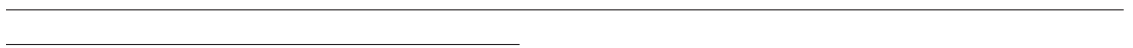CI CO

Preface

Cisco Validated Designs (CVDs) provide the framework for systems design based on common use cases or

Design Overview

This deployment uses a wireless network in order to provide ubiquitous data and voice connectivity for employees and to provide wireless guest access for visitors to connect to the I

Figure 1 - Wireless overview

Figure 4 - Wireless architecture overview

Step 1: Open an MMC console, and then click **File** > **Add/Remove Snap-in**.
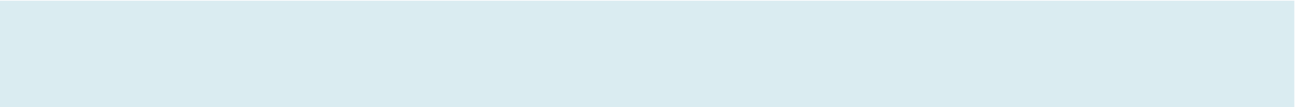
Step 2:

Step 4: In the Configure 802.1X wizard, under Type of 802.1X connections, select

Step 7: O

Table 2 - Cisco on-site wireless controller parameters checklist

Step 4:

Step 6: Configure an 802.1Q trunk to be used for the connection to the WLCs. This permits Layer 3 services to all the networks defined on the WLC. The VLANs allowed on the trunk are limited to only the VLANs that are active on the WLC.
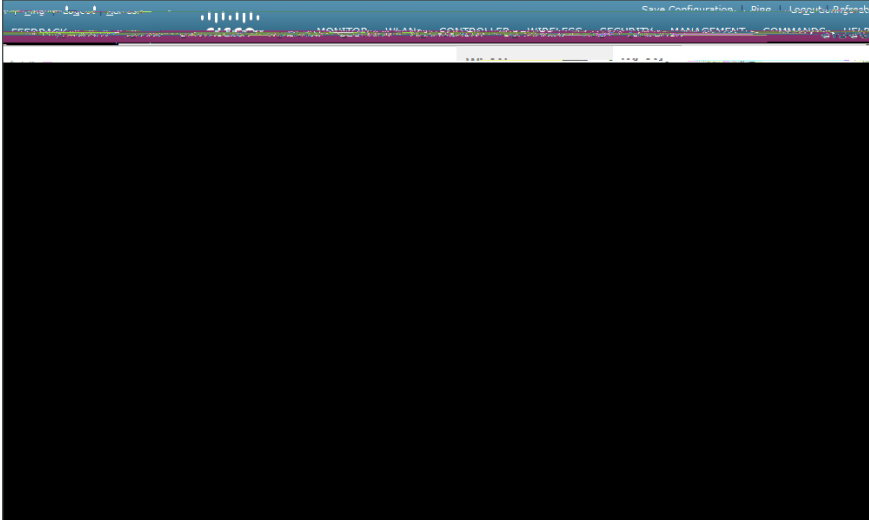
|

Step 6: Enter and confirm the **Shared Secret**, and then click **Applyed Secret**

Step 13:

Step 2: Click the WLAN ID number of the SSID created in Procedure 3. (Example: WLAN-Data)

Step 3: On the General tab, in the **Interface/Interface Group(G)** list, choose the interface created in Procedure 10. (Example: wireless-data)

*Figure 5 - Flow chart of WLC discovery configuration options*

Option 2: Multiple WLC pairs in the organization: Cisco IOS DHCP server

In a network where there is no external, central-site DHCP server, you can provide DHCP service with Cisco IOS software. This function can also be useful at a 2 l0 2 ʊ 4.3(o)14(e) ite Dhere tou cwn 3.8(t a)13.9(o b)-6.rovide Dl-4.71o

