



Lokalisierung der NetAcad Inhalte und Innovationen für den Unterricht



Carsten Johnson & Irene Besenbäck

Cisco Networking Academy®
Mind Wide Open™



Ablauf

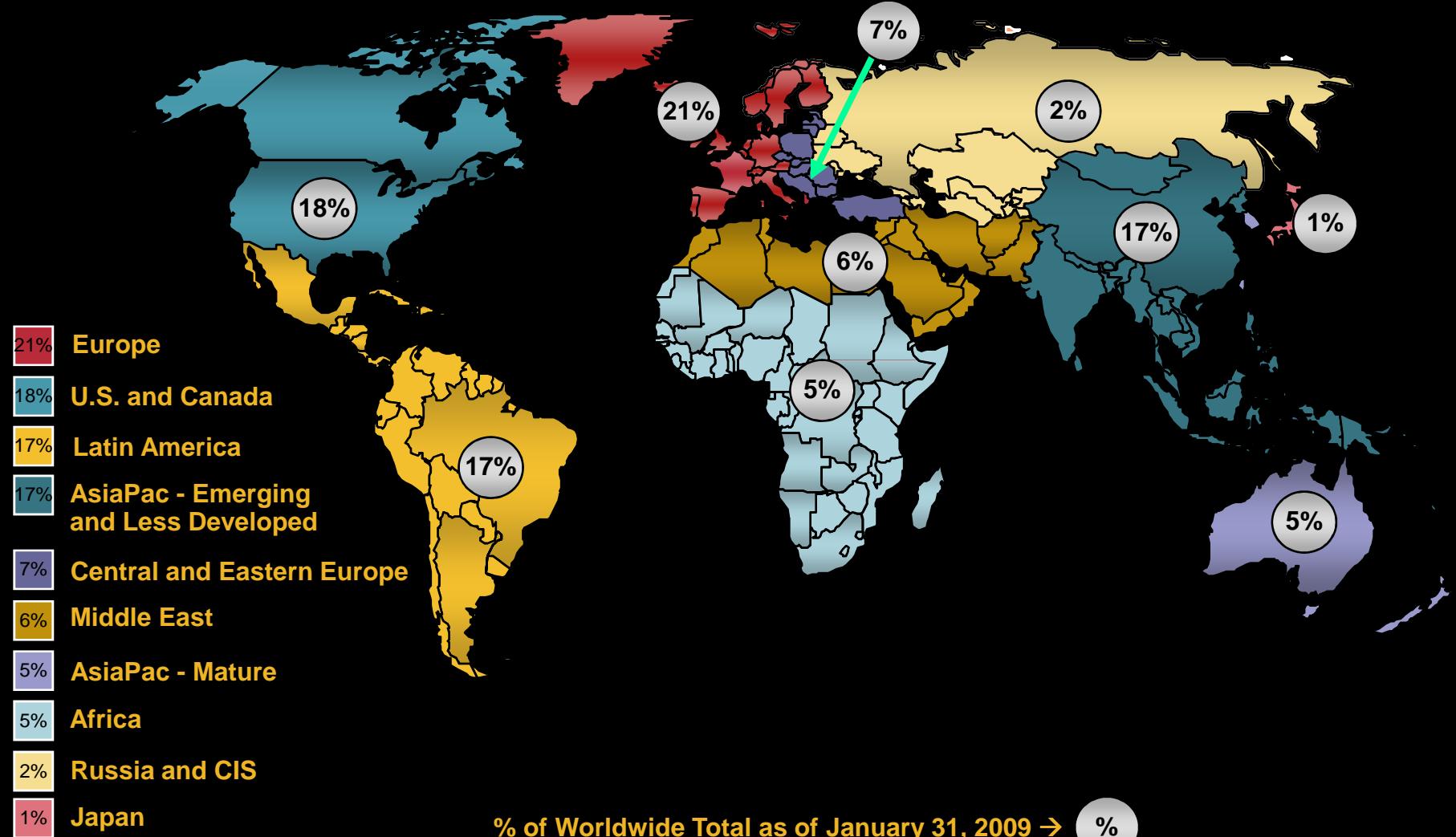
- Überblick Networking Academy Program
- Werkzeuge für den Unterricht und Lokalisierung
- Zielgruppenspezifische Tools, Student Support
- Perspektiven

