NEC

UX5000

InRouter

The UX5000 InRouter offers an intelligent, all in one networking and monitoring solution for NEC communication servers. It reduces costs by simplifying the deployment, management and security of converged voice, video and data networks. The InRouter includes a single T1 WAN interface or a single Ethernet WAN and an integrated 4-port managed Ethernet switch with VLAN support.

Feature-Rich and Secure

The InRouter is packed with features including:

- A VoIP application layer gateway (SIP) that resolves Network Address Translation (NAT)/firewall traversal issues
- VoIP-aware VPN/Firewall
- DHCP Server
- NAT/Port Address Translation (PAT)
- Management for HTTP, HTTPS, SSH, Telnet, SNMPv1 and SNMPv3.

The InRouter also includes invaluable security features such as IP Security (IPsec), Stateful Packet Inspection (SPI) Firewall, and an optional media-aware Application Layer Gateway (ALG).

A Plug-in Solution for UX5000 Communication Servers

The InRouter is a plug-in blade solution for your converged network appliance needs. It is a data router, Ethernet switch, firewall, and VoIP Application Layer Gateway (ALG) with a single management interface. The InRouter delivers reliability and performance.

Superb Quality of Service

The InRouter provides excellent Quality of Service (QoS) through:

- Packet prioritization
- Priority queuing
- Data traffic shaping for VoIP calls
- Differentiated Services (DiffServ) marking/policing
- Manages up to 16 calls simultaneously

Simplified Troubleshooting

The InRouter passively monitors call quality for issues such as jitter and latency while it compiles Mean Opinion Score (MOS) statistics. It can isolate LAN/WAN problems from the router and also includes additional diagnostics such as TCPdump, PING, and Traceroute.

Distinguished by Excellence

UX5000

Interfaces	
T1 WAN	1
Framing	ESF/D4
Line Coding	B8ZS/AMI
Line Build Out	0,7.5,15db
Connector	RJ45
PPP	Yes
Frame Relay	Yes
HDLC/cHDLC	Yes
Ethernet WAN	1
Auto-sensing	Yes
10/100 Mbps	Yes
Duplex	Full or half
Ethernet LAN	4
10/100 Mbps	Yes
Duplex	Full or half
Managed VLAN	Yes
Loop Start:	Yes
USB Ports:	2
Console Connector	DB9 Male

Security	
SPI Firewall	Yes
VoIP Protocol Aware Firewall	Yes
Dynamic Network Address Translation	Yes
Static Network Address Translation	Yes
Port Address Translation	Yes
Denial of Service Protection:	
• SYN Flood	Yes
• UDP Flood	Yes
• ICMP Flood	Yes
• Fragment Flood	Yes
IPSec	Yes
IKE Key Management	Yes
3DES	Yes
AES	Yes
SHA-1	Yes
MD-5	Yes
IPSec Hardware Acceleration	Yes
Number of Tunnels	Up to 15
IPSec	Yes

Passive Call Quality Monitoring	
Per Call Statistics	Yes
LAN Side Measurements	Yes
WAN Side Measurements	Yes
Mean Opinion Score (MOS)	Yes
Bad MOS Score Alarms	Yes
Below Threshold MOS Counters	Yes
MOS Degradation Due to Network Impairments	Yes
Jitter	Yes
Packet Loss	Yes
Consecutive Lost Packets	Yes
Total # of RTP Packets Received	Yes
Sum of Received Sequence & Expected Packets	Yes
Out of Sequence Packets	Yes
Average Packet Loss Burst Length	Yes
Estimated Jitter Buffer Delay	Yes
Estimated Jitter Buffer Packet Discard Rate	Yes
Probability of Degradation Due To:	
• LAN Congestion	Yes
• Router Congestion	Yes

Traffic Management/ QoS/Routing	
Class-based Queuing	Yes
Prioritization on IP	Yes
Prioritization on VoIP Protocol	Yes
Traffic Shaping	Yes
Guaranteed Bandwidth	Yes
Upstream Bandwidth Management	Yes
Downstream Bandwidth Management	Yes
VoIP Call Admission Control	Yes
Diffserv Marking	Yes
Diffserv Policing	Yes
IP Routing	Yes
Secondary Address/Sub-interface Support	Yes
VLAN-802.1Q	Up to 16

System Services	
DHCP Server	Yes
Local TFTP/FTP Server	Yes
Automatic TFTP/FTP Download on Restart	Yes

Certification	
UL, CE, FCC Part 68 & 15, Industry Canada	Yes

To find out more about UX5000 and how NEC's powerful and versatile technology platforms can work for you, visit our web site at www.necunified.com or call 800-365-1928.

Empowered by Innovation

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