



7,294,807
DAILY TRANSACTIONS



Network
Computing's
networkingpipeline

SEARCH

search advanced search

Free Newsletter

Glossary

Contact Us

NEWS | TRENDS | WORKS FOR ME | Q&A ARCHIVE | SECURITY | WIRELESS | INFRASTRUCTURE | VOICE/DA

April 20, 2004

Security Vulnerability Threatens Internet Protocol

By George V. Hulme, InformationWeek

A serious new security vulnerability that could affect large parts of the Internet as well as corporate networks has been identified by the Department of Homeland Security's National Cybersecurity Division and the U.K.-based National Infrastructure Security Coordination Centre. The flaw involves the ubiquitous Transmission Control Protocol used for Internet traffic, the two groups warned Tuesday.

Hackers could use the "TCP injection vulnerability" in conjunction with a vulnerability in the Border Gateway Protocol, a widely used routing protocol, to launch denial-of-service attacks that would affect "a large segment of the Internet community," according to the Homeland Security advisory.

Also, because of a "TCP/IP Initial Sequence Number vulnerability," Web sites and Internet services that rely on constant TCP sessions could be attacked and suffer from data corruption, session hijacking, or denial-of-service attacks.

Networking products from Certicom, Check Point, Cisco Systems, Cray, and Juniper Networks are among those vulnerable because of the flaws, according to the National Infrastructure Security Coordination Centre. More details are available [here](#).

Businesses using equipment from those vendors, some of which have not yet issued patches, should implement IP Security to encrypt network traffic so TCP information won't be available to attackers, reduce the TCP window size, and not publish their source TCP port information, the U.K. security center advises.

To mitigate the BGP flaw, the security center advises companies to filter both incoming and outgoing network traffic to ensure that it has a proper source IP address for the router or firewall receiving the traffic, and to implement the TCP MD5 Signature Option to check the validity of the TCP packet carrying BGP application data. Companies also should limit the amount of information outsiders can gather through domain name system resource records.

Internet Security Systems X-Force, a security resource group, says network infrastructure providers and business networks are the most vulnerable to denial-of-service attacks.

[E-mail This Story](#)
[Print This Story](#)

RELATED LINKS

- [Goin' Up The Country](#)
- [Profits Down At AT&T And SBC; Bun](#)
- [Net2Phone Launches VoWLAN Drive](#)
- [China Backs Off WAPI Proposal](#)
- [FCC, NextWave Reach Spectrum Acc](#)
- [FCC Says AT&T Must Pay For Voice Backbone](#)

**INTRODUCING QWEST iQ NET
PLUG IN. WE'LL MAKE IT**

▶ LEARN MORE

TECHWEBCASTS

Editorial and vendor perspectives
[Managing Your WAN for Maximum Business Value](#)
[Preparing for the future by protecting the past](#)

VENDOR RESOURCES

[Download winning strategies to secure your enterprise](#)
[Use IP to consolidate and cut costs: Download the Buyer's Guide:](#)

FOCAL POINTS

(Sponsored links)

[Preview the latest application service management solution](#)
[Learn about Tripp Lite's exciting new product offerings for 2004](#)

VOTING BOOTH

FREE NETWORKING NEWSLETTER 

Get the latest networking news, product info, and trends every week.

What's the most important issue in the election?

- Telecom and technology policy
- Jobs and the economy
- War in Iraq
- Taxes
- I'm not voting

**TWO-MINUTE DRILL:
Q&A WITH EXECUTIVES****[Equant: Shift To VoIP Is Inevitable](#)**

Michael Burrell, head of the enterprise telephony network and communications service provider, provides about why IP-based voice services are becoming especially among multinational corporations.

[Verizon: Telecom Regulation Needs A](#)

Verizon senior vice president Kathryn Brown discusses the state of telecom regulation, calling for a "new framework" instead of tweaks to the existing one.

[Novell: Open Source Gives Users Choice](#)

Novell vice chairman Chris Stone talks about Linux, and why users shouldn't worry about SCO Group.

TODAY'S TOP TREND**[Take A SIP Of VoIP](#)**

TCP. IP. UDP. And, now, SIP, or Session Initiation Protocol, the next protocol your network will need to support an evolving standard that governs voice over Internet (VoIP) networks. This flavor of technology's about to be served up to enterprise networks increasingly consider moving their voice over switched networks to inexpensive VoIP install.

WORKS FOR ME**[Forgetting The Customer Means A For System Deployment](#)**

Steve "Doc Net" Nitenson tells the tale of the upgrade process turned into a big snafu, all but a simple mistake: Ignoring the influential internet.

Sponsored Links: [White Papers](#) | [Sponsor Resources](#) | [WebCasts](#)

[News](#) | [Trends](#) | [Works For Me](#) | [Q&A Archive](#) | [Security](#) | [Wireless](#) | [Infrastructure](#) | [Voice/Data Integration](#)
[Free Newsletters](#) | [Networking Glossary](#) | [Contact Us](#) | [About Us](#) | [Privacy](#)

[TechWeb.com](#) | [InformationWeek](#) | [InternetWeek](#) | [Network Computing](#) | [Network Magazine](#) | [Optimize Magazine](#)
[Financial Technology Network](#) | [Wall Street & Technology](#) | [Bank Systems & Technology](#) | [Insurance & Technology](#) | [C](#)
[IT Pro Downloads](#) | [Intelligent Enterprise](#) | [Transform](#) | [Business Intelligence Pipeline](#) | [Compliance Pipeline](#) | [Desktop](#)
[Developer Pipeline](#) | [Enterprise Applications Pipeline](#) | [IT Utility Pipeline](#) | [Linux Pipeline](#) | [Mobile Pipeline](#) | [Network](#)
[Outsourcing Pipeline](#) | [Security Pipeline](#) | [Server Pipeline](#) | [Small Business Pipeline](#) | [Storage Pipeline](#) | [Web Service](#)

Copyright © 2004 CMP Media LLC. | NETWORKING PIPELINE All rights reserved. | [Privacy Policy](#) | [Terms of Service](#)