

# 如何以EAP-TLS认证使用aIOS WGB在Cisco Unified 无线网络

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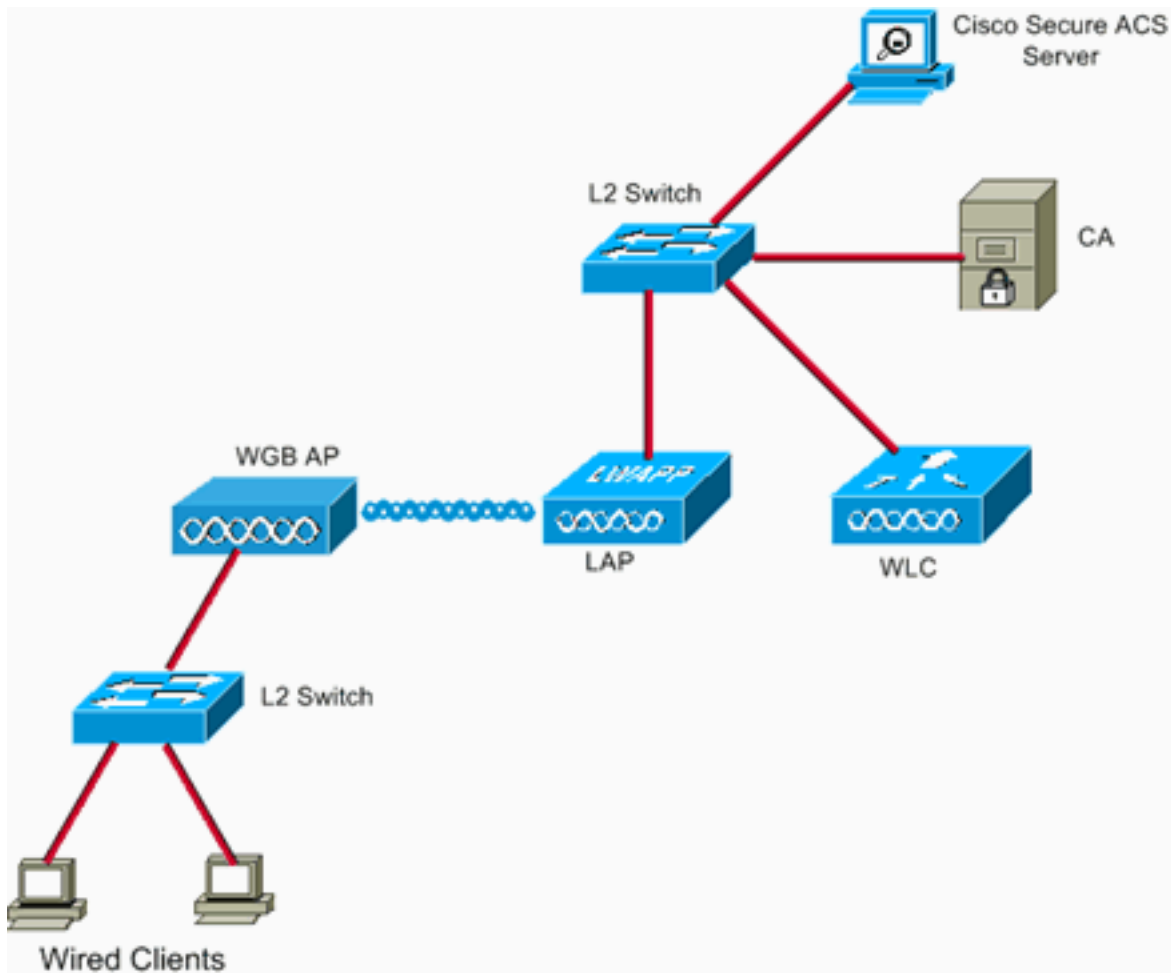
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## [Introduction](#)

此示例在工作组网桥(WGB)模式下显示如何配置和使用自动IOS (aIOS) AP，运行，以EAP-TLS认证，在Cisco Unified无线网络(CUWN)。在本例中，Microsoft认证机构(Windows 2003)在WGB发行了WGB的证书和通过复制和粘贴方法，这些证书手工被输入。ACS作为RADIUS服务器。使用与802.1X密钥管理的WPA1/TKIP加密。



## Prerequisites

### Requirements

尝试进行此配置之前，请确保满足以下要求：

- Cisco自动解决方案和基于Cisco IOS的接入点知识。
- 轻量级接入点协议(LWAPP)知识

### Components Used

本文档中的信息基于以下软件和硬件版本：

- 运行Cisco IOS软件版本12.4(10b)JA2的WGB使用Cisco IOS Software Release 12.4(10b)JA2或以上对于这些原因是重要的：Cisco Bug ID [CSCsl85710](#) (仅限注册用户) — 802.11a WGB不能禁用DFS信道或enable (event) ‘便携位置’Cisco Bug ID [CSCsl85798](#) (仅限注册用户) —在DFS事件以后，WGB不重新扫描Cisco Bug ID [CSCsm37686](#) (仅限注册用户) —为Tkip配置的WGB不能assoc对(WPA+TKIP)+(WPA2+AES)Cisco Bug ID [CSCsk85945](#) (仅限注册用户) — WPA1 WGB不能关联到WPA1+WPA2 WLANCisco Bug ID [CSCsk52437](#) (仅限注册用户) —，当AP去offchannel，WGB重新传输发生故障Cisco Bug ID [CSCsb85791](#) (仅限注册用户) —在新的镜像的安装的之后1130失败Cisco Bug ID [CSCsk63882](#) (仅限注册用户) —与被看到的traceback的坏id错误，当基于12.4的802.11 AP出现Cisco Bug ID [CSCsl36227](#) (仅限注册用户) —在WGB的Traceback：%SM-4-BADEVENT：事件‘eapResp’无效Cisco Bug ID [CSCsl46209](#) (仅限注册用户) — WGB 1242 11g无线电卡住在重置，终止传输Cisco Bug ID

[CSCsl58071 \(仅限注册用户\)](#) — WGB在EAP-TLS间歇地需要很长时间重新鉴别

- 运行版本4.2.99.0的WLC使用4.1.185.0或以上为此是重要的：Cisco Bug ID [CSCsk41360 \(仅限注册用户\)](#) —控制器持续处理EAPOL注销在接受EAPOL以后

**Note:** [您需要是一个注册的用户为了查看Bug的详细资料。](#)

ACS运行4.1;CA运行微软视窗2003高级服务器SP1。在任何情况下，当您访问了对CA，客户端浏览器是有活动X功能的Internet Explorer。

The information in this document was created from the devices in a specific lab environment.All of the devices used in this document started with a cleared (default) configuration.If your network is live, make sure that you understand the potential impact of any command.

## [Conventions](#)

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

## [配置概述](#)

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2. [在ACS上安装服务器证明](#)
3. [在ACS上安装CA证书](#)
4. [设置ACS使用服务器证明](#)
5. [配置ACS让WGB验证在EAP-TLS](#)
6. [配置WLC的WLAN验证到ACS](#)
7. [配置WGB的证书](#)设置主机名-，域名和时刻当必要时配置信任点。安装CA证书。生成AP证书请求。发送AP证书请求到CA。发行认证。安装AP认证。
8. [配置WGB SSID、请求方和无线电当必要时](#)
9. [配置一个被动客户端的条目\(如果需要\)](#)
10. [特殊注释是否使用802.11a \(5个千兆赫\)](#)
11. [同步Cisco IOS恳求者的时钟并且节省其时间对NVRAM \(与Cisco IOS Software Release 12.4\(21a\)JY的系统\)](#)

## [Configure](#)

本部分提供有关如何配置本文档所述功能的信息。

**Note:** 使用[命令查找工具](#) ( [仅限注册用户](#) ) 可获取有关本部分所使用命令的详细信息。

### [提出Microsoft CA \(如果需要\)](#)

完成这些步骤为了打开与使用的Microsoft CA Windows 2003高级服务器：

1. 首先，把IIS安装。选择**控制Panel>Add/Remove Programs> Windows组件>应用服务器**。
2. 然后，请安装CA.选择**控制面板>Add取消Programs> Windows组件>证书服务**。选择**企业根CA**。给予CA一个名字，并且记录下来它。

### [在ACS上安装服务器证明](#)

完成这些步骤为了在ACS上安装服务器证明。

1. 从在ACS服务器运作的浏览器，请访问对CA：<http://ip.of.CA.server/certsrv>请求认证  
>**Advanced请求**>**创建并且提交请求给此CA**。在命名(CN)字段，请输入某事。记录下来它。在认证必要的下拉菜单的种类，请选择**服务器验证证书**。在关键选项下，请选择：**CSP—微软 Base Cryptographic供应者v1.0密钥大小— 1024复选标记键如可输出**。**在本地计算机cert存储检查存储cert**。留下一切别的东西作为默认值，并且点击**提交**。您应该看到说的状态报告如果有一个问题，请看MS KB 323172，或者能挡活动X的路的其他事物。
2. 现在，在CA，请进入CA管理程序并且选择**Start > Administrative Tools > 认证机构**。在左边，请扩展CA图标，并且查找在待定请求下。在右边，请用鼠标右键单击自ACS的请求并且选择**所有任务>问题**。请求应该当前出现在发出的认证下。
3. 在ACS服务器，再请访问对<http://ip.of.CA.server/certsrv>。点击**视图待定证书请求的状况**。点击**服务器验证证书**。单击 **Install this certificate**。

## [在ACS上安装CA证书](#)

完成这些步骤：

从在ACS服务器运作的浏览器，请访问对CA：<http://ip.of.CA.server/certsrv>

1. 单击 **Download a CA certificate, certificate chain, or CRL**。
2. 选择**编码方法：Base64**。
3. 选择**下载CA证书**。
4. 打开.cer文件，然后点击**安装证书**。
5. 在认证导入向导中，**其次请点击**，然后在以下存储安置所有证书，然后访问。
6. 选中**显示物理存储区框**。
7. 扩展**可靠的根证书颁发机构**，选择**本地计算机**，并且点击**OK键**。
8. 点击**其次**，**完成**，并且好的为机箱。

## [设置ACS使用服务器证明](#)

完成这些步骤：

1. 在 ACS 服务器上，选择 **System Configuration**。
2. 选择 **ACS Certificate Setup**。
3. 选择 **Install ACS Certificate**。
4. 选择 **Use certificate from storage**。
5. 输入CN名字，在上一步使用的同一个名字。
6. 单击 **submit**。
7. 在ACS服务器中，请点击**系统配置**。
8. 选择 **ACS Certificate Setup**。
9. 选择 **Edit Certificate Trust List**。
10. 选中 **CA 复选框**。
11. 单击 **submit**。

## [配置ACS让WGB验证在EAP-TLS](#)

完成这些步骤为了配置ACS让WGB验证在ACS：

1. 添加WLC作为NAS (AAA客户端)。在ACS GUI中，请点击在左边的**网络配置**。在 AAA Clients 下，单击 **Add Entry**。输入名字在AAA客户端主机名下。输入WLC的管理接口IP地址在AAA客户端IP地址下。输入RADIUS键在共有的秘密下并且记录下来它。在验证使用下拉菜单，请选择**RADIUS (Cisco Airespace)**。单击 **Submit+Apply**。
2. 在ACS的Enable (event) EAP-TLS。选择**系统配置>全局认证设置**。在EAP-TLS下，例如，顶层EAP-TLS，在EAP-FAST以后，在PEAP下的不是EAP-TLS，检查**允许EAP-TLS**。检查全部三证书验证选项。选择**Submit+Restart**。
3. 添加WGB作为ACS。在用户设置，请输入WGB的名字在用户面板，并且点击**添加/编辑**。此示例使用“WGB”。输入难对猜测密码。在EAP-TLS需要这，虽然没使用。单击 **submit**。

