

Extend secure business
communications over
the Internet with 3Com
teleworker solutions

OVERVIEW

The 3Com® IP Telecommuting Module delivers the benefits of the 3Com Converged Application Suite to users connecting to the enterprise network from remote locations. With the module, home office workers, traveling employees and other authorized users can securely access their company IP telephony system over the Internet, taking advantage of a wealth of communications applications utilizing the Session Initiation Protocol (SIP).

Because SIP dynamic port allocation is not recognized by conventional firewalls, the only way to enable these firewalls for SIP traffic is to open the ports that will be used by that traffic. Unfortunately, this action exposes the enterprise to security risks. To mitigate these vulnerabilities, the 3Com IP Telecommuting Module provides SIP-aware security by first monitoring SIP signaling protocols, such as SIP registration and session establishment, as they arrive over the Internet. The module then assigns and manages the appropriate dynamic addresses by performing SIP proxy and registrar functions. Because the registrar contains the private IP addresses of users inside the network, an existing firewall is able to relay SIP signaling to the proper destinations through its UDP or TCP ports.

KEY BENEFITS

ENABLE SECURE INTERNET ACCESS TO BUSINESS COMMUNICATIONS

The module provides access to corporate SIP-based IP communications systems from remote locations over the Internet while protecting other enterprise applications from intruders. It augments existing firewalls by specifically handling SIP-established IP media sessions while leaving the firewalls to handle all other network traffic. Internal addresses are concealed from the public Internet, but SIP clients inside the firewall can be reached by public IP addresses.

CONNECT FROM BEHIND REMOTE INTERNET GATEWAYS

The module allows SIP-based communications to be established among networks using Network Address Translations (NAT) without disrupting the NAT infrastructure. The module manages the SIP messages to enable transparent communications between different networks connecting via the Internet.

EASILY INTEGRATE WITH NETWORK INFRASTRUCTURE

Because the module is implemented at the enterprise firewall, users at remote locations do not need special hardware or additional software to gain enterprise network access.

CONFIGURE TO MATCH BUSINESS NEEDS

The IP Telecommuting Module can be configured in a variety of ways, including connected to the firewall at the DMZ or connected to the Internet and network as a standalone device. In a **DMZ configuration** all traffic passes through the firewall using static UDP and TCP ports opened in the firewall between the Internet and the module and between the module and the enterprise network. SIP clients in the enterprise are configured with the module as their outgoing proxy. The firewall continues to control security, but all SIP traffic is routed to the network through the module.

KEY BENEFITS (CONTINUED)

In a **standalone configuration** the module may be connected to both the enterprise network and the Internet, operating entirely on its own, in parallel with an existing firewall, and handling only SIP signaling and media streams. All other traffic passes through the firewall. This setup requires no configuration changes to the existing firewall but SIP clients on the enterprise network must be configured with the IP Telecommuting Module as their outgoing proxy.

Feature Highlights

Based on a security-hardened version of Linux

Works in conjunction with existing firewalls

Receives SIP signaling/requests directly from the Internet without exposing network devices to Internet threats

Transparently supports NAT

Requires no special hardware or software at the user end

Protects and extends the 3Com Convergence Applications Suite

SPECIFICATIONS

PLATFORM

IBM 306 server running security-hardened Linux

INTERFACES

2 10/100 Mbps

CERTIFICATIONS

CE, FCC, UL

PERFORMANCE

SIP Connections Setup (SIP+RTP): 0.15 s
RTP data delay (10 Mbps/100 Mbps):
0.19/0.08 ms

CAPACITY

Concurrent RTP sessions: 600 (maximum)
Recommended maximum number of
registered SIP users: 6,000

SIP FUNCTIONALITY

SIP proxy, registrar, and traffic in and out without extra proxy, SIP traffic to private IP addresses (NAT/PAT), TLS encryption, authentication of SIP users from external RADIUS

Remote SIP Connectivity

STUN server, far-end NAT traversal (also symmetric NAT)

MANAGEMENT

SNMP, Internal log to hard disk, Syslog, e-mail events

ORDERING INFORMATION

PRODUCT DESCRIPTION	3COM SKU
3Com IP Telecommuting Module Basic (includes IBM 306 server, telecommuting software, and 10 concurrent user licenses)	3CRVH702596A
3Com IP Telecommuting Module 10 Concurrent User Licenses (incremental licenses; require purchase of 3CRVH702596A)	3C0VS73009
3Com IP Telecommuting Module 25 Concurrent User Licenses (incremental licenses; require purchase of 3CRVH702596A)	3C0VS73109

Additional information on 3Com convergence solutions is available at www.3com.com/voip

Visit www.3com.com for more information about 3Com secure converged network solutions.

3Com Corporation, Corporate Headquarters, 350 Campus Drive, Marlborough, MA 01752-3064
3Com is publicly traded on NASDAQ under the symbol COMS.

Copyright © 2006 3Com Corporation. All rights reserved. 3Com and the 3Com logo are registered trademarks of 3Com Corporation. All other company and product names may be trademarks of their respective companies. While every effort is made to ensure the information given is accurate, 3Com does not accept liability for any errors or mistakes which may arise. All specifications are subject to change without notice.

400955-002 02/06

