



Install Cisco Virtualization Experience Media Engine

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Install Cisco VXME Components Workflow



Important

The Cisco Jabber for Windows or Cisco UC Integration for Microsoft Lync version must match the Cisco Virtualization Experience Media Engine for SUSE Linux version. See the "System Requirements" section of the release notes documentation for your Virtualization Experience Media Engine release.

Procedure

	Command or Action	Purpose
Step 1	Download the Cisco VXME Client Add-on, on page 2	
Step 2	Download the Cisco VXME Agent, on page 2	
Step 3	(Optional) Download the Cisco AnyConnect Add-on, on page 3	Only perform this step if users require VPN connectivity.
Step 4	On the thin client, install the Cisco Virtualization Experience Media Engine (VXME) prerequisite add-on.	

	Command or Action	Purpose
Step 5	On the thin client install the Cisco Virtualization Experience Media Engine (VXME) add-on. See Create a Dell Wyse Device Manager Package, on page 3 .	You can deploy Cisco AnyConnect at the same time.
Step 6	On the HVD, uninstall any previously installed versions of Cisco VXME Agent (formerly Cisco VXME Utilities) and Cisco Unified Communications clients, such as Cisco Jabber, Cisco UC Integration for Microsoft Lync, or Cisco Unified Personal Communicator.	
Step 7	On the HVD, install Cisco VXME Agent.	
Step 8	On the HVD, install Cisco Jabber or Cisco UC Integration for Microsoft Lync.	

Related Topics

[File Names](#)

Download the Cisco VXME Client Add-on



Note The CiscoVXMEClient.zip file includes a prerequisite add-on, which you must install on the thin client, before you install the Cisco VXME Client add-on.

Procedure

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- Step 1** Go to the following URL:
<http://www.cisco.com/cisco/software/navigator.html>
 - Step 2** Choose **Products > Unified Communications > Unified Communications Applications > Messaging > Virtualization Experience Media Engine > Virtualization Experience Media Engine for SUSE Linux**.
 - Step 3** From the list, choose the file for your release.
 - Step 4** Select **Download** or **Add to cart** and follow the prompts.
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Download the Cisco VXME Agent

Install Cisco VXME Agent on the hosted virtual desktops (HVD), before you install Cisco Jabber for Windows. If you plan to install Cisco UC Integration™ for Microsoft Lync, do not perform this procedure. Cisco UC Integration™ for Microsoft Lync includes Cisco VXME Agent.

Procedure

- Step 1** Go to the following URL:
<http://www.cisco.com/cisco/software/navigator.html>
 - Step 2** Choose **Products > Unified Communications > Unified Communications Applications > Messaging > Virtualization Experience Media Engine > Virtualization Experience Media Engine for SUSE Linux**.
 - Step 3** From the list, choose the file for your release.
 - Step 4** Select **Download** or **Add to cart** and follow the prompts.
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Download the Cisco AnyConnect Add-on

If users require VPN connectivity, download the Cisco AnyConnect add-on.

Procedure

- Step 1** Go to the following URL:
<http://www.cisco.com/cisco/software/navigator.html>
 - Step 2** Choose **Products > Unified Communications > Unified Communications Applications > Messaging > Cisco Virtualization Experience Media Engine > Cisco Virtualization Experience Media Engine for SUSE Linux**.
 - Step 3** From the list, choose the file for your release.
 - Step 4** Select **Download** or **Add to cart** and follow the prompts.
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Related Topics

[File Names](#)

Create a Dell Wyse Device Manager Package

Wyse Device Manager is the recommended deployment tool to deploy the Cisco Virtualization Experience Media Engine add-on to the thin clients. See the Dell Wyse documentation for supported versions. You can also use this procedure if the thin clients are already running the required base image and you want to deploy an add-on.

Follow the optional steps in this procedure to deploy Cisco AnyConnect with the Cisco Virtualization Experience Media Engine add-on. In the procedure examples, <version> means <[Release Number]-[Build Number]-[Platform (SP2/SP3)]>.

Before You Begin

- Ensure that the thin clients are running the required firmware build; see *Release Notes for Cisco Virtualization Experience Media Engine for SUSE Linux* for your release. If necessary, contact Dell Wyse to get a compatible image.
- Obtain all of the required installation files: VXME, and if required, the optional AnyConnect VPN.
- Ensure that the thin clients are checked-in to Dell Wyse Device Manager (WDM). The devices should appear green in WDM.

