

Alcatel Voice Gateway

Increase your revenue and dramatically change the business model for DSL deployment by offering bundled local, long distance, and high-speed Internet services at a fraction of the cost of traditional methods. Easily and inexpensively add a derived POTS service without a truck roll to your customer's premises. These derived lines can be used for voice, fax, and dial-up modem services.



When paired with the award-winning Alcatel [7300 ASAM](#) and Alcatel Speed Touch IAD , the Alcatel Voice Gateway will truly revolutionize your network efficiency and capability. This network enhancement device integrates seamlessly with existing network architectures and is a true carrier-class Voice over DSL solution.

Alcatel's Voice over DSL (VoDSL) solution enables you to offer customers a complete communications solution: voice and high-speed data over a single copper line. Integrated voice and data over DSL enables always-on, high-speed remote access, plus the benefits of multiple local access phone connections without having to manage multiple copper facilities. Voice and data over DSL also provides bandwidth on demand - when phones are not in use, data connections receive all available bandwidth.

The Voice Gateway is the link between the ATM network and the PSTN. Its function is to enable the seamless flow of voice traffic between the broadband access network and the legacy circuit switched network. Once a network offers high-speed Internet access through DSL technology, adding the voice gateway enables a new level of service offerings. The gateway's flexible configuration allows deployment in distributed or centralized network architectures as well as multitenant dwelling (MTU/MDU) environments.

Expanding DSL's capabilities to enable the delivery of multiple voice telephone lines over a single copper line increases service providers' sales opportunities for small businesses and residential customers, and ultimately cuts costs of providing service. VoDSL technology enables voice on the high bandwidth part of the copper line that previously could only transport data.

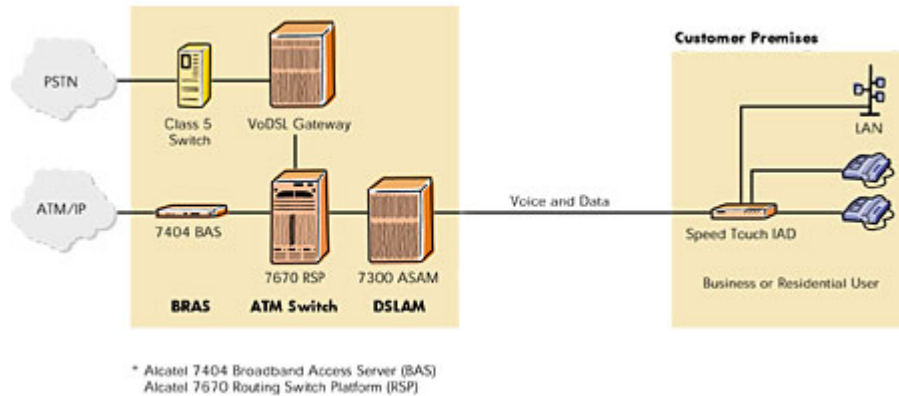
Key gateway features

- Integrated echo cancellation and compression onboard T1/E1 circuit cards
- PCM 64 kb/s, ADPCM 32 kb/s voice encoding
- TR-008, GR-3003, V5 local exchange interfaces ensures voice switch interoperability
- Real-time service provisioning over the VoDSL EOC
- Switches between compressed modes and PCM for fax on the fly
- NEBS Level 1, Level 2, and Level 3 and ETSI compliant
- Supports all custom local calling features and Centrex

- Packet switching bus future-proofed for packet to TDM and packet-to-packet media conversion
- Complete redundancy, including dual packet bus

Components

- Alcatel Voice Gateway
- Alcatel integrated access device (IAD)
- Alcatel [7300 ASAM](#)



The IAD connects standard POTS telephone handsets to the DSL network. It packetizes the voice (POTS) traffic and sends it over the DSL network to the voice gateway. The voice gateway converts the packets back into POTS and delivers the data to the existing Class 5 voice switch in the PSTN.