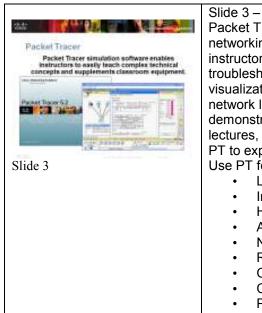
## **Presenter Speaker Notes: PT Overview**

	T A. P C 1/D
	Topic, Audience, Goal/Purpose of this PowerPoint presentation:
	1. Who is the intended audience?
	All Academy Roles (External and Internal); primarily related to CCNA content
	2. What is the intended learning environment for using this PPT? Remote; 30 minute session using WebEx and the WebEx Internet Phone feature. You may use another web conferencing tool along with a conference call or a phone bridge. Also, these materials may be easily modified for use in an in-person environment.
	<ul> <li>3. What is the goal/purpose of these materials? For internal academy staff and for instructors, LMCs, Curriculum Leads, etc. to become familiar with Packet Tracer</li> <li>What is Packet Tracer?</li> </ul>
	Why is PT beneficial?
	<ul> <li>How to acquire PT</li> </ul>
	<ul> <li>Packet Tracer Forum</li> </ul>
	Tools for Teaching PT
	<ul> <li>Distribution of PT</li> </ul>
	<ul> <li>Reporting Bugs</li> </ul>
	<b>NOTE:</b> This PPT and Speaker Notes were created by updating the "Overview of Packet Tracer" PPT and Presenter Notes. The updates are based on PT5.2 and higher (RC1) on July 20, 2009.
	Cisco Networking Academy Program
cisco	Packet Tracer: Overview Session
	Welcome. This 30-minute session will not allow much opportunity for you to
Packet Tracer: Overview Session	speak so during the session please feel free to type questions in the WebEx chat window.
	Thank you for participating in this overview of Packet Tracer. To get an idea of
Speaker Name 20PT	the experience-level of this group, I would like to ask you a few questions and
Clisco (Networking Academy*	ask you to use the "yes" and "no" indicators to respond. If you look in the right-
Mind Wilde Davier*	hand side of the WebEx window you should see the yes and no buttons. Click
Title Slide	on the <b>yes</b> button to demonstrate that you have found it. Thank you.
	Have you seen or tried any version of PT before?
	Have you used any version of PT before in your teaching?
	The goal of this session is to acquaint you with PT so that you are prepared to talk about PT with the Academy community.
	Slide 2 – Packet Tracer Overview Agenda
	Here is an outline of today's overview session:
	What is Packet Tracer (PT)?
Packet Tracer Overview Agenda	
<ul> <li>What is Packet Tracer?</li> <li>Why is PT beneficial?</li> </ul>	<ul> <li>Why is PT beneficial?</li> </ul>
PT features	PT features
How to acquire PT	How to acquire PT
Packet Tracer Forum	Packet Tracer Forum
Tools for Teaching PT	
Distribution of PT     Poporting Ruge	Tools for Teaching PT
Reporting Bugs	Distribution of PT
Pastel-Inser Li Denino Essano Denino Essano Denino Denino Essano Denino	Reporting Bugs
Slide 2	

