CCNA R&S: Switched Networks
Release Notes

Last updated 22 October 2013

Purpose

Cisco CCNA® Routing and Switching is the fifth major release of the Cisco Networking Academy® CCNA curriculum. Switched Networks is the third course in the course sequence that supports transition from CCNA Exploration. These notes provide detailed information about this release, including course content, known issues, and support information.

Release Content

Table 1.   Content included in the Switched Networks course release

Component	Description
E-Learning Content	8 chapters
Labs	19 hands-on labs, two research labs and one video demonstration
Skills Assessments	1 hands-on skills assessment (using equipment) to measure skill acquisition
Cisco® Packet Tracer Activities PT version 6.0.1 or higher is required	19 Packet Tracer activities
Packet Tracer Skills Integration Challenges	7 skills integration challenge activities
Interactive Activities	34 interactive activities embedded throughout the course
Modeling Activities	16 modeling activities embedded throughout the course
Syntax Checkers	25 syntax checkers embedded throughout the course to practice entering Cisco IOS commands
Pre-Test	1 pre-test to measure pre-requisite knowledge and pre-existing knowledge This can be used to understand what students know before starting the course to direct planning and customization of the curriculum.
Section Quizzes	2 section quizzes that target specific topics within a section or across sections
Chapter Quizzes	8 modifiable chapter quizzes
Chapter Exams	8 chapter exams containing simulation-based, multiple choice, drag-and-drop, and fill-in-the-blank questions
Practice Packet Tracer Skills Assessment	1 variable practice PTSA to support skills acquisition during course progression 1 variable practice PTSA to support skills acquisition preparation for hands-on assessment at the end of the course
Practice Final Exam	1 practice final exam
Final Exam	1 final exam with field test pool items
Accessibility	8 chapters contain accessible text and media text, and all videos include closed captioning (CC)

Known Issues and Caveats

Table 2. Identifies known issues and caveats for the Switched Networks course

Item	Description
Text Area Sizing	After resizing the text area of a page, subsequent pages retain the same text area size. The text area size will return to default when the browser session ends.
Form-Fillable PDFs	Open these documents in Adobe Reader to help ensure the form-fillable fields load properly. Opening these documents in a web browser is not recommended.
Syntax Checker	This is a new tool made available to practice entering Cisco IOS commands. It is intended to familiarize students with the command syntax when implementing particular technologies. It is limited in functionality to the specific instructions provided in a Syntax Checker activity.

Certification Exam Alignment

Table 3. Identifies topics that have been removed from the new Cisco ICND2 (200-101) certification exam and topics that have been added to the ICND2 certification exam

Topics Removed from ICND2 200-101 Exam	Topics Added to ICND2 Exam
Routing Between VLANs	Troubleshooting VLAN Connectivity
Securing the Expanded Network	Understanding Spanning Tree Protocol
Implementing VLSM	Understanding and Configuring Etherchannel
Scaling the Network with NAT and PAT	Understanding Layer 3 Redundancy Protocols
	Troubleshooting IPv4 Network Connectivity
	Troubleshooting IPv6 Network Connectivity
	Implementing EIGRP
	Troubleshooting EIGRP
	Implementing EIGRP for IPv6
	Multiarea OSPF IPv4 Implementation
	Understanding and Configuring OSPFv3
	Understanding and Configuring Clients for SNMP, Syslog, and NetFlow
	Managing Cisco Devices
	Understanding and Verifying Cisco Licensing

Table 4. Identifies topics that have been added to the new ICND2 (200-101) certification exam and where they are covered in the CCNA Routing and Switching: Switched Networks course.

Note: Some ICND2 certification exam topics are not included in this course and are covered in other CCNA Routing and Switching courses. These are identified as "covered in another CCNA Routing and Switching course" in the table below.

ICND2 (200-101)	Switched Networks
LAN Switching Technologies	
1.1 Identify enhanced switching technologies, such as: RSTP, PVSTP, and Etherchannel	Chapter 4: LAN Redundancy Chapter 5: Link Aggregation Chapter 6: Inter-VLAN Routing
1.2 Configure and verify PVSTP operation	Chapter 4: LAN Redundancy
IP Routing Technologies	
2.1 Describe the boot process of Cisco IOS routers	Covered in another CCNA Routing and Switching course
2.2 Configure and verify operation status of a serial interface.	Covered in another CCNA Routing and Switching course
2.3 Manage Cisco IOS files	Covered in another CCNA Routing and Switching course
2.4 Differentiate methods of routing and routing protocols	Covered in another CCNA Routing and Switching course
2.5 Configure and verify OSPF (multi-area)	Covered in another CCNA Routing and Switching course
2.6 Configure and verify EIGRP (single AS)	Covered in another CCNA Routing and Switching course
IP Services	
3.1 Recognize high availability (FHRP)	Chapter 4: LAN Redundancy
3.2 Configure and verify Syslog	Covered in another CCNA Routing and Switching course
3.3 Describe SNMP v2 & v3	Covered in another CCNA Routing and Switching course
Troubleshooting	
4.1 Identify and correct common network problems	Covered in another CCNA Routing and Switching course
4.2 Utilize NetFlow data	Covered in another CCNA Routing and Switching course
4.3 Troubleshoot and resolve spanning tree operation issues	Chapter 4: LAN Redundancy
4.4 Troubleshoot and resolve routing issues	Covered in another CCNA Routing and Switching course
4.5 Troubleshoot and resolve OSPF problems	Covered in another CCNA Routing and Switching course
4.6 Troubleshoot and resolve EIGRP problems	Covered in another CCNA Routing and Switching course
4.7 Troubleshoot and resolve inter-VLAN routing problems	Chapter 3: VLANs Chapter 6: Inter-VLAN Routing
4.8 Troubleshoot and resolve WAN implementation issues	Covered in another CCNA Routing and Switching course
4.9 Monitor NetFlow statistics	Covered in another CCNA Routing and Switching course
4.10 Troubleshoot Etherchannel problems	Chapter 5: Link Aggregation
WAN Technologies	
5.1 Identify different WAN technologies	Covered in another CCNA Routing and Switching course
5.2 Configure and verify a basic WAN serial connection	Covered in another CCNA Routing and Switching course
5.3 Configure and verify a PPP connection between Cisco routers	Covered in another CCNA Routing and Switching course
5.4 Configure and verify Frame Relay on Cisco routers	Covered in another CCNA Routing and Switching course
5.5 Implement and troubleshoot PPPoE	Covered in another CCNA Routing and Switching course

Support

For general assistance with curriculum, classroom, or program issues, please contact the Networking Academy™ Support Desk by signing into the Cisco NetSpace™ learning environment and clicking **Help** > **Contact Support** at the top of the page.