

نيوكت متي، يضرارتفا لكش ب. NTP عم WLC ةنمازم نم دكأتو تقولا > ةرادلا ىل لقتنا
 NTP: ciscome.pool.ntp.org م داوخ مادختسال اق بس م EWC

| | NTP Index | NTP Server | NTP Status | For All APs |
|---|-----------|------------------------|------------|-------------|
| ✕ | 1 | 0.ciscome.pool.ntp.org | In Sync | false |
| ✕ | 2 | 1.ciscome.pool.ntp.org | Not Tried | false |
| ✕ | 3 | 2.ciscome.pool.ntp.org | Not Tried | false |

ق قحت و ا ه ا ل ص ا و ا ط خ ا ل ا ف ا ش ك ت س ا ت ا و ا د ا > م ك ح ت ل ا ة د ح و ت ا و ا د ا > ة م د ق ت م ت ا ر ا ي خ ى ل ل ق ت ن ا
 DNS م داوخ مادختسال اق بس م ME نيوكت متي، يضرارتفا لكش ب و. DNS م داخ ة فاضا نم
 ة ح ف ص ل ا س ف ن ي ف ذ ف ن م ل ا و HTTP ل ي ك و ن ا و ن ع ل ا خ د ا ن ك م ي. ة ح و ت ف م ل ا

Monitoring
Wireless Settings
Management
Advanced
SNMP
Logging
RF Optimization
Controller Tools
Security Settings
CMX

Cisco Aironet 1542 Series Mobility Express

CONTROLLER TOOLS

Tools

Restart Controller Configuration Management Troubleshooting Files **Troubleshooting Tools** Upload File

DNS Servers 208.67.222.222, 208.67.220.220

DNS Server IP Open DNS 208.67.220.220 208.67.222.222

Apply

HTTP-Proxy IP Address* HTTP-Proxy IP Address

HTTP-Proxy Port* HTTP-Proxy Port

Apply

للقال إلى عدها و لوصولو عطقن مامضنا نم ققحت، لوصولو طاقن > عكلساللا تاداعإل تحت
اهل ع ME لي غشت متي يتلا اهسفن يه هذه لوصولو عطقن نوكت نأ نكمي:

Monitoring
Wireless Settings
WLANs
Access Points
Access Points Groups
WLAN Users
Guest WLANs
DHCP Server
Management
Advanced

Cisco Aironet 1542 Series Mobility Express

ACCESS POINTS ADMINISTRATION

Access Points 1

Global AP Configuration Convert to ME Convert to CAPWAP

Primary Controller Primary Controller and Preferred Master Preferred Master

Refresh

| Sele... | Manage | Type | Location | Name | IP Address | AP Mac | Up Time | AP Model |
|--------------------------|--------|------------|------------------|------------------|---------------|-------------------|---------------------|------------------|
| <input type="checkbox"/> | | ME Capable | default location | APD478.9BF8.7070 | 192.168.1.185 | d4:78:9b:f8:70:70 | 0 days, 00 h 27 ... | AIR-AP1542I-E-K9 |

10 items per page 1 - 1 of 1 items

تاكبشلا > دادعإل إلى ح فرصتلاو لوخدلا لي جس تب مق، DNA تاحاسم عباحس إلى ع
زيمملا زمرلا ضرع إلى ع رقناو عرشابم WLC/Catalyst 9800 لي صوت > عكلساللا

Connect your wireless network

Connect WLC/Catalyst 9800 Directly

Connect WLC/Catalyst 9800 Directly is an easy way to get your wireless network connected to Cisco DNA Spaces. No need to upgrade Wireless LAN Controllers or reconfigure your wireless network.

1 Install Root Certificate

You can install the certificate from WLC CLI
[View root certificate](#)

2 Configure Token in WLC

Configure the token in WLC to establish the connection.

14 Total controller(s)

[View Token](#)

3 Import Controllers into Location Hierarchy

Once the controllers are connected, you can import them into location hierarchy

1 controller(s)
imported to location
hierarchy

[Import Controllers](#)

Need Help?