## 配置WLC的WLAN验证到ACS

完成这些步骤：

1. 访问对WLC的GUI。
2. 添加ACS到RADIUS服务器列表：选择**安全>AAA > RADIUS>认证**并且点击**新**。输入ACS IP地址在服务器IP地址面板。从上一步输入RADIUS共有的秘密。单击 **Apply**。
3. 添加EAP-TLS客户端的—WLAN：在WLANs下，请点击**新**。进入SSID作为配置文件名字和WLAN SSID。在一般选项，请检查**Enabled复选框**，并且播放SSID (如期望的一样)。在安全选项下：在第2层选项下，请选择在第2层安全下拉菜单的**WPA+WPA2**，用**TKIP加密检查WPA策略**，不选定**WPA2与AES加密的策略**，并且选择**Auth键Mgmt的802.1X**。在AAA服务器下，除非ACS是全局默认RADIUS服务器，请添加ACS。单击 **Apply**。

## 配置WGB的证书

完成这些步骤：

**Note:** 此方法使用复制和粘贴方法。参考[配置证书使用](#)在Cisco 3200系列无线MIC软件配置指南的[crypto pki CLI](#)关于如何使用TFTP和SCEP方法的更多信息。

1. 设置主机名-，WGB的域名和时刻当必要时。主机名-必须匹配为它输入的用户名在ACS和在

```
ap#configure terminal
ap(config)#hostname WGB
WGB(config)#
```

时间一定是正确的，为了证明能工作(clock set exec CLI或者配置—snmp server)。

2. 配置CA的信任点：

```
WGB#config term
WGB(config)#crypto pki trustpoint CUT-PASTE
WGB(config)#enrollment terminal
WGB(config)#subject-name CN=WGB
```

**Note:** subject-name 需要CN=<ClientName>。没有它，Microsoft CA不能发出cert，与0x80094001错误信息。

```
WGB(config)#revocation-check none
```

**Note:** none命令的撤销检查是必要避免在Cisco Bug ID描述的问题[CSCsl07349](#) (仅限注册用户)。WGB经常分离/重新关联并且需要很长时间重新连接。

```
WGB(config)#rsakeypair manual-keys 1024
```

3. 在WGB上安装CA cert：获得CA cert的复制：访问对CA：<http://ip.of.CA.server/certsrv>单击

**Download a CA certificate, certificate chain, or CRL。选择编码方法：Base64。单击下载 CA 证书。保存.cer文件。安装CA cert：**

```
WGB(config)#crypto pki authenticate CUT-PASTE
Enter the base 64 encoded CA certificate.
```

End with a blank line or the word "quit" on a line by itself

现在，请粘贴在文本从在上一步下载的.cer文件。

```
WGB(config)#crypto pki authenticate CUT-PASTE
Enter the base 64 encoded CA certificate.
```

End with a blank line or the word "quit" on a line by itself

#### 4. 在WGB上请求并且安装客户端证书：生成证书请求在WGB：

```
WGB(config)#crypto pki enroll CUT-PASTE
% Start certificate enrollment ..
```

```
% The subject name in the certificate will include: CN=WGB
% Include the router serial number in the subject name? [yes/no]: no
% Include an IP address in the subject name? [no]: no
Display Certificate Request to terminal? [yes/no]: yes
Certificate Request follows:
```

```
MIIBjzCB+QIBADAvMQwwCgYDVQQDEwNXR0IxBzAdBgkqhkiG9w0BCQIWEFdhQI5j
Y2l1d2lmaS5jb20wgZ8wDQYJKoZIhvcNAQEBBQADgY0AMIGJAoGBAMuyZ0Y/xI3O
6Pwch3qA/JoBobYcvKHlc0B0qvqPgCmZgNb8nsFDV8ZFQKb3ySdIx1qOGtrn/Yoh
2LHzRKi+AWQHFGAB2vkFD0SJD8A6+YD/GqEdXGoo/e0eqJ7LgFq0wpUQoYlPxsPn
QUcK9ZDwd8EZNYdxU/jBtLG9MLX4gta9AgMBAAAGgITAfBgkqhkiG9w0BCQ4xEjAQ
MA4GA1UdDwEB/wQEAWIFoDANBgkqhkiG9w0BAQQFAAOBgQAsCItCKRtul6JmG4rz
cDRO0lQdmNYDuwksWHRgSHDMjVvBmoqA2bKeNsTj+svuX5S/Q2cGbzC6OLN/ftQ7
fw+RcKKm8+SpaEnU3eYGs3HhY7W9L4MY4JkY8I89ah15/V82SoIAOfCJDy5BvBP6
hk7GAPbMYkW9wJaNruVEvkYoLQ==
```

---End - This line not part of the certificate request---

```
Redisplay enrollment request? [yes/no]: no
WGB(config)#
```

请求客户端/用户证书对与以前被采集的输出的CA。使用此方法，以对CA的访问使用PC并且请求用户证书：访问对CA：<http://ip.of.CA.server/certsrv>选择"Request a certificate"选项。选择"提前证书请求"选项。通过使用base-64-encoded CMC或PKCS-10文件，选择"提交证书请求或者提交更新请求通过使用base-64-encoded PKCS-7文件"选项。粘贴在从"crypto pki生成的IOS登记"以前使用的命令的证书请求和请提交请求。最后，请下载认证作为"编码的Base64"。Note: 您需要确信，认证为WGB实际上生成了，当主题有"WGB" (用户名您提供了给WGB)作为CN。在WGB上安装用户证书：

```
WGB(config)#crypto pki import CUT-PASTE certificate
Enter the base 64 encoded certificate.
```

End with a blank line or the word "quit" on a line by itself

现在，请粘贴在文本从在上一步下载的.cer文件。

```
WGB(config)#crypto pki import CUT-PASTE certificate
Enter the base 64 encoded certificate.
```

End with a blank line or the word "quit" on a line by itself

#### 5. 验证从WGB CLI的证明：

```
WGB#show crypto pki certificates
```

```
Certificate
  Status: Available
  Certificate Serial Number: 1379B07200000000000C
  Certificate Usage: General Purpose
  Issuer:
    cn=AARONLAB
  Subject:
    Name: WGB
```

```
cn=WGB
CRL Distribution Points:
  http://wswin/CertEnroll/AARONLAB.crl
Validity Date:
  start date: 11:33:09 MST Mar 3 2008
  end   date: 11:43:09 MST Mar 3 2009
Associated Trustpoints: COPY-PASTE
```

```
CA Certificate
Status: Available
Certificate Serial Number: 612683248DBA539B44B039BD51CD1D48
Certificate Usage: Signature
Issuer:
  cn=AARONLAB
Subject:
  cn=AARONLAB
CRL Distribution Points:
  http://wswin/CertEnroll/AARONLAB.crl
Validity Date:
  start date: 16:34:48 MST Feb 28 2008
  end   date: 16:41:25 MST Feb 28 2018
Associated Trustpoints: COPY-PASTE
```

## 配置WGB SSID、请求方和无线电当必要时

完成这些步骤：

### 1. 配置SSID。这应该匹配在此[上一步](#)的WLC配置的SSID：

```
WGB#show crypto pki certificates
Certificate
Status: Available
Certificate Serial Number: 1379B07200000000000C
Certificate Usage: General Purpose
Issuer:
  cn=AARONLAB
Subject:
  Name: WGB
  cn=WGB
CRL Distribution Points:
  http://wswin/CertEnroll/AARONLAB.crl
Validity Date:
  start date: 11:33:09 MST Mar 3 2008
  end   date: 11:43:09 MST Mar 3 2009
Associated Trustpoints: COPY-PASTE
```

```
CA Certificate
Status: Available
Certificate Serial Number: 612683248DBA539B44B039BD51CD1D48
Certificate Usage: Signature
Issuer:
  cn=AARONLAB
Subject:
  cn=AARONLAB
CRL Distribution Points:
  http://wswin/CertEnroll/AARONLAB.crl
Validity Date:
  start date: 16:34:48 MST Feb 28 2008
  end   date: 16:41:25 MST Feb 28 2018
Associated Trustpoints: COPY-PASTE
```

### 2. 配置EAP-TLS请求方。用户名必须匹配在信任点和用户名条目的CN在ACS。

```
WGB#show crypto pki certificates
```

```
Certificate
Status: Available
Certificate Serial Number: 1379B07200000000000C
Certificate Usage: General Purpose
Issuer:
  cn=AARONLAB
Subject:
  Name: WGB
  cn=WGB
CRL Distribution Points:
  http://wswin/CertEnroll/AARONLAB.crl
Validity Date:
  start date: 11:33:09 MST Mar 3 2008
  end date: 11:43:09 MST Mar 3 2009
Associated Trustpoints: COPY-PASTE
```

```
CA Certificate
Status: Available
Certificate Serial Number: 612683248DBA539B44B039BD51CD1D48
Certificate Usage: Signature
Issuer:
  cn=AARONLAB
Subject:
  cn=AARONLAB
CRL Distribution Points:
  http://wswin/CertEnroll/AARONLAB.crl
Validity Date:
  start date: 16:34:48 MST Feb 28 2008
  end date: 16:41:25 MST Feb 28 2018
Associated Trustpoints: COPY-PASTE
```

### 3. 配置无线接口当必要时。在本例中，使用2.4千兆赫无线电(Dot11Radio0)。

```
WGB#show crypto pki certificates
```

```
Certificate
Status: Available
Certificate Serial Number: 1379B07200000000000C
Certificate Usage: General Purpose
Issuer:
  cn=AARONLAB
Subject:
  Name: WGB
  cn=WGB
CRL Distribution Points:
  http://wswin/CertEnroll/AARONLAB.crl
Validity Date:
  start date: 11:33:09 MST Mar 3 2008
  end date: 11:43:09 MST Mar 3 2009
Associated Trustpoints: COPY-PASTE
```

```
CA Certificate
Status: Available
Certificate Serial Number: 612683248DBA539B44B039BD51CD1D48
Certificate Usage: Signature
Issuer:
  cn=AARONLAB
Subject:
  cn=AARONLAB
CRL Distribution Points:
  http://wswin/CertEnroll/AARONLAB.crl
Validity Date:
  start date: 16:34:48 MST Feb 28 2008
  end date: 16:41:25 MST Feb 28 2018
Associated Trustpoints: COPY-PASTE
```

