Multiple Java Plug-in Installation to Access CTC

Document ID: 64021

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This document describes the procedure to install multiple Java Plug-in releases in order to access Cisco Transport Controller (CTC).

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Cisco Transport Controller
- Cisco ONS 15454/15327

Components Used

The information in this document is based on these software and hardware versions:

- Cisco Transport Controller
- Cisco ONS 15454/15327
- Internet Explorer, Netscape and Mozilla (in order to use three different Java Runtime Environment (JRE) versions on the same PC)

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

Background Information

This section provides the required background information to help you understand the contents of this document better.

Multiple Java Plug-in Releases

When you install multiple Java Plug–in releases, you can eliminate the need to remove and reinstall a different release of Java Plug–in in order to access the multiple Cisco ONS15454/15327 operational software releases successfully. After the implementation, you simply launch the relevant browser based on the operating software release of the node you want to access.

Browser Information

The browser on which you launch CTC depends on the Java 2 Runtime Environment, Standard Edition (J2SE) JRE version that the ONS 15454 or 15327 supports. Table 1 lists the relevant browser for each version.

Version Supported by ONS 15454 or 15327 Browser to be Used to Launch CTC J2SE JRE Release 1.2.2 Microsoft Internet Explorer J2SE JRE release 1.3.2 Netscape J2SE JRE release 1.4.2 Mozilla

Mozilla Installation

You must install Mozilla, even if you have already installed Internet Explorer and Netscape. When you install all the three browsers, you can use three different JRE versions on the same PC.

In order to install Mozilla, the first step is to download Mozilla release 1.7.1 from www.mozilla.org \Box . The file name is **mozilla–win32–1.7.1–installer**. Complete these steps:

1. Run mozilla-win32-1.7.1-installer. The Mozilla Setup – Welcome window appears (see Figure 1).

Figure 1 Mozilla Setup: Welcome Window



2. Click Next. The Software License Agreement window appears (see Figure 2).

Figure 2 Software License Agreement Window

<u>7</u>	Mozilla Setup - Software License Agreement							
	riease read the following license agreement. Use the scroll bar to view the rest of this agreement.							
	MOZILLA PUBLIC LICENSE							
	1. Definitions.							
	1.0.1. "Commercial Use" means distribution or otherwise making the Covered Code available to a third party.							
	1.1. "Contributor" means each entity that creates or contributes to the creation of Modifications.							
	1.2. "Contributor Version" means the combination of the Original							
	Click Accept if you accept the terms of the preceeding license agreement. If Decline is clicked, setup will quit.							
	< <u>B</u> ack <u>A</u> ccept <u>D</u> ecline							

3. Read the license, and click Accept. The Setup Type window appears (see Figure 3).

Figure 3 Setup Type Window

🚰 Mozilla Setup - Setup	Туре							
Click the type of setup you prefer, then click Next.								
hozilid	C Bro <u>w</u> ser only	Program will be installed with the minimal options.						
	Complete	Program will be installed with the most common options.						
Ŕ	C C <u>u</u> stom	You may choose the options you want to install. Recommended for advanced users only.						
7 🔨	- Destination Directo							
* *	C:\Program Files\mozilla.org\Mozilla Browse							
	< <u>B</u> a	ck <u>N</u> ext > <u>C</u> ancel						

4. Select the **Complete** radio button. Click **Next**. The Quick Launch window appears (see Figure 4).

Figure 4 Quick Lunch Window

🚰 Mozilla Setup - Quick	Launch 📃 🗌 🗙
mozilla	Quick Launch starts Mozilla faster by keeping portions of the program in computer memory.
	You can access Quick Launch through the icon on the Windows taskbar tray.
A	C 2 12:12
	Check the box below to activate Quick Launch when you restart your computer.
🚣 🌭	Use Quick Launch for faster startup times when possible
	< <u>B</u> ack <u>N</u> ext> <u>C</u> ancel

5. Click Next. The Start Install window appears (see Figure 5).





6. Click **Install** in order to start the installation.

After the installation is complete, a prompt to set Mozilla as the default browser appears (see Figure 6).

