Voice MediationEngine

Ensuring Quality Interoperability

As more people communicate over IP networks, the need to deliver high-quality interconnectivity becomes even greater. Voice MediationEngine (VME) provides equipment manufacturers and service providers alike with a solution that solves all of the complex voice processing functions for VoIP communications in one integral piece of software that guarantees the best voice quality with the lowest possible delay.

Improving the VoIP Experience

Today many VoIP calls experience serious quality degradation when service providers and enterprises must handle multiple calls originating from endpoints with differing voice processing technology or utilize gateways to access disparate networks. It is with these problems in mind that Global IP Solutions designed Voice MediationEngine. By utilizing VME, service providers can improve voice quality and ensure interoperability, reducing chrun and increasing customer satisfaction.

Tackling Network Degradation

Most media gateways and servers cannot sufficiently handle the difficult conditions presented by IP networks or compensate for differing endpoint technology. Limited codec selection, poor jitter buffer technology, lack of QoS control, and otherwise inadequate voice processing software on the server or gateway can all affect call quality. VME overcomes these obstacles to deliver markedly improved voice quality. By taking advantage of voice processing technology on both sides of an IP network, service providers and enterprises can use Global IP Solutions' high quality Internet codecs and enjoy rich audio quality with minimal delay.

Configured for Flexibility

Because VME is a software solution, it can be configured for a number of environments, allowing service providers to scale to meet call volume without worrying about hardware limitations. VME comes in two configurations: VME for Gateways and VME for Servers. VME for Gateways enables incredibly flexible gateway design by allowing for a software solution on a standard server equipped with TDM interface hardware, while VME for Servers handles transcoding and de-jittering even if the server already contains media processing software for audio mixing or conferencing purposes.
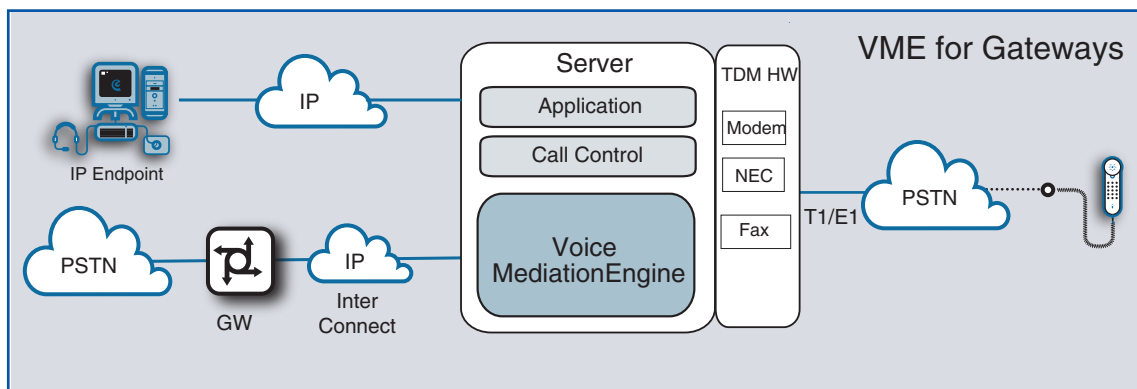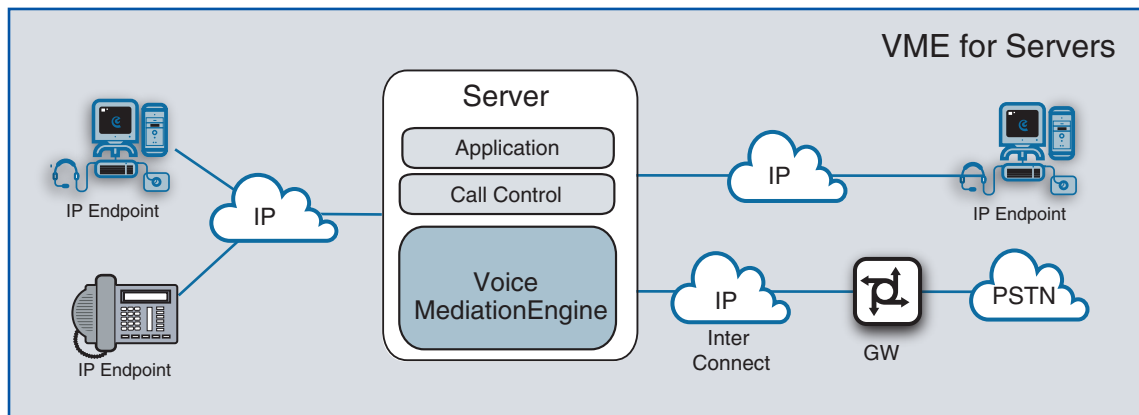
Key benefits

· High quality, efficient call termination reduces churn and increases customer satisfaction
· Leverages Global IP Solutions technology in both directions when calling via a gateway or server
· Minimizes delay via NetEQ during decoding
· Enhances speech quality in a packet loss environment
· Flexible design on any standard server platform

Voice MediationEngine

VME for Servers

- Server
  - Application
  - Call Control
  - Voice MediationEngine
- IP Endpoint
- IP
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- IP
- IP Endpoint
- Inter Connect
- GW
- PSTN

VME for Gateways

- Server
  - Application
  - Call Control
  - Voice MediationEngine
- IP Endpoint
- IP
- PSTN
- GW
- Inter Connect
- TDM HW
  - Modem
  - NEC
  - Fax
- T1/E1
- PSTN

Features

· NetEQ usage
· Support for Global IP Solutions codecs (iLBC, Enhanced G.711)
· Support for ITU codecs (G.711, G.729A, G.723.1, etc.)
· Recording
· DTMF detection and generation
· Network statistical interface
· SRTP and external encryption support