

Basic Maintenance: Upgrading the WLSE Software From Versions 1.1 to 1.3.x

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Introduction

Download the upgrade package and use one of the options described in the README file and in this document. You can install the upgrade with an update utility program included in the download, or FTP the upgrade from the Wireless LAN Solution Engine (WLSE) Command Line Interface (CLI). You can also find

an ISO WLSE recovery image in the CiscoWorks Wireless LAN Solution Engine Software Center.

You can reassemble this image and then burn it onto a CD and use it as a recovery CD or for upgrade purposes.

Note: If you use the recovery CD, you lose all current WLSE data.

Use these steps in order to update the WLSE:

1. Back up the WLSE.
2. Download the upgrade files.
3. Install the upgrade.

The examples in this document are for upgrades from WLSE 1.1 to WLSE 1.3.x. There is no change in process from release 1.0, so the steps described work for upgrades from WLSE 1.0 to WLSE 1.1.

Prerequisites

Requirements

There are no specific prerequisites for this document.

Components Used

The information in this document is based on WLSE software versions 1.0 through 1.3.x.

Conventions

For more information on document conventions, refer to the Cisco Technical Tips Conventions.

Before You Upgrade to WLSE 1.3.x

Unless you use the recovery CD, you must upgrade to WLSE 1.1 before you upgrade to WLSE 1.3.x. Attempts to upgrade from WLSE 1.0 to WLSE 1.3 without the recovery CD do not work. The steps listed in this document work for the upgrade from WLSE 1.0 to WLSE 1.1. You can obtain the the WLSE 1.1 files from the same location as the WLSE 1.3.x files.

Due to changes in the WLSE GUI layout and database schema from WLSE 1.1 to WLSE 1.3.x, this information is not preserved in the upgrade:

- User role settings
- Fault notification settings
- HTTP user and password credentials
- Existing fault records and the fault history

The upgrade preserves threshold and policy settings, so existing device faults in the network regenerate when WLSE polling resumes after the upgrade.

Note: If you decide to use the recovery CD to upgrade, you lose all current data on the WLSE. The upgrade preserves the appliance configuration, including IP address and hostname, however. For the upgrade to WLSE 1.3.x, you can back up the WLSE, and then use the recovery CD to restore from backup to the upgraded WLSE. The same data loss occurs with this method as with the conventional upgrade.

For upgrades to other WLSE releases with the recovery CD, verify in the release notes and README files that the restore from previous release backup is supported.

Get Started

Fundamental Concepts

The repository is the fundamental concept to understand when you upgrade the WLSE. In this context, a repository is a location where the WLSE upgrade tools store and access the upgrade packages.

Upgrade Methods

There are two repository approaches to a WLSE upgrade. The standard method uses the upgrade utility included in the upgrade ZIP file, which launches a repository tool on a Windows-based computer. The WLSE repository server method uses the WLSE internal repository server.

The third method for an upgrade to WLSE 1.3.x:

1. Downloads the ISO recovery CD images
2. Reassemble and burn them onto a CD
3. Uses the recovery CD to upgrade

Description	Filename
WLSE 1.3.x upgrade ZIP file:	WLSE-1.3u.K9.zip
WLSE 1.3.x README:	WLSE-1.3u.K9.readme.txt
WLSE 1.3.x repository information file:	WLSE-1.3u.K9.info

The WLSE 1.3 recovery image is split into multiple files that you must download and reassemble. The recovery CD image files are:

Description	Filename
WLSE 1.3 recovery CD-ROM README file	wlse-1.3.K9.ISO-Readme.txt
WLSE 1.3 recovery CD-ROM image split .aa file	wlse-1.3.K9.iso.aa
WLSE 1.3 recovery CD-ROM image split .ab file	wlse-1.3.K9.iso.ab

You can download the WLSE ISO images, along with all other upgrade files, from these locations:

- Wireless LAN Solution Engine Software Download (registered customers only)
- From the CLI make an FTP connection to **ftp.cisco.com**. The files are located in the **/cisco/crypto/3DES/cw2000/wlan-sol-eng** directory.

Note: To download files from ftp.cisco.com, you must run a passive-mode capable FTP client.

