



## VoIP Packet Optimization Software For Linux

- **Greatly Reduces Network costs**
- **Improves voice Quality**
- **Reduces Network Latency and Jitter**
- **Full Mesh networks supported**
- **Operates over Wireless and Satellite links**
- **Increases network Security**
- **Fully Network Managable**

The Netrix Network Exchange **VoIPAK software** from NSGDatacom is VoIP packet optimization software for trunking multiple SIP and MGCP calls. The **VoIPAK software** runs on a customer provided PC platform under a Linux operating system. Easy to install and configure, the software combines voice packets from multiple VoIP calls destined for the same location into a single IP packet. A **VoIPAK** device at the recipient location reconstitutes the original voice packets and forwards them to the end destination. **VoIPAK** software reduces the effects of network latency and jitter, greatly improving the reliability and audio quality of VoIP calls. It works in both point to point and fully meshed applications and operates completely transparently to users at all times.

By using **VoIPAK software** bandwidth optimization the capacity of an IP data link carrying G.729/A, G.723 or other compressed VoIP traffic is at least doubled and may easily be increased to over three times its original capacity:

<b>Bandwidth Available</b>	<b>Standard VoIP</b>	<b>Using VoIPAK*</b>
64 Kbps	2 calls	4 calls
256 Kbps	8 calls	23 calls
512 Kbps	17 calls	47 calls
1024 Kbps	34 calls	104 calls
2048 Kbps	69 calls	220 calls

*Even for a single voice call the bandwidth used may be reduced by more than 50% without any loss of audio quality.*

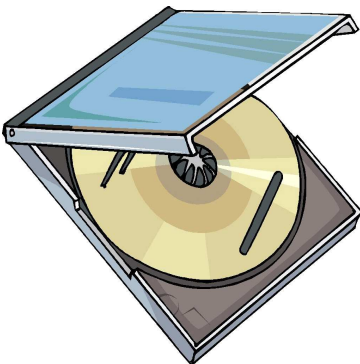
The **VoIPAK** is designed for use over all satellite, wireless and terrestrial links. Fully supported by the **NetrixView** Network Management System, the NMS interface provides GUI support for remote configuration, diagnosis, statistical call analysis and other management functions. A range of **VoIPAK** hardware platforms are also available for CPE and Central Office applications which are fully interoperable with other products in the Netrix **VoIPZIP** and **Network Exchange** product line.

**VoIPAK software** is easy to install and automatically operates in point to point and full mesh network topologies. Voice and IP data can be transmitted on the same links without negatively impacting voice quality.

Originally developed for use by the US Military, **VoIPAK** technology is currently installed in many mission critical networks worldwide. The Netrix series products continue to provide dependable voice and data transmission in call centers, military, transaction processing, financial, airport, service provider, and other enterprise applications.

Netrix **VoIPAK software** operates with all other standard VoIP packets, including G.711, G.723 and G.729.

\* Typical measured results for highest improved quality voice. Greater capacity can be achieved using silence suppression and other configurable options.



Communication solutions from

**NSGDatacom**  
*extend. evolve. innovate.*



## Performance guide

- Point to point or full mesh
- Typically supports from 300 to 800+ simultaneous calls using 1GHz to 3GHz processor \*

\* Higher capacities achievable. Exact performance is dependent on configuration, network architecture, number of operating simultaneous endpoints, etc.

## Flexibility

- Inter-operable with Netrix 2205 series product line
- SIP gateway functions
- High quality, low bandwidth compressed voice and data over IP or Frame Relay
- All ports and channels are software configurable via the GUI

## System Requirements

- Processor: 800MHz + Intel: Pentium 4, Pentium M, Core or Atom, AMD Athlon 64, or later.
- 256 MB of RAM (512 MB recommended)
- 10GB+ of disk space
- Linux operating system. A reasonably modern 32-bit Linux environment is required. If running a 64-bit Linux distribution its 32-bit compatibility environment must be installed.
- One or more Ethernet ports

Software may operate on a workstation, soft PBX or diskless PC.