Access the below links to view detailed help.

[View Configuration Steps](#)

[System Requirements](#)

[Frequently Asked Questions](#)

URL: وزي ممل الزمرلا حسن

زيمملا زمرلاو URL ناووع قصلب مق ، CMX > مدمقتم تاراخي تحت ، ME بيولا هجاو يف
ةقداصلل

لاصتالا سيسات ةلاح يف . طابترالا رابتخا رزىلع رقنا ، لاصتالا سيسات نم ققحتلل
ىلعل طابترالا ىل رزلا ريغت

"عقوم لاسلست يف مكحتل تادحو داريتس اى للاق ت نال او يلات ل لصف ل ي طخت

رماوأل رطس ةهجاو CLI ربع نيوكتل

هت ن مازمو NTP نيوك ت نم ق قحتل

(ME) >show time

```
Time..... Mon Feb 24 23:38:13 2020
Timezone delta..... 0:0
Timezone location..... (GMT +1:00) Amsterdam, Berlin, Rome, Vienna

NTP Servers
NTP Version..... 3
NTP Polling Interval..... 86400
```

| Index | NTP Key | Index | NTP Server | Status | NTP Msg Auth Status |
|-------|---------|-------|------------------------|-----------|---------------------|
| 1 | 0 | | 0.ciscome.pool.ntp.org | In Sync | AUTH DISABLED |
| 2 | 0 | | 1.ciscome.pool.ntp.org | Not Tried | AUTH DISABLED |
| 3 | 0 | | 2.ciscome.pool.ntp.org | Not Tried | AUTH DISABLED |

مدواخ ةفاضل نكمي config time ntp server <index> <ip_address> م ادخت ساب ةديج NTP

DNS مدواخ نيوك ت نم ق قحت

(ME) >show network summary

```
RF-Network Name..... ME
DNS Server IP1..... 192.168.1.1
DNS Server IP2..... 208.67.222.222
DNS Server IP3..... 208.67.220.220
```

مدواخ ةفاضل نكمي config network dns serverify <ip_addr> م ادخت ساب ةديج DNS

لوصول ةطقن مامضنا ديكاتل

(ME) >show ap summary

```
Number of APs..... 1
Global AP User Name..... admin
Global AP Dot1x User Name..... Not Configured
Global AP Dot1x EAP Method..... EAP-FAST
```

* prefix indicates Cisco Internal AP

| AP Name | Slots | AP Model | Ethernet MAC | Location | Country |
|-------------------|---------|------------------|-------------------|------------------|---------|
| IP Address | Clients | DSE Location | | | |
| *APD478.9BF8.7070 | 2 | AIR-AP1542I-E-K9 | d4:78:9b:f8:70:70 | default location | BE |
| 192.168.1.185 | 0 | [0 ,0 ,0] | | | |

تاكبشلا > دادع اى لى حفصتو DNA تافاسم ةباحس اى لى لوصولاب مق ،اقباس انركذ امك

زيمملا زمرلا ضرع ىلع رقن او قرش ابم WLC/Catalyst 9800 لي صوت >ةيكل سلالا

The screenshot shows the Cisco DNA Spaces interface for connecting a wireless network. The page title is "Connect your wireless network". The main heading is "Connect WLC/Catalyst 9800 Directly". Below this, there is a sub-heading "Connect WLC/Catalyst 9800 Directly" and a description: "Connect WLC/Catalyst 9800 Directly is an easy way to get your wireless network connected to Cisco DNA Spaces. No need to upgrade Wireless LAN Controllers or reconfigure your wireless network." The page is divided into three main steps:

- 1 Install Root Certificate**
You can install the certificate from WLC CLI
[View root certificate](#)
- 2 Configure Token in WLC**
Configure the token in WLC to establish the connection.
Total controller(s): 14
[View Token](#)
- 3 Import Controllers into Location Hierarchy**
Once the controllers are connected, you can import them into location hierarchy
1 controller(s) imported to location hierarchy
[Import Controllers](#)

On the right side, there is a "Need Help?" section with the following links:

- [View Configuration Steps](#)
- [System Requirements](#)
- [Frequently Asked Questions](#)

The top of the page shows the Cisco DNA Spaces logo and the status "Active APs 1 of 2000". The browser address bar shows "https://dnaspaces.eu/setup/wirelessnetwork".