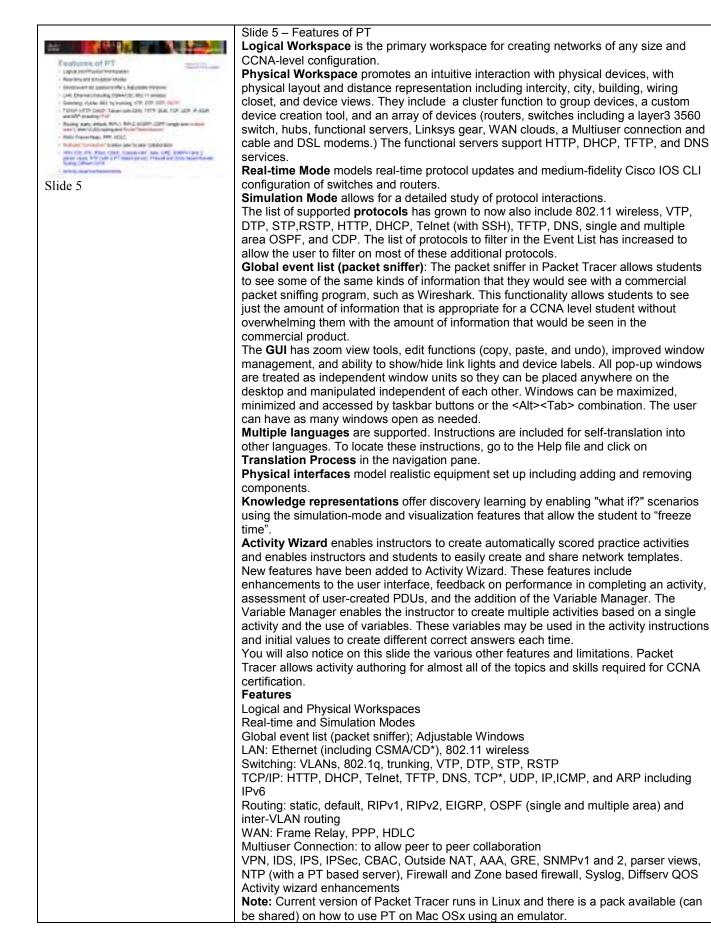


## Slide 3 – Packet Tracer

Packet Tracer simulation software can be used to teach complex CCNA-level networking concepts and to supplement classroom equipment. With PT instructors and students can design, build, configure, and troubleshoot networks using virtual equipment. PT provides a simulation and visualization environment with continuous real-time updates of underlying network logic and activity. It provides a common environment for instructors to demonstrate technologies and configurations, making it extremely useful for lectures, group and individual labs, homework and competitions. Students use PT to explore concepts, conduct experiments and test their understanding. Use PT for:

- Lecture demonstrations
- Individual labs and group labs
- Homework
- Assessments and games
- Network design, troubleshooting, and modeling tasks
- Reinforcement of hands-on lab activities
- Case studies
- Competitions
- Problem-solving activities in concept-building, skill-building, design, and troubleshooting

	Slide 4 – Key Benefits of PT
	Key benefits are to make learning and teaching easier and to supplement lab
Key Benefits of PT	equipment in the classroom.
<ul> <li>Essent on three Harring principles, learning is active, learning is social, and learning is contextual.</li> </ul>	<ul> <li>Packet Tracer is based on three learning principles: learning is active,</li> </ul>
<ul> <li>Megidad in CCRA Discovery, CCRA Expression, and CCRA Security courses</li> </ul>	learning is <b>social</b> , and learning is <b>contextual</b> . Hence, it is meant to
<ul> <li>Includes a surjecty of netw fractures sponserved in visualization both in sendators (Sod Planet Survey) and Physical even</li> </ul>	facilitate the creation of engaging, collaborative, and localized
Projectile view New Chern De vier protocol implementation Auditional another in excellent	instructional materials.
Inspire with thodeling, of existing processis, Inspire with GLE	Packet Tracer is a foundational teaching tool for CCNA Discovery,
Address The and Income we works Molecular	CCNA Exploration, and CCNA Security. Those curricula include
<ul> <li>Explorements hands on fab sequences?</li> <li>Each suder our hold, configure and insubsemal reasons using visual encourse?</li> </ul>	embedded e-doing, which applies the principle that people learn best
Slide 4	by interacting with computer-based activities. Interactive learning
	promotes the exploration of networking concepts and experimentation
	with tools such as Packet Tracer and Flash-based activities to help
	students develop a greater understanding of networking technologies.
	Packet Tracer activities are embedded in the new course content.
	<ul> <li>Packet Tracer includes a variety of <b>new features</b> over the previous</li> </ul>
	releases:
	Improvement in visualization both in simulation (QoS Packet
	Queueing) and Physical view
	New Client/Server protocol implementation
	Additional protocols modeled
	<ul> <li>Improved modeling of existing protocols</li> </ul>
	<ul> <li>Improved modeling of existing protocols</li> <li>Improved GUI</li> </ul>
	•
	Activity Wizard improvements
	<ul> <li>Multiuser capability allowing for connections between two or more instances of PT</li> </ul>
	<ul> <li>Packet Tracer is a supplement to hands-on lab equipment and is</li> </ul>
	not a replacement for lab equipment. The Networking Academy
	program recommends the use of physical equipment for hands-on
	learning. This is a key differentiator relative to other programs. Packet
	Tracer simulations, which are embedded in the new curricula, are
	supplemental and designed to provide learning opportunities for
	environments that are not possible to re-create in the classroom.
	Various uses of PT include:
	Teach complex CCNA-level networking concepts
	<ul> <li>Design, build, configure and troubleshoot networks using virtual</li> </ul>
	equipment
	Demonstrate technologies and configurations
	Supplement classroom equipment
	<ul> <li>Empower students to explore concepts, conduct experiments, and test</li> </ul>
	their understanding



