tests compliance

Benefits

High-Performance

Platform flexibility as the Indigo SIP Server & SDK™ is entirely Java based

Proven compliance with standards as Indigo is a long-standing participant of SIPit interoperability events

High-quality technical support, maintenance and product training

Professional Services for high value integration, customization, and consulting

Fault-Tolerant/High-Availability features built-in

Platforms supported

Windows Platform:

- Pentium III 350, 512 MB RAM
- Windows OS (win32):
  - Microsoft XP Professional Edition
  - Windows NT4
  - Windows 2000

SUN Platform

- UltraSPARC II 400 Mhz, 512 MB RAM
- Unix Sun Solaris 7,8

Linux Platform

- Pentium III 350, 512 MB RAM
- Linux Kernel 2.2

The Indigo product portfolio also includes:

Indigo SIP Foundation Class™

The industry 's most advanced and flexible SIP development framework consisting of multi-platform Java APIs that prodives a strong basis for the development of multimedia SIP-based client and server applications.

Indigo Presence Server & SDK™

The first Java-based, full-fledged presence solution on the market. The Indigo Presence Server & SDK™ is the ultimate instrument to make the most of users' presence information in any type of Internet or telecom applications.

Indigo Communications Server & SDK™

The Indigo Communications Server & SDK™ is a SIP/SIMPLE application framework designed for the development and delivery of real-time communication applications and services. Combining the power of the Indigo SIP server with the rich feature set of the Indigo presence server and their respective SDKs, the Indigo Communications Server & SDK™ enables rapid deployment of innovative real time communication services.

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