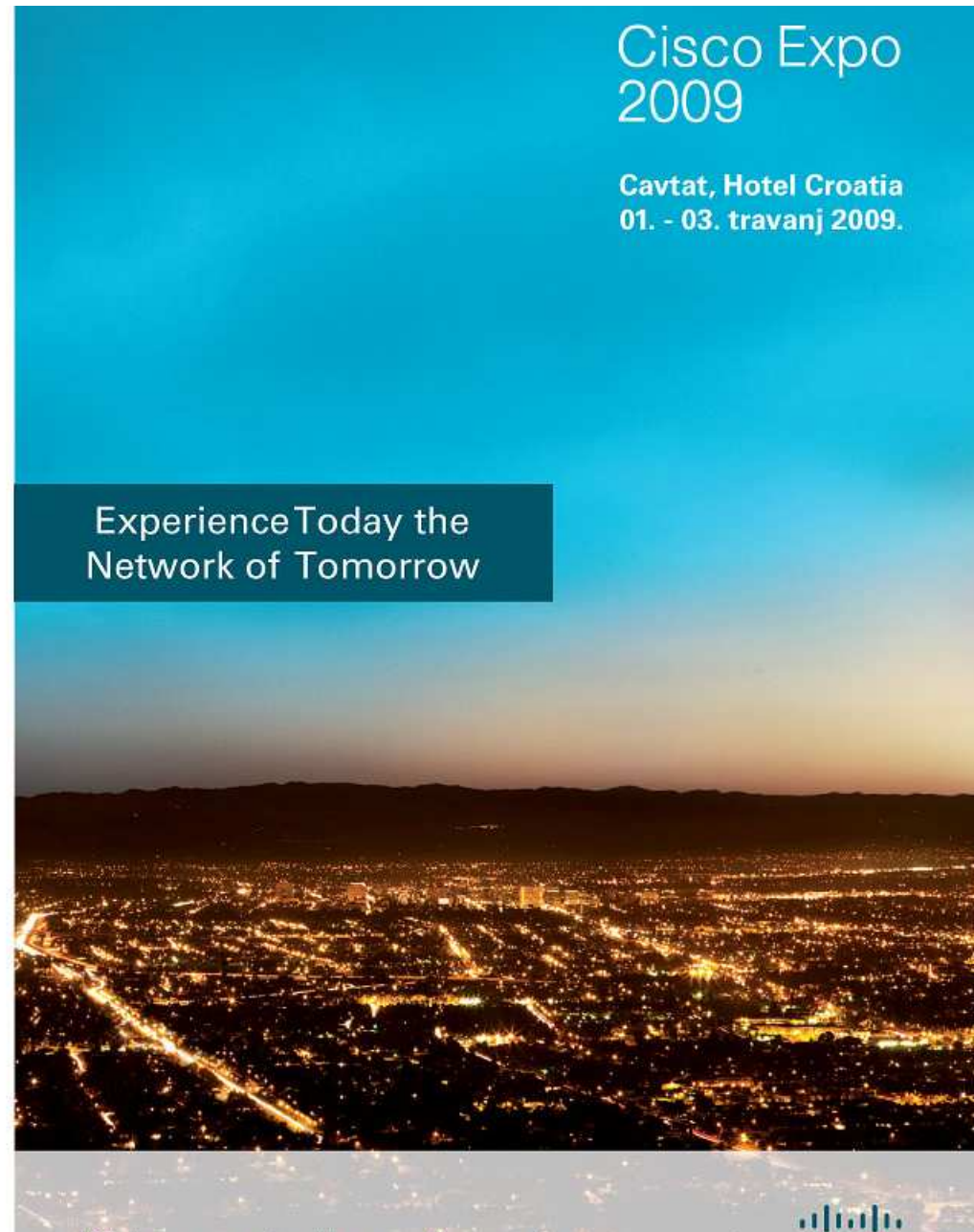




CCNA Security

Michael Furminger
Technical Advocacy
Europe



Sponzor konferencije



Partner digitalnog oglašavanja



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2009

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CCNA Security Update



Michael Furminger
Technical Advocacy

Cisco | Networking Academy®
Mind Wide Open™

Agenda

- CCNA Security Overview
- Target Audience
- Course Design
- Equipment Requirements
- Enrollment and Training
- Release Dates and Availability
- Q&A