Figure 6 Mozilla Installation Completion Message

Mozilla		×
?	Mozilla is not currently set as your default browser. Would you like to make it your default browser?	

7. Click No.

Java Plug-in Installation

Download these releases for Java 2 Runtime Environment, Standard Edition (J2SE) from the web site of Sun Microsystems \Box .

- 1. The J2SE JRE release 1.2.2 (use jre-1_2_2_017-windows-i586.exe or later version).
- 2. The J2SE JRE release 1.3.1 (use j2re-1_3_1_14-windows-i586.exe or later version).
- 3. The J2SE JRE release 1.4.2 (use j2re-1_4_2_06-windows-i586-p.exe or later version).

Note: If you already have Java installed, Cisco recommends that you uninstall all JRE versions, and install them again in the right sequence (see JRE Installation Sequence), after you install Mozilla.

Note: Complete these steps in order to uninstall any existing versions of JRE:

- 1. Choose Start > Settings > Control Panel > Add/Remove Programs.
- 2. Select the JRE version you want to uninstall, and click **Remove**.
- 3. Open Windows Explorer.
- 4. From the Program Files folder, delete all Java and Javasoft folders.

JRE Installation Sequence

Here is the installation sequence:

- 1. Install the J2SE JRE release 1.4.2.
- 2. Install the J2SE JRE release 1.3.1. Choose **Netscape** as the default browser when the prompt appears. Use the default folder to install the JRE. Do *not* change the folder.
- 3. Install the J2SE JRE release 1.2.2. Use the default folder to install the JRE. Do *not* change the folder.

After the installation, create a new Java policy file. You can download the JRE 1.3.1_02, Java Policy Install and Launcher policy from the Cisco Software Download page (registered customers only).

Overwrite the original Java policy file with the new Java policy file for the three J2SE JRE releases. Here is the path to the Java policy file for different releases:

C:\Program Files\<JavaSoft or Java>\JRE\<JRE release>\lib\security\java.policy

JRE Compatibility with ONS 15454 and 15327

Table 2 provides information on the compatibility among ONS 15454/15327 software release, JRE and the browser.

ONS Software Releases Internet Explorer (JRE 1.2.2.x) Netscape (JRE 1.3.1.x) Mozilla (JRE 1.4.2.x) 2.2.0 Yes No No 2.2.1 Yes No No 2.2.2 Yes No No 2.3.4 Yes No No 3.2.1 Yes No No 3.3.0 Yes No No 3.4.0 No Yes No 3.4.1 No Yes No 4.0.1 No Yes No 4.0,2 No Yes No 4.1.0 No Yes No 4.1.3 No Yes No 4.1.4 No Yes No 4.6.2 No Yes No 4.7 No No Yes 5.0 No No Yes

Note: If you use ONS 15454/15327 3.2.1 or 3.3.0 release software, if CTC fails to launch, click **Delete CTC Cache**. Then launch CTC again.

Complete these steps in order to determine the current software release on ONS 15454/15327:

- 1. Open a browser window.
- 2. In the Address bar, type the IP address of the node followed by **/getSwVersion** as shown by the A arrow in Figure 7.

Network connectivity to the node must exist for successful command execution.

Figure 7 Determine the ONS 15454/15327 Software Release



J2SE JRE Setting

This section lists the steps you must complete in order to specify appropriate settings for the J2SE JRE release version that you use.

J2SE JRE Version 1.2.2

Complete these steps in order to specify the settings for J2SE JRE release 1.2.2:

- 1. Choose Start > All Programs > Java Plugin Control Panel.
- 2. In the Java (TM) Plug–in Properties screen, check the **Enable Java Plug–in** check box, and the **Cache JARS in memory** check box in the Basic tab (see Figure 8).