URL: و زيمملا زمرلا خسن

← → ↻ 🏠 <https://dnaspaces.eu/setup/wirelessnetwork> ⋮ 🛡️ 🌐 ⭐

☰ Cisco DNA Spaces ACT Active APs 1 of 2000 ? 🗑️

Connect WLC/Catalyst 9800 Directly

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- 1 Install Root Certificate**
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[View root certificate](#)
- 2 Configure Token in WLC**
Configure the token in WLC to establish the connection.

14 Total controller(s) View Token
- 3 Import Controllers into Location Hierarchy**
Once the controllers are connected, you can import them into location hierarchy

1 controller(s) imported to location hierarchy Import Controllers

Need Help?

Access the below links to view detailed help.

- [View Configuration Steps](#)
- [System Requirements](#)
- [Frequently Asked Questions](#)

ضعب ة فاضا تم اذ. "ي لال" قوف ر قناو ك پ اس ح مسا راو جب دو جوم ل را ي ت خ ال ر ز ن م ق ق ح ت هان دا ة م ئ ا ق ل ل ا ي ف ره ط ت ف و س ف ، ل ع ف ل ا ب ع ق ا و م ل

← → ↻ 🏠 <https://dnaspaces.eu/setup/wirelessnetwork> ⋮ 🛡️ 🌐 ⭐

☰ Cisco DNA Spaces ACT

Connect your wireless network

Connect WLC/Catalyst 9800 Directly
Connect WLC/Catalyst 9800 Directly is an easy way to get your wireless network connected to Cisco DNA Spaces. No need to upgrade Wireless LAN Controllers or reconfigure your wireless network.

- 1 Install Root Certificate**
You can install the certificate from WLC CLI
[View root certificate](#)
- 2 Configure Token in WLC**
Configure the token in WLC to establish the connection.

14 Total controller(s)
- 3 Import Controllers into Location Hierarchy**
Once the controllers are connected, you can import them into location hierarchy

No Controllers added

Connect via CMX Tethering
Tethering is an easy way to get your wireless network connected to Cisco DNA Spaces.

Connect via Spaces Connector
Spaces Connector is an easy way to get your wireless network connected to Cisco DNA Spaces.

Import Controllers

Where do you want to import this Controller

Choose a location that you want to import this controller.

🔍 Search Locations

TestLocation ⊙

Next

يُلتل طغضاو هل رواجم لاء برم لاء دحو ،كب ةصاخ لاء مكحت لاء ةدحول IP ناو نع نع شحبا



طقف ءاهن إ قوف رقنا ،ىرخأ عقاوم يا ةفاضإ مت مل هنأل ارظن:



يمره لاء لس لس تال لاء إ حاجن ب ME ءاريت سا مت هنأ لوقت يت لاء ةب لاطم لاء روهظ مت يتيس
عق و مل ل



Controller successfully imported to location hierarchy!

Total controllers added : 1
Total number of APs : 1
Total number of Locations : 0

Would you like to organize your location hierarchy

[Yes, take me to location hierarchy](#)

[No, Continue with Setup](#)

DNA Spaces تازيم لك مادختساب عدبال كنكمي، ةباحس ل اب حاجن ب EWC لي صوت دع ب نألا رخألا.

ةحصلال نم ققحتال

نيوكتال اذه ةحص نم ققحتال ل ارجأ أيلاح دجوي ال.

اهحالص او ااطخال فاشكتسا

اهحالص او نيوكتال ااطخال فاشكتسال اهمادختسا كنكمي يتال تامولعمل مسقلا اذه رفوي.