**Note:** 使用128，WGB保持关联对其根AP，只要能，因此这是一个固定WGB的一个适当的配



置。对于物理的漫游的WGB，这些配置可以使用，按照越来越积极漫游的顺序：

```
WGB#show crypto pki certificates
```

```
Certificate
```

```
Status: Available
Certificate Serial Number: 1379B07200000000000C
Certificate Usage: General Purpose
Issuer:
  cn=AARONLAB
Subject:
  Name: WGB
  cn=WGB
CRL Distribution Points:
  http://wswin/CertEnroll/AARONLAB.crl
Validity Date:
  start date: 11:33:09 MST Mar 3 2008
  end   date: 11:43:09 MST Mar 3 2009
Associated Trustpoints: COPY-PASTE
```

```
CA Certificate
```

```
Status: Available
Certificate Serial Number: 612683248DBA539B44B039BD51CD1D48
Certificate Usage: Signature
Issuer:
  cn=AARONLAB
Subject:
  cn=AARONLAB
CRL Distribution Points:
  http://wswin/CertEnroll/AARONLAB.crl
Validity Date:
  start date: 16:34:48 MST Feb 28 2008
  end   date: 16:41:25 MST Feb 28 2018
Associated Trustpoints: COPY-PASTE
```

### Note: 或

```
WGB#show crypto pki certificates
```

```
Certificate
```

```
Status: Available
Certificate Serial Number: 1379B07200000000000C
Certificate Usage: General Purpose
Issuer:
  cn=AARONLAB
Subject:
  Name: WGB
  cn=WGB
CRL Distribution Points:
  http://wswin/CertEnroll/AARONLAB.crl
Validity Date:
  start date: 11:33:09 MST Mar 3 2008
  end   date: 11:43:09 MST Mar 3 2009
Associated Trustpoints: COPY-PASTE
```

```
CA Certificate
```

```
Status: Available
Certificate Serial Number: 612683248DBA539B44B039BD51CD1D48
Certificate Usage: Signature
Issuer:
  cn=AARONLAB
Subject:
  cn=AARONLAB
CRL Distribution Points:
  http://wswin/CertEnroll/AARONLAB.crl
Validity Date:
  start date: 16:34:48 MST Feb 28 2008
  end   date: 16:41:25 MST Feb 28 2018
```

## 配置被动客户端的条目(如果需要)

如果一个或更多“被动客户端”是在WGB后，例如，有静态IP地址，并且连续不传输未经请求的IP数据的有线设备，则特殊步骤需要采取为了保证WGB和CUWN能找到那些客户端。在本例中，客户端有10.0.47.66的IP地址和0040.96b4.7e8f MAC地址。

完成这些步骤为了使用此方法：

1. 配置在WGB的一个静态网桥条目客户端的：

```
B(config)#bridge 1 address 0040.96b4.7e8f
forward fastethernet0
```

2. 配置在WLC的一个静态MAC对IP地址映射：配置WLAN为了enable (event) MAC过滤，AAA覆盖和不要求DHCP：

```
(Cisco Controller) >show wlan summary
```

```
!--- Make a note of the WLAN ID for the SSID used for EAP-TLS. (Cisco Controller) >config
wlan disable 6
```

```
(Cisco Controller) >config wlan mac-filtering enable 6
```

```
(Cisco Controller) >config wlan aaa-override enable 6
```

```
(Cisco Controller) >config wlan dhcp_server 6 0.0.0.0
```

```
!--- Do not have DHCP required checked.
```

添加MAC过滤器(MAC对IP映射)每个客户端的：

```
(Cisco Controller) >config macfilter add
```

```
0040.96b4.7e8f 6 management "client1" 10.0.47.66
```

## 特殊注释是否使用802.11a (5个千兆赫)

因为802.11a比802.11b/g (2.4千兆赫)支持许多信道，能花费WGB很多时间扫描所有可用的信道。所以，储运损耗，当您漫游在5个千兆赫中，或者在连接问题以后对根AP时，能持续在几秒钟。另外，如果使用DFS信道，信道扫描能花费很多时间，并且在DFS雷达探测事件以后的摘要储运损耗能发生。

建议因此，如果使用802.11a，您应该避免使用DFS信道，例如，在FCC域和使用仅UNII-1和UNII-3波段。应该也配置WGB的Dot11Radio1接口扫描仅信道在使用中在覆盖区域。例如：

```
WGB(config-if)#mobile station scan
36 40 44 48 149 153 157
```

## 配置

这是AP1242的一种示例WGB配置，该与WPA1-TKIP的用途Cisco IOS Software Release 12.4(10b)JA2，EAP-TLS认证，2.4千兆赫。

**Note:** 此配置一些线路被移动了向第二行由于空间约束。

```
WGB(config-if)#mobile station scan
36 40 44 48 149 153 157
```

## [同步Cisco IOS请求者的时钟并且节省其时间对NVRAM \(与Cisco IOS Software Release 12.4\(21a\)JY的系统\)](#)

请求方配置进行其网络连接基于认证的认证，设备此后指请求方的Cisco IOS设备，可能无法连接到网络，除非这些步骤采取。

为了确信，请求方，在重新加载，但是，在它连接了到网络前后，知道近似几点是，因此能验证服务器的认证，您必须配置请求方了解从Ntp server的时间和给其NVRAM写时间。这是运行Cisco IOS Software Release 12.4(21a)JY的所有系统的一个需求。

完成这些步骤：

1. 配置请求方同步其时间到已知好Ntp server，请求方有网络访问和存储其时间到其NVRAM。示  
**例1.1。(在一个系统与SNTP和没有硬件日历)：**

```
Supp(config)#sntp server 10.0.47.1
Supp(config)#clock save interval 8
Supp(config)#end
Supp#write memory
```

- 示例1.2。(在一个系统与NTP和与硬件日历)：**

```
Supp(config)#ntp server 10.0.47.1 iburst
Supp(config)#ntp update-calendar
Supp(config)#end
Supp#write memory
```

2. 切记请求方有网络连通性对Ntp server和同步其时间。示**例2.1：**

```
Supp#show sntp
SNTP server      Stratum   Version   Last Receive
10.0.47.1        3         1         00:00:09    Synced
```

- 示例2.2：**

```
Supp#show ntp status
Clock is synchronized, stratum 4, reference is 10.95.42.129
[ ... ]
```

3. 切记正确时间被保存对请求方的硬件日历，如果有一，或者对NVRAM，如果不。示**例3.1。在  
没有硬件日历的一个系统：重新载入请求方为了确信，时间被保存对NVRAM。在它重新载入  
后，请验证时间是近似正确的，既使当Ntp server是未提供的：**

```
Supp#show clock detail
*08:24:30.103 -0700 Thu Apr 15 2010
No time source
```

- 示例3.2。在与硬件日历的一个系统：给硬件日历写当前，正确时间：**

```
Supp#clock update-calendar
```

验证日历是正确的：

```
Supp#show calendar
```

## [Verify](#)

Use this section to confirm that your configuration works properly.

[命令输出解释程序 \( 仅限注册用户 \)](#) (OIT) 支持某些 show 命令。使用 OIT 可查看对 show 命令输出的分析。

验证WGB连接。

在WLC , WGB的无线电MAC地址应该出现作为一个相关的客户端。例如 :

(Cisco Controller) >show client summary

Number of Clients..... 5

MAC Address	AP Name	Status	WLAN/ Guest-Lan	Auth	Protocol	Port	Wired
00:00:39:dd:4d:24	AP0019.e802.3034	Associated	6	Yes	N/A	4	No
00:0e:9b:cb:d3:9c	AP0019.e802.3034	Associated	1	No	802.11b	4	No
00:16:6f:50:e1:25	AP0019.e802.3034	Probing	N/A	No	802.11b	4	No
<b>00:19:56:b0:7e:b6</b>	<b>AP0019.e802.3034</b>	<b>Associated</b>	<b>6</b>	<b>Yes</b>	<b>802.11b</b>	<b>4</b>	<b>No</b>
00:40:96:b4:7e:8f	AP0019.e802.3034	Associated	6	Yes	N/A	4	No

Use "show client detail <MAC>" to see more information on the WGB:

(Cisco Controller) >show client detail 00:19:56:b0:7e:b6

```
Client MAC Address..... 00:19:56:b0:7e:b6
Client Username ..... WGB
AP MAC Address..... 00:19:a9:42:e4:10
Client State..... Associated
Workgroup Bridge..... 2 client(s)
Wireless LAN Id..... 6
BSSID..... 00:19:a9:42:e4:15
Channel..... 1
IP Address..... 10.0.47.23
```

在WGB , 您能使用show dot11 associations和show dot11 associations全客户端命令为了发现关于关联的更多详细资料到AP。请使用ping w.x.y.z命令为了连接WGB的默认网关。

验证WGB的客户端连接。

在WGB , 您能使用show bridge 1 fastethernet0命令为了发现通过FastEthernet0接口了解的地址 :

WGB.Cisco.COM#show bridge 1 fastethernet0

Total of 300 station blocks, 292 free  
Codes: P - permanent, S - self

Bridge Group 1:

Address	Action	Interface	Age	RX count	TX count
<b>0000.39dd.4d24</b>	<b>forward</b>	<b>FastEthernet0</b>	<b>1</b>	<b>328</b>	<b>71</b>
0040.96b4.7e8f	forward	FastEthernet0	P	0	352

On the WLC, the WGB's wired clients will show up as associated clients with protocol "N/A":

(Cisco Controller) >show client summary

Number of Clients..... 5

MAC Address	AP Name	Status	WLAN/ Guest-Lan	Auth	Protocol	Port	Wired
<b>00:00:39:dd:4d:24</b>	<b>AP0019.e802.3034</b>	<b>Associated</b>		<b>Yes</b>	<b>N/A</b>	<b>4</b>	<b>No</b>
00:0e:9b:cb:d3:9c	AP0019.e802.3034	Associated	1	No	802.11b	4	No
00:16:6f:50:e1:25	AP0019.e802.3034	Probing	N/A	No	802.11b	4	No
00:19:56:b0:7e:b6	AP0019.e802.3034	Associated	6	Yes	802.11b	4	No

00:40:96:b4:7e:8f AP0019.e802.3034 Associated 6 Yes N/A 4 No

```
(Cisco Controller) >show client detail 00:00:39:dd:4d:24
Client MAC Address..... 00:00:39:dd:4d:24
Client Username ..... N/A
AP MAC Address..... 00:19:a9:42:e4:10
Client State..... Associated
Workgroup Bridge Client..... WGB: 00:19:56:b0:7e:b6
Wireless LAN Id..... 6
BSSID..... 00:19:a9:42:e4:15
Channel..... 1
```

## Troubleshoot

本部分提供的信息可用于对配置进行故障排除。

### 故障排除命令

[命令输出解释程序 \(仅限注册用户\)](#) (OIT) 支持某些 **show** 命令。使用 OIT 可查看对 **show** 命令输出的分析。

**Note:** 使用 **debug** 命令之前，请参阅[有关 Debug 命令的重要信息](#)。

### 调试示例

- [WGB侧示例](#)
- [WLC侧示例](#)

### WGB侧示例

在WGB，此示例假设2.4千兆赫;如果使用5个千兆赫，请指定Dot11Radio1而不是Dot11Radio0。

```
WGB#no debug dot11 dot11radio0 print printf
!--- This runs the radio debugs through !--- the standard Cisco IOS logger. WGB#debug dot11
dot11radio0 trace print mgmt uplink
!--- radio driver debugs: 802.11 management frames !--- and uplink events WGB#debug dot11 supp-
sm-dot1x
!--- interface to the 802.1X supplicant
```

这是在早先配置产生的一个正常关联的示例：

#### WGB侧示例

```
WGB#no debug dot11 dot11radio0 print printf
!--- This runs the radio debugs through !--- the
standard Cisco IOS logger. WGB#debug dot11 dot11radio0
trace print mgmt uplink
!--- radio driver debugs: 802.11 management frames !---
and uplink events WGB#debug dot11 supp-sm-dot1x
!--- interface to the 802.1X supplicant
```

