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简介

本文为基本问题提供故障排除程序以Cisco无线LAN控制器模块(WLCM)。

先决条件

要求

Cisco 建议您了解以下主题：

- 了解轻量接入点协议 (LWAPP)。
- 基础知识如何配置WLCM模块参加Cisco Unified无线网络。**注意：**如果是新用户和未工作在WLCM，参考[Cisco WLAN控制器网络模块功能指南](#)。

使用的组件

本文档中的信息基于以下软件和硬件版本：

- 该的思科2811集成多业务路由器(ISR)运行运行版本3.2.116.21的版本12.4(11)T以WLCM
- 思科1030和思科1232 AG轻量AP (拉普)
- Cisco 802.11a/b/g运行版本2.5的无线局域网(WLAN)客户端适配器
- 该的思科安全访问控制服务器(ACS)运行版本3.2

注意：列出的组件此处是使用写作本文仅的设备。关于支持WLCM和拉普WLCM支持ISR的完整列

表的信息在本文的[Troubleshoot部分](#)被提供。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

[规则](#)

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

[背景信息](#)

Cisco WLCM设计提供中小型企业(SMB)和企业分支机构客户802.11无线网络解决方案为Cisco 2800和Cisco 3800系列ISR和Cisco 3700系列路由器。

Cisco WLCM使Cisco ISR和Cisco 3700系列路由器管理六个WLAN访问点(AP)，并且简化WLAN的部署和管理。使用操作系统的安全(OSS)，操作系统管理所有数据客户端，通信和系统管理功能，执行高级无线电资源管理(RRM)功能，管理全系统的移动性策略使用OSS框架，并且协调所有安全功能。

思科WLCM与Cisco Aironet拉普，思科无线控制系统(WCS)和Cisco Wireless Location Appliance一道工作支持目标关键无线数据、语音和视频应用。

[故障排除](#)

此部分与WLCM讨论基本问题的故障排除程序。

[ISR不认可WLCM](#)

这些ISR平台仅支持WLCM：

- Cisco 3725 和 3745 路由器
- Cisco 2811、2821 和 2851 ISR
- Cisco 3825 和 3845 ISR

如果任何其他ISR比在此列表指定的那个出现，则WLCM没有检测。保证您使用正确硬件。

注意：网络模块插槽仅支持WLCM。Cisco 2821 和 Cisco 2851 ISR 中的 EVM 插槽不支持此模块。

注意：您只能安装在单个路由器机箱的一思科WLCM。

也有WLCM的一些最低软件需求。

ISR必须使用Cisco IOS软件版本12.4(2)XA1 (路由器软件)或以后ISR的能认可WLCM。

[能否升级在WLCM的闪存？](#)

思科WLCM装备并且从一已安装256 MB CompactFlash闪存卡启动。CompactFlash闪存卡包含启动加载器、Linux内核，思科WLCM和AP可执行文件和思科WLCM配置。

在思科WLCM的CompactFlash闪存卡不现场可换的。

WLCM是否是可热交换的？

WLCM不是可热交换的在所有ISR平台。在线插拔控制器Cisco 3745路由器和思科3845 ISR仅支持模块。

拉普在WLCM支持

支持所有已启用LWAPP Cisco Aironet AP，包括Cisco Aironet 1000，1100，和1200系列。不支持HWIC-AP接口卡。

无法访问在WLCM的快速以太网

这是预料之中的行为。不支持思科WLCM的面板的外部快速以太网端口。NM-WLC (WLCM模块)只有一个快速以太网端口内部地连接对主机路由器和NM面板的外部快速以太网端口是禁用和不可用的。

检查WLCM的状态

发出**show version**命令从ISR为了检查WLCM是否由路由器认可和正确地安装。

```
2800-ISR-TSWEB#show versionCisco IOS Software, 2800 Software (C2800NM-ADVSECURITYK9-M), Version 12.4(11)T, RELEASE SOFTWARE (fc2)Technical Support: http://www.cisco.com/techsupportCopyright (c) 1986-2006 by Cisco Systems, Inc.Compiled Sat 18-Nov-06 17:16 by prod_rel_teamROM: System Bootstrap, Version 12.4(1r) [hqluong 1r], RELEASE SOFTWARE (fc1)2800-ISR-TSWEB uptime is 50 minutesSystem returned to ROM by power-onSystem image file is "flash:c2800nm-advsecurityk9-mz.124-11.T.bin"
This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately.A summary of U.S. laws governing Cisco cryptographic products may be found at: http://www.cisco.com/wwl/export/crypto/tool/stqrg.html
If you require further assistance please contact us by sending email to export@cisco.com.
Cisco 2811 (revision 53.50) with 249856K/12288K bytes of memory.
Processor board ID FTX1014A34X2
FastEthernet interfaces
1 terminal line
1 Virtual Private Network (VPN) Module
1 Cisco Wireless LAN Controller(s)
DRAM configuration is 64 bits wide with parity enabled.
239K bytes of non-volatile configuration memory.
62720K bytes of ATA CompactFlash (Read/Write)
Configuration register is 0x2102
```

发出**status**命令**service-module wlan-controller**的插槽/端口为了查找WLCM的状态。

```
2800-ISR-TSWEB#service-module wlan-controller 1/0 statusService Module is Cisco wlan-controller1/0Service Module supports session via TTY line 66Service Module is in Steady stateGetting status from the Service Module, please wait..Cisco WLAN Controller 3.2.116.21
```

您能也发出**statistics**命令**service-module**的**wlan-controller1/0**为了查找WLCM的模块重置统计信息。

```
2800-ISR-TSWEB#service-module wlan-controller 1/0 statisticsModule Reset Statistics: CLI reset count = 0
CLI reload count = 0 Registration request timeout reset count = 0 Error recovery timeout reset count = 0
Module registration count = 4
```

有时，您看到此错误：

```
Router#service-module wlan-controller 4/0 statusService Module is Cisco wlan-controller4/0Service Module supports session via TTY line 258Service Module is trying to recover from errorService Module status is not availableOr this:Router#service-module wlan-controller 1/0 statusService Module is Cisco wlan-controller1/0Service Module supports session via TTY line 66Service Module is failedService Module
```

status is not available

出现此错误的原因也许是硬件问题。开TAC案例进一步排除故障此问题。为了开TAC案例，您需要有与思科的一个有效合同。参考的[技术支持](#)为了与Cisco TAC联系。

发出显示sysinfo命令为了获得关于WLCM的更多信息。

```
(Cisco Controller) >show sysinfoManufacturer's Name..... Cisco Systems,
IncProduct Name..... Cisco ControllerProduct
Version..... 3.2.116.21RTOS Version.....
3.2.116.21Bootloader Version..... 3.2.116.21Build
Type..... DATA + WPSSystem Name.....
WLCMSystem Location.....System
Contact.....System ObjectID.....
1.3.6.1.4.1.14179.1.1.4.5IP Address..... 60.0.0.2System Up
Time..... 0 days 0 hrs 39 mins 18 secsConfigured
Country..... United StatesState of 802.11b Network.....
EnabledState of 802.11a Network..... EnabledNumber of
WLANs..... 13rd Party Access Point Support..... DisabledNumber
of Active Clients..... 0
```

