# Cisco Packet Tracer 5.3

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# Packet Tracer 5.3 Overview

- Minor Release
  - Enhanced functionality to support assessment and gaming and their integration with content
  - Enhanced protocols and features to support entrepreneurship, broadband and health information network environments
  - Enhanced Activity Wizard functionality to support Packet Tracer SBAs and Cisco Aspire
  - Required maintenance and adjustments
- Replaces Packet Tracer 5.2
- Release date April 29th – external announcement


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# What's New in Packet Tracer 5.3

- Improved Linksys models, wireless security
- Cable and DSL enhancements
- Call Manager Express (VOIP support)
- FTP server and routers/switches - Server and Client
- Email system (SMTP – POP3) - Server and Client
- BGP – limited implementation that allows for a more realistic representation of the Internet for scenarios
- Generic IP end devices – to create more versatility in device creation
- Activity Wizard Initial Tree enhancements – more scenario variations

# PT 5.3 and CCNA and CCNP Curricula

## Version 5.3 enhancements provide new or enhanced functionality to help illustrate the following topics:

- CCNA Discovery
  - D1: improved Linksys and wireless– Generic IP end devices
  - D2: better DNS, improved DHCP, wireless security, new FTP, SMTP, POP3,
  - D3: Improved multiarea OSPF, EIGRP, BGP
  - D4: New ISR VOIP, Call Manager Express
- CCNA Exploration
  - E1: improved HTTP, DNS, DHCP, new FTP, SMTP, POP3
  - E2: Improved multiarea OSPF, EIGRP, new BGP
  - E3: Improved Linksys models, wireless security, 802.11
  - E4: New PPPoE, enhanced IPSec, Cable and DSL enhancements
- CCNP
  - Improved multiarea OSPF, EIGRP, new BGP

# Packet Tracer 5.3 Protocol Support

- Application

  FTP , SMTP, POP3, HTTP, TFTP, Telnet, SSH, DNS, DHCP, NTP, SNMP, AAA,

  ISR VOIP, SCCP config and calls ISR command support, Call Manager Express

- Transport

  TCP and UDP, TCP Nagle Algorithm & IP Fragmentation, RTP

- Network

  BGP, IPv4, ICMP, ARP, IPv6, ICMPv6, IPSec, RIPv1/v2/ng, Multi-Area OSPF, EIGRP, Static Routing, Route Redistribution, Multilayer Switching, L3 QoS, NAT, CBAL , Zone-based policy firewall and Intrusion Protection System on the ISR, GRE VPN, IPSec VPN

- Network Access/Interface

  Ethernet (802.3), 802.11, HDLC, Frame Relay, PPP, PPPoE, STP, RSTP, VTP, DTP, CDP, 802.1q, PAgP, L2 QoS, SLARP, Simple WEP, WPA, EAP

*New in PT 5.3 *Enhanced in PT 5.3

# Packet Tracer 5.3
# Demo

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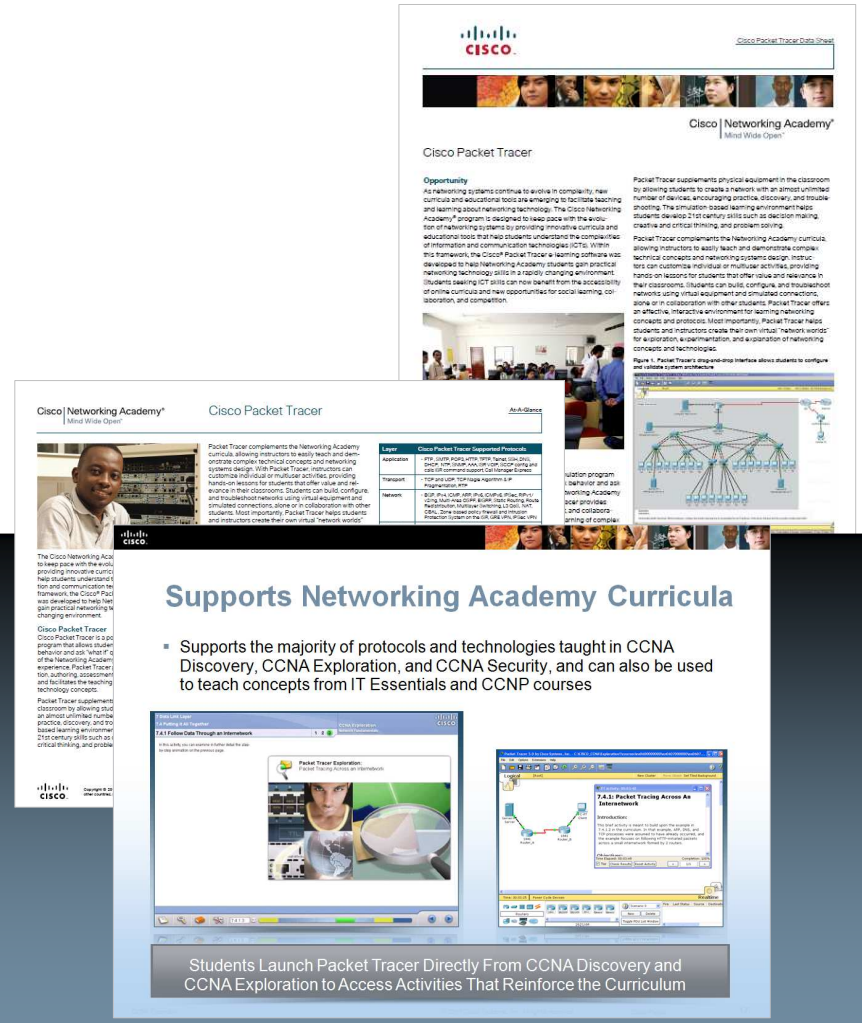
# Packet Tracer 5.3 Documents