Figure 8 J2SE JRE Release 1.2.2: Basic Settings

 ✓ Enable Java Plug-in ☐ Show Java Console ☑ Cache JARs in memory Ietwork access Applet Host 	3asic	Advanced	Proxies	Certificates	
□ Show Java Console ✓ Cache JARs in memory etwork access Applet Host ava Run Time Parameters					🗹 Enable Java Plug-in
etwork access Applet Host				I	Cache JARs in memory
Java Run Time Parameters	letwo	k access			Applet Host
	Java R	un Time Par	ameters		

- 3. Go to the Advanced tab.
- 4. Select the **Use Java Plug–in Default** option, and check the **Enable Just In Time Compiler** check box (see Figure 9).

Figure 9 J2SE JRE Release 1.2.2: Advanced Settings

asic	Advanced	Proxies	Certificates	
Java F	' Run Time En	vironment	t	
			Use Java Plug-in Default	
			Use Java Plug-in Default	
			JRE 1.2 in C:\Program Files\JavaSoft\JRE\1	.2
			Other	
ath :				
				<u></u>
	Ena Ena	ible Just I	n Time Complier JT path symclit	
	20.00203 <mark></mark>	**********		
Debug) Settings—			
Debug) Settings—	- Enabl	le Debug Debug Dert : 2502	
Debug	I Settings	🗌 Enabl	le Debug Debug Port : 2502	

- 5. Go to the Proxies tab.
- 6. Check the Use browser settings check box (see Figure 10).

Figure 10 J2SE JRE release 1.2.2: Proxy Settings

Basic	Advanced	Proxies	Certificates	
		🗹 Use br	owser settings	
Ргоху	Settings-			
	Туре		Proxy Address	Port
	HTTP			
	Secure			
	FTP			
	Gopher			
	Socks			
			Same proxy server	for all protocols
				1

7. Click Apply.

J2SE JRE Version 1.3.1

Complete these steps in order to specify the settings for J2SE JRE release 1.3.1:

- 1. Choose **Start > Control Panel > Java Plugin 1.3.1_X**.
- 2. In the Java(TM) Plug–in Control Panel window, check the **Enable Java Plug–in** check box, and the **Recycle Classloader** check box in the Basic tab (see Figure 11).

Figure 11 J2SE JRE release 1.3.1: Basic Settings

🌺 Java	a(TM) Plug-ir	n Control P	anel			_ 🗆 ×
Basic	Advanced	Browser	Proxies	Cache	Certificates	About
		☑ En □ Sh ☑ Re □ Sh	able Java ow Java (cycle Clas ow Excep	Plug-in Console ssloader tion Diale	og Box	
		Java	Runtime I	Paramet	ers	
		ļ.	\pply	Reset		

- 3. Go to the Advanced tab.
- 4. Select the **Use Java Plug–in Default** option, and check the **Enable Just in Time Complier** check box (see Figure 12).

Figure 12 J2SE JRE release 1.3.1: Advanced Settings

🎇 Java(TM) Plug-in Control Panel 📃 🔲 🗙
Basic Advanced Browser Proxies Cache Certificates About
Java Runtime Environment
Use Java Plug-in Default 🔹 🔻
Use Java Plug-in Default
JRE 1.2 in C:\Program Files\JavaSoft\JRE\1.2
JRE 1.3.1_14 in C:\Program Files\JavaSoft\JRE\1.3.1_14
Enable Just In Time Compiler
Debug Settings
Enable Debug Connection Address : 2502
Apply Reset

- 5. Go to the Browser tab.
- 6. Check the **Netscape 6** check box (see Figure 13).

Figure 13 J2SE JRE release 1.3.1: Browser Setting



- 7. Go to the Proxies tab.
- 8. Check the Use browser settings check box (see Figure 14).

Figure 14 J2SE JRE release 1.3.1: Proxy Settings

🛃 Java	a(TM) Plug-ii	n Control P	anel			_
Basic	Advanced	Browser	Proxies	Cache	Certificates	About
🗹 Use	e browser se	ettings				
Ргоху	Settings					
	Туре		Proxy Ad	dress	1	Port
	HTTP					
	Secure					
	FTP					
	Gopher					
	Socks					
		[Same p	roxy ser	ver for all prot	tocols
			Apply	Reset		

9. Click Apply.

J2SE JRE Version 1.4.2

Complete these steps in order to specify the settings for J2SE JRE release 1.4.2:

```
1. Choose Start > Control Panel > Java Plugin.
```

2. Select the **Hide console** option in the **Java Console** section, and check the **Show Java in System Tray** check box in the Basic tab (see Figure 15).

