

E-MSM720 HP Controller Kurulum Prosedürü

Birden fazla SSID dağıtılacaksa Controller'a verilecek IP'nin VLAN'ı Switch'de untagged olmak zorunda.

Controller ve AP'lerin bağlı olduğu portlar trunk olacak.

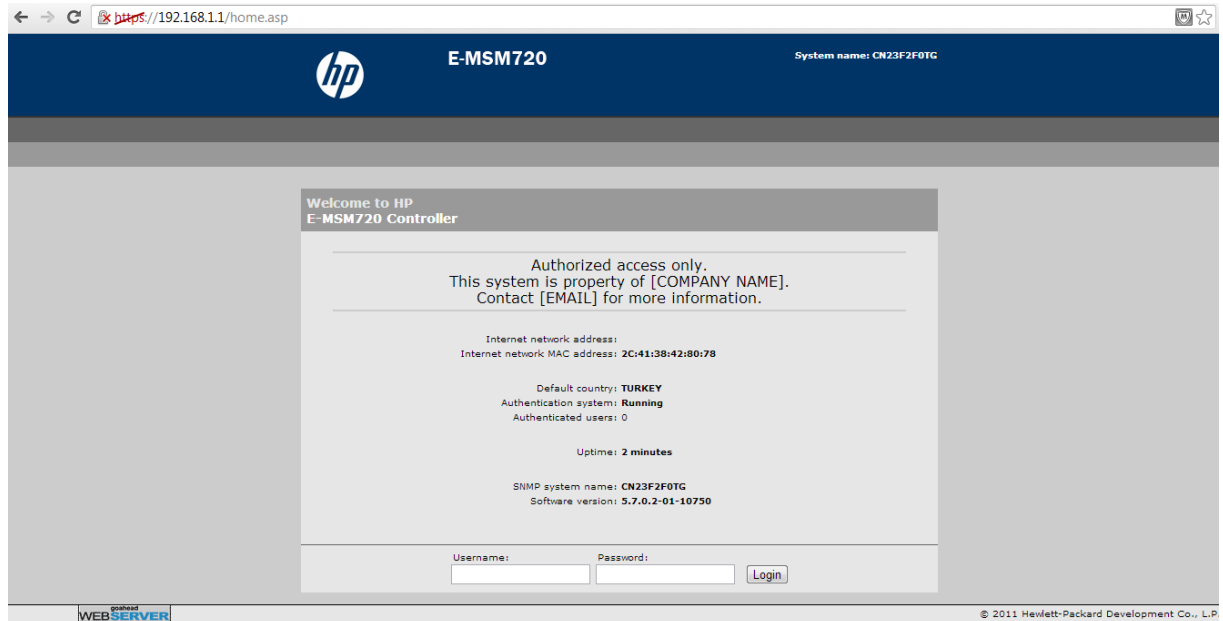
Default IP'den web üzerinden controller'a erişilir. <https://192.168.1.1>

Default User :admin

Default Password :admin

Kurulum Adımları:

1. Controller'a IP verilmesi. Verilen IP'nin VLAN ID'si **untagged** olmak zorunda. Aynı zamanda AP'lerin IP alması için aynı VLAN'da DHCP ile IP dağıtılmış olması gerekiyor.
2. Eger farklı VLAN'lar farklı SSID'ye atanacaksa AP'lerin olduğu portların Trunk yapılması. Controller'ın bağlı olduğu port trunk yapılır. SSID olarak dağıtılacaklar ise tagged olacak.
3. VSC'ler (aynı zamanda SSID tanımlanan profile'dır.) tanımlanır. Her SSID için ayrı yapılır.
4. Network Profile tanımlanır.
5. VSC'lere network profile atanır (VSC Bindings işlemi uygulanır.) **Dikkat:** Soldaki Default Group'a kliklenirse VSC Bindings menüsü çıkar. Aksi halde AP'ler yayın yapması için gerekli ayarlar yapılamaz.
6. Controller'da **DNS Interception** iptal edilir.
7. Ip Route menusunda gateway girilir.



