

MSE 및 통합 액세스

(5760/3850/3650/4500s8e)에서 NMSP 문제 해결

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NMSP(Network Mobility Services Protocol) MSE(Mobility Services Engine) WLC(Wireless LAN Controller) .

NMSP . NMSP MSE .NMSP MSE . MSE WLC .

3850(IOS WLC) MSE .

/:

3850 MSE NMSP .

:

MSE: MSE 8.0.110(MR1)

WLC:3.3.5SE

Prime Infrastructure(PI):2.2.1

NMSP SSL(Secure Socket Layer) WLC MSE .MSE MAC WLC . MSE CLI .

[root@robin ~]# cmdshell

cmd > show server-auth-info

:com.aes.server.cli.CmdGetServerAuthInfo

AesLog :50000

AesLog :500

MAC :00:50:56:9c:34:89

SHA1 :e0afb2e2abed5a2f9ffc75f059da6a1bf2bfa0

SHA2 :6ab919e20afc103d025aaf210c2a9dda151af9403ef52e80a35ae1ecb6d3c177

:SSC

(5760/3850/3650) NMSP .

3850 .MSE MAC .: 3850 3.3.5 SE & SHA2 IOS-XE .

:

3850c(config)#username 0050569c3489 aaa NMSP

3850c(config)#aaa NMSP

3850c(config)# 6ab919e20afc103d025aaf210c2a9dda151af9403ef52e80a35ae1ecb6d3c177

3850c(config)#aaa authorization credential-download wcm_loc_serv_cert local

```
3850c#
3850c#conf t
Enter configuration commands, one per line. End with CNTL/Z.
3850c(config)#
3850c(config)#username 0050569c3489 aaa attribute list NMSP
3850c(config)#aaa attribute list NMSP
3850c(config-attr-list)#attribute type password 6ab919e20afc103d025aaf210c2a9d$
3850c(config-attr-list)#$zation credential-download wcm_loc_serv_cert local
3850c(config)#
3850c(config)#exit
3850c#
3850c#
3850c#sh run | i aaa
username 0050569c3489 mac aaa attribute list NMSP
aaa new-model
aaa authentication login local_webauth local
aaa authentication dot1x default group radius
aaa authorization network default group radius
aaa authorization credential-download default local
aaa authorization credential-download wcm_loc_serv_cert local
aaa accounting update periodic 15
aaa attribute list NMSP
aaa attribute list mse_0050569c3489
aaa session-id common
3850c#
```

Prime Infrastructure . > >

3850 "Change MSE Assignment(MSE)" .

WLC(3850) MSE MSE .

The screenshot shows the 'Synchronize Services' page in Prime Infrastructure. A dialog box titled 'Choose MSEs' is open, showing a table with columns: Name, IP Address, CAS, wIPS, MSAP. The row for 'robin' at IP 10.201.236.122 has the 'CAS' checkbox checked. Below the table are 'Synchronize' and 'Cancel' buttons. A progress indicator at the bottom of the dialog says 'Synchronization is taking place. Please wait.' with four dots, the first of which is filled.

Name	IP Address	CAS	wIPS	MSAP
robin	10.201.236.122	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Synchronize Services

- Network Designs
- Controllers
- Event Groups
- Wired Switches
- Third Party Elements
- Service Advertisements

● For MSE versions prior to 7.0.x, modifying the assignment for one service will also modify the assignment for the other service(s).

<input type="checkbox"/>	Name ▲	IP Address	Version	Service	MSE	Sync Status	Message
<input type="checkbox"/>	3850c.rhamby.com	10.201.234.36	03.03.05SE	CAS	robin [NMSP Status]		-
<input type="checkbox"/>	nms-bugs	172.16.174.13	7.0.252.0	-	-	-	-

Total Entries 2
Total Entries 2

WLC, MSE PI GUI .