[我们如何做CLI配置向导的更正](#)

当您第一次配置WLCM (或在重置对默认以后)使用CLI配置向导，-密钥用于为了做更正到配置。示例如下：

这里，而不是输入admin，用户输入adminn更正它。在下提示符，回车-，然后请按回车。系统回到上一个提示符。

```
(Cisco Controller>Welcome to the Cisco Wizard Configuration ToolUse the '-' character to backupSystem
Name [Cisco_e8:38:c0]: adminn!--- The user enters adminn instead of admin.Enter Administrative User Name
(24 characters max): -!--- In order to make the corrections, the user enters -.System Name
[Cisco_e8:38:c0] (31 characters max): admin!--- The user is again prompted for the system name and !---
then enters the correct system name admin.
```

[LAP不向ISR WLCM登记- WLCM带有不正确证书](#)

NM-AIR-WLC6-K9和NM-AIR-WLC6-K9= WLCMs装备不正确证书。这造成WLCNM不由思科/Airespace AP验证。WLCM被发运在二月1，2006年和三月22之间，2006受影响。制造过程失败没有复制正确证书到WLCNM设备。不正确证书创建RSA密钥不匹配，造成基于LWAPP的AP发生故障加入/关联/寄存器对WLCNM。

有关此问题的示例，请参阅 [Field Notice : FN - 62379 -无线局域网控制器网络模块不用思科/Airespace接入点验证-硬件升级](#)关于此的更多信息。此问题信息通告(Field Notice)包含应急方案、以及受影响的网络模块部件号和序列号。

[LAP不向WLCM登记-没设置的系统时间](#)

WLCM必须配置与系统时间和日期。它可能或者手工执行，或者WLCM可以配置使用Ntp server。如果时间与日期没有设置，拉普不向WLCM登记。在CLI向导中，提示您输入系统时间和定日期。如果不输入日期和时间，您看到此警告消息：

```
Warning! No AP will come up unless the time is setPlease see documentation for more details.
```

发出从WLCM CLI的此命令为了手工配置时间：

```
Warning! No AP will come up unless the time is setPlease see documentation for more details.
```

发出此命令是否希望WLCM使用Ntp server：

Warning! No AP will come up unless the time is setPlease see documentation for more details.

[WLCM的密码恢复](#)

丢失 WLCM 的登录口令时，进入 WLCM 的唯一方法是将 WLCM 重置回默认设置。这也意味着将重置 WLCM 中的整个配置，并且必须从头开始配置。

参考[重置WLCM对默认设置](#)关于如何重置WLCM的信息到出厂默认设置。

[思科WLCM LED](#)

此表列出思科WLCM LED和含义：

LED	含义
CF	CompactFlash闪存卡是活跃的。
EN	模块通过自检并且对路由器是可用的。
PWR	电源对控制器模块是可用的。

[升级控制器固件发生故障](#)

在升级进程中，您能遇到影响升级进程的一些错误。此部分说明什么错误消息平均值和如何排除错误和升级控制器。

- **代码文件传输从TFTP server的failed-No回复**？如果TFTP server不是活跃的，您收到此错误消息。请检查以确定是否在服务器上启用了 TFTP 服务。
- **Code file transfer failed - Error from server:找不到文件。中止转移**？如果操作系统文件不是存在TFTP server的默认目录，您收到此错误消息。为了排除此错误，请复制镜像文件对在TFTP server的默认目录。
- **TFTP失败，当存储在闪存!时**？当有与TFTP server时的一问题您收到此错误。一些 TFTP 服务器对于可以传输的文件大小有限制。请使用一个不同的TFTP server工具。有是可行的许多自由TFTP server工具。Cisco推荐使用Tftpd32版本2.0 TFTP server。参考的[Tftpd32](#)为了下载此TFTP server。
- **安装分区毁坏或镜像是否是损坏的**？如果不成功，在尝试升级软件后，有可能性您的镜像损坏的。请与协助的[思科技术支持联系](#)。

参考[升级Cisco WLAN控制器模块软件](#)关于如何升级在WLCM的固件的更多信息。

[不能启用CDP](#)

用户不能启用在3750个ISR安装的WLCM的思科设备发现协议(CDP)。将显示以下消息：

Warning! No AP will come up unless the time is setPlease see documentation for more details.

用户发出**cdp enable命令的设置**为了启用CDP，但是仍然看到此同样消息：

Warning! No AP will come up unless the time is setPlease see documentation for more details.

这是由于Cisco Bug ID CSCsg67615。虽然3750G集成的无线局域网控制器不支持CDP，CDP CLI命令为此控制器是可用的。这在4.0.206.0被解决。

[请使用IP辅助工具地址和ip-forward协议命令注册有WLCM的拉普](#)

使用WLCM，发现WLCM通过IP子网广播LAP是难的。这是由于WLCM如何在ISR的底板集成，并且LAP如何典型地在(也是一好建议)的一个不同的IP子网。如果要进行IP子网广播发现与成功，请发出ip helper-address和ip forward-protocol udp 12223命令。

一般来说，这些命令目的将传送或中继所有潜在的IP广播帧。此中继和处理它对WLC管理接口应该是足够的确保WLC响应回到LAP。

必须给ip helper-address命令在LAP连接的接口下，并且ip helper-address命令必须指向WLC的管理接口。

Warning! No AP will come up unless the time is setPlease see documentation for more details.

ip forward-protocol命令是全局配置命令。

Warning! No AP will come up unless the time is setPlease see documentation for more details.

WLCM故障排除命令

此部分提供您能使用为了排除故障WLCM配置的调试指令。

调试指令验证LAP注册用控制器：

请使用这些调试指令为了验证，如果拉普向WLCM登记：

- 调试MAC地址<AP-MAC-address xx:xx : xx : xx : xx : xx> ? 配置LAP的MAC地址调试。
- 调试lwapp事件enable (event) ? 配置LWAPP事件和错误消息调试。
- 调试下午pki enable (event) ? 配置安全策略管理器模块调试。