Überblick Networking Academy Program



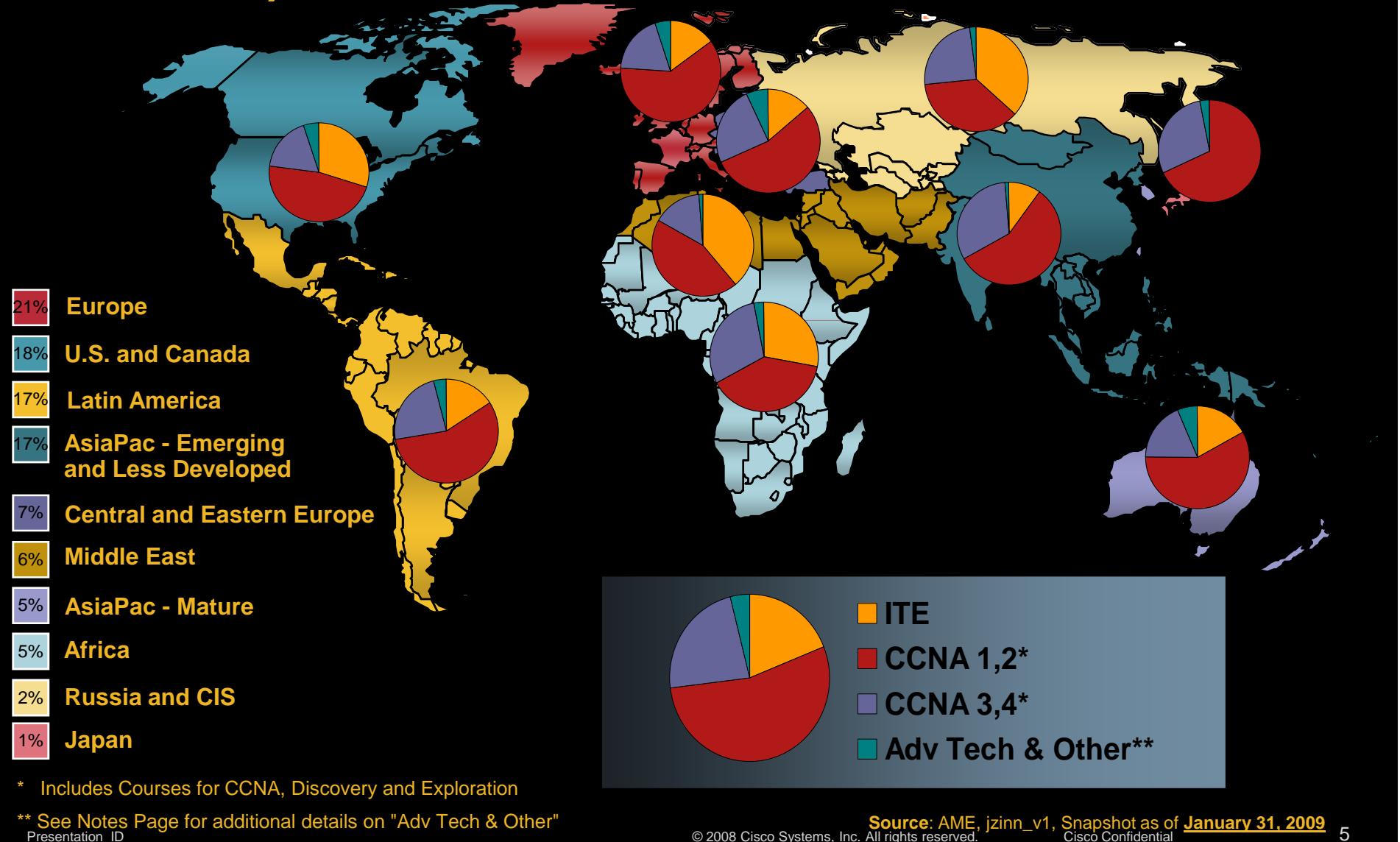


Global Reach (750,000+ Students)



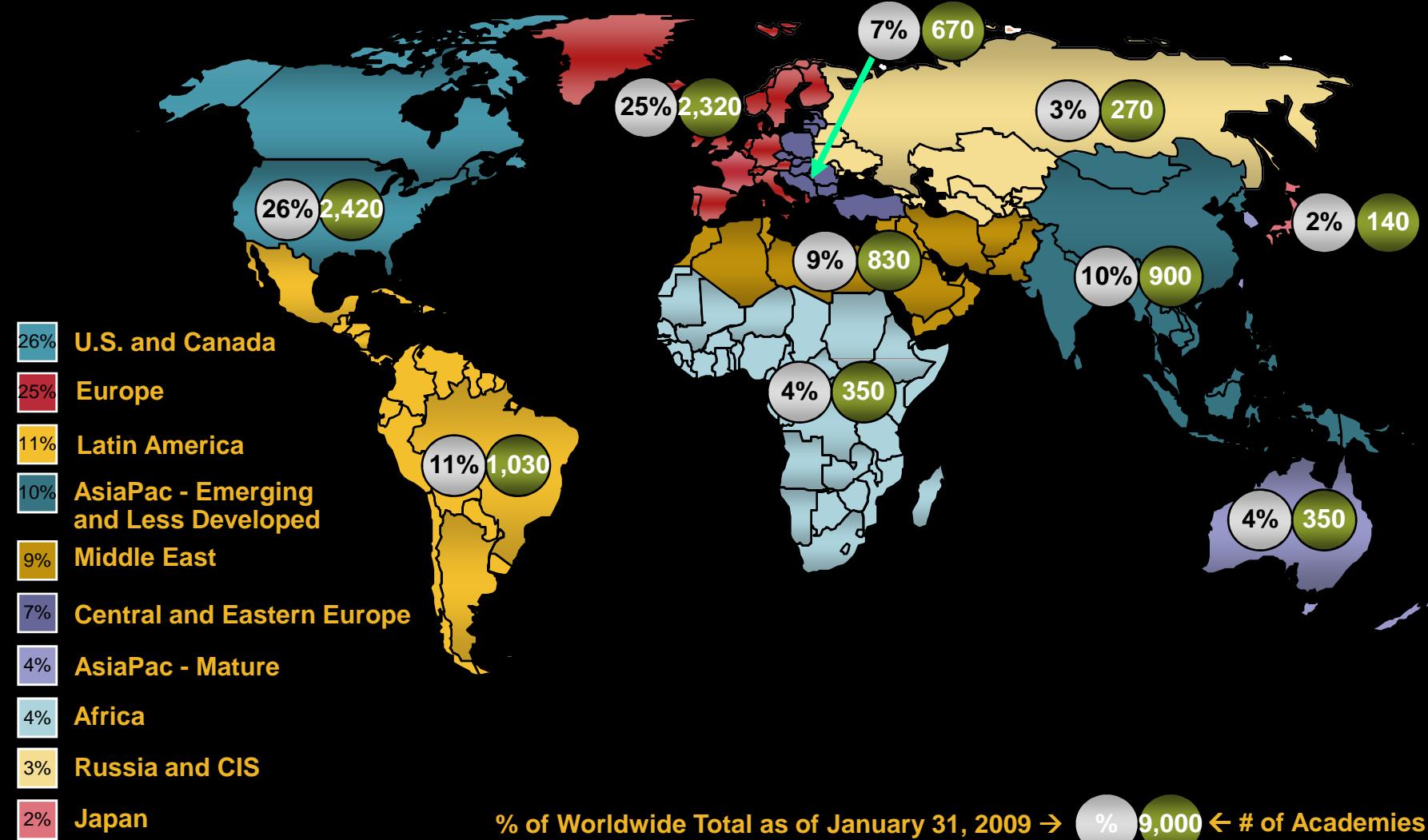


Students by Curriculum by Region (750,000+ Students)





Academies by Region (9,000+ Academies)





... und in der Schweiz ...

