

HP-UX AAA Server A.06.02 Release Notes

HP-UX 11i v1, 11i v2



i n v e n t

Manufacturing Part Number: T1428-90062

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U.S.A.

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HP-UX AAA Server A.06.02 Release Notes

Information in this document applies to the Web release of the HP-UX
AAA Server A.06.02 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 log files 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 Local Area Network (WLAN) access points *

NOTE

* Device must be RADIUS/EAP enabled.

The HP-UX AAA Server supports Merit (default) and Livingston accounting style formats to ensure interoperability with a wide variety of billing and mediation applications.

You can store account information for users accessing the network through the HP-UX AAA Server in any of the following repositories:

- Local AAA server configuration files
- LDAP version 3 compliant directories **
- Oracle databases-
 - Oracle version 8.1.7 or higher databases on HP-UX 11i v1, and HP-UX 11i v2 systems running on PA-RISC architecture
 - Oracle version 9i databases on HP-UX 11i v2 running on Itanium architecture

NOTE

** The HP-UX AAA server offers support for authentication request load balancing and failover

Product Features

The HP-UX AAA Server includes the following features:

- Dynamic Host Configuration Protocol (DHCP) support for centralized administration of IP Address assignment
- Simple Network Management Protocol (SNMP) support for effective management
- Web-based administration with the Server Manager graphic user interface
- Session management capabilities
- A full suite of support utilities
- Improved performance (over two times the throughput of HP-UX AAA Server A.06.01.05 for some deployments. Actual performance may vary, based on specific features used). These performance enhancements also provide more consistent response times under heavy load, and require less performance tuning of the HP-UX AAA Server to achieve optimal performance.
- Support for IPv6 networks (sending and receiving messages over IPv6) - HP-UX 11i v2 only
- Support for RFC 3162 (RADIUS and IPv6) - HP-11i v1 and 11i v2.

Product Documentation

You can find this document and additional HP-UX AAA Server documentation on Internet and Security Solutions page of the HP Technical Documentation website (www.docs.hp.com). The documents listed in Table 1 are also installed with the HP-UX AAA Server.

Table 1 **Documentation Installed with the HP-UX AAA Server**

Document	Location
README	/opt/aaa/README
HP-UX AAA Server A.06.02 Administrator's Guide	/opt/aaa/share/doc/admin.pdf
Manpages	/opt/aaa/share/man/
802.1x Advisor Help System	Server Manager GUI

NOTE

The Getting Started Guide that was provided in previous versions of the HP-UX AAA Server has been discontinued. This information is now included in the Administrator's Guide.

IMPORTANT

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

Wireless-LAN Documentation-The 802.1x Advisor

The 802.1x Advisor is an HTML 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.

What is New in this Version

The following new features are included in the HP-UX AAA Server version A.06.02:

- Improved performance (over two times the throughput of HP-UX AAA Server A.06.01.05 for some deployments. Actual performance may vary, based on specific features used). These performance enhancements also provide more consistent response times under heavy load, and require less performance tuning of the HP-UX AAA Server to achieve optimal performance.
- Support for IPv6 networks (sending and receiving messages over IPv6) - HP-UX 11i v2 only
- Support for RFC 3162 (RADIUS and IPv6) - HP-11i v1 and 11i v2.

NOTE

For AAA server installations using customized plug-ins:

Some data structures and functions have been modified to support IPv6. Due to these changes, all plug-ins created using previous versions of the SDK must be recompiled with the HP-UX AAA Server SDK version A.06.02. Plug-ins referencing the modified data structures and functions may also require minor modifications.

For a list of data structures and function prototypes that have been modified, refer to "New and Modified Data Structures and Functions" in the HP-UX AAA Server A.06.02 SDK Guide. You can request a copy of this document and new SDK by sending an email request to aaainfo@cup.hp.com.

IPv6 Support for External Services

This version of the HP-UX AAA Server can be configured to use IPv6 addresses and support IPv6 attributes for most of the protocols and services it supports. The HP-UX AAA Server currently supports only IPv4 for the following services:

- Dynamic user IP address assignment using DHCP
- Access to Oracle servers

What is New in this Version

- Access to RSA SecurID™ servers

Fixes Included in the HP-UX AAA Server A.06.02

Following lists the defect fix included in this version of the HP-UX AAA Server:

JAGaf48283 In previous versions of the HP-UX AAA Server, the product failed to startup on HP-UX 11i v2 (Itanium only) systems when OpenSSL A.00.09.07e was installed. An error message saying “Unable to find library libcrypto.so.0.9.7” was displayed. This problem is fixed in this release.