### WLC侧调试

#### WLC侧示例

```
(Cisco Controller) >debug mac addr
00:19:56:b0:7e:b6

!--- Filter debugs on the radio !--- MAC address of the
WGB. (Cisco Controller) >debug dot11 state enable

(Cisco Controller) >debug dot1x events enable

(Cisco Controller) >debug dot1x states enable

(Cisco Controller) >debug pem events enable

(Cisco Controller) >debug pem state enable

(Cisco Controller) >debug aaa packet enable

(Cisco Controller) >debuug aaa events enable

(Cisco Controller) >debug aaa events enable

Tue Mar  4 16:45:56 2008: 00:19:56:b0:7e:b6 Processing
WPA IE type 221,
                                length 24 for mobile
00:19:56:b0:7e:b6
Tue Mar  4 16:45:56 2008: 00:19:56:b0:7e:b6 10.0.47.23
RUN (20)
                                Change state to START (0) last
state RUN (20)
Tue Mar  4 16:45:56 2008: 00:19:56:b0:7e:b6 10.0.47.23
START (0)
                                Initializing policy
Tue Mar  4 16:45:56 2008: 00:19:56:b0:7e:b6 10.0.47.23
START (0)
                                Change state to AUTHCHECK (2)
last state RUN (20)
Tue Mar  4 16:45:56 2008: 00:19:56:b0:7e:b6 10.0.47.23
AUTHCHECK (2)
                                Change state to 8021X_REQD (3)
last state RUN (20)
Tue Mar  4 16:45:56 2008: 00:19:56:b0:7e:b6 10.0.47.23
8021X_REQD (3)
                                Plumbed mobile LWAPP rule on
AP 00:19:a9:42:e4:10
  Tue Mar  4 16:45:56 2008: 00:19:56:b0:7e:b6
apfPemAddUser2 (apf_policy.c:209)
                                Changing state for mobile
00:19:56:b0:7e:b6 on
  AP 00:19:a9:42:e4:10 from Associated to Associated
Tue Mar  4 16:45:56 2008: 00:19:56:b0:7e:b6
apfProcessAssocReq (apf_80211.c:4149)
                                Changing state for mobile
00:19:56:b0:7e:b6 on
  AP 00:19:a9:42:e4:10 from Associated to Associated

!--- WGB is associated in 802.11. !--- Note in this case
that the WGB associated !--- when it was already
associated. Tue Mar  4 16:45:56 2008: 00:19:56:b0:7e:b6
dot1x - moving mobile 00:19:56:b0:7e:b6 into Connecting
state Tue Mar  4 16:45:56 2008: 00:19:56:b0:7e:b6 Sending
EAP-Request/Identity to mobile 00:19:56:b0:7e:b6 (EAP Id
1) Tue Mar  4 16:45:56 2008: 00:19:56:b0:7e:b6 10.0.47.23
Removed NPU entry. Tue Mar  4 16:45:59 2008:
```

```
00:19:56:b0:7e:b6 Received EAPOL START from mobile
00:19:56:b0:7e:b6 Tue Mar 4 16:45:59 2008:
00:19:56:b0:7e:b6 dot1x - moving mobile
00:19:56:b0:7e:b6 into Connecting state Tue Mar 4
16:45:59 2008: 00:19:56:b0:7e:b6 Sending EAP-
Request/Identity to mobile 00:19:56:b0:7e:b6 (EAP Id 2)
Tue Mar 4 16:45:59 2008: 00:19:56:b0:7e:b6 Received
EAPOL EAPPKT from mobile 00:19:56:b0:7e:b6 Tue Mar 4
16:45:59 2008: 00:19:56:b0:7e:b6 Received EAP Response
packet with mismatching id (currentid=2, eapid=1) from
mobile 00:19:56:b0:7e:b6 Tue Mar 4 16:45:59 2008:
00:19:56:b0:7e:b6 Received EAPOL EAPPKT from mobile
00:19:56:b0:7e:b6 Tue Mar 4 16:45:59 2008:
00:19:56:b0:7e:b6 Received Identity Response (count=2)
from mobile 00:19:56:b0:7e:b6 !--- WGB sends EAPOL START
while !--- WLC sends its EAP ID-request, !--- which
confuses the state machines for a moment, !--- but
eventually we get on track, and the WLC !--- gets its
ID-response from the WGB supplicant. Tue Mar 4 16:45:59
2008: 00:19:56:b0:7e:b6 EAP State update from Connecting
to Authenticating for mobile 00:19:56:b0:7e:b6 Tue Mar 4
16:45:59 2008: 00:19:56:b0:7e:b6 dot1x - moving mobile
00:19:56:b0:7e:b6 into Authenticating state Tue Mar 4
16:45:59 2008: 00:19:56:b0:7e:b6 Entering Backend Auth
Response state for mobile 00:19:56:b0:7e:b6 Tue Mar 4
16:45:59 2008: 00:19:56:b0:7e:b6 Successful transmission
of Authentication Packet (id 17) to 10.0.47.42:1812,
proxy state 00:19:56:b0:7e:b6-00:00 Tue Mar 4 16:45:59
2008: 00000000: 01 11 00 9c 85 82 35 15 62 0f 50 bd 32
60 0c e6 .....5.b.P.2`.. Tue Mar 4 16:45:59 2008:
00000010: de 94 b2 40 01 05 57 47 42 1f 13 30 30 2d 31
39 ...@..WGB..00-19 Tue Mar 4 16:45:59 2008: 00000020:
2d 35 36 2d 42 30 2d 37 45 2d 42 36 1e 1a 30 30 -56-B0-
7E-B6..00 Tue Mar 4 16:45:59 2008: 00000030: 2d 31 39 2d
41 39 2d 34 32 2d 45 34 2d 31 30 3a -19-A9-42-E4-10: Tue
Mar 4 16:45:59 2008: 00000040: 45 41 50 54 4c 53 05 06
00 00 00 04 04 06 0a 00 EAPTLS..... Tue Mar 4
16:45:59 2008: 00000050: 2f 06 20 10 74 75 63 73 6f 6e
2d 77 6c 63 32 30 /...tucson-wlc20 Tue Mar 4 16:45:59
2008: 00000060: 30 36 1a 0c 00 00 37 63 01 06 00 00 00
06 06 06 06....7c..... Tue Mar 4 16:45:59 2008:
00000070: 00 00 00 02 0c 06 00 00 05 14 3d 06 00 00 00
13 .....=..... Tue Mar 4 16:45:59 2008: 00000080:
4f 0a 02 02 00 08 01 57 47 42 50 12 c5 f3 f5 9c
O.....WGBP.... Tue Mar 4 16:45:59 2008: 00000090: c0
81 0e 3e 23 c0 a7 1b 03 f7 af 5b ...>#.....[ Tue Mar 4
16:45:59 2008: 00000000: 0b 11 00 47 54 d3 b6 45 75 eb
83 b7 97 7c 80 1b ...GT..Eu....|.. Tue Mar 4 16:45:59
2008: 00000010: 13 03 71 1d 4f 15 01 b0 00 13 11 01 00
08 3d 17 ..q.O.....=. Tue Mar 4 16:45:59 2008:
00000020: 4a 94 eb c7 3b 3e 57 47 42 18 0c 53 56 43 3d
30 J...;>WGB..SVC=0 Tue Mar 4 16:45:59 2008: 00000030:
2e 36 34 37 3b 50 12 67 50 d3 ad 88 7d 16 8b 5b
.647;P.gP...].[ Tue Mar 4 16:45:59 2008: 00000040: d1
25 57 56 b2 ec 76.%WV..v Tue Mar 4 16:45:59 2008:
****Enter processIncomingMessages: response code=11 Tue
Mar 4 16:45:59 2008: ****Enter processRadiusResponse:
response code=11 Tue Mar 4 16:45:59 2008:
00:19:56:b0:7e:b6 Access-Challenge received from RADIUS
server 10.0.47.42 for mobile 00:19:56:b0:7e:b6 receiveId
= 7 Tue Mar 4 16:45:59 2008: 00:19:56:b0:7e:b6
Processing Access-Challenge for mobile 00:19:56:b0:7e:b6
!--- The WLC forwards the ID-request info, !--- that it
had received !--- in 802.1X from the WGB supplicant, to
```

the RADIUS server, !--- in a RADIUS Access-Request packet. !--- The RADIUS server responds with an Access-Challenge. !--- If there is a configuration problem with RADIUS, then either !--- the RADIUS server does not respond, or it responds !--- with a RADIUS Access-Reject. !--- If EAP-TLS goes well, there is much back and forth !--- between the EAP exchange on the wireless !--- link, and the RADIUS exchange between the WLC and ACS. Tue Mar 4 16:45:59 2008: 00:19:56:b0:7e:b6 Entering Backend Auth Req state (id=176) for mobile  
00:19:56:b0:7e:b6 Tue Mar 4 16:45:59 2008:  
00:19:56:b0:7e:b6 WARNING: updated EAP-Identifer 2 ==> 176 for STA 00:19:56:b0:7e:b6 Tue Mar 4 16:45:59 2008:  
00:19:56:b0:7e:b6 Sending EAP Request from AAA to mobile  
00:19:56:b0:7e:b6 (EAP Id 176) Tue Mar 4 16:45:59 2008:  
00:19:56:b0:7e:b6 Received EAPOL EAPPKT from mobile  
00:19:56:b0:7e:b6 Tue Mar 4 16:45:59 2008:  
00:19:56:b0:7e:b6 Received EAP Response from mobile  
00:19:56:b0:7e:b6 (EAP Id 176, EAP Type 3) Tue Mar 4 16:45:59 2008: 00:19:56:b0:7e:b6 Entering Backend Auth Response state for mobile 00:19:56:b0:7e:b6 Tue Mar 4 16:45:59 2008: 00:19:56:b0:7e:b6 Successful transmission of Authentication Packet (id 18) to 10.0.47.42:1812, proxy state 00:19:56:b0:7e:b6-00:00 Tue Mar 4 16:45:59 2008: 00000000: 01 12 00 a6 d5 64 56 8a e8 27 fa de ca 69 c4 2a .....dV...'...i.\* Tue Mar 4 16:45:59 2008: 00000010: cd 06 26 0c 01 05 57 47 42 1f 13 30 30 2d 31 39 ..&...WGB..00-19 Tue Mar 4 16:45:59 2008: 00000020: 2d 35 36 2d 42 30 2d 37 45 2d 42 36 1e 1a 30 30 -56-B0-7E-B6..00 Tue Mar 4 16:45:59 2008: 00000030: 2d 31 39 2d 41 39 2d 34 32 2d 45 34 2d 31 30 3a -19-A9-42-E4-10: Tue Mar 4 16:45:59 2008: 00000040: 45 41 50 54 4c 53 05 06 00 00 04 04 06 0a 00 EAPTLS..... Tue Mar 4 16:45:59 2008: 00000050: 2f 06 20 10 74 75 63 73 6f 6e 2d 77 6c 63 32 30 /...tucson-wlc20 Tue Mar 4 16:45:59 2008: 00000060: 30 36 1a 0c 00 00 37 63 01 06 00 00 00 06 06 06 06....7c..... Tue Mar 4 16:45:59 2008: 00000070: 00 00 00 02 0c 06 00 00 05 14 3d 06 00 00 00 13 .....=..... Tue Mar 4 16:45:59 2008: 00000080: 4f 08 02 b0 00 06 03 0d 18 0c 53 56 43 3d 30 2e O.....SVC=0. Tue Mar 4 16:45:59 2008: 00000090: 36 34 37 3b 50 12 43 6e 32 b6 e9 11 a3 47 8e 96 647;P.Cn2....G.. Tue Mar 4 16:45:59 2008: 000000a0: dc f0 37 a8 37 9e..7.7. Tue Mar 4 16:45:59 2008: 00000000: 0b 12 00 4b 71 7a 36 1d d9 24 16 8d c0 2f 45 52 ...Kqz6..\$/ER Tue Mar 4 16:45:59 2008: 00000010: 82 3d 58 cf 4f 08 01 b1 00 06 0d 20 18 1d 45 41 .=X.O.....EA Tue Mar 4 16:45:59 2008: 00000020: 50 3d 30 2e 32 30 32 2e 32 37 65 61 2e 31 3b 53 P=0.202.27ea.1;S Tue Mar 4 16:45:59 2008: 00000030: 56 43 3d 30 2e 36 34 37 3b 50 12 71 bf 1f 5c c7 VC=0.647;P.q..\ Tue Mar 4 16:45:59 2008: 00000040: 69 7e e8 cc 9d 71 18 de b7 e5 b7 i~...q.... Tue Mar 4 16:45:59 2008: \*\*\*\*Enter processIncomingMessages: response code=11 Tue Mar 4 16:45:59 2008: \*\*\*\*Enter processRadiusResponse: response code=11 Tue Mar 4 16:45:59 2008: 00:19:56:b0:7e:b6 Access-Challenge received from RADIUS server 10.0.47.42 for mobile 00:19:56:b0:7e :b6 receiveId = 7 Tue Mar 4 16:45:59 2008: 00:19:56:b0:7e:b6 Processing Access-Challenge for mobile 00:19:56:b0:7e:b6 Tue Mar 4 16:45:59 2008: 00:19:56:b0:7e:b6 Entering Backend Auth Req state (id=177) for mobile 00:19:56:b0:7e:b6 Tue Mar 4 16:45:59 2008: 00:19:56:b0:7e:b6 Sending EAP Request from AAA to