What is New to PTS.x? • More Protocols PAR Male was Soft Managed Soft Managed Soft Managed Soft Managed Soft Mark	Slide 6: What is New in PT 5.x? Protocols added in PT 5.x: IPv6, Multi-area OSPF, Route Redistribution, Multilayer switching with the addition of a 3560 switch, SSH (Secure Shell) for Secure telnet access and Rapid Spanning Tree Protocol (RSTP). There are also many commands which were not supported by the previous versions which have now been added. The Multi-user collaboration allows for two or more instances of PT 5.x to connect via Multiuser Connections connected via TCP/IP within a single PC, or between distinct PCs across a LAN or across a WAN cloud VPN, IDS, IPS, IPSec, CBAC, Outside NAT, AAA, GRE, SNMPv1 and 2, parser views, NTP (with a PT based server), Firewall and Zone based firewall, Syslog, Diffserv QOS, ISAKMP, TACACS+, Radius, SNMP, HTTPS, SYSLOG Support for CCNA and CCNA Security Improved Wireless Security modelling with WPA, WPA2, WPA-PSK, WPA2-PSK Activity wizard enhancements
How to Acquire PT  If a new watched to a destruction of the destructio	Slide 7 – How to Acquire PT PT is now available for download on the Academy Connection Website homepage of the user. Just click on the icon shown here which will appear in the left panel on the Academy Connection. This will open a page describing PT with links to FAQ, Datasheet, Training Materials, the Interactive Course Guide, and several download options for the program with or without the tutorials http://cisco.netacad.net/go/pt
Slide 7	
Image: A constraint of the second of the	<ul> <li>Slide 8 – Packet Tracer Forum</li> <li>To reach it from the Academy home page click on Resources::Forums and Chat/Instructor Community/Packet Tracer.</li> <li>You will find here: <ul> <li>another link for downloading the latest PT software,</li> <li>some Promo videos and</li> <li>most importantly current Discussion threads from the instructor community where you can: <ul> <li>Participate in discussions about instructional uses of PT.</li> <li>share .pkt and .pka files</li> <li>Share success stories</li> <li>Report bugs</li> <li>Make suggestions for possible future versions</li> </ul> </li> </ul></li></ul>
	Slide 9 – Reference Topologies PT comes with a number of built-in Activities which can be found in the "saves" folder. Notice the directory path in this slide Currently, the Exploration and Discovery directories shown in this slide will not be there. They will be available from the same locations as the rest of the auxiliary materials. Although the program includes some activities, we strongly encourage you to share activities that you create with others in the CCNA teaching and learning community.

Hotp and Tutorials	<ul> <li>Slide 10 – Help and Tutorials</li> <li>PT Help includes a keyword search tool. To use the search, click on Search.</li> <li>Built into are Help contents (.html) and Tutorials (.swf)</li> <li>"My First PT Lab" - Research has shown that users who master some basic tasks early get much more out of the software. This lab is designed to familiarize you with Packet Tracer's features. This lab is accessible through the Help Contents.</li> </ul>
Slide 10 Distribution of PT Addressing the "Digital Divide" in Networking Improving e-learning from "e-reading and e-watching" to "e-doing" Distribute to students using password protected download, CD or memory stick Install on classroom computers	<ul> <li>Slide 11 – Distribution of PT</li> <li>Please distribute PT to Academy students. For details about the User</li> <li>Agreement, proprietary rights and licensing, please read the Copyrights section of the Help contents within PT.</li> <li>Addressing the "Digital Divide" in Networking</li> <li>Improving e-learning from "e-reading and e-watching" to "e-doing"</li> <li>Distribute to students using password protected download, CD or memory stick</li> <li>Install on classroom computers</li> </ul>
Slide 11  Please Communicate  • Shaw pat and plot files • Shaw putcess stories • Report bigs using the Academy Connection website • Make suggestions for possible future versions • Thank You  Slide 12	<ul> <li>Slide 12 – Please Communicate <ul> <li>Share .pkt and .pka files</li> <li>Share success stories</li> <li>Report bugs using the Packet Tracer Discussion Forum on the Academy Connection website</li> <li>Make suggestions for possible future versions</li> <li>PTZ files</li> </ul> </li> <li>Note: Packet Tracer Zip (PKZ) files are introduced. The Packet Tracer team is interested in learning what new features would be most useful to the community.</li> </ul>
Slide 13	Slide 13 – Q and A
Slide 14	