E-MSM720 HP Controller Kurulum Prosedürü


The screenshot shows the HP E-MSM720 Controller Home page. The browser address bar shows <https://192.168.1.1/home.asp>. The page has a blue header with the HP logo, the title "E-MSM720", and the system name "CN23F2F0TG". Below the header is a navigation bar with links: Home, Logout, Automated workflows, Network, Security, VPN, Controlled APs, Authentication, Public access, Users, Management, Status, Tools, and Maintenance. The main content area is divided into two sections. On the left is a sidebar with a "Summary" section showing "Controlled APs" with counts for Pending (8), Detected (8), and Configured (0). Below this is a "Network Tree" section with a "Controller" link. The right section is titled "Welcome to HP E-MSM720 Controller" and contains system information: Internet network address, Internet network MAC address (2C:41:38:42:80:78), Default country (TURKEY), Authentication system (Running), Authenticated users (0), Uptime (3 minutes), SNMP system name (CN23F2F0TG), Software version (5.7.0.2-01-10750), Hardware revision (J9694-60101:56), and Serial number (CN23F2F0TG). At the bottom of this section are "Restart" and "Register" buttons. The footer shows "Refresh On - 5 secs. 11 Msg(s)." and "© 2011 Hewlett-Packard Develop".

Login olduğunda yukarıdaki ekran gelir.

The screenshot shows the HP E-MSM720 Controller Automated workflows page. The browser address bar shows <https://192.168.1.1/workflows/main.asp>. The page has the same blue header and navigation bar as the previous screenshot. The main content area is divided into two sections. On the left is the same sidebar as before. The right section is titled "Automated workflows" and contains a message: "These workflows help you quickly configure common controller settings. Changes are not saved to the controller until you click Apply on the workflow summary page." Below this is a list of workflows: "Configure initial controller settings", "Create a wireless network for employees", and "Create a wireless network for guests". The "Configure initial controller settings" workflow is selected and highlighted. To the right of the list is a "Description" section for the selected workflow: "This workflow helps you define basic operational settings for the controller, including network connections, security settings, and system time. It is recommended that you run this workflow before any other workflow." Below the description is a "Prerequisites" section with the value "None". At the bottom of the right section are "Home" and "Start" buttons. The footer shows "2012-01-05 06:57:53", "Refresh On - 5 secs. 11 Msg(s).", and "© 2011 Hewlett-Packard Dev".

Sol üst köşede **Automated workflows** kliklenerek kurulum sihirbaz ekranı gelir.

E-MSM720 HP Controller Kurulum Prosedürü



E-MSM720

System name: CN23F2F0TG

HomeLogout

Automated workflows

NetworkSecurityVPNControlled APsAuthenticationPublic accessUsersManagementStatusToolsMain

Summary

Controlled APs

Pending	8
Detected	8
Configured	0

Network Tree

Controller

Configure initial controller settings

System attributes > Manager password > Management interfaces > Networking > Date and time > Summary

Set basic system attributes.

System name: Batik_720_Controller

Default value is the device serial number.

System location: Gunesli


System contact: Ferit OSOYDAN

Login message: Authorized access only.
This system is property of BATIK.
Contact

Cancel

For help, click the ? in the top right corner.

BackNext



E-MSM720

System name: CN23F2F0TG

HomeLogout

Automated workflows

NetworkSecurityVPNControlled APsAuthenticationPublic accessUsersManagementStatusToolsMain

Summary

Controlled APs

Pending	8
Detected	8
Configured	0

Network Tree

Controller

Configure initial controller settings

System attributes > Manager password > Management interfaces > Networking > Date and time > Summary

Change the login password for the manager account.

Leave all fields blank to keep the current password.

Username: admin

Current password:


New password:

Confirm new password:

Cancel

For help, click the ? in the top right corner.

BackNext



E-MSM720

System name: CN23F2F0TG

HomeLogout

Automated workflows

NetworkSecurityVPNControlled APsAuthenticationPublic accessUsersManagementStatusToolsMain

Summary

Controlled APs

Pending	8
Detected	8
Configured	0

Network Tree

Controller

Configure initial controller settings

System attributes > Manager password > Management interfaces > Networking > Date and time > Summary

Enable/disable management interfaces.

For increased security, turn off any management interfaces that you do not want to use.

If you leave an interface on, its default configuration settings apply (security/password), which may allow third-party devices to access the controller.

Simple Network Management Protocol (SNMP): ☐ Off ☒ On

Simple Object Access Protocol (SOAP): ☐ Off ☒ On

Command Line Interface (CLI) for access via SSH: ☐ Off ☒ On


Cancel

For help, click the ? in the top right corner.

