



InterpreXer™, Phonologies VoiceXML IVR Server

Let your Communications Platform do the talking

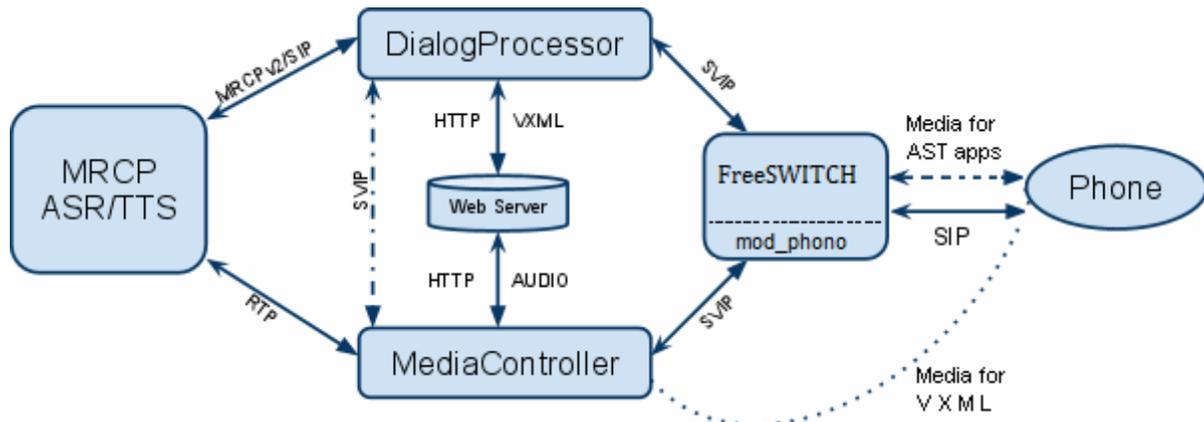
Overview

InterpreXer™ 4.1 is a SIP based VoiceXML (2.0 and 2.1) IVR Server for Linux and Windows systems to enable seamless development and deployment of speech and telephony applications.

InterpreXer™ can recognize user input via DTMF and plays back prompts in ulaw/wav formats. It supports Speech recognition (input) and Text-to-speech (playback) through third-party engines using MRCPv2.

InterpreXer™ has been architected to separate media handling, document interpretation and telephony to run as independent services – ensuring high availability, scalability and module distribution.

Architecture:



Technical Specifications:

Application Protocols:

- VoiceXML 2.0 & 2.1
- GrXML & SSML

Standards

- HTTP/1.1 & HTTPS
- ECMAScript

Signaling / Codecs:

- SIP / RTP (g711uLaw / g729)
- MRCP v2 (g711uLaw)

Speech Technology:

- ASR & TTS MRCP v2 (Nuance, LumenVox)

Custom Extensions:

- Invoke native FreeSWITCH apps in VXML
- SMS from VXML

Management GUI:

- Provisioning DID / SIP Extns
- Multiple vXML URI configuration
- Configuration of Speech Engines
- Real time Logs / System Monitoring

Load Balancing / HA

- OpenSIPs (custom module)

VXML IDE:

- Java based (custom module)

Operating System & Hardware:

- Linux CentOS 6.x, 7.x (x64)
- Win2012 & Win2016
- Intel Dual Core 3Ghz Proc
- 8GB RAM + 1GB HD

Availability and Deployment:

InterpreXer™ runs out of the box for SIP/VoIP and PSTN installations, where it can be deployed standalone or within your existing IP based PBX Network. InterpreXer™ readily supports SIP devices from vendors like CISCO, Avaya, ShoreTel, Linksys, Allworx, Quintium, Sangoma to name a few, and also SIP providers like SimpleSignal, Star 2 Star, Twilio, PortaONE. InterpreXer™ is also available in modular packages to VoiceXML enable parts of your telephony server, messaging suite, or communications solution embedded CPE devices.

Modules

DialogProcessor: Document Interpreter, which downloads and executes <vxml> tags, using MediaController and FreeSwitch® for media and telephony related functions. Also handles MRCP signaling for speech recognition and text to speech interactions.

MediaController: Handles download / playback, recording / upload and streaming of audio to / from speech engines to the SIP / RTP caller endpoint.

FreeSWITCH®: Modular open source softswitch which handles all telephony functions of InterpreXer, like inbound, outbound call handling and call transfer (bridge and blind)

About Phonologies

Phonologies is a provider of cloud based platforms to 'voice enable' business processes. Our 'software-only' technologies are easy to plug-in and implement open standards that are easy to manage, resulting in interoperability, lower costs and protection of investments in the long run. Phonologies' flagship product, Oktopous™ powers over 10 Million calls worldwide each day. For more information on Phonologies, visit <http://www.phonologies.com>

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