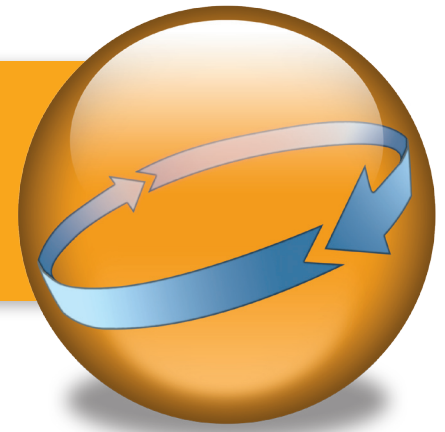


NTT Communications

VoIP Clearinghouse

Simplify your connection with NTT Communications.



Your Voice Over IP

VoIP technology is all over the place. Different vendors. Different equipment. Different protocols. It has slowed the development of VoIP technologies and has made it difficult for businesses to interconnect.

NTT Communications recognizes IP telephony as one of the important communication services of the future. Our VoIP Clearinghouse services launched in January of 2000, and since then, we've been providing a single point of contact to our VoIP Clearinghouse customers worldwide.

Internet Telephony Service Providers, Internet Service Providers, Telecommunications Carriers, and a wide range of global enterprises can all benefit from NTT Communications' VoIP Clearinghouse services for the termination of VoIP worldwide.

OUR CLEARINGHOUSE SOLUTION

NTT Communications' VoIP Clearinghouse brings together regional and local service providers. So instead of pursuing traffic-sharing agreements with hundreds of service providers in different countries and cities all over the world, you get a single point of contact. It's your connection, simplified. And we're already linked directly with 220 countries around the globe, with strong partnerships in Asia. By joining NTT Communications' Clearinghouse, you can access our global partnerships and their services. Imagine those possibilities.

Your World With NTT Clearinghouse

- Hub and Spoke Topography
- Single Worldwide Carrier
- Greater purchasing power, lower per minute charges
- Established Telecom entity with proven track record
- Ability to offer QoS if the call stays on an IP network only to come back to IP

Your World Without

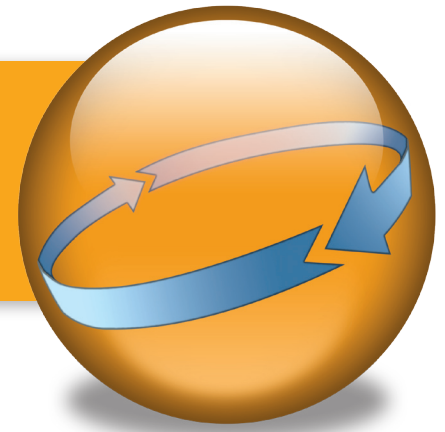
- Spaghetti Networking
- Multiple Worldwide Carriers
- Lack of purchasing power
- Shaky start-ups, and unproven vendors
- Lack of QoS if the call goes to PSTN



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EXPERIENCE THE CONNECTION

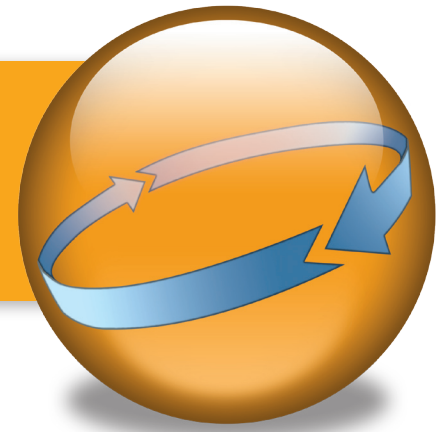
NTT Communications' VoIP Clearinghouse Offers You:

- **One Stop Shopping:** It's one point of contact and it all goes through us. You can use your existing equipment (which helps cut costs) and we orchestrate all of your billing.
- **A One-Package Solution:** Global Network Services, Housing Services, System Integration, and Professional support — you get it all.
- **Access:** Get onto our Global IP Network. Our unmatched jitter SLA ensures clear VoIP transmissions.
- **Terminations:** High-quality. Low-price. Worldwide.
- **Routing:** Powerful. Least-cost. Customized. Heavily negotiated.
- **Billing:** Flexible. Pre-paid. You choose.
- **Control:** We control all of your signaling information — authentication, settlement, and call routing.
- **Security:** 24x7x365 monitoring and maintenance.
- **Unmatched Strength:** NTT Communications has high-quality, low-price terminations available worldwide, and we operate the first Clearinghouse in Asia.
- **Potential:** Try our Enhanced Application Services — UMS, audio conferencing, and web-to-phone services. It's all available to you.

