



GAFACHI

Wholesale VoIP Simplified™

[GAFACHI] Global Termination

Gafachi provides carrier-class Voice-over-IP termination, delivering next generation solutions today.

Wholesale VoIP Simplified

Termination

Gafachi Communications' flagship service is Voice over IP termination. Customers send SIP traffic, via the public Internet or a Direct Connect, to our soft switch, which we then terminate directly via Gafachi's own TDM network. Our mission is to provide customers with a reliable, high-quality termination service at a competitive price, without the usual hassles associated with wholesale telecom.

Why Gafachi?

Experience Makes the Difference

Gafachi has spent years building and expanding one of the industry's leading networks. We have been providing customers with dependable service since 2001.

Reliable Network

- The Gafachi Network was built from the ground up, focusing solely on creating a reliable, fully inter-operable VoIP network.
- Gafachi's long haul, self-healing SONET (Synchronous Optical Network), provides unparalleled reliability.
- 24/7 monitoring from Gafachi's Network Operations Center (NOC).
- Network uptime continually exceeds 99.999%.
- Our proprietary soft switch interconnects the VoIP side of our network with the TDM side of our network, through protocols such as SS7.
- Redundancy is employed in every critical component of our network, leaving no single point of failure.
- Our IP network uses redundant BGP connections to a diversity of Tier 1 backbones.

Protocol	Codecs
SIP	G.711 (µlaw)
	G.711 (alaw)
	G.729
Supported Features	
T.38, CLI, DTMF (RFC2833/RFC4733)	

Quality is Key

When it comes to voice services, quality is of utmost importance. Gafachi's voice network maintains Public Switched Telephone Network (PSTN) quality. We accomplish this through the use of proprietary QoS measures throughout our network, in addition to advanced

echo control and packet-loss concealment technologies.

Competitive Pricing

We went to great lengths to create an efficient, streamlined network, which allows us to provide quality service at competitive prices. Gafachi offers A-Z termination, specializing in U.S. termination with the most aggressive pricing in the industry.

Who Are Our Target Customers?

Gafachi services are geared towards wholesale customers, including:

- VoIP Service Providers
- Domestic and International Call Centers
- Calling Card companies
- Large Business/Corporations

Wholesale Simplified

We understand the needs of wholesale customers and strive to make it easier for you to operate, through unique features such as:

Simplified Billing

Gafachi has simplified wholesale VoIP termination, by offering competitive rates without volume commitments. Instead, your rates are automatically discounted, in real-time, based on your volume. Our secured web interface enables customers to view their usage and make payments.

Easily Accessible Call Detail Records (CDRs)

In the competitive business of VoIP, it is important to provide your customers with the tools they need to monitor their traffic. We provide a user-friendly utility, allowing real-time access to CDRs.

Private Label Resale Program

For resellers who wish to provide services under their own label, Gafachi provides tools designed to allow the reseller to minimize the need for infrastructure and maximize profit.

Account Management

Managing your customer accounts can be time consuming and tedious. Gafachi makes tracking your customer's accounts easy, with our on-line account management interface. *(Available through Gafachi Private Label Resale)*

[GAFACHI] Services

Gafachi offers several VoIP Services to compliment your product offering and expand your options.

Toll Free Origination

Gafachi Communications provides carrier-class Toll Free Origination. Gafachi originates all calls from its own TDM network, converts them to SIP, and hands them off to the customer via IP (public Internet or Direct Connect).

Gafachi is a Responsible Organization

Gafachi is a certified Responsible Organization (RespOrg), which means that all Gafachi Toll Free numbers are controlled and managed directly without the added complication of third-party involvement.

Reliable DTMF Support

Gafachi understands that reliable DTMF support is critical to origination customers with applications such as IVRs. The Gafachi network boasts highly interoperable support for RFC2833 and RFC4733, ensuring reliable DTMF support on every call.

Multiple Routing Options

A SIP register address (an IP address and port provided periodically by customer's equipment/software if it supports sending an outbound SIP register message) or a manual address (an IP address and port provided by you via our website) is used for origination.

When a call comes in to the Gafachi Network to a customer's Toll Free number, it is routed to an active SIP register address if one exists. If there is no active SIP register address, the call will be sent to the manual address configured. This unique functionality enables our customers to setup emergency fallback routing.

Extended Areas of Service

Gafachi's Toll Free numbers are configured for US48, Alaska, and Hawaii area of service by default. Area of service can be expanded to include Canada, Guam, Puerto Rico, Saipan, and the U.S. Virgin Islands.

T.38 Fax Support

Unparalleled Troubleshooting Capabilities

Gafachi realizes that many struggle with T.38 implementation and troubleshooting. Gafachi employs real-time call tracing with protocol captures of all TDM-side signaling (SS7). Our proprietary call tracing utility allows our technicians to non-intrusively set up account-specific

call traces, on the VoIP-side of the network, based on parameters such as IP, call source, and call target. In depth media tracing options can be selected to allow for detailed analysis of RTP, DTMF and T.38. These tools coupled with years of developing and refining T.38 network support, have created one of the industry's most robust T.38 implementations.

Fax Modes

Gafachi offers three modes of fax support, see below.

- NONE – (default) Upon detecting a fax tone, no re-INVITE is sent.
- TRANSPARENT – Upon detecting a fax tone, if the codec is not already G.711 μ law, a re-invite will be attempted to switch to G.711 μ law
- T.38 – Upon detecting a fax tone, our network will send a re-invite to attempt to switch to T.38. If the re-invite fails, a re-invite will be sent to attempt to switch to G.711 μ law if the codec is not already G.711 μ law.

Dedicated Servers

Gafachi offers dedicated server(s), in one of our data centers, with direct connectivity to our network. This option provides an alternative solution to purchasing Internet access and dedicated servers from a third party. With this option, calls are handed off directly from the dedicated server(s) in a Gafachi data center to the Gafachi Network.

Common Applications

- Interactive Voice Response (IVR) systems
- Hosted PBX service providers
- Automatic notification systems

Service Details

- Dedicated Server (Linux or Windows)
- Network connection with access to the public Internet (bandwidth dependant on package)
- 1 network connection with access to the Gafachi Network (full 100mbit/sec included)

Getting Started

For more information, contact us at: sales@gafachi.com or call 1-800-571-5711.

[GAFACHI] Network

Reliability, Redundancy, and Superior Quality

The Gafachi Network was built from the ground up, focusing solely on creating a reliable, fully interoperable VoIP network. A call is first sent to the Gafachi Network via the public Internet or Direct Connect, where it is then carried over our network to a TDM termination. Gafachi's long haul, self-healing SONET (Synchronous Optical Network), provides unparalleled reliability. Coupled with 24/7 monitoring, from Gafachi's Network Operations Center (NOC), network uptime continually exceeds 99.999%.

The Gafachi Network includes best-in-class switching technology, provided by the GSS (Gafachi Soft Switch). The GSS interconnects the VoIP side of our network (using SIP) with the TDM side of our network, through protocols such as SS7. Redundancy is employed in every critical component of our network, leaving no single point of failure. Our IP network uses redundant BGP connections to a diversity of Tier 1 backbones.

Gafachi employs proprietary QoS measures throughout our network, in addition to advanced echo control and packet-loss concealment technologies. To maximize network reliability and integrity, Gafachi employs aggressive security measures, including camera surveillance, metal detectors, and biometric security systems.

Gafachi is proud to provide our customers a high quality, reliable network at an affordable price. Our experience and continued investment into our network, ensures that our customers will have access to next generation solutions today.

