

PRODUCT & MARKETING

CISCO SYSTEMS

U P D A T E

CiscoFusion™ Internetworking Architecture To Blend Routing, ATM, and LAN Switching

On February 28, Cisco announced its new CiscoFusion architecture, which “fuses” the scalability, stability, and security capabilities of today’s routing technologies with the performance benefits of ATM and LAN switching and the management benefits of virtual LANs.

This architecture will be implemented through several current and future product offerings. Below is a list of the Cisco products announced and the shipping availability of each.

- Cisco 7010 (now)
- Catalyst (March)
- Silicon Switch Processor (May)
- ATM Interface Processor (May)
- ATM Switch (Q3CY94)

Cisco 7010

The Cisco 7010 is an extension to the Cisco 7000 family, providing high-end routing and switching technology in a cost-effective, five-slot chassis. The Cisco 7010 supports all Cisco 7000 processor and network interface boards and is currently shipping. See the table below for a comparison of Cisco 7000 and Cisco 7010 features.

Cisco 7000 Family Comparison

	Cisco 7000	Cisco 7010
Chassis slots	7	5
Configurable interface slots	5	3
Max # of power systems	2	1
Power consumption	1000 watts (3400 Btu/hr)	715 watts (2440 Btu/hr)
Acoustic noise	62 dBa	47 dBa

Catalyst

Catalyst, the first new Cisco product resulting from the Crescendo Communications acquisition, enhances workgroup productivity by increasing client/server networking performance. Cisco’s Catalyst contains eight 10BaseT ports for dedicated Ethernet bandwidth to desktops and one 100 Mbps CDDI/FDDI interface for connectivity to servers or to the core routed network. Among Catalyst’s many features are automated packet recognition and translation (APaRT) across media, thereby, providing “plug-and-play” installation. Catalyst’s stackable architecture allows interconnection of multiple concentrators with UTP wire to facilitate network growth. Catalyst is orderable now; initial shipments begin in March.

Silicon Switch Processor

The Silicon Switch Processor (SSP) is an upgrade to the current bit-slice-based Switch Processor (SP) used in the Cisco 7000 family. This field-upgradable processor will increase the aggregate performance of both the Cisco 7000 and Cisco 7010 models from 110,000 packets per second (pps) to over 250,000 pps. The SSP is orderable beginning April 4, initial shipments are scheduled for May/June, concurrent with the release of IOS™ 10.0.

ATM Interface Processor

With the introduction of the ATM Interface Processor (AIP), the Cisco 7000 and Cisco 7010 become the industry’s first standards-based ATM routers. Cisco customers can use the ATM routers both to connect physical LANs (and WANs) to an ATM network and to connect different virtual LANs across an ATM network. The AIP will initially support routing of IP, DECnet, Novell IPX, AppleTalk and Banyan VINES over ATM, with more protocols and bridging planned for subsequent releases of Cisco’s Internetworking Operating System (IOS). The AIP is orderable on April 4, for the Cisco 7000 family, with initial shipments scheduled to occur in May/June, concurrent with the release of IOS 10.0.

ATM Switch

Cisco’s ATM Switch, which supports up to 16 155-Mbps ATM interfaces, was developed through an alliance with NEC. Initially, interfaces available for the Cisco ATM Switch are TAXI 4B/5B (100 Mbps) on multimode fiber and SONET/SDH STS3c/STM1 (155 Mbps) on multimode or single-mode fiber. The ATM Switch will be available in Q3CY94.

Cisco Wins 1994 LAN Times Readers Choice Award

In the February 14 issue of *LAN Times*, Cisco was announced as the winner for routers and bridges in the 1994 Readers Choice awards. Cisco won this award last year as well.

P&M Update

Contact Bruce Byrd with questions or suggestions about the P&M Update at +1 415 688 7658 or e-mail byrd.

Competitive Announcements (submitted by Kevin Jensen)

Below is a summary of major/significant announcements by some of our competitors since the first of the year (approximately). Some of the announcements are irrelevant to our business but are included for informational purposes.