CCNA Security Overview

- A new course that provides students with in-depth network security education and a comprehensive understanding of network security concepts
- Provides students with hands-on knowledge and skills, emphasizing practical experience, needed for entry-level job roles in network security
- Teaches installation, troubleshooting and monitoring of network devices to maintain integrity, confidentiality and availability of data and devices
- Prepares students for CCNA Security certification (IINS 640-553 exam).
- CCNA Security course IS NOT a replacement for the current Network Security 1 and Network Security 2 (NS1 and NS2) courses

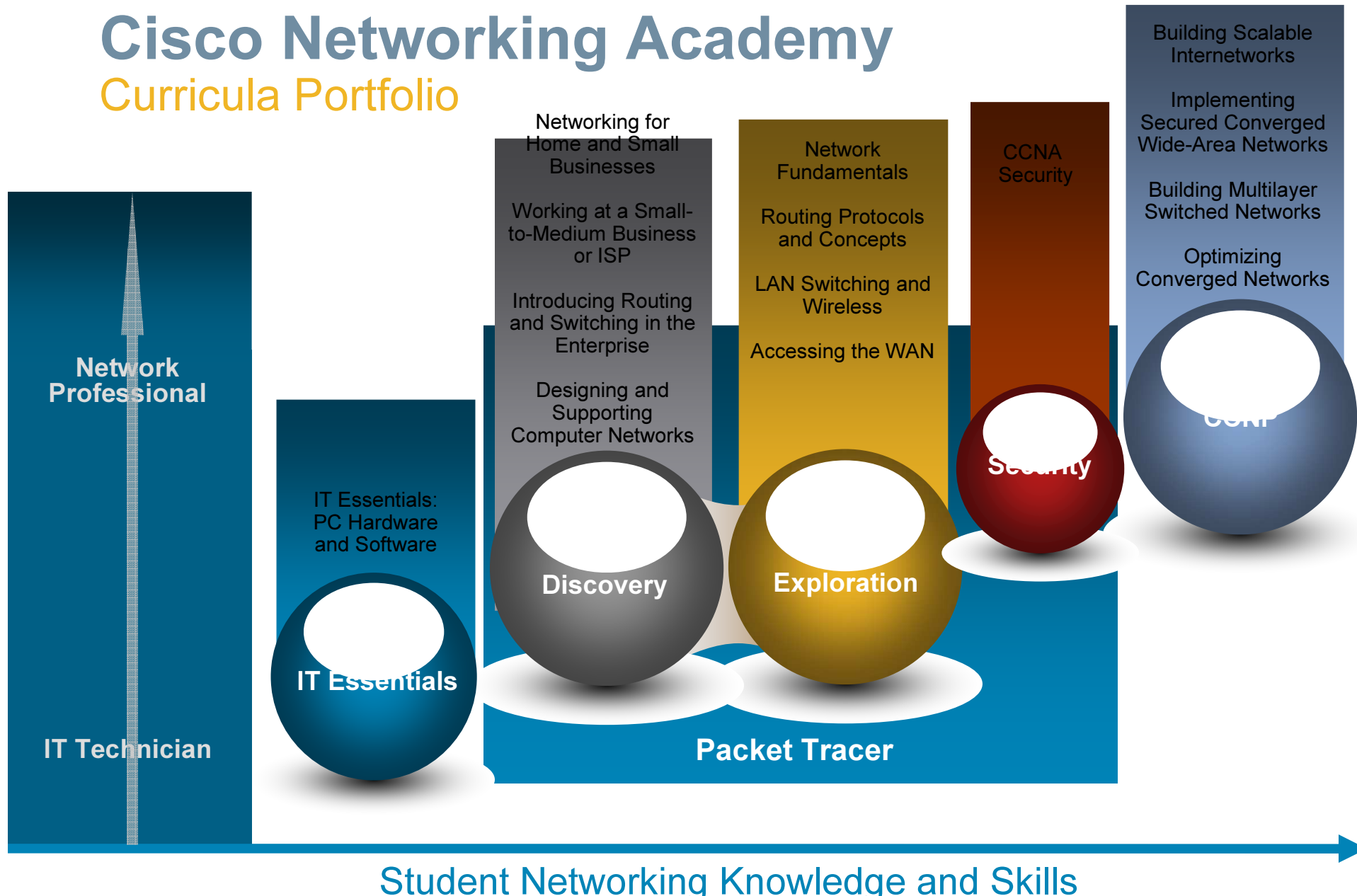
Benefits for Students

- Helps students ...

