

Aspire™

IP Solutions

Work from anywhere!

IP technology is changing the way businesses communicate. IP offers new communication opportunities.



VoIP is an enabler, providing options not previously available:

- allow employees to work from home
- give traveling employees a connection to the office telephone system
- quickly set up small branch offices with minimum of hardware (no remote PBX required)
- link multi location business with lower communication transport costs (no dedicated phone lines)
- utilize existing data links between offices for

voice communications (no costly toll charges)

VoIP makes it possible to connect to the company telephone system from anywhere with a suitable broadband connection. A dedicated phone line is no longer required, so a home telephone linked to the office is no longer just for executives.

With VoIP it is now possible to have Customer Service and Tech Support work from home. This makes possible flexible scheduling or on-demand scheduling for work-at-home agents.

Engineers, programmers and other knowledge workers that don't require close supervision can also work from home and only come to the office for periodic status review meetings.

A VoIP home telephone has access to the rich feature capabilities, visual indications and audio signaling of the Aspire office telephone. The user can transparently place calls, receive calls or transfer calls as if sitting at a desk in the office.

For the mobile off-site employee, such as sales personnel or field engineer, NEC offers the Aspire Softphone, a software application for the laptop computer. With Aspire Softphone your computer becomes a VoIP telephone. Features of the office telephone are available with the click of a mouse. The mobile worker can place calls, receive calls or check voice mail while away from the office.

Aspire Softphone allows mobile employees to connect to the office telephone system from home, a hotel room, customer site or anywhere with broadband access to the office telephone system.



Aspire™

Why Aspire with VoIP

VoIP is the technology that transmits digitized voice signals on a digital data network. It uses a single cable connected to all terminals. It allocates signal space as-needed instead of in dedicated time slots thus giving it the potential to be more efficient.

VoIP technology provides many advantages to the customer:

Connectivity – connect from anywhere. Reduce brick and mortar expenses by deploying main office operations at remote locations. Users at home or virtually anywhere can place and receive calls transparently as if they were seated at a desk in the company office.

Mobility – work from anywhere. Connect to the office telephone system from home, a branch office, hotel room with high speed IP access to the office telephone system.

For the mobile worker, NEC offers the Aspire IP Softphone. This is a

software application that is installed on a PC enabling it to be used as an IP telephone. Plug in a USB handset or headset and click on a button to call the office or check voicemail. The onscreen display looks just like an NEC Aspire telephone and functions like it too. The functions performed on the Aspire key telephone can be replicated on the screen using a PC as your telephone. Aspire IP Softphone is compatible with the VPN provided with Microsoft Windows allowing secure communications.

One version of the Aspire Softphone even supports video communication.

Lower communication costs - The potential to lower long distance telephone costs by using the IP network instead of the telephone company switched network. (Toll Bypass)

Network efficiency – utilizes a single network for both voice and data. Use a single cable to the desktop for both voice and data. Your existing network

has potential to carry voice calls.

Peer-to-Peer means that the telephones participating in a call are connected directly to each other through an IP network. The signals travel through the IP network but do not pass through a telephone switch as it does in traditional telephony.

Maintenance efficiency – IP telephony can reduce the expense of telephone moves, adds and changes (MAC). Aspire offers web based system programming and monitoring to reduce administrative costs.

Reliability - reliable hardware from an established communications equipment manufacturer with over 100 years of telephone experience and a reputation for making reliable telephone systems. Quality and reliability are built in.

Investment protection – Today's investment is protected tomorrow. The Aspire telephone system is designed to transition to new technologies as

the need arises. No need to replace an entire telephone system to accommodate changes in your business requirements.



Communication Standards -The Aspire IP implementation supports a variety of standards enabling it to interface with other equipment.

Note: Because the IP network parameters such as delay and jitter are outside its sphere of control, NEC cannot guaranty the voice quality or reliability of an IP connection.

Aspire Feature List

FEATURES

- Internal DHCP Server
- Compatible with industry standards allowing use of 3rd party products
- Variety of terminals supported (NEC keyset, NEC IP keyset, NEC IP Softphone)
- NEC IP Terminal automatic firmware updates
- IP Terminal automatic registration with Aspire
- IP Terminal, Aspire iPhone with the functions and features of an Aspire key telephone
- IP Terminal, H.323 telephones Incoming and Outgoing calls, Hold and Transfer of Calls
- IP Terminal, SIP telephone Incoming and Outgoing calls
- IP Terminal peer-to-peer connectivity
- IP Trunk support for SIP or H.323
- Basic telephone functions

- DTMF Relay (RFC 4833)
- FAX Relay (H.323 only)
- Layer 2 QoS
- Layer 3 QoS (IP Precedence, DiffServ)
- VLAN Tagging for QoS
- Simple internal H.323 GateKeeper
- Networking by VoIP (H.323 only)
- System programming over IP using HTML browser

IP HARDWARE (circuit cards)

- 16VOIPU – Media Gateway with 16 IP channels of voice. Available 16VOIPDB daughterboard adds 16 more channels.
- 4VOIPU – Media Gateway with 4 IP channels. Can accept 4VOIPDB daughterboard which adds 4 more voice channels
- SHUBU – 8 Port Switching Hub max 8 per system, 4 per cabinet

- 4VOIPU-S - 4 Circuit IP Interface card for Aspire-S system.
- 4VOIPDB-S - 4 Circuit IP Interface daughter board for Aspire-S.

SYSTEM VoIP CAPACITY

- 512 IP Extensions (16 on Aspire-S)
- 200 IP Trunks (8 on Aspire-S)

IP TERMINAL CHOICES

- Aspire iPhone, an IP telephone looks and functions like the Aspire 34 button key telephone
- Aspire IP Adapter attaches to an Aspire key telephone to convert it into an IP telephone
- User can implement as traditional key telephone and convert to IP in the future.
- (Both Aspire iPhone and Aspire IP Adapter have 2 RJ45 connectors to

- connect to LAN and a desktop PC)
- Aspire IP Softphone, software application that installs on a PC enabling it to function as a business telephone system (for use only with NEC telephone system)
- Aspire IP Video Softphone software application with the same features as the IP Softphone plus video calling capability. (for use only with NEC telephone system)

IP TELEPHONE OPTIONAL HARDWARE

- Modules for the Aspire iPhone
- iPhone Power Failure Adapter provides connection to analog telephone line in the event of a power failure or network failure.
- IP Call Recording Adapter provides a recording jack connection for a tape recorder or speaker.