

# Installing and Updating Ignite-UX



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## Abstract

Ignite-UX is available from multiple sources and supports multiple HP-UX releases. This white paper attempts to clarify how to obtain Ignite-UX, what parts of Ignite-UX to install, and how to address common problems related to installing and updating this product.

In addition to this white paper, information on installing Ignite-UX is available in the *Ignite-UX Administration Guide* available at <http://www.docs.hp.com/en/oshpxux11iv3.html#Ignite-UX>.

## Getting the software

Ignite-UX is available from three sources:

1. The Web
2. OE media and Application media
3. The recovery commands depot on an Ignite-UX server

### Downloading Ignite-UX from the Web

First, look for any important news items about the version of Ignite-UX currently available for download in the *Ignite-UX Release Notes* document, found at

<http://www.docs.hp.com/en/oshpxux11iv3.html#Ignite-UX> .

Then, download Ignite from the HP Software Depot at <http://www.hp.com/go/ignite-ux>.

The Web version of Ignite-UX provides OS-specific download options:

Download Option	Content	When to use
HP-UX 11i v1 (B.11.11) only	Downloads Ignite-UX-11-11	Serving B.11.11 clients only
HP-UX 11i v2 (B.11.23) only	Downloads Ignite-UX-11-23	Serving B.11.23 clients only
HP-UX 11i v3 (B.11.31) only	Downloads Ignite-UX-11-31	Serving B.11.31 clients only
All supported HP-UX versions (All 3 bundles)	Downloads IGNITE, which includes Ignite-UX-11-11, Ignite-UX-11-23, and Ignite-UX-11-31	Serving multiple OS versions and/or you run make_tape_recovery from a server <sup>1</sup> with a different OS than its clients

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#### Note:

As of Ignite-UX version C.7.0, the Ignite-UX complete product bundle that installs all supported versions of HP-UX has changed from B5725AA to IGNITE.

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<sup>1</sup> If you plan to perform make\_tape\_recovery from the server, you will need to have the server's version of Ignite-UX installed as well.

As an alternative to selecting the "All supported HP-UX versions" option, you may download more than one OS-specific bundle to get the combination of HP-UX support that you need. When you install an OS-specific Ignite-UX bundle, you will also see the IGNITE bundle in the *swlist (1M)* output of your installed software.

If you only want to download the software required to support system recovery of a specific client, select the applicable OS-specific option.

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**Important:**

Any Web download package of Ignite-UX can install on any supported HP-UX release. Supported versions of HP-UX are documented in the *Supported Versions of Ignite-UX* PDF file available at <http://www.docs.hp.com/en/oshpx11iv3.html#Ignite-UX>.

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Hewlett-Packard provides OS-specific bundles in order to decrease the download time for Ignite-UX. By limiting what you install on your Ignite-UX server, you save download time and disk space. However, your needs may change over time. For example, if you downloaded the package that supports HP-UX 11i v1 in July 2007, you most likely downloaded the C.7.2 version of Ignite-UX. If you decide in October 2007 that you also need support for HP-UX 11i v2, the Web packages for C.7.2 will no longer be available. At that point if you have not stored a copy of the full Ignite-UX product for potential future use, you would be forced to upgrade to a new version of Ignite-UX in order to add support for HP-UX 11i v2.

HP recommends you install the complete Ignite-UX product (IGNITE) unless you want to block the use of a specific version of HP-UX, increase the download speed, or conserve disk space on the server.

## Obtaining Ignite-UX from OE and Application media

Each media set released by HP contains bundles specific to one HP-UX release. For example, if you install bundle Ignite-UX-11-11 from Operating Environment (OE) media for HP-UX 11i v2, that bundle will only install properly on 11i v2 systems. The same is true for Application media.

If you support multiple HP-UX releases, you have two options:

1. Install Ignite-UX from the media specific to the HP-UX release of your Ignite-UX server. For example, if the current OE media supports HP-UX 11i v2 and your Ignite-UX server is HP-UX 11i v1, then use the AR media for HP-UX 11i v1 instead. Once Ignite-UX is installed on the system, you can install clients with any supported HP-UX release (this assumes you have installed the software required to support that release).
2. Download Ignite-UX from the Web. The version of Ignite-UX on the Web installs on any supported HP-UX release.