BackNext

E-MSM720 HP Controller Kurulum Prosedürü

← → ↻ https://192.168.1.1/workflows/basic_setup_step4.asp

**E-MSM720**System name: CN23F2F0TG

HomeLogout

Automated workflows

NetworkSecurityVPNControlled APsAuthenticationPublic accessUsersManagementStatusTools

Summary ?
Controlled APs
Pending 7
Unresponding 1
Detected 8
Configured 0

Network Tree ?
Controller

Configure initial controller settings
System attributes > Manager password > Management interfaces > **Networking** > Date and time > Summary ?

Configure the network interfaces on the controller.


Internet network IP address
☒ Keep current configuration (DHCP client)
☐ Automatic (DHCP client)
☐ Manual
Address:
Mask:
Gateway:
DNS 1:
DNS 2:
DNS 3:

Static Access network IP address
Address:
Mask:

2012-01-05 07:03:28 Refresh On - 5 secs. 11 Msg(s). © 2011 He

Yukarıda Sağ tarafta Controller'a verilecek IP girilir. Dikkat edilirse bu ekranda gateway yazılamıyor. Bu nedenle gateway daha sonra ip route menüsünden girilecektir.

← → ↻ https://192.168.1.1/workflows/basic_setup_step5.asp

**E-MSM720**System name: CN23F2F0TG

HomeLogout

Automated workflows

NetworkSecurityVPNControlled APsAuthenticationPublic accessUsersManagementStatusTools

Summary ?
Controlled APs
Pending 8
Detected 8
Configured 0

Network Tree ?
Controller

Configure initial controller settings
System attributes > Manager password > Management interfaces > Networking > **Date and time** > Summary ?

Set the system date and time.
Accurate system date and time are important for proper operation.

☐ Automatic (using a time server)
Available time servers:
New time server: Add
☒ Manual
2012 / 9 / 28 22 : 3 : 52
yyyy mm dd hh mm ss
Timezone:
☒ Adjust for daylight savings time

Cancel For help, click the ? in the top right corner. Back Next

2012-01-05 07:03:28 Refresh On - 5 secs. 11 Msg(s). © 2011 He

E-MSM720 HP Controller Kurulum Prosedürü

The screenshot shows the HP E-MSM720 Controller web interface. The top navigation bar includes the HP logo, the title "E-MSM720", and the system name "Batik_720_Controller" with location "Gunesli". Below the navigation bar, there are tabs for "Automated workflows", "Network", "Security", "VPN", "Controlled APs", "Authentication", "Public access", "Users", "Management", "Status", "Tools", and "Maintenance". The "Automated workflows" tab is selected. On the left, there is a "Summary" section with a table showing the status of controlled APs: Synchronized (6), Pending (2), Detected (8), and Configured (8). Below this is a "Network Tree" section showing a hierarchy: Controller (selected), VSCs, HP, and Batik. The main content area is titled "Automated workflows" and contains a list of workflows: "Configure initial controller settings", "Create a wireless network for employees" (highlighted), and "Create a wireless network for guests". A "Description" section explains that the workflow helps setup a new wireless network for employees. A "Prerequisites" section states that controlled APs should be defined and configured. At the bottom, there are "Home" and "Start" buttons.


Yukarıdaki sihirbaz ekranında şirket içi SSID için gerekli adım seçilir.

The screenshot shows the HP E-MSM720 Controller web interface at the "Create a new wireless network" step. The top navigation bar is the same as the previous screenshot. The "Automated workflows" tab is selected. The "Summary" section on the left shows the status of controlled APs: Synchronized (7), Pending (1), Detected (8), and Configured (8). The "Network Tree" section shows the hierarchy: Controller (selected), VSCs, HP, and Batik. The main content area is titled "Wireless network > Wireless security > AP groups > Summary". It contains a section "Create a new wireless network." with a text input field for "Wireless network name (SSID)" containing "Batik_Misafir". Below this is a "Client traffic management" section with two radio buttons: "Distributed" (selected) and "Centralized". The "Distributed" option has a "Send traffic to:" dropdown set to "AP Ethernet port (untagged)". The "Centralized" option has a "Send traffic to:" dropdown set to "Define a new network profile". Below this, there are fields for "Network profile" (set to "Batik_Misafir_Profile"), "Tagged VLAN ID" (set to "4"), and "Port binding" (set to "Port 1"). At the bottom, there are "Cancel", "Back", and "Next" buttons.