Note: The WLSE upgrade images are subject to import and export regulations of strong encryption. Prior to download of the image, your Cisco.com profile must confirm that you are allowed to download images with

strong crypto features. Contact the Cisco.com Support Team directly if you have problems related to the download of crypto files or an update to your Cisco.com profile.

With some virus-scan software, the ZIP file download hangs in an unresponsive state. This problem occurs when the software is configured to scan compressed download files. Cisco Systems has checked the ZIP file and its contents against viruses, so you may turn off this property for the download.

Which Upgrade Method

This table points out which upgrade options are available:

WLSE Version	Upgrade Options
1.0	<ul style="list-style-type: none"> • Upgrade to WLSE 1.1, and then upgrade to any WLSE version from 1.3 through 1.3.1 with the standard upgrade methods. • Use the recovery CD to upgrade directly to WLSE 1.3, and then to 1.3.1. <p>Note: Data is lost with this option.</p>
1.1	<ul style="list-style-type: none"> • Upgrade to WLSE 1.3.x with any one of the standard upgrade methods. • Use the recovery CD to upgrade to WLSE 1.3. <p>Note: Data is lost with this option.</p>

This table points out upgrade methods:

Upgrade Profile	Recommended Upgrade Method
Access to Windows machine, no FTP server	Standard Method
All cases	WLSE Repository Server Method
No concerns about data loss	Recovery CD
Multiple WLSE appliances	WLSE Repository Server Method special case

Standard Method

What Is Required?

You must have:

- WLSE 1.3.x upgrade ZIP file
- WLSE 1.3.x README file

- FTP server (for WLSE backup only)
- Windows NT or Windows 2000 machine (Windows XP is not supported)
- Browser access to the WLSE GUI
- Console access to the WLSE CLI (optional)

Basic Upgrade Steps

These are the basic steps to upgrade the WLSE:

1. Download the WLSE update and the README file.
2. Back up the WLSE. (optional)
3. Unzip the WLSE image into an empty directory on a Windows NT or 2000 machine with IP connectivity to the WLSE.
4. Create a virtual drive out of the directory where the WLSE was extracted.
5. Open the virtual drive to launch the upgrade utility program and start the repository.
6. Install the update image from the repository to the WLSE.

Download the Files

Complete these steps to download the WSLE update and the README file:

1. Refer to the Get Started section for links to the WLSE upgrade files.
2. Download the **WLSE-1.3u.K9.zip** file.
3. Download the **WLSE-1.3u.K9.readme.txt** file.

Unzip the Image

Before you begin, refer to Backing up the Wireless LAN Solution Engine Software for instructions on how to back up the WLSE.

Complete these steps to unzip the WLSE image into an empty directory:

1. The WLSE image is a ZIP file. Use a ZIP tool such as one of these to extract the downloaded WLSE image to an empty directory:
 - ◆ PKZip
 - ◆ WinZip
2. When you extract the image into the empty drive, a virtual drive is created.

Create a Virtual Drive

Complete these steps to create a virtual drive in the directory where you extract the WLSE files:

1. Open a DOS command window and issue this command:

```
subst drive2: drive1:\path
```

Replace *drive2:* with any free drive letter. For example, if drive G:\ is available, and the directory where you extracted the WLSE image is **Z:\wlse\wlse1.3**, the appropriate command is: **subst G: Z:\wlse\wlse1.3** .

2. Open the virtual drive.

Open the Drive

Complete these steps to open the virtual drive to launch the upgrade utility program and start the repository:

1. Use the Windows Explorer (or My Computer) to open the virtual drive.
2. If autoplay is enabled on the computer, the upgrade utility program launches when you open the virtual drive.
3. If the upgrade utility program does not launch, double-click **autorun.bat** in the virtual drive to launch it manually.

You can also use **autorun.bat** to launch the utility from the command line.

4. The Appliance Update screen displays in a browser window.

Install the Image

Complete these steps to install the image from the repository to the WLSE.

You can complete this procedure from one of these three locations:

- Appliance Update utility
- WLSE GUI
- WLSE CLI

The update takes a few minutes and the web server is shut down. The WLSE GUI is not available while this occurs. When the process completes, the WLSE updates to WLSE 1.3.

The time required for the upgrade from WLSE 1.1 to WLSE 1.3.x depends on network latency. The upgrade takes approximately 10 to 15 minutes over a 100 Mbps Ethernet LAN.