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- **Support:** For Multi-Vendor/Protocol Platforms (MVP) and major VoIP vendor equipment.
 - Interoperability between H.323 and SIP (Session Initiation Protocol)
 - Use of OSP (Open Settlement Protocol*)
 - Provides a single, highly secure mechanism for managing the MVP network
 - Ensures compatibility for carriers using VoIP gateway equipment not directly compatible with OSP
 - Supported Codecs
 - G.723r63
 - G.729r8
 - G.711ulaw
 - Supported Prefixes
 - All, as long as they are numbers
 - Symbols and marks are not supported

* Inter-carrier protocol to manage user authentication and settlement in VoIP systems. In order to realize the VoIP service between multiple carriers, it is necessary to transmit authentication and settlement information. Study is progressing under ETSI TIPHON.

NTT COMMUNICATIONS VoIP CLEARINGHOUSE SERVICE HISTORY

1999: VoIP Service in Germany

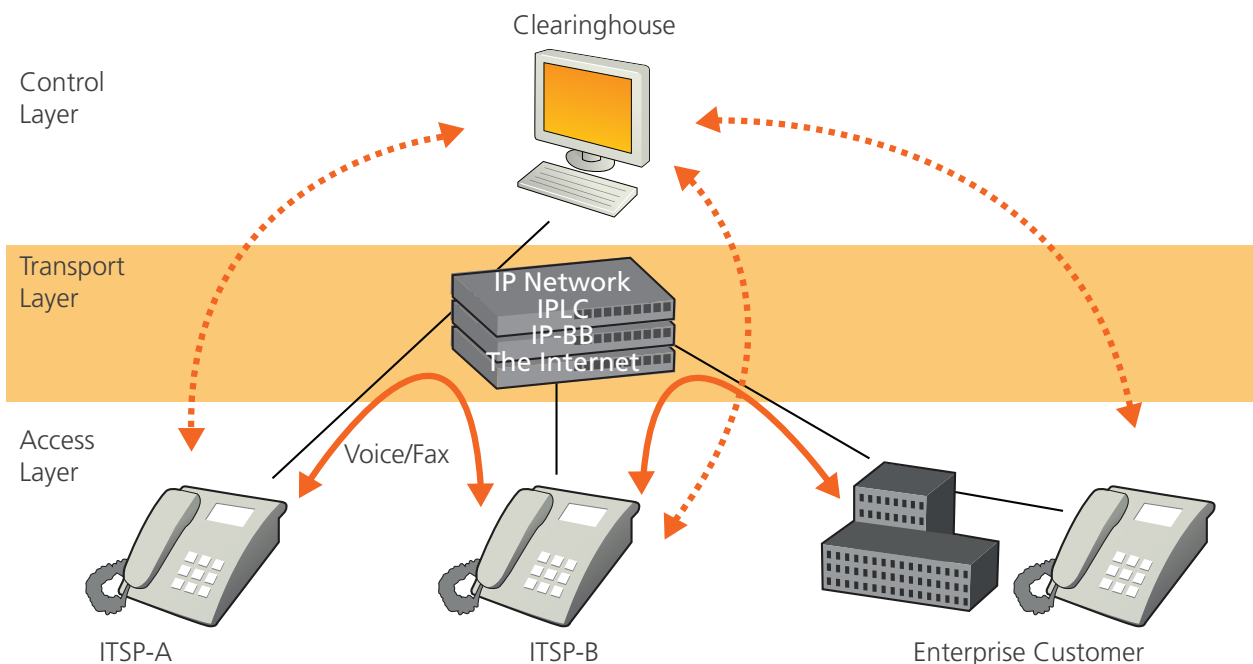
2000: NTT Communications' VoIP Clearinghouse

2001: Arcstar Global IP VPN (MPLS)

2002: ClearConference (Application)

2003: Multi-Vender/Protocol Platform (MVP Platform) VoIP over ADSL (Broadband)

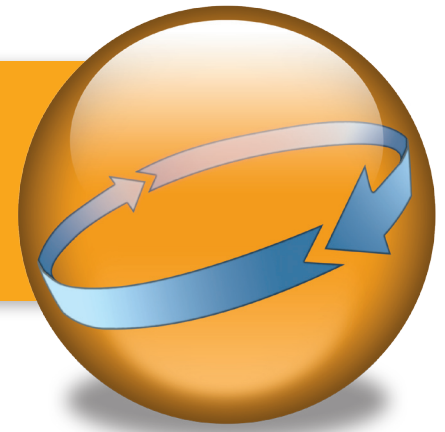
NTT Communications' next generation VoIP network is a three layer architectural structure, providing a single point of contact to our VoIP Clearinghouse customers.