Ortamda birden fazla SSID'yi farklı vlanlarla eşleyip dağıtmak isteniyorsa ilgili SSID'ye ilgili VLAN ID atanır

E-MSM720 HP Controller Kurulum Prosedürü

← → ↻ https://10.10.100.234/workflows/enterprise_wireless_access_step2.asp

**E-MSM720**

System name: Batik_720_Controller
Location: Gunesli

HomeLogout

Automated workflows

Summary

Controlled APs

Synchronized 8

Detected 8

Configured 8

Network Tree

Controller

VSCs

HP

Batik

Controlled APs

Create a wireless network for employees

Wireless network > Wireless security > AP groups > Summary

Protect the wireless network.

It is strongly recommended that you protect the wireless network by enabling wireless security.

☒ Enable wireless security

Mode: WPA2 (AES/CCMP)

Key source: Preshared key

Configure authentication

Define how login credentials for employees/staff will be validated.

Preshared key:

Confirm preshared key:

Cancel


For help, click the ? in the top right corner.

BackNext

2012-09-28 22:07:49 Refresh On - 5 sec. (5 Min(s)) © 2011 Hewlett-Packard

Şifreleme metodu seçilir.

← → ↻ https://10.10.100.234/workflows/enterprise_wireless_access_step3.asp

**E-MSM720**

System name: Batik_720_Controller
Location: Gunesli

HomeLogout

Automated workflows

Summary

Controlled APs

Synchronized 8

Detected 8

Configured 8

Network Tree

Controller

VSCs

HP

Batik

Controlled APs

Create a wireless network for employees

Wireless network > Wireless security > AP groups > Summary

Apply employee access settings to your APs.

Employee access settings must be applied to all AP groups that will support employee access.

☒ Apply employee access settings to all AP groups that are defined on the controller.

☐ Apply employee access to the AP groups selected below.

Available groups:

Default Group

Selected groups:

Add a new group:

Name: Add

Cancel

For help, click the ? in the top right corner.

BackNext

2012-09-28 22:08:16 Refresh On - 5 sec. (5 Min(s)) © 2011 Hewlett-Packard

E-MSM720 HP Controller Kurulum Prosedürü

← → ↻ https://10.10.100.234/workflows/enterprise_wireless_access_summary.asp

hp **E-MSM720** System name: Batik_720_Controller Location: Gunesli

Home Logout

Automated workflows

Summary

Controlled APs

Synchronized 8
Detected 8
Configured 8

Network Tree

Controller

VSCs

HP

Batik

Controlled APs

Create a wireless network for employees

Wireless network > Wireless security > AP groups > Summary

Summary of configuration changes.

The following configuration changes will be applied to the controller.

Wireless network

Wireless network name (SSID): Batik_Misafir
Client traffic management: Centralized at the controller
Network profile: Batik_Misafir_Profile (new)
Tagged VLAN ID: 4
Tagged ports: Port 1

Wireless security

Mode: WPA2 (AES/CCMP)
Key source: Preshared key

AP groups

Default Group

Cancel Click **Apply** to save these settings or click **Cancel** to discard all settings. Back Apply

Bu aşama ile örnek bir SSID tanımlamış olduk. Her SSID için bu sihirbaz ekranında tekrar tanım yapmak gerekecektir.

← → ↻ https://10.10.100.234/centcfg/ap_overview.asp?entity=devgroup&selector=Default%20Group

hp **E-MSM720** System name: Batik_720_Controller Location: Gunesli

Home Logout

Automated workflows

Overview VSC bindings Configuration Group management Tools Provisioning

Discovered APs Configured APs Wireless clients Wireless rates Neighborhood Local mesh neighborhood Local mesh links RTLS