3850 CLI :

```
3850c#
3850c#show nmsp status
MSE IP Address      Tx Echo Resp  Rx Echo Req   Tx Data       Rx Data
-----
10.201.236.122    9              9              48             14
```

```
3850c#show nmsp subscription de
3850c#show nmsp subscription detail
Mobility Services Subscribed by 10.201.236.122:
Service             Subservice
-----
RSSI                 Mobile Station, Tags
Info                 Mobile Station
Statistics           Mobile Station, Tags
Attachment           Wired Station
Location             Subscription

3850c#
```

```
3850c#show nmsp subscription summary
Mobility Services Subscribed
-----
Server IP           Services
-----
10.201.236.122     RSSI, Info, Statistics, Attachment, Wired Location

3850c#
```

MSE GUI

MSE v8.0 :(https://<MSE_IP>/mseui/)

Dashboard Home Admin

- Dashboard
- General Properties
- Licensing
- Active Sessions
- Trap Destinations
- Advanced Parameters
- Logging
- ACCOUNTS
- Users
- Groups
- STATUS
- Server Events
- Audit Logs
- NMSP Status**
- MAINTENANCE
- Backup
- Restore
- Download Software
- CONTEXT AWARE SERVICE

NMSP Status / 10.201.234.36

Summary

IP Address	10.201.234.36
Target Type	NGWC Switch
NMSP Status	Active
Echo Request Count	27
Echo Response Count	27
Last Activity Time	Jun-06-2015 14:59:47 PM
Last Echo Request Message	Jun-06-2015 14:59:43 PM
Last Echo Response Message	Jun-06-2015 14:59:43 PM
Capable NMSP Services	IPv6_CLIENTS_SUPPORT, RSSI, INFORMATION, STATISTICS, IDS, HANDOVER, APMONITOR, SPECTRUM, ATTACHMENT, LOCATION

Subscribed Services

Service	SubServices
RSSI Service	MOBILE_STATION, TAG
ATTACHMENT Service	MOBILE_STATION_ATTACHMENT
INFORMATION Service	MOBILE_STATION
LOCATION Service	SUBSCRIPTION
STATISTICS Service	MOBILE_STATION, TAG

Messages

Message Type	IN / OUT	Count	Last Activity Time	Bytes
INFORMATION_REQUEST	OUT	2	Jun-06-2015 14:53:13 PM	38
STATISTICS_REQUEST	OUT	4	Jun-06-2015 14:53:13 PM	76
STATISTICS_RESPONSE	IN	4	Jun-06-2015 14:53:13 PM	66
SERVICE_SUBSCRIBE_REQUEST	OUT	1	Jun-06-2015 14:52:59 PM	77
SERVICE_SUBSCRIBE_RESPONSE	IN	1	Jun-06-2015 14:52:59 PM	18
LOCATION_RESPONSE	IN	2	Jun-06-2015 14:53:13 PM	70

<https://10.201.236.122/settings/licensing>

문제 해결:

NMSP :

1) .

2) MSE WLC NTP

:

:

:

3850c#set trace nmsp

3850c# nmsp

[06/03/15 22:28:10.762 UTC a27 10241] **NMSP 0**

[06/03/15 22:28:10.762 UTC a28 10241] sslConnectionInit:SSL_new() conn ssl b3f8a8d0

[06/03/15 22:28:10.762 UTC a29 10241] sslConnectionInit:conn ssl b3f8a8d0, conn

SSL_do_handshake:INIT, SSL :