- 1) 3Com announced an Ethernet-FDDI local-area network switch, an FDDI concentrator, and a Token Ring MAU for its LinkBuilder MSH hub.
- 2) 3Com introduced the EtherLink III PCMCIA adapter for notebook PCs. They claim that this adapter is up to 110 percent faster than major competitors' adapters.
- 3) 3Com acquired Centrum Communications, Inc. as an entre into the remote access market. Centrum Communications is a California based company with technology that enables single users to access networks from remote locations.
- 4) 3Com introduced a new family of remote routers labeled the Remote Office Routers. These new routers are priced starting at well under \$2000. The first products will begin shipping during the first quarter of 1994.
- 5) 3Com expanded its LinkBuilder FMS stackable hub line with a new, aggressively priced 24-port 10BaseT hub. Prices start at \$71/port for unmanaged versions, and the hubs are available now. They are sold through 3Com's indirect channel.
- 6) 3Com issued a press release outlining the release of a new white paper entitled "How to Lower the Costs of Remote Networking." This paper highlights the Strategic Networks Consulting, Inc. study entitled "Cost of Remote Network Ownership."
- 7) 3Com and KnowledgeSet Corp. entered into a six-year contract to supply KnowledgeSet technology to 3Com. This technology will allow 3Com to deliver online help and documentation to its customers.
- 8) 3Com announced the first licensed shipment of APPN Network Node. The APPN-NN capability is shipping with Version 6.2 software for the NetBuilder II.
- 9) Cabletron announced a \$100 million, three-year product development effort that leverages the benefits of ATM to migrate customers to connection-oriented switching systems.
- 10) Cabletron demonstrated DEFINITY Fault Management, an integrated voice-data management application developed by AT&T. The application was ported to Cabletron's SPECTRUM to allow customers to manage their DEFINITY G3 Communications Systems and LANs from a single station.
- 11) Cabletron announced plans to implement a unique high-speed packet switch, that will be deployed across the company's complete family of hubs. In an additional announcement, LSI Technology announced the single-chip implementation of a packet-to-cell switch technology, called FastPacket Switch, for Cabletron.
- 12) Cabletron announced the receipt of ISO 9001 certification.
- 13) Cabletron announced a strategic partnership with Telecom Australia(TA) whereby TA will resell Cabletron's complete line of products.
- 14) IBM's Networking Hardware Division and Proteon, Inc. announced a joint development agreement that will provide a new family of low-cost, remote site internetworking equipment.
- 15) Proteon announced that its routers have received GOSIP certification.
- 16) Proteon announced OneVIEW Group Manager, a graphical user interface-based software utility designed to simplify the configuration process.
- 17) Proteon announced the April availability of its Release 15 software for the CNX and DNX family. This release increases the features required for routers in the SNA environments.
- 18) Proteon announced the DNX350 series--an addition to its low-end router offerings that is ideal for SNA branch offices.
- 19) SynOptics announced the EtherCell, a standalone switch that translates data between Ethernet and ATM. The product has one ATM port and 12 10BaseT ports. The product is scheduled to ship in April 1994 with a list price of \$9,995(US).
- 20) SynOptics and Xylogics signed a partnership designed to deliver remote offices solutions. The Xylogics Annex Three Communications Server will be integrated into the SynOptics Lattis System 5000 as a new module.
- 21) SynOptics announced Optivity 4.0 for HP OpenView.
- 22) SynOptics announced its results for the fourth quarter and the year. Quarterly revenue was \$188M while yearly revenue topped \$700M. Net Income was \$0.34 for the quarter and \$1.09 for the year.
- 23) Wellfleet announced that it has joined the Fast Ethernet Alliance. The alliance's objective is to define and standardize 100-Mbps Ethernet.
- 24) Wellfleet announced successful interoperability testing of its ATM DXI interface with switches from Fore Systems, GTE Government Systems Corp., LightStream Corp., and NEC America.
- 25) Wellfleet enhanced its support for PPP with the addition of OSI, Banyan VINES, DECnet Phase IV, and XNS.



The P&M Update is printed on recycled paper.

The following is a list of features in the upcoming software release 10.0. Contact Product Marketing (pm@cisco.com) with questions sending your e-mail with the subject header IOS 10.0 question. Release 10.0 is scheduled for May/June. Please remember that information in the *P&M Update* is Cisco confidential. It is your responsibility to safeguard the contents. DO NOT make copies or distribute the Update to unauthorized people.

- Channelized T1 card for Cisco 7000
- ATM card for Cisco 7000
- Corona Phase I
- Software compression
- Bufferin
- SMDS 15-digit E.164 addresses
- X.25 per virtual circuit routing
- NVRAM file compression
- S/W configurable boot register
- BGP4
- IPX accounting
- IPXWAN
- DECnet Phase 4'
- 64-MB RP Support
- Inverse ARP for VINES
- ISDN caller line ID screening
- ISDN subaddress support
- VINES 5.50
- AppleTalk Dial on Demand Routing
- DNSix Phase 1
- Hot Standby protocol

Please remember that information in the *P&M Update* is Cisco confidential. It is your responsibility to safeguard the contents. DO NOT make copies or distribute the *Update* to unauthorized people.