All collateral available on Livelink and PT Course Catalog page

- Packet Tracer At A Glance
- Packet Tracer Datasheet
- Packet Tracer Overview PPT
- Packet Tracer FAQs
- Packet Tracer Support for Curricula *new!*
- Course Catalog web pages

Pre- and Post-login



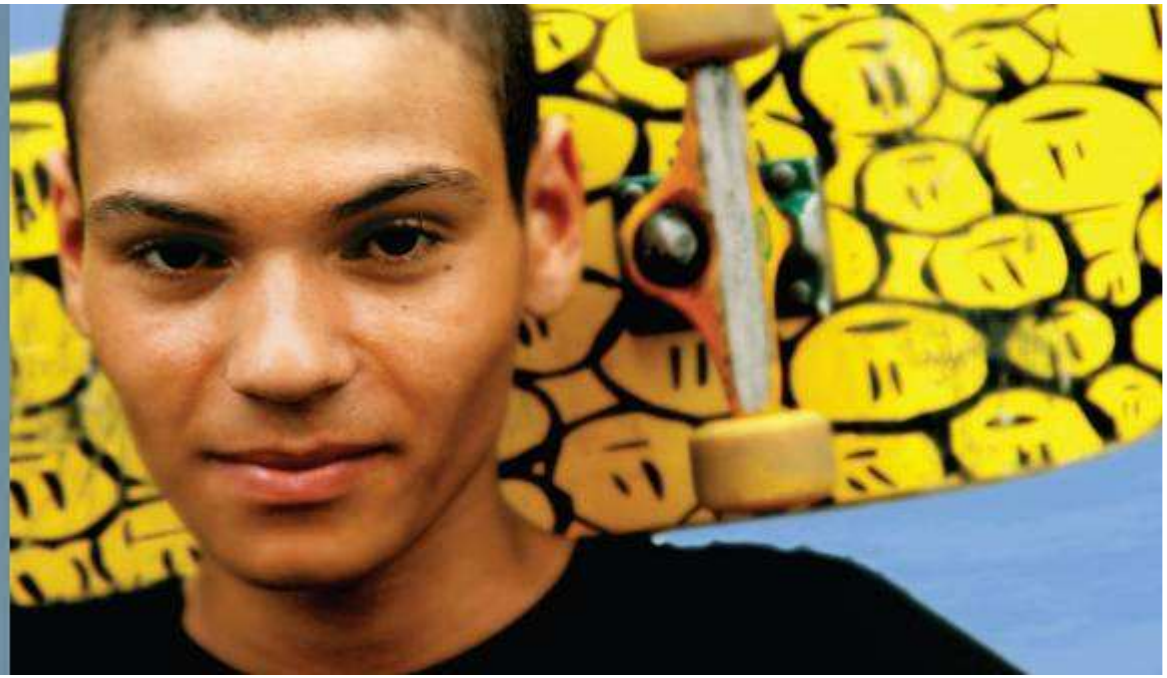
# PT Support for Curricula Resource *new!*