[06/03/15 22:28:10.762 UTC a2a 10241] SSL = 0x6000; = 0x10;ret = 0x1

[06/03/15 22:28:10.762 UTC a2b 10241] ret_type_string=

[06/03/15 22:28:10.762 UTC a2c 10241] ret_desc_string=

[06/03/15 22:28:10.762 UTC a2d 10241] SSL_state_string= /

[06/03/15 22:28:10.762 UTC a2e 10241] SSL = 0x6000; = 0x2001;ret = 0x1

[06/03/15 22:28:10.762 UTC a2f 10241] ret_type_string=

[06/03/15 22:28:10.762 UTC a30 10241] ret_desc_string=

[06/03/15 22:28:10.762 UTC a31 10241] SSL_state_string= /

[06/03/15 22:28:10.762 UTC a32 10241] SSL = 0x2111; = 0x2002;ret = 0xfffff

[06/03/15 22:28:10.762 UTC a33 10241] ret_type_string=

[06/03/15 22:28:10.762 UTC a34 10241] ret_desc_string=
[06/03/15 22:28:10.762 UTC a35 10241] SSL_state_string=SSLv3 hello B
——????????????????????????????[06/03/15 22:28:10.762 UTC a36 10241] — conn ssl b3f8a8d0
WANT_READ .
[06/03/15 22:28:10.762 UTC a37 10241] sslConnectionInit() ():INIT, SSL :
[06/03/15 22:28:10.768 UTC a38 10241] doSSLRecvLoop: 0 .
[06/03/15 22:28:10.768 UTC a39 10241] sslConnectionInit:conn ssl b3f8a8d0, conn
SSL_do_handshake:INIT, SSL :
[06/03/15 22:28:10.768 UTC a3a 10241] SSL = 0x2111; = 0x2001;ret = 0x1
[06/03/15 22:28:10.768 UTC a3b 10241] ret_type_string=
[06/03/15 22:28:10.768 UTC a3c 10241] ret_desc_string=
[06/03/15 22:28:10.768 UTC a3d 10241] SSL_state_string=SSLv3 hello B
[06/03/15 22:28:10.768 UTC a3e 10241] SSL = 0x2130; = 0x2001;ret = 0x1
[06/03/15 22:28:10.768 UTC a3f 10241] ret_type_string=
[06/03/15 22:28:10.768 UTC a40 10241] ret_desc_string=
[06/03/15 22:28:10.768 UTC a41 10241] SSL_state_string=SSLv3 hello A
[06/03/15 22:28:10.768 UTC a42 10241] SSL = 0x2140; = 0x2001;ret = 0x1
[06/03/15 22:28:10.768 UTC a43 10241] ret_type_string=
[06/03/15 22:28:10.768 UTC a44 10241] ret_desc_string=
[06/03/15 22:28:10.768 UTC a45 10241] SSL_state_string=SSLv3 A
——????????????????????????????[06/03/15 22:28:10.768 UTC a46 10241] SSL = 0x2160; =
0x2001;ret = 0x1
[06/03/15 22:28:10.768 UTC a47 10241] ret_type_string=
[06/03/15 22:28:10.768 UTC a48 10241] ret_desc_string=
[06/03/15 22:28:10.768 UTC a49 10241] SSL_state_string=SSLv3 A
[06/03/15 22:28:10.768 UTC a4a 10241] SSL = 0x2100; = 0x2001;ret = 0x1
[06/03/15 22:28:10.768 UTC a4b 10241] ret_type_string=
[06/03/15 22:28:10.768 UTC a4c 10241] ret_desc_string=
[06/03/15 22:28:10.768 UTC a4d 10241] SSL_state_string=SSLv3
[06/03/15 22:28:10.768 UTC a4e 10241] SSL = 0x2180; = 0x2002;ret = 0xffffffff
[06/03/15 22:28:10.768 UTC a4f 10241] ret_type_string=
[06/03/15 22:28:10.768 UTC a50 10241] ret_desc_string=
[06/03/15 22:28:10.768 UTC a51 10241] SSL_state_string=SSLv3 A
[06/03/15 22:28:10.768 UTC a52 10241] — conn ssl b3f8a8d0 WANT_READ .
[06/03/15 22:28:11.068 UTC a53 10241] doSSLRecvLoop: 0 .
[06/03/15 22:28:11.068 UTC a54 10241] **sslConnectionInit:conn ssl b3f8a8d0, conn**
SSL_do_handshake:INIT, SSL :
[06/03/15 22:28:11.069 UTC a55 10241] conn ssl b3f8a8d0, calling authlist .
——????????????????????????????[06/03/15 22:28:11.070 UTC a56 10241] : conn ssl b3f8a8d0
[06/03/15 22:28:12.070 UTC a57 10241] AuthList
[06/03/15 22:28:12.070 UTC a58 10241] SSL = 0x2182; = 0x4008;ret = 0x22e
[06/03/15 22:28:12.070 UTC a59 10241] ret_type_string=
[06/03/15 22:28:12.070 UTC a5a 10241] ret_desc_string=
[06/03/15 22:28:12.070 UTC a5b 10241] SSL_state_string=SSLv3 C
[06/03/15 22:28:12.070 UTC a5c 10241] SSL = 0x2182; = 0x2002;ret = 0xffffffff
[06/03/15 22:28:12.070 UTC a5d 10241] ret_type_string=
[06/03/15 22:28:12.070 UTC a5e 10241] ret_desc_string=
[06/03/15 22:28:12.070 UTC a5f 10241] SSL_state_string=SSLv3 C
[06/03/15 22:28:12.070 UTC a60 10241] — conn **ssl b3f8a8d0, ssl_err 1 = error:140890B2:SSL**
:SSL3_GET_CLIENT_CERTIFICATE: .
[06/03/15 22:28:12.070 UTC a61 10241] **Nmsp conn ssl b3f8a8d0, conn id 0**

:

[06/06/15 17:47:53.600 UTC 4f2 10205] LocServer 0 NMSP_APP_MEAS_NOTIFY_MSG
[06/06/15 17:56:34.305 UTC 4f3 10205] **NMSP 0**
——????????????????????????????[06/06/15 17:56:34.306 UTC 4f4 10205]
sslConnectionInit:SSL_new() conn ssl 590a6048
[06/06/15 17:56:34.306 UTC 4f5 10205] sslConnectionInit:conn ssl 590a6048
SSL_do_handshake, conn :INIT, SSL :
[06/06/15 17:56:34.306 UTC 4f6 10205] SSL = 0x6000; = 0x10;ret = 0x1
[06/06/15 17:56:34.306 UTC 4f7 10205] ret_type_string=
[06/06/15 17:56:34.306 UTC 4f8 10205] ret_desc_string=
[06/06/15 17:56:34.307 UTC 4f9 10205] SSL_state_string= /
[06/06/15 17:56:34.307 UTC 4fa 10205] SSL = 0x6000; = 0x2001;ret = 0x1
[06/06/15 17:56:34.307 UTC 4fb 10205] ret_type_string=
[06/06/15 17:56:34.307 UTC 4fc 10205] ret_desc_string=
[06/06/15 17:56:34.307 UTC 4fd 10205] SSL_state_string= /
[06/06/15 17:56:34.307 UTC 4fe 10205] SSL = 0x2111; = 0x2002;ret = 0xfffff
[06/06/15 17:56:34.307 UTC 4ff 10205] ret_type_string=
[06/06/15 17:56:34.307 UTC 500 10205] ret_desc_string=
[06/06/15 17:56:34.307 UTC 501 10205] SSL_state_string=SSLv3 hello B
[06/06/15 17:56:34.307 UTC 502 10205] — conn ssl 590a6048 WANT_READ .
[06/06/15 17:56:34.307 UTC 503 10205] sslConnectionInit() ():INIT, SSL :
——????????????????????????????[06/06/15 17:56:34.309 UTC 504 10205] doSSLRecvLoop: 0 .
[06/06/15 17:56:34.309 UTC 505 10205] **sslConnectionInit:conn ssl 590a6048**
SSL_do_handshake, conn :INIT, SSL :
[06/06/15 17:56:34.309 UTC 506 10205] SSL = 0x2111; = 0x2001;ret = 0x1
[06/06/15 17:56:34.309 UTC 507 10205] ret_type_string=
[06/06/15 17:56:34.309 UTC 508 10205] ret_desc_string=
[06/06/15 17:56:34.309 UTC 509 10205] SSL_state_string=SSLv3 hello B
[06/06/15 17:56:34.309 UTC 50a 10205] SSL = 0x2130; = 0x2001;ret = 0x1
[06/06/15 17:56:34.309 UTC 50b 10205] ret_type_string=
[06/06/15 17:56:34.309 UTC 50c 10205] ret_desc_string=
[06/06/15 17:56:34.309 UTC 50d 10205] SSL_state_string=SSLv3 hello A
[06/06/15 17:56:34.310 UTC 50e 10205] SSL = 0x2140; = 0x2001;ret = 0x1
[06/06/15 17:56:34.310 UTC 50f 10205] ret_type_string=
[06/06/15 17:56:34.310 UTC 510 10205] ret_desc_string=
[06/06/15 17:56:34.310 UTC 511 10205] SSL_state_string=SSLv3 A
[06/06/15 17:56:34.310 UTC 512 10205] SSL = 0x2160; = 0x2001;ret = 0x1
[06/06/15 17:56:34.310 UTC 513 10205] ret_type_string=
——????????????????????????????[06/06/15 17:56:34.310 UTC 514 10205]
ret_desc_string=unknown
[06/06/15 17:56:34.310 UTC 515 10205] SSL_state_string=SSLv3 A
[06/06/15 17:56:34.310 UTC 516 10205] SSL = 0x2100; = 0x2001;ret = 0x1
[06/06/15 17:56:34.310 UTC 517 10205] ret_type_string=
[06/06/15 17:56:34.310 UTC 518 10205] ret_desc_string=
[06/06/15 17:56:34.310 UTC 519 10205] SSL_state_string=SSLv3
[06/06/15 17:56:34.310 UTC 51a 10205] SSL = 0x2180; = 0x2002;ret = 0xfffff
[06/06/15 17:56:34.310 UTC 51b 10205] ret_type_string=
[06/06/15 17:56:34.310 UTC 51c 10205] ret_desc_string=
[06/06/15 17:56:34.310 UTC 51d 10205] SSL_state_string=SSLv3 A
[06/06/15 17:56:34.310 UTC 51e 10205] — conn ssl 590a6048 WANT_READ .
[06/06/15 17:56:34.610 UTC 51f 10205] doSSLRecvLoop: 0 .
[06/06/15 17:56:34.610 UTC 520 10205] sslConnectionInit:conn ssl 590a6048
SSL_do_handshake, conn :INIT, SSL :
[06/06/15 17:56:34.616 UTC 521 10205] conn ssl 590a6048 . authlist.

