

headcall VoIP system

headcall is a VoIP system on internet providing video phone connectivity to all reaches of the world free of charge. headcall is built upon an advanced communication architectural framework with a proprietary peer-to-peer (P2P) technology.

Advanced framework

Over the past several years many VoIP systems have been developed in compliance with the international standard H.323 or SIP protocol. When these VoIP systems are applied to enterprise or individual levels, problems appear as a result of variance in users' network conditions. A user needs to adjust the settings of his VoIP phone to compensate for the changes in his network environment, a task usually exceeding the technical ability of a general user. The problem intensifies when changes in network environment are oblivious to the user, such as ADSL's IP changes. These changes may result in the netphone's ceasing to function. Many VoIP vendors expended much efforts to resolve these difficulties as often seen in their advertisements declaring skillful solutions for the problems. Yet, these problems have been only alleviated but never completely eliminated.

headcall has successfully evaded these problems by completely abandoning the old standards, creating a new and innovative architectural framework, and developing a powerful proprietary P2P technology. The problems that have been dogging many existing VoIP system do not even show up in the headcall system. A headcall terminal (user device) is designed to accommodate itself to the internet environment, either in a public network or a private network. A headcall device is "portable" in the true sense of the word; no adjustments to the device is required when its physical location is changed, say, from New York to California, or from Beijing to Washington D.C

Reliable P2P technology

P2P technology has been used in many internet communication schemes, such as: file download, Instant Messaging, etc. headcall has developed its proprietary P2P technology to meet the requirements for real-time and reliable VoIP services. In current P2P practices by other vendors, file downloading may be accomplished through the use of a third-party user to relay data without the parties involved being aware of the third-party participation. Such 3rd-party involvement usually results in a transmission time-delay. One-second delay though presenting no problem to a file-transfer user or even an IPTV session may be unbearable or unacceptable to a telephone user. The situation may develop during an Instant Messaging session when a third-party, unaware of its relay-server role to two other users engaged in a messaging session, unknowingly causes communication interruption by its own untimely session termination.

This undesirable situation has puzzled some VoIP vendors and prevented them from achieving telecom-quality service to their customers. And the situation is completely sidestepped by headcall's proprietary P2P technology which directly connects both ends of a call. This is accomplished through the use of a unique NAT-penetrating technique, a distinct headcall's edge over all other current VoIP technologies.

Worldwide connections at no charge

Many current VoIP vendors require its customers to pay monthly fees or purchase paid

services while claiming and promising free calls. The high cost of the system and paid services have kept these VoIP vendors from attaining rapid growths.

headcall's proprietary P2P technology enormously reduces the cost of its VoIP system and realizes, for its customers, truly free worldwide connectivity, and there is no hidden cost attached to the VoIP service, a decided advantage for headcall to rapidly spread around the world.

Complete phone system

FCC requires all VoIP vendors provide unfettered emergency calls such as 911, a basic function of a full-service phone system. Most of the current VoIP vendors have been unable to provide this critical service to their subscribers. As a responsible member of the telecom community, headcall has been designed to include this emergency-call function.

A complete phone system must also include switch facility through which incoming calls may be forwarded to their respective destinations. A traditional telephone operator may use a prefix number to provide access to its 10,000 customers. An enterprise may only offer a representative number (an enterprise switch, or PBX) to a caller for access to any one of a large number of extension phones, the call is then forwarded by the PBX to a proper extension. The switching function is an essential part of a complete phone system. headcall offers its switches for all types of phone connections and is therefore a complete phone system.

headcall covers all functions of the traditional phone system and provides universal phone service. Its development and availability symbolize the maturation of internet phone technology.

Secure phone system

The headcall system uses distributed computing technology. The headcall framework operates like traditional telephone system comprising many operating "exchanges", each exchange is responsible for an assigned segment of phone numbers. When a failure develops at one exchange, only its assigned users are affected. Each exchange is equipped with a standby backup system, and one failed device doesn't affect the proper functioning of the whole system. In its totality, headcall is an extremely reliable telephone system.

As a digital phone system, it is easy to implement encryption on headcall. In fact, encryption is a designed feature of the headcall protocol, a decided departure from H.323 and SIP. headcall encryption doesn't need additional device or investment such as VPN. headcall employs public key encryption algorithm, which is nearly impossible to decipher by an intruder with currently available computing power.

Enterprise-Friendly

No internal VoIP facility is needed for an enterprise to begin and continue using the headcall VoIP service. An enterprise needs only to purchase headcall netphones or have the headcall software installed in its computers. headcall enterprise products include: Call Centers, USB Phones, Gateways, Soft Switches, Conference Controls, etc.



more detailed info at <http://www.headcall.com/en/>

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