mobile 00:19:56:b0:7e:b6 (EAP Id 177) Tue Mar 4 16:45:59  
2008: 00:19:56:b0:7e:b6 Received EAPOL EAPPKT from  
mobile 00:19:56:b0:7e:b6 Tue Mar 4 16:45:59 2008:  
00:19:56:b0:7e:b6 Received EAP Response from mobile  
00:19:56:b0:7e:b6 (EAP Id 177, EAP Type 13) Tue Mar 4  
16:45:59 2008: 00:19:56:b0:7e:b6 Entering Backend Auth  
Response state for mobile 00:19:56:b0:7e:b6 Tue Mar 4  
16:45:59 2008: 00:19:56:b0:7e:b6 Successful transmission  
of Authentication Packet (id 19) to 10.0.47.42:1812,  
proxy state 00:19:56:b0:7e:b6-00:00 Tue Mar 4 16:45:59  
2008: 00000000: 01 13 00 ed 30 a2 b8 d3 6c 6a e9 08 04  
f9 b9 32 ....0...lj.....2 Tue Mar 4 16:45:59 2008:  
00000010: 98 fe 36 62 01 05 57 47 42 1f 13 30 30 2d 31  
39 ..6b..WGB..00-19 Tue Mar 4 16:45:59 2008: 00000020:  
2d 35 36 2d 42 30 2d 37 45 2d 42 36 1e 1a 30 30 -56-B0-  
7E-B6..00 Tue Mar 4 16:45:59 2008: 00000030: 2d 31 39 2d  
41 39 2d 34 32 2d 45 34 2d 31 30 3a -19-A9-42-E4-10: Tue  
Mar 4 16:45:59 2008: 00000040: 45 41 50 54 4c 53 05 06  
00 00 00 04 04 06 0a 00 EAPTLS..... Tue Mar 4  
16:45:59 2008: 00000050: 2f 06 20 10 74 75 63 73 6f 6e  
2d 77 6c 63 32 30 /...tucson-wlc20 Tue Mar 4 16:45:59  
2008: 00000060: 30 36 1a 0c 00 00 37 63 01 06 00 00 00  
06 06 06 06....7c..... Tue Mar 4 16:45:59 2008:  
00000070: 00 00 00 02 0c 06 00 00 05 14 3d 06 00 00 00  
13 .....=..... Tue Mar 4 16:45:59 2008: 00000080:  
4f 3e 02 b1 00 3c 0d 80 00 00 00 32 16 03 01 00  
O>...<.....2.... Tue Mar 4 16:45:59 2008: 00000090: 2d  
01 00 00 29 03 01 47 cd df 36 c4 bc 40 48 75 -  
...)..G..6..@Hu Tue Mar 4 16:45:59 2008: 000000a0: f4 09  
ea 60 0c 40 fc 99 a0 e7 11 15 00 7e ca 90  
...`.@.....~.. Tue Mar 4 16:45:59 2008: 000000b0: da  
5a d3 39 45 be ca 00 00 02 00 04 01 00 18 1d  
.Z.9E..... Tue Mar 4 16:45:59 2008: 000000c0: 45  
41 50 3d 30 2e 32 30 32 2e 32 37 65 61 2e 31  
EAP=0.202.27ea.1 Tue Mar 4 16:45:59 2008: 000000d0: 3b  
53 56 43 3d 30 2e 36 34 37 3b 50 12 c0 6b 4c  
;SVC=0.647;P..kL Tue Mar 4 16:45:59 2008: 000000e0: 37  
6c 1a 4f 58 89 18 2b c4 0e 99 cd 0f 71.OX..+..... Tue  
Mar 4 16:45:59 2008: 00000000: 0b 13 04 3f 5d 80 89 e2  
e7 3f b0 c4 4c 99 d2 bd ...?]....?.L... Tue Mar 4  
16:45:59 2008: 00000010: e5 e3 6e af 4f ff 01 b2 03 f4  
0d c0 00 00 07 9d ..n.O..... Tue Mar 4 16:45:59  
2008: 00000020: 16 03 01 00 4a 02 00 00 46 03 01 47 cd  
df 2a f3 ....J...F..G..\*. Tue Mar 4 16:45:59 2008:  
00000030: 19 0f 6f 52 2f a7 c3 00 d4 c8 f0 50 1c 8f 47  
f4 ..oR/.....P..G. Tue Mar 4 16:45:59 2008: 00000040:  
97 1b f2 a0 ca a9 f4 27 0c 34 32 20 d9 33 c4 27  
.....'.42..3.' Tue Mar 4 16:45:59 2008: 00000050: 81  
91 e4 97 d7 a6 6b 03 58 1a 4a c8 6d 4a e7 ef  
.....k.X.J.mJ.. Tue Mar 4 16:45:59 2008: 00000060: 9d  
f8 fd ad c9 95 aa b5 3e f5 1b dc 00 04 00 16  
.....>..... Tue Mar 4 16:45:59 2008: 00000070: 03  
01 07 37 0b 00 07 33 00 07 30 00 03 c2 30 82  
...7...3..0...0. Tue Mar 4 16:45:59 2008: 00000080: 03  
be 30 82 02 a6 a0 03 02 01 02 02 0a 61 0f c8  
..0.....a.. Tue Mar 4 16:45:59 2008: 00000090: d9  
00 00 00 00 00 02 30 0d 06 09 2a 86 48 86 f7  
.....0...\*.H.. Tue Mar 4 16:45:59 2008: 000000a0: 0d  
01 01 05 05 00 30 13 31 11 30 0f 06 03 55 04  
.....0.1.0...U. Tue Mar 4 16:45:59 2008: 000000b0: 03  
13 08 41 41 52 4f 4e 4c 41 42 30 1e 17 0d 30  
...AARONLAB0...0 Tue Mar 4 16:45:59 2008: 000000c0: 38  
30 32 32 39 30 30 30 32 35 30 5a 17 0d 30 39  
80229000250Z..09 Tue Mar 4 16:45:59 2008: 000000d0: 30

```
32 32 38 30 30 31 32 35 30 5a 30 12 31 10 30
0228001250Z0.1.0 Tue Mar 4 16:45:59 2008: 000000e0: 0e
06 03 55 04 03 13 07 41 43 53 63 65 72 74 30
...U....ACScert0 Tue Mar 4 16:45:59 2008: 000000f0: 81
9f 30 0d 06 09 2a 86 48 86 f7 0d 01 01 01 05
..0...*.H..... Tue Mar 4 16:45:59 2008: 00000100: 00
03 81 8d 00 30 81 89 02 81 81 00 e4 cb 25 a1
.....0.....%. Tue Mar 4 16:45:59 2008: 00000110: 96
3f df 4f ff 0d de 8a 89 6f 33 b1 b3 b9 fe 6e
..?.O.....o3....n Tue Mar 4 16:45:59 2008: 00000120: df
6a 01 cf 7f b4 44 5b 6b 4e 91 17 9c 88 d3 6c
.j....D[kN.....l Tue Mar 4 16:45:59 2008: 00000130: 1a
44 5e 1e e7 c1 c5 ae c2 6f e7 ca 63 31 5f 3a
.D^.....o..cl_ Tue Mar 4 16:45:59 2008: 00000140: cf
a9 da 83 0e c8 94 93 35 2e c8 f1 21 b0 78 1c
.....5...!.x. Tue Mar 4 16:45:59 2008: 00000150: a1
ca f7 e9 40 a7 d1 7a f1 85 d6 e9 36 46 51 a7
....@..z....6FQ. Tue Mar 4 16:45:59 2008: 00000160: a7
bf 70 db a7 47 da db 59 69 17 db 06 a3 7e b1
..p..G..Yi....~. Tue Mar 4 16:45:59 2008: 00000170: 3c
e5 ad 39 7f ee 61 cd ab 3e 0e 8a d5 c1 47 d4
<..9..a..>....G. Tue Mar 4 16:45:59 2008: 00000180: 65
62 09 22 f4 75 c5 5b b1 42 94 14 9f c7 02 03
eb."u.[.B..... Tue Mar 4 16:45:59 2008: 00000190: 01
00 01 a3 82 01 97 30 82 01 93 30 0e 06 03 55
.....0...0...U Tue Mar 4 16:45:59 2008: 000001a0: 1d
0f 01 01 ff 04 04 03 02 04 f0 30 44 06 09 2a
.....0D..* Tue Mar 4 16:45:59 2008: 000001b0: 86
48 86 f7 0d 01 09 0f 04 37 30 35 30 0e 06 08
.H.....7050... Tue Mar 4 16:45:59 2008: 000001c0: 2a
86 48 86 f7 0d 03 02 02 02 00 80 30 0e 06 08
*.H.....0... Tue Mar 4 16:45:59 2008: 000001d0: 2a
86 48 86 f7 0d 03 04 02 02 00 80 30 07 06 05
*.H.....0... Tue Mar 4 16:45:59 2008: 000001e0: 2b
0e 03 02 07 30 0a 06 08 2a 86 48 86 f7 0d 03
+....0...*.H... Tue Mar 4 16:45:59 2008: 000001f0: 07
30 1d 06 03 55 1d 0e 04 16 04 14 b3 fe c9 de
.O...U..... Tue Mar 4 16:45:59 2008: 00000200: 52
60 44 c8 9a c2 4a c2 b4 fd 98 2c 8b 39 5a a6
R`D...J.....,9Z. Tue Mar 4 16:45:59 2008: 00000210: 30
13 4f ff 06 03 55 1d 25 04 0c 30 0a 06 08 2b
0.O...U.%.0...+ Tue Mar 4 16:45:59 2008: 00000220: 06
01 05 05 07 03 01 30 1f 06 03 55 1d 23 04 18
.....0...U.#.. Tue Mar 4 16:45:59 2008: 00000230: 30
16 80 14 f0 a4 3a c2 cd f5 d4 c8 b4 5e ee 03
0.....:.....^.. Tue Mar 4 16:45:59 2008: 00000240: 4f
83 79 b1 f2 d4 e0 19 30 5f 06 03 55 1d 1f 04
O.y.....0_.U... Tue Mar 4 16:45:59 2008: 00000250: 58
30 56 30 54 a0 52 a0 50 86 25 68 74 74 70 3a
X0V0T.R.P.%http: Tue Mar 4 16:45:59 2008: 00000260: 2f
2f 77 63 73 77 69 6e 2f 43 65 72 74 45 6e 72
//wswin/CertEnr Tue Mar 4 16:46:00 2008: 00000270: 6f
6c 6c 2f 41 41 52 4f 4e 4c 41 42 2e 63 72 6c
oll/AARONLAB.crl Tue Mar 4 16:46:00 2008: 00000280: 86
27 66 69 6c 65 3a 2f 2f 5c 5c 77 63 73 77 69
.'file://\\wswi Tue Mar 4 16:46:00 2008: 00000290: 6e
5c 43 65 72 74 45 6e 72 6f 6c 6c 5c 41 41 52
n\CertEnroll\AAR Tue Mar 4 16:46:00 2008: 000002a0: 4f
4e 4c 41 42 2e 63 72 6c 30 81 84 06 08 2b 06
ONLAB.crl0....+. Tue Mar 4 16:46:00 2008: 000002b0: 01
05 05 07 01 01 04 78 30 76 30 38 06 08 2b 06
.....x0v08...+. Tue Mar 4 16:46:00 2008: 000002c0: 01
05 05 07 30 02 86 2c 68 74 74 70 3a 2f 2f 77
....0...http://w Tue Mar 4 16:46:00 2008: 000002d0: 63
```

```
73 77 69 6e 2f 43 65 72 74 45 6e 72 6f 6c 6c
cswin/CertEnroll Tue Mar 4 16:46:00 2008: 000002e0: 2f
77 63 73 77 69 6e 5f 41 41 52 4f 4e 4c 41 42
/wcswin_AARONLAB Tue Mar 4 16:46:00 2008: 000002f0: 2e
63 72 74 30 3a 06 08 2b 06 01 05 05 07 30 02
.crt0:..+.....0. Tue Mar 4 16:46:00 2008: 00000300: 86
2e 66 69 6c 65 3a 2f 2f 5c 5c 77 63 73 77 69
..file://\wcswi Tue Mar 4 16:46:00 2008: 00000310: 6e
4f ff 5c 43 65 72 74 45 6e 72 6f 6c 6c 5c 77
no.\CertEnroll\w Tue Mar 4 16:46:00 2008: 00000320: 63
73 77 69 6e 5f 41 41 52 4f 4e 4c 41 42 2e 63
cswin_AARONLAB.c Tue Mar 4 16:46:00 2008: 00000330: 72
74 30 0d 06 09 2a 86 48 86 f7 0d 01 01 05 05
rt0...*.H..... Tue Mar 4 16:46:00 2008: 00000340: 00
03 82 01 01 00 67 35 f2 80 42 b5 a8 be f7 c4
.....g5..B..... Tue Mar 4 16:46:00 2008: 00000350: 9b
ea 19 10 67 39 78 cb 38 fb 36 15 69 2a f0 80
....g9x.8.6.i*.. Tue Mar 4 16:46:00 2008: 00000360: 1e
a1 7d 63 72 6a e0 7e d4 51 7a 1d 64 ec ee b5
..}crj.~.Qz.d... Tue Mar 4 16:46:00 2008: 00000370: 2a
73 dc b0 d1 eb 0f 28 1d 66 7a bc 12 ef d8 61
*s.....(.fz....a Tue Mar 4 16:46:00 2008: 00000380: 5d
05 7b 81 0f 57 20 4d 49 37 4d ba 0b 5a 96 65
].{..W.MI7M..Z.e Tue Mar 4 16:46:00 2008: 00000390: d6
a8 e1 bb 1f c6 0e 27 4c 4b d6 3a 00 c7 8d 83
.....'LK.:.... Tue Mar 4 16:46:00 2008: 000003a0: 22
a5 29 61 36 19 19 33 f2 41 18 f7 c6 42 23 36
".)a6..3.A...B#6 Tue Mar 4 16:46:00 2008: 000003b0: 92
66 4a d9 ef fa 32 d7 a5 0a df 47 50 3c 72 23
.fJ...2....GP<r# Tue Mar 4 16:46:00 2008: 000003c0: f0
0a d5 59 eb a8 79 f2 e0 56 a0 97 91 48 60 31
...Y..y..V...H`1 Tue Mar 4 16:46:00 2008: 000003d0: 56
8d 2f b2 69 45 e5 44 3a 59 13 dd 66 eb c7 58
V./.iE.D:Y..f..X Tue Mar 4 16:46:00 2008: 000003e0: 35
90 7c 79 69 ee dc 6e 19 68 b3 c3 4c ba 7d b3
5.|yi..n.h..L.}. Tue Mar 4 16:46:00 2008: 000003f0: 8f
a0 b9 e0 cf df 67 93 6f 01 d4 34 33 86 b6 95
.....g.o..43... Tue Mar 4 16:46:00 2008: 00000400: 77
1b 19 61 34 46 82 4c 8e 6b b4 6b e2 4a c1 20
w..a4F.L.k.k.J.. Tue Mar 4 16:46:00 2008: 00000410: 18
1d 45 41 50 3d 30 2e 32 30 32 2e 32 37 65 61
..EAP=0.202.27ea Tue Mar 4 16:46:00 2008: 00000420: 2e
32 3b 53 56 43 3d 30 2e 36 34 37 3b 50 12 3a
.2;SVC=0.647;P.: Tue Mar 4 16:46:00 2008: 00000430: f3
3b 7f 99 45 f4 e6 a6 29 c4 17 51 ce 97 df
./..E...).Q... Tue Mar 4 16:46:00 2008: ****Enter
processIncomingMessages: response code=11 Tue Mar 4
16:46:00 2008: ****Enter processRadiusResponse: response
code=11 Tue Mar 4 16:46:00 2008: 00:19:56:b0:7e:b6
Access-Challenge received from RADIUS server 10.0.47.42
for mobile 00:19:56:b0: 7e:b6 receiveId = 7 Tue Mar 4
16:46:00 2008: 00:19:56:b0:7e:b6 Processing Access-
Challenge for mobile 00:19:56:b0:7e:b6 Tue Mar 4
16:46:00 2008: 00:19:56:b0:7e:b6 Entering Backend Auth
Req state (id=178) for mobile 00:19:56:b0:7e:b6 Tue Mar
4 16:46:00 2008: 00:19:56:b0:7e:b6 Sending EAP Request
from AAA to mobile 00:19:56:b0:7e:b6 (EAP Id 178) Tue
Mar 4 16:46:00 2008: 00:19:56:b0:7e:b6 Received EAPOL
EAPPKT from mobile 00:19:56:b0:7e:b6 Tue Mar 4 16:46:00
2008: 00:19:56:b0:7e:b6 Received EAP Response from
mobile 00:19:56:b0:7e:b6 (EAP Id 178, EAP Type 13) Tue
Mar 4 16:46:00 2008: 00:19:56:b0:7e:b6 Entering Backend
Auth Response state for mobile 00:19:56:b0:7e:b6 Tue Mar
4 16:46:00 2008: 00:19:56:b0:7e:b6 Successful
```