这是示例输出debug lwapp events enable命令，当LAP向WLCM登记时：

```
Mon Mar 12 16:23:39 2007: Received LWAPP DISCOVERY REQUEST from AP 00:0b:85:51:5a:e0 to 00:15:2c:e8:38:c0
on port '1' Mon Mar 12 16:23:39 2007: Successful transmission of LWAPP Discovery-Response to AP
00:0b:85:51:5a:e0 on Port 1 Mon Mar 12 16:23:52 2007: Received LWAPP JOIN REQUEST from AP
00:0b:85:51:5a:e0 to 00:15:2c:e8:38:c0 on port '1' Mon Mar 12 16:23:52 2007: LWAPP Join-Request MTU path
from AP 00:0b:85:51:5a:e0 is 1500, remote debug mode is 0 Mon Mar 12 16:23:52 2007: Successfully added
NPU Entry for AP 00:0b:85:51:5a:e0 (index 49)Switch IP: 60.0.0.3, Switch Port: 12223, intIfNum 1, vlanId
0 AP IP: 10.77.244.221, AP Port: 5550, next hop MAC: 00:17:94:06:62:98 Mon Mar 12 16:23:52 2007:
Successfully transmission of LWAPP Join-Reply to AP 00:0b:85:51:5a:e0 Mon Mar 12 16:23:52 2007: Register
LWAPP event for AP 00:0b:85:51:5a:e0 slot 0 Mon Mar 12 16:23:52 2007: Register LWAPP event for AP
00:0b:85:51:5a:e0 slot 1 Mon Mar 12 16:23:53 2007: Received LWAPP CONFIGURE REQUEST from AP
00:0b:85:51:5a:e0 to 00:15:2c:e8:38:c0 Mon Mar 12 16:23:53 2007: Updating IP info for AP
00:0b:85:51:5a:e0 -- static 0, 10.77.244.221/255.255.255.224, gtw 10.77.244.220 Mon Mar 12 16:23:53 2007:
Updating IP 10.77.244.221 ==> 10.77.244.221 for AP 00:0b:85:51:5a:e0 Mon Mar 12 16:23:53 2007:
spamVerifyRegDomain RegDomain set for slot 0 code 0 regstring -A regDfromCb -A Mon Mar 12 16:23:53 2007:
spamVerifyRegDomain RegDomain set for slot 1 code 0 regstring -A regDfromCb -A Mon Mar 12 16:23:53 2007:
spamEncodeDomainSecretPayload:Send domain secret WLCM-
Mobility<bc,73,45,ec,a2,c8,55,ef,14,1e,5d,99,75,f2,f9,63,af,74,d9,02> to AP 00:0b:85:51:5a:e0 Mon Mar 12
16:23:53 2007: Successfully transmission of LWAPP Config-Message to AP 00:0b:85:51:5a:e0 Mon Mar 12
16:23:53 2007: Running spamEncodeCreateVapPayload for SSID 'WLCM-TSWEB' Mon Mar 12 16:23:53 2007: Running
spamEncodeCreateVapPayload for SSID 'WLCM-TSWEB' Mon Mar 12 16:23:53 2007: AP 00:0b:85:51:5a:e0
associated. Last AP failure was due to AP reset Mon Mar 12 16:23:53 2007: Received LWAPP
CHANGE_STATE_EVENT from AP 00:0b:85:51:5a:e0 Mon Mar 12 16:23:53 2007: Successfully transmission of LWAPP
Change-State-Event Response to AP 00:0b:85:51:5a:e0 Mon Mar 12 16:23:53 2007: Received LWAPP Up event for
AP 00:0b:85:51:5a:e0 slot 0! Mon Mar 12 16:23:53 2007: Received LWAPP CONFIGURE COMMAND RES from AP
00:0b:85:51:5a:e0 Mon Mar 12 16:23:53 2007: Received LWAPP CHANGE_STATE_EVENT from AP 00:0b:85:51:5a:e0
Mon Mar 12 16:23:53 2007: Successfully transmission of LWAPP Change-State-Event Response to AP
00:0b:85:51:5a:e0 Mon Mar 12 16:23:53 2007: Received LWAPP Up event for AP 00:0b:85:51:5a:e0 slot 1! Mon
Mar 12 16:23:54 2007: Received LWAPP CONFIGURE COMMAND RES from AP 00:0b:85:51:5a:e0 Mon Mar 12 16:23:54
2007: Received LWAPP CONFIGURE COMMAND RES from AP 00:0b:85:51:5a:e0 Mon Mar 12 16:23:54 2007: Received
LWAPP CONFIGURE COMMAND RES from AP 00:0b:85:51:5a:e0 Mon Mar 12 16:23:54 2007: Received LWAPP CONFIGURE
```

COMMAND RES from AP 00:0b:85:51:5a:e0 Mon Mar 12 16:23:54 2007: Received LWAPP CONFIGURE COMMAND RES from AP 00:0b:85:51:5a:e0 Mon Mar 12 16:23:54 2007: Received LWAPP CONFIGURE COMMAND RES from AP 00:0b:85:51:5a:e0