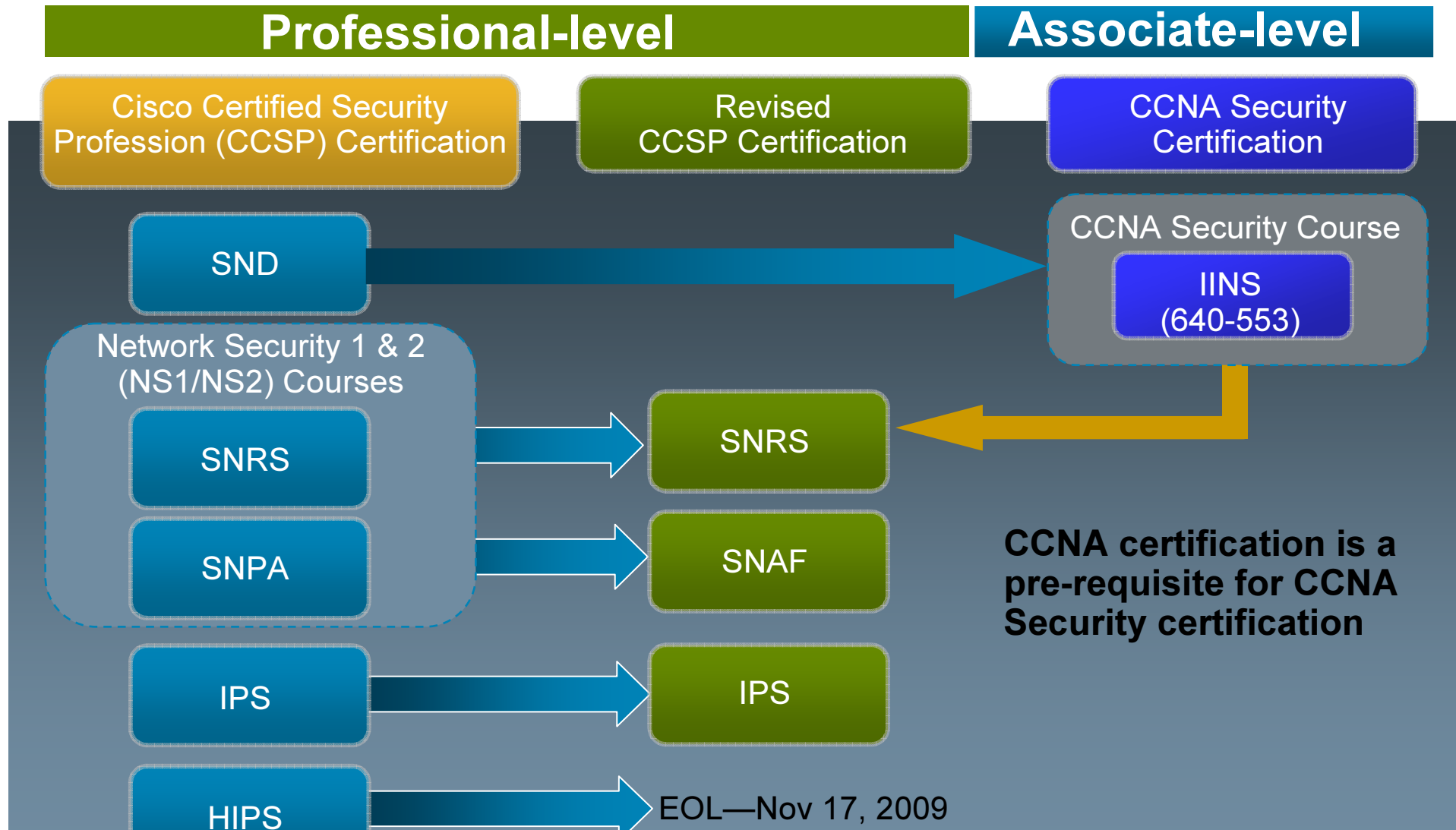
- Gain an introduction to core security technologies and how to develop security policies and mitigate risks
- Acquire the skills needed to develop a security infrastructure, recognize vulnerabilities to networks, and mitigate potential security threats
- Prepare for the CCNA Security certification exam
- Start a career in networking security
- Build a career in networking security or switch focus in their IT networking career to networking security
- Differentiate themselves in the market with specialized skills and expertise to achieve success