ةلاقملا هذه ةباتك تقو رفوي الو، ةياغلل ادودحم Mobility Express لىل ع ااطخال حيحصت دع لحي ال DNS و، دوقم NTP مداخ. ةباحس ل اب لاصلال لش ف ب بس لوح تامولعمل نم ريثكال لحيحصت سفن لىل يدؤيس HTTPS رورم ةكرح عنمي يذلا ةيامحل رادجو DNA Spaces لاجم مسال : تاجرمل راظا و ااطخال

(ME) >show cloud-services cmx summary

CMX Service

```
Server ..... https://vasilijeperovic.dnaspaces.eu
IP Address..... 0.0.0.0
Service Status ..... Down
Connectivity..... https: Failed to establish connection
Time remaining for next Retry..... 5 Seconds
```

ةي ناث 30 لك هتي بثت Mobility Express لواحيس ،ةباحس ل لاصت الال ش ف ةلاح في
ل: لي غشت ب مق ةطاس ب ،ءاطخ الال حي حصت ني كمت ل

(ME) >debug nmsp all enable

*emWeb: Jul 01 00:20:52.836: Started http trace logging to file /var/log/debug/wlc-debug-captures.txt

مس ال لب DNS موق ي الو ،دوق فم ال NTP مداخل يرخ ا ةرم اق باطم ءاطخ الال حي حصت جارخا نو كي س
ام ئاد ي صوي ،ببس ال اذه لو .HTTPS رورم ة كرح عن مي ي ذل ا ةي امحل رادجو DNA تاحاسم لاجم
AP. لوجم ذفنم يل ع مزحل طاق الال ءارج اب

نوكم ريغ NTP ببسب ل ش اف لاصت الال لاثم يل ع هاندا ءال طالال نكمي :

(ME) >debug nmsp all enable

Debugging session started on Jul 01 00:20:52.839 for WLC AIR-AP1542I-E-K9 Version :8.10.112.0
SN :FGL2324B02P Hostname ME

*nmspTxServerTask: Jul 01 00:21:05.408: Received Message LOCP_HTTPS_SERVICE_UPDATE

*nmspTxServerTask: Jul 01 00:21:05.408: Received CMX service command CMX_SERVICE_LINK_CHECK,
Buffer Length 1292

*nmspTxServerTask: Jul 01 00:21:05.408: **connection failed. Attempt 1**

*nmspTxServerTask: Jul 01 00:21:05.409: **Configured Domain:**vasilijeperovic.dnaspaces.eu

*nmspTxServerTask: Jul 01 00:21:05.409: Connect to data.dnaspaces.eu/networkdata, Tenent Id
vasilijeperovic

*nmspTxServerTask: Jul 01 00:21:05.409: Keep Alive

Url:https://data.dnaspaces.eu/api/config/v1/nmspconfig/192.168.1.13

*nmspTxServerTask: Jul 01 00:21:05.409: **Initating cmx-cloud connetion. port 443**, token
eyJ0eXAiOiJKV1Q[information-omitted]I8kr crpmRq0g

*nmspTxServerTask: Jul 01 00:21:05.409: [CTX:0] Tx handles in use 0, free 1

*nmspTxServerTask: Jul 01 00:21:05.411: [CTX:1] Tx handles in use 0, free 32

*nmspTxServerTask: Jul 01 00:21:05.411: Http connection URL

https://data.dnaspaces.eu/networkdata?jwttoken=eyJ0eXAiOiJKV1Q[information-omitted]I8kr crpmRq0g

*nmspTxServerTask: Jul 01 00:21:05.411: **Sending Echo Req in start.** Refresh Handle =Yes

*nmspTxServerTask: Jul 01 00:21:05.411: Https Control path handle may be refreshed.