To successfully install Ignite-UX, use media appropriate for the target HP-UX release. Attempting to use Ignite-UX on a version of HP-UX that is no longer supported will fail. The appropriate OS-specific bundles must be present in order for Ignite-UX to support a given HP-UX release.

Do not install Ignite-UX with the Software Distributor (SD) option `-x allow_incompatible=true`. HP does not support installing Ignite-UX in this manner. If software incompatible with a target OS is force-installed, SD leaves that incompatible software in a state of "installed" but not "configured"; that is, the SD configure scripts are never run.

## Obtaining Ignite-UX from the recovery commands depot

Getting Ignite-UX software from the recovery commands depot requires that you have already installed and set up an Ignite-UX server. To determine whether the recovery commands depot exists, type:

```
# swlist -l depot
```

Look for `/var/opt/ignite/depots/recovery_cmds` in the list of available depots. If the recovery commands depot is not present, you can create it by running the `pkg_rec_depot (1m)` command:

```
# /opt/ignite/lbin/pkg_rec_depot
```

If you install additional Ignite-UX components onto an Ignite-UX server, you can force the recovery commands depot to be recreated:

```
# /opt/ignite/lbin/pkg_rec_depot -f
```

Any time you install a new version of Ignite-UX, the `recovery_cmds` depot is updated automatically.

Use the `swlist (1m)` command to verify the content of the recovery commands depot. In the following example, the command is being run on a system named `brwisd02`:

```
# swlist -d -s /var/opt/ignite/depots/recovery_cmds
# Initializing...
# Contacting target "brwisd02"...
#
# Target: brwisd02:/var/opt/ignite/depots/recovery_cmds
#
#
# Bundle(s):
#
    IUX-Recovery      C.7.3.146      Ignite-UX network recovery tool subset
    Ignite-UX-11-11   C.7.3.146      HP-UX Installation Utilities for
Installing 11.11 Systems
    Ignite-UX-11-23   C.7.3.146      HP-UX Installation Utilities for
Installing 11.23 Systems
    Ignite-UX-11-31   C.7.3.146      HP-UX Installation Utilities for
Installing 11.31 Systems
```

The `IUX-Recovery` bundle is unique to the recovery commands depot and contains only the filesets required to run `make_net_recovery` on an Ignite-UX client. The bundle is small because it does not contain install kernels or install file systems. On clients that will run the `make_net_recovery` command, only the `IUX-Recovery` bundle needs to be installed.

The various Ignite-UX bundles contain the same software as the Ignite-UX bundles on OE media and the Web download versions of Ignite-UX. They contain the software needed to run the `make_tape_recovery` command (including OS-specific install kernels and install file systems) and consequently are much larger bundles.

If you add a system as a client of an Ignite-UX server and then run a `make_net_recovery` or `make_tape_recovery` command from the `ignite (5)` user interface, Ignite-UX will automatically install the correct software from the recovery commands depot. Ignite-UX only updates the software on the client when `make_net_recovery (1M)` or `make_tape_recovery (1M)` are invoked via the `ignite (5)` command on the Ignite-UX server. If either of these commands is invoked from the client, Ignite-UX compares the client version to the server version and will generate one of the following error messages if they are different.

Either:

The version of the tools used for system recovery on <client> is newer than the version found on the server system <server>. You need to either update the version of Ignite-UX on the server or down-date the version on <client>.

Or:

The version of the tools used for system recovery on <client> is older than the version found on the server system <server>. It is recommended that you update Ignite-UX to the same version.

Ignite-UX makes no attempt to update the client's software.

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**Important:**

The Ignite-UX bundles from the recovery commands depot can be installed onto any supported HP-UX release, even if the version of Ignite-UX that was installed onto the Ignite-UX server was packaged as release specific (as from OE media).

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## Installing and updating Ignite-UX

To decide what parts of Ignite-UX should be installed, consider the following factors:

1. The HP-UX releases that Ignite-UX needs to support in your environment
2. Previous installations of Ignite-UX software

Refer to the table in the previous section, "Downloading Ignite-UX from the Web" for information on what Ignite-UX bundles you need to support your environment.