Summary

Controlled APs

Synchronized 8
Detected 8
Configured 8

Network Tree

Controller

VSCs

HP

Batik

Batik_Misafir

Tiffany

Tiffany_Misafir

Controlled APs

Default Group

CN1BDWZ10Z

CN1BDWZ114

CN1BDWZ118

CN1BDWZ119

CN1BDWZ11Y

CN1BDWZ11Z

CN23DWZ2WV

CN23DWZ2X0

Group: Default Group | Discovered APs

Number of access points: 8

Select the action to apply to all listed APs: -- Select an Action -- Apply

Status	Controlled AP name	Serial number	Wireless services	Wireless clients	Diagnostic	Action
✓	CN1BDWZ10Z	CN1BDWZ10Z	✓	1	Synchronized	Remove
✓	CN1BDWZ114	CN1BDWZ114	✓	0	Synchronized	Remove
✓	CN1BDWZ118	CN1BDWZ118	✓	0	Synchronized	Remove
✓	CN1BDWZ119	CN1BDWZ119	✓	0	Synchronized	Remove
✓	CN1BDWZ11Y	CN1BDWZ11Y	✓	0	Synchronized	Remove
✓	CN1BDWZ11Z	CN1BDWZ11Z	✓	0	Synchronized	Remove
✓	CN23DWZ2WV	CN23DWZ2WV	✓	0	Synchronized	Remove
✓	CN23DWZ2X0	CN23DWZ2X0	✓	0	Synchronized	Remove

✓ = AP Mode ✓ = Local Mesh Mode ✓ = AP/Local Mesh Mode 🔍 = Monitor Mode 📡 = Sensor Mode ✗ = Disabled

2012-09-28 22:44:04 Refresh On: 5 sec. 16 Men(s). © 2011 Hewlett-Packard

AP'lerin bağlı olduğu portlar ile controller portu trunk yapılmışsa yukarıdaki gibi tüm AP'ler yeşil hale gelir.

E-MSM720 HP Controller Kurulum Prosedürü

← → ↻ https://10.10.100.234/centcfg/vlan_list.asp?entity=devgroup&selector=Default%20Group

hp **E-MSM720** System name: Batik_720_Controller Location: Gunesli

Home Logout

Automated workflows Overview VSC bindings Configuration Group management Tools Provisioning

VLANs Radios Switch ports 802.1X Multicast Local mesh Local networks LLDP RADIUS profiles Sensor Services STP

Summary [Controlled APs](#)
Unsyncronized 8
Detected 8
Configured 8

Network Tree [Controller](#)
VSCs
HP
Batik
Batik_Misafir
Tiffany
Tiffany_Misafir
Controlled APs
Default Group
CN1BDWZ10Z
CN1BDWZ114
CN1BDWZ118
CN1BDWZ119
CN1BDWZ11Y
CN1BDWZ11Z

Group: Default Group | VLANs ☒ Inherited ?

Number of matching VLANs: 6 [Show all VLANs](#)

Filter VLANs by: Network profile Apply

Select the action to apply to the selected network profiles: -- Select an Action -- Apply

<input type="checkbox"/> Network profile	VLAN ID	Location	Tagged	Untagged	VSC Egress
<input type="checkbox"/> Access network	1	None			
<input type="checkbox"/> Batik_Misafir_Profile	5	None			
<input type="checkbox"/> Batik_Profile	4	None			
<input type="checkbox"/> Internet network	10	None			
<input type="checkbox"/> Tiffany_Misafir_Profile	14	None			
<input type="checkbox"/> Tiffany_Profile	13	None			

Save

Yukarıdaki gibi 4 adet SSID tanımlandı. Access network ve Internet network ise varsayılan olarak önceden tanımlıdır.

← → ↻ https://10.10.100.234/centcfg/vlan_mapping.asp?entity=devgroup&selector=Default%20Group

hp **E-MSM720** System name: Batik_720_Controller Location: Gunesli

Home Logout

Automated workflows Overview VSC bindings Configuration Group management Tools Provisioning

VLANs Radios Switch ports 802.1X Multicast Local mesh Local networks LLDP RADIUS profiles Sensor Services STP

Summary [Controlled APs](#)
Unsyncronized 8
Detected 8
Configured 8

Network Tree [Controller](#)
VSCs
HP
Batik
Batik_Misafir
Tiffany
Tiffany_Misafir
Controlled APs
Default Group
CN1BDWZ10Z
CN1BDWZ114
CN1BDWZ118
CN1BDWZ119
CN1BDWZ11Y
CN1BDWZ11Z

Group: Default Group | VLANs ☒ Inherited ?