Cisco Packet Tracer v5.3 Support for Networking Academy Curricula

This document identifies chapters from all Networking Academy courses that include content supported by Packet Tracer 5.3. The purpose of this resource is to help instructors leverage Packet Tracer to create rich learning experiences using Packet Tracer's simulation, visualization, collaboration, and assessment capabilities

| | | IT Essentials: PC Hardware and Software | Networking for Home and Small Businesses | Working at a Small-to-Medium Business or ISP | Introducing Routing and Switching in the Enterprise | Designing and Supporting Computer Networks | Network Fundamentals | Routing Protocols and Concepts | LAN Switching and Wireless | Accessing the WAN | CCNA Security | Implementing IP Routing | Implementing IP Switching | Maintaining and Troubleshooting |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Layer | PT 5.3 Feature | ITE PC | CCNA Discovery | | | | CCNA Exploration | | | | CCNA S | CCNP | | |
| | | | D1 | D2 | D3 | D4 | E1 | E2 | E3 | E4 | | ROUTE | SWITCH | TSHOOT |
| L1 | Ethernet Straight | 8,13,15 | 1,3,4,7,9 | 1,2,3,5,9 | 1 - 10 | 1,3,4,5,6,8 | 2,7,8,9,10 | 1 | 1,2,7 | 1 | | | 2 | |
| | Ethernet Cross | | | | | | | | | | | | | |
| | Console RS-232 | | | | | | | | | | | | | |
| | Serial DCE/DTE | | | | | | | | | | | | | |
| | Optical Fiber | | | | | | | | | | | | | |
| | Telephone | | | | | | | | | | | | | |
| | Coaxial cable | | | | | | | | | | | | | |
| | Wireless | | | | | | | | | | | | | |
| L2 | Ethernet | 1,3,8,15 | 3 | 3,5,9 | 1,5,8,9 | 1,3,4, | 2,7,8,9,10 | 1 | 1,2 | 1 | 6 | | 2 | |
| | LACP/LAgP | | | | | | | | | | | | 2 | |
| | 802.11a/b/g/n | 13,15,16 | 3,7,9 | | | 3,5,9 | 7,8 | | 7 | 6 | 6 | | | 8 |
| | DTP | | | | | | | | 3 | | 6 | | 2 | 4 |
| | VTP | | | | 3,9,10 | 3 | | | 4 | | 6 | | 2 | 4 |
| | 802.1q | | | | 3,9 | 7 | | | 3,4,6 | | 6 | | 2 | 4 |
| | STP/RSTP | | | | 3,9 | 1,5,7 | | | 5 | | 6 | | 3 | 4 |
| | CDP | | | 5 | 2,3 | 3 | | 2 | 3 | 4,8 | | | | |
| | L2 QoS: CoS | | | | 5,8 | 4,5 | | | | | | | 7 | 7 |
| | HDLC | | | 5 | 7,9 | | 7 | 1 | | 1 | | | | |
| | Frame Relay | | | 5 | 6,7,9 | 5,8 | 7 | 11 | | 3 | | | | |
| | PPP | | | 5 | 7,9,10 | 8 | 7 | 1 | | 2 | | | | |
| | PPPoE | | | | | | | | | | | 7 | 2 | |
| L3 | IPv4, ICMPv4 | 8,15 | 3,5 | 4,5,9 | 1 - 10 | 6 | 5,6,9,11 | 3,4,6 | | 7 | 1, 4 & 8 | | | 6 |
| | IPv6, ICMPv6 | | | 4 | 5 | 6 | 5 | | | 7 | | 8 | | 6 |
| | L3 QoS: ToS | | | | | 1,4 | | | | 7 | | | 7 | 7, 8 |
| | IPSec | | | 8 | | 8 | | | | | 7 & 8 | 7 | 3 | |
| | ISAKMP | | | | | | | | | | 7 & 8 | 7 | | |
| | VPN | | | | 1,2 | 4,8 | | | | 6 | 8 | 7 | 3 | 9 |
| L4 | UDP and TCP | 8,15 | 6 | 7 | 1,5,8 | 4,5 | 4 | 5,7,9 | | 5 | 1 & 4 | | 6 | |
| L7-6-5 | HTTP/HTTPS | | 6 | 7,8,9 | 2,8 | 4 | 2,3 | | | 4 | 2 | | | |

# Passport21 and Gaming

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# What We're Hearing

- More emphasis on personal development, business development and soft skills
  - Communication, negotiation skills
  - Financial literacy—tracking costs, budgets, investment requirements, ROI
  - Manage business relationships
- Expand applied practice
  - Problem solving
  - Creativity
  - Decision making

# Passport21 Offerings

- A set of offerings to add to the core ICT and networking curricula
- Designed to prepare students for 21st Century careers
- Helps students discover career opportunities and expose them to attitudes, mindset and skills to compete in the 21st century
- Optional learning modules to use in a class

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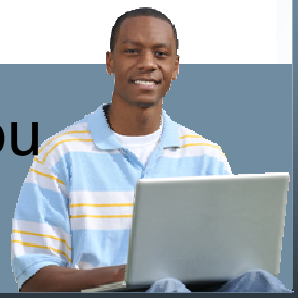
# Entrepreneurship Education

## Technology Skills

- Networking
- Security
- Wireless
- Basic Computing
- Configuration

What You Learn



## 21st Century Skills

- Collaboration
- Community
- Communication
- Problem-Solving
- Initiative-Taking