Appliance Update Utility

Complete these steps:

1. In the Appliance Update screen, enter the hostname or IP address of the WLSE in the field in the Appliance Update screen.
2. Click **Update**.
3. Enter the administrator username and password.
4. The utility updates the WLSE.

WLSE GUI

Complete these steps:

1. Log in to the WLSE
2. Choose **Administration > Appliance > Software > Define Repository** from the menu.
3. Enter these values:
 - ◆ hostname or IP address of the Windows NT or 2000 machine where the repository utility was launched
 - ◆ 9851 for the port number parameter
 - ◆ an optional description
4. Click **Connect to Repository**.

A successful connection displays the information on the right-hand side next to the fields.

5. Click **Install Software Updates**.
6. In order to select the update image, select the radio button to the left of the image and click **Install** at the bottom of the screen.
7. **Confirm** the installation before the WLSE proceeds.

Note: The web server shuts down. Once the update completes, you see the WLSE login screen.

WLSE CLI

Complete these steps:

1. Log in to the WLSE CLI.
2. Issue the **install** command.
3. In order to configure the repository server, issue the **install configure** subcommand.

This is the correct syntax:

```
install configure {URL URL Value | default | save} OR
install configure url http:repository_hostname_or_ipaddress:9851
```

For example, if the repository server runs on hostname foo-w2k, this is the **install** command:

```
install configure url http://foo-w2k:9851
```

4. In order to list the available updates and verify that you have successfully connected to the repository, issue the **list** subcommand.

This is the correct syntax:

```
install list [all | full | page | updates]
```

For example:

```
admin@wlse: install list
URL=http://aurelius-w2k:9851
Initializing install: Success
WLSE-1.3u
```

5. In order to complete the upgrade from the repository, issue the **update** subcommand.

This is the correct syntax:

```
install update package-name
```

For example, to update to WLSE 1.3, this is the command:

```
install update WLSE-1.3u
```

Recovery CD Method

What Is Required?

You must have:

- CD writer/burner

- WLSE 1.3 recovery CD files, downloaded and reassembled
- WLSE 1.3 recovery CD README file
- FTP server for WLSE backup and restore
- Console access to the WLSE CLI

Basic Upgrade Method

After the First Customer Ship (FCS) of WLSE 1.3, new WLSE units ship from manufacturing with WLSE 1.3 installed and include a WLSE 1.3 recovery CD. Units prior to WLSE 1.3 FCS ship with the WLSE 1.0 recovery CD.

These are the basic steps to upgrade the WLSE with the recovery CD:

1. Download the WLSE recovery CD files, along with the README file.
2. Assemble the recovery files.
3. Burn the newly assembled recovery image onto a CD as an ISO image.
4. Back up the WLSE. (optional)
5. Use the CD to upgrade the WLSE.
6. Restore your data from the backup. (optional)

Download the Files

Complete these steps to download the WLSE update and information and README files to an FTP server:

1. Refer to Get Started for the links to the WLSE upgrade files.
2. Download these files:

- ◆ **WLSE-1.3.K9.ISO-Readme.txt.**
- ◆ **wlse-1.3-K9.iso.aa**
- ◆ **wlse-1.3-K9.iso.ab**

Assemble Files

To reassemble the files, issue the appropriate command:

- UNIX:

```
cat wlse-1.3.K9.iso.* > wlse-1.3.K9.iso
```

- Windows (from a DOS command prompt):

```
copy /b wlse-1.3.K9.iso.aa + wlse-1.3.K9.iso.ab wlse-1.3.K9.iso
```

Burn the CD

Complete these steps to burn the newly assembled recovery image onto a CD as an ISO image:

1. Burn the image as an ISO or CD image (not as a file) to a clean CD. Consult the manual of your CD writer.
2. Mount the CD ROM on either a Windows or UNIX machine to verify the recovery CD. The directory listing that results should resemble the appropriate example:

- ◆ **UNIX:**

autorun.bat	image	jre	startWebServer.bat
AUTORUN.INF	index.html	packages	stopWebServer.bat
boot.cat	install	rr_moved	tomcat
check-server.xml	java.policy.all	sdk	
docs	jini	server.xml	