Pointers (from page 4)

Data Compression
Info Source: Corporate Server: Marketing
Info: Presentations/Marcom/Data Compression-Dhar/

Miscellaneous

Literature Request Form
Mt. View 1: Distribution Server/Literature Request Form/

Marketing Spotlight: The Seminar Team



Back Row: Misty Batch, Matt Rausenberger, Eric Markley, Marty Golden.
Front Row: RoseMary Ramirez, Tanya Andrade (not pictured: Joan Buckley)

(Editor's Note: Each month, the Marketing Spotlight will feature an individual or team that is working to assist you in your sales efforts.)

The Seminar Group:

Matt Rausenberger, Seminar Development Manger
Marty Golden, Database Specialist
Tanya Andrade, Seminar Coordinator for San Francisco and Southeast Regions, in addition to seminar operations
Joan Buckley, Seminar Coordinator for Northwest, New Jersey, and East Regions
Eric Markley, Seminar Coordinator for Northeast, New York City, Mid-Atlantic, Rocky Mountain, and Southwest Regions
RoseMary Ramirez, Seminar Coordinator for Midwest, North Central, Great Lakes, and South Central Regions
Misty Batch, Seminar Assistant
Lynette Lew, Manager of Marketing Seminars

Seminar Team Objectives

- To accelerate the sales process with prospects
- To increase awareness of Cisco and its products
- To develop seminars with Product Marketing and Business Development. Five new seminars are currently under development, with delivery beginning in March. The five seminars are:
 - Cisco's Solution for IBM Internetworking
 - Access Without Compromise (Remote Access overview)
 - Workgroup Networking Revolution (Cisco's WBU products and technologies)
 - Internetworking Overview (Workgroup, Core, Access, IBM overview)
 - High-speed Internetworking (CiscoFusion)



Cisco Systems Marketing Contacts

- Don **Listwin**, VP, Marketing
Call +1 415 688 7683 E-mail: listwin
- Vicky **Tanner**, Admin. Marketing
Call +1 415 688 4690 E-mail: vtanner

Product Marketing

Core:

Hardware

- Anthony **Alles**, PM ATM
Call +1 415 428 5424 E-mail: aalles
- Brent **Bilger**, Dir. PM, Hardware
Call +1 415 688 7671 E-mail: bilger
- Dale **Boehm**, PM 7000
Call +1 415 688 4593 E-mail: dboehm
- Sunil **Dhar**, PM Product Compliance
Call +1 415 688 4524 E-mail: dhar
- Libby **Forcey**, Admin
Call +1 415 903 8440 E-mail: lforcey
- Larry **Lang**, PM ATM
Call +1 415 688 4638 E-mail: llang

Software

- Joanie **Banks-Hunt**, PM Software
Call +1 415 688 8118 E-mail: jbanks-hunt
- Sanjay **Bhardwaj**, PM Software Release
Call +1 415 903 8796 E-mail: sbhardwa
- Kevin **Dickson**, PM ISDN
Call +1 415 428 5319 E-mail: kdickson
- Ken **Grant**, Admin Product Mktg.
Call +1 415 688 8176 E-mail: kgrant
- Christine **Hemrick**, Dir. PM, Software
Call +1 415 688 8164 E-mail: hemrick
- Paulina **Knibbe**, PLM IP Protocols
Call +1 415 688 7814 E-mail: knibbe

- Morgan **Littlewood**, PM WAN
Call +1 415 903 8810 E-mail: littlewo
- Tony **Moraros**, PM DECnet/OSI/Bridging
Call +1 415 688 8243 E-mail: tmoraros

IBM:

- Nick **Francis**, Dir. PM, IBM
Call +1 415 428 5058 E-mail: nfrancis
- Linda **Saytes**, PM IBM (DLSw)
Call: +1 415 428 5339 E-mail: lsaytes
- Marty **Thomas**, PM IBM (Channel Attach)
Call +1 415 688 4614 E-mail: mthomas
- Michael **Zadikian**, PM IBM (APPN)
Call +1 415 688 4595 E-mail: zadikian

Access:

- David **Gudmundson**, PLM Access
Call +1 415 688 4672 E-mail: dgudmundson
- Kevin **Kennedy**, Dir. PM, Access Products
Call +1 415 903 7274 E-mail: kjkenned
- Tim **Kreps**, PM Low-End Hardware
Call +1 415 688 4477 E-mail: tkreps
- Larry **Kung**, PM Cisco 4000
Call +1 415 688 4534 E-mail: lkung
- Paul **Lammerding**, PM Cisco 2500, 3000
Call +1 415 688 4685 E-mail: lammerdi
- Elizabeth **McGee**, PM Comm Servers
Call +1 415 428 5338 E-mail: emcgee
- Troy **Trenchard**, PM Comm Servers
Call +1 415 903-7534 E-mail: ttrencha

Router Management:

- Heidi **Iacurto**, PM Router Management
Call +1 415 688-7670 E-mail: hiacurto
- Sean **Murphy**, PM Net Design Tools
Call +1 415 688 7884 E-mail: murphy

Product Marketing Engineering:

- Matt **Barletta** (ATM, SMDS)
Call +1 415 903-7227 E-mail: mbarlett
- Adrien **Fournier** (IBM, Token Ring Perf)
Call +1 415 688 8205 E-mail: afournie
- David **Harris** (Comm Server, Async Modems)
Call +1 415 428 5337 E-mail: zonker
- Merike **Kaeo** (Performance, FDDI)
Call +1 415 903 7150 E-mail: mkaeo
- Bill **Kelly** (PME Mgr, Performance)
Call +1 415 688-7688 E-mail: bkelly
- Rohan **Mahy** (Generalist, Desktop Protocols)
Call +1 415 688 8195 E-mail: rmahy
- Ming **Zhou** (Router Management)
Call +1 415 903 8075 E-mail: mzhou

- Bruce **Byrd**, Marketing Programs
Call +1 415 688 7658 E-mail: bbyrd
- Kevin **Jensen**, Competitive Mkt
Call +1 415 688 8206 E-mail: kjensen

Marcom

- Christine **Castle**, Special Events
Call +1 415 903 8823 E-mail: castle
- Sheila **DiCamilli**, Events
Call +1 415 903 8442 E-mail: sdcamil
- Pamela **George**, Dir Mkt Communications
Call +1 415 903 8424 E-mail: pgeorge
- Stephanie **Long**, European Marcom Mgr
Call +1 415 903 8891 E-mail: slong
- Diane **Merrick**, ICON Marcom Manager
Call +1 415 903 7264 E-mail: dmerrick
- Chris **Sinton**, Mgr Literature Distribution
Call: +1 415 903 7532 E-mail: csinton

Knowledge Products

- Charles **Baugh**, Dir Knowledge Products
Call: +1 415 688 8175 E-mail: baugh
- Greg **Hobbs**, Product Sales Training
Call +1 415 903 8055 E-mail: ghobbs
- Donna **Milo**, SE Training
Call +1 415 428 5464 E-mail: dmilo
- Beau **Parnell**, Mgr Headquarters Training
Call +1 415 903 7539 E-mail: parnell

Workgroup Business Unit

- Laura **Fay**, Marcom/Mkt Programs Mgr
Call +1 408 732 5548 E-mail: lfay
- Mike **Francini**, PLM Catalyst
Call +1 408 732 5584 E-mail: francini
- Debra **Gotelli**, PLM Adapters
Call +1 408 732 5507 E-mail: gotelli
- Noel **Lindsay**, PM CDDI/FDDI, Mgmt
Call +1 408 732 5543 E-mail: lindsay
- Harry **Quackenboss**, GM WBU Sales
Call +1 408 732 5583 E-mail: quack
- Jayshree **Ullal**, Dir WBU Marketing
Call +1 408 732 5948 E-mail: jayshree
- Elizabeth **White**, Sales Support
Call +1 408 732 5557, E-mail: ewhite

Fax Numbers

Product Marketing Fax	+1 415 688 7666
Marcom Fax	+1 415 903 7555
Training Fax	+1 415 903 7117

Cisco Systems Product & Marketing Calendar



FEBRUARY '94 PRODUCT & EVENT INFO

Date	Event
4	Networking and Connectivity Conference, Wilmington, DE Contact: Sheila DiCamilli
8-11	TCEA Show, Austin, TX Contact: Sheila DiCamilli
10	Marketing Teleconference 9-10 AM PST Contact: Ken Grant
15-17	Networks Expo, Boston, MA Contact: Christine Castle
16-18	Government Technology Conference, Austin, TX Contact: Sheila DiCamilli
21	HOLIDAY, Cisco Corporate
22	UniverCD Volume 1 Number 3 FCS
23-26	Australasian User Conference Blue Mountain, N.S.W. Australia Contact: Diane Merrick
28	9.1(10) Maintenance Release FCS Contact: Sanjay Bhardwaj

Cisco Systems will discontinue sales of the ciscoBus controller (version 1) and related interface cards effective 28 February '94. See Product Bulletin #221 for more info.