- Active Academies: 13
- Active Instructors: 37
- Active Students: 1.297
- CCNA 4 Graduates since Inception: 1.239
- Students since Inception: 3.932

Source: Quarterly Metrics 01.31.09 und 10.31.08

Werkzeuge für den Unterricht und Lokalisierung





IT Essentials - das Basisangebot des Networking Academy Programs



IT Essentials - Beschreibung

- **Bietet einen umfangreichen Überblick über Computer Hardware und Software und gibt eine Einführung in fortgeschrittene Konzepte**
 - Komponenten eines Computers, ein Computer System zusammenbauen
 - Betriebssysteme installieren, troubleshooting mit System Tools und Diagnose Software
 - Internetverbindung und Aufbau eines small home offices (share resources)
 - Zusätzlich: Laptop und portable devices, Wireless, Sicherheit und Softskills
- **Integriert virtuelle Learning tools und bietet interaktive “hands-on“ Erfahrungen** (für Geräte, die nicht oder nur eingeschränkt zur Verfügung stehen)
- **Zielgruppe**
 - Studierende, die praktisches Wissen darüber erwerben wollen, wie ein Computer funktioniert, die troubleshooten können wollen (Hardware und Software) oder einen Computer zusammenbauen,...
- **Zertifizierungsmöglichkeiten**
 - CompTIA A+ certification sowie Modules 1-3 of EUCIP IT Administrator certification



IT Essentials: PC Hardware and Software Course Outline

Ch	PC Hardware and Software
1	Fundamentals: Introduction to the Personal Computer
2	Fundamentals: Safe Lab Procedure and Tool Use
3	Fundamentals: Computer Assembly Step by Step
4	Fundamentals: Basics of Preventive Maintenance and Troubleshooting
5	Fundamentals: Operating Systems
6	Fundamentals: Laptops and Portable Devices
7	Fundamentals: Printers and Scanners
8	Fundamentals: Networks
9	Fundamentals: Security
10	Fundamentals: Communication Skills
11	Advanced: Personal Computers
12	Advanced: Operating Systems
13	Advanced: Laptops and Portable Devices
14	Advanced: Printers and Scanners
15	Advanced: Networks
16	Advanced: Security



8.2 Describe types of networks

8.2.5 Explain client/server networks

In a client/server network, the client requests information or services from the server. The server provides the requested information or service to the client. Servers on a client/server network commonly perform some of the processing work for client machines; for example, sorting through a database before delivering only the records requested by the client.

One example of a client/server network is a corporate environment in which employees use a company e-mail server to send, receive, and store e-mail. The e-mail client on an employee computer issues a request to the e-mail server for any unread e-mail. The server responds by sending the requested e-mail to the client.

In a client/server model, the servers are maintained by network administrators. Data backups and security measures are implemented by the network administrator. The network administrator also controls user access to the network resources. All of the data on the network is stored on a centralized file server. Shared printers on the network are managed by a centralized print server. Network users with the proper permissions can access both the data and shared printers. Each user must provide an authorized username and password to gain access to network resources that they are permitted to use.

For data protection, an administrator performs a routine backup of all the files on the servers. If a computer crashes, or data is lost, the administrator can easily recover the data from a recent backup.

1 Client/Server Network

Fundamentals | 01 02 03 04 05 06 07 08 09 10
Advanced | 11 12 13 14 15 16

Toolbar: Roll over tools INDEX QUIZ LIBRARY BACK NEXT



1 IP Address Classes

	Class A	Network	Host	
Octet	1	2	3	4

	Class B	Network	Host	
Octet	1	2	3	4

	Class C	Network	Host	
Octet	1	2	3	4

Class D addresses are used for multicast groups. There is no need to allocate octet or bits to separate network and host addresses. Class E addresses are reserved for research use only.

8.3 Describe basic networking concepts and technologies
8.3.2 Describe IP addressing

An IP address is a number that is used to identify a device on the network. Each device on a network must have a unique IP address to communicate with other network devices. As noted earlier, a host is a device which sends or receives information on the network. Network devices are devices that move data across the network including hubs, switches, and routers. On a LAN, each host and network device must have an IP address within the same network to be able to communicate with each other.

A person's name and fingerprints usually do not change. They provide a label or address for the physical aspect of the person – the body. A person's mailing address, on the other hand, relates to where the person lives or picks up mail. This address can change. On a host, the Media Access Control (MAC) address (explained below) is assigned to the host NIC and is known as the physical address. The physical address remains the same regardless of where the host is placed on the network in the same way that fingerprints remain with the person regardless of where the person goes.

The IP address is similar to the mailing address of a person. It is known as a logical address because it is logically assigned based on the host location. The IP address, or network address, is based on the local network and is assigned to each host by a network administrator. This process is similar to the local government assigning a street address based on the logical description of the city or village and neighborhood.

An IP address consists of a series of 32 binary bits (ones and zeros). It is very difficult for humans to read a binary IP address. For this reason, the 32 bits are grouped into four 8-bit bytes called octets. An IP address is typically represented in dotted decimal notation.

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Save a Copy Print Email Search Select Text 122% 122%

IT Essentials: PC Hardware and Software v4.0 Chapter 8 – Worksheet\Student

8.3.2 Worksheet: Identify IP Address Classes

Print and complete this worksheet.

In this worksheet, your instructor will write several IP addresses with their appropriate subnet masks on the board. You will copy the IP address and Subnet Mask. You will write which IP Address Class is appropriate in the IP Address Class column in the chart below. An example has been provided for you.

Be prepared to discuss the IP Address Class you select.