这是enable命令调试下午的pki的示例输出，当LAP向WLCM登记时：

```
Mon Mar 12 16:30:40 2007: sshpmGetIssuerHandles: locking ca cert table Mon Mar 12 16:30:40 2007:
sshpmGetIssuerHandles: calling x509_alloc() for user cert Mon Mar 12 16:30:40 2007:
sshpmGetIssuerHandles: calling x509_decode() Mon Mar 12 16:30:40 2007: sshpmGetIssuerHandles: <subject>
C=US, ST=California, L=San Jose, O=airespace Inc, CN=000b85515ae0, MAILTO=support@airespace.com Mon Mar
12 16:30:40 2007: sshpmGetIssuerHandles: <issuer> C=US, ST=California, L=San Jose, O=airespace Inc,
OU=none, CN=ca, MAILTO=support@airespace.com Mon Mar 12 16:30:40 2007: sshpmGetIssuerHandles: Mac Address
in subject is 00:0b:85:51:5a:e0 Mon Mar 12 16:30:40 2007: sshpmGetIssuerHandles: Cert is issued by
Airespace Inc. Mon Mar 12 16:30:40 2007: sshpmGetCID: called to evaluate <bsnDefaultCaCert> Mon Mar 12
16:30:40 2007: sshpmGetCID: comparing to row 0, CA cert >bsnOldDefaultCaCert< Mon Mar 12 16:30:40 2007:
sshpmGetCID: comparing to row 1, CA cert >bsnDefaultRootCaCert< Mon Mar 12 16:30:40 2007: sshpmGetCID:
comparing to row 2, CA cert >bsnDefaultCaCert< Mon Mar 12 16:30:40 2007: sshpmGetCertFromCID: called to
get cert for CID 2816f436 Mon Mar 12 16:30:40 2007: sshpmGetCertFromCID: comparing to row 0, certname
>bsnOldDefaultCaCert< Mon Mar 12 16:30:40 2007: sshpmGetCertFromCID: comparing to row 1, certname
>bsnDefaultRootCaCert< Mon Mar 12 16:30:40 2007: sshpmGetCertFromCID: comparing to row 2, certname
>bsnDefaultCaCert< Mon Mar 12 16:30:40 2007: ssphmUserCertVerify: calling x509_decode() Mon Mar 12
16:30:40 2007: ssphmUserCertVerify: failed to verify AP cert >bsnDefaultCaCert< Mon Mar 12 16:30:40 2007:
sshpmGetCID: called to evaluate <bsnOldDefaultCaCert> Mon Mar 12 16:30:40 2007: sshpmGetCID: comparing to
row 0, CA cert >bsnOldDefaultCaCert< Mon Mar 12 16:30:40 2007: sshpmGetCertFromCID: called to get cert
for CID 226b9636 Mon Mar 12 16:30:40 2007: sshpmGetCertFromCID: comparing to row 0, certname
>bsnOldDefaultCaCert< Mon Mar 12 16:30:40 2007: ssphmUserCertVerify: calling x509_decode() Mon Mar 12
16:30:40 2007: ssphmUserCertVerify: user cert verified using >bsnOldDefaultCaCert< Mon Mar 12 16:30:40
2007: sshpmGetIssuerHandles: ValidityString (current): 2007/03/12/16:30:40 Mon Mar 12 16:30:40 2007:
sshpmGetIssuerHandles: AP sw version is 0x3027415, send a Cisco cert to AP. Mon Mar 12 16:30:40 2007:
sshpmGetCID: called to evaluate <cscocDefaultIdCert> Mon Mar 12 16:30:40 2007: sshpmGetCID: comparing to
row 0, CA cert >bsnOldDefaultCaCert< Mon Mar 12 16:30:40 2007: sshpmGetCID: comparing to row 1, CA cert
>bsnDefaultRootCaCert< Mon Mar 12 16:30:40 2007: sshpmGetCID: comparing to row 2, CA cert
>bsnDefaultCaCert< Mon Mar 12 16:30:40 2007: sshpmGetCID: comparing to row 3, CA cert
>bsnDefaultBuildCert< Mon Mar 12 16:30:40 2007: sshpmGetCID: comparing to row 4, CA cert
>cscocDefaultNewRootCaCert< Mon Mar 12 16:30:40 2007: sshpmGetCID: comparing to row 5, CA cert
>cscocDefaultMfgCaCert< Mon Mar 12 16:30:40 2007: sshpmGetCID: comparing to row 0, ID cert
>bsnOldDefaultIdCert< Mon Mar 12 16:30:40 2007: sshpmGetCID: comparing to row 1, ID cert
>bsnDefaultIdCert< Mon Mar 12 16:30:40 2007: sshpmGetCID: comparing to row 2, ID cert >cscocDefaultIdCert<
Mon Mar 12 16:30:40 2007: sshpmGetCertFromHandle: calling sshpmGetCertFromCID() with CID 0x15b4c76e Mon
Mar 12 16:30:40 2007: sshpmGetCertFromCID: called to get cert for CID 15b4c76e Mon Mar 12 16:30:40 2007:
sshpmGetCertFromCID: comparing to row 0, certname >bsnOldDefaultCaCert< Mon Mar 12 16:30:40 2007:
sshpmGetCertFromCID: comparing to row 1, certname >bsnDefaultRootCaCert< Mon Mar 12 16:30:40 2007:
sshpmGetCertFromCID: comparing to row 2, certname >bsnDefaultCaCert< Mon Mar 12 16:30:40 2007:
sshpmGetCertFromCID: comparing to row 3, certname >bsnDefaultBuildCert< Mon Mar 12 16:30:40 2007:
sshpmGetCertFromCID: comparing to row 4, certname >cscocDefaultNewRootCaCert< Mon Mar 12 16:30:40 2007:
sshpmGetCertFromCID: comparing to row 5, certname >cscocDefaultMfgCaCert< Mon Mar 12 16:30:40 2007:
sshpmGetCertFromCID: comparing to row 0, certname >bsnOldDefaultIdCert< Mon Mar 12 16:30:44 2007:
sshpmGetCertFromCID: comparing to row 1, certname >bsnDefaultIdCert< Mon Mar 12 16:30:44 2007:
sshpmGetCertFromCID: comparing to row 2, certname >cscocDefaultIdCert< Mon Mar 12 16:30:44 2007:
ssphmPublicKeyEncrypt: called to encrypt 16 bytes Mon Mar 12 16:30:44 2007: ssphmPublicKeyEncrypt:
successfully encrypted, out is 192 bytes Mon Mar 12 16:30:44 2007: sshpmPrivateKeyEncrypt: called to
encrypt 196 bytes Mon Mar 12 16:30:44 2007: sshpmGetOpensslPrivateKeyFromCID: called to get key for CID
15b4c76e Mon Mar 12 16:30:44 2007: sshpmGetOpensslPrivateKeyFromCID: comparing to row 0, certname
>bsnOldDefaultIdCert< Mon Mar 12 16:30:44 2007: sshpmGetOpensslPrivateKeyFromCID: comparing to row 1,
certname >bsnDefaultIdCert< Mon Mar 12 16:30:44 2007: sshpmGetOpensslPrivateKeyFromCID: comparing to row
2, certname >cscocDefaultIdCert< Mon Mar 12 16:30:44 2007: sshpmGetOpensslPrivateKeyFromCID: match in row
2 Mon Mar 12 16:30:44 2007: sshpmPrivateKeyEncrypt: calling RSA_private_encrypt with 196 bytes Mon Mar 12
16:30:44 2007: sshpmPrivateKeyEncrypt: RSA_private_encrypt returned 256 Mon Mar 12 16:30:44 2007:
sshpmPrivateKeyEncrypt: encrypted bytes: 256
```

调试指令验证Web验证：

如果Web验证在WLCM，运作正如所料请使用这些调试指令为了验证：

- debug aaa全部启用？配置所有AAA消息调试。
- 调试pem状态enable (event)？配置Policy Manager状态机调试。
- 调试pem事件enable (event)？配置Policy Manager事件调试。
- 调试下午SSH appgw enable (event)？配置应用网关调试。
- 调试下午ssh-tcp enable (event)？配置Policy Manager tcp处理调试。