The following products are affected:

CSC-CCTL(=) ciscoBus Controller Card
CSC-FCI(=) FDDI Interface Card
CSC-C2FCI(=) FDDI Interface Card for CCTL2
CSC-HSCI(=) HSSI Interface Card
CSC-MEC2(=) 2-Port Ethernet Interface Card
CSC-MEC4(=) 4-Port Ethernet Interface Card
CSC-MEC6(=) 6-Port Ethernet Interface Card
 Contact: Paul Lammerding

28-
Mar. 9 New Hire Sales Training
Cisco Corporate
Contact: Greg Hobbs

MARCH '94 PRODUCT & EVENT INFO

Date	Event
7	Maintenance Release 9.17(8) FCS Contact: Sanjay Bhardwaj
8	CiscoFusion™ Broadcast
8-11	Comdex/Latinet Mexico City Keynote: John Morgridge Contact: Diane Merrick
9-10	Netcom Miami, FL Contact: Sheila DiCamilli
11-14	ComTech User Forum Coolool Queensland Australia Guest Speaker: Don Listwin Contact: Diane Merrick
14	Maintenance Release 9.21(2) FCS New Features: 9.21 support for Cisco 4000, 3000, and 2500, ARA for communication servers, SRB/RSRB, and STUN. Contact: Sanjay Bhardwaj
20	First Day of Spring (Spring Cleaning) Field Service Ops will accept EPROMs for recycling. Ship to: Cisco Systems Attn: Repair Center 3535 Garrett Dr. Santa Clara, CA 95054
21	Maintenance Release 9.14(6) FCS Contact: Sanjay Bhardwaj
21	UniverCD Volume 1 Number 4 FCS
28	Marketing Teleconference 9-10 AM PST Contact: Ken Grant
28	9.0(9) Maint. Release FCS Last 9.0 Maintenance Release. Contact: Sanjay Bhardwaj

28-
Apr. 6 New Hire Sales Training,
Cisco Corporate
Contact: Greg Hobbs

APRIL '94 PRODUCT & EVENT INFO

Date	Event
4	Silicon Switch Processor (SSP) and ATM Interface Processor (AIP) orderable
11-13	LAN Association, Austin, TX Contact: Sheila DiCamilli
12	Cisco 4000 4T NP FCS for US and Canada Contact: Larry Kung
18	UniverCD Volume 1 Number 5 FCS
25	Marketing Teleconference 9-10 AM PST Contact: Ken Grant
26-27	ComTech '94, Ottawa, Canada Contact: Joan Buckley

MAY '94 PRODUCT & EVENT INFO

Date	Event
2-6	Networld + Interop Las Vegas, Nevada
6	Cisco 4000 4T NP FCS for Denmark, France, Germany, Hong Kong, Japan, Mexico, New Zealand, Singapore, Switzerland, UK Contact: Larry Kung
9-18	New Hire Sales Training Cisco Corporate Contact: Greg Hobbs

MAY '94 PRODUCT & EVENT INFO

16	UniverCD Volume 1 Number 6 FCS
23	Marketing Teleconference 9-10 AM PST Contact: Ken Grant

FUTURE EVENT INFO

Date	Event
June 6-10	Networld + Interop Berlin, Germany
June 27-July 1	Cisco NetWorkers '94 Chicago, Illinois
July 25-29	Networld + Interop Tokyo, Japan
September 12-16	Networld + Interop Atlanta, Georgia
October 3-5	Cisco NetWorkers '94 Barcelona, Spain
Marketing Teleconferences: June 27, July 25, Aug. 22, Sep. 26, Oct. 24, Nov. 28, Dec. 12	
New Hire Sales Training June 13-22, July 18-27, Aug. 15-24, Sept. 19-28, Oct. 17-26, Nov. 28-Dec. 7	

Fiscal vs. Calendar Year

Fiscal Quarter	
Q3FY94	Jan. 31, 1994-May 1, 1994
Q4FY94	May 2, 1994-July 31, 1994
Q1FY95	Aug. 1, 1994-Oct. 23, 1994
Q2FY95	Oct. 24, 1994-Jan. 29, 1995