How You Learn

## Entrepreneurial Skills

- Mindset
- Innovative Thinking
- Personal and Social Responsibility
- Business Management

How You Think

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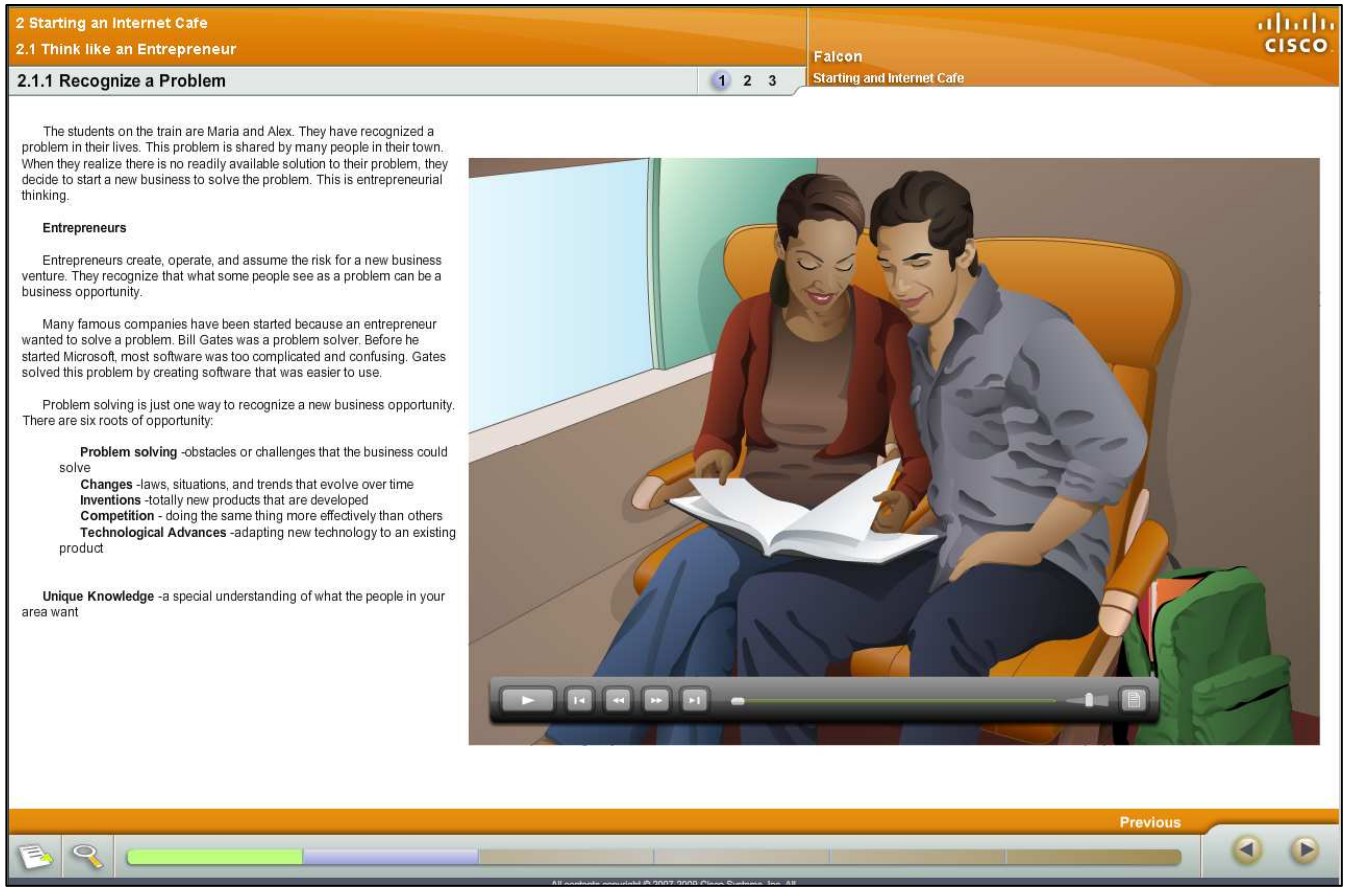
# Passport21

# Case Studies

## Online Case Study Modules with Realistic Scenarios





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# Cisco Aspire

## An Engaging Game for Experiential Learning Within the Context of Realistic Scenarios

- Multiple levels, multiple paths
- Multiple contract choices
- Simulated time and economy

- Money management
- Problem injector

- Skills proficiency indicator
- Networking simulation

# Key Facts

- Pasport21 is a set of complementary materials

- Materials are available in English only

- Instructors will be able to select the ones available for a specific class.

- Focus on Entrepreneurship and Broadband knowledge

- Materials will be available in May


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# Q and A

File de traducción y demo:
http://cisco.webex.com/meet/joesquiv


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