

HP-UX AAA Server A.06.00.07 Release Notes

HP-UX 11.0 and 11i version 1

www.docs.hp.com



**Manufacturing Part Number : T1428-90016
E0203**

U.S.A.

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HP-UX AAA Server A.06.00.07

The information in this document is for the HP-UX AAA Server A.06.00.07 only.

Product Overview

The HP-UX AAA Server is used for authentication, authorization and accounting of user network access at the entry point to a network. By utilizing the industry standard Remote Authentication Dial-In User Service (RADIUS) protocol, it provides user authentication for network access devices. It also provides RADIUS based authorization, and access/accounting log files that can later be utilized by billing and accounting applications.

The HP-UX AAA Server supports RADIUS compliant devices, such as Network Access Servers (NAS). It also supports the Extensible Authentication Protocol (EAP), extending RADIUS support to RADIUS/EAP enabled LAN switches, hubs, and wireless LAN access points. User account information can be stored in local configuration files, LDAP version 3 compliant directories, or Oracle databases. Accounting information can be stored in either Merit (default) or Livingston style formats to ensure interoperability with a wide variety of billing and mediation applications.

The HP-UX AAA Server also includes session management capabilities, web based administration, SNMP support for effective management, LDAP directory support for scalable user management, and a full set of support utilities. The HP-UX AAA Server consists of the following four components, which may be installed independently:

- HP-UX AAA Server daemon, libraries, and utilities
- AAA Server Manager —web-based Graphical User Interface (GUI) that performs administration and configuration tasks from a client's browser for one or more AAA servers
- AAA Server module for Oracle authentication
- Product Documentation

Product Documentation

In addition to these Release Notes, HP provides the following two guides to support the HP-UX AAA Server A.06.00.07:

- *HP-UX AAA Server Administration and Authentication Guide*
- *HP-UX AAA Server Getting Started Guide*

These guides are installed with product in `/opt/aaa/share/doc/` and the Server Manager's Help menu. You can also find all of the HP-UX AAA Server product documentation on the Internet and Security Solutions page at <http://www.docs.hp.com>.

What's New in the HP-UX AAA Server A.06.00.07

The following is a list and description of the new features in the HP-UX AAA Server A.06.00.07:

Web-based Administration GUI — The AAA Server Manager

The AAA Server Manager utilizes the Tomcat piece of the HP Apache Web Server to provide a configuration interface between a web browser and one or more AAA servers. The program is used for starting, stopping, configuring, and modifying the servers. In addition, the program can retrieve logged server sessions and accounting information for an administrator.

Simple Network Management Protocol (SNMP) Support

SNMP provides a mechanism for a centrally located management workstation to monitor the activity of remote computers and network services. HP provides an SNMP application subagent with the HP-UX AAA Server that translates SNMP requests to and from the AAA server. The HP-UX AAA Server can exchange information with any SNMP master agent software that supports the AgentX protocol.

Microsoft Challenge-Handshake Authentication Protocol (MS-CHAP) Support

MS-CHAP is an implementation of the CHAP protocol that Microsoft created to authenticate remote Windows workstations. In most respects, MS-CHAP is identical to CHAP, but there are some differences. MS-CHAP is based on the encryption and hashing algorithms used by Windows networks, and the MS-CHAP response to a challenge is in a format optimized for compatibility with Windows operating systems.

Ability to Update Configuration on a Running Server (kill -HUP)

The HUP signal (`kill -HUP`) provides the ability to update some of your configuration while the HP-UX AAA Server is running. The signal tells a process that a change occurred and to read configuration files again.

NOTE EAP-TLS and EAP-TTLS functionality is included A.06.00.07 for experimental purposes only and is not supported for any other use.

NOTE Refer to the *HP-UX AAA Server Administration and Authentication Guide* for more information about these features.