[06/06/15 17:56:34.622 UTC 522 10205] Authlist conn ssl 590a6048
????????????????????[06/06/15 17:56:35.616 UTC 523 10205] AuthList
[06/06/15 17:56:35.616 UTC 524 10205] SSL = 0x2180; = 0x2001;ret = 0x1
[06/06/15 17:56:35.616 UTC 525 10205] ret_type_string=
[06/06/15 17:56:35.616 UTC 526 10205] ret_desc_string=
[06/06/15 17:56:35.616 UTC 527 10205] SSL_state_string=SSLv3 A
[06/06/15 17:56:35.633 UTC 528 10205] SSL = 0x2190; = 0x2001;ret = 0x1
[06/06/15 17:56:35.633 UTC 529 10205] ret_type_string=
[06/06/15 17:56:35.633 UTC 52a 10205] ret_desc_string=
[06/06/15 17:56:35.633 UTC 52b 10205] SSL_state_string=SSLv3 A
[06/06/15 17:56:35.635 UTC 52c 10205] SSL = 0x21a0; = 0x2001;ret = 0x1
[06/06/15 17:56:35.636 UTC 52d 10205] ret_type_string=
[06/06/15 17:56:35.636 UTC 52e 10205] ret_desc_string=
[06/06/15 17:56:35.636 UTC 52f 10205] SSL_state_string=SSLv3 A
[06/06/15 17:56:35.636 UTC 530 10205] SSL = 0x21c0; = 0x2001;ret = 0x1
[06/06/15 17:56:35.636 UTC 531 10205] ret_type_string=
[06/06/15 17:56:35.636 UTC 532 10205] ret_desc_string=
——????????????????????[06/06/15 17:56:35.636 UTC 533 10205]
SSL_state_string=SSLv3 A
[06/06/15 17:56:35.636 UTC 534 10205] SSL = 0x21d0; = 0x2001;ret = 0x1
[06/06/15 17:56:35.636 UTC 535 10205] ret_type_string=
[06/06/15 17:56:35.636 UTC 536 10205] ret_desc_string=
[06/06/15 17:56:35.636 UTC 537 10205] SSL_state_string=SSLv3 A
[06/06/15 17:56:35.636 UTC 538 10205] SSL = 0x21e0; = 0x2001;ret = 0x1
[06/06/15 17:56:35.636 UTC 539 10205] ret_type_string=
[06/06/15 17:56:35.636 UTC 53a 10205] ret_desc_string=
[06/06/15 17:56:35.636 UTC 53b 10205] SSL_state_string=SSLv3 A
[06/06/15 17:56:35.637 UTC 53c 10205] SSL = 0x2100; = 0x2001;ret = 0x1
[06/06/15 17:56:35.637 UTC 53d 10205] ret_type_string=
[06/06/15 17:56:35.637 UTC 53e 10205] ret_desc_string=
[06/06/15 17:56:35.637 UTC 53f 10205] SSL_state_string=SSLv3
[06/06/15 17:56:35.637 UTC 540 10205] SSL = 0x3; = 0x20;ret = 0x1
[06/06/15 17:56:35.637 UTC 541 10205] ret_type_string=
[06/06/15 17:56:35.637 UTC 542 10205] ret_desc_string=
[06/06/15 17:56:35.637 UTC 543 10205] SSL_state_string=SSL .
[06/06/15 17:56:35.637 UTC 544 10205] SSL = 0x3; = 0x2002;ret = 0x1
——????????????????????[06/06/15 17:56:35.637 UTC 545 10205]
ret_type_string=unknown
[06/06/15 17:56:35.637 UTC 546 10205] ret_desc_string=
[06/06/15 17:56:35.637 UTC 547 10205] SSL_state_string=SSL .
[06/06/15 17:56:35.637 UTC 548 10205] SSL_do_handshake() conn ssl 590a6048 .
[06/06/15 17:56:35.637 UTC 549 10205] NMSP !conn 0