*nmspMxServerTask: Jul 01 00:21:05.413: Async Perform done on 1 messages

حجان الال لاصت الال لاثم :

(ME) >debug nmsp all enable

Debugging session started on Feb 25 01:13:04.913 for WLC AIR-AP1542I-E-K9 Version :8.10.112.0
SN :FGL2324B02P Hostname ME

*emWeb: Feb 25 01:13:10.138: **Init cmx-cloud config: Already initialized**

*emWeb: Feb 25 01:13:10.138: **Starting connection retry timer**

*emWeb: Feb 25 01:13:10.138: Posting Service Request 50 to Tx service

*nmspTxServerTask: Feb 25 01:13:10.212: Received Message LOCP_HTTPS_SERVICE_UPDATE

*nmspTxServerTask: Feb 25 01:13:10.213: Received CMX service command CMX_SERVICE_START, Buffer Length 1292

*nmspTxServerTask: Feb 25 01:13:10.213: **Configured Domain:**vasilijeperovic.dnaspaces.eu

*nmspTxServerTask: Feb 25 01:13:10.213: Connect to data.dnaspaces.eu/networkdata, Tenant Id vasilijeperovic

*nmspTxServerTask: Feb 25 01:13:10.213: Keep Alive

Url:https://data.dnaspaces.eu/api/config/v1/nmspconfig/192.168.1.13

*nmspTxServerTask: Feb 25 01:13:10.213: **Initating cmx-cloud connetion. port 443,** token eyJ0eXAiOiJKV1Q[information-omitted]I8krcrpmRq0g

*nmspTxServerTask: Feb 25 01:13:10.216: [CTX:1] Tx handles in use 0, free 32

*nmspTxServerTask: Feb 25 01:13:10.216: Http connection URL

https://data.dnaspaces.eu/networkdata?jwttoken=eeyJ0eXAiOiJKV1Q[information-omitted]I8krcrpmRq0g

*nmspTxServerTask: Feb 25 01:13:10.216: **Sending Echo Req in start.** Refresh Handle =No

*nmspMxServerTask: Feb 25 01:13:10.217: Async Perform done on 1 messages

*nmspMxServerTask: Feb 25 01:13:10.446: Received: 17 bytes header

*nmspMxServerTask: Feb 25 01:13:10.446: **Rx Header HTTP/1.1 200 OK**

*nmspMxServerTask: Feb 25 01:13:10.446: 00000000: 48 54 54 50 2f 31 2e 31 20 32 30 30 20 4f 4b 0d HTTP/1.1.200.OK.

*nmspMxServerTask: Feb 25 01:13:10.446: 00000010: 0a

.

*nmspMxServerTask: Feb 25 01:13:10.446: **Received Heartbeat response on connection [0]**

*nmspMxServerTask: Feb 25 01:13:10.446: **Stopping connection retry timer**

*nmspMxServerTask: Feb 25 01:13:10.446: **connection succeeded. server IP 63.33.127.190**

ةمچرتل هذه ل و ح

ةلأل تاي نقتل ن م ة و مچ م ادخت ساب دن تسم ل ا اذ ه Cisco ت مچرت
م ل ا ل ا ا ن ا ع مچ ي ف ن ي م د خ ت س م ل ل م ع د ي و ت ح م م ي د ق ت ل ة ي ر ش ب ل و
ا م ك ة ق ي ق د ن و ك ت ن ل ة ل ا ة مچرت ل ض ف ا ن ا ة ظ ح ا ل م ي ج ر ي . ة ص ا خ ل ا م ه ت غ ل ب
Cisco ي ل خ ت . ف ر ت ح م مچرت م ا ه م د ق ي ي ت ل ا ة ي ف ا ر ت ح ا ل ا ة مچرت ل ا ع م ل ا ح ل ا و ه
ي ل ا م ا د ع و ج ر ل ا ب ي ص و ت و ت ا مچرت ل ا ه ذ ه ة ق د ن ع ا ه ت ي ل و ئ س م Cisco
Systems (ر ف و ت م ط ب ا ر ل ا) ي ل ص ا ل ا ي ز ي ل ج ن ا ل ا دن ت س م ل ا