

# **HP-UX AAA Server A.06.01.02.04 Release Notes**

**HP-UX 11.00 and 11i Version 1**

**[www.docs.hp.com](http://www.docs.hp.com)**



**Manufacturing Part Number : T1428-90041  
E1003**

U.S.A.

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## **HP-UX AAA Server A.06.01.02.04**

The information in this document is for the HP-UX AAA Server A.06.01.02.04 only.

## Product Overview

The HP-UX AAA Server utilizes the industry standard Remote Authentication Dial-In User Service (RADIUS) protocol to provide user-based authentication, authorization and accounting of network access. At the network entry point, the HP-UX AAA Server provides:

- authentication for network access devices
- authorization of user access
- accounting (access) log files of that can be utilized by billing and accounting applications

The HP-UX AAA Server supports RADIUS and EAP (Extensible Authentication Protocol) over RADIUS compliant devices including:

- Network Access Servers (NAS)
- LAN switches \*
- LAN hubs \*
- Wireless LAN (WLAN) access points \*

*\* Note: device must be RADIUS/EAP enabled*

Merit (default) and Livingston accounting style formats are supported to ensure interoperability with a wide variety of billing and mediation applications. Store account information in any of the following repositories for users accessing the network through the HP-UX AAA Server:

- local AAA server configuration files
- LDAP version 3 compliant directories \*\*
- Oracle 8.1.7 databases \*\*

*\*\* AAA server offers support for authentication request load balancing and failover*

The HP-UX AAA Server also includes the following features:

- DHCP support for centralized administration of IP Address assignment
- SNMP support for effective management
- web-based administration with Server Manager graphic user interface
- session management capabilities
- full set of support utilities

## Product Documentation

In addition to these Release Notes, HP provides the following two guides to support the HP-UX AAA Server A.06.01.02.04:

- *HP-UX AAA Server A.06.01 Getting Started Guide* (MPN #T1428-90043)
  - Product and Technology Overview
  - Installation
  - Task Introductions
- *HP-UX AAA Server A.06.01 Administrator's Guide* (MPN #T1428-90042)
  - Administering HP-UX AAA Servers
  - Managing and Authenticating Users
  - Troubleshooting
  - Reference

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**NOTE** The Getting Started Guide is to guide you through the initial set-up and configuration. Start with this introductory guide to install and become familiar with the product. The Administrator's Guide contains complete product documentation. Refer to this guide after using the Getting Started Guide to install and become familiar with the product.

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You can find the Getting Started Guide, Administrator's Guide, and HP-UX AAA Server documentation at the following locations:

- the product directories in `/opt/aaa/share/doc/`
- the Server Manager interface Help system
- the HP Technical Documentation website on the Internet and Security Solutions page at: <http://www.docs.hp.com>

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**IMPORTANT** Monitor <http://www.docs.hp.com> for the most recently released product documentation.

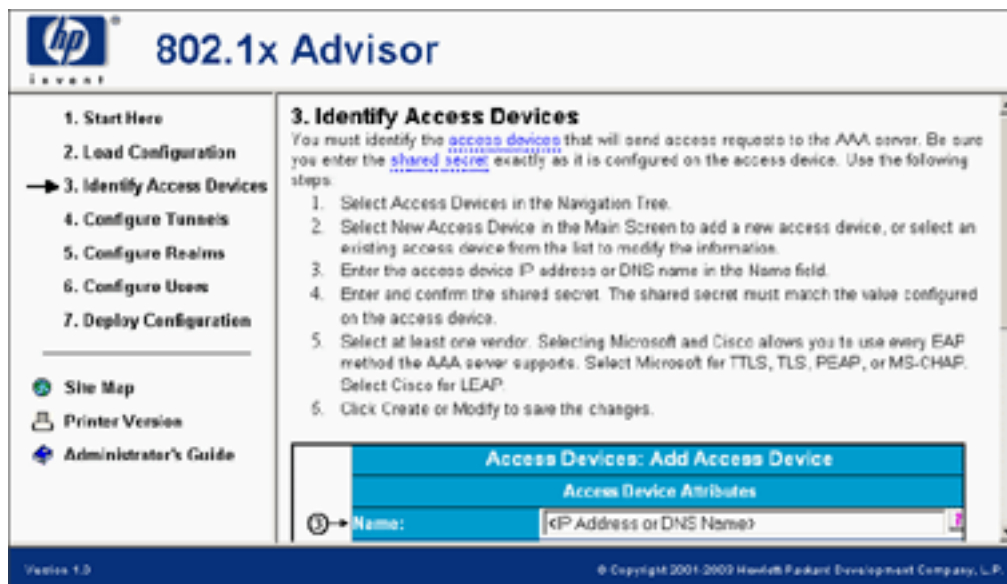
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## Wireless-LAN Documentation—The 802.1x Advisor