Cisco Networking Academy

Curricula Portfolio



Security Certifications



CCNA Security Target Audience

- Students

College and University-level students in advanced degree programs or seeking career-oriented, entry-level Security specialist skills

Career starters, Career enhancers, Career changers

- Academies – Vocational and University Sector



Course Design

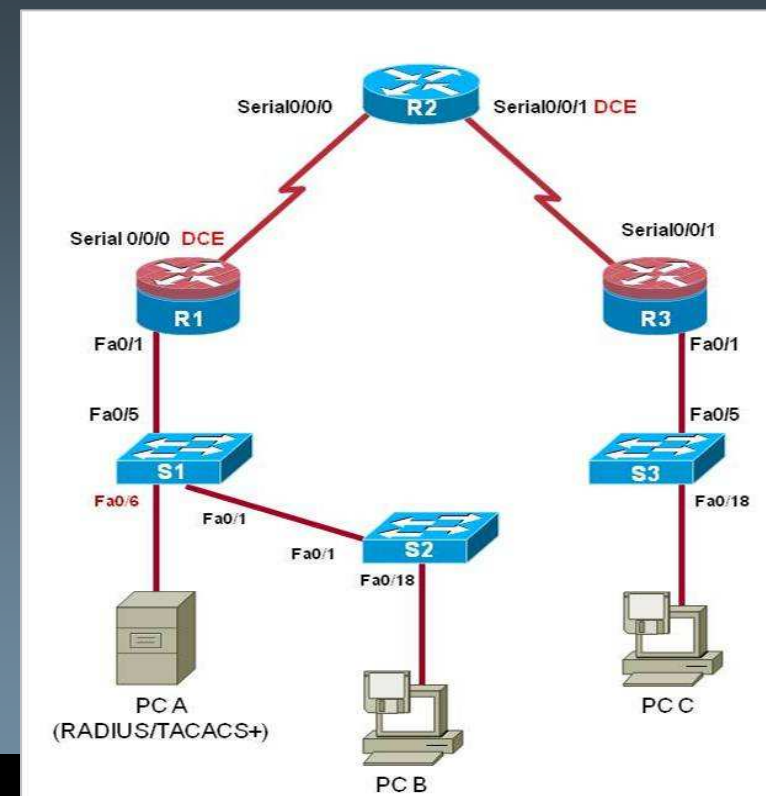
- One semester long (~70-hr) course format
- Delivered in the same Graphical User Interface (GUI) as the CCNA Discovery and CCNA Exploration curricula
- Enabled for both ILT and Blended Distance Learning (BDL) delivery
- 9 Chapters
- 1 complex hands-on lab per chapter and Packet Tracer activities
Provided as separate .zip files downloaded from AC; not packaged within the GUI
- 9 end of chapter exams; 1 final exam
- Balanced approach to theory and hands-on experience
- Available in English only, no translated versions are planned



Equipment Requirements

- Goal is to minimize equipment costs
 - Uses CCNA Discovery/Exploration equipment bundle and topology
 - NetLab compatible topology—enabled for remote operation
- Additional investment **required** for memory upgrade and Advanced IOS images

Description	Mfr.	Part Number	Qty.
Modular Router w/2xFE, 2 WAN slots, 32 FL/128 DR	Cisco	CISCO1841	3
128 to 192MB SODIMM DRAM factory upgrade for the Cisco 1841	Cisco	MEM1841-64D	2
64MB Cisco 1800 Compact Flash Memory	Cisco	MEM1800-64CF	2
2-Port Async/Sync Serial WAN Interface Card	Cisco	WIC-2A/S or WIC-2T	3
V.35 Cable, DTE Male to Smart Serial, 10 Feet	Cisco	CAB-SS-V35MT	2
V.35 Cable, DCE Female to Smart Serial, 10 Feet	Cisco	CAB-SS-V35FC	2
Catalyst 2960 24 10/100 + 2 1000BT LAN Base Image	Cisco	WS-C2960-24TT-L	3
(Optional) Rackmount Kit for the 1841	Cisco	ACS-1841-RM-19	3
Cisco IOS Release 12.4(20)T1 Advanced IP Services	Cisco	c1841-advipservicesk9-mz.124-20.T1.bin	2



