Integrating Java™ Runtime into Windows® Embedded Standard 7

By Sean D. Liming and John R. Malin SJJ Embedded Micro Solutions

April 2010

The Image Configuration Editor (ICE) not only allows you to add custom files and drivers to the answer file, but you can also execute commands during the installation process.

Java is not part of the distribution share, so you will need to download the installer package from <u>www.java.com</u>. Place the java installer in a folder under the \$OEM\$ Folders, so that it will install under c:\setup (\\$OEM\$ Folders\Java\\$OEM\$\\$1\Setup).

File Edit View Tools Help	
🍓 Organize 🔻 📲 Views 👻 🚯 Burn	
Favorite Links Documents Find Pictures Music More >>	Name Date modif Type Size Unspecified (1)
Folders	×
 DS SOEM\$ Folders Java SOEM\$ SOEM\$ SI Setup 	•

In ICE, right-click on the Java folder and select Insert OEM Folders Path. Java is added to the OEmFolderPaths under Foundation Core->windows Embedded Edition->Setup.

Answer File	Setting	s Properties			
♂PartitionManager_x86 ⑦ PnpCustomizationsNonWinPE_x86	^		Filter view by: 1	WindowsPE	•
PnpCustomizationsWinPE_x86	Name		🔺 Value	Path	*
PnpSysprep_x86 Printing-Spooler-Core_x86 Security-Licensing-SLC_x86	E 😵	OemFolderPaths		Windowse	ŧ
	Ξ	PathAndCredentia	lls	Windowse	ŧ
G Security-SPP_x86		🐁 Key	97ff6b69	Windowse	e
Security-SPP-UX-SPPCC_x86		Action	AddListItem	Windowse	e
Setup_x86		🚯 Path	%distributionshareroot%\\$OEM\$ Folders\Java\\$OE	EM\$ Windowse	<u>د</u>
SMBServer_x86		🗄 弦 Credentials		Windowse	e
🗇 Smss_x86	+	PageFile		Windowse	e

For the installer to run, make sure the Windows Installer package is also part of the answer file.

The Synchronous Command in ICE can be used to silently install Java run time during the installation process. Java has a number of silent install options. For more information on these options visit: <u>http://java.sun.com/javase/6/webnotes/install/jre/silent.html</u> or use the search engine of your choice to find more information. A Synchronous Command can be applied to 4 passes. To install Java, we will use Pass 7 oobeSystem to run the silent install on the image. We want to install Java in the WES7 image not in WinPE. Passes 1 and 4 the system is still booted into

SJJ Embedded Micro Solutions

WinPE. Pass 7 is when the system is booted into the WES7 image. Pass 6 is for Sysprep audit mode, which is another option to test software.

1. From the Insert menu select Synchronous Command-> Pass7 oobeSystem.

🔠 Untitled* - Windows En	nbedded Standard 2011 : Image (Configurat	ion Editor
File Edit Validate	Insert Tools Community	Help	
i 🔮 🇀 🔂 🕁 🗶 I 🤇	Synchronous Command	•	Pass 1 windowsPE
Distribution Share	Driver Path	•	Pass 4 specialize
C:\Program Files\\	Oem Folders Path		Pass 6 auditUser
SOEM\$