Calendar Quarter	
Q1CY94	Jan. 1, 1994-Mar. 31, 1994
Q2CY94	Apr. 1, 1994-June 30, 1994
Q3CY94	July 1, 1994-Sept. 30, 1994
Q4CY94	Oct. 1, 1994-Dec. 31, 1994

POINTERS

Press Releases

The following press releases were distributed since the last issue. Press releases can be obtained online from the corporate server. (Info Source:Corporate Server: Marketing Info: Marcom/PR/FY'94/)

- Cisco Systems, Inc. Announces Stock Split (Feb 8). Filename: Q3 press announcements/stocksplit
- Cisco Systems Reports Second Quarter Earnings (Feb 10). Filename: Q3 press announcements/q2.94earnings
- Cisco Routers with Enhanced Novell IPX Support Certified Novell-compliant (Feb. 23). Filename: Q3 press announcements/novell.cert
- CiscoFusion announcements can be found in the folder named cisco.fusion/ (Feb. 28)

Presentations

CiscoFusion Presentation
Info Source:Corporate Server: Marketing Info: Presentations/Marcom/CiscoFusion Launch!/
/

9.21 Presentation
Info Source:Corporate Server: Marketing Info: Presentations/Marcom/Software Release 9.21/
/

Cisco 7010 Presentation
Info Source:Corporate Server: Marketing Info: Presentations/Marcom/cisco7010/
/

Catalyst Presentation
Info Source: Corporate Server: Marketing Info: Presentations/Marcom/Wrkgrp Products-Catalyst/
/

Router Performance
Info Source:Corporate Server: Marketing Info: Presentations/Marcom/Router Performance-Kelly/
/

CiscoWorks 2.0
Info Source:Corporate Server: Marketing Info: Presentations/Marcom/CiscoWorks 2.0/
/

Configuration Builder
Info Source:Corporate Server: Marketing Info: Presentations/Marcom/Configuration Builder/
/

(see **Pointers**, page 3)

Q & A

Q When do routers begin shipping without documentation?

A For the past few months, Cisco has NOT included documentation, by default, in router shipments. If the customer wants documentation, your next question should be paper (manuals) or plastic (UniverCD)? Please make sure to ask customers whether they want documentation when you write orders. We have seen an increase in the number of customers who have received shipments without documentation and were unaware that they had to request it on the order.

Q Can Cisco's authentication features be used on a communication server port being Telnet'ed to (reverse Telnet)?

A Yes. If a device is physically connected to a Cisco communication server, you can require username/login from someone trying to connect to the device over the network using either Telnet or LAT. Customers are currently connecting router and CSU/DSU console ports to a communication server to allow a network administrator to access these console ports remotely over the network. To secure access to these console ports, TACACS or the local username/password feature can be used. Furthermore, a modem can be attached to the same communication server to provide access to these ports in case the server was unreachable because of a network problem. This communication server application provides much better security than a modem attached directly to a console port, plus it reduces the number of modems that are needed.

Q What dynamic password generating token security cards are supported using Enigma Logic's SafeWord for Cisco?

A Enigma Logic's DES Gold and DES Silver cards are supported.

Q I've heard that Enigma Logic can support a Security Dynamics, Inc. (SDI) SecurID card. Is this true?

A At one time, Enigma received permission to use SDI's algorithm to support a SecurID card for one particular customer. Since then, the security market has grown, and competition between vendors has increased. Going forward, it is highly doubtful that SDI will give Enigma Logic permission to use their algorithm again, which would be required in order to support a SecurID card.

Q Will Cisco support Security Dynamic's SecurID card in the future?

A Yes. We have been talking with Security Dynamics since last year and plan on adding support for the SecurID card later this year. To support the SecurID card, Cisco will be enhancing the TACACS protocol (client and server). The enhanced TACACS server will be able to make API calls to third party security servers such as Security Dynamic's ACE/Server and others.

Q Do you need special hardware to use the 32 bit CRC software option in 9.17(7)?

A Yes. The new HIP card will support this software feature. This card will be available on April 1. The old HIP card will ignore the 32 bit CRC feature in 9.17(7). To determine which HIP card you have, use the "show diagnostics" command.

Q How do you upgrade the Cisco 2000 using the 9.1(7) spare software?

A A special PLCC extraction tool is required to make the necessary changes in memory devices. This tool is available commercially and through Cisco as product number ACS-EXTOOL=.