

SIMPLE Client Add-On

A RADVISION SIP Developer Suite Add-on for Presence and Instant Messaging

The RADVISION SIMPLE Client Add-on Module provides the functionality required to develop Presence and Instant Messaging applications. This important development tool applies the Session Initiation Protocol (SIP, RFC 3261) to the Instant Messaging and Presence (IMP) services. Since IMS and the services SIP is used for share much in common, and the fact that it is a mature and widely-deployed protocol, the adaptation of SIP for IMP is a natural choice. RADVISION's SIMPLE Client Add-on implements logic/information layer for PUA (Presence User Agent) and serves as a Presence Engine for SIP/IMS SIP applications.

This SIMPLE-Client provides an abstraction of the signaling and procedures stated by the standard, and enables rapid and interoperable application development. This SIMPLE Client Add-on can be integrated in IMS networks or in other contexts. To develop SIMPLE-Client applications, the SIMPLE-Client should be placed on top of the SIP Stack.

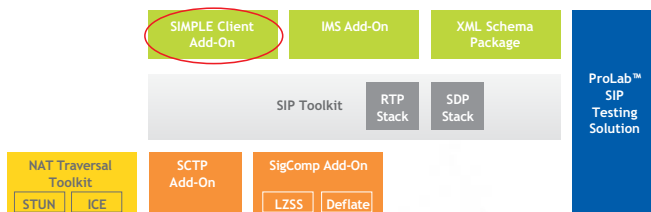
The RADVISION SIMPLE-Client Add-on Module is part of RADVISION's SIP Developer Suite, a combination of SIP-related toolkits, add-ons, and products that provide all the capabilities a SIP network-element developer needs.

SIMPLE-Client Add-on Highlights

- Support for the relevant IETF, 3GPP and OMA specifications for presence and Instant Messaging
- Easy to use APIs, with automatic behavior modes
- Ability to manually make ad hoc changes to default behavior
- Establish presence subscriptions for remote parties and maintain remote party presence information by analyzing incoming event notifications
- Establish WINFO subscriptions and maintain a "WINFO derived" buddy list, by analyzing incoming WINFO notifications
- Maintain and publish a local presence state

Operating System Support

- Windows® (2000, 2003, XP, Vista)
- Windows® Mobile 6
- Linux
- Embedded Linux
- Nucleus
- Solaris
- VxWorks



What is SIMPLE?

The telecommunication vision of today is rapidly moving towards next generation networks (NGN) that offer ubiquitous, converged services over converged networks. Convergence enables a single network to provide comprehensive data communication, video, voice, gaming, and Internet access services to subscribers, anywhere, anytime. These converged services may require the exchange of presence status and content between a set of participants in real-time. This is enabled by the SIMPLE (SIP for Instant Messaging and Presence Leveraging Extensions) set of specifications.

SIMPLE is an IETF working group that focuses on the application of SIP messages for the benefit of instant messaging and presence services. Presence and Instant Messaging, as specified by the SIMPLE working group, has been adopted as part of the IMS architecture and by popular messenger services. Both the 3GPP (3rd Generation Partnership Project) and OMA (Open Mobile Alliance) are currently using the specifications of the IETF SIMPLE as part of their Presence and Instant Messaging services.

The services made possible using SIMPLE, Presence and Instant Messaging, enable real-time communication and allow easy collaboration that is much closer to genuine conversation than e-mail. In contrast to e-mail or traditional dialing, the parties know in advance whether a peer is available or not via presence information. On the other hand, the parties are not obligated to respond to incoming messages. Presence and Instant Messaging are important building blocks for other IMS standards.

Presence

Presence service is at the heart of SIMPLE. This events-based application uses the SIP SUBSCRIBE/NOTIFY mechanism. As such, it offers a higher level of sophistication than regular communications. Presence service enables users and applications to offer status indicators that convey the ability and willingness to communicate. This status information is aggregated through Presence Servers to interested peers, enabling users to make a decision on whether to communicate with a given user and how.

Instant Messaging

Instant Messaging service enables sending text-based messages or multimedia messages to recipients. Instant Messaging differs from e-mail in that it takes place in real-time. Instant Messaging is usually combined with Presence, indicating whether contacts are currently online and available to chat.

Standardization

The standardization of SIMPLE is quite complex, and involves a number of standardization organizations. These include:

- The Internet Engineering Task Force (IETF)
Responsible for the standardization of SIP and its extensions.
- The 3GPP
Responsible for IMS standardization in Europe and in those parts of the world that use WCDMA technology.
- The 3GPP2
Responsible for Multi-Media Domain (MMD) standards in North America and in those parts of the world that use CDMA2000 technology.
- The Open Mobile Alliance (OMA)
Responsible for defining services implemented over IMS architecture. OMA SIMPLE (also known as OMA SIMPLE Presence and OMA SIMPLE IM) covers Presence and IM.

About RADVISION

RADVISION (NASDAQ: RVSN) is the industry's leading provider of market-proven products and technologies for unified visual communications over IP and 3G networks. With its complete set of standards-based video networking infrastructure and developer toolkits for voice, video, data and wireless communications, RADVISION is driving the unified communications evolution by combining the power of video, voice, data and wireless - for high definition video conferencing systems, innovative converged mobile services, and highly scalable video-enabled desktop platforms on IP, 3G and emerging next-generation IMS networks. For more information about RADVISION, visit www.radvision.com

USA/Americas
T +1 201 689 6300
F +1 201 689 6301
infoUSA@radvision.com

APAC
T +852 3472 4388
F +852 2801 4071
infoAPAC@radvision.com

EMEA
T +44 (0) 20 8757 8817
F +44 (0) 20 8757 8818
infoUK@radvision.com