Selected network profiles Map to

Network profile	VLAN ID	Port
Batik_Profile	4	Port 1

Cancel Delete Save

E-MSM720 HP Controller Kurulum Prosedürü

← → ↻ https://10.10.100.234/centcfg/ap_overview.asp?entity=devgroup&selector=Default%20Group

**E-MSM720**

System name: Batik_720_Controller
Location: Gunesli

HomeLogout

Automated workflows

OverviewVSC bindingsConfigurationGroup managementToolsProvisioning

Discovered APsConfigured APsWireless clientsWireless ratesNeighborhoodLocal mesh neighborhoodLocal mesh linksRTLS

Summary

Controlled APs

Synchronized8
Detected8
Configured8

Network Tree

Controller

- VSCs
 - HP
 - Batik
 - Batik_Misafir
 - Tiffany
 - Tiffany_Misafir
- Controlled APs
 - Default Group
 - CN18DWZ10Z
 - CN18DWZ114
 - CN18DWZ118
 - CN18DWZ119
 - CN18DWZ11Y
 - CN18DWZ11Z
 - CN23DWZ2WV
 - CN23DWZ2X0

Group: Default Group | Discovered APs


Number of access points: 8

Select the action to apply to all listed APs: -- Select an Action -- Apply

Status	Controlled AP name	Serial number	Wireless services	Wireless clients	Diagnostic	Action
🟢	CN18DWZ10Z	CN18DWZ10Z	🟢 🟢	1	Synchronized	Remove
🟢	CN18DWZ114	CN18DWZ114	🟢 🟢	0	Synchronized	Remove
🟢	CN18DWZ118	CN18DWZ118	🟢 🟢	0	Synchronized	Remove
🟢	CN18DWZ119	CN18DWZ119	🟢 🟢	0	Synchronized	Remove
🟢	CN18DWZ11Y	CN18DWZ11Y	🟢 🟢	0	Synchronized	Remove
🟢	CN18DWZ11Z	CN18DWZ11Z	🟢 🟢	0	Synchronized	Remove
🟢	CN23DWZ2WV	CN23DWZ2WV	🟢 🟢	1	Synchronized	Remove
🟢	CN23DWZ2X0	CN23DWZ2X0	🟢 🟢	0	Synchronized	Remove

🟢 = AP Mode 🟡 = Local Mesh Mode 🟢 🟢 = AP/Local Mesh Mode 🔍 = Monitor Mode 📶 = Sensor Mode ❌ = Disabled

← → ↻ https://10.10.100.234/centcfg/vsc_list.asp?entity=allvsc&selector=All

**E-MSM720**

System name: Batik_720_Controller
Location: Gunesli

HomeLogout

Automated workflows

OverviewVSC profilesVSC mappingsWireless clientsUser sessions

Summary

Controlled APs

Synchronized7
Pending1
Detected8
Configured8

Network Tree

Controller

- VSCs
 - HP
 - Batik
 - Batik_Misafir
 - Tiffany
 - Tiffany_Misafir
- Controlled APs
 - Default Group
 - CN18DWZ10Z
 - CN18DWZ114
 - CN18DWZ118
 - CN18DWZ119
 - CN18DWZ11Y
 - CN18DWZ11Z
 - CN23DWZ2WV
 - CN23DWZ2X0

VSC: All | VSC profiles

Name	Ingress		Egress		Encryption			Authentication		
	SSID	VLAN	GRE	VLAN	TKIP	AES	WEP	802.1x	MAC	HTML
🟢 HP (Default)	🔗 HP	-	-	-	-	-	-	-	-	✓
🔗 Batik	🔗 Batik	-	-	-	-	✓	-	-	-	-
🔗 Batik_Misafir	🔗 Batik_Misafir	-	-	-	-	✓	-	-	-	-
🔗 Tiffany	🔗 Tiffany	-	-	-	-	✓	-	-	-	-
🔗 Tiffany_Misafir	🔗 Tiffany_Misafir	-	-	-	-	✓	-	-	-	-

Add New VSC Profile...

🟢 = Access controlled ❌ = SSID Off 🔗 = SSID On 🔗 = SSID On and configured for broadcast

E-MSM720 HP Controller Kurulum Prosedürü

The screenshot shows the E-MSM720 HP Controller web interface. The top navigation bar includes the HP logo, the title "E-MSM720", and the system name "Batik_720_Controller" with location "Gunesli". The main menu has tabs for "Automated workflows", "Overview", "VSC bindings", "Configuration", "Group management", "Tools", and "Provisioning". The "VSC bindings" tab is selected. On the left, the "Network Tree" shows a hierarchy: Controller > VSCs > Controlled APs > Default Group. The main content area displays a table of VSC bindings for the "Default Group".