下面是其中一些 debug 命令的输出范例：

```
(Cisco Controller) >debug aaa all enableUser user1 authenticated00:40:96:ac:e6:57 Returning AAA Error
'Success' (0) for mobile 00:40:96:ac:e6:57AuthorizationResponse: 0xbadff97c
structureSize.....70      resultCode.....0
protocolUsed.....0x00000008
proxyState.....00:40:96:AC:E6:57-00:00      Packet contains 2 AVPs:
AVP[01] Service-Type.....0x00000001 (1) (4 bytes)      AVP[02] Airespace /
WLAN-Identifier.....0x00000001 (1) (4 bytes)00:40:96:ac:e6:57 Applying new AAA override for
station 00:40:96:ac:e6:5700:40:96:ac:e6:57 Override values for station 00:40:96:ac:e6:57 source: 48,
valid bits: 0x1 qosLevel: -1, dscp: 0xffffffff, dot1pTag: 0xffffffff, sessionTimeout: -1dataAvgC: -1,
rTAvgC: -1, dataBurstC: -1, rTimeBurstC: -1 vlanIfName: '', aclName:00:40:96:ac:e6:57 Unable to apply
override policy for station 00:40:96:ac:e6:57 - VapAllowRadiusOverride is FALSE      AccountingMessage
Accounting Start: 0xa62700c      Packet contains 13 AVPs:      AVP[01] User-
Name.....user1 (5 bytes)      AVP[02] Nas-
Port.....0x00000001 (1) (4 bytes)      AVP[03] Nas-Ip-
Address.....0x0a4df4d2 (172881106) (4 bytes)      AVP[04] NAS-
Identifier.....0x574c4331 (1464615729) (4 bytes)      AVP[05] Airespace / WLAN-
Identifier.....0x00000001 (1) (4 bytes)      AVP[06] Acct-Session-
Id.....45e84f50/00:40:96:ac:e6:57/9 (28 bytes)      AVP[07] Acct-
Authentic.....0x00000002 (2) (4 bytes)      AVP[08] Tunnel-
Type.....0x0000000d (13) (4 bytes)      AVP[09] Tunnel-Medium-
Type.....0x00000006 (6) (4 bytes)      AVP[10] Tunnel-Group-
Id.....0x3330 (13104) (2 bytes)      AVP[11] Acct-Status-
Type.....0x00000001 (1) (4 bytes)      AVP[12] Calling-Station-
Id.....10.0.0.1 (8 bytes)      AVP[13] Called-Station-
Id.....10.77.244.210 (13 bytes)when web authentication is closed by user:(Cisco
Controller) >      AccountingMessage Accounting Stop: 0xa627c78      Packet contains 20 AVPs:
AVP[01] User-Name.....user1 (5 bytes)      AVP[02] Nas-
Port.....0x00000001 (1) (4 bytes)      AVP[03] Nas-Ip-
Address.....0x0a4df4d2 (172881106) (4 bytes)      AVP[04] NAS-
Identifier.....0x574c4331 (1464615729) (4 bytes)      AVP[05] Airespace / WLAN-
Identifier.....0x00000001 (1) (4 bytes)      AVP[06] Acct-Session-
Id.....45e84f50/00:40:96:ac:e6:57/9 (28 bytes)      AVP[07] Acct-
Authentic.....0x00000002 (2) (4 bytes)      AVP[08] Tunnel-
Type.....0x0000000d (13) (4 bytes)      AVP[09] Tunnel-Medium-
Type.....0x00000006 (6) (4 bytes)      AVP[10] Tunnel-Group-
Id.....0x3330 (13104) (2 bytes)      AVP[11] Acct-Status-
Type.....0x00000002 (2) (4 bytes)      AVP[12] Acct-Input-
Octets.....0x0001820e (98830) (4 bytes)      AVP[13] Acct-Output-
Octets.....0x00005206 (20998) (4 bytes)      AVP[14] Acct-Input-
Packets.....0x000006ee (1774) (4 bytes)      AVP[15] Acct-Output-
Packets.....0x00000041 (65) (4 bytes)      AVP[16] Acct-Terminate-
Cause.....0x00000001 (1) (4 bytes)      AVP[17] Acct-Session-
Time.....0x000000bb (187) (4 bytes)      AVP[18] Acct-Delay-
Time.....0x00000000 (0) (4 bytes)      AVP[19] Calling-Station-
Id.....10.0.0.1 (8 bytes)      AVP[20] Called-Station-
Id.....10.77.244.210 (13 bytes)(Cisco Controller) >debug pem state enableFri Mar 2
16:27:39 2007: 00:40:96:ac:e6:57 10.0.0.1 WEBAUTH_REQD (8) Change state to START (0)Fri Mar 2 16:27:39
2007: 00:40:96:ac:e6:57 10.0.0.1 START (0) Change state to AUTHCHECK (2)Fri Mar 2 16:27:39 2007:
00:40:96:ac:e6:57 10.0.0.1 AUTHCHECK (2) Change stateto L2AUTHCOMPLETE (4)Fri Mar 2 16:27:39 2007:
00:40:96:ac:e6:57 10.0.0.1 L2AUTHCOMPLETE (4) Change state to WEBAUTH_REQD (8)Fri Mar 2 16:28:16 2007:
00:16:6f:6e:36:2b 0.0.0.0 START (0) Change state to AUTHCHECK (2)Fri Mar 2 16:28:16 2007:
00:16:6f:6e:36:2b 0.0.0.0 AUTHCHECK (2) Change state to L2AUTHCOMPLETE (4)Fri Mar 2 16:28:16 2007:
00:16:6f:6e:36:2b 0.0.0.0 L2AUTHCOMPLETE (4) Change state to DHCP_REQD (7)Fri Mar 2 16:28:19 2007:
00:40:96:ac:e6:57 10.0.0.1 WEBAUTH_REQD (8) Change state to WEBAUTH_NOL3SEC (14)Fri Mar 2 16:28:19 2007:
```



```

00:40:96:ac:e6:57 10.0.0.1 WEBAUTH_NOL3SEC (14) Change state to RUN (20)Fri Mar 2 16:28:20 2007:
00:16:6f:6e:36:2b 0.0.0.0 START (0) Change state to AUTHCHECK (2)Fri Mar 2 16:28:20 2007:
00:16:6f:6e:36:2b 0.0.0.0 AUTHCHECK (2) Change state to L2AUTHCOMPLETE (4)Fri Mar 2 16:28:20 2007:
00:16:6f:6e:36:2b 0.0.0.0 L2AUTHCOMPLETE (4) Change state to DHCP_REQD (7)Fri Mar 2 16:28:24 2007:
00:40:96:af:a3:40 0.0.0.0 START (0) Change state to AUTHCHECK (2)Fri Mar 2 16:28:24 2007:
00:40:96:af:a3:40 0.0.0.0 AUTHCHECK (2) Change state to L2AUTHCOMPLETE (4)Fri Mar 2 16:28:24 2007:
00:40:96:af:a3:40 0.0.0.0 L2AUTHCOMPLETE (4) Change state to DHCP_REQD (7)Fri Mar 2 16:28:25 2007:
00:40:96:af:a3:40 40.0.0.1 DHCP_REQD (7) Change stateto RUN (20)Fri Mar 2 16:28:30 2007:
00:16:6f:6e:36:2b 0.0.0.0 START (0) Change state to AUTHCHECK (2)Fri Mar 2 16:28:30 2007:
00:16:6f:6e:36:2b 0.0.0.0 AUTHCHECK (2) Change state to L2AUTHCOMPLETE (4)Fri Mar 2 16:28:30 2007:
00:16:6f:6e:36:2b 0.0.0.0 L2AUTHCOMPLETE (4) Change state to DHCP_REQD (7)Fri Mar 2 16:28:34 2007:
00:16:6f:6e:36:2b 30.0.0.2 DHCP_REQD (7) Change stateto WEBAUTH_REQD (8)(Cisco Controller) >debug pem
events enableFri Mar 2 16:31:06 2007: 00:40:96:ac:e6:57 10.0.0.1 START (0) Initializing policyFri Mar 2
16:31:06 2007: 00:40:96:ac:e6:57 10.0.0.1 L2AUTHCOMPLETE (4)Plumbed mobile LWAPP rule on AP
00:0b:85:5b:fb:d0Fri Mar 2 16:31:06 2007: 00:40:96:ac:e6:57 10.0.0.1 WEBAUTH_REQD (8) Adding TMP ruleFri
Mar 2 16:31:06 2007: 00:40:96:ac:e6:57 10.0.0.1 WEBAUTH_REQD (8) Replacing Fast Path rule type =
Temporary Entry on AP 00:0b:85:5b:fb:d0, slot 0, interface = 1 ACL Id = 255, Jumbo Frames = NO, 802.1P =
0, DSCP = 0, TokenID = 1506Fri Mar 2 16:31:06 2007: 00:40:96:ac:e6:57 10.0.0.1 WEBAUTH_REQD (8)
Successfully plumbed mobile rule (ACL ID 255)Fri Mar 2 16:31:06 2007: 00:40:96:ac:e6:57 10.0.0.1
WEBAUTH_REQD (8) Deleting mobile policy rule 27Fri Mar 2 16:31:06 2007: 00:40:96:ac:e6:57 Adding Web
RuleID 28 for mobile 00:40:96:ac:e6:57Fri Mar 2 16:31:06 2007: 00:40:96:ac:e6:57 10.0.0.1 WEBAUTH_REQD
(8)Adding TMP ruleFri Mar 2 16:31:06 2007: 00:40:96:ac:e6:57 10.0.0.1 WEBAUTH_REQD (8)ReplacingFast Path
rule type = Temporary Entry on AP 00:0b:85:5b:fb:d0, slot 0, interface = 1 ACL Id = 255, Jumbo Frames =
NO, 802.1P = 0, DSCP = 0, TokenID = 1506Fri Mar 2 16:31:06 2007: 00:40:96:ac:e6:57 10.0.0.1 WEBAUTH_REQD
(8)Successfully plumbed mobile rule (ACL ID 255)Fri Mar 2 16:31:06 2007: 00:40:96:ac:e6:57 10.0.0.1
Removed NPU entry.Fri Mar 2 16:31:06 2007: 00:40:96:ac:e6:57 10.0.0.1 Added NPU entry of type 8Fri Mar
2 16:31:06 2007: 00:40:96:ac:e6:57 10.0.0.1 Added NPU entry of type 8