Procedure

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- Step 1** On the server, on which you have WDM installed, extract the add-on files to a local folder. The extracted add-on folder structure appears as follows:
- ```
~/<local folder>/addons/vxme-pre-reqs-<version>.rpm
~/<local folder>/addons/cisco_vxme_client-<version>.rpm
~/<local folder>/addons/directory
```
- Step 2** (Optional) To deploy Cisco AnyConnect with Virtualization Experience Media Engine, extract `anyconnect_bundle.<version>.zip`.
- Step 3** Copy `vxme-pre-reqs-<version>.rpm` and `vxme-<version>.rpm` to `~/CiscoVXME/CiscoVXME_x.x`, where `x.x` is your release number. The folder structure is as follows:
- ```
~/CiscoVXME/CiscoVXME_x.x/install-sletc-addons.sh
~/CiscoVXME/CiscoVXME_x.x/update-addons-list
~/CiscoVXME/CiscoVXME_x.x/vxme-pre-reqs-<version>.rpm
~/CiscoVXME/CiscoVXME_x.x/cisco_vxme_client-<version>.rpm
~/CiscoVXME/CiscoVXME_x.x.rsp
```
- Step 4** (Optional) To deploy Cisco AnyConnect with Virtualization Experience Media Engine, copy the `anyconnect_bundle-<version>.rpm` file to `~/CiscoVXME/CiscoVXME_x.x` where `x.x` is your release number.
- Step 5** (Optional) To deploy Cisco AnyConnect with Virtualization Experience Media Engine, add the following line to `update-addons-list`: `UPDATE_ADDONS_LIST+=" anyconnect_bundle-<version>.rpm"`
`UPDATE_ADDONS_LIST+=" anyconnect_bundle-<version>.rpm"`
- Step 6** In the navigation pane of the Administrator Console, right-click **Package Manager** and then choose **New > Package**.
- Step 7** In the **Package Wizard** window, select **Register a Package from a Script File (.RSP)**, and then select **Next**.
- Step 8** Enter the path to the `CiscoVXME_x.x.rsp` file (where `x.x` is your release), and then select **Next**.
Tip You can select **Browse** to find and choose the file.
- Step 9** In the Software Package Information dialog, check **Active**, and then select **Next**. This step makes the WDM package active for distribution.
- Step 10** To create and register the WDM package, select **Next**.
- Step 11** Select **Finish**.
WDM copies the package to the Master Repository, where it appears under the appropriate category. The package is ready for distribution.
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What to Do Next

Use the Default Device Configuration (DDC) method to upgrade the thin client.

For information about additional configuration required to enable Cisco AnyConnect VPN connections, see [Cisco AnyConnect Secure Mobility Client](#).

Related Topics

[File Names](#)

Folder Structure

**Note**

All package names, filenames (including .rsp and .ini files), and folders must be lower-case.

For example, assuming <packagename>.rsp is the RSP file, the folder structure required to register the package is as follows:

Folder	Description
~\<packagename>.rsp	The unique RSP file, located in the same folder as the matching root package folder.
~\<packagename>\	The root package folder. It stores the wlx folder and the add-ons folder. It also stores the following files, which are used for imaging and updating devices: <ul style="list-style-type: none"> • Latest-image.raw • Latest-image.raw.info
~\<packagename>\wlx	The main INI configuration folder. It stores the following: <ul style="list-style-type: none"> • wlx.ini file and \$MAC.ini file • bitmap folder • certs folder • ini folder
~\<packagename>\wlx\bitmap	The folder where you can place custom images you plan to use.
~\<packagename>\wlx\certs	The folder where you can place the CA certificates that can be imported to a thin client. <p>Note Use the Certs and ImportCerts INI parameters in the wlx.ini file to import the certificates to thin clients.</p>
~\<packagename>\wlx\ini	The folder where you can place the {username}.ini files.

Folder	Description
~\<packagename>\addons	The folder where you can place the add-ons you want to use. It also stores the folder file and the *.rpm packages available to be installed on the thin client. The folder file should list all available add-ons. The folder file is required in the add-ons folder to guarantee that add-ons are properly located.

**Note**

If a folder does not contain a required file for the package, the folder can be omitted from the package folder structure. For example, if the package contains no graphics, the \wlx\bitmap folder is not required.

After you register the package, the thin client management program stores the package files in the software repository under c:\inetpub\ftproot\Rapport\<packagename>.

**Caution**

Do not attempt to modify a registered package located in the Rapport folder. To modify a package, create and register a new package that includes the required changes.

Scripts

You use the following scripts when you create a Dell Wyse Device Manager package.