transmission of Authentication Packet (id 20) to  
10.0.47.42:1812, proxy state 00:19:56:b0:7e:b6-00:00 Tue  
Mar 4 16:46:00 2008: 00000000: 01 14 00 b7 e8 b0 94 59  
96 a1 7f e5 af 22 0f 6c .....Y.....".l Tue Mar 4  
16:46:00 2008: 00000010: 1e 33 6e ee 01 05 57 47 42 1f  
13 30 30 2d 31 39 .3n...WGB..00-19 Tue Mar 4 16:46:00  
2008: 00000020: 2d 35 36 2d 42 30 2d 37 45 2d 42 36 1e  
1a 30 30 -56-B0-7E-B6..00 Tue Mar 4 16:46:00 2008:  
00000030: 2d 31 39 2d 41 39 2d 34 32 2d 45 34 2d 31 30  
3a -19-A9-42-E4-10: Tue Mar 4 16:46:00 2008: 00000040:  
45 41 50 54 4c 53 05 06 00 00 00 04 04 06 0a 00  
EAPTLS..... Tue Mar 4 16:46:00 2008: 00000050: 2f  
06 20 10 74 75 63 73 6f 6e 2d 77 6c 63 32 30 /...tucson-  
wlc20 Tue Mar 4 16:46:00 2008: 00000060: 30 36 1a 0c 00  
00 37 63 01 06 00 00 00 06 06 06 06....7c..... Tue  
Mar 4 16:46:00 2008: 00000070: 00 00 00 02 0c 06 00 00  
05 14 3d 06 00 00 00 13 .....=..... Tue Mar 4  
16:46:00 2008: 00000080: 4f 08 02 b2 00 06 0d 00 18 1d  
45 41 50 3d 30 2e O.....EAP=0. Tue Mar 4 16:46:00  
2008: 00000090: 32 30 32 2e 32 37 65 61 2e 32 3b 53 56  
43 3d 30 202.27ea.2;SVC=0 Tue Mar 4 16:46:00 2008:  
000000a0: 2e 36 34 37 3b 50 12 a2 aa c7 ed 12 84 25 db  
4b .647;P.....%.K Tue Mar 4 16:46:00 2008: 000000b0:  
4c dc 45 09 06 44 c6 L.E..D. Tue Mar 4 16:46:00 2008:  
00000000: 0b 14 04 04 6b 98 3a 74 12 1f 77 54 77 d8 a8  
77 ....k.:t..wTw..w Tue Mar 4 16:46:00 2008: 00000010:  
4e a8 a7 6b 4f ff 01 b3 03 b9 0d 00 c6 87 1d b6  
N..kO..... Tue Mar 4 16:46:00 2008: 00000020: 06  
5b 24 67 26 09 ee 5f 9c 64 f3 a9 c1 99 49 3e  
.[ \$g&...d...I> Tue Mar 4 16:46:00 2008: 00000030: 2b  
79 f1 57 17 65 6c 2f c4 09 4d 54 7d a4 67 91  
+y.W.el/..MT}.g. Tue Mar 4 16:46:00 2008: 00000040: 48  
59 ec aa 68 5b 0f 66 c5 e9 22 a6 09 8d 36 cf  
HY..h[.f.."...6. Tue Mar 4 16:46:00 2008: 00000050: e3  
d9 00 03 68 30 82 03 64 30 82 02 4c a0 03 02  
....h0..d0..L... Tue Mar 4 16:46:00 2008: 00000060: 01  
02 02 10 61 26 83 24 8d ba 53 9b 44 b0 39 bd  
....a&\$.S.D.9. Tue Mar 4 16:46:00 2008: 00000070: 51  
cd 1d 48 30 0d 06 09 2a 86 48 86 f7 0d 01 01  
Q..H0...\*.H.... Tue Mar 4 16:46:00 2008: 00000080: 05  
05 00 30 13 31 11 30 0f 06 03 55 04 03 13 08  
...0.1.0...U.... Tue Mar 4 16:46:00 2008: 00000090: 41  
41 52 4f 4e 4c 41 42 30 1e 17 0d 30 38 30 32  
AARONLAB0...0802 Tue Mar 4 16:46:00 2008: 000000a0: 32  
38 32 33 33 34 34 38 5a 17 0d 31 38 30 32 32  
28233448Z..18022 Tue Mar 4 16:46:00 2008: 000000b0: 38  
32 33 34 31 32 35 5a 30 13 31 11 30 0f 06 03  
8234125Z0.1.0... Tue Mar 4 16:46:00 2008: 000000c0: 55  
04 03 13 08 41 41 52 4f 4e 4c 41 42 30 82 01  
U...AARONLAB0.. Tue Mar 4 16:46:00 2008: 000000d0: 22  
30 0d 06 09 2a 86 48 86 f7 0d 01 01 01 05 00  
"0...\*.H..... Tue Mar 4 16:46:00 2008: 000000e0: 03  
82 01 0f 00 30 82 01 0a 02 82 01 01 00 c8 5a  
.....0.....Z Tue Mar 4 16:46:00 2008: 000000f0: 57  
75 45 19 4a 8b 99 da 35 6c cb e0 b6 a0 ff 66  
WuE.J...5l.....f Tue Mar 4 16:46:00 2008: 00000100: e2  
8f c1 44 89 09 32 13 c7 d8 70 6c 6d 74 2d e5  
...D..2...plmt-. Tue Mar 4 16:46:00 2008: 00000110: 89  
b8 23 4f ff ea 0a 0e 2d 57 1b 62 36 05 90 92 ..#0....-  
W.b6... Tue Mar 4 16:46:00 2008: 00000120: e0 ea f9 a3  
e2 fb 54 87 f4 cf 69 52 86 be 0b ca .....T...iR.... Tue  
Mar 4 16:46:00 2008: 00000130: 14 d1 88 9d 82 01 9a f7  
08 da ba cc c9 29 37 94 .....7. Tue Mar 4  
16:46:00 2008: 00000140: 27 75 d4 6e ae 9e 60 06 84 94