```

调试指令验证DHCP运作：

请使用这些调试指令为了检查DHCP客户端和服务端活动：

- **debug dhcp消息enable (event)** ? 显示关于DHCP客户端活动的调试信息和监控DHCP信息包状态。
- **debug dhcp数据包enable (event)** ? 显示DHCP信息包成水平信息。

这是这些调试指令输出示例：

```

(Cisco Controller) >debug dhcp message enable00:40:96:ac:e6:57 dhcp option len, including the magic cookie
= 6400:40:96:ac:e6:57 dhcp option: received DHCP REQUEST msg00:40:96:ac:e6:57 dhcp option: skipping
option 61, len 700:40:96:ac:e6:57 dhcp option: requested ip = 10.0.0.100:40:96:ac:e6:57 dhcp option:
skipping option 12, len 300:40:96:ac:e6:57 dhcp option: skipping option 81, len 700:40:96:ac:e6:57 dhcp
option: vendor class id = MSFT5.0 (len 8)00:40:96:ac:e6:57 dhcp option: skipping option 55, len
1100:40:96:ac:e6:57 dhcpParseOptions: options end, len 64, actual 6400:40:96:ac:e6:57 Forwarding DHCP
packet (332 octets)from 00:40:96:ac:e6:57-- packet received on direct-connect port requires forwarding to
external DHCP server. Next-hop is 10.0.0.5000:40:96:ac:e6:57 dhcp option len, including the magic
cookie = 6400:40:96:ac:e6:57 dhcp option: received DHCP ACK msg00:40:96:ac:e6:57 dhcp option: server id =
10.0.0.500:40:96:ac:e6:57 dhcp option: lease time (seconds) =8640000:40:96:ac:e6:57 dhcp option:
skipping option 58, len 400:40:96:ac:e6:57 dhcp option: skipping option 59, len 400:40:96:ac:e6:57 dhcp
option: skipping option 81, len 600:40:96:ac:e6:57 dhcp option: netmask = 255.0.0.000:40:96:ac:e6:57 dhcp
option: gateway = 10.0.0.5000:40:96:ac:e6:57 dhcpParseOptions: options end, len 64, actual 64(Cisco
Controller) >debug dhcp packet enableFri Mar 2 16:06:35 2007: 00:40:96:ac:e6:57 dhcpProxy: Received
packet: Client 00:40:96:ac:e6:57 DHCP Op: BOOTREQUEST(1), IP len: 300, switchport: 1, encap: 0xec03Fri
Mar 2 16:06:35 2007: 00:40:96:ac:e6:57 dhcpProxy: dhcp request, client: 00:40:96:ac:e6:57: dhcp op: 1,
port: 1, encap 0xec03, old mscb port number: 1Fri Mar 2 16:06:35 2007: 00:40:96:ac:e6:57 Determing relay
for 00:40:96:ac:e6:57 dhcpServer: 10.0.0.50, dhcpNetmask: 255.0.0.0, dhcpGateway: 10.0.0.50, dhcpRelay:
10.0.0.10 VLAN: 30Fri Mar 2 16:06:35 2007: 00:40:96:ac:e6:57 Relay settings for 00:40:96:ac:e6:57 Local
Address: 10.0.0.10, DHCP Server: 10.0.0.50, Gateway Addr: 10.0.0.50, VLAN: 30, port: 1Fri Mar 2 16:06:35
2007: 00:40:96:ac:e6:57 DHCP Message Type received: DHCP REQUEST msgFri Mar 2 16:06:35 2007:
00:40:96:ac:e6:57 op: BOOTREQUEST, htype: Ethernet,hlen: 6, hops: 1Fri Mar 2 16:06:35 2007:
00:40:96:ac:e6:57 xid: 1674228912, secs: 0, flags: 0Fri Mar 2 16:06:35 2007: 00:40:96:ac:e6:57
chaddr: 00:40:96:ac:e6:57Fri Mar 2 16:06:35 2007: 00:40:96:ac:e6:57 ciaddr: 10.0.0.1, yiaddr:
0.0.0.0Fri Mar 2 16:06:35 2007: 00:40:96:ac:e6:57 siaddr: 0.0.0.0, giaddr: 10.0.0.10Fri Mar 2

