

# Educação 3.0 - desafios de qualidade e eficiência dos processos de ensino e aprendizagem do século XXI

# Aplicações mais comuns nas Escolas

- Formação de professores / Ensino a Distância (EAD)  
Videoconferência
- Sala de Aula (Presencial ou Virtual)  
Lousa digital/Projektor  
LMS – Learning Management System  
Computador do Professor  
Tablets/Classmates/Netbooks  
Outros dispositivos interativos
- Laboratório  
Aplicações específicas (matemática, ciências, etc)
- Administração  
Gestão Acadêmica (ERP)



# Exemplos Nacionais

Conteúdos:



Interatividade:



Eficiência da  
Sala de aula:



Gestão  
Acadêmica:



My Courses



Blackboard 8.0

Home School



Blackboard 8.0

Home Scholar Help

Search Catalog

Course   
 AND Create

Location: [Top](#) >

No subcategories

Course ID

[09fallcasaa310\\_a1](#)

[09fallcasaa371\\_a1](#)

[09fallcasah322\\_a1](#)

[09fallcasah367\\_a1](#)

[09fallcasah393\\_a1](#)

[09fallcasah497\\_a1](#)

[09fallcasah527\\_a1](#)

[09fallcasam301\\_a1](#)

[09fallcasam546\\_a1](#)

[09fallcasan101\\_a1](#)


Syllabus


1. Ecological F
2. History and
3. Physical Dev
4. Cognitive De
5. Language D
5. Intelligence
6. Moral Devel
7. Emotional D
8. Motivation
9. Self and Ide
10. Family and
11. School Cor
12. Observatio


Announcement  
Instructor

Communication  
Tools

My Grades  
Getting Started

 Course Map

 Control Panel

 Refresh










CEDE 709 CHILD DEVELOPMENT MASTER COURSE (HUNTR\_CEDF\_709\_MASTER\_200909) > CONTROL PANEL > PERFORMANCE DASHBOARD



## Performance Dashboard

Use the links provided to view user progress details for each performance measurement.

 Print

Last Name	First Name	Username	Role	Last Course Access	Days Since Last Course Access	Review Status	Adaptive Release	Discussion Board	Early Warning System	View Grades
Graves	Sherryl	20021104120349177803	Instructor	Sep 17, 2009 4:36:42 PM	49	0		0	:	
Garnett	Katherine	20021104121504210361	Student	Never	Never	0		0	:	
Leblanc	Gess	20021104122344577177	Instructor	Oct 29, 2009 5:16:33 PM	7	0		0	:	
Lengel	James	20060823025716630483	Instructor	Nov 4, 2009 9:12:08 PM	0	0		3	:	
Klein	Jennifer	20080531023806670110	Student	Never	Never	0		0	:	
Manes	Rachel	20090819024455810274	Instructor	Oct 21, 2009 4:09:40 PM	15	0		0	:	
Lengel	Kathleen	20090827025357350136	Instructor	Sep 21, 2009 6:01:11 PM	45	0		0	:	

OK

4º Ano | Matemática

[Selecione a aula](#)

## 1º Bimestre

Ordem	Nome da aula
1	De onde vêm os números?
2	Contando até mil
3	A conta de mais(+)
4	Expressão: o que é isso?
5	Entendendo tabelas
6	Conta de menos
7	Calculando de cabeça
8	As horas, os dias e os meses...

## 2º Bimestre

Ordem	Nome da aula
9	Contando acima de mil
10	Milhares e centenas
11	Multiplicando de 2 a 9
12	Expressões numéricas com + e -
13	Construindo números: unidades, dezenas, centenas
14	Juntando e separando números
15	Problemas de "mais" e de "menos"





# Aplicações Cisco para Ensino



# Acesso Maximizado aos alunos: Tecnologia e simplicidade com Webex

- Interatividade com multi-mídia (video, dados, áudio)
- Sessões com grupos virtuais
- Simplicidade para agendar e operacionalizar
- Conectar salas e especialistas
- Gravação de aulas para posterior estudo/dúvidas
- API de integração



# Oportunidade: Portal Acadêmico

## Arquitetura



Vídeo Conferência  
VC End-points



WebConferência  
Webex  
Recording  
+  
Webex Node

- Gerenciamento da biblioteca de vídeo
- Aulas ao Vivo ou VoD pela Web 24x7
- Acesso via diferentes dispositivos
- Demontração pública:

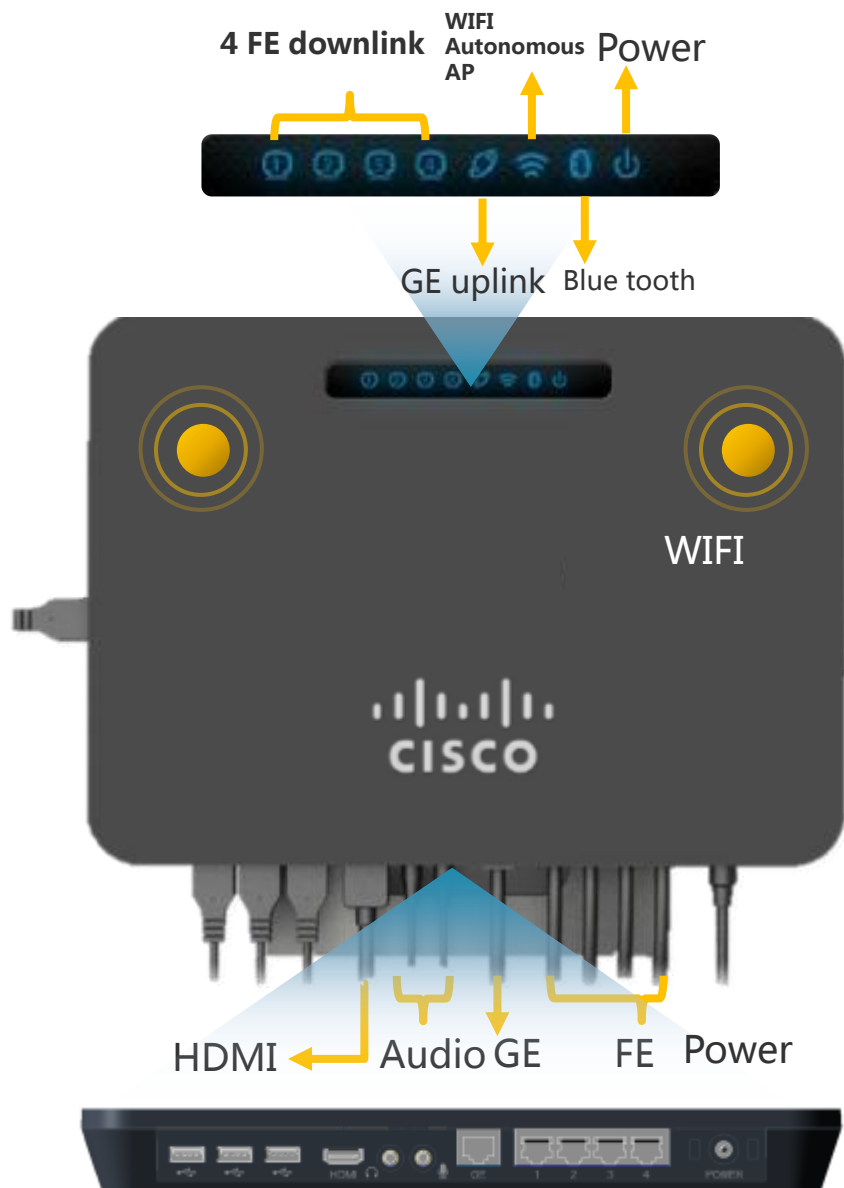
<https://cisco-sns.cisco.com>



# Sala de Aula Conectada



# Cisco Edge 300 Hardware : Interfaces e Características



- Intel System On Chip (Embedded Linux kernel)
  - 1.2G HZ , 2G DDR3 Memory, 4G NAND Flash Memory (2G SLC+2G MLC)
  - 2 × hardware HD video decoding
- Hardware L2 Switch
  - 1×GE Uplink, 4 × FE downlink ( support Auto-MDIX )
  - 2.08M pps
  - 2.4G bps
- WIFI AP ( Optional product ID )
  - 802.11b/g/n
  - Multiple client access
- 4 × USB 2.0 type A (5W power output)
- 1× HDMI video output (support 720p/1080p/1024×768)
- Single power in
- Mic input for audio in and audio out( 3.5mm)

# AP 802.11n embutido

- AP Autônomo
- Padrão 802.11/b/g/n
- Modo 2T2R, Velocidade de 300Mbps
- Coexistência com BlueTooth
- Antena Interna
- Suporte a broadcast e hide de SSID
- Canais configuráveis
- Autenticação : Open, WEP, SPAPSK, SPA2PSK, WPAPSK, WPA2PSK,
- Criptografia : TKIP, AES,TKIP-AES
- Multicast para Unicast (IGMP )



# 4 portas USB embutidas

- Teclado padrão
  - Mouse padrão
  - teclado/mouse infra-vermelho (padrão)
  - USB flash memory (padrão)
  - USB controle remoto (padrão)
  - Lousa Digital (já homologados pela Cisco: integrated einstruction, eBeam and Prometean )
  - HD camera (alguns modelos homologados pela Cisco)
  - USB Serial Printer (lista testada sendo construída)
  - Touch Screen (Futuro)
- Para acessórios adicionais, é necessário o parceiro cisco trabalhar no desenvolvimento do driver



# Cisco Edge 300: Hardware

- Não possui ventoinha
- Desenhado para esfriamento natural - a Base de Metal atua para esfriar o componentes principais da placa mãe
- Baixo consumo (20 W durante operação normal, Máximo de 50W, cada porta USB port fornece até 5W vs 2.5W do PC tradicional).
- Kit de Montagem Incluso : Desktop ou Parede
- MTBF : mais de 10 mil horas

Edge 300 ordering SKU (non education version)	
SKU	Description
CS-E300-AP-K9	4 x 10/100 FE and 1 10/100/1000GE Uplink , Linux OS, Wireless AP
CS-E300-K9	4 x 10/100 FE and 1 10/100/1000GE Uplink , Linux OS,

