

Indigo Presence Server & SDK™

The first full-fledged standards-based presence solution on the market.

As the first full-fledged Java-based presence solution on the market, the Indigo Presence Server & SDK™ is the ultimate instrument to make users' presence information available in any type of enterprise or telecom application. The Indigo Presence Server & SDK™ is based on SIMPLE (SIP for Instant Messaging and Presence Leveraging Extensions) and therefore finally furnishes the communications industry with a standards-based technology for the popular instant messaging (IM) services as well as the forthcoming instant voice, instant video and instant conferencing applications.

ABOUT PRESENCE

"As exemplified by AOL's Instant Messenger and its amazing popularity, knowing a remote friend or colleague is "present" provides an extremely powerful communication metaphor. We believe that presence awareness will become an integral part of all future communication systems and will not be used just for social, entertainment purpose. Find-me, Follow-me services will leverage presence awareness in order to connect users no matter where they are and no matter what communication devices they have available. [...]"
~ "Presence Awareness for Future Telecommunication Systems", Avaya Research Labs.

[...] IM is just the first killer app of presence awareness, and presence awareness will continue beyond person to person text messaging to include linking people to applications and applications to applications [...]

~ "Presence pitched as killer corporate app", InfoWorld September 2002.

The Indigo Presence Server & SDK is the ultimate base for creating services and applications that capitalize on presence or context information. The benefits are obvious in countless instances where the up-to-the minute knowledge of users' status can be leveraged. For example:

- Secure Corporate Instant Messaging within a corporate network using Microsoft Windows® Messenger or any other SIP compliant IM client;
- Automatic conference set up as soon as every participant is available and ready;
- Optimized call center operations to intelligently route multimedia calls to available operators based on presence information and skills;
- Presence - aware call routing for
 - Intelligent Networks (IN) services
 - Find-Me, Follow-Me services
 - Alert notification delivery
- Match engine, which combines presence with keywords or context information to swiftly locate the right person at the right time.





Architecture

As Indigo strongly believes that an unstoppable trend is growing towards ubiquitous computing in which the users' presence and contextual information will play an important role, the Indigo Presence Server & SDK™ is one of the key building blocks of Indigo's product portfolio. The Indigo Presence Server & SDK™ introduces the unique combination of standards compliant presence server, an IM server and a rich multi-level SDK. The platform furthermore benefits from a highly modular architecture in terms of performance, flexibility and scalability and consists of the following parts:

- A full-fledged presence server compliant with the IETF SIMPLE (SIP for Instant Messaging and Presence Leveraging Extensions) framework and fully interoperable with Microsoft's Windows® Messenger;
- A 3rd Party Call Control module and an IM server with API that naturally complement the Indigo Presence Server;
- A multi-level SDK allowing an application developer to easily create services and applications that capitalizes on published presence information;
- A service execution platform (Indigo Common Server Platform).

YOUR APPLICATION

SDK

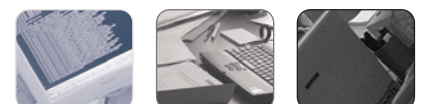
3PCC
LogiCell

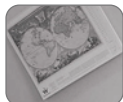
PRESENCE
LogiCell

IM
LogiCell

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 SIMPLE extensions for Presence and Instant Messaging (RFC3265, RFC3428 and Internet Draft Presence-07)
- Compliance with SIP (RFC 3261 and RFC 3263)
- Compliance with SIP Events (RFC 3265)
- Compliance with SDP (RFC 2327 and RFC3264)
- Compliance with SIP 3PCC Internet-Draft (draft-ietf-sipping-3pcc-02.txt)
- Presence Service
 - Always-on subscription management
 - Presence update notification relay
 - User and buddy lists
 - Enforce complex authorization policies
 - Centralize user presence information
 - Multi-site operation
 - Inter-domain operation
 - Network side management of access lists.
- Server modes
 - Centralized server mode (centralized presence information storage)
 - Migration server mode (client side presence management)
- Proxy Service
 - Stateless proxy service proxying SIMPLE messages (SUBSCRIBE, NOTIFY, MESSAGE).
 - Loop detection
- Message Routing Logic
 - Static Routes
 - DNS SRV
 - Location Service
 - ENUM
 - DNS A-record
 - LDAP
- Registrar
 - Presence information storage
 - SIP or non-SIP URL schemes (e.g. tel:, smtp:, http:, rtsp:, ...)
 - 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
 - Compatible with SIMPLE clients
 - Compatible with all Microsoft RTC SDK clients such as Microsoft Windows® Messenger
 - CPIM compliant XML-formatted presence documents
 - Logging API for custom CDR and accounting information generation
 - Convenient web-based administration interface
 - Persistent TCP/TLS connection table for NAT/Firewall traversal
 - Multi-customer support on a single server
 - Support for multiple NICs
 - Advanced SIPit tests compliance





BENEFITS

High-Performance

Flexible Integration with existing networks and applications to create new or enhanced services and solutions.

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

Extensibility using Java and scripting

High-quality technical support, maintenance and product training

Professional Services for high value integration, customization, and consulting

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 providing a strong basis for the development of multimedia SIP-based client and server applications.

Indigo SIP Server & SDK™

A robust and comprehensible SIP server complemented by a high performance API toolkit for instant creation of communication applications. This powerful SIP solution pack forms a strong basis for architecting SIP networks and services.

Indigo Communications Server & SDK™

The Indigo Communications Server & SDK™ is an 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™ reduces development costs and enables rapid deployment of innovative real time communication services.

Deliverables

A comprehensive documentation set containing:

- Code samples
- HTML based reference guide
- Developer's guide

Platforms supported

Intel Platform

- Pentium III 350, 512 MB RAM
- OS
 - Microsoft Windows NT4/2000/XP
 - Linux Kernel 2.2 and higher

UNIX Platform

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

* All platforms require J2SE 1.3. and higher

** Please enquire about support for other platforms and operating systems that may have become available

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