

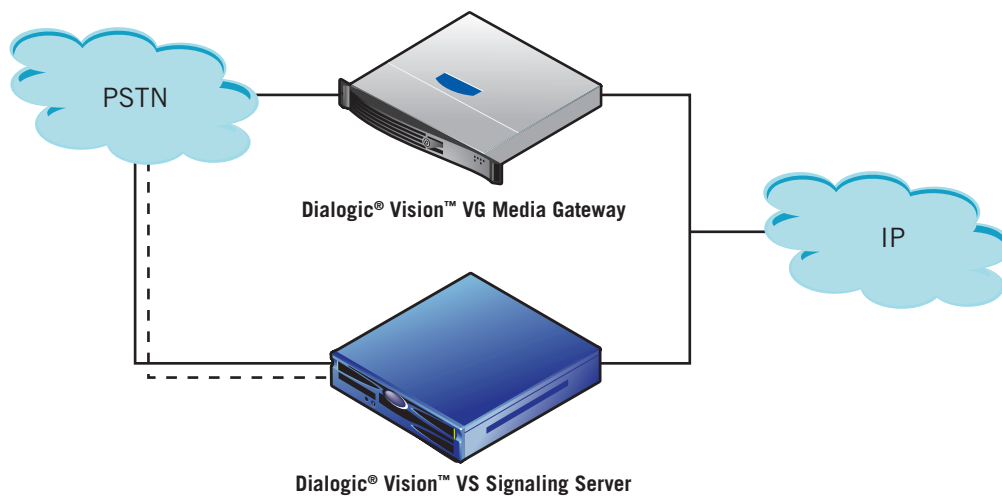
# Dialogic® Vision™ VG Media Gateway

Datasheet

Delivering Carrier-Grade Scalable PSTN Connectivity to SIP services

Dialogic® Vision™ VG Media Gateway, together with the Dialogic® Vision™ VS Signaling Server, form an integrated, scalable, highly available turnkey option for delivering SIP services into legacy ISDN, CAS, and SS7 networks.

This powerful combination provides a cost-effective choice for network equipment providers, system integrators, and application developers seeking to deploy flexible, IP-based enhanced services within carrier and enterprise networks.



Deploying services such as self service contact centers, voice portals, predictive dialers, call centers, and ringback tones, typically requires specialized functions for optimizing the deployment. With the Vision VG Media Gateway's enhanced call transfer support, gateway ports can be freed as calls are transferred back to either ISDN or CAS networks, reducing the number of gateway ports required for deployment and helping lower self-service and call center deployment costs.

The Vision VG Media Gateway provides a rules based call routing engine complete with dynamic editing abilities, eliminating the need for a separate media gateway controller. The Vision VG Media Gateway's call progress features can assist with applications such as predictive dialers by detecting voice activity.

Dialogic® Vision™ Family of Servers and Gateways offers developers and service providers turnkey products that can significantly lower the cost and time for application development. Coupled with comprehensive support and maintenance services, the Vision Family can assist with the rapid development and deployment of value-added solutions.

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## Features

Carrier-grade integrated media gateway for connecting PSTN callers to SIP-based VoIP resources such as IP call agents, ASR servers and VoiceXML media servers

Wide range of audio codecs built for network bandwidth optimization

Dedicated trunk configurations for inbound and outbound dialing

Integrated ISDN, CAS SS7 ISUP, and SIP network signaling

Enhanced call transfer services maximizing available gateway ports

T1, E1, and RTP-based VoIP connections

1U chassis, stackable to provide the right capacity for each deployment

Expandable port density via software upgrade

Global approvals



## Technical Specifications

### Network Interfaces

- IP: 10/100/1000Base-T Ethernet
- PSTN
  - T1, E1 (software configurable)
  - 64 msec echo cancellation on all TDM trunks; compliant with G.168 specification

### PSTN Signaling

- SS7 (ISUP)
  - Based on Dialogic® Vision™ VS Signaling Server (optional)
  - Multiple Dialogic® Vision™ VG Media Gateways are supported by a single high-capacity Dialogic® Vision™ VS Signaling Server
  - 1+1, active/standby for high service
- ISDN
  - AT&T 5ESS
  - AT&T 4ESS
  - Northern Telecom DMS
  - US National ISDN 2
  - Euro-ISDN and Euro-Numeris
  - NTT INS 1500
  - QSIG
  - ANSI T1.607
  - Hong Kong, Korea, Australia
- CAS
  - Worldwide MFC-R2 variants
  - European CAS
  - CAS R1.5
  - Feature Group D
  - Australian P2
  - Ground Start
  - OPS foreign exchange (FX)
  - OPS special access (SA)
  - SS5
  - International Wink Start
  - Digital E&M variants
  - NEC PBX
  - MD110 EL7
  - MELCAS
  - MF Socote

## Technical Specifications *(continued)*

### IP Bearer

- G.711, A-law, u-law
- G.723
- G.726
- G.729A
- AMR
- GSM-FR
- iLBC
- eVRC
- RFC 2833 – DTMF via RTP

### IP Signaling

- RFC 2327 – Session Description Protocol (SDP)
- RFC 2976 – INFO Method
- RFC 3261 – Session Initiation Protocol (SIP)
- RFC 3264 – SDP Offer/Answer Model
- RFC 3326 – Reason Header Field
- RFC 3398 – ISUP/SIP Mapping
- RFC 3515 – Refer Method
- RFC 3578 – ISUP Overlap Signaling to SIP Mapping
- RFC 3666 – SIP PSTN Call Flows
- RFC 3891 – Replaces Header
- RFC 3960 – Early Media and Ringing Tone Generation
- RFC 4904 – Representing Trunk Groups

### Call Routing Features

- Call routing based on ANI, CLID, DNIS, SIP URI
- Post route digit translation
- Outbound PSTN Trunk group selection via routing table or RFC4904
- Failover routing
- SIP interface allows load balancing and redundant configurations

### Call Transfer

- TBCT (Two B Channel Transfer)
- RLT (Release Link Trunk)
- ECT (Explicit Call Transfer)
- QSIG
- Supervised Hook-Flash (CAS)
- REFER Blind/Bridge/Supervised

## Technical Specifications *(continued)*

### Call Progress Analysis

- Voice Begin/Medium/Long/Extended/End Detect
- SIT/CED/TDD tone detection
- Notifications via SIP INFO

### PSTN Physical Interfaces (optional)

- 4 or 8 T1/E1 trunks
- T1: ANSI T1.102, T1.403
- E1: G.703 2,048 kbps
- RJ-45 connectors, each with 2 trunks (4 trunk version)
- Mini RJ21 (SEP panel required – 8 trunk version)
- 120 ohm termination, or 75 ohm (optional)

### Management

- Web-based management console
- SNMP v1 (trunk alarms)
  - Trunk MIB (RFC 2495)
- Configurable logging
  - Per-call/module/event

### Capacity

- 2, 4, 8 T1/E1 (up to 240 ports)
- Capacity upgrade through software license (certain configurations)

### Server

- Intel SR1500
- 1U, 19" rackmount
- Height: 1.75 in (4.445cm)
- Width: 16.93 in (43 cm)
- Depth: 26.457 in (67.2 cm)

### Operating System

- Red Hat Linux Enterprise Server 4.0 Update 4

### AC Power Requirements

- 100–127 VAC at 50/60 Hz; 8.9A maximum
- 200–240 VAC at 50/60 Hz; 4.5A maximum

[www.dialogic.com](http://www.dialogic.com)

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