9b 42 f6 c7 5e e0 'u.n..`....B..^. Tue Mar 4 16:46:00  
2008: 00000150: 29 34 b3 06 cb 24 b1 39 73 84 ba be ba  
d8 6f bb )4...\$.9s.....o. Tue Mar 4 16:46:00 2008:  
00000160: 94 f9 32 36 d6 68 68 f2 b2 43 e6 0e a9 b6 4b  
62 ..26.hh..C....Kb Tue Mar 4 16:46:00 2008: 00000170:  
b8 f9 6e 47 dc 0e c5 5b 16 a3 94 e9 96 08 e5 18  
..nG...[..... Tue Mar 4 16:46:00 2008: 00000180: f0  
38 ad a2 98 d3 7c 73 39 80 4a ae 14 e3 f8 f7  
..8....|s9.J..... Tue Mar 4 16:46:00 2008: 00000190: 1e  
14 27 bb 6a ce a1 2a dc 18 66 59 ea b4 d9 b1  
..'j...\*.fy.... Tue Mar 4 16:46:00 2008: 000001a0: a7  
50 e9 ff 56 09 ea 93 df 31 08 09 17 ab e5 e9  
..P..V....1..... Tue Mar 4 16:46:00 2008: 000001b0: 80  
90 30 95 e4 54 90 75 bc f0 7f 13 b1 e7 cd 0b  
..0..T.u..... Tue Mar 4 16:46:00 2008: 000001c0: 88  
33 81 e7 74 d2 81 d9 97 ab b2 57 f4 5f f6 8b  
..3..t.....W.\_. Tue Mar 4 16:46:00 2008: 000001d0: 1e  
c2 62 d4 de 94 74 7f 8a 28 3b 64 73 88 86 28  
..b...t...(;ds..( Tue Mar 4 16:46:00 2008: 000001e0: 92  
74 b0 92 94 7e ce e1 74 23 f2 64 da 9a 88 47  
..t...~...t#.d...G Tue Mar 4 16:46:00 2008: 000001f0: 02  
03 01 00 01 a3 81 b3 30 81 b0 30 0b 06 03 55  
.....0..0...U Tue Mar 4 16:46:00 2008: 00000200: 1d  
0f 04 04 03 02 01 86 30 0f 06 03 55 1d 13 01  
.....0...U... Tue Mar 4 16:46:00 2008: 00000210: 01  
ff 4f ff 04 05 30 03 01 01 ff 30 1d 06 03 55  
..O...0....0...U Tue Mar 4 16:46:00 2008: 00000220: 1d  
0e 04 16 04 14 f0 a4 3a c2 cd f5 d4 c8 b4 5e  
.....:.....^ Tue Mar 4 16:46:00 2008: 00000230: ee  
03 4f 83 79 b1 f2 d4 e0 19 30 5f 06 03 55 1d  
..O.y.....0\_..U. Tue Mar 4 16:46:00 2008: 00000240: 1f  
04 58 30 56 30 54 a0 52 a0 50 86 25 68 74 74  
..X0V0T.R.P.%htt Tue Mar 4 16:46:00 2008: 00000250: 70  
3a 2f 2f 77 63 73 77 69 6e 2f 43 65 72 74 45  
p://wcswin/CertE Tue Mar 4 16:46:00 2008: 00000260: 6e  
72 6f 6c 6c 2f 41 41 52 4f 4e 4c 41 42 2e 63  
nroll/AARONLAB.c Tue Mar 4 16:46:00 2008: 00000270: 72  
6c 86 27 66 69 6c 65 3a 2f 2f 5c 5c 77 63 73  
rl.'file://\\wcs Tue Mar 4 16:46:00 2008: 00000280: 77  
69 6e 5c 43 65 72 74 45 6e 72 6f 6c 6c 5c 41  
win\CertEnroll\A Tue Mar 4 16:46:00 2008: 00000290: 41  
52 4f 4e 4c 41 42 2e 63 72 6c 30 10 06 09 2b  
ARONLAB.crl0...+ Tue Mar 4 16:46:00 2008: 000002a0: 06  
01 04 01 82 37 15 01 04 03 02 01 00 30 0d 06  
.....7.....0.. Tue Mar 4 16:46:00 2008: 000002b0: 09  
2a 86 48 86 f7 0d 01 01 05 05 00 03 82 01 01  
.\*.H..... Tue Mar 4 16:46:00 2008: 000002c0: 00  
17 eb b2 43 da 02 66 05 cd 76 c0 7b 2a 16 83  
....C..f..v.{\*.. Tue Mar 4 16:46:00 2008: 000002d0: 95  
bb 5e bf d3 db fc 23 7e 14 6e 52 f8 37 01 7c  
..^. ....#~.nR.7.| Tue Mar 4 16:46:00 2008: 000002e0: dd  
e9 bf 34 60 49 f1 68 7e da 53 07 f6 b2 66 6d  
...4`I.h~.S...fm Tue Mar 4 16:46:00 2008: 000002f0: 8c  
bd ca 26 f4 fa 3d 03 4f db be 92 33 7e 50 06  
...&...=.O...3~P. Tue Mar 4 16:46:00 2008: 00000300: 5e  
b3 b9 35 c6 83 3c 90 1e 42 54 3e 63 17 9a 8a  
^..5...<.BT>c... Tue Mar 4 16:46:00 2008: 00000310: d0  
4f c4 68 24 97 90 a1 77 c9 c8 93 1f 58 ab ca  
..O.h\$.w...X.. Tue Mar 4 16:46:00 2008: 00000320: f7  
18 e6 8c 36 12 44 9d a6 ca 43 5f 03 07 16 99  
....6.D...C\_.... Tue Mar 4 16:46:00 2008: 00000330: 1d  
a4 48 7d a4 e5 12 7c d0 81 e7 35 9e ad 69 5e  
..H}...|...5..i^ Tue Mar 4 16:46:00 2008: 00000340: 15  
d7 2a 7f 51 4e 8c 59 69 9f d1 41 9b 2e e1 05

```
..*.QN.Yi..A.... Tue Mar 4 16:46:00 2008: 00000350: 95
15 bd b1 1a 97 a6 69 d3 9c 0b 93 00 16 e1 49
.....i.....I Tue Mar 4 16:46:00 2008: 00000360: 66
e3 98 29 79 ba 14 69 cf 76 27 69 7d 43 d0 f4
f..)y..i.v'i}C.. Tue Mar 4 16:46:00 2008: 00000370: 86
3c 6b 58 55 d4 85 be c5 da 71 e4 43 76 3d 0a
.<kXU.....q.Cv=. Tue Mar 4 16:46:00 2008: 00000380: d3
4f 49 97 12 75 e3 7d 88 92 99 5d fc 7a 69 28
.OI..u.}...].zi( Tue Mar 4 16:46:00 2008: 00000390: f6
f0 20 70 33 b7 22 5a bf c5 e5 28 43 35 00 2f
...p3."Z...(C5./ Tue Mar 4 16:46:00 2008: 000003a0: 47
46 9a 5a 45 5c 56 d5 24 3d 44 bf e9 63 f2 05
GF.ZE\V.$=D..c.. Tue Mar 4 16:46:01 2008: 000003b0: 84
da 94 17 b7 ef c3 31 7d 04 30 87 e1 c3 31 8a
.....1}.0...1. Tue Mar 4 16:46:01 2008: 000003c0: 2a
e1 52 16 03 01 00 0d 0d 00 00 05 02 01 02 00
*.R..... Tue Mar 4 16:46:01 2008: 000003d0: 00
0e 00 00 00 18 1d 45 41 50 3d 30 2e 32 30 32
.....EAP=0.202 Tue Mar 4 16:46:01 2008: 000003e0: 2e
32 37 65 61 2e 33 3b 53 56 43 3d 30 2e 36 34
.27ea.3;SVC=0.64 Tue Mar 4 16:46:01 2008: 000003f0: 37
3b 50 12 05 0e 3c e0 e4 5f 38 21 96 26 8e 39
7;P...<..._8!.&.9 Tue Mar 4 16:46:01 2008: 00000400: 96
a9 09 5d...] Tue Mar 4 16:46:01 2008: ****Enter
processIncomingMessages: response code=11 Tue Mar 4
16:46:01 2008: ****Enter processRadiusResponse: response
code=11 Tue Mar 4 16:46:01 2008: 00:19:56:b0:7e:b6
Access-Challenge received from RADIUS server 10.0.47.42
for mobile 00:19:56:b0: 7e:b6 receiveId = 7 Tue Mar 4
16:46:01 2008: 00:19:56:b0:7e:b6 Processing Access-
Challenge for mobile 00:19:56:b0:7e:b6 Tue Mar 4
16:46:01 2008: 00:19:56:b0:7e:b6 Entering Backend Auth
Req state (id=179) for mobile 00:19:56:b0:7e:b6 Tue Mar
4 16:46:01 2008: 00:19:56:b0:7e:b6 Sending EAP Request
from AAA to mobile 00:19:56:b0:7e:b6 (EAP Id 179) Tue
Mar 4 16:46:01 2008: 00:19:56:b0:7e:b6 Received EAPOL
EAPPKT from mobile 00:19:56:b0:7e:b6 Tue Mar 4 16:46:01
2008: 00:19:56:b0:7e:b6 Received EAP Response from
mobile 00:19:56:b0:7e:b6 (EAP Id 179, EAP Type 13) Tue
Mar 4 16:46:01 2008: 00:19:56:b0:7e:b6 Entering Backend
Auth Response state for mobile 00:19:56:b0:7e:b6 Tue Mar
4 16:46:01 2008: 00:19:56:b0:7e:b6 Successful
transmission of Authentication Packet (id 21) to
10.0.47.42:1812, proxy state 00:19:56:b0:7e:b6-00:00 Tue
Mar 4 16:46:01 2008: 00000000: 01 15 05 76 81 b7 fa 95
63 1f 50 6f 98 4d a3 6b ...v....c.Po.M.k Tue Mar 4
16:46:01 2008: 00000010: db 3c bc 1d 01 05 57 47 42 1f
13 30 30 2d 31 39 .<...WGB..00-19 Tue Mar 4 16:46:01
2008: 00000020: 2d 35 36 2d 42 30 2d 37 45 2d 42 36 1e
1a 30 30 -56-B0-7E-B6..00 Tue Mar 4 16:46:01 2008:
00000030: 2d 31 39 2d 41 39 2d 34 32 2d 45 34 2d 31 30
3a -19-A9-42-E4-10: Tue Mar 4 16:46:01 2008: 00000040:
45 41 50 54 4c 53 05 06 00 00 00 04 04 06 0a 00
EAPTLS..... Tue Mar 4 16:46:01 2008: 00000050: 2f
06 20 10 74 75 63 73 6f 6e 2d 77 6c 63 32 30 /...tucson-
wlc20 Tue Mar 4 16:46:01 2008: 00000060: 30 36 1a 0c 00
00 37 63 01 06 00 00 00 06 06 06 06....7c..... Tue
Mar 4 16:46:01 2008: 00000070: 00 00 00 02 0c 06 00 00
05 14 3d 06 00 00 00 13 .....=..... Tue Mar 4
16:46:01 2008: 00000080: 4f ff 02 b3 04 bd 0d 80 00 00
04 b3 16 03 01 03 o..... Tue Mar 4 16:46:01
2008: 00000090: 6d 0b 00 03 69 00 03 66 00 03 63 30 82
03 5f 30 m...i..f..c0.._0 Tue Mar 4 16:46:01 2008:
000000a0: 82 02 47 a0 03 02 01 02 02 0a 13 79 b0 72 00
```

