



Creacode SIP Application Server®

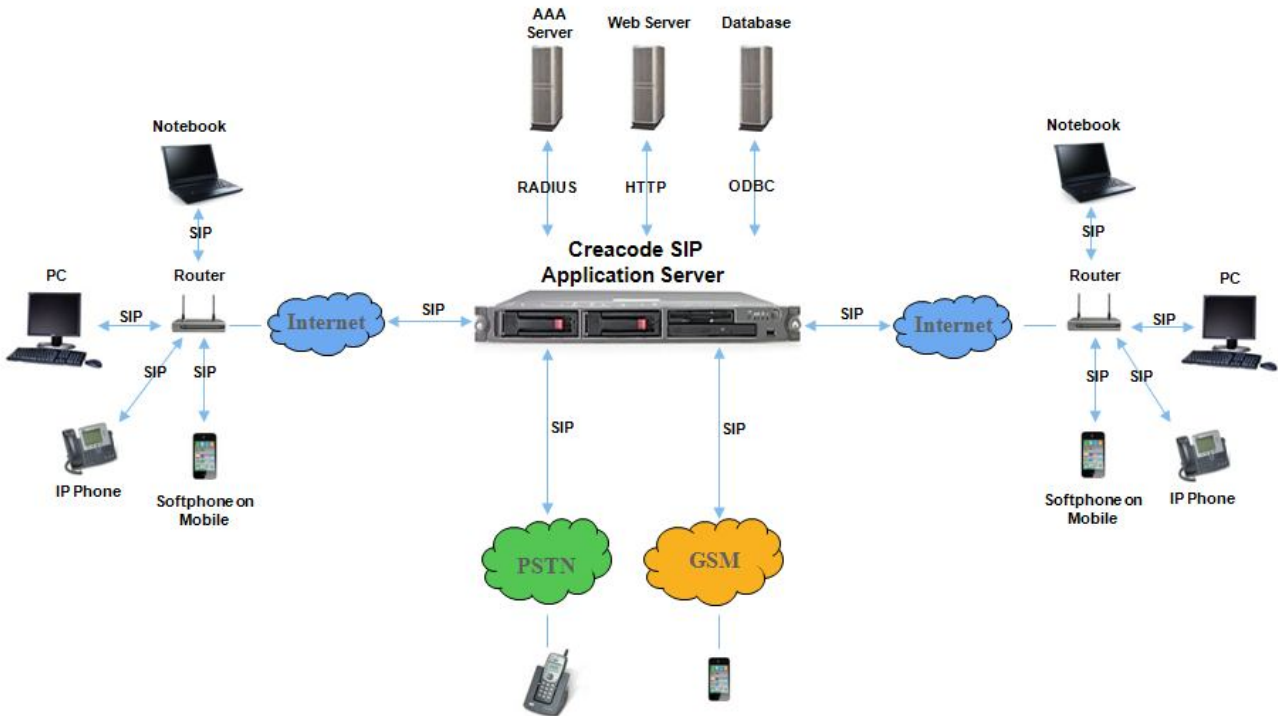
Product Overview

Creacode SIP Application Server® is a professional software solution for service creation in the VoIP architecture. Speaks SIP directly with industry leading softswitches and gateways to provide call services such as prepaid/postpaid, broadband IP telephony or call center. The power of the solution means a company can create new applications or extend existing ones to the phone at the lowest total cost of development and ownership. It has built on Windows® Server operating systems and runs on off-the-shelf Intel® processors, so there is no need for costly or special hardware configurations.

Application

Creacode SIP Application Server® can provide your **SIP** based network with real-time call processing via SIP messaging and integration with billing applications via **RADIUS** protocol or **HTTP** messaging. It utilizes independent, script-controlled IVR prompting and can recognize DTMF over RTP. As a complete software-only package, there is no requirement for any third party voice processing hardware, which greatly reduces the cost of the solution. In addition, the only required connection is via WAN/LAN, so it does not consume costly PSTN/TDM resources in providing its enhanced services.

A key feature of our solution is that it can transfer the caller to another destination and redirect the voice payload through the network while retaining supervision of each call session. The solution offers a complete suite of service ready applications like prepaid/calling-card, postpaid, IP-PBX or on-net calls providing value added services that increase service provider's revenue and improve profit margins.



Features and Benefits

CCS Call Flow Scripting Language

CCS language allows wide service development, ranging from simple announcement playback systems towards complex Centrex and prepaid/postpaid scenarios. The event driven scripting language provides an abstraction of low level processing (SIP signaling and media processing) and enables service creator to focus on high-level service architecture. CCS scripting language syntax and semantics looks like the major programming languages like C, JavaScript, PHP etc.

- Real-time call processing via SIP messaging and media streaming
- Real-time call cut off and routing
- Real-time HTTP-based information and content retrieval from a Web Server with 128 bit SSL support.
- Error-handling, reporting and tracking functions
- Powerful string manipulation functions

RADIUS Client

RADIUS client interface allows communicating with third party billing packages via RADIUS protocol for authentication, authorization and accounting services during a call session. By separating the call control logic from AAA services, this solution provides for a scalable and extensible architecture with external billing servers.

HTTP Messaging

HTTP post/retrieve functionality allows secure communication with a custom application which runs on a web server. So authentication and accounting process does not have to depend on an AAA server which only talks RADIUS. In addition, this feature reduces the cost of integration with a billing server and provides unrestricted flexibility for service development.

Voice Recording & Voice Mail

Caller's voice can be recorded and sent to an e-mail address that is defined in call flow scripts. For exp. the recorded voice can be delivered to a salesperson or a support member.

Supported Audio Codecs

- G711 uLaw/aLaw, G729A

Multi-Vendor SIP Device Support

- Gateways
- Softswitches
- Softphones/SIP phones
- IADs

Technical Specifications

Creacode SIP Application Server® runs on Microsoft Windows® 2000/2003/2008 Server operating systems with inexpensive and readily available Intel® based servers.

Its low level layers conform to following **IETF RFCs**:

- 3261 - SIP: Session Initiation Protocol
- 2327 - SDP: Session Description Protocol
- 2976 - The SIP INFO Method
- 3550 - RTP / RTCP
- 2833 - RTP Payload for DTMF Digits
- 2865 - RADIUS
- 2866 - RADIUS Accounting
- 1325 - The MD5 Message-Digest Algorithm
- 2616 - HTTP/1.1
- 0821 - Simple Mail Transfer Protocol

Other Features

- SIP Registrar
- Route plan definition
- IP filtering for incoming calls
- Redundancy support
- SIP NAT Traversal
- T.38 Fax support
- Direct database access via ODBC
- Multiple language support for voice prompting
- Advanced script compiler with detailed error reporting
- New call service activation without restarting the system
- Written in C & C++ for high performance

Administration and QoS

- Web and Telnet management interfaces
- Real-time call monitoring
- Call statistics monitoring
- CDR reporting and export
- Concurrent call reporting
- Configuration files in plain text format
- Remote Log analysis
- Periodic call session reports by e-mail

Capacity and Performance

- Up to 5000 concurrent SIP call processing or 120RTP session on 4x3.8Ghz CPU and 4GB RAM configuration
- Multiple voice service deployment on a single server
- Low physical memory and CPU usage under load conditions.

Contact Us

Please contact us to find out more information about our products and services.

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