

Dialogic® Vision™ 1000 Audio Server

Technology Brief

A Fully Integrated Platform for Interactive Speech-Enabled VoiceXML Applications

The Dialogic® Vision™ 1000 Audio Server fully integrates the complex features of network signaling, PSTN and RTP bearer connections, call management, media processing, speech resource interfaces, scripting support, and administration to free application developers to focus on their applications instead of infrastructure.

As a 1U carrier-ready platform, the Vision 1000 Audio Server positions the application developer to quickly move from idea to deployment with the efficiency and savings of having network-proven speech-enabled infrastructure.

Voice applications that involve audio mixing can benefit from the Vision 1000 Audio Server's support of CCXML. Non-bearer sources of audio, such as music-on-hold and voice-based advertising, can be added easily and controlled by CCXML dialogs. These capabilities are also suitable for contact center features, such as coaching and call recording.

Supports a Wide Range of Applications

The Vision 1000 Audio Server enables a full range of services, from video-enhanced upgrades on traditional voice services, to new applications based on the Internet. Examples of applications supported by the Vision 1000 Audio Server include:

- Multimedia ringback
- Streaming internet content
- Enterprise and internet conferencing
- Mobile value-added services
- Internet webpage click-to-call
- Voice mail
- SMS voice messaging
- Self-service and call center customer care
- Outbound dialing services

Integrates with ASR and TTS Speech Resources

The Vision 1000 Audio Server allows developers to quickly create speech-enabled applications, because it can integrate easily with leading ASR and TTS vendor platforms and because it supports the industry-standard MRCP protocol. As of the publication date of this document, compliant speech technology servers are available from Nuance, Telisma, Loquendo, Acapela Group, and CVOX.

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Feature-Rich and Ready for Deployment

The feature set for the Vision 1000 Audio Server has evolved over several years of deployment, responding to market demands across a wide range of applications and networks. The following features are available:

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|-----------------------------|--|
| VoiceXML compliance | Close adherence to the VoiceXML standard with minimal deviation, even for video processing features, means that applications are highly portable and easy to integrate with third-party development tools |
| Voice encoding | In addition to standard G.711 voice encoding, the Vision Audio Server also supports real-time transcoding of AMR-NB, G.723.1, and G.729a media streams |
| Integrated gateway | SIP interworking, call bridging, call transfers, conferencing, call detail records, and CCXML call control programmability — a rich gateway feature set is integrated into Vision 1000 Audio Servers, eliminating the need for external media gateways |
| Dense and flexible | Vision 1000 Audio Servers are packaged in a high-density 1U form factor, supporting up to 480 audio sessions or 240 video sessions. Any combination of audio and video ports can be deployed against any of the supported network configurations |
| Web-based management | A secure centralized web console manages Dialogic® Vision™ 1000 Servers and Dialogic® Vision™ 1000 Gateways across an installation, providing monitoring, configuration, hardware control, call detail records, and the reporting of key performance indicators. Supplemental management servers are not necessary. |
| Carrier-ready | Vision 1000 Audio Servers are built on a telco-ready platform with Dialogic® media processing and network interface adapters. Every unit includes redundant disks, fans, and AC or DC power supplies. Lights-out remote management is standard, even while a unit is powered down. SNMP interfaces are available for monitoring application usage and server health. |

Many Signaling Options

Non-SS7 protocols SIP-I, ISDN, and SIP are fully integrated into every Vision 1000 Audio Server, allowing a maximum density of 480 audio sessions or 240 video sessions per 1U server.

SS7 protocols are available integrated into the Vision 1000 Audio Server. Supported protocols include ISUP, SIGTRAN, and BICC. Integrated SS7 capability results in a media density of 240 audio sessions or 120 video sessions for that Vision 1000 Audio Server.

For More Information

The Vision 1000 Audio Server is one of the Dialogic® Vision™ Products. For detailed information on [currently available Vision Products](#), visit the Dialogic website or [contact](#) your local Dialogic representative.

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Order Information

The following parts for Vision 1000 Audio Servers are available:

| Part Number | # Audio Ports | Description |
|-------------|---------------|---|
| VPA-205-120 | 120 | Audio Server, Minimum Configuration, AC |
| VPA-205-480 | 480 | Audio Server, Maximum Capacity, AC |
| VPD-205-120 | 120 | Audio Server, Minimum Configuration, DC |
| VPD-205-480 | 480 | Audio Server, Maximum Capacity, DC |
| VPA-205-000 | 30 | Audio Server, Developer Unit |
| VPA-002-000 | N/A | Audio Server, Spare Hardware, AC |
| VPD-002-000 | N/A | Audio Server, Spare Hardware, DC |

Capacity and Feature Expansion Licenses

Activation licenses are also available in 30-port increments to expand features or capacity, up to the supported port limit, even if the integrated systems are fully deployed and operational.

An “integrated” license (VLI) is installed on the Vision 1000 Audio Server at the factory prior to shipment. An “upgrade” license (VLU) can be posted to Dialogic’s online license activation for field upgrade site later.

The following capacity and feature activation licenses are available:

| Part Number | Feature License |
|-------------|--|
| VLI-202-030 | Audio Server Integrated License |
| VLU-202-030 | Audio Server Upgrade License |
| VLI-204-030 | Video Server Integrated License |
| VLU-204-030 | Video Server Upgrade License |
| VLU-029-030 | Video Transcoder License |
| VLU-017-030 | G.723 Audio Codec License |
| VLU-018-030 | G.729 Audio Codec License |
| VLU-032-240 | Developer 60-day Full Capacity License |



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