

NAC (Clean Access): Configure Guest Access

Document ID: 107496

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Introduction

This document describes how to configure the various types of guest access on the Cisco Clean Access or NAC appliance with the Clean Access Manager (CAM).

Prerequisites

Requirements

This configuration is applicable to CAM version 3.5 and later.

Components Used

The information in this document is based on CAM version 4.1.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

Refer to the Cisco Technical Tips Conventions for more information on document conventions.

Types of Guest Access

There are three main types of guest access:

- **Single Guest Button**

- ◆ Allows guest access through a single Guest button.
- ◆ Provides Acceptable User Page to Accept/Deny.
- ◆ Provides policy, bandwidth and session/inactivity controls.
- ◆ Does not log individual guest usernames.
- ◆ Does not prevent guest relogin/reuse.

- **Local User Guest Account**

- ◆ Allows lobby admin to edit the Local User field only.
- ◆ Allows users to create/delete/change multiple guest accounts.
- ◆ Logs individual guest usernames in Online User.
- ◆ Provides AUP, policy/bw/session/inactivity controls.
- ◆ Does not automatically delete guest accounts.

- **External Guest Portal through Clean Access API**

- ◆ Supports remote guest portal through APIs (https).
- ◆ Allows users to create/delete/change multiple guest accounts.
- ◆ Supports external DB/AD for all employee guest account creation.

Note: The guest user can be authenticated by using HTTPS only, but not through HTTP. The hotspots are supported via HTTPS only.

Configure Single Guest Button

You can use the single guest button in two modes:

- **Wired Guest Access (BEST)**

- ◆ For use in conference rooms, training rooms, visitor Kiosks
- ◆ Users can only access the Guest network when allowed or accompanied by employees
- ◆ Restricts Guest access to the Internet only
- ◆ Can have different login pages based on Wired VLAN (marketing)

- **Wireless Guest Access (DEPENDS)**

- ◆ Good if the APs reach within campus only
- ◆ Users in the parking lot can obtain Guest access

Complete these steps:

1. **Create User Role:**

- a. In CAM, choose **User Management > User Role** in order to create the **Guest** user role, as shown.
- b. Optional: Specify a Redirect URL upon Guest Login.

List of Roles | Edit Role | Traffic Control | Bandwidth | Schedule

Disable this role

Role Name:

Role Description:

Role Type:

*VPN Policy:

*Dynamic IPsec Key: Enable Disable

*Max Sessions per User Account (Case-Insensitive): (1 - 255; 0 for unlimited)

Retag Trusted-side Egress Traffic with VLAN (In-Band): (0 - 4095, or leave it blank)

Out-of-Band User Role VLAN: (0 - 4095)

*After Successful Login Redirect to: previously requested URL this URL: (e.g. http://www.cisco.com/)

2. Choose **User Management > Traffic Control > IP** in order to create a Traffic Policy for **Guest**, such as "to Internet router through port 80/443 only."

List of Roles | New Role | Traffic Control | Bandwidth | Schedule

IP · Host

Guest | Untrusted->Trusted | Select | [Add Policy to All Roles](#)

Guest				Add Policy
Action	Protocol	Untrusted	Trusted	Enable Edit Del Move
Allow	TCP	*:*	172.19.0.0 /255.255.0.0 :80,443	<input checked="" type="checkbox"/>
Allow	UDP	*:*	*:53	trusted dns server
Block	ALL			

(* DNS in Real-IP and NAT Gateway; DNS/DHCP in Virtual Gateway.)

3. Choose **User Management > Local Users > New** in order to create the new **guest** user.

List of Local Users | Edit Local User

Disable this account

User Name:

Password:

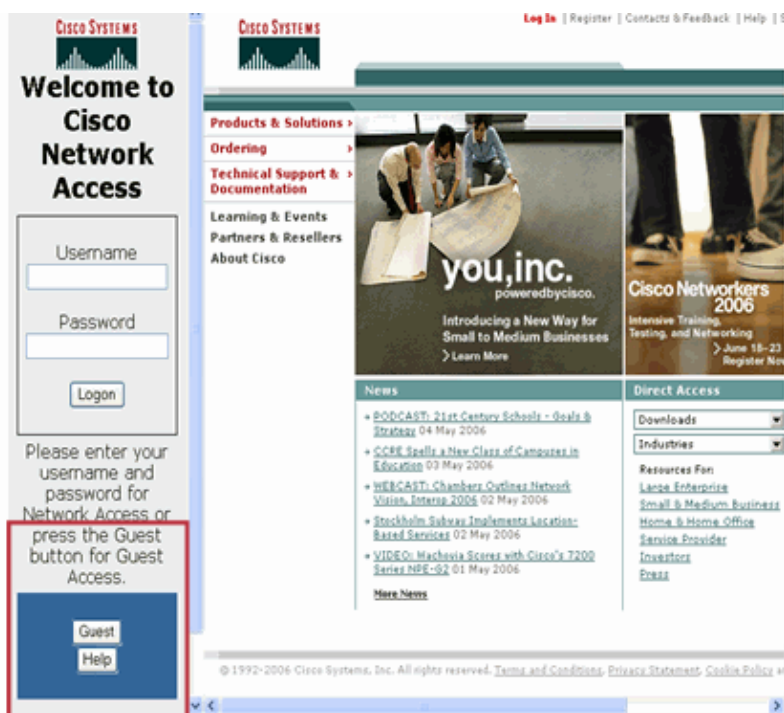
Confirm Password:

Description:

Role:

4. Choose **Administration > User Pages > Login Page > Add** in order to specify information for the User Page, such as Image, Title, Guest Label, and Instructions.

5. Create a Framed User Page for Marketing or Branding.



- ◆ Right frame access (e.g to cisco.com only) is allowed in the Unauthenticated Role.
- ◆ Once the user clicks on Guest, the user can access the Internet as well.

Configure Local User Guest Account

Local User Guest Account

- Lobby Admin must logon to Clean Access Manager with restricted Local User access only.
- Lobby Admin must create/delete/modify Guest accounts manually.
- Event logs show specific Guest account creation by timestamp and guest account login.
- Allows multiple redirect pages based on types of Guest roles. For example, guest_to_training redirects to www.cisco.com/go/training.
- Does not prevent Guest account relogin until deleted from the Local User.
- Best for medium to low Guest account creation, such as 20 visitors per week.

Complete these steps:

1. Choose **Administration > Admin Users > Admin Groups** in order to create the **Lobby Admin** group. Select **full control** in the drop-down menu for the Local Users field.

Admin Users | **Admin Groups**

List · New

Disable this group

Group Name: Lobby Admin

Description: Lobby Admin

Access Control Policy:

Clean Access Servers Default Clean Access Server Access: read only

Clean Access Server 172.19.106.13: read only

Module Features Default Feature Access: read only

Clean Access Servers Management: read only

Device Filters (MAC & Subnet): read only

Roaming: read only

Certified & Floating Devices: read only

Network Scanner (Nessus): read only

Clean Access Agent: read only

Switch Management: read only

User Roles: read only

Authentication Servers: read only

Local Users: full control

2. Choose **Administration > Admin Users > Admin Users** in order to create the **lobby** username with a password, **xxxxxx**.

Click **Create Admin**, and click **Create Admin**.

Admin Users | **Admin Groups**

Active Sessions · List · New

Disable this account

Admin User Name: Lobby

Password: ●●●●●●

Confirm Password: ●●●●●●

Group Name: Lobby Admin

Description: Lobby Admin

Create Admin Reset

3. Create multiple user roles based on time usage, such as **Guest_4hours**, **Guest_8hours**, and **Guest** (1 hour).

Guest_4hours	deny	deny	Guest for 4 hours		
Guest_8hours	deny	deny	Guest for 8 hours		

4. Edit the user roles based on the schedule.

Guest_4hours	240	Guest access for 4 hours	
Guest_8hours	480	Guest access for 8 hours	

5. The **Lobby Admin** creates a Local User and assigns a user to a specific Guest role, clicks **Create User**.

List of Local Users | **New Local User**

Disable this account

User Name:

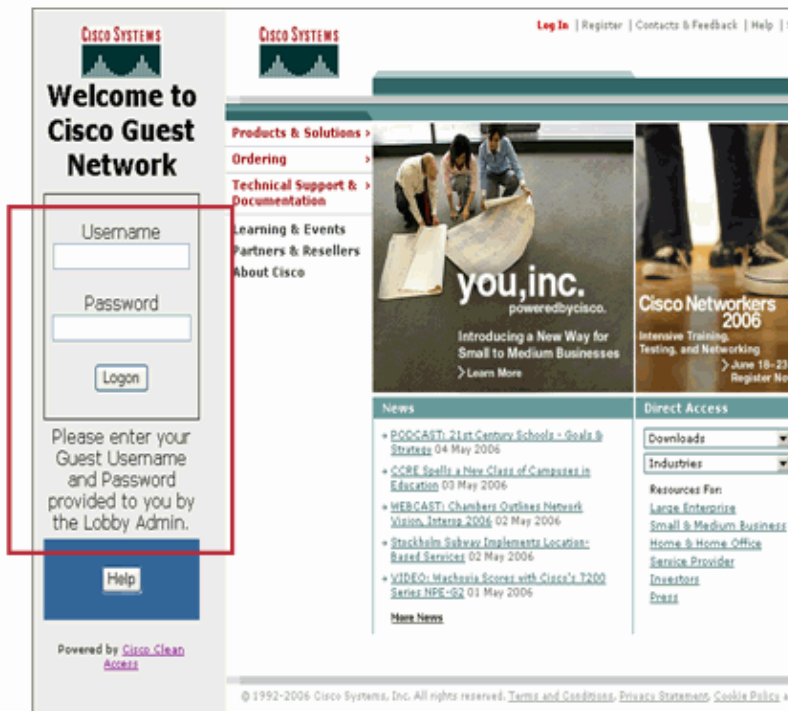
Password:

Confirm Password:

Description:

Role:

6. Create a Framed User Page for Marketing or Branding



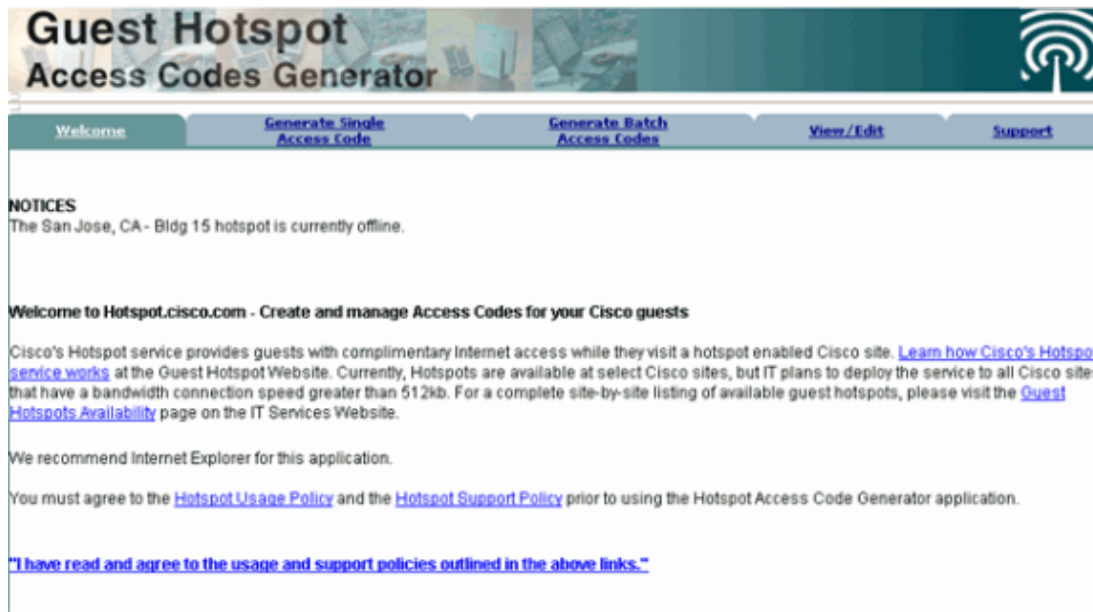
- ◆ Right frame access (e.g to cisco.com only) is allowed in the Unauthenticated Role.
- ◆ Once the user enters a username/password, the user can access the Internet as well.
- ◆ Can redirect a specific Guest type to a URL for marketing.

External Guest Portal through API

- Best for high Guest account creation, such as 20 visitors per day.
- Best if there are security concerns over CAM access by Lobby Admin.
- External portal can be built by customers or Cisco Advanced Services.
- Portal can have calendaring, emailing, printing and reporting functions.
- Portal can perform billing or accounting information to billing.
- Cisco Clean Access API utility script, `cisco_api.jsp`, provides three functions that allow administrators to create, delete, and view local user accounts on the CAM:

- ◆ `getlocaluserlist` Returns a list of local users with user name and role name.
- ◆ `addlocaluser` Takes user name, password, and role name. Returns success or failure.
- ◆ `deletelocaluser` Takes user name or "ALL" (to delete entire list). Returns success or failure.

- Cisco Clean Access inactivity timer logouts the user when inactive (in-band mode).



The screenshot shows the 'Guest Hotspot Access Codes Generator' web application. The header features the title and a wireless signal icon. A navigation bar includes links for 'Welcome', 'Generate Single Access Code', 'Generate Batch Access Codes', 'View/Edit', and 'Support'. The main content area contains a 'NOTICES' section with a message about a San Jose hotspot being offline. Below this is a welcome message and a detailed paragraph explaining the service, including links for 'Learn how Cisco's Hotspot service works' and 'Guest Hotspots Availability'. It also includes a browser recommendation for Internet Explorer and a requirement to agree to the 'Hotspot Usage Policy' and 'Hotspot Support Policy'. At the bottom, there is a checkbox with the text: "I have read and agree to the usage and support policies outlined in the above links."

Related Information

- [Cisco NAC Appliance Support Page](#)
- [Technical Support & Documentation – Cisco Systems](#)

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Updated: Jul 02, 2008

Document ID: 107496
