



## Success Story

# A Network Programs IPR

## NetWhisper – A VoIP Solution

### The Challenge

To develop an end-to-end VoIP based solution with a support to interact with PSTN



### The Solution

The Network Programs team successfully developed a VoIP based end-to-end solution. The product solution involved H.323 based VoIP terminal stack and gatekeeper stack, a VoIP terminal application (NetWhisper), H.323 Multi Conferencing Unit (MCU), H.323 compliant proxy and H.323-PSTN Gateway. The stack contains H.225 (Q.931 and RAS), H.245, RTP, RTCP and a driver module providing inter-module communication through system-independent message queues architecture.

NetWhisper TM (Terminal) is a H.323 compliant terminal application that provides a two way full-duplex voice communication over the LAN and WAN (provided the required bandwidth is available throughout the duration of call). It provides a simple-to-use GUI with all major functionality available at a single click.

NetWhisper TM (Gatekeeper) is a H.323 compliant gatekeeper stack that provides a registration and admission of a call with authentication and status reporting. This is an optional component and two parties can talk to each other directly or through a gatekeeper.

H.323-PSTN gateway – to place and receive calls from VoIP to PSTN network and vice versa.

H.323 proxy – to place calls from a terminal running on internal company LAN behind firewall.

H.323 MCU – to establish teleconference call between different parties.

India Japan USA Australia

◆ Telecom ◆ Datacom ◆ Embedded

Onsite ◆ Offshore

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Quality Takes Us Ahead

## Benefits

- Total end-to-end fully tested H.323 compliant VoIP solution is available under one roof
- The VoIP stack provides a rich set of APIs to enable third party applications development
- The stack architecture is scalable and modular
- The VoIP solution is interoperable with any third party H.323 compliant software
- The terminal application (Net Whisper) supports features like answering machine, LADP, gatekeeper, H.323 proxy, mute and DND

## Features

- Full duplex audio communication
- Directory support based on LDAP so that one can just type the name of the person to call
- In-built answering machine (optional) to avoid missing the important calls
- Mute/Hold option to prevent the

## More Features

- In-built answering machine (optional) to avoid missing the important calls
- Mute/Hold option to prevent the remote party from hearing discussions
- QoS Marking so that audio traffic can get the highest priority while traversing the Internet
- DND (Do Not Disturb feature) to help one dodge a call by letting the in-built answering machine take the message on his behalf
- Easy to use GUI based configuration to help in getting started in an easy to use mode
- Works with the NetPcPhone device, which is a sleek telephone, connected to the USB port of the PC
- Support for enabling and disabling Gatekeeper support
- Call Model can be direct or gatekeeper routed
- Proxy for VoIP calls with firewall
- Gatekeeper ensures user policy configuration for call admission control is supported
- Gatekeeper ensures call related data is gathered for billing application use
- Available on Windows platform