The 802.1x Advisor is an HTML tutorial/help system in the Server Manager GUI that walks-you-through the tasks and Server Manager screens for securing WLANs with the HP-UX AAA Server. The 802.1x Advisor provides information only—it does not edit configuration files. Follow the 802.1x Advisor and use Server Manager to create and deploy basic AAA configurations for securing WLANs. Refer to the HP-UX AAA Server Administrator's Guide for complete HP-UX AAA Server documentation.

The following graphic shows the 802.1x Advisor used to quickly secure WLANs with the HP-UX AAA Server:

**Figure 1**                    **The 802.1x Advisor For Securing WLANs**



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## What's New in the HP-UX AAA Server A.06.01.02.04

The following is a list of what's new in the HP-UX AAA Server A.06.01.02.04:

- A.06.01.02.04 is built with the OpenSSL Version 0.9.7b+p1 library, resolving a defect (JAGae93798) related to various ASN.1 tag handling problems.

## Changes to the HP-UX AAA Server Product as of Version A.06.01.02

The information in this section is a reminder of the content in the previous HP-UX AAA Server release—version A.06.01.02. Review the *HP-UX AAA Server A.06.01.02 Release Notes* at <http://www.docs.hp.com> for more information on version A.06.01.02.

The following is a list of the new features in the HP-UX AAA Server A.06.01.02:

- Support for EAP-TLS, EAP-TTLS, PEAP, EAP-MSCHAP, and EAP-GTC
- DHCP Interface for IP Address Management
- 8021.x Advisor help system in Server Manager interface to facilitate WLAN configuration
- “Self-signed” AAA server digital certificates created during installation for deploying a secured EAP-TTLS and PEAP environment without having to generate your own digital certificates.

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**NOTE** The `sesstab` and `radrecord` command line utilities are no longer supported from the command line, however, the functionality is still available through the Server Manager interface.

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The following is a list of defects fixed in the A.06.01.02:

- When an accounting request for a user without a realm arrives, an inaccurate logfile message (“user realm not configured”) is logged. (JAGae81059)
- AAA server performs highest level of debug logging when it receives a non-RADIUS (vendor-specific) packet type. (JAGae79140)
- Server Manager deletes Tokenpool names in `/etc/opt/aaa/authfile` when modifying realm entries. (JAGae51823)
- Server Manager cannot modify manually added BIN/CIS options for realm entries in `/etc/opt/aaa/authfile`. (JAGae51825)

## Compatibility Information and Installation Requirements

The information in this section lists the requirements needed to install and run the HP-UX AAA Server A.06.01.02.04, including the following:

- Hardware Requirements
- Operating System Requirements
- Product Dependencies
- Patch Dependencies
- Web Browser Requirements
- LDAP Compatibility

### Hardware Requirements

- HP 9000 Computers
- minimum of 128 MB memory
- 5 GB disk space

### Operating System Requirements

- HP-UX 11.0 (32 or 64 bit)
- HP-UX 11i version 1 (32 or 64 bit)

### Product Dependencies

You must have the following product dependencies installed on your system to use the HP-UX AAA Server:

- HP-UX SDK for Java version 1.4.1.x or higher (product #T1456AA)
- HP-UX Tomcat-based Serverlet Engine 1.0.03.x or higher
- HP-UX Apache-based Web Server version 1.0.03.x or higher

The Tomcat and Apache dependencies are both components of the HP-UX Apache Web Server Suite 1.0.03.x (product # HPUXWSSUITE). You do not need the Webmin-based Admin component of the Web Server Suite for the HP-UX AAA Server.

You can get the HP-UX SDK for Java version 1.4.1.x at:  
<http://www.hp.com/products1/unix/java/index.html>

You can get the Tomcat and Apache components of the Web Server Suite at:  
<http://software.hp.com/>

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**NOTE** HP recommends upgrading to the latest version of the Tomcat-based Servlet Engine and Apache-based Web Server that is available. Using the latest version available will keep you current with bug fixes and enhancements.