CCNA Security Course Outline

Course Chapter Titles

Ch. 1	Modern Network Security Threats Goal: Explain network threats, mitigation techniques, and the basics of securing a network.
Ch. 2	Securing Network Devices Goal: Securing administrative access on Cisco routers.
Ch. 3	Authentication, Authorization and Accounting Goal: Securing administrative access with AAA.
Ch. 4	Implementing Firewall Technologies Goal: Implement firewall technologies to secure the network perimeter.
Ch. 5	Implementing Intrusion Prevention Goal: Configure IPS to mitigate attacks on the network.
Ch. 6	Securing the Local Area Network Goal: Describe LAN security considerations and implement endpoint and Layer 2 security features.
Ch. 7	Cryptographic Systems Goal: Describe methods for implementing data confidentiality and integrity.
Ch. 8	Implementing Virtual Private Networks Goal: Implement secure virtual private networks.
Ch. 9	Managing A Secure Network Goal: Given the security needs of an enterprise, create and implement a comprehensive security policy.

Enrollment and Training

- Student enrollment pre-requisite: CCNA-level knowledge required
- Instructor Training guidelines:

CCNA-level knowledge required

Required for new CCNA Security instructors; Fast track possible with evidence of CCNA Security or higher certification or industry experience

Recommended for existing NS1, NS2 or CCNP: ISCW instructors

Existing NS1, NS2 or CCNP: ISCW instructors **allowed** to teach CCNA Security course

- Instructor Training

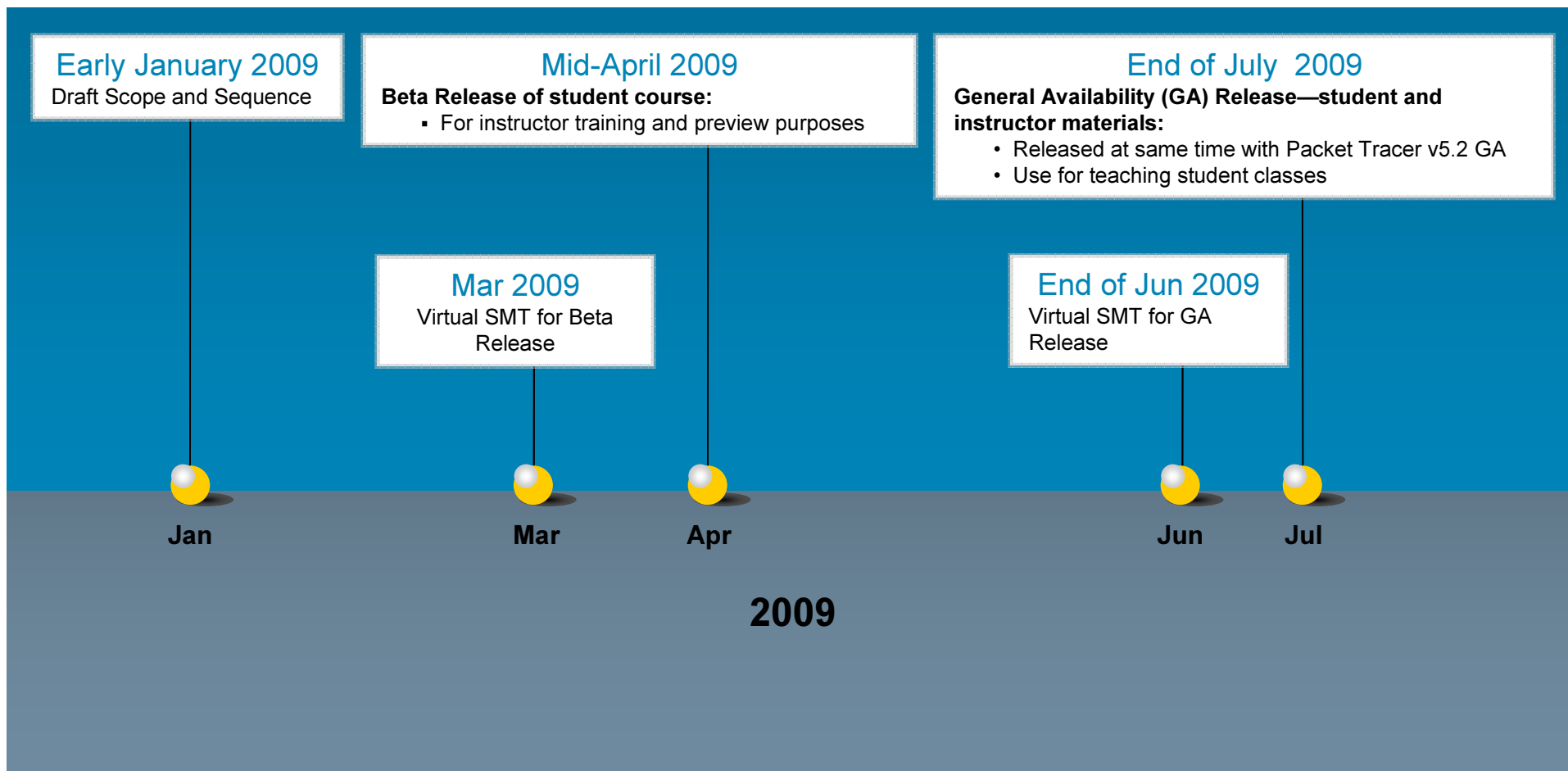
BDL format with 3-day in-person preferred; Can also be delivered 100% remote