Step 3: In the DHCP Vendor Classes dialog box, click

Step 8: In the **Option Class** list, choose the class created in Step 4, and then click **Add**.
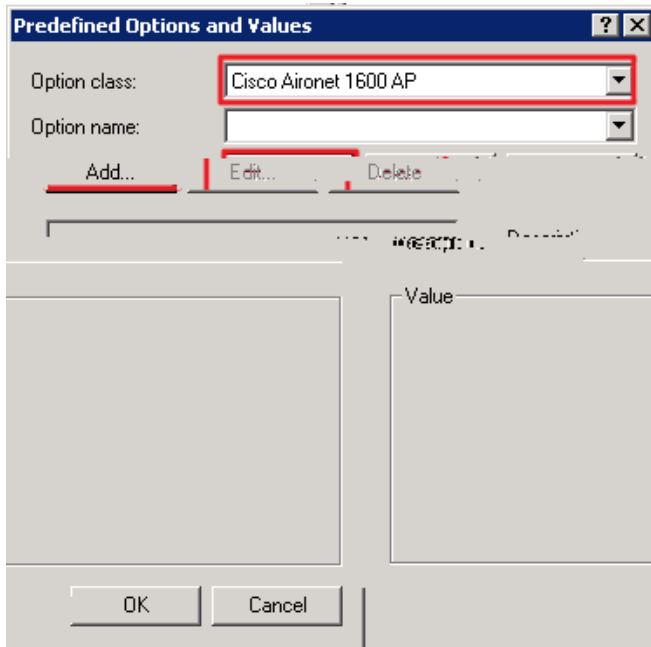
Step 9: In the Option Type dialog box, enter a **Name**. (Example: Option 43)
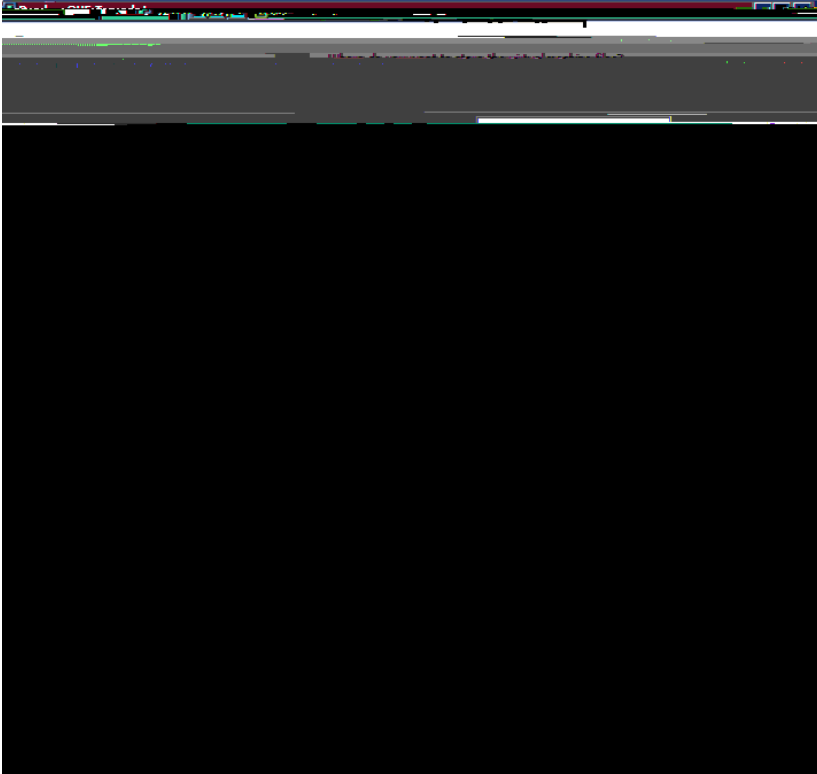
Step 10: In the **Data Type** list, choose **IP Address**.

Step 11: Select **Array**.

Step 12: In the

Step 4: On the Storage page, select the storage destination of the virtual machine.

Step 5: On the Disk Format page, select **Thick Provision Lazy Zeroed**.

Deployment Details

Step 3: In the left column, start the virtual wireless LAN controller for the first time by selecting the virtual machine

Step 4:

Step 15: Enable all wireless networks.

```
        Enable 802.11b network [YES][no]: YES
        Enable 802.11a network [YES][no]: YES
        Enable 802.11g network [YES][no]: YES
```

Step 3: E

Step 9: Navigate to

Step 3: In the **SSID** box, enter the voice WLAN name, and then click **Apply**. (E

Option 2: Dual WAN remote-site routers

Step 1:

```
 standby 1 authentication md5 key-string cisco123
!
interface GigabitEthernet0/2.70
 description Wireless Voice
 encapsulation dot1Q 70
 ip address 10.5.43.3 255.255.255.0
 ip helper-address 10.4.48.10
 ip pim dr-priority 105
 ip pim sparse-mode
 standby version 2
 standby 1 ip 10.5.43.1
 standby 1 priority 105
 standby 1 preempt
 standby 1 authentication md5 key-string cisco123
```

Step 3: |

Step 7:

Step 6: In the

Step 13:

Step 10: In the **Translated Addr**

Step 17:

Step 7: In the **Primary DHCP Server** box, enter the IP address of your organization's DHCP server, and then click **Apply**. (Example: 10.4.48.10)

Step 6: On the **Layer 3** tab, select **Web Policy**, and then click **OK**.