**Note**

The examples for each script use variables for the filenames, which are different for each release.

install-sletc-addons.sh

```
#!/bin/bash
source /tmp/update-addons-list
WYSE_INIT_ADDON_UPDATE=/etc/wyseinit_factory_reset
NEED_REBOOT=no
for A in ${UPDATE_ADDONS_LIST} ; do
if [ -e /tmp/${A} ] ; then
/usr/sbin/addon-install /tmp/${A}
# Find WYSE_INIT addon among the list of
specified addons
WYSE_INIT=${A:0:9}
if [ "$WYSE_INIT" = "wyse_init" ] ; then
/bin/touch $WYSE_INIT_ADDON_UPDATE
/bin/sync
NEED_REBOOT=yes
fi
fi
done
sync
# WYSE_INIT addon needs reboot
if [ "$NEED_REBOOT" == "yes" ] ; then
/sbin/init 6
Fi
```

update-addons-list

```
# Quick guide
# Copy all the add-ons needs to be installed in to this directory
```

```

~install-sletc-addons/install-sletc-addons/
# Specify list of add-ons to be installed/updated preferably order
in which you wish to install as explained below
#
# Do not modify below line
UPDATE_ADDONS_LIST=
# Specify each add-on full name in separate line, with leading one
space enclosed inside quotes, as shown in below example
# Example:-
# Lets say you want to install following two add-ons
# abcd-xyz-1.1.1.sletc11sp3.rpm and aaaa-xxxx-2.2.2.sletc11sp3.rpm
# Specify these two add-ons as below
# UPDATE_ADDONS_LIST+=" abcd-xyz-1.1.1.sletc11sp3.rpm"
# UPDATE_ADDONS_LIST+=" aaaa-xxxx-2.2.2.sletc11sp3.rpm"
#
UPDATE_ADDONS_LIST+=" abcd-xyz-1.1.1.sletc11sp3.rpm"
UPDATE_ADDONS_LIST+=" aaaa-xxxx-2.2.2.sletc11sp3.rpm"

```

CiscoVXME_x.x.rsp



Note

This RSP script is provided as an example; you may need to specify different parameters depending on your environment. For details about how to create RSP files, see the administration guide for your thin client management software.

```

[Version]
Number=CiscoVXME_x.x
Description=Cisco Virtualization Experience Media Cisco Virtualization Experience Media
Engine
OS=SLX
Category=Cisco
USE_Pxe=NO
[Script]
CO "SLX"
LU
SF "<regroot>/*" "/tmp/"
EX "dos2unix /tmp/update-addons-list"
EX "dos2unix /tmp/install-sletc-addons.sh"
EX "/bin/bash /tmp/install-sletc-addons.sh &"
EL

```

Schedule an Update or a Push

There are different methods that you can use to schedule an update or push a package to the thin clients. For more information about these methods, see the documentation for the thin clients and for the thin client management tool.



Important

We strongly recommend that you use the Default Device Configuration (DDC) method to push packages to the thin clients. The Drag-and-Drop method may function, but it is only recommended in small environments or for test purposes. Drag-and-Drop does not function at all for thin clients behind a Cisco AnyConnect VPN.

Enable AutoLogin

AutoLogin is disabled by default (AutoLogin=no). If enabled, the AutoLogin feature automatically logs the user in as the Default User, unless you cancel the AutoLogin before the Countdown interval expires. You can cancel AutoLogin by pressing the ESC key. This feature is useful for kiosk environments.

To enable the AutoLogin feature, change the AutoLogin parameter in the wlx.ini file to AutoLogin=yes. For more information about how to edit the wlx.ini file, or about the AutoLogin or Countdown parameters, see the INI reference guide for the thin client.

User Mode

If you enable AutoLogin, the thin client automatically boots and signs in as the default user (*thinuser mode*), which restricts user access.

In thinuser mode, the FireFox shortcut does not appear in the Start menu and xterm does not appear in the Application Browser. Users can access System Information by clicking an icon in the notification area of the task bar. To set up access to FireFox, edit the wlx INI file to specify the required parameters.

Example:

```
CONNECT=BROWSER \
Description="Cisco Home Page" \
URL=http://www.cisco.com \
Resolution=FullScreen \
Mode=Normal
```

After application of the new wlx INI file, an icon for FireFox appears on the thin client desktop. For more information about how to edit the wlx INI file, see the INI reference documentation for your device.



Note

Dell Wyse thin client users do not have access to the WDM icon in thinuser mode. This behavior is expected because users do not need this access. If you require access WDM to troubleshoot device check-in issues, you can open the application from xterm. For more information about how to manage Dell Wyse thin clients, see the administrator guides for your base image version.