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## Patch Dependencies

You must have the following patch dependencies installed on your system to use the HP-UX AAA Server A.06.01.02.04. Both patches are available at:

[ftp://us-ffs.external.hp.com/hp-ux\\_patches/s700\\_800/11.X/](ftp://us-ffs.external.hp.com/hp-ux_patches/s700_800/11.X/)

**Table 1 Patch Dependencies for HP-UX AAA Server A.06.01.02.04**

HP-UX 11.00	HP-UX 11i Version 1 (11.11)
PHSS_26945	PHSS_26946

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**NOTE** HP strongly recommends installing Hardware Enablement Patch B.11.00.0209.5 or higher for HP-UX 11.00. You can get this patch at [http://www.software.hp.com/SUPPORT\\_PLUS/hwe.html](http://www.software.hp.com/SUPPORT_PLUS/hwe.html)

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## Web Browser Requirements

You must have access to a web browser to use the Server Manager interface to administer and configure the HP-UX AAA Servers. Use only the following web browsers with the HP-UX AAA Server A.06.01.02.04—known interoperability issues exist in other web browser versions:

- Netscape Navigator 4.76 or higher
- Internet Explorer 5.05 or higher

## **LDAP Compatibility**

The HP-UX AAA Server A.06.01.02.04 is designed to interoperate with LDAP version 3 compliant directories. HP certified the HP-UX AAA Server A.06.01.02.04 with Netscape Directory Server version 6.x.

## **Availability in Native Languages**

The HP-UX AAA Server A.06.01.02.04 is currently available in English only.

## Known Problems and Limitations in Version A.06.01.02.04

The following information describes known problems and limitations in the HP-UX AAA Server A.06.01.02.04.

### Known Problems

- Server Manager incorrectly hashes user password when MD5 hashing is the file storage.
- Local realms configured for default user file storage do not support aliases.
- Single PEAP session does multiple lookup in user repository to authenticate user.

### Known Limitations

- Server Manager interface does not manage previous version of AAA server software.
  - **Workaround:** Follow the steps in “Migrating to Version A.06.01.x” on page 14 to migrate your configuration.
- The AAA server loads all shared libraries in the `/opt/aaa/aatv/` directory when starting. Libraries with unresolved external references will cause the startup to fail. User-created libraries for previous versions of the product may also fail during execution. Updating your installation replaces only the libraries originally installed with the product—any user-created libraries will remain.
  - **Workaround:** Remove any user-created shared libraries from the `/opt/aaa/aatv` directory before starting the HP-UX AAA Server.
- Server Manager interface does not load configuration applets in some network environments when using your browser's autocomplete or “Remember My Password” feature for the Server Manager password.
  - **Workaround:** Disable autocomplete for passwords, or remove the Server Manager password from the autocomplete list in your browser.

## Supplicants Support and Interoperability

The information in this section lists the supplicants and EAP methods (for each supplicant) certified with the HP-UX AAA Server A.06.01.02.04.

### Funk Odyssey version 1

The following is a list of EAP methods this supplicant and the HP-UX AAA Server A.06.01.02.04 support:

- EAP-TTLS with PAP, CHAP, MS-CHAP, or EAP-MD5
- LEAP
- EAP-TLS
- EAP-MD5

### Funk Odyssey version 2

The following is a list of EAP methods this supplicant and the HP-UX AAA Server A.06.01.02.04 support:

- EAP-TTLS with PAP, CHAP, MS-CHAP, or EAP-MD5
- LEAP
- EAP-TLS
- EAP-MD5

### Microsoft for Windows 2000 (SP4 or higher) and XP (SP1 or higher)

The following is a list of EAP methods this supplicant and the HP-UX AAA Server A.06.01.02.04 support:

- PEAP with EAP-MS-CHAP v2
- EAP-TLS

## Cisco Aironet Client Utility version 6.1

The following is a list of EAP methods this supplicant and the HP-UX AAA Server A.06.01.02.04 support:

- PEAP with EAP-GTC
- LEAP

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**NOTE** After installing and selecting the AAA Server CA certificate on some Cisco supplicants, you may encounter the following condition:  
"PEAP validation failed, status=-16"

You will still be able to authenticate by deselecting the AAA Server CA certificate in the supplicant. You will be prompted to inspect and accept the certificate during authentication.

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## Migrating to Version A.06.01.x

There are significant structure and feature differences between the HP-UX AAA Server A.06.01.x and previous versions of the product that affect the configuration files. The information in this chapter explains the steps you must perform to migrate to A.06.01.x from previous versions.

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**NOTE** Contact your HP Support representative if you need assistance with your migration.