00 ..G.....y.r.. Tue Mar 4 16:46:01 2008: 000000b0:  
00 00 00 0c 30 0d 06 09 2a 86 48 86 f7 0d 01 01  
....0...\*.H.... Tue Mar 4 16:46:01 2008: 000000c0: 05  
05 00 30 13 31 11 30 0f 06 03 55 04 03 13 08  
...0.1.0...U.... Tue Mar 4 16:46:01 2008: 000000d0: 41  
41 52 4f 4e 4c 41 42 30 1e 17 0d 30 38 30 33  
AARONLAB0...0803 Tue Mar 4 16:46:01 2008: 000000e0: 30  
33 31 38 33 33 30 39 5a 17 0d 30 39 30 33 30  
03183309Z..09030 Tue Mar 4 16:46:01 2008: 000000f0: 33  
31 38 34 33 30 39 5a 30 0e 31 0c 30 0a 06 03  
3184309Z0.1.0... Tue Mar 4 16:46:01 2008: 00000100: 55  
04 03 13 03 57 47 42 30 81 9f 30 0d 06 09 2a  
U....WGB0..0...\* Tue Mar 4 16:46:01 2008: 00000110: 86  
48 86 f7 0d 01 01 01 05 00 03 81 8d 00 30 81  
.H.....0. Tue Mar 4 16:46:01 2008: 00000120: 89  
02 81 81 00 a6 34 91 20 dd 58 df b2 60 c0 6c  
.....4...X..`l Tue Mar 4 16:46:01 2008: 00000130: d0  
9d 10 86 01 a9 61 9f cb 2b 01 22 49 d7 38 ee  
.....a..+."I.8. Tue Mar 4 16:46:01 2008: 00000140: 00  
fe be c9 cd 48 4b 73 a0 75 6d bb d0 c9 20 24  
....HKs.um....\$ Tue Mar 4 16:46:01 2008: 00000150: 0f  
cc f0 76 2f ad ef 43 53 8f b7 ec c7 50 04 02  
...v/..CS....P.. Tue Mar 4 16:46:01 2008: 00000160: d8  
03 4a 7d 08 9e b4 f2 78 ab 36 06 ba f7 02 ab  
..J}....x.6.... Tue Mar 4 16:46:01 2008: 00000170: a1  
6e 26 6c 2d d4 10 08 0d 25 82 1a d2 fc 14 4f .n&l-  
....%.O Tue Mar 4 16:46:01 2008: 00000180: ff 86 fa  
fd 84 ec de be 3c 3e f8 be d6 b6 7b 81 .....<>....{.  
Tue Mar 4 16:46:01 2008: 00000190: 89 9a da a6 96 fd 7f  
e7 dd bf 7f 26 6e 20 03 63 .....&n..c Tue Mar 4  
16:46:01 2008: 000001a0: c4 a2 56 4c 8e 75 99 02 03 01  
00 01 a3 82 01 3c ..VL.u.....< Tue Mar 4 16:46:01  
2008: 000001b0: 30 82 01 38 30 0e 06 03 55 1d 0f 01 01  
ff 04 04 0..80...U..... Tue Mar 4 16:46:01 2008:  
000001c0: 03 02 05 a0 30 1d 06 03 55 1d 0e 04 16 04 14  
41 ....0...U.....A Tue Mar 4 16:46:01 2008: 000001d0:  
97 b6 32 83 7f c0 88 11 4d 59 d5 44 70 e9 0f c6  
..2.....MY.Dp... Tue Mar 4 16:46:01 2008: 000001e0: 3b  
a2 85 30 1f 06 03 55 1d 23 04 18 30 16 80 14  
;.0...U.#..0... Tue Mar 4 16:46:01 2008: 000001f0: f0  
a4 3a c2 cd f5 d4 c8 b4 5e ee 03 4f 83 79 b1  
...:.....^..O.y. Tue Mar 4 16:46:01 2008: 00000200: f2  
d4 e0 19 30 5f 06 03 55 1d 1f 04 58 30 56 30  
....0...U...X0V0 Tue Mar 4 16:46:01 2008: 00000210: 54  
a0 52 a0 50 86 25 68 74 74 70 3a 2f 2f 77 63  
T.R.P.%http://wc Tue Mar 4 16:46:01 2008: 00000220: 73  
77 69 6e 2f 43 65 72 74 45 6e 72 6f 6c 6c 2f  
swin/CertEnroll/ Tue Mar 4 16:46:01 2008: 00000230: 41  
41 52 4f 4e 4c 41 42 2e 63 72 6c 86 27 66 69  
AARONLAB.crl.'fi Tue Mar 4 16:46:01 2008: 00000240: 6c  
65 3a 2f 2f 5c 5c 77 63 73 77 69 6e 5c 43 65  
le://\\wcswin\Ce Tue Mar 4 16:46:01 2008: 00000250: 72  
74 45 6e 72 6f 6c 6c 5c 41 41 52 4f 4e 4c 41  
rtEnroll\AARONLA Tue Mar 4 16:46:01 2008: 00000260: 42  
2e 63 72 6c 30 81 84 06 08 2b 06 01 05 05 07  
B.crl0....+..... Tue Mar 4 16:46:01 2008: 00000270: 01  
01 04 78 30 76 30 38 06 08 2b 06 01 05 4f ff  
...x0v08...+...O. Tue Mar 4 16:46:01 2008: 00000280: 05  
07 30 02 86 2c 68 74 74 70 3a 2f 2f 77 63 73  
..0...,http://wcs Tue Mar 4 16:46:01 2008: 00000290: 77  
69 6e 2f 43 65 72 74 45 6e 72 6f 6c 6c 2f 77  
win/CertEnroll/w Tue Mar 4 16:46:01 2008: 000002a0: 63  
73 77 69 6e 5f 41 41 52 4f 4e 4c 41 42 2e 63  
cswin\_AARONLAB.c Tue Mar 4 16:46:01 2008: 000002b0: 72

```
74 30 3a 06 08 2b 06 01 05 05 07 30 02 86 2e
rt0:..+.....0... Tue Mar 4 16:46:01 2008: 000002c0: 66
69 6c 65 3a 2f 2f 5c 5c 77 63 73 77 69 6e 5c
file://\\wswin\ Tue Mar 4 16:46:01 2008: 000002d0: 43
65 72 74 45 6e 72 6f 6c 6c 5c 77 63 73 77 69
CertEnroll\wswi Tue Mar 4 16:46:01 2008: 000002e0: 6e
5f 41 41 52 4f 4e 4c 41 42 2e 63 72 74 30 0d
n_AARONLAB.crt0. Tue Mar 4 16:46:01 2008: 000002f0: 06
09 2a 86 48 86 f7 0d 01 01 05 05 00 03 82 01
..*.H..... Tue Mar 4 16:46:01 2008: 00000300: 01
00 2e a1 3f f3 52 52 97 b5 83 43 0f 61 20 64
....?.RR...C.a.d Tue Mar 4 16:46:01 2008: 00000310: 40
fd d3 16 38 4f d9 5f 64 94 a7 c2 59 53 53 52
@...80._d...YSSR Tue Mar 4 16:46:01 2008: 00000320: 90
5d ee 1c e0 2a 90 af f4 e8 51 3e 87 38 9a ce
.]...*....Q>.8.. Tue Mar 4 16:46:01 2008: 00000330: 88
0c 4f 1f ad f1 ef dd 96 44 6b 51 4e 9f 2c a1
..O.....DkQN.,. Tue Mar 4 16:46:01 2008: 00000340: 8a
c5 0e bd d0 f9 7e 34 fa 22 67 26 e1 26 e6 3e
.....~4."g&.&.> Tue Mar 4 16:46:01 2008: 00000350: bd
b8 9f 64 f0 65 6f 23 f0 67 40 60 0f 4b f1 ff
...d.eo#.g@`.K.. Tue Mar 4 16:46:01 2008: 00000360: c1
9c 3c 11 81 be b2 7a 45 b6 bd f2 26 76 2a 3a
..<....zE...&v*: Tue Mar 4 16:46:01 2008: 00000370: 52
32 65 cf 62 0b 47 65 b4 b5 fa db b4 4f ff 07
R2e.b.Ge.....O.. Tue Mar 4 16:46:01 2008: 00000380: ae
54 58 11 d8 52 8f f8 e3 e5 00 f1 c4 1d 2a a4
.TX..R.....*.
```

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