BDL Best Practices guide developed to provide guidelines on how to deliver course in a BDL environment

- Training Support – CCNA Security Training Centers established in each region to provide instructor training; CLI will train CCNA Security Training Centers; Details still being defined.



CCNA Security Release Dates and Availability



Communications

- Announcements sent via email to all instructors:

[New CCNA Security Course announced – Sep 2008](#)

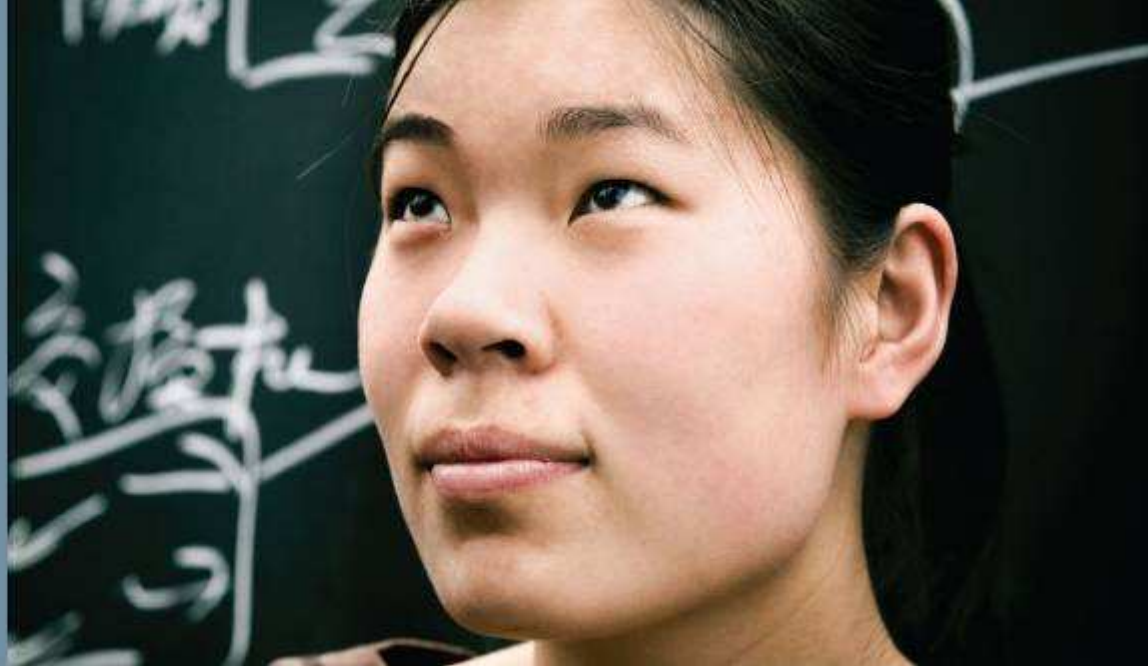
[Current NS1 and NS2 courses move to unsupported – Sep 2008](#)