```

```

16:06:35 2007: 00:40:96:ac:e6:57 DHCP request to 10.0.0.50, len 350,switchport 1, vlan 30Fri Mar 2
16:06:35 2007: 00:40:96:ac:e6:57 dhcpProxy: Received packet: Client 00:40:96:ac:e6:57 DHCP Op:
BOOTREPLY(2), IP len: 300, switchport: 1, encap: 0xec00Fri Mar 2 16:06:35 2007: DHCP Reply to AP client:
00:40:96:ac:e6:57, frame len412, switchport 1Fri Mar 2 16:06:35 2007: 00:40:96:ac:e6:57 DHCP Message
Type received: DHCP ACK msg Fri Mar 2 16:06:35 2007: 00:40:96:ac:e6:57 op: BOOTREPLY, htype: Ethernet,
hlen: 6, hops: 0Fri Mar 2 16:06:35 2007: 00:40:96:ac:e6:57 xid: 1674228912, secs: 0, flags: 0Fri Mar
2 16:06:35 2007: 00:40:96:ac:e6:57 chaddr: 00:40:96:ac:e6:57Fri Mar 2 16:06:35 2007: 00:40:96:ac:e6:57
ciaddr: 10.0.0.1, yiaddr: 10.0.0.1Fri Mar 2 16:06:35 2007: 00:40:96:ac:e6:57 siaddr: 0.0.0.0,
giaddr: 0.0.0.0Fri Mar 2 16:06:35 2007: 00:40:96:ac:e6:57 server id: 1.1.1.1 rcvd server id:
10.0.0.50

```

调试指令验证TFTP升级：

- **show msglog** ? 显示消息日志写入对Cisco无线LAN控制器数据库。如果有超过15个条目，提示您显示在示例表示的消息。
- **调试转移trace** ? 配置转移或升级的调试。

这是trace命令调试的转移的示例：

```

Cisco Controller) >debug transfer trace enable(Cisco Controller) >transfer download
startMode..... TFTPData
Type..... CodeTFTP Server IP.....
172.16.1.1TFTP Packet Timeout..... 6TFTP Max
Retries..... 10TFTP Path.....
d:\WirelessImages\TFTP Filename..... AIR-WLC2006-K9-3-2-78-0.aesThis may
take some time.Are you sure you want to start? (y/n) yMon Feb 13 14:06:56 2006: RESULT_STRING: TFTP Code
transfer starting.Mon Feb 13 14:06:56 2006: RESULT_CODE:1TFTP Code transfer starting.Mon Feb 13 14:06:59
2006: Still waiting! Status = 2Mon Feb 13 14:07:00 2006: Locking tftp semaphore, pHost=172.16.1.1
pFilename=d:\WirelessImages\AIR-WLC2006-K9-3-2-78-0.aesMon Feb 13 14:07:00 2006: Semaphore locked, now
unlocking, pHost=172.16.1.1 pFilename=d:\WirelessImages\AIR-WLC2006-K9-3-2-78-0.aesMon Feb 13 14:07:00
2006: Semaphore successfully unlocked, pHost=172.16.1.1 pFilename=d:\WirelessImages\AIR-WLC2006-K9-3-2-
78-0.aesMon Feb 13 14:07:02 2006: Still waiting! Status = 1Mon Feb 13 14:07:05 2006: Still waiting!
Status = 1Mon Feb 13 14:07:08 2006: Still waiting! Status = 1Mon Feb 13 14:07:11 2006: Still waiting!
Status = 1Mon Feb 13 14:07:14 2006: Still waiting! Status = 1Mon Feb 13 14:07:17 2006: Still waiting!
Status = 1Mon Feb 13 14:07:19 2006: tftp rc=0, pHost=172.16.1.1 pFilename=d:\WirelessImages\AIR-WLC2006-
K9-3-2-78-0.aes pLocalFilename=/mnt/download/local.tgzMon Feb 13 14:07:19 2006: tftp = 6,
file_name=d:\WirelessImages\AIR-WLC2006-K9-3-2-78-0.aes, ip_address=172.16.1.1Mon Feb 13 14:07:19 2006:
upd_get_code_via_tftp = 6 (target=268435457)Mon Feb 13 14:07:19 2006: RESULT_STRING: TFTP receive
complete... extracting components.Mon Feb 13 14:07:19 2006: RESULT_CODE:6TFTP receive complete...
extracting components.Mon Feb 13 14:07:20 2006: Still waiting! Status = 2Mon Feb 13 14:07:23 2006: Still
waiting! Status = 1Mon Feb 13 14:07:23 2006: Still waiting! Status = 1Mon Feb 13 14:07:23 2006: Still
waiting! Status = 1Mon Feb 13 14:07:25 2006: RESULT_STRING: Executing init script.Mon Feb 13 14:07:25
2006: RESULT_STRING: Executing backup script.Executing backup script.Mon Feb 13 14:07:26 2006: Still
waiting! Status = 2Mon Feb 13 14:07:29 2006: Still waiting! Status = 1Mon Feb 13 14:07:31 2006:
RESULT_STRING: Writing new bootloader to flash disk.Writing new bootloader to flash disk.Mon Feb 13
14:07:32 2006: Still waiting! Status = 2Mon Feb 13 14:07:33 2006: RESULT_STRING: Executing
install_bootloader script.Executing install_bootloader script.Mon Feb 13 14:07:35 2006: Still waiting!
Status = 2Mon Feb 13 14:07:35 2006: RESULT_STRING: Writing new RTOS to flash disk.Mon Feb 13 14:07:36
2006: RESULT_STRING: Executing install_rtos script.Mon Feb 13 14:07:36 2006: RESULT_STRING: Writing new
Code to flash disk.Writing new Code to flash disk.Mon Feb 13 14:07:38 2006: Still waiting! Status = 2Mon
Feb 13 14:07:41 2006: Still waiting! Status = 1Mon Feb 13 14:07:42 2006: RESULT_STRING: Executing
install_code script.Executing install_code script.Mon Feb 13 14:07:44 2006: Still waiting! Status = 2Mon
Feb 13 14:07:47 2006: Still waiting! Status = 1Mon Feb 13 14:07:48 2006: RESULT_STRING: Writing new APIB
to flash disk.Writing new APIB to flash disk.Mon Feb 13 14:07:50 2006: Still waiting! Status = 2Mon Feb
13 14:07:51 2006: RESULT_STRING: Executing install_apib script.Executing install_apib script.Mon Feb 13
14:07:53 2006: Still waiting! Status = 2Mon Feb 13 14:07:53 2006: Still waiting! Status = 1Mon Feb 13
14:07:53 2006: Still waiting! Status = 1Mon Feb 13 14:07:53 2006: Still waiting! Status = 1Mon Feb 13
14:07:53 2006: Still waiting! Status = 1Mon Feb 13 14:07:54 2006: RESULT_STRING: Writing new APIB to
flash disk.Mon Feb 13 14:07:56 2006: RESULT_STRING: Executing install_apib script.Executing install_apib
script.Mon Feb 13 14:07:56 2006: Still waiting! Status = 2Mon Feb 13 14:07:59 2006: RESULT_STRING:
Writing new APIB to flash disk.Writing new APIB to flash disk.Mon Feb 13 14:08:00 2006: Still waiting!
Status = 2Mon Feb 13 14:08:00 2006: RESULT_STRING: Executing install_apib script.Executing install_apib
script.Mon Feb 13 14:08:03 2006: Still waiting! Status = 2Mon Feb 13 14:08:03 2006: RESULT_STRING:
Writing new Cert-patch to flash disk.Mon Feb 13 14:08:03 2006: RESULT_STRING: Executing