Compatibility Information and Installation Requirements

The information in this section lists the requirements needed to install and run the HP-UX AAA Server A.06.02:

Hardware Requirements

- HP 9000 Computers
- HP Integrity Servers
- Minimum of 128 MB memory
- 5 GB disk space

Operating System Requirements

- HP-UX 11i Version 1 (B.11.11)
- HP-UX 11i Version 2 (B.11.23)

Patch Requirements

If you are using the HP-UX AAA Server A.06.02 on HP-UX 11i v1, you must install the following patches:

- PHSS_26946 or later
- PHCO_31903 or later

You can download these patches from the Patch/Firmware Database located in the HP Products Maintenance and Support section of HP's IT Resource Center at <http://www.itrc.hp.com>.

No patches are required if you are using the HP-UX AAA Server A.06.02 on HP-UX 11i v2.

Web Browser Requirements

You must have a Web browser to use the Server Manager interface to administer and configure the HP-UX AAA Servers. Following are the Web browser requirements for this version of the HP-UX AAA Server:

Compatibility Information and Installation Requirements

- Use only the following web browsers with the HP-UX AAA Server A.06.02—known interoperability issues exist with other web browser versions:
 - Internet Explorer 6.0 or higher with Java 1.4.2.09 or higher
 - Mozilla 1.7.12 or higher with Java1.4.x or higher

NOTE

You can download Mozilla free-of-charge from HP at:
<http://www.hp.com/products1/unix/java/mozilla/index.html>

- Set the browser preferences (Internet options) to “always compare loaded pages to cached pages”.

Product Dependencies

The following sections describe the product dependencies for the HP-UX AAA Server A.06.02 on each supported HP-UX release. The Tomcat and Apache dependencies listed are both components of the HP-UX Apache Web Server Suite (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 Tomcat and Apache components of the Web Server Suite at
<http://h20293.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=HPUXWSSUITE>

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

You can get the latest version of OpenSSL at:
<http://h20293.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=OPENSSL11I>

HP-UX 11i v1 Requirements

You must have the following product dependencies installed on your HP-UX 11i v1 system to use the HP-UX AAA Server A.06.02:

- HP-UX SDK for Java version 1.4.2.x or higher
- HP-UX Tomcat-based Servlet Engine 1.0.03.x or higher

- OpenSSL version A.00.09.07e or higher

HP-UX 11i v2 Requirements

You must have the following product dependencies installed on your HP-UX 11i v2 systems to use the HP-UX AAA Server A.06.02:

- HP-UX SDK for Java version 1.4.2.x or higher
- HP-UX Tomcat-based Servlet Engine 1.0.10.01 or higher
- OpenSSL version A.00.09.07e or higher

LDAP Compatibility

The HP-UX AAA Server A.06.02 is designed to interoperate with LDAP version 3 compliant directories. HP has certified the HP-UX AAA Server A.06.02 with Netscape Directory Server version 6.2 or higher and OpenLDAP version 2.2.x.

NOTE

HP recommends using the Netscape Directory Server for environments requiring high performance and high availability.

Availability in Native Languages

The HP-UX AAA Server A.06.02 is currently available in English only.

Known Problems and Limitations in HP-UX AAA Server A.06.02

The following are known problems and limitations in HP-UX AAA Server A.06.02:

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

- The Server Manager interface does not manage multiple versions of HP-UX AAA Server software.

Workaround: Use Server Manager to manage HP-UX AAA Servers with the same version installed on every system.

- The HP-UX AAA Server A.06.02 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.

- On HP-UX 11i v2, unsupported browsers, including Netscape Navigator 7.0 and Mozilla 1.2.X periodically display various Server Manager icons, buttons, and default values incorrectly.

Workaround: Use a supported browser version with Server Manager.

- The HP-UX AAA Server schema file for LDAP (/opt/aaa/examples/proldap/iaaa-radius.schema) is incompatible with OpenLDAP 2.1 and higher

Workaround: On the LDAP Server, disable schema checking by including the following line in the slapd.conf file (usually found at /etc/openldap/):

```
schemacheck off
```

- The 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.

Supplicant Support and Interoperability

This section lists the supplicants and EAP methods (for each supplicant) certified with the HP-UX AAA Server A.06.02.

Funk Odyssey version 4

Following lists the EAP methods this supplicant and the HP-UX AAA Server A.06.02 support:

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

Microsoft for Windows 2000 (with SP4) and Windows XP (SP1 or SP2)

Following lists the EAP methods this supplicant and the HP-UX AAA Server A.06.02 support:

- Protected EAP (PEAP) with EAP-MS-CHAP v2
- EAP-TLS

Cisco Aironet Client Utility version 6.1

Following lists the EAP methods this supplicant and the HP-UX AAA Server A.06.02 support:

- PEAP with EAP-Generic Token Card (GTC)
- LEAP

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

Cisco Aironet Desktop Utility Version 2.5

Following lists the EAP methods this supplicant and the HP-UX AAA Server A.06.02 support:

- LEAP
- EAP-TLS

