GIPS VoiceEngine PC SDK

Enabling Unified Communications

As communications technology becomes more integrated and advanced, developers are looking for complete, yet flexible software that can enable their PC applications to be true Unified Communications solutions. GIPS VoiceEngine PC SDK meets these needs by delivering crucial voice processing and SIP technology in a flexible, easy to integrate solution.

One Stop Shopping

GIPS VoiceEngine PC SDK saves developers time and money by delivering a variety of easy-to-integrate IP communications features. Developers have traditionally been forced to go to multiple vendors to find each component necessary to build a Voice over IP application. Those days are now history, as GIPS has simplified the development process by including all the important IP communications pieces in one convenient package. The VoiceEngine SDK contains standard SIP signaling as well as GIPS' world-renowned voice processing technology. The result is a high-level SDK that allows application developers to focus on their core competencies, while leaving all the difficult IP communications processing to GIPS. Creating Unified Communications applications has never been easier!

Complete Feature Set

Since VoiceEngine SDK is built upon GIPS award winning VoiceEngine™ technology, customers can be assured they are receiving the best voice processing software available. VoiceEngine is the recognized market-leading voice processing solution, with hundreds of millions of deployments worldwide. The VoiceEngine SDK contains both narrowband and wideband codecs to provide excellent speech quality regardless of network conditions. It also delivers GIPS' patented NetEQ technology to handle all the inherent difficulties associated with IP networks, such as delay and packet loss. In addition, the SDK's SIP stack enables applications with standards-based call set up, STUN and presence, ensuring a full-featured UC solution. These features have been bundled together in a high-level API specifically tuned for PC environments, guaranteeing stability and high performance.

Benefits
• High-level API for easy integration
• Field-proven, best in class solution
• High quality voice under adverse network conditions
• Accelerates time-to-market
• Backed by a support organization dedicated to customer success
• Standards-based technology ensures interoperability

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Features

Voice Processing
- Robustness against packet-loss and delay
- GIPS wideband and narrowband codecs
   - includes iSAC and iLBC
- Optional support for standard codecs
- Recording
- Speech level indicator
- Microphone and speaker volume control

Voice Quality Enhancement
- Acoustic Echo Cancellation
- Noise Suppression
- Automatic Gain Control
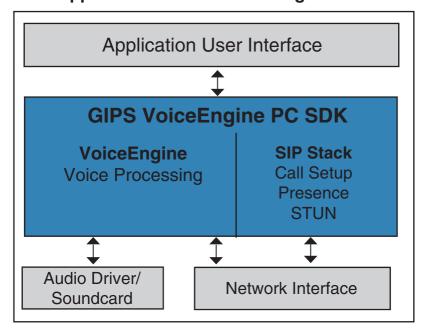
Platforms
- Windows 2000, 2003, XP and Vista

Call Handling
- SIP session initiation
- NAT traversal via STUN
- 3-way calling
- Call forwarding
- Call waiting
- Call hold
- Call resume
- Call transfer
- Caller ID

Presence
- Support for SUBSCRIBE
- Support for NOTIFY

Application Built on VoiceEngine SDK

Application User Interface

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VoiceEngine Voice Processing	**SIP Stack** Call Setup Presence STUN

Audio Driver/ Soundcard	Network Interface