```

```
install_cert_patch script.Mon Feb 13 14:08:03 2006: RESULT_STRING: Executing fini script.Mon Feb 13
14:08:04 2006: RESULT_STRING: TFTP File transfer is successful.Reboot the switch for update to
complete.Mon Feb 13 14:08:06 2006: Still waiting! Status = 2Mon Feb 13 14:08:08 2006: ummounting:
<umount /mnt/download/> cwd = /mnt/applicationMon Feb 13 14:08:08 2006: finished umounting
```

802.1X/WPA/RSN/PMK高速缓冲存储的调试指令：

- **debug dot1x全部启用？显示802.1X调试信息。这是此命令输出示例：** (Cisco Controller) >**debug dot1x all enable**

```
Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding AAA_ATT_USER_NAME(1) index=0Fri
Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding AAA_ATT_CALLING_STATION_ID(31) index=1Fri Mar 23
21:35:01 2007: 00:40:96:ac:e6:57 Adding AAA_ATT_CALLED_STATION_ID(30) index=2Fri Mar 23 21:35:01
2007: 00:40:96:ac:e6:57 Adding AAA_ATT_NAS_PORT(5) index=3Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57
Adding AAA_ATT_NAS_IP_ADDRESS(4) index=4Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding
AAA_ATT_NAS_IDENTIFIER(32) index=5Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding
AAA_ATT_VAP_ID(1) index=6Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding AAA_ATT_SERVICE_TYPE(6)
index=7Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding AAA_ATT_FRAMED_MTU(12) index=8Fri Mar 23
21:35:01 2007: 00:40:96:ac:e6:57 Adding AAA_ATT_NAS_PORT_TYPE(61) index=9Fri Mar 23 21:35:01 2007:
00:40:96:ac:e6:57 Adding AAA_ATT_EAP_MESSAGE(79) index=10Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57
Adding AAA_ATT_MESS_AUTH(80) index=11Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 AAA EAP Packet
created request = 0xbddf944.. !!!!Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 AAA Message 'Interim
Response' received for mobile 00:40:96:ac:e6:57Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Received
EAP Attribute (code=1, length=24,id=1, dot1xcb->id = 1) for mobile 00:40:96:ac:e6:57Fri Mar 23
21:35:01 2007: 00000000: 01 01 00 18 11 01 00 08 38 93 8c 47 64 99 e1 d0 .....8..Gd...00000010:
45 41 50 55 53 45 52 31
EAPUSER1Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57
Skipping AVP (0/80) for mobile 00:40:96:ac:e6:57Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding
AAA_ATT_USER_NAME(1) index=0Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding
AAA_ATT_CALLING_STATION_ID(31) index=1Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding
AAA_ATT_CALLED_STATION_ID(30) index=2Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding
AAA_ATT_NAS_PORT(5) index=3Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding
AAA_ATT_NAS_IP_ADDRESS(4) index=4Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding
AAA_ATT_NAS_IDENTIFIER(32) index=5Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding
AAA_ATT_VAP_ID(1) index=6Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding AAA_ATT_SERVICE_TYPE(6)
index=7Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding AAA_ATT_FRAMED_MTU(12) index=8Fri Mar 23
21:35:01 2007: 00:40:96:ac:e6:57 Adding AAA_ATT_NAS_PORT_TYPE(61) index=9Fri Mar 23 21:35:01 2007:
00:40:96:ac:e6:57 Adding AAA_ATT_EAP_MESSAGE(79) index=10Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57
Adding AAA_ATT_MESS_AUTH(80) index=11Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 AAA EAP Packet
created request = 0xbddf944.. !!!!Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 AAA Message 'Interim
Response' received for mobile 00:40:96:ac:e6:57Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Received
EAP Attribute (code=3, length=4,id=1, dot1xcb->id = 1) for mobile 00:40:96:ac:e6:57Fri Mar 23
21:35:01 2007: 00000000: 03 01 00 04
....Fri Mar 23 21:35:01
2007: 00:40:96:ac:e6:57 Skipping AVP (0/80) for mobile 00:40:96:ac:e6:57Fri Mar 23 21:35:01 2007:
00:40:96:ac:e6:57 Adding AAA_ATT_USER_NAME(1) index=0Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57
Adding AAA_ATT_CALLING_STATION_ID(31) index=1Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding
AAA_ATT_CALLED_STATION_ID(30) index=2Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding
AAA_ATT_NAS_PORT(5) index=3Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding
AAA_ATT_NAS_IP_ADDRESS(4) index=4Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding
AAA_ATT_NAS_IDENTIFIER(32) index=5Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding
AAA_ATT_VAP_ID(1) index=6Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding AAA_ATT_SERVICE_TYPE(6)
index=7Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57 Adding AAA_ATT_FRAMED_MTU(12) index=8Fri Mar 23
21:35:01 2007: 00:40:96:ac:e6:57 Adding AAA_ATT_NAS_PORT_TYPE(61) index=9Fri Mar 23 21:35:01 2007:
00:40:96:ac:e6:57 Adding AAA_ATT_EAP_MESSAGE(79) index=10Fri Mar 23 21:35:01 2007: 00:40:96:ac:e6:57
Adding AAA_ATT_MESS_AUTH(80) index=11Fri Mar 23 21:35:05 2007: 00:40:96:ac:e6:57 AAA EAP Packet
created request = 0xbddf944.. !!!!Fri Mar 23 21:35:05 2007: 00:40:96:ac:e6:57 AAA Message 'Success'
received for mobile 00:40:96:ac:e6:57
```

- **调试dot11全部启用？启用无线电功能调试。**

- **显示客户端摘要<mac>？由MAC地址显示客户端的汇总的信息。这是此命令输出示例：** (Cisco Controller) >**show client summary**

```
Number of Clients..... 1MAC Address
AP Name Status WLAN Auth Protocol Port-----
-----
802.11a 1
-----00:40:96:ac:e6:57 AP0015.63e5.0c7e Associated 1 Yes
```

相关信息

- [Cisco 无线 LAN 控制器命令参考](#)
- [Cisco WLAN 控制器网络模块功能指南](#)
- [无线局域网控制器模块\(WLCM\)配置示例](#)
- [无线局域网控制器 Web 身份验证配置示例](#)
- [WLAN 控制器 \(WLC\) 中 EAP 身份验证的配置示例](#)
- [技术支持和文档 - Cisco Systems](#)