[CCNA Security course availability announced – Oct 2008](#)

[Preliminary CCNA Security Scope & Sequence available – Jan 2009](#)

[FAQs](#)

Bundles

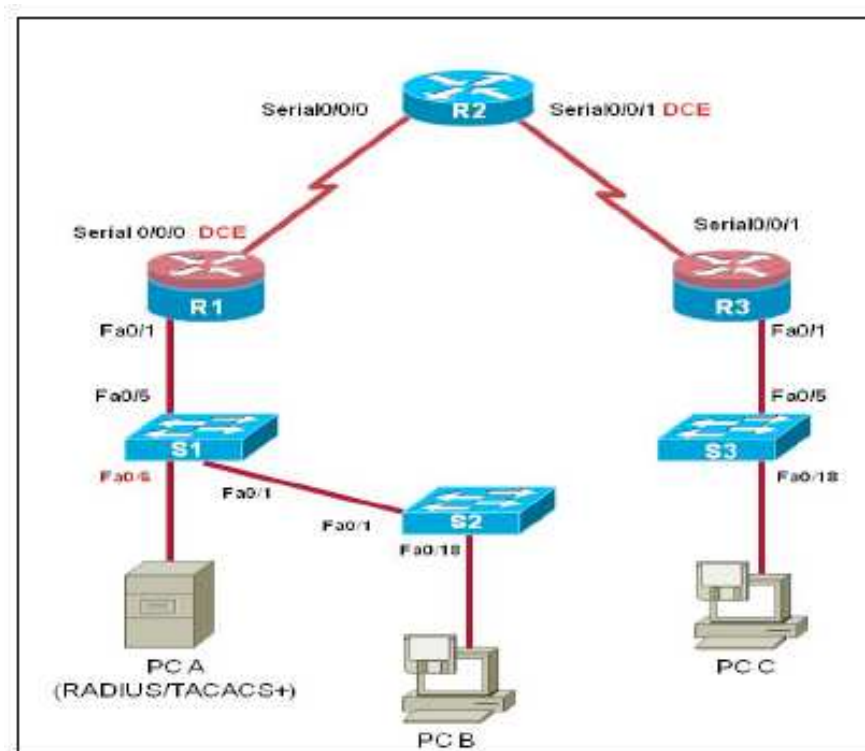


Current EUP-341 Promotion

- EUP-341 promotion renewed
24th January - 25th April, 2009
- Current contents:
 - CCNA
 - CCNP
 - NetLab
 - IP Telephony
- Bundles no longer available:
 - Wireless
 - Network Security 1 & 2
- Remember: 75% discount on all equipment bundles

CCNA Security

- CCNA Security recommended lab (CCNA Security Scope & Sequence):



x1 Cisco 1841 Router - IP Base IOS
x2 Cisco 1841 Router - Adv IP Serv IOS

x3 Cisco Catalyst 2960 Switches

Cables

CCNA Security Proposed Bundles

- **CCNA Security Starter Bundle**

x1 1841 router with **IP Base**; x2 1841 routers with **Adv IP Services**; x3 2960 switches

- **CCNA Security Standard Bundle**

x1 2801 router with **IP Base**; x2 2801 routers with **Adv IP Services**; x3 2960 switches

- **CCNA Security Premium Bundle**

x1 2811 router with **IP Base**; x2 2811 routers with **Adv IP Services**; x3 2960 switches

CCNA Security Proposed Bundles

- **CCNA Security Memory & IOS Upgrade - CISCO1841 Router**

Basic Cisco 1841 comes with IP Base IOS and 32F/128DRAM

x2 64 Flash upgrades; x2 64 DRAM upgrades; x2 Adv IP Services IOS upgrades

- **CCNA Security Memory & IOS Upgrade - CISCO2801 Router**

Basic Cisco 2801 comes with IP Base IOS and 64F/128DRAM

x2 64 Flash upgrades; x2 64 DRAM upgrades; x2 Adv IP Services IOS upgrades

- **CCNA Security IOS Upgrade - CISCO2811 Router**

Basic Cisco 2811 comes with IP Base IOS and 64F/256DRAM

x2 Adv IP Services IOS upgrades

- Availability: within 3-4 weeks