If Ignite-UX is already installed on your system and you simply want to update it to a newer version, make sure you update all the currently installed Ignite-UX bundles. To determine what bundles are currently installed, use the `swlist (1m)` command:

```
# swlist -l bundle | grep Ignite
```

If this command yields something similar to the following, then you have the full Ignite-UX product (B5725AA or IGNITE) installed:

```
IGNITE      C.7.2.94      HP-UX Installation Utilities (Ignite-UX)
```

If you find Ignite-UX bundles for more than one HP-UX release, the simplest strategy is to install the B5725AA or IGNITE bundle. Alternatively, you can supply multiple bundle names when you execute the `swinstall (1m)` command.

As a best practice, do not `swremove` Ignite-UX before updating to a new version. Doing so will cause some files to be reset, including the `INDEX` file, thus you will lose any customizations.

# Problems related to installing and updating Ignite-UX

Related problems include:

- Cleaning up old Ignite-UX software when an update didn't match what was already on the system
- Needing to ignite and recover an HP-UX release that Ignite-UX no longer supports
- Needing to move back to an earlier version of Ignite-UX
- Identifying the source from which Ignite-UX was installed
- A change in the name of the full product bundle in version C.7.0 and later
- Mismatched filesets after updating to version C.7.0 or later

## Cleaning up after an update (if needed)

If you select different Ignite-UX bundles for update than were previously installed, you can end up with a mix of old and new software on the system. This situation causes problems when you try to run the `make_tape_recovery(1M)` and `make_net_recovery(1M)` commands. Both commands check the local system to ensure that Ignite-UX does not have mixed-revision filesets before allowing the command to run. Mixed-revision filesets will cause the command to end in error, and a recovery archive will not be created. If you accidentally create this scenario, you can clean up the older software using the `swremove(1M)` command, or you can add newer software using the `swinstall(1M)` command.

For example, assume you installed the `Ignite-UX-11-11` bundle from version C.7.2.x. A few months later you realize you need to support HP-UX 11i v2. Using your current OE media, you install the `Ignite-UX-11-23` bundle. However, the newer media contains Ignite-UX version C.7.3.x. The second installation results in mixed versions of Ignite-UX. To correct this situation, you can either remove the `Ignite-UX-11-11` bundle (assuming you no longer need to support HP-UX 11i v1), or you can install the C.7.3x version of the `Ignite-UX-11-11` bundle.

## Dealing with obsolete HP-UX releases

When Hewlett-Packard stops supporting an HP-UX release, the OS-specific bundle for that release is removed from Ignite-UX. For example, in December 2005, `Ignite-IA-11-22` was removed from Ignite-UX C.6.5.x. In September 2004, `Ignite-UX-10-20` was removed from Ignite-UX C.6.0.x. In September 2007, `Ignite-UX-11-00` was removed from Ignite-UX C.7.3.x. To determine support for a specific release, refer to the *Supported Versions of Ignite-UX* document at <http://www.docs.hp.com/en/IUX/supportinfo.html>.

If your work environment requires continued support for an unsupported HP-UX release, you will need to maintain more than one Ignite-UX server. One server must remain on the last version of Ignite-UX to support the HP-UX release you need (e.g., Ignite-UX B.5.4.x for HP-UX 10.20). The other Ignite-UX server can continue to move forward with newer versions of Ignite-UX in order to support new hardware, features<sup>2</sup>, and revisions of HP-UX.

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<sup>2</sup> For example, using the HP-UX 11i v2 September 2004 OE or later requires you to use Ignite-UX version C.6.0.x or later on your Ignite-UX server. Using VxVM 4.1 on clients requires you to run at least Ignite-UX version C.6.3.x.

## Moving to an earlier version of Ignite-UX

If you have installed a newer version of Ignite-UX and then wish to revert to a previous version of Ignite-UX, you should remove Ignite-UX completely from the system and install the version you wish to have. If the system being downgraded is the Ignite-UX server, removing Ignite-UX and installing it again will not remove any per-client information. Note, however, that if you have modified any files delivered by Ignite-UX, you will lose those changes when you install a different version. (Ignite-UX preserves install file system customizations when upgrading versions.)