NTT Communications

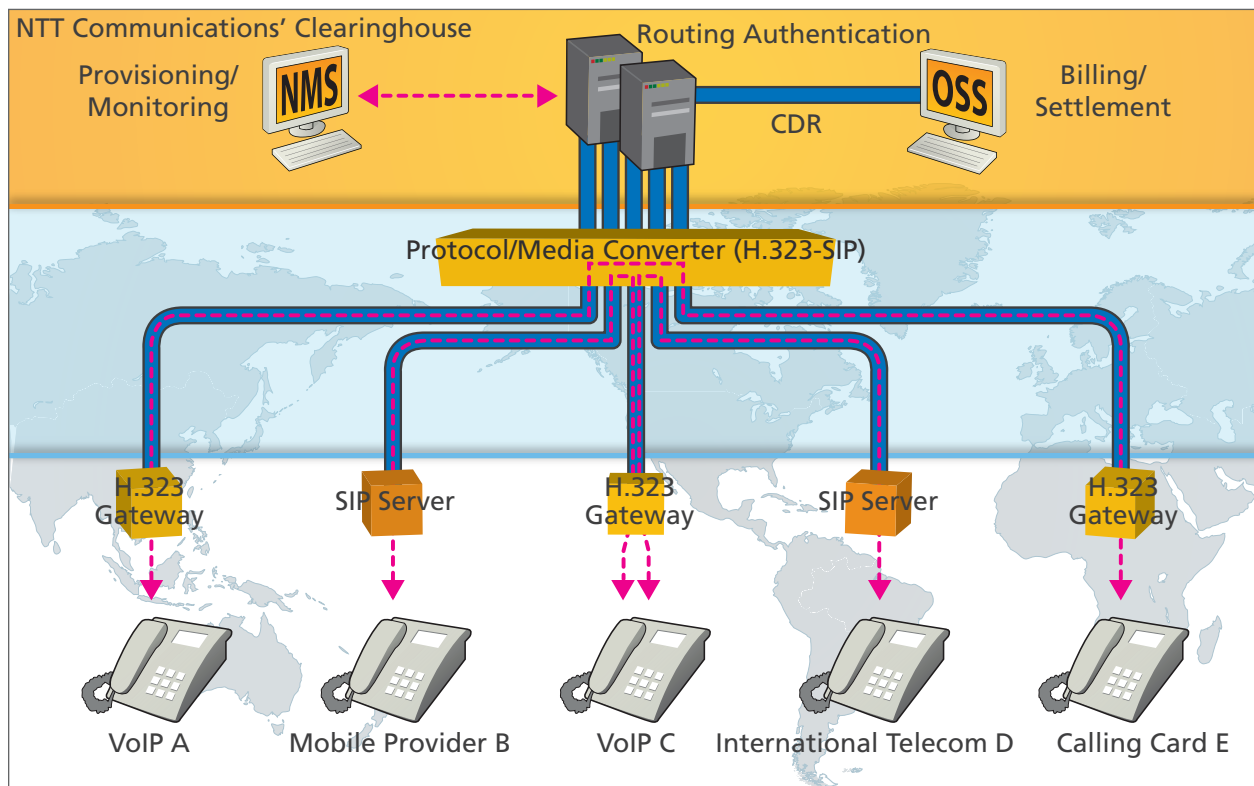
VoIP Clearinghouse

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VoIP PLUS

NTT Communications' VoIP Clearinghouse services use the public switched telephone network so we can expand communications outside of a company's private network. And our services allow for more than just on-net communications. We offer seamless off-net domestic/international communications via the Public Switched Telephone Network. Our services expand corporate coverage on a global scale, while significantly reducing international telephone costs. Come join our network.



Contact us today to get started.

Phone: 1-877-8-NTT-NET

Email: Sales@us.ntt.net

Web: www.us.ntt.net

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