

# **Kerberos Client v1.12 Release Notes for HP-UX 11.0**

**HP 9000 Systems**



**i n v e n t**

**Manufacturing Part Number: J5849-90016**

**E0905**

U.S.A.

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Kerberos bundle.

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## Announcement

HP-UX provides KRB5 Client Software including libraries, header files and utilities for implementing secured client/server applications in either 32-bit or 64-bit development environment.

The client libraries are based on MIT Kerberos V5 1.1.1 release. The KRB5-Client libraries support DES as specified in RFC 1510 of the IETF. This release is compatible with MIT Kerberos 1.2 and interoperable with Microsoft Windows 2000.

### Obsolescence of Kerberos Client on HP-UX 11.0 and 11i v1.6

Table 1-1 lists the obsolescence dates for HP-UX 11.0 and 11i v1.6.

**Table 1-1 Product Discontinuance and Obsolescence Dates**

| <b>HP-UX Version</b> | <b>Introduction</b> | <b>Discontinuance</b> | <b>Obsolescence</b> |
|----------------------|---------------------|-----------------------|---------------------|
| HP-UX 11.0           | November 1997       | 31st January 2005     | 31st December 2006  |
| HP-UX 11i v1.6       | June 2002           | 30th April 2004       | 31st October 2005   |

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## What's in This Version

The KRB5-Client software is based on MIT Kerberos V5 1.1.1 with all the major fixes to the buffer overrun vulnerabilities detected in MIT Kerberos V5 1.1.1 release. It consists of libraries, header files, manpages and Kerberos utilities, which help in performing command-line or programmatic authentication. Data encryption APIs can be used to protect data transmitted over the net. Kerberos Client version 1.12 supports both 32-bit and 64-bit development, as shown in Table 1-2.

**Table 1-2 Kerberos Client Libraries**

| <b>32 Bit</b>           | <b>64 Bit</b>                   | <b>Functionality</b>  |
|-------------------------|---------------------------------|---|
| /usr/lib/libkrb5.sl     | /usr/lib/pa20_64/libkrb5.sl     | Authenticate users, verify tickets, create authenticator, and manage the context              |
| /usr/lib/libcom_err.sl  | /usr/lib/pa20_64/libcom_err.sl  | Print appropriate error messages to stderr based on the error code returned by kerberos APIs. |
| /usr/lib/libk5crypto.sl | /usr/lib/pa20_64/libk5crypto.sl | Encrypt (DES) and decrypt all of their communications to assure privacy and data integrity    |



**Table 1-2 Kerberos Client Libraries (Continued)**

| 32 Bit                         | 64 Bit                                 | Functionality   |
|--------------------------------|--|---|
| /usr/lib/gss/libgssapi_krb5.sl | /usr/lib/pa20_64/gss/libgssapi_krb5.sl | Kerberos mechanism-specific library used by GSSAPI (/usr/lib/libgss.sl) |

The Kerberos Client software provides the following utilities:

- /usr/bin/kinit: obtain and cache the Kerberos ticket-granting ticket.
- /usr/bin/klist: list cached Kerberos tickets.
- /usr/bin/kvno: print key version numbers of Kerberos principals.
- /usr/bin/kpasswd: change a user's Kerberos password.
- /usr/sbin/ktutil: Kerberos keytab file maintenance utility ktutil(1)

The Kerberos client software also provides the following header files:

- /usr/include/profile.h
- /usr/include/krb5.h
- /usr/include/com\_err.h

The following list shows the manpages that are available for the Kerberos client software:

- /usr/share/man/man3.Z/libkrb5.3 - libkrb5 library
- /usr/share/man/man4.Z/krb5.conf - krb5.conf file
- /usr/share/man/man1.Z/kinit.1 - kinit utility
- /usr/share/man/man1.Z/klist.1 - klist utility
- /usr/share/man/man1.Z/kdestroy.1 - kdestroy utility
- /usr/share/man/man1.Z/kvno.1 - kvno utility
- /usr/share/man/man1.Z/ktutil.1 - ktutil utility
- /usr/share/man/man9.Z/kerberos.9 - kerberos

## What's in This Version

- `/usr/share/man/man1.Z/kpasswd.1-kpasswd` utility

For detailed product information, installing and configuring instructions, troubleshooting and sample configuration files, refer to the document *Configuration Guide for Kerberos Products on HP-UX* (Part Number T1417-90006 ).

## New in This Version

A defect has been fixed in this version of Kerberos Client. For more information, see “Patches and Fixes in This Version” on page 13.

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## Known Problems and Workarounds

- The following warning message may be displayed during the installation of KRB5-Client Version-1.0 software: "WARNING: Can't create core transition links since files/directories exist /usr/bin/kdestroy -> /opt/dce/bin/kdestroy/usr/bin/kinit -> /opt/dce/bin/kinit/usr/bin/klist -> /opt/dce/bin/klist"  
This is a known problem and it can be ignored.
- The utility `kdestroy` does not accept the `-e` option.

## **Compatibility Information and Installation Requirements**

### **Hardware Requirements**

HP 9000 workstations and servers with a minimum of 32 MB of memory and sufficient swap space (a minimum of 50 MB is recommended).

### **Operating System Requirements**

HP-UX 11.0

### **Disk Space Requirements**

A minimum disk space of 5MB is required to required to install the product.

## **Patches and Fixes in This Version**

The following defect has been fixed in this version of Kerberos Client:

JAGaf64805      KRB5-Client was unable to receive packets properly under certain conditions.

## **Known Limitations**

The following features are not supported by KRB5-Client Version-1.12 software:

- KRB5-Client Version-1.12 does not support Triple DES.
- KRB5-Client Version-1.12 libraries are not thread-safe.