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### Steps for Migrating

The following is a list of the directories you will use when migrating to the HP-UX AAA Server A.06.01.x from legacy versions:

- `/etc/opt/aaa/`: A.06.01.x working directories.
- `/etc/opt/aaa.old/`: configuration files from your legacy AAA server installation.
- `/opt/aaa/newconfig/etc/opt/aaa/`: backup of the default A.06.01.x files for reference.

Use the following steps to migrate to the HP-UX AAA Server A.06.01.x from legacy versions:

- Step 1.** Backup your existing AAA server configuration.
- Step 2.** Install the HP-UX AAA Server A.06.01.x without removing your existing HP-UX AAA Server software.
- Step 3.** Copy the following files from `/etc/opt/aaa.old/` to `/etc/opt/aaa/`. You do not need to modify these files when migrating to A.06.01.x:
  - `clients`
  - `las.conf`
  - `iaaaAgent.conf`
  - `db_srv.opt`
  - `engine.config`
  - `DAC.grp` and additional decision/policy files

**Step 4.** Update the following A.06.01.x files in `/etc/opt/aaa/` to include any modifications you made for your legacy configuration. Perform this step to include your legacy configuration in the new A.06.01.x file format. Refer to the copy of your legacy files in `/etc/opt/aaa.old/` and update the corresponding A.06.01.x files listed below:

- `vendors`
- `log.config`
- `radius.fsm`
- `dictionary`
- `aaa.config`

**Step 5.** Copy your legacy users files from `/etc/opt/aaa.old/` to `/etc/opt/aaa/` (including the default `users` file and all files with the `.users` extension). Update the users files as follows:

- Remove all `DEFAULT`, `dumbuser`, `pppuser`, and `slipuser` entries. The following shows example entries for each:

#### **DEFAULT**

```
DEFAULT Authentication-Type = Realm
Filter-Id = "unlim"
```

#### **dumbuser**

```
dumbuser Authentication-Type = None
Service-Type = Login,
Login-Service = Telnet,
Login-IP-Host = 255.255.255.255
```

#### **pppuser**

```
pppuser Authentication-Type = None
Service-Type = Framed,
Framed-Protocol = PPP,
Framed-IP-Netmask = 255.255.255.0,
Framed-Routing = None,
Framed-MTU = 1500,
Framed-Compression = Van-Jacobson-TCP-IP
```

**slipuser**

```
slipuser Authentication-Type = None
      Service-Type = Framed,
      Framed-Protocol = SLIP,
      Framed-IP-Netmask = 255.255.255.0,
      Framed-Routing = None,
      Framed-MTU = 1500,
      Framed-Compression = Van-Jacobson-TCP-IP
```

- **Remove all Authentication-Type=Realm and Authentication-Type=File strings from the remaining user entries. The following is a sample sed command you can modify to remove these entries:**

```
$ sed -e 's/Authentication-Type[ ]*=[ ]*Realm[ ,,]*//g'-e 's/Authentication-Type[ ]*=[ ]*File[ ,,]*//g' <users or *.users file name>
```

**Step 6.** Use Server Manager to re-configure all of your legacy realm and outbound proxy entries on A.06.01.x. Refer to your legacy authfile at `/etc/opt/aaa.old/authfile`:

- Use Server Manager's [Proxies](#) link to re-configure entries in `/etc/opt/aaa.old/authfile` with the following syntax:

```
realm.com      RADIUS      <Realm_host_name>
```

- Use Server Manager's [Local Realms](#) link to re-configure the realm entries as they appear in `/etc/opt/aaa.old/authfile`.

**Step 7.** If you are using a Netscape Directory server, update the RADIUS schema file for the directory server. Copy `/opt/aaa/examples/proldap/55iaaa-radius.ldif` to the Netscape Directory server. Stop and restart `slapd` after copying the schema file to the Netscape server.

**Step 8.** If you are using an OpenLDAP server, update the RADIUS schema file for the directory server. Copy `/opt/aaa/examples/proldap/iaaa-radius.ldif` to the OpenLDAP server. Stop and restart `slapd` after copying the schema file to the OpenLDAP server.

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**NOTE** After completing the migration to the HP-UX AAA Server A.06.01.x, the configuration secrets in `/opt/aaa/remotecontrol/rmiserver.properties` and `/opt/hpws/tomcat/webapps/aaa/WEB-INF/gui.properties` will be the default values. Refer to “Changing the Default RMI Objects Secret” in the Administrator’s Guide for information on changing these secrets.

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