# Sala de Aula Conectada com Infraestrutura Cisco de ponta a ponta

Data Center  
da Escola



Cisco  
UCS

Escola

Cisco Edge 300



Cisco Catalyst



Cisco ISR

WAN



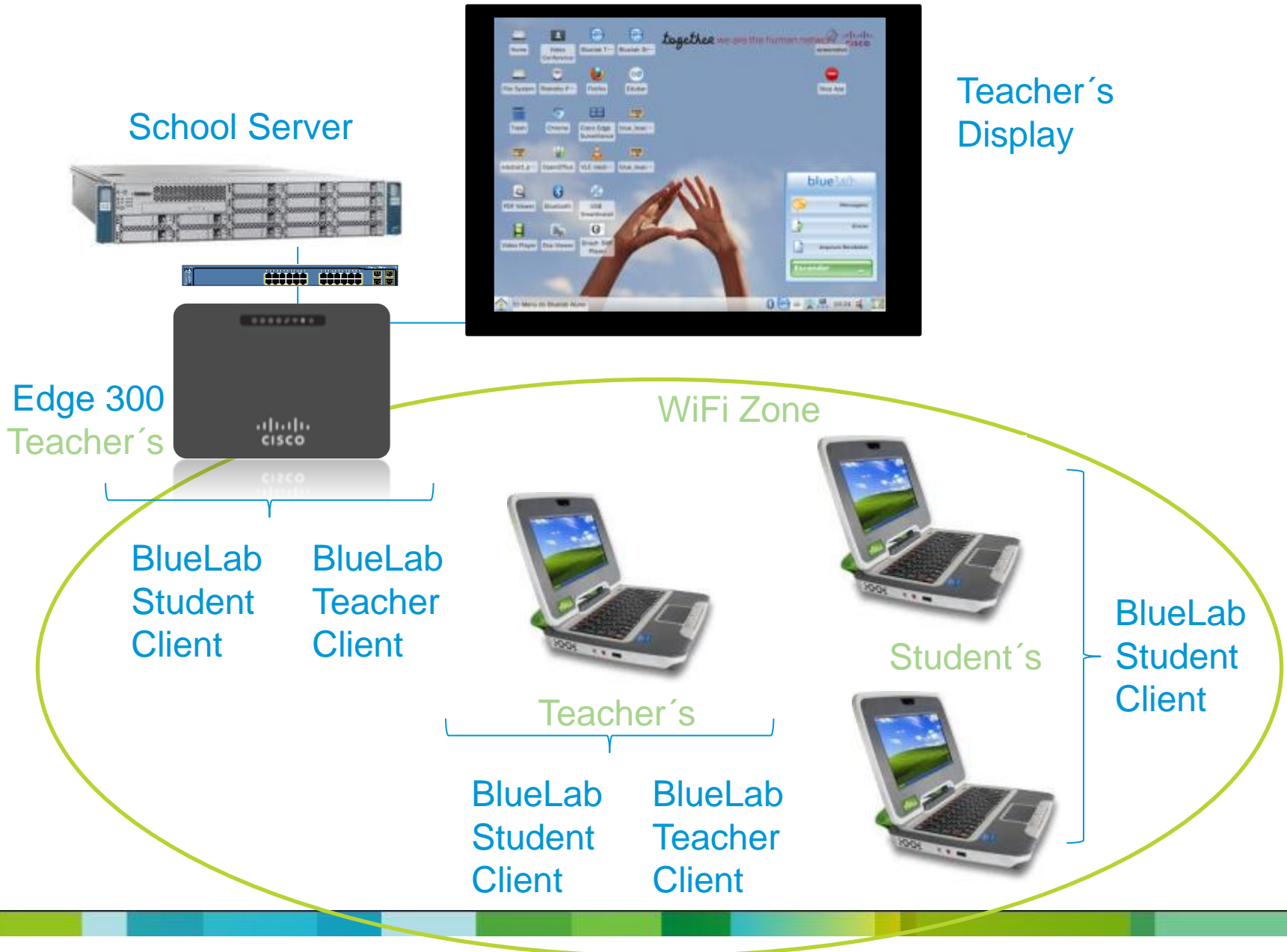
NOC



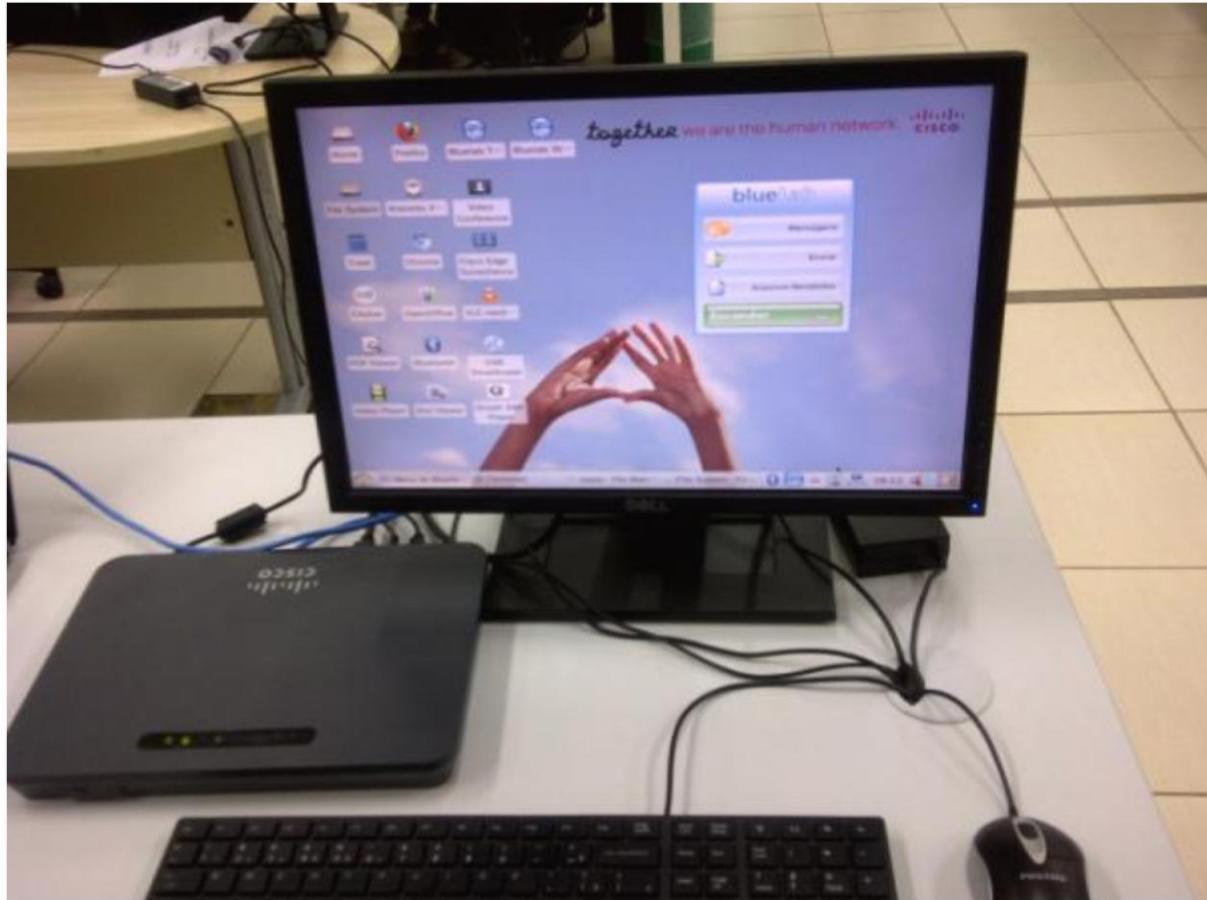
- Simplificação do ambiente tecnológico da sala, incluindo hardware e software
- Instalação rápida (plug & play)
- Gerência 100% remota