Step 7: On the QoS tab, in the **Quality of Service (QoS)** list, choose **Bronze (background)**, and then click **Apply**.

Step 8: On the General tab, to the right of S

Now you can use the lobby administrator account to create usernames and passwords for partners, customers, and anyone else who is not normally granted access to your network.
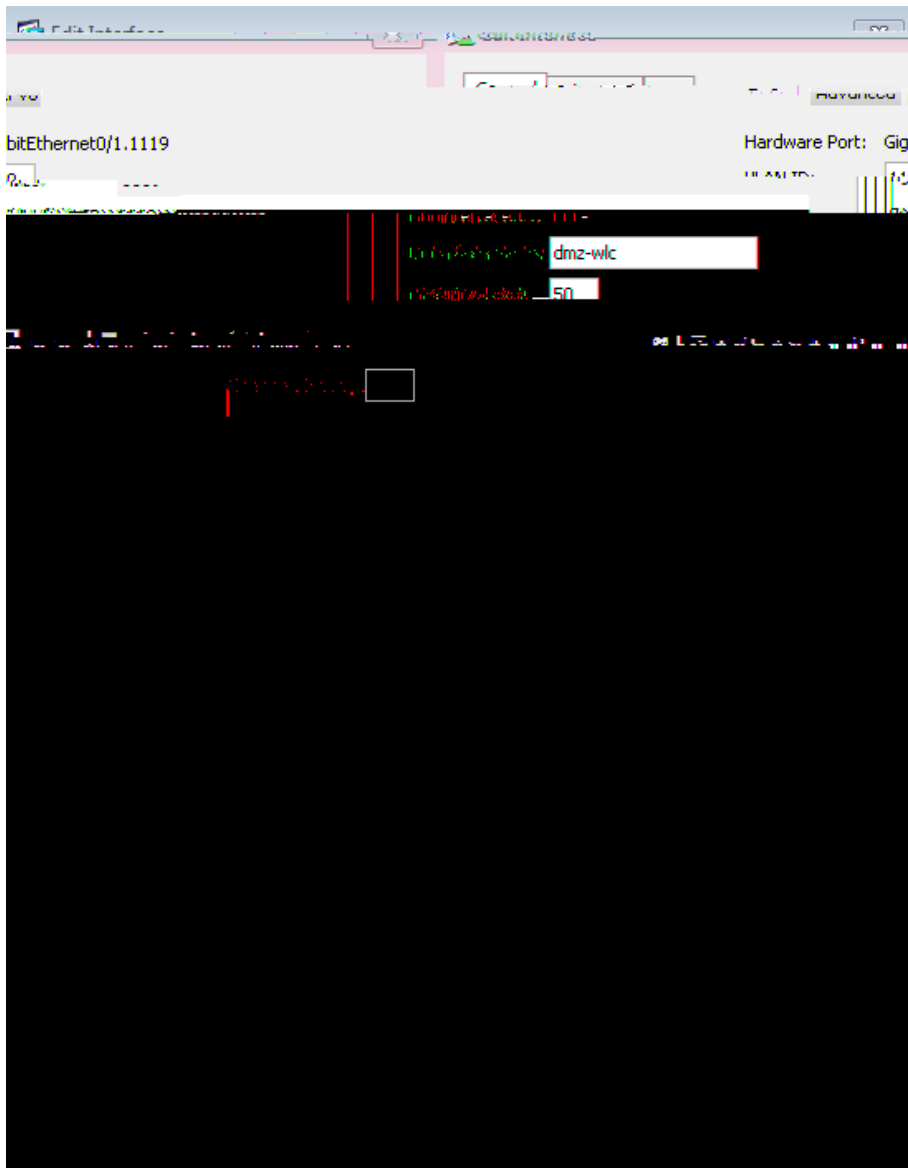
Step 1:

Step 2:

Step 12: Enter the interface **Subnet Mask**, and then click **OK**. (Example: 255.255.255.0)

Step 13: Navigate to **Configuration > Device Management > High Availability and Scalability > FD7> 37(a)-4.6(o-297 A

Step 12:

Step 19: Create a Network Object G

Option 2: Centralized lobby admin user account

Create groups in the Cisco SS

Step 20: In the **Shell Profile** bo, enter

Step 5: On the Layer 3 tab, select **Web Policy**.

Step 6: On the QoS

Appendix A: Product List

Wireless LAN Access Points

Please use the feedback form to send comments and