Cisco VG300 Series High Density Analog Voice Gateways

Frequently Asked Questions

Q. What is the difference between the analog voice gateways in the Cisco® VG300 Series?
A. For a comparision of the analog voice gateway models, go to: http://www.cisco.com/en/US/products/hw/gatecont/ps2250/prod_models_comparison.html

Q. Is the VG300 Series interoperable with Cisco Unified Communications Manager?
A. Yes. For more details on version compatibility, please refer to the Cisco VG Series data sheet.

Q. Does the VG300 Series support Cisco Unified Communications Manager Express?
A. The VG300 Series does not support Cisco Unified Communications Manager Express natively, as it is a standalone gateway. The FXS ports on the VG300 Series can be configured as Skinny Client Control Protocol (SCCP) ports and registered to a separate Cisco 2900 or 3900 Series Integrated Services Router Generation 2 (ISR G2) or Cisco 4000 Series ISR running Cisco Unified Communications Manager Express.

Q. Can the VG300 Series support fax and modem pass-through on the same box?
A. Yes.

Q. Does the VG300 Series support all Cisco Unified Communications Manager Express features as an SCCP device?
A. The VG300 Series does not support the following features on Cisco Unified Communications Manager Express:

- **Completion of Calls to Busy Subscribers (CCBS):** When a calling party receives a busy tone, the caller can request that the call complete when the busy destination hangs up the phone and becomes available.
- **Completion of Calls on No Reply (CCNR):** When a calling party receives no answer at the destination, the calling party can request that the call complete after the activity occurs on the phone of the called party.

CCBS and CCNR are supported using Cisco Unfied Communications Manager.

Q. Does the VG300 Series support Cisco Unified Survivable Remote Site Telephony (SRST)?
A. The VG300 Series does not support Cisco Unified SRST natively. The VG300 Series are dedicated analog line-side gateways. A separate 2900 or 3900 Series ISR G2 router or 4000 Series ISR running SRST is required for VG300 Series analog ports to fail over (only SCCP ports support SRST failover).

Q. Does the VG300 Series support Secure Real-Time Transport Protocol (SRTP)?
A. Yes, the VG300 Series supports SRTP for highly secure media and Transport Layer Security (TLS) for highly secure signaling. For example, for the VG350, an additional security license (SL-VG350-SEC-K9) is requried.

Q. Does the VG300 Series support Simplified Message Desk Interface (SMDI)?
A. No.

Q. What voltage does the VG300 Series use to light message waiting indicators (MWIs)?

A. The VG300 Series uses frequency shift keying (FSK) and DC voltage (~100V) to light MWI lamps.

Q. What codecs are supported by the VG300 Series analog phone gateways?

A. G.711, G.722, G.726, G.728, G.729, iLBC, and iSAC.

Q. Does the VG300 Series support DC power supplies?

A. Yes.

Q. Does the VG300 Series support a backup power supply?

A. The VG350 offers redundant power supplies, with AC and DC options. The VG310 and VG320 don't have a redundant power supply option and rely on external universal power supplies (UPS) for power redundancy.

Q. Does the VG300 Series support backup Ethernet connections?

A. The VG350 has three 10/100/1000BASE-T ports. The VG310 and VG320 have two 1-Gbps Ethernet ports. These ports can be used for multihoming configuration for switch failover. They can also be used with dynamic routing protocols such as Routing Information Protocol (RIP), Open Shortest Path First (OSPF), and Enhanced Interior Gateway Routing Protocol (EIGRP) for link redundancy on the LAN side. To enable dynamic routing protocols on the LAN side, a data license (for example, SL-VG350-DAT-K9) is required.

Please note that these Ethernet ports cannot be used to connect the VG300 Series to the WAN directly. This is not a supported configuration.

Q. What Cisco IOS® Software release is on the VG300 Series?

A. Please refer to the Cisco VG Series data sheet.

Q. What distance can the VG300 Series OPX-Lite ports drive?

A. The VG350 supports two modules: SM-D-72FXS and SM-D-48FXS-E. The first 4 ports (ports 0 through 3) on the SM-D-72FXS module can be configured for long loop-length (OPX-Lite), and all 48 ports on the SM-D-48FXS-E support OPX-Lite. On the VG310, the first 8 ports (0 through 7) can be configured for OPX-Lite. On the VG320, the first 4 ports (0 through 3) can be configured for OPX-Lite. For all the VG300 Series models, the OPX-Lite ports can drive up to 11,000 feet using 26 AWG wire, and up to 18,000 feet using using 24 AWG wire.

Q. Do I need a special license to enable Secure Shell (SSH) Protocol?

A. No, the IP Base feature license (for example, SL-VG350-IPB-K9) that is included with the VG300 Series has a built-in SSH feature and can be configured immediately.

Q. Do the Enhanced High-Speed WAN Interface Card (EHWIC) slots of the VG300 Series support any modules?

A. Yes, the EHWIC slots support the VIC2-2FXO, VIC2-4FXO, VIC3-2FXS, VIC3-2FXS-E/DID, and VIC3-4FXS/DID analog voice cards for additional capacity. The EHWIC slots also support VWIC3 T1/E1 cards for diginal voice services.

Q. Can I plug T1/E1 voice/WAN interface cards (VWICs) into the EHWIC slots of the VG300 Series?

A. Yes, VWIC3 cards are supported. The T1/E1 VWIC3 cards are supported to source in/out clocking for/from the VG300 Series to help enable end-to-end clock synchronization. Public-switched telephone network (PSTN) voice termination on VWIC3 T1/E1 cards is also supported on the VG310 and VG320 from Cisco IOS Software Release 15.4(3) and on the VG350 from Cisco IOS Software Release 15.5(1)T. The EHWIC slots also support Foreign Exchange Subscriber (FXS) and Foreign Exchange Office (FXO) voice interface cards (VICs) for additional capacity.

Q. Can I plug in T1/E1 WAN interface cards (WICs) in the EHWIC slots of the VG300 Series?

A. No, WIC (data) interface cards are not supported with the VG300 Series. The VG300 Series consists of dedicated high-density analog gateways that connect to a LAN, so there is no support for WAN connectivity cards and protocols.

Q. Does the VG350 support any other network modules or service modules in the service module slots?

A. No, the only two service modules that are supported in the service module slots of the VG350 are the double-wide SM-D-72FXS and SM-D-48FXS-E.

Q. Does the VG300 Series support lightning surge protection?

A. Yes. The VG300 Series is certified for NEBS GR-1089 Type 1/3 lightning surge and AC power fault.

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