◆ **Windows:**

```

Directory of Z:\
05/25/2001  09:49a  31 AUTORUN.INF
06/07/2001  11:29a  917 autorun.bat
09/09/2002  04:21p  2,048 boot.cat
06/02/2001  05:01p  991 check-server.xml
09/09/2002  04:21p  <DIR> docs
06/05/2001  04:24p  <DIR> image
06/07/2001  11:27a  390 index.html
01/25/2002  10:05a  <DIR> install
08/10/2000  12:23p  56 java.policy.all
05/21/2001  12:11p  <DIR> jini
05/21/2001  12:11p  <DIR> jre
05/16/2002  09:05a  <DIR> packages
09/09/2002  04:21p  <DIR> sdk
05/24/2001  05:24p  2,901 server.xml
06/02/2001  06:35p  807 startWebServer.bat
05/24/2001  05:24p  <DIR> tomcat
  9 File(s) 8,898 bytes
  8 Dir(s)  0 bytes free

```

Upgrade the Appliance

Before you begin, refer to Backing up the the Wireless LAN Solution Engine Software for instructions on how to back up the WLSE.

Complete these steps to upgrade the WLSE with the ISO CD you burned:

1. Remove the bezel from the front of the WLSE appliance and insert the CD into the CD-drive.
2. Log in to the WLSE CLI as the admin user (typically **admin**).
3. Issue the **reload** command.
4. When prompted, confirm that you want to reload the WLSE.
5. The WLSE boots into the recovery image. You see a prompt similar to this:

```

*****
WARNING WARNING WARNING WARNING
** Continuing this script will      **
** re-initialize the system disk.    **
** All data will be destroyed.       **
** Entering Rescue will not destroy  **
** data and will start a bash shell.**
*****

```

Do you wish to continue(Yes/[No]/Rescue):

6. Enter **Yes** at the prompt.
7. The program copies files to the WLSE hard drive, and then ejects the CD and reboots.

Note: The program is finished with the CD at this point. *Do not reinsert the CD after it is ejected.*

8. Allow the WLSE to reboot and install the packages on the appliance. The process takes 15 to 20 minutes. The process is complete when the login prompt is available in the CLI.

Restore the Data Through the GUI

Complete these steps to restore data from backup with the WLSE GUI. You must configure the backup and restore FTP server in the WLSE.

1. Consult the previous section for how to configure the WLSE backup and restore FTP server.
2. To restore through the GUI, use a web browser to log in to the WLSE.
3. Choose **Administration > Appliance > Backup and Restore > Restore** from the menu.
4. From the drop-down menu, select the backup file to use in the restore.
5. Choose the **Restore** option.
6. In order to confirm the image chosen, click **OK**. The web server shuts down while the restore is underway, and you temporarily lose connectivity to the WLSE.
7. When the restore process is complete, log in to the WLSE again.

Restore the Data Through the CLI

Complete these steps to restore data from backup through the WLSE CLI. You must configured the backup and restore FTP server in the WLSE.

1. In order to define the backup and restore FTP server, issue the **backupconfig** CLI command.
2. In order to use the CLI, issue the **restore** command. This is the correct syntax:

```
restore BACKUPNAME
```

For example, if the backup is `wlse_12212002_014555`, the command is **restore wlse_12212002_014555**.

Note: There is no status indicator for the restore in WLSE 1.3. The CLI appears to be hung while the restore is underway. The restore shuts down the web server on the WLSE, so the GUI is temporarily unavailable. The amount of time the restore process takes depends on network latency and the size of the backup file. When the restore is complete, the CLI is available again.

WLSE Repository Server Method

What is Required?

You must have:

- WLSE 1.3.x upgrade ZIP file
- WLSE 1.3.x README file
- WLSE 1.3.x repository info file
- FTP server for WLSE backup and restore
- Console access to the WLSE CLI

Basic Upgrade Steps

These are the basic steps to upgrade the WLSE through the repository server method:

1. Download the WLSE update, information, and README files to an FTP server.

2. Back up the WLSE. (optional)
3. Define the FTP server and create a local (to the WLSE) repository through the WLSE CLI.
4. Use the WLSE local repository to update the image.