IP Address	Subnet Mask	IP Address Class
10.0.0.0	255.0.0.0	A

8,27 x 11,69 in | < > 1 of 1 | < > | < > |



The Three Modes

Learn Mode

Step-by-step instructions for removing and installing components

Test Mode

Self-check for understanding

Explore Mode

Information about many laptop features and components

Installing Components





Typisches Lab Layout

- Labor für ca. 12–15 students für die praktischen Übungen
 - Empfehlung: 1 PC pro Schüler
- Einige Übungen setzen voraus, dass die Rechner der Schüler an ein lokales Netzwerk angeschlossen sind
- Zwei instructor workstations
 - Mindestens eine davon mit Internetanschluss für Recherchen und zum Download von Treibern und Software
 - Die zweite workstation wird für praktische Übungen (Konfigurationen etc.) benötigt



Lokalisierung mit NCTT tool

- **NCTT = NetAcad Curriculum Translation Tool, made in Kosice, Slovakia**
- Besteht aus 2 Bausteinen
 - Web browser plugin
 - Server seitige application
- Lokalisierte Text sicher und hochverfügbar:
 - Server farm @RCNA verbunden mit 100Mbps ans Forschungsnetz NRN - GEANT
- WiKi Anwendung
- NetAcad community übersetzt die curricula für den Unterricht
- Einfache, benutzerfreundliche Oberfläche
- Web 2.0



Zeitplan für die Lokalisierung

- Zeitplan: Übersetzung bis März 2009 Evaluation bis Mai 2009
- Voraussetzung Installation eines plug in (kompatibel mit IE unter Firefox)
- Students müssen online sein, wenn sie das übersetzte Curriculum verwenden wollen



1

Heat Sink/Fan Assembly Power Cable

2

3

4



3.3 Attach the components to the motherboard and install the motherboard

3.3.1 Install a CPU and a heat sink/fan assembly

The CPU and the heat sink/fan assembly may be installed on the motherboard before the motherboard is placed in the computer case.

CPU

Figure 1 shows a close-up view of the CPU and the motherboard. The CPU and motherboard are sensitive to electrostatic discharge. When handling a CPU and motherboard, make sure that you place them on a grounded antistatic mat. You should wear an antistatic wrist strap while working with these components.

CAUTION: When handling a CPU, do not touch the CPU contacts at any time.

The CPU is secured to the socket on the motherboard with a locking assembly. The CPU sockets today are ZIF sockets. You should be familiar with the locking assembly before attempting to install a CPU into the socket on the motherboard.

Thermal compound helps to keep the CPU cool. Figure 2 shows thermal compound being applied to the CPU.

When you are installing a used CPU, clean the CPU and the base of the heat sink with isopropyl alcohol. Doing this removes all traces of old thermal

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select language

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Done

Internet

start



Odyssey...

Inbox - M...

3 Inter...

Microsoft...

DE





Heat Sink/Fan Assembly Power Cable

- 1
- 2
- 3
- 4



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NCTT

[Edit text](#) | [Login](#)

3.3 Einbau der Komponenten auf dem Motherboard und Installation des Motherboards

3.3.1 Installation einer CPU und der Anfügen von Kühlkörper und Lüfter

Die Installation der CPU auf dem Motherboard sowie der Anbau des Kühlkörpers und des Lüfters kann vor dem Einbau des Motherboards im Computergehäuse erfolgen.

CPU

Abbildung 1 zeigt eine Detailaufnahme der CPU und des

Fundamentals | 01 02 03 04 05 06 07 08 09 10
Advanced | 11 12 13 14 15 16

German

Roll over tools

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Done

Internet

start



Odyssey ...

Inbox - M...

3 Inter...

Microsoft...

DE



21:32



- 1
- 2
- 3
- 4

Heat Sink/Fan Assembly Power Cable



3.3 Attach the components to the motherboard and install the motherboard

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NCTT

[Edit text](#) | [Login](#)

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CPU

Abbildung 1 zeigt eine Detailaufnahme der CPU und des Motherboards. Die CPU und das Motherboard sind hinsichtlich elektrostatischer Entladungen sehr empfindliche. CPU und Motherboard müssen deshalb auf einer geerdeten Antistatik-Matte platziert werden. Sie selbst müssen bei der Arbeit mit diesen Komponenten ebenfalls über eine Handgelenkserdung verfügen.

ACHTUNG: Berühren Sie bei der Arbeit mit einer CPU zu keinem Zeitpunkt die Kontakte der CPU.

Die CPU ist auf dem Motherboard mit einem

Fundamentals | 01 02 03 04 05 06 07 08 09 10
Advanced | 11 12 13 14 15 16

German

Roll over tools

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Done

Internet



Odyssey ...

Inbox - M...

3 Inter...

Microsoft...

DE



21:33



Kurzer Prozess – schneller Fortschritt

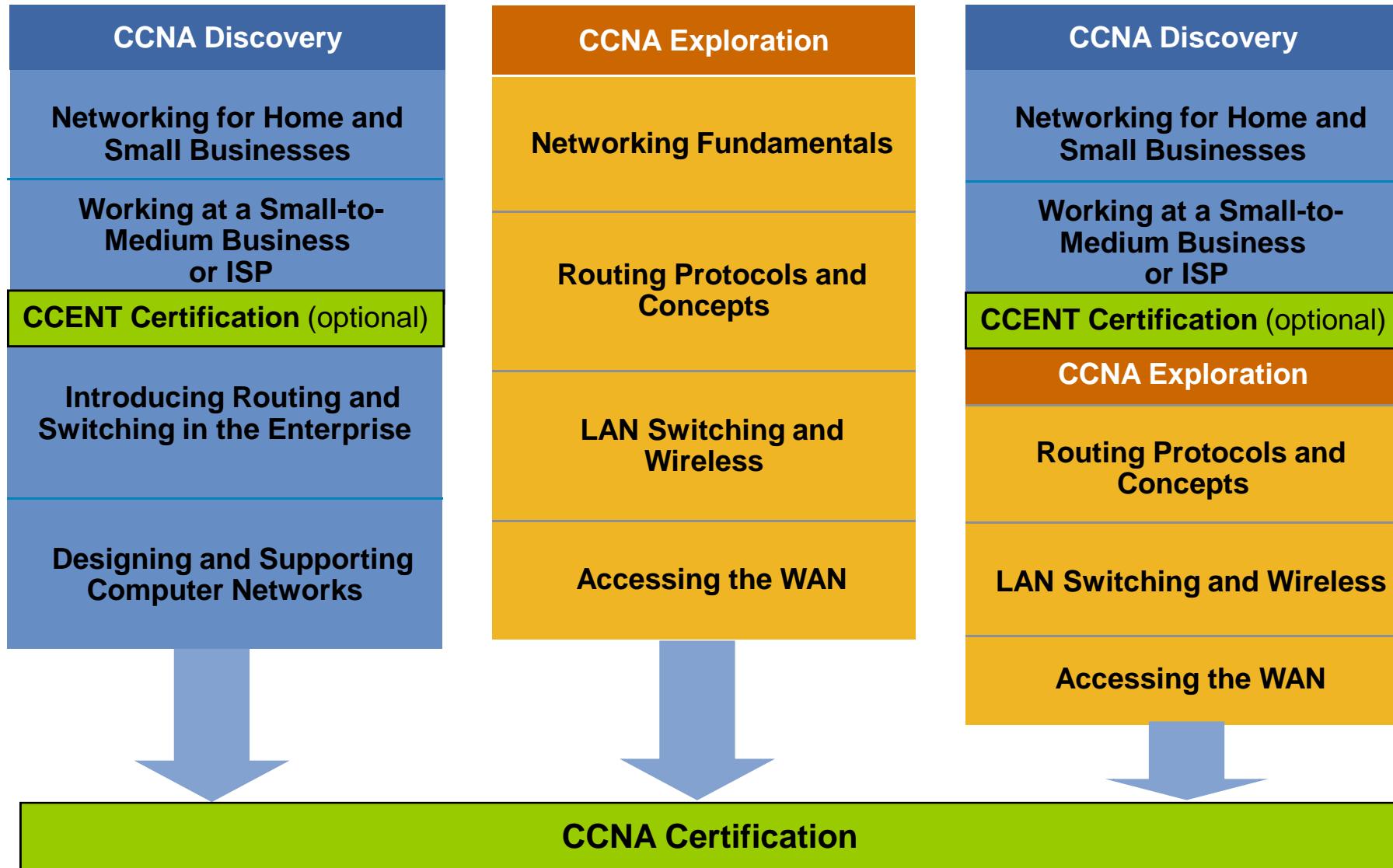
- Aktuell sind ca. 30 Instruktoren/innen und Students am Übersetzungsprozess beteiligt
- Nach 10 Wochen gemeinschaftlicher Übersetzungsaufgabe sind Mitte März 2009 bereits ca. 75% des Textes übersetzt und bereits ca. 25% evaluiert
- Quizfragen und zusätzliches Material für den Unterricht (Foliensätze von CLI) folgen
- Zertifizierung mit dem Partner ECDL ist in Vorbereitung. Arbeitstitel: ECDL Tec



Lokalisierung und neue Wege im CCNA



Lernpfade zur CCNA Zertifizierung





Übersetzung des CCNA Discovery 1 + 2

- Übersetzung mit Hilfe eines professionelln Übersetzungstool mit Wiki-ähnlichen Werkzeugen
- Academy Instruktoren/innen und Students wirken daran in Projekten mit
- Übersetzt wird bis auf Weiteres nur CCNA Discovery Semester 1+2 inkl. CCENT und der Exams
- Die Zeitperspektive: Bis Anfang 2009 wird mit großer Wahrscheinlichkeit die Übersetzung vom CCNA Discovery 1 inkl. der Übungen und der Assessments abgeschlossen sein. Im Sommer 2009 folgt dann Discovery 2



Zeitplanung eines komplexen Prozesses

- Start der Übersetzungsarbeit im August 2008
- Bis Mai 2009 wird mit großer Wahrscheinlichkeit die Übersetzung vom CCNA Discovery 1 inkl. der Übungen und der Assessments abgeschlossen sein. Im Sommer 2009 folgt dann Discovery 2
- Beschleunigung durch mehr Übersetzer und teilweise Nutzung automatisierter tools

CISCO.

Idio https://netacademy.idiomworldserver.com - Idiom WorldServer 9.0.0.287 - Browser Workbench - Mozilla Firefox

Browser Workbench

Save Tools Show segment details Viewer...

Task #: 22 / Project: German Demo Discovery 1 / Asset: D1_SBA-Student-Version_v3_FINAL.doc

All segments

<input type="checkbox"/> 12	In Part 1 you will plan out the network and construct any required cables.	In Teil 1 werden Sie ein Netzwerk planen und alle für dessen Aufbau benötigten Kabel herstellen.
<input type="checkbox"/> 13	In Part 2 you will build and configure the network based on specific requirements.	In Teil 2 werden Sie das Netzwerk aufbauen und entsprechend der Spezifikation konfigurieren.
<input type="checkbox"/> 15	The time allocated to both Part 1 and Part 2 is 50 minutes.	Die Zeit, die Ihnen für die Durchführung beider Teile zur Verfügung steht beträgt 50 Minuten.
<input type="checkbox"/> 16	Before proceeding to Part 2, have your instructor check and grade Part 1.	Bevor Sie mit dem zweiten Teil beginnen, bitten Sie Ihren Instructor den ersten Teil zu prüfen und zu bewerten.
<input checked="" type="checkbox"/> 17	While completing Part 2, have your instructor check and grade each step before proceeding to the next.	Während des zweiten Teiles bitten Sie Ihren Instructor jeden Arbeitsschritt zu prüfen und zu bewerten, bevor Sie mit dem jeweils nächsten beginnen.

◀ Prev 1 2 3 4 Next ▶ (View all pages)

Fertig

netacademy.idiomworldserver.com

22 Translate /Testing/Cisco/English/Training/Demo Translators 1 0 17 1

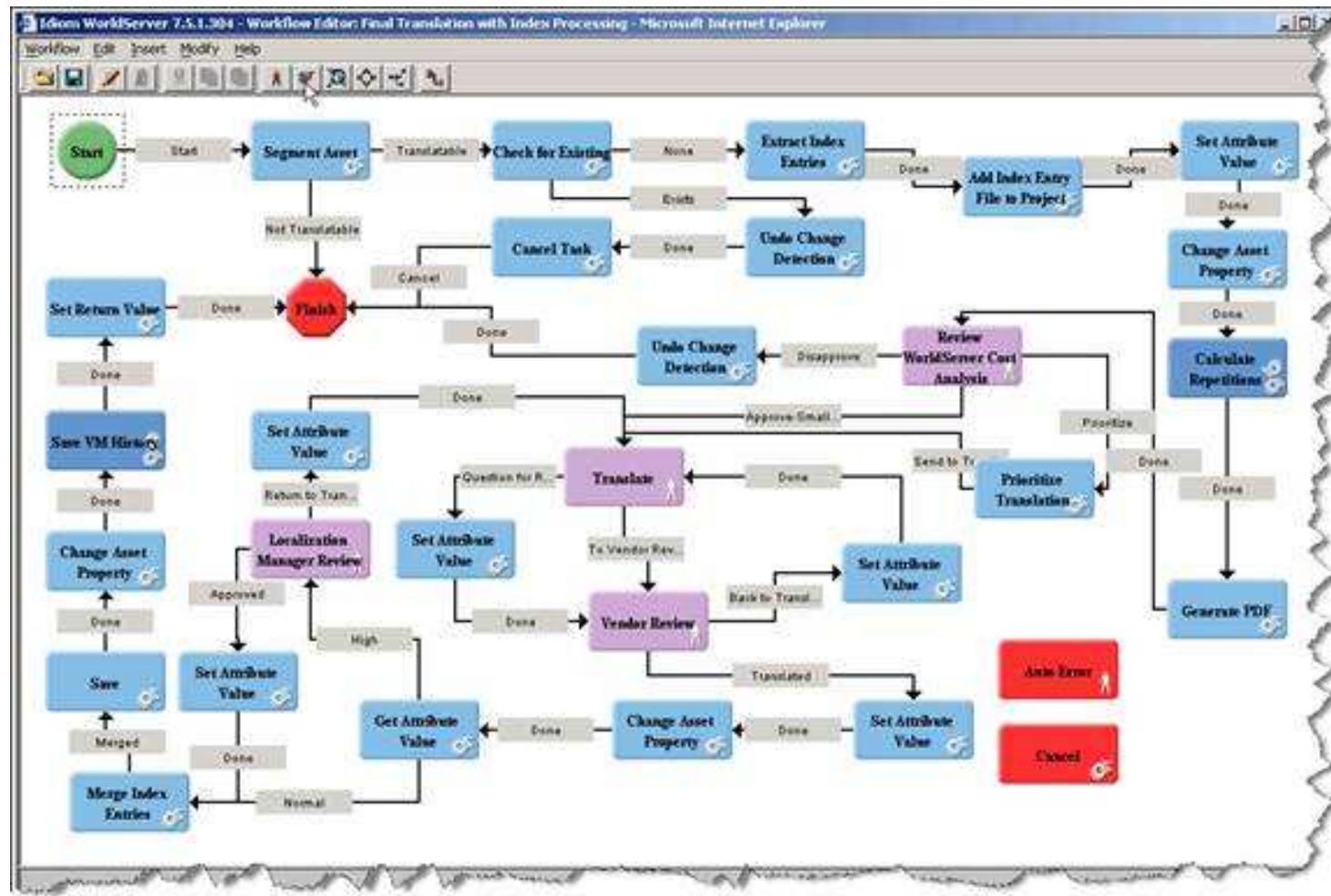
Fertig

netacademy.idiomworldserver.com

start Odyssey... 2 Firefox 3 Micro... Microsoft... DE 11:35



WorldServer Workflow Editor



Zielgruppenspezifische Tools, Student Support





NetAcad Advantage und Partner Talent Portal

The screenshot shows the homepage of the NetAcad Advantage website. At the top, there's a navigation bar with links for Home, Prepare for Work, Know the Industry, Listen to the Experts, Work for Cisco/Partners, and Job Search. A banner above the main content area reads "Work for Cisco/Partners, Listen to the Experts". A large red banner across the middle of the page displays the URL "www.netacadadvantage.com". Below this, there are several sections: "I Got a Job" featuring a photo of a woman named Mariya, "Cisco Talent Development Fair April 2nd" with a photo of people at a fair, and a "Job of the day" section for a "SQL Test Analyst" position. A red box highlights the "Work for Cisco/Partners" link in the top navigation. Another red box highlights the "Competitions" link at the bottom right of the page. Red arrows point from the highlighted links to the corresponding sections on the page.

Work for Cisco/Partners, Listen to the Experts

www.netacadadvantage.com

NetAcad advantage

Home Prepare for Work Know the Industry Listen to the Experts Work for Cisco/Partners Job Search

Please select your language:

I Got a Job

Mariya participated in the Cisco Sales Associate Program which led to her current position as Systems Engineer at Cisco. Visit I got a Job for ideas and tips from Mariya and other students to be successful in your job search.
[» Visit 'I Got A Job' Section](#)

Cisco Talent Development Fair April 2nd

The Learning@Cisco Talent Development Fair is a FREE online event open to all Networking Academy students that will take place on April 2, 2009. The fair will provide resources to individuals interested in pursuing careers in IT networking.
To find out more about the event, and for registration information [click here](#)

Job of the day

SQL Test Analyst (ref: 405783) UK

SQL Test Analyst, Bristol to 35k + bonus and benefitsMulti-media giant with millions of end users require a SQL Test Analyst the Reporting Team, who will report to the Test Team Lead and be responsible ...

Date Posted: 06-03-2009 Company: Novatech Ltd. Location: Bristol, Avon annum + bonus and benefits

Salary: £30000 - £43000 per

find more jobs » view details »

Competitions



NetAcad Advantage und Partner Talent Portal

Cisco Partner Jobs Portal - Windows Internet Explorer
http://www.partnertalentportal.com/europe/myaccount.asp

Sie sind angemeldet als:
Irene Besenbaeck

Candidate Portal
Administration Home

Gestalten Sie Ihre Zukunft mit dem Partner Talents Portal mit dem Ziel, Ihnen die Möglichkeit zu geben, Ihre berufliche Laufbahn auf der Unternehmensebene zu optimieren.

www.partnertalentportal.com

Alle Möglichkeiten stehen Ihnen offen

Some email accounts may incorrectly label this email as spam and put it into a Junk folder. We therefore recommend you add the email address 'administrator@partnertalentportal.com' to your safe senders list to ensure you receive all correspondence from us. For help and information on safe sender lists please click [here](#)

Home
Mein Account
Edit My Profile
View/Print CV
Withdrawal
Messaging
Inbox (0)
Sent Items
Messaging Help
[f Connect with Facebook](#)
Suche
Stellenangebote durchsuchen
Resources and Best Practices
Resources and Best Practices
Hilfe
Onlineabfragen



Marketing Toolkit, Academy Connection

New collaterals (6 videos, brochures, branded material, student success stories..)

The screenshot shows a web-based application for managing marketing collateral. At the top, there's a navigation bar with 'Home', 'Search', 'My Profile | Contacts & Feedback | Help | Logout'. Below the navigation is a banner featuring the Cisco logo and several colorful, overlapping images of people's faces. A main menu bar includes 'Marketing Plan', 'Event / Presentation Tools', 'Publicity Tools', 'Collateral/Media' (which is currently selected), and 'Academy Impact'. On the left, a sidebar lists 'Marketing Toolkit' sections: 'Event / Presentation Tools' (selected), 'Student Recruiting', 'Academy Recruiting', 'Tradeshow or Job Fair', 'Press Conference', 'Academy Conference', and 'Presentation Tools'. A link 'Launch Survey on New Site Experience' is also present. The central content area is titled 'Student Recruiting Event' and contains a 'Download' section with links to 'Networking Academy Overview Brochure (International)' (with a PDF icon), 'Networking Academy Overview Brochure (US)' (with a PDF icon), and 'Networking Academy Overview Brochure (Canada)' (with a PDF icon). To the right of these download links is a 'Logo' section with four items: 'Brochures', 'Videos', 'Templates', and 'Download' (with a PDF icon). Below the download section is a text block about increasing enrollment through student recruiting events. Further down are sections for 'Planning Your Event' and 'Suggested Agenda', both containing descriptive text.

Marketing Toolkit

Marketing Plan Event / Presentation Tools Publicity Tools Collateral/Media Academy Impact

Student Recruiting Event

Download

Networking Academy Overview Brochure (International)

Networking Academy Overview Brochure (US)

Networking Academy Overview Brochure (Canada)

Logo

Brochures

Videos

Templates

Student Brochure (International)

Student Brochure (US)

Student Brochure (Canada)

Student Recruiting Event Invitation

One way to increase enrollment is to hold a student recruiting event, such as an open house or a demonstration. Potential students will come to the Academy to meet instructors, talk with current or former students, and see what the Cisco Networking Academy is all about.

Planning Your Event

The first step in planning is to identify your goal, your audience, and the action you expect them to take. Your agenda should reflect your goal for the event, and the invitation should target the audience you expect to reach. Choose a date close to registration time so that students can take action immediately. Most Academies hold recruiting events in the Academy location.

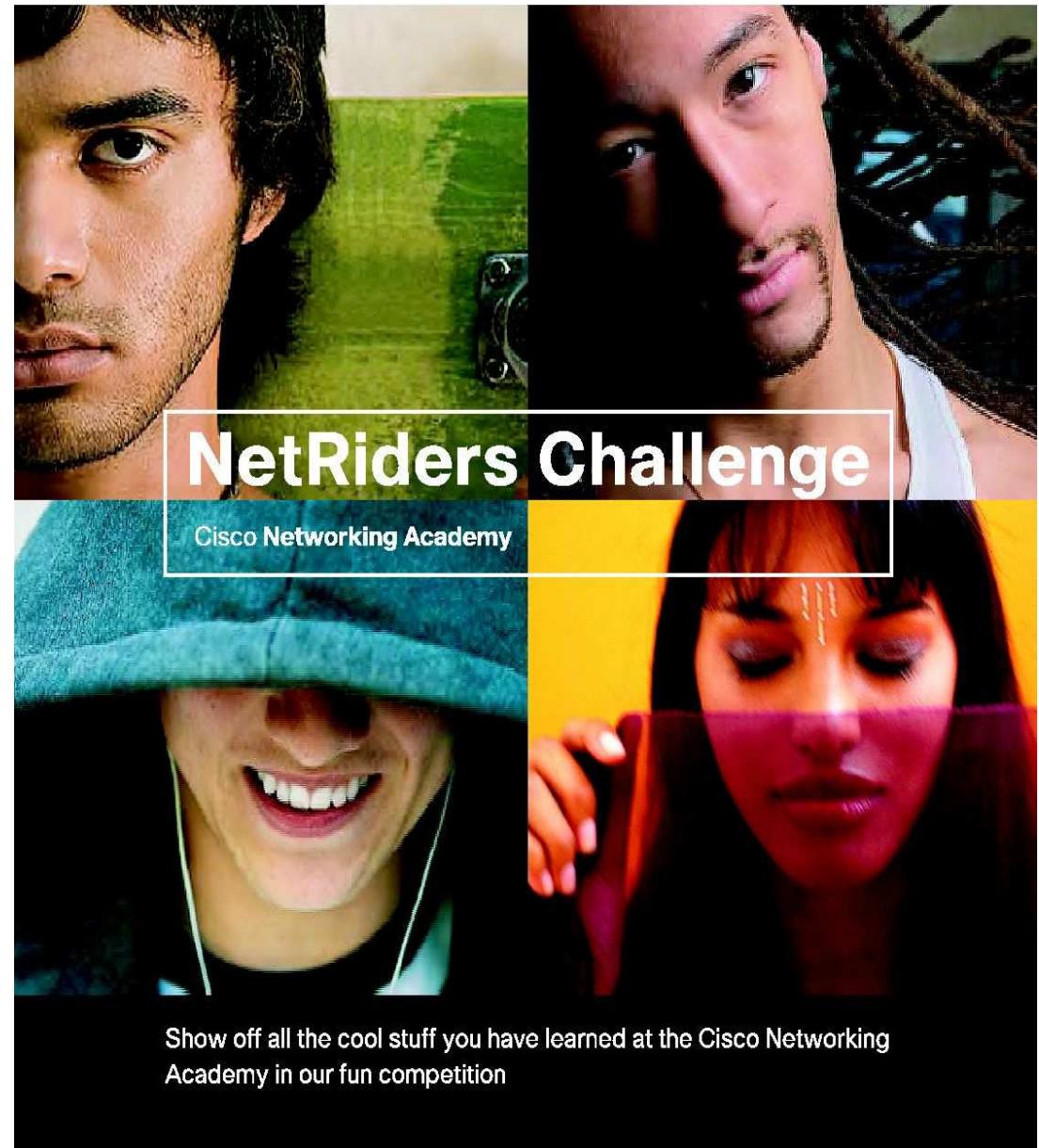
Suggested Agenda

Tailor your agenda to your audience. Are they more interested in network technology, further education, or near-term career opportunities? Be sure to introduce the Cisco Networking Academy Program and explain the benefits of the program. You may also include a curriculum overview, demonstrations, student



Netriders Challenge

- International:
1. July 2009
40 Länder
pro Land 3 TN
CCNA 4 level
- National:
25. Juni 2009



NetRiders Challenge

Cisco Networking Academy

Show off all the cool stuff you have learned at the Cisco Networking Academy in our fun competition

Perspektiven: Green IT und Gender





Green IT in Schulprojekten



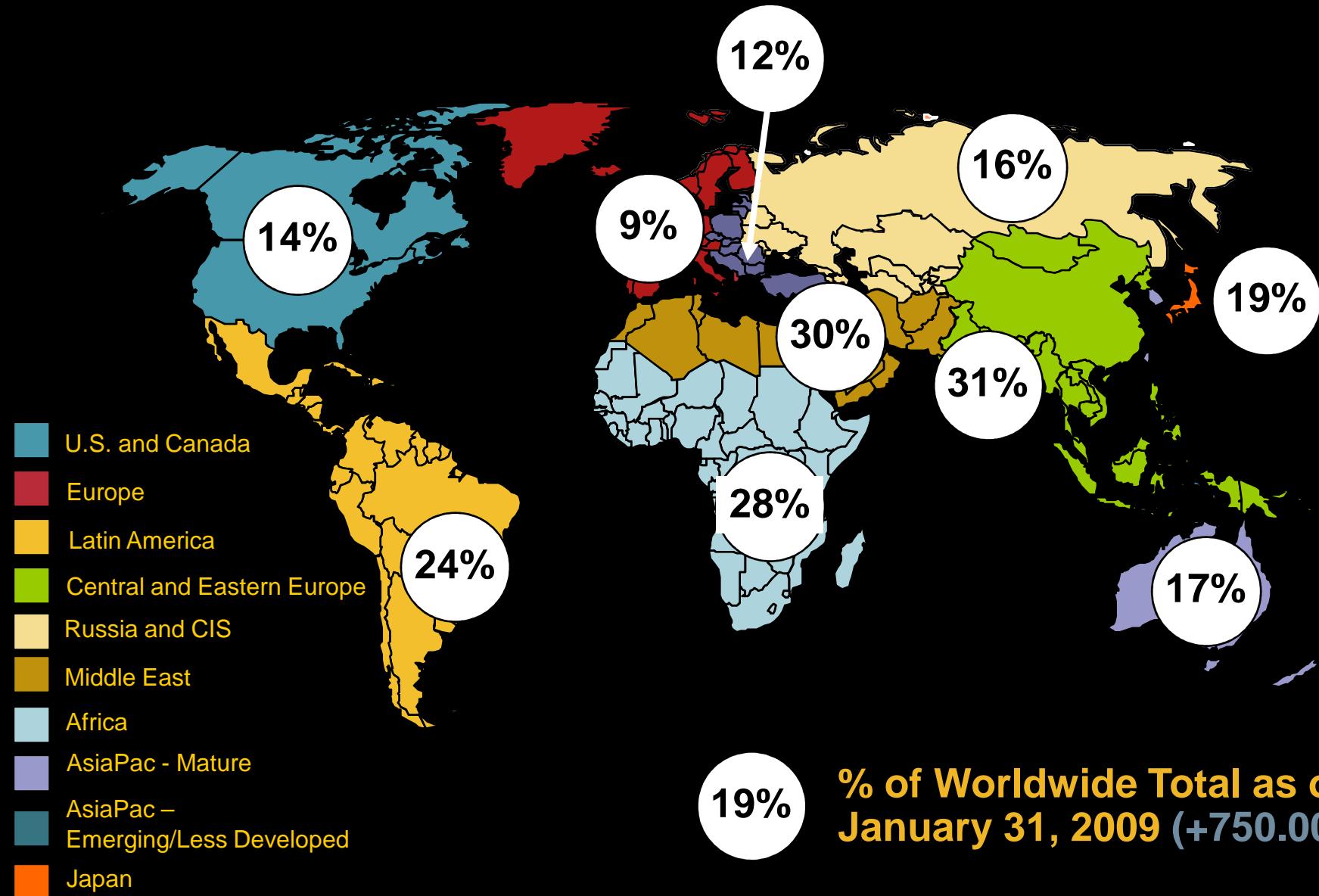


Perspektiven für NetAcads

- Fächerübergreifende Ausbildungsprojekte
- Szenarien mit verschiedenen Netzarchitekturen und die Messung des realen Stromverbrauchs - Vergleiche
- Internationale Zusammenarbeit mit NetAcads in den Partnerstädten der Clinton Global Initiative – grenzüberschreitende Zusammenarbeit
- Nutzung der netzwerkgestützten Kollaboration bei der Umsetzung von Projekten – Einüben grünen Kommunikationsverhaltens in der Ausbildung (Webkonferenzen etc.)



Female NetAcad Students





Gender Aktivitäten

- „Women in IT“ Portal auf Netacad Advantage
Video vom Shadow Day zum Download im Marketing Bereich
- Studie zu den Vorstellungen und Bildern von Mädchen und Frauen in bezug auf Karrieren im IT Bereich.
- Marketing Material, das sich an Mädchen/Frauen wendet
- Derzeit in verschiedenen Ländern unterschiedliche Modelle ausprobiert (girls only academy, Zusammenarbeit mit Roberta – Mädchen erobern Robotics,...)

Vielen Dank für die
Aufmerksamkeit!

carsjohn@cisco.com
ibesenba@cisco.com