VSC Name	VSC SSID	Egress network	Dual-radio behavior
HP	HP	n/a	Active on radios 1 and 2
Batik	Batik	Batik_Profile (4)	Active on radios 1 and 2
Batik_Misafir	Batik_Misafir	Batik_Misafir_Profile (5)	Active on radios 1 and 2
Tiffany	Tiffany	Tiffany_Profile (13)	Active on radios 1 and 2
Tiffany_Misafir	Tiffany_Misafir	Tiffany_Misafir_Profile (14)	Active on radios 1 and 2

Below the table is a button labeled "Add New Binding...".

Yukarıda görüldüğü gibi solda Controller altında VSCs kliklendiğinde üstteki menü değişir. Bu menü'de VSC Bindings kliklenerek ilgili VSC ilgili network Profile'ı seçilir.

The screenshot shows the E-MSM720 HP Controller web interface, specifically the "VSC binding" configuration page for the "Default Group". The left sidebar shows the "Network Tree" with "Default Group" selected. The main content area has a form for configuring the VSC binding.

VSC Profile

VSC Profile: Batik

☒ **Egress network**

Network profile: Batik_Profile (4)

Dual-radio behavior

On multiple radio products VSC is active on:

Both radios

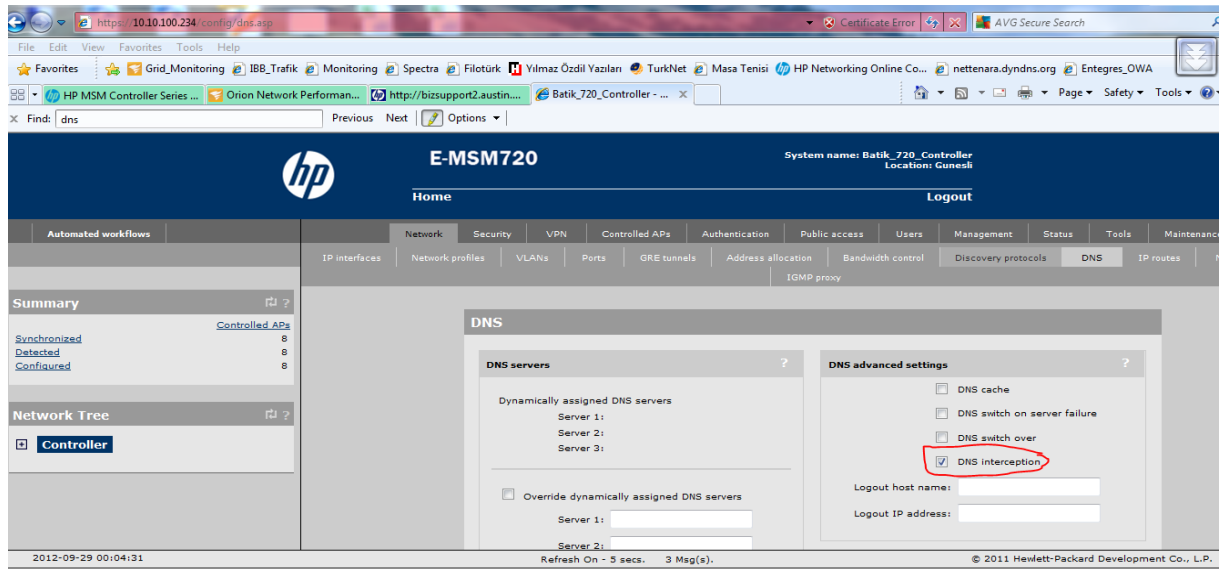
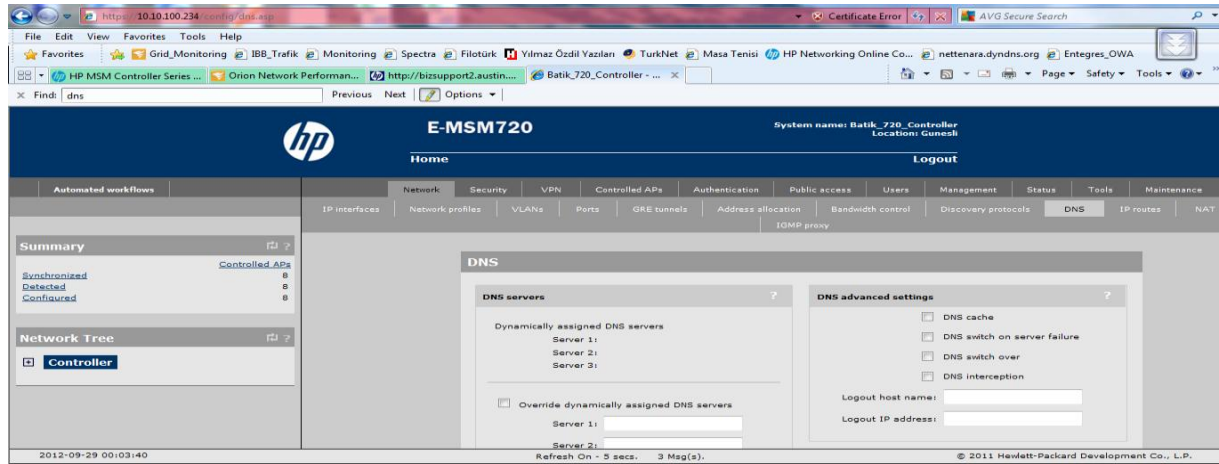
Location-aware group

