

HP WBEM Services Software Developer's Kit, Version A.02.00, Release Notes

HP-UX



Manufacturing Part Number: T1434-90022

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U.S.A.

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Announcement

The following information is for version A.02.00 of HP WBEM Services Software Developers Kit (SDK).

HP WBEM Services Software Developers Kit is available from <http://software.hp.com>.

The HP WBEM Services SDK is the software developer's kit for the HP WBEM Services product. It provides application developers with the tools they need to develop CIM client applications and provider modules for HP WBEM Services.

HP WBEM Services and HP WBEM Services Software Developers Kit are HP's implementation of the DMTF (Distributed Management Task Force) WBEM (Web-Based Enterprise Management) standard for the HP-UX Operating Environment.

The HP WBEM Services SDK is a set of APIs that contain the components necessary for developers to write management applications that communicate with DMTF WBEM standard compliant devices. Developers can also use the SDK to develop providers to enable managed objects to communicate with the CIM Server. Providers get information about the managed objects and fulfill requests on behalf of client applications.

The APIs represent and manipulate CIM objects. These APIs represent CIM objects as C++ classes. Programmers can use these interfaces to describe managed objects and retrieve information about managed objects on a WBEM-enabled system.

Provider API

Provider APIs are interfaces that the CIM Server and providers use to communicate with each other. Providers can use these interfaces to provide the CIM Server a particular kind of dynamic data. When an application requests dynamic data from the CIM Server, the CIM Server uses these interfaces to pass the request to the registered provider.

Client API

Client APIs are interfaces that the CIM Clients use to communicate with the CIM Server. CIM Client Applications can use these interfaces to retrieve information about managed objects on a WBEM-enabled system.

What's In This Version

The HP WBEM Services Software Developer's Kit, Version A.02.00.11 is now available.

The following lists major content of the SDK for Version A.02.00.

- C++ header files containing the Client API and Provider API
- Examples:
 - Sample Clients
 - Enumerate Instances Client
 - Invoke Method Client
 - Sample Providers
 - Instance Provider
 - Method Provider
 - Indication Provider
 - Indication Consumer
- Product Documentation
 - Provider and Client Developer's Guide
 - API descriptions in HTML format
 - README file for example providers and clients

For information about the HP WBEM Services product, refer to the following documentation:

- *HP WBEM Services Software Developer's Kit for HP-UX Provider and Client Developer's Guide*, T1434-90009, available from <http://docs.hp.com/en/netsys.html>.
- *HP WBEM Services Administrator's Guide*, B8465-90017, available from <http://docs.hp.com/en/netsys.html>.
- *HP WBEM Services Version A.02.00 Release Notes*, B8465-90030 available from <http://docs.hp.com/en/netsys.html>.

For information about DMTF, WBEM, and CIM standards, go to <http://www.dmtf.org>.

Compatibility Information and Installing Requirements

- **HP-UX Software requirements:**

The following software must be installed on the system:

Table 1-1 Software requirements and OS platform/version compatibility:

SDK Product Number	HP-UX Version	Compiler	HP WBEM Services Version
T1434BA A.02.00.11	11i v1 11i v2	aCC C/C+ (Bundle B3913DB)	A.02.00 A.02.00.04 A.02.00.05 A.02.00.07 A.02.00.08 A.02.00.09 A.02.00.10 A.02.00.11
T1434BA A.02.00.10	11i v1 11i v2	aCC C/C+ (Bundle B3913DB)	A.02.00 A.02.00.04 A.02.00.05 A.02.00.07 A.02.00.08 A.02.00.09 A.02.00.10
T1434BA A.02.00.09	11i v1 11i v2	aCC C/C+ (Bundle B3913DB)	A.02.00 A.02.00.04 A.02.00.05 A.02.00.07 A.02.00.08 A.02.00.09
T1434BA A.02.00.08	11i v1 11i v2	aCC C/C+ (Bundle B3913DB)	A.02.00 A.02.00.04 A.02.00.05 A.02.00.07 A.02.00.08

Table 1-1 Software requirements and OS platform/version compatibility:

SDK Product Number	HP-UX Version	Compiler	HP WBEM Services Version
T1434BA A.02.00.07	11i v1 11i v2	aCC C/C++ (bundle B3913DB)	A.02.00 A.02.00.04 A.02.00.05 A.02.00.07
T1434BA A.02.00.05	11i v1 11i v2	aCC C/C++ (bundle B3913DB)	A.02.00 A.02.00.04 A.02.00.05
T1434BA A.02.00.04	11i v1 11i v2	aCC C/C++ (bundle B3913DB)	A.02.00 A.02.00.04
T1434BA A.02.00	11i v1	aCC C/C++ (bundle B3913DB)	A.02.00

• **HP-UX Disk space required to install:**

- /opt 2184 Kbytes
- /var 80 Kbytes

Installing HP WBEM Services Software Developer's Kit for HP-UX

You need to log in to the system as root (uid=0) to install the software for the HP WBEM Services Software Developers Kit.

Software is made available for HP-UX in Software Depot (SD) format as a single SD depot. Before installing the software, be sure that you have already installed the following software on your system:

- HP-UX 11i v1 or 11i v2.
- HP WBEM Services for HP-UX, Version A.02.00.xx

To install the software, download the product from <http://software.hp.com>. Copy the downloaded depot file to a local directory on your system, then run the SD-UX `swinstall` command and follow the instructions to install the software from the depot.

The file sets that make up the HP WBEM Services Software Developers Kit product are:

- WBEMSDK-CPLUS, A.02.00.xx - C++ fileset
- WBEMSDK-C+-COM, A.02.00.xx - C++ COM fileset
- WBEMSDK-DOC, A.02.00.xx - Document fileset

To verify, enter this command at the end of the install:

```
swverify T1434BA
```

When the software has been installed correctly, `swverify` posts this message: Verification succeeded

You may also build any of the examples included in the HP WBEM Services SDK to verify that the installation was fully successful. Refer to the README files

`/opt/wbem/samples/README`, `/opt/wbem/samples/Clients/DefaultC++/README`
and `/opt/wbem/samples/Providers/DefaultC++/README` for detailed instructions.

HP WBEM for HP-UX Directory Structure

The files in the following seven directories are copied to the target system by the installation procedure:

- /opt/wbem/html/DefaultC++ (Developer's Guide HTML files)
- /opt/wbem/include/Pegasus/Client (Client API C++ header files)
- /opt/wbem/include/Pegasus/Common (CIM classes C++ header files)
- /opt/wbem/include/Pegasus/Consumer (CIM classes C++ header files)
- /opt/wbem/include/Pegasus/Provider (Provider API C++ header files)
- /opt/wbem/samples/Clients/DefaultC++ (Sample clients C++ source, Makefile)
- /opt/wbem/samples/Providers/DefaultC++ (Sample providers C++ source, Makefile)

Removing HP WBEM Services SDK

NOTE The HP WBEM Services SDK must be removed *before* removing the HP WBEM Services software.

Use the SD-UX `swremove` command to remove the HP WBEM Services Software Developers Kit software:

```
swremove T1434BA
```

Patches and Fixes in this Version

This section contains recommended patches and addresses any known problems and workarounds.

Required and Recommended Patches

For HP-UX 11i v1 platforms, install Strong Random Number Generator depot KRNG11i.

Known Problems and Workarounds

There are no known problems for A.02.00 version of HP WBEM Services SDK.

Software Availability in Native Languages

HP WBEM Services Software Developers Kit is available only in English