Figure 15 J2SE JRE release 1.4.2: Basic Settings

🚔 Java(TM) Plug-in Control Panel	_ 🗆 🗙
Basic Advanced Browser Proxies Cache Certificates Update About	
Java Console O Show console Hide console O Do not start console	
Show Java in System Tray Show Exception Dialog Box	
<u>Apply</u> <u>R</u> eset <u>H</u> elp	

3. Go to the Advanced tab.

4. Select the Use Java Plug-in Default option (see Figure 16).

Figure 16 J2SE JRE release 1.4.2: Advanced Settings

📥 Java(T	M) Plug-in Co	ontrol Panel						_	I X
Basic	Advanced	Browser	Proxies	Cache	Certificates	Update	About		
_Java Ru	ntime Enviro	nment							
Use Ja	iva Plug-in Di	efault						•	•
Use Ja	va Plug-in De	efault							
JRE 1.4	4.2_06 in C:\F	Program File:	s\Java\j2re1	.4.2_06					
Other									4
Java Run	time Parame	ters							
			App	ily <u>R</u>	eset <u>H</u> e	lp			

5. Go to the Browser tab.

6. Check only the Mozilla 1.1 or later check box (see Figure 17).

Figure 17 J2SE JRE release 1.4.2: Browser Settings

불 Java(T	'M) Plug-in Co	ontrol Panel							×
Basic	Advanced	Browser	Proxies	Cache	Certificates	Update	About		
Settings									_
Java(TM) Plug-in will be used as the default Java Runtime in the following browser(s):									
	Microsoft Int	ernet Explore	er						
	Netscape 6	or later							
) Mozilla 1.1 o	rlater							
			App	ly <u>R</u>	eset <u>H</u> e	ql			

- 7. Go to the Proxies tab.
- 8. Check the Use Browser Settings check box (see Figure 18).

Figure 18 J2SE JRE release 1.4.2: Proxy Settings

🛓 Java(TM) Plug-in Control Panel										
Basic Advanced Browser A	Proxies Cache Certificates Up	date About								
✓ Use Browser Settings										
Protocol	Address	Port								
НТТР										
Secure										
FTP										
Gopher										
Socks										
No Proxy Host (Use comma to sepa Automatic Proxy Configuration URL	rate multiple hosts)									
	<u>A</u> pply <u>R</u> eset <u>H</u> elp									

9. Go to the Cache tab.

10. Check the **Enable Caching** check box (see Figure 19).

Figure 19 J2SE JRE release 1.4.2: Enable Caching

🚖 Java(TM) Plug-in Control Panel 📃 🗖											
Basic Advanced	Browser Proxies Cache Certificates Update About										
🗹 Enable Caching	<u>V</u> iew <u>C</u>	lear									
Cache Settings											
Location C:\Documents and Settings\Administrator\Application Data\Sun\Java\Deployme											
Size	⊖ Unlimited										
	Maximum 50 MB										
Jar Compression	· · · · · · · · · · · · · · · · · · ·	-									
	None H	ligh									
	Apply Reset Help										

Verification

Complete these steps in order to verify the installation:

- 1. Open the appropriate browser. For information on the browser to use, see Table 1.
- 2. Launch Metro Planner to verify whether the application executes successfully.

Note: If you use Metro Planner release 2.5, you need to locate and create a .bat file so that Metro Planner works.

Note: When you access ONS 15454/15327 that runs release 4.x.x, a window can appear to indicate that an older policy file exists. The window prompts you to overwrite the policy file. Check the **Don't show this message again** check box, and click **NO**. If you click **YES**, the original Java policy file is set as the default file, and you can no longer access release 2.x.x.

Related Information

- JRE Download, Installation and Compatible Matrix with CTC for ONS 15454 and 15327
- Technical Support & Documentation Cisco Systems

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Updated: Nov 02, 2006

Document ID: 64021