- ◆ CLI
- ◆ GUI

Download the Files

Complete these steps in order to download the WLSE update, information, and README files to an FTP server:

1. Refer to Get Started for the URLs to the WLSE upgrade files.
2. Download the upgrade ZIP file and repository information file to the FTP server. You must place the upgrade ZIP file and information file in the same directory on the FTP server. *Do not extract the ZIP file.*
3. In the case of the WLSE 1.3 upgrade, the upgrade ZIP file is **WLSE-1.3u.K9.zip** and the repository information file is **WLSE-1.3u.K9.info**.

Define the Server and Create the Repository

Before you begin, refer to Backing up the the Wireless LAN Solution Engine Software for instructions on how to back up the WLSE.

Complete these steps to define the FTP server and create a local repository to the WLSE through the WLSE CLI:

1. Log in to the WLSE console as the administrator user (typically **admin**).
2. In order to create a software repository on the WLSE, issue the **repository** command and the **source** subcommand. This is the correct syntax:

```
repository source URL
```

In this case, the command would be:

```
repository source  
ftp://FTP_server_hostname_or_IPaddress/path
```

For example, if you downloaded the WLSE upgrade image and info file to an FTP server with IP address **a.b.c.d** and path **wlse/wlse1.3**, the command is:

```
repository source ftp://a.b.c.d/wlse/wlse1.3
```

3. In order to list the contents of the FTP server and validate the contents, issue the **list** subcommand:

```
repository list remote
```

You see the appropriate update image in the repository. For example:

```
admin@wlse:repository list remote  
Repository Source: ftp://172.20.98.199/wlse/wlse1.3  
Username:anonymous  
Password:  
Name                Version            Date                Summary
```

4. In order to add the appropriate image to the WLSE local repository, issue the **add** subcommand:

```
repository add patch name/package
```

5. Enter a valid username and password for the FTP server. For example:

```
admin@wlse:repository add WLSE-1.3u.K9
Repository Source: ftp://172.20.98.199/wlse/wlse1.3
Username:anonymous
Password:
Getting image files.
Checking MD5SUMS
Unzipping files.
Installing files
admin@wlse:
```

6. In order to validate the success of the **add** command, issue the **list** subcommand:

```
repository list local
```

For example:

```
admin@wlse-tmenet-1: repository list local
Repository Source: ftp://a.b.c.d/wlse/wlse1.3
WLSE-1.3u
admin@wlse:
```

Update the Image Through the CLI

Complete these steps to use the WLSE local repository to update the image from the WLSE CLI:

1. In order to configure the repository server, issue the **install configure** subcommand. This is the correct syntax:

```
install configure url
http:repository_hostname_or_ipaddress:9851
```

2. Because the repository runs locally on the WLSE, use **localhost** as the repository server name. This is the install command:

```
install configure url http://localhost:9851
```

3. In order to list the available updates and verify the successful repository connection, issue the **list** subcommand. For example:

```
admin@wlse: install list
URL=http://localhost:9851
Initializing install: Success
WLSE-1.3u
```

4. In order to complete the upgrade from the repository, issue the **update** subcommand. This is the correct command syntax:

```
install update package-name
```

For example, in order to update to WLSE 1.3, issue this command:

```
install update WLSE-1.3u
```

5. The update takes a few minutes and the web server is shut down. The WLSE GUI is unavailable during this time. Once the process is complete, the WLSE is updated to WLSE 1.3.

Update the Image Through the GUI

Complete these steps to use the WLSE local repository to update the image from the WLSE GUI:

1. Log in to the WLSE and choose **Administration > Appliance > Software > Define Repository** from the menu.
2. Enter these parameters:
 - ◆ **localhost** in the Hostname field
 - ◆ **9851** for the port number parameter
 - ◆ an optional description
3. Click **Connect to Repository**. A successful connection displays information on the right side, next to the fields.
4. Click **Install Software Updates**.
5. Select the appropriate radio button to the left of the update image listing.
6. Click **Install** at the bottom of the screen.
7. Confirm the installation before the WLSE proceeds. The web server shuts down. Once the update is complete, you see the WLSE login screen. The update typically takes 5 to 10 minutes.

Upgrade Multiple WLSE Appliances from a Single Source

What Is Required?

You must have:

- WLSE 1.3 upgrade ZIP file
- WLSE 1.3 README file
- WLSE 1.3 repository info file
- FTP server for WLSE backups and WLSE 1.3 file staging
- Console access to the WLSE CLI
- Browser access to the WLSE GUI

Basic Upgrade Steps

In order to best upgrade multiple WLSE appliances, use one WLSE as a repository server and point the other appliances to the repository WLSE. In order to do this, you must first create the repository on the repository WLSE. You must also back up each WLSE before you upgrade the appliances.

