

# Aspire™ IP

**A**spire offers a variety of IP solutions to the most common business needs.

VoIP and IP technology are changing the way businesses communicate. VoIP is an enabler offering communication connectivity options not previously available.



## Telephone System Connectivity

Aspire systems connected with an IP network can:

- Converge communication by integrating voice and data for transmission on a single network.
- Utilize existing data links between offices for voice communication (no costly toll charges).
- Link multi business locations with lower communication transport costs (no dedicated telephone lines required).

- Share resources such as trunks, Operator Services or Voice Mail.

- Provide feature transparency between systems which improve employee collaboration and communication.

- Easily maintain all systems on the network from a single location, connected to the network locally or remotely.

- Quickly set up small branch communications with a minimum of hardware (IP telephones only, no branch PBX required).

## Connectivity for the Telephone User

VoIP makes it possible for users to connect to the company telephone system from anywhere with a suitable broadband connection.

- With VoIP, ACD Agents, Customer Service and Support Personnel can work from home, allowing flexible work force staffing.

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

- Whether you are in your home office or on the road, VoIP offers all the same feature rich capabilities as the Aspire key telephone.

Users can transparently place calls, receive calls, or transfer calls as if sitting at a desk in the office.

For the mobile employee, such as sales personnel or field engineers, NEC offers the Softphone, a software application for the laptop-computer. With the Softphone a computer becomes a VoIP telephone.

There is even a Video Softphone with support for a Web Cam (user provided) to provide live video conference.

Using the Softphone, 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.

The Softphone allows mobile employees to connect to the office 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 voice signals on a digital data network using a single cable connected to all terminals. It allocates signal space as needed instead of in dedicated time slots giving it the potential to be more efficient. VoIP technology provides many advantages:

**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, a branch office, hotel room, or anywhere with high speed IP access to the office telephone system. For the mobile worker, NEC offers the Softphone.

A software application 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 voice mail. The on-screen display looks just like an NEC Aspire telephone and functions like it too. Functions performed on the Aspire key telephone can be replicated on the screen using a PC as your telephone. The Softphone is compatible with the VPN provided with Microsoft Windows allowing secure communications. One version of the Softphone even supports video communication.

**Lower Communication Costs** – Offers 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, and only requires a single cable to the desktop for connection. Your existing network has potential to carry voice calls.

**Peer-to-Peer** – Means the telephones participating in a call are connected directly to each other over an IP network. The signals travel through the IP network, not through a telephone switch as 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 for 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 – The IP Connectivity Solution

### Aspire IP Features

Compatible with industry standards allowing use of 3rd party products

Variety of IP terminals supported (NEC keyset, 34-button IPPhone and 4-button IP Telephone, Softphone, and Video Softphone)

- IP Terminal, Aspire IPPhone with the functions and features of an Aspire key telephone
- NEC IP Terminal automatic firmware updates
- IP Terminal automatic registration with Aspire terminals.
- IP Terminal, Proprietary and SIP telephones have expanded call handling capabilities
- IP Terminal Peer-to-Peer connectivity
- IP Trunk support for SIP or H.323

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

### System VoIP Capacity

- 512 IP Extensions (32 on Aspire-S)
- 200 IP Trunks (8 on Aspire S)



### IP Terminal Choices

- Aspire 34-button IPPhone looks and functions like the Aspire 34-button key telephone
- Aspire 4-button IP 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
- Softphone software application that installs on a PC enabling it to function as a business telephone (for use only with a NEC telephone system)
- Video Softphone software application with the same features as the Softphone plus video calling capability. (for use only with NEC telephone system)
- 3rd party IP telephone

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Some features may be optional or available at a future date. The information herein is subject to change without notice at the sole discretion of NEC.



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To find out more about Aspire and how NEC's powerful and versatile technology platforms can work for you, visit our web site at [www.necunified.com](http://www.necunified.com) or call 800-365-1928.

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