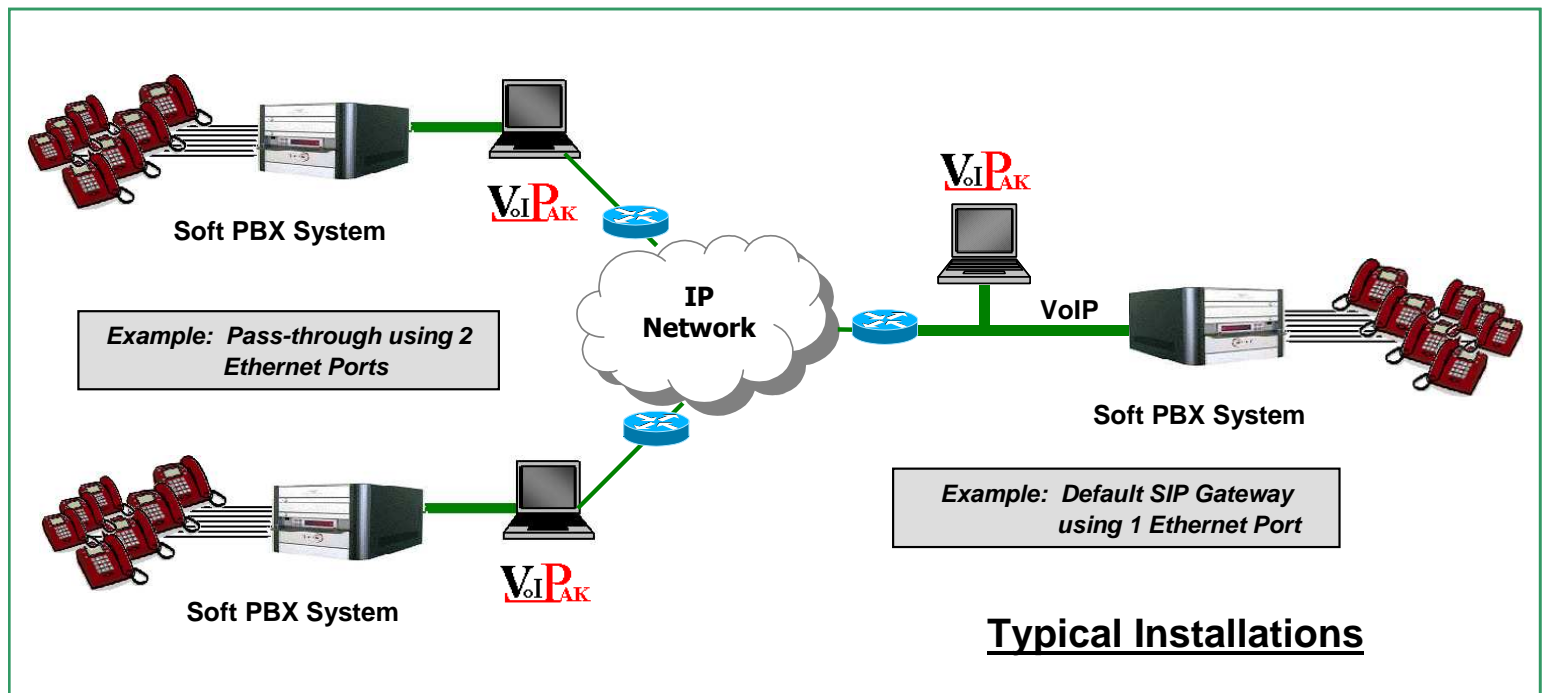
## Management

- Local craft interface.
- NMS Graphical User Interface (GUI)
- Configuring, monitoring and troubleshooting over public, private or hybrid networks.
- Distributed management of existing equipment via Simple Network Management Protocol (SNMP).
- MIB 2.0 for SNMP traps.

## General

- **Physical**
  - USB Key required for software activation
  - Keys Available to support:
    - Up to 8, 16, 32, 64, 90, 128, 256, 512, 1024, unlimited calls

Overflow calls may be configured to be blocked or passed transparently.



**NSGDatacom Inc.**

[www.nsgdata.com](http://www.nsgdata.com)

Chantilly VA, USA

703-793-2000

Specifications subject to change without notice

Copyright © 2012 NSGDatacom, Inc. All rights reserved (2.5-060508)