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**Warning:**

Ignite-UX allows backward compatibility of network recovery archives (network recovery archives created with an older version of Ignite-UX can be recovered with a newer version), but does not provide any guarantee that a network recovery archive created with a newer version of Ignite-UX can be recovered with an older version of Ignite-UX. Be very careful of this if you move to an earlier version of Ignite-UX.

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## Identifying the source depot for Ignite-UX software

You can determine the source depot used to install Ignite-UX by using the following command:

```
# swlist -a install_source -l bundle B5725AA
```

Remember, from Ignite-UX version C.7.0 and later, the IGNITE bundle replaces the B5725AA bundle. If you have one of the Ignite-UX-11-XX bundles installed instead of B5725AA or IGNITE, use that bundle name to find the installation source.

For example, if the installed software came from a recovery commands depot, you could use the above command to identify the Ignite-UX server. You could then determine if there is an updated version of the recovery commands depot on that Ignite-UX server.

If Ignite-UX was installed from CD/DVD-ROM media, it will only show the mount point where it was mounted; it will not identify the media in any way.

## A change in the name of the full product bundle in version C.7.0 and later

As of Ignite-UX version C.7.0, the Ignite-UX complete product bundle that installs all supported versions of HP-UX has changed from B5725AA to IGNITE. When IGNITE is installed, B5725AA is automatically removed.

If you have scripts that reference the old bundle name, they must be updated to reference the new bundle name. The HP-UX version-specific bundles, such as Ignite-UX-11-23, will not change names.

## Mismatched filesets after updating to version C.7.0 or later

Ignite-UX version C.7.0 fixes a defect in the `pkg_rec_depot` command. From Ignite-UX version C.6.0 to C.6.10, the command contained a defect that caused all the `BOOT-KRN-11-XX` filesets to be included in every `Ignite-UX-11-XX` bundle in the recovery commands depot (`/var/opt/ignite/depots/recovery_cmds`).

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**Note:**

This issue does not affect the network recovery bundle `IUX-Recovery`, any `Ignite-UX-11-XX` bundle from media, or the Web download version of Ignite-UX.

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If you use the recovery commands depot to perform an update to Ignite-UX version C.7.0, it will end with warnings. If Ignite-UX is updated because you have started a `make_tape_recovery` command on a client from the Ignite server, the `make_tape_recovery` command will fail because of mismatched filesets.

You will only see this issue if you have installed the full Ignite-UX bundle `B5725AA` on the Ignite server, or if you have installed more than one `Ignite-UX-11-XX` bundle on the Ignite server.

To work around this issue, you have to perform one of the following:

1. Remove **all** Ignite-UX software from all clients that have installed Ignite-UX from a recovery commands depot containing Ignite-UX versions C.6.0 to C.6.10. Once the Ignite server has been updated to Ignite-UX version C.7.0 or later, Ignite-UX can be installed again from the recovery commands depot. Note that starting a `make_tape_recovery` command from the Ignite user interface will cause Ignite-UX to be installed from the recovery commands depot – you do not need to install Ignite-UX if you normally create recovery tapes this way.
2. After updating Ignite-UX to version C.7.0 or later and determining that you have mixed fileset revisions, perform the following tasks. First run the `swlist` command as follows to determine the revisions of the mixed filesets.

```
# swlist | grep -i ignite
Ignite-UX-11-23      C.7.0.106    HP-UX Installation Utilities for
Installing 11.23 Systems
Ignite-UX            C.6.1.44     HP-UX System Installation Services
```

For each line in the output that shows Ignite-UX, perform the next action:

```
#swremove Ignite-UX,r=C.6.1.44
```

It is critical you provide the revision with the `swremove` command, or you might remove software you did not intend to remove. You must also use the revision shown in the `swlist` output, not the revision shown in the example `swremove` command. Normally, you should only see one line with the product `Ignite-UX`, however if you had mismatched filesets previously and never addressed the issue, it is possible you may see more than one line.

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