Compatibility Information and Installation Requirements

The information in this section lists the requirements needed to install and run the HP-UX AAA Server A.06.00.07, including the following:

- Hardware Requirements
- Operating System Requirements
- Software Dependencies
- Patch Requirements
- 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)

Software Dependencies

You must have the following two software dependencies installed on your system to use the HP-UX AAA Server A.06.00.07:

- HP-UX SDK (product #T1456AA) containing Java2 RTE 1.4.0.x
- HP Apache Web Server 2.0.39.x or higher (product #B9416AA)

You can get HP-UX SDK with Java2 RTE 1.4.0.x at:

<http://www.hp.com/products1/unix/java/index.html>

You can get HP Apache 2.0.39.x or higher at:

<http://www.hp.com/products1/unix/webservers/>

NOTE You can also download HP Apache 2.0.39.x or higher at
<http://software.hp.com/>

IMPORTANT HP-UX AAA Server A.06.00.07 does not support any other version of Java. You must use the version specified above.

Patch Requirements

There are no patch requirements for the HP-UX AAA Server A.06.00.07.

Web Browser Requirements

Access to a web browser is required to administer and configure the HP-UX AAA Server A.06.00.07 using Server Manager. Use only the following web browsers with the HP-UX AAA Server A.06.00.07, as 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.06.00.07 is designed to interoperate with LDAP version 3 compliant directories. HP certified the HP-UX AAA Server A.06.00.07 with Netscape Directory Server version 6.

Fixes in the HP-UX AAA Server A.06.00.07

The HP-UX AAA Server A.06.00.07 contains fixes for the following defects present in previous versions:

Table 1 **Fixes in the HP-UX AAA Server A.06.00.07**

HP CHART Identifier	Defect Description
JAGae23676	Changing <code>list_copy_limit</code> in <code>engine.config</code> causes a core dump.
JAGae12539	User-Name Attribute-Value pair required to proxy accounting requests.
JAGae23690	MD5 hashed passwords are always authenticated.
JAGae11989	Regardless if configured as <code>type=merit:proxy</code> in the <code>clients</code> file, the AAA server core dumps when it receives an Access-Accept from a remote server without Merit vendor-specific attributes.
JAGae22154	<code>radiusd</code> , the HP-UX AAA Server daemon, can enter an infinite loop if the Unix kernel the server is running on has more file descriptors than the default amount.
JAGae12586	RADIUS Reply-Items are not returned properly with EAP.
JAGae53824	HP-UX AAA Server core dumps if the LDAP connection is lost when stress testing with the <code>radclient</code> utility.
JAGae12506	The <code>radcheck</code> and <code>radpwstst</code> utilities report an invalid message digest if the shared secret is longer than 16 characters.
JAGae12511	Token pool limit not enforced: Access-Accept sent regardless if no token is available from pool.

Known Problems and Limitations

The following information describes known problems and limitations in the HP-UX AAA Server A.06.00.07.

Known Problems

- LDAP failover will not work if the LDAP server is unresponsive. The HP-UX AAA Server will not recognize the LDAP server is inaccessible and `radiusd` will retransmit the request until it times-out.
- Authentication may fail when passwords are stored in SHA encryption.
- Modifying realms with web based administration can delete Tokenpool names from realm entries. Consequently, the Tokenpool name must be entered again manually in `/etc/opt/aaa/las.conf`.
- LDAP based policy is not enforced when LDAP bind style authentication is configured.
- Server Manager cannot modify manually added BIN/CIS options for realm entries in `/etc/opt/aaa/authfile`.

NOTE Currently no workarounds exist for these problems.

Known Limitations

- Administering the HP-UX AAA Server with Server Manager will not preserve comments in configuration files.
- Before you can start the Tomcat component of the HP Apache Web Server as a non-root user, you must first start and stop Tomcat as the root user.
- The HP-UX AAA Server will not start if any library files in `/opt/aaa/aatv/` contain unresolved external references. This can occur when libraries were added or renamed in previous installations.

IMPORTANT To avoid this limitation, remove any libraries from `/opt/aaa/aatv/` that were not included with the product by default when upgrading from previous versions of the HP-UX AAA Server.

Software Availability in Native Languages

None