Group name: Default Group

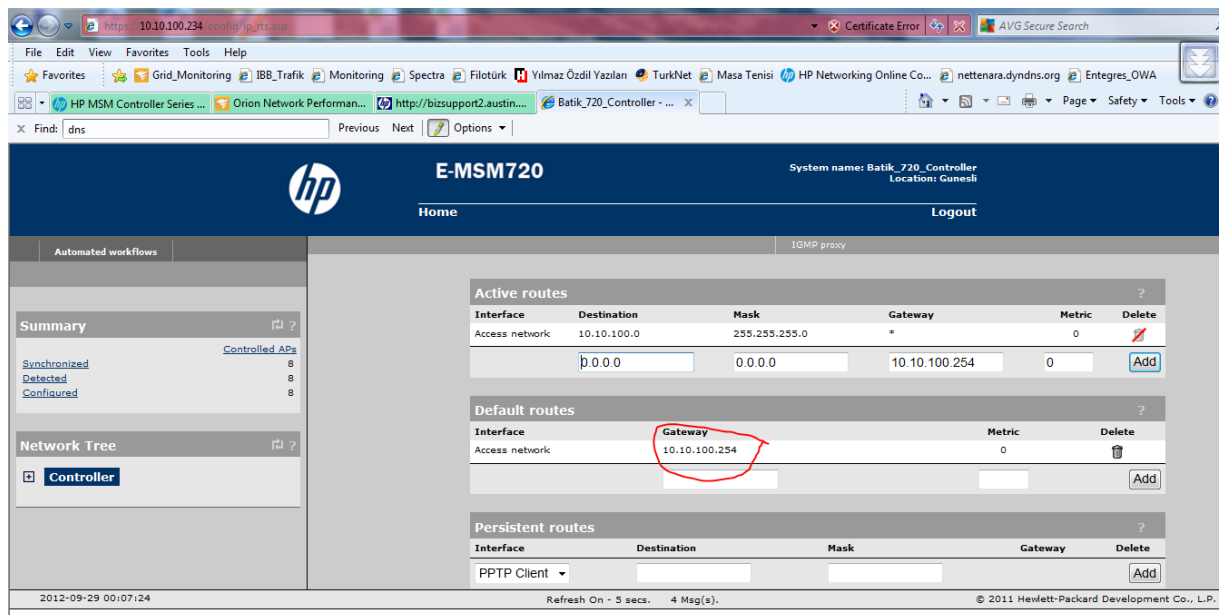
Buttons: Cancel, Delete, Save

Yukarıdaki işlem yapıldıktan sonra AP'ler yayın yapar hale gelir. Bu işlem her SSID Profile için yapılır.

E-MSM720 HP Controller Kurulum Prosedürü



Yukarıdaki DNS ayarı varsayılan olarak seçilidir. Bu seçeneği kaldırmak gerekiyor. Aksi halde her şey normalken DNS çözümlemede sorun yaşanır.



Controller config edildiğinde default'da Gateway girme ekranı getirmiyor. Yukarıda görüldüğü gibi daha sonradan statik olarak girmek gerekiyor.