

Dialogic® Vision™ 1000 Video Gateway

Technology Brief

Connect SIP Devices and Applications for Voice and Video into PSTN, Wireless, and IMS Networks

Today's service provider market demands smart video service solutions that can speed time to revenue and be deployed in a wide variety of networks worldwide. Additionally, enterprises are adding video to their business-critical calling services. To address these demands, the Dialogic® Vision™ 1000 Video Gateway is network-ready and built on commercially proven Dialogic® gateway technology. The Vision 1000 Video Gateway connects SIP-based interactive mobile voice and video services in a wide variety of network environments, from 3G mobile to packet-based IMS to ISDN.

Connect Mobile Video Subscribers to the World

The Vision 1000 Video Gateway can connect mobile video subscribers having 3G-324M capability to callers and applications in many different situations. Service providers and application developers can capture revenue opportunities in 3G networks with support for video calling. Key connections for video callers include:

- SIP video applications
- Internet phone callers
- Video conferences
- Non-video handsets
- Contact center call agents

Supports a Wide Range of Multimedia Applications

The market for video applications is rapidly expanding and innovating. To keep pace, service providers need to get new applications quickly through trials and into the market with a robust, proven solution. And to create new revenue opportunities, an investment in a single technology stack needs to support a variety of revenue-generating multimedia services. The Vision 1000 Video Gateway addresses these needs by using industry-standard SIP interworking and media adaptation to seamlessly connect 3G-324M callers to video applications, including:

- Multimedia ringback
- Streaming Internet content
- Mobile value-added services
- Facebook click-to-call
- Voice/video mail
- SMS video messaging
- Self-service customer care
- Outbound dialing services

Dialogic® Vision™ 1000 Video Gateway

Technology Brief

Connect SIP Devices and Applications for Voice and Video into PSTN, Wireless, and IMS Networks

Feature-Rich and Ready for Deployment

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

| | |
|------------------------------------|---|
| Any-to-any media adaptation | Real-time video transcoding is possible on all channels, between any combination of H.263, H.264, and MPEG-4, on any IP or PSTN bearer channel. Transcoding capabilities include frame rate and frame size adaptation. Video channels can be connected to voice-only channels. |
| SIP interworking | SIP-based devices and applications can be connected to SS7 ISUP, SIGTRAN, or ISDN networks, as well as IMS networks based on BICC or SIP-I. The Vision 1000 Video Gateway performs standards-based SIP interworking functions, simplifying the application. |
| Dense and flexible | The Vision 1000 Video Gateway is 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. |
| CCXML programmability | The Vision 1000 Video Gateways is easy to integrate into video applications with extensive gateway feature support such as programmable routing tables and CDR generation. With CCXML a standard feature on the Vision 1000 Video Gateway, the possibilities for call control programmability are unlimited. |
| VoiceXML extensibility | With a simple license activation, a Vision 1000 Gateway can be extended to create full interactive multimedia applications using VoiceXML. Contact your local Dialogic representative for more details. |
| Web-based management | A secure, centralized web console manages Dialogic® Vision™ 1000 Servers and Video Gateways across an installation, providing monitoring, configuration, hardware control, call detail records, and reporting of key performance indicators. Supplemental management servers are not necessary. |
| Carrier-ready | Vision 1000 Video Gateways 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. |

Use as a Multimedia Gateway, or Simply Add Video

Because the Vision 1000 Video Gateway incorporates full audio gateway services including audio transcoding, it can be cost effective to use Vision 1000 Video Gateways for both audio and video services within a single gateway. There also can be situations where it would be beneficial to supplement existing audio gateways with the video capabilities of a Vision 1000 Video Gateway.

To support such an integrated model, a Vision 1000 Video Gateway can be located in the network to deliver video services behind an in-place audio gateway through support of RFC4040. The Vision 1000 Video Gateway does not require a 1:1 gateway-to-transcoding resource, providing further cost-effectiveness.

Preventing Dropped Calls with Video Call Completion to Voice (VCCV)

Simultaneous support for voice-only calls enables low-latency conversion from video-to-voice for VCCV services. VCCV can greatly improve customer satisfaction because it allows a video call to gracefully switch to voice if the called party does not answer on a video-enabled phone. Calls are not dropped because of a video-voice mismatch, eliminating a source of complaint for customers and enabling increased call time and revenue.

Dialogic® Vision™ 1000 Video Gateway

Technology Brief

Connect SIP Devices and Applications for Voice and Video into PSTN, Wireless, and IMS Networks

Many Signaling Options

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

SS7 protocols are available integrated into the Vision 1000 Video Gateway. 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 Video Gateway.

For More Information

The Vision 1000 Video Gateway 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.

Order Information

The following parts for Vision 1000 Video Gateway are available:

| Part Number | # Video Ports | Description |
|-------------|---------------|--|
| VPA-201-030 | 30 | Video Gateway for SS7, Minimum Configuration |
| VPA-201-120 | 120 | Video Gateway for SS7, Maximum Capacity |
| VPA-201-000 | 30 | Video Gateway for SS7, Developer Unit |
| VPA-001-000 | 120 | Video Gateway for SS7, Spare Hardware |
| VPA-203-060 | 60 | Video Gateway, Minimum Configuration |
| VPA-203-240 | 240 | Video Gateway, Maximum Capacity |
| VPA-203-000 | 30 | Video Gateway, Developer Unit |
| VPA-002-000 | 240 | Video Gateway, Spare Hardware |

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 Video Gateway 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-201-030 | Video Gateway for SS7 Integrated License |
| VLU-201-030 | Video Gateway for SS7 Upgrade License |
| VLI-203-030 | Video Gateway Integrated License |
| VLU-203-030 | Video Gateway 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 |



www.dialogic.com

Dialogic Inc
1504 McCarthy Boulevard
Milpitas, California 95035-7405
USA

Dialogic and Vision are either registered trademarks or trademarks of Dialogic Inc. and its affiliates or subsidiaries ("Dialogic"). Dialogic's trademarks may be used publicly only with permission from Dialogic. Such permission may only be granted by Dialogic's legal department at the address provided above. The names of actual companies and products mentioned herein are the trademarks of their respective owners.

Dialogic encourages all users of its products to procure all necessary intellectual property licenses required to implement their concepts or applications, which licenses may vary from country to country. None of the information provided herein forms part of the specifications of the product(s) and any benefits specified are not guaranteed. No licenses or warranties of any kind are provided hereunder.

Any use case(s) shown and/or described herein represent one or more examples of the various ways, scenarios or environments in which Dialogic® products can be used. Such use case(s) are non-limiting and do not represent recommendations of Dialogic as to whether or how to use Dialogic products.

Dialogic may make changes to specification, product descriptions, and plans at any time, without notice.