1. Create a repository server on one WLSE appliance.
2. Back up the WLSE appliances.
3. Update each of the WLSE appliances.

Create the Repository

In order to create the repository WLSE, the basic steps are:

1. Download the WLSE update, information, and README files to an FTP server.
2. Define the FTP server and create a repository local to the WLSE through the WLSE CLI.

Download the Files

Refer to Get Started for the links to the WLSE upgrade files.

1. Download the upgrade ZIP file and repository information file to the FTP server.
2. Place the upgrade ZIP file and information file in the same directory on the FTP server.
3. *Do not extract the ZIP file.* In the case of the WLSE 1.3 upgrade, the upgrade ZIP file is **WLSE-1.3u.K9.zip** and the repository information file is **WLSE-1.3u.K9.info**.

Create the Repository

Complete these steps to create the repository:

1. Log in as the administrator user (typically **admin**) to the console of the repository WLSE.
2. In order to create a software repository on the WLSE, issue the **repository** command and the **source** subcommand. This is the correct syntax:

```
repository source ftp://FTP_server_hostname_or_IPaddress/path
```

For example, if you download the WLSE upgrade image and information file to an FTP server with IP address **a.b.c.d** and path **wlse/wlse1.3**, the command would be:

```
repository source ftp://a.b.c.d/wlse/wlse1.3
```

3. In order to list the contents of the FTP server and validate them, issue the **repository list remote** subcommand.

Note: You must enter a valid username and password after you issue this command.

You now see the appropriate update image in the repository. For example:

```
admin@wlse:repository list remote  
Repository Source: ftp://a.b.c.d/wlse/wlse1.3  
Username:anonymous  
Password:  
Name           Version      Date                               Summary  
WLSE-1.3u.K9  WLSE-1.3u   Wed-Nov-27-16:11:27-UTC-2002  WLSE-1.3_Upgrade_Patch
```

4. In order to add the appropriate image to the local WLSE repository, issue the **add** subcommand:

```
repository add patch name
```

5. Enter a valid username and password for the FTP server. For example:

```
admin@wlse:repository add WLSE-1.3u.K9  
Repository Source: ftp://172.20.98.199/wlse/wlse1.3  
Username:anonymous  
Password:  
Getting image files.  
Checking MD5SUMS  
Unzipping files.  
Installing files  
admin@wlse:
```

6. In order to validate the success of the **add** command, issue the **list** subcommand:

```
repository list local
```

For example:

```
admin@wlse: repository list local
Repository Source: ftp://172.20.98.199/wlse/wlse1.3
WLSE-1.3u
admin@wlse:
```

Update Each Appliance

Before you begin, refer to Backing up the the Wireless LAN Solution Engine Software for instructions on how to back up the WLSE.

Complete these steps to upgrade each WLSE appliance:

1. In order to upgrade the WLSE repository server, follow the instructions in WLSE Repository Server Method. Begin with either Update the Image Using WLSE CLI or Update the Image Using WLSE GUI, as appropriate.
2. For each WLSE appliance, use either the GUI or CLI method.
3. Use the hostname or IP address of the WLSE repository server for the repository entries and port **9851**.
4. When you have completed the upgrades to the WLSE appliances, issue the **repository server stop** command in the WLSE CLI in order to shut down the repository server.
5. In order to restart the repository server at the next upgrade, issue the **repository server start** command.

Troubleshooting

In order to view a software history for the WLSE from the menu, go to **Administration > Appliance > Software > Software Update History**. You can view the installation log files from the links on the right.

These files are also available from **Administration > Appliance > Status > View Log File**, where they are listed under **install.log**. You can use the search utility to search for keywords. For example, if something goes wrong with the installation, you can search for the keyword **Error**.

If the database is corrupted, you must reimage the WLSE appliance with the recovery CD. If the recovery CD is used, all data is lost. Therefore, you must have a good backup before you upgrade the WLSE. To get a WLSE 1.3 recovery CD, use the instructions in the previous sections.

Related Information

- **Technical Support – Cisco Systems**
-

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