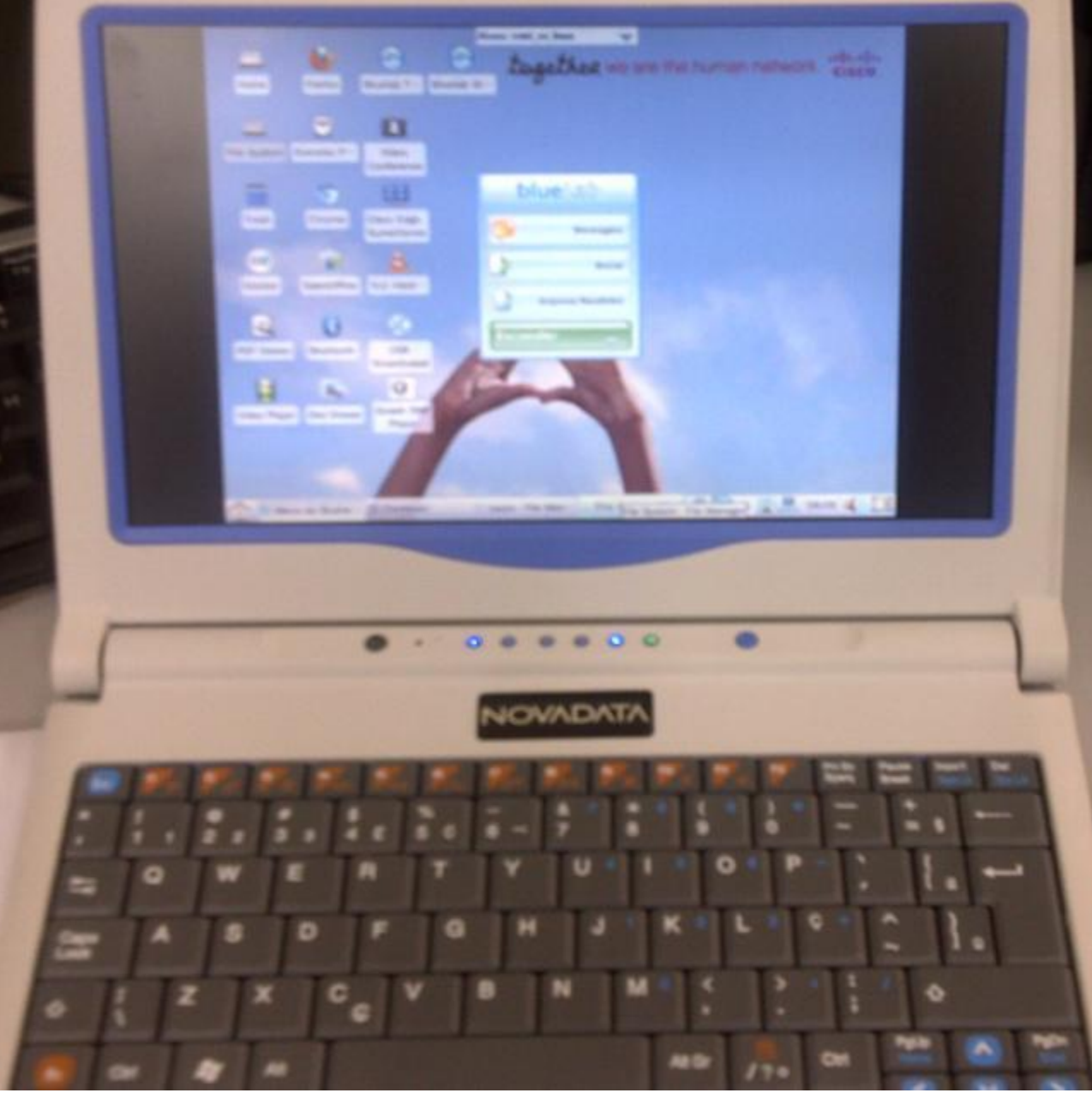
# Case: Cisco e MSTech Parceiro de Conteúdo



# Mstech Laboratório Bauru (Fev/2012)



# Mstech Laboratório Bauru (Fev/2012)





together we are the human network. CISCO

screenshot



Home Video Conference

Bluelab T... Bluelab St...

File System Ristretto P...

Trash Chrome

edubar1.p... OpenOffice

PDF Viewer Bluetooth

Video Player Doc-Viewer

blueLab

Meu Laboratório Meu Espaço de Trabalho

**Recursos da Aula**

- Enviar Minha Tela +
- Pedir Atenção +
- Ver Tela dos Alunos +
- Enviar Mensagem
- Enviar Arquivo
- Abrir Navegador
- Abrir Aplicativo Office
- Enviar Questionário
- Ferramentas
- Recursos da Aula

**Favoritos**  
Cadastre os seus sites favoritos

**Alterar Meus Dados**  
Alterar nome e senha

**Ligar Computadores**  
Liga os computadores dos alunos

**Desligar Computadores**  
Desliga os computadores dos alunos

**Desabilitar Messenger**  
Desabilita o Messenger nos computadores dos alunos

**Desabilitar Programas**  
Desabilita os programas nos computadores dos alunos

**Controlar Midia**  
Envia e permite o controle da exibição de videos e músicas nos computadores

Conectado ao BlueLab

msftech

**blueQuest** Novo Abrir Salvar Imprimir

teste quest

Questao 1: uma correta

Limpar Questão

Imagem Inserir

**Tipo**

- Alternativas: apenas uma correta
- Alternativas: mais de uma correta
- Dissertativas
- Sim ou Não

Enunciado

Quanto e 2+2

Alternativas

<input type="radio"/>	1		X
<input type="radio"/>	2		X
<input type="radio"/>	3		X
<input checked="" type="radio"/>	4		X

Nova Questão

2 Questões Totais 1 Reordenar Questões

blueLab

- Home
- File System
- Trash
- edubar1.p...
- PDF Viewer
- Video Player

together we are the human network. CISCO



Home



Edubar



Bluelab T...



Bluelab St...



screenshot



File System



Ristretto P...



Firefox



Gnash SWF Player



Stop App



Trash



Chrome



Video Conference



OpenOffice



PDF Viewer



Bluetooth



Cisco Edge Surveillance



Doc-Viewer

The screenshot shows the blueLab application interface. On the left is a vertical menu with options: Enviar Minha Tela, Pedir Atenção, Ver Tela dos Alunos, Enviar Mensagem, Enviar Arquivo, Abrir Navegador, Abrir Aplicativo Office, Enviar Questionário, Ferramentas Especiais, and Recursos da Aula. The main workspace is titled 'Meu Laboratório' and 'Meu Espaço de Trabalho'. It features a 'Enviar Minha Tela' section with options for 'Enviar tela para alunos' (Maximizado, Medio, Pequeno) and 'Parar de enviar tela'. Below this is a preview area showing two thumbnails labeled 'Uso' and 'Enviar...'. The interface includes a top bar with 'Licença' and 'blueLab' branding, and a bottom taskbar with system icons and the date '08/02/2012'.

The sidebar menu for blueLab contains the following items: 'Mensagens' with a speech bubble icon, 'Enviar' with a document and arrow icon, 'Arquivos Recebidos' with a document icon, and a large green 'Esconder' button with a downward arrow.

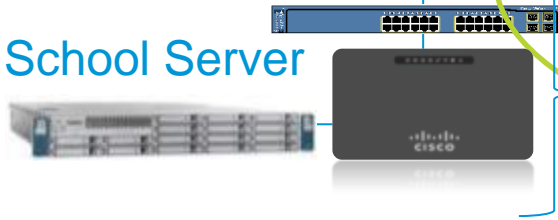


# Use Case 1 – Edge as Teaching Center

## Teacher's Display



School Server



## WiFi Zone



Edge 300  
Teacher's



Student's  
BlueLab  
Student  
Client

## Elements in Place

### •SERVER SIDE

- School Server with MSTECH software stack Running Windows 2008 Std ,MS SQL Express and MSTECH System
- DHCP (IP addresses passed along Edge and Classmates)

### •TEACHER SIDE

- EDGE Wi-Fi with MSTECH BlueLab Student Client
- Tablet with Android-based SO or Laptop PC and BlueLab Teacher Client

### •STUDENT SIDE

- Classmate netbook with Windows XP, MSTECH BlueLab Student Client

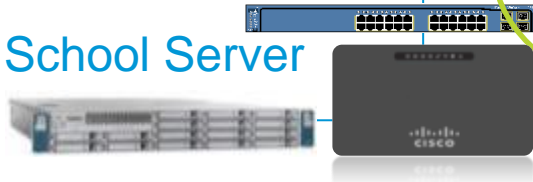


# Use Case 2 – Edge as a Point of Teaching + AP

## Teacher's Display



## School Server



## WiFi Zone

BlueLab  
Teacher  
Client  
Edge 300  
Teacher's



Student's  
BlueLab  
Student  
Client

## Elements in Place

### •SERVER SIDE

- School Server running MSTECH software stack over Windows 2008 Std ,MS SQL Express;
- DHCP (IP addresses passed along Edge and Classmates)

### •TEACHER SIDE

- EDGE Wi-Fi with mouse, keyboard and MSTECH BlueLab Teacher Client/Edubar connected to a projector (or an interactive projector). In this scenario, teacher will not use a specific laptop or tablet.

### •STUDENT SIDE

- Classmate PCs/Netbooks with Windows XP or 7 or Linux or Android (future) and MSTECH BlueLab Student Client



# Use Case 4 – “Legacy computer lab” for Isolated Schools.

## Teacher’s Display



EDUBAR  
Edge 300  
Teacher's  
School Server

## Elements in Place

### •SERVER SIDE

- Not Applicable

### •TEACHER SIDE

- EDGE Wi-Fi
- MSTECH BlueLab EDUBAR System

### •STUDENT SIDE

- None



# Posicionamento

- Edge como infraestrutura da Sala de Aula
  - Requer Solução de Rede Catalyst
- Quando usar Versão Wi-Fi?
  - Utilização da RF não requer Cisco Unified Wireless
  - Custo/Benefício/Orçamento
  - Interesse do Cliente
- Edge substituindo computador do Professor
  - Aplicações Educacionais 100% Web
  - Entender claramente se Edge comporta aplicações da sala de aula
  - Lousas digitais atualmente homologadas: eInstruction, eBeam, Smart, Promethean

# Termo de Referência para Escola Conectada

- Requisitos essenciais

- **Escolas**

- Infra da Sala de Aula (**Edge 300**)
    - Rede da Escola (**2960/3560**)
    - CPE (**ISR**)

- **Centro de Gerência**

- Infra de rede (Switch Core, Firewall, etc) (**4500/6500+Módulos**)
    - Servidor para acomodar sistema de Gerência (**UCS C-Series**)

# Modelo de aquisição de tecnologia para Educação no Brasil

Fonte: MEC 2009

## Administração:

- **Privada**

>6 mil Instituições privadas (K12+HE)

*20 maiores grupos possuem >1M alunos*

- **Estadual**

26 Secretarias de Estaduais de Educação

~70 Universidades

- **Municipal**

~6 mil Secretarias Municipais

- **Federal**

Ministério da Educação e Cultura (MEC)

~100 Universidades

Ministério da Ciência e Tecnologia (MCT)

~50 Institutos de Pesquisa

## Como Compra?

### Técnica e Preço

*Lei 11.494/07  
mínimo de 25% da Receita  
corrente Líquida  
para educação*

**Lei 8.666**





# Recursos

# Cisco Center of Innovation Rio de Janeiro – janeiro de 2013

Showroom & Incubadora de empresas  
para as Verticais:

- Educação
- Saúde
- Segurança Pública
- Mobilidade Urbana
- Esportes
- Energia

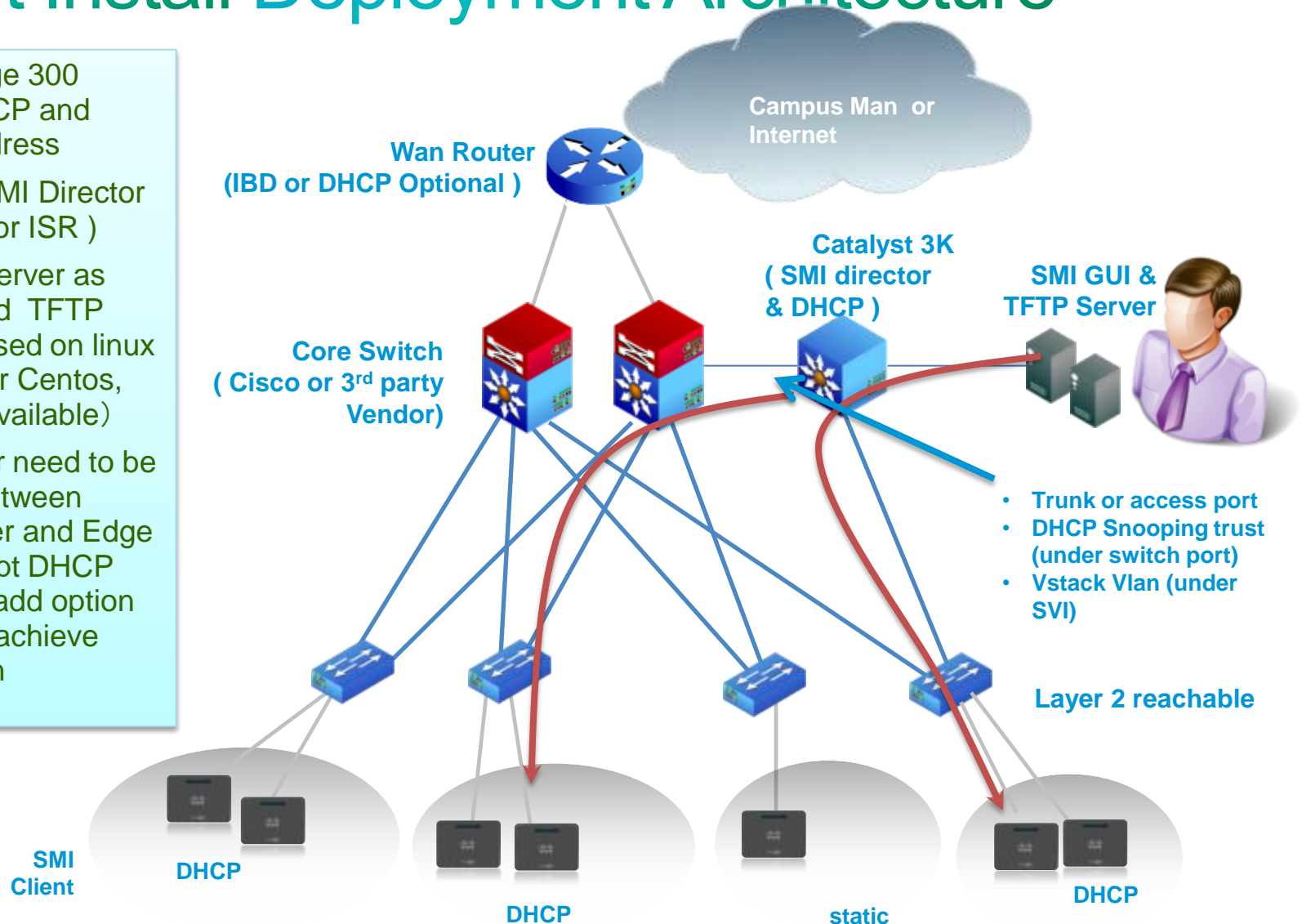
Thank you.



# Backup Slides

# Smart Install Deployment Architecture

- In V1.1, Edge 300 support DHCP and static IP address
- Need one SMI Director (3K switch or ISR )
- Need one Server as SMI GUI and TFTP Server (Based on linux Fedora 14 or Centos, and VM is available)
- SMI Director need to be deployed between DHCP server and Edge 300, intercept DHCP packet and add option segment to achieve SMI function



# Smart Install GUI server: Gerenciamento



- Home
- Manage
- Manage groups
- Manage Cisco Edges
- Configure
- Monitor
- Admin Information

## Manage Cisco Edges

Add a Cisco Edge Group Cisco Edges Search Cisco Edges

Upload a spreadsheet (Limit file size 2 MB)  Upload

ID	SN	MAC	PID	Location	Group	Action
1	FDO14410002	00:00:00:00:00:02	CS-E300-AP/K9	4F	sun_smi_grp	<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>
2	FDO14410003	00:00:00:00:00:03	CS-E300-AP/K9	4F	sun_smi_grp	<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>
3	FDO14410004	00:00:00:00:00:04	CS-E300-AP/K9	4F	sun_smi_grp	<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>
4	FDO14410005	00:00:00:00:00:05	CS-E300-AP/K9	4F	sun_smi_grp	<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>
5	FDO14410006	00:00:00:00:00:06	CS-E300-AP/K9	4F	sun_smi_grp	<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>
6	FDO14410007	00:00:00:00:00:07	CS-E300-AP/K9	4F		<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>
7	FDO14410008	00:00:00:00:00:08	CS-E300-AP/K9	4F		<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>
8	FDO14410009	00:00:00:00:00:09	CS-E300-AP/K9	4F		<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>
9	FDO1441000a	00:00:00:00:00:0a	CS-E300-AP/K9	4F		<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>
10	FDO1441000b	00:00:00:00:00:0b	CS-E300-AP/K9	4F		<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>
11	FDO1441000c	00:00:00:00:00:0c	CS-E300-AP/K9	4F		<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>
12	FDO1441000d	00:00:00:00:00:0d	CS-E300-AP/K9	4F		<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>
13	FDO1441000e	00:00:00:00:00:0e	CS-E300-AP/K9	4F		<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>
14	FDO1441000f	00:00:00:00:00:0f	CS-E300-AP/K9	4F		<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>
15	FDO14410010	00:00:00:00:01:00	CS-E300-AP/K9	4F		<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>
16	FDO14410011	00:00:00:00:01:01	CS-E300-AP/K9	4F		<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>
17	FDO14410012	00:00:00:00:01:02	CS-E300-AP/K9	4F		<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>
18	FDO14410013	00:00:00:00:01:03	CS-E300-AP/K9	4F		<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>
19	FDO14410014	00:00:00:00:01:04	CS-E300-AP/K9	4F		<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>
20	FDO14410015	00:00:00:00:01:05	CS-E300-AP/K9	4F		<a href="#">Edit</a> <a href="#">Clone</a> <a href="#">Del</a>

Total 3 pages(1/3)

[1] [2] [3]

[Next](#) [Last](#)



# Edge 300 configuração e upgrade centralizado

The screenshot displays the Cisco Smart Install configuration page for a group named 'student-1'. The interface includes a navigation menu on the left with options like Home, Manage, Configure, and Monitor. The main configuration area is titled 'Configure student-1' and contains several tabs: Basic Settings, Wifi, Ethernet Port, NFS, and Members. The 'Basic Settings' tab is active, showing fields for Group name, Password of root, Password of student, OS version, Factory mode OS version, Cisco software version, Partner software version, Fonts, Resolution, Bluetooth, Language, Time Zone, NTP Server, and Number of Cisco edges. A purple box highlights a 'switch to CLI mode' link in the top right corner. An 'Apply Settings' dialog box is open, showing fields for \*Smart Install Director IP Address (172.16.1.1), Director User Name, Telnet Password, and Privileged EXEC Mode Password. The 'Apply and reboot' button is highlighted in a blue box. The bottom of the page contains the text 'China R&D Center, Cisco System' and 'Managed by: Cisco Edge Solution Team; L'.

English

Group list > student-1

Configure student-1

switch to CLI mode

OS upgrade and configuration under same page

Apply Settings

\*Smart Install Director IP Address 172.16.1.1

Director User Name

Telnet Password

Privileged EXEC Mode Password

Apply and reboot Apply Cancel

China R&D Center, Cisco System  
Managed by: Cisco Edge Solution Team; L

# Edge 300 configuração e upgrade centralizado

Switch to CLI mode

The screenshot displays the Cisco Smart Install web interface. At the top left is the Cisco logo. The main header reads "Cisco Smart Install". In the top right corner, there is a language dropdown menu set to "English". A sidebar on the left contains navigation links: Home, Manage, Configure, Configure groups, Configure Cisco Edges, Monitor, and Admin Information. The main content area is titled "Image selection" and includes a "switch to GUI mode" link. Below this title is a form with several fields: "OS version" (dropdown), "Factory mode OS version" (dropdown), "Cisco software version" (dropdown), "Partner software version" (dropdown), "Fonts" (dropdown), "\*IP Address of Director:" (text input with "172.16.1.1"), "User Name of Director:" (text input), "Telnet Password of Director:" (text input), and "Privileged EXEC Mode Password:" (text input). Below the form is a "Configuration File:" section containing a list of configuration commands for a terminal session, such as "configure terminal", "report 172.16.1.11 8888 30", "password root", "password user", "system identifier default", "bluetooth off", "language support 1", "desktop resolution 3", "ntp server 172.16.1.1", "locale 8", "interface bvi1", "radio off", "exit", "interface fe1", "enable", "exit", "interface fe2", "enable".

English

Cisco Smart Install

Home  
Manage  
Configure  
Configure groups  
Configure Cisco Edges  
Monitor  
Admin Information

Image selection [switch to GUI mode](#)

OS version -- Select OS --  
Factory mode OS version -- Select Factory Mode OS --  
Cisco software version -- Select Cisco App --  
Partner software version -- Select 3rd Party App --  
Fonts -- Select Fonts --

\*IP Address of Director: 172.16.1.1  
User Name of Director:  
Telnet Password of Director:  
Privileged EXEC Mode Password:

Configuration File:

```
configure terminal
report 172.16.1.11 8888 30
password root ff0a0a100d1013110d100d10193b37
password user ff0a0a100d1013110d100d10193b37
system identifier default
bluetooth off
language support 1
desktop resolution 3
ntp server 172.16.1.1
locale 8
interface bvi1
radio off
exit
interface fe1
enable
exit
interface fe2
enable
```

# Edge 300 configuração e upgrade centralizado

## Monitoria remota e controle do dispositivo

Group monitoring

Don't support remote power-on

The screenshot displays the Cisco Prime Network Manager interface. On the left is a navigation menu with options: Home, Manage, Configure, Monitor, Monitor groups, Monitor Cisco Edges, and Admin Information. The main content area shows the breadcrumb path '<a href="#">Group list</a> > student-1'. Below this is a section titled 'student-1 Members' containing a table with the following data:

ID	MAC	PID	Location	IP address	Status	Operation
1	1C:AA:07:96:17:60	HS-E300-AP-K9	student-1	172.16.1.128	on	<a href="#">Details</a> <a href="#">Poweroff</a> <a href="#">Reboot</a>
2	1C:AA:07:96:1C:10	HS-E300-AP-K9	student-1	172.16.1.127	on	<a href="#">Details</a> <a href="#">Poweroff</a> <a href="#">Reboot</a>
3	1c:aa:07:96:27:50	HS-E300-AP-K9	BeiJing	---	off	<a href="#">Details</a> <a href="#">Poweroff</a> <a href="#">Reboot</a>
4	1c:aa:07:96:52:70	HS-E300-AP-K9	BeiJing	---	off	<a href="#">Details</a> <a href="#">Poweroff</a> <a href="#">Reboot</a>

Below the table, it indicates 'Total 1 page(1/1)' and '[1]'.

## Cisco Edge Details

## System

Status:	<input checked="" type="checkbox"/> On	Hostname:	intel_ce_linux
CPU:	usr 33% sys 0% nic 0% idle 0% io 22% irq 0% sirq	<a href="#">Show details</a>	
Memory:	287572K used, 1401696K free, 0K shrd, 41084K buff, 90452K cached		
Disk Usage:	Filesystem Size Used Available Use% Mounted on /dev/root 1.6G 1.0G 514.0M 67% / tmpfs 128.0M 100.0K 127.9M 0% /tmp tmpfs 4.0K 0 4.0K 0% /media tmpfs 8.0M 36.0K 8.0M 0% /var /dev/ciscoapps 1.8G 431.1M 1.3G 24% /apps /dev/Glob_Spectraa1 96.6M 77.8M 13.8M 85% /tmp/smi_spectraa1 tmpfs 32.0M 17.8M 14.2M 56% /tmp/firefox_cached		
Bluetooth:	On	Startup config:	<a href="#">Show details</a>
Hosts file:	<a href="#">Show hosts file</a>		

## Software Version

OS Version:	os-sunbird-1.1.0-delivery.tar.gz
Factory mode OS Version:	fm-os-sunbird-1.1.0-delivery.tar.gz
Cisco Software Version:	default
Partner Software Version:	3rd-app-sunbird-1.1.0-delivery.tar.gz

## Network

IP mode:	DHCP	MAC address:	1C:AA:07:96:17:60
IP Address:	172.16.1.128	Bcast:	172.16.1.255
Mask:	255.255.255.0	Gateway:	172.16.1.1
DNS Server:	<a href="#">Show DNS file</a>		

## Wifi

## Ethernet port

Port	Status	Speed	Duplex	Port Statistics	QoS	MAC address learned
1	<input checked="" type="checkbox"/> Connected	1000Mbps	full	<a href="#">Details</a>	<a href="#">Details</a>	<a href="#">MAC address list</a>
2	<input type="checkbox"/> Not connected	----	----	<a href="#">Details</a>		
3	<input type="checkbox"/> Not connected	----	----	<a href="#">Details</a>		
4	<input type="checkbox"/> Not connected	----	----	<a href="#">Details</a>		
5	<input type="checkbox"/> Not connected	----	----	<a href="#">Details</a>		

## NFS server

# Monitor Individual

# Local installation mode: Via USB flash

- Download the 1.1 USB flash file from CCO
- Make the USB disk based on 1.1 configuration guide
- Upgrade OS image to 1.1
- Also support force upgrade, click reset over 5 seconds, and go into USB upgrade process (make sure there's not SMI director in network, which takes precedence over USB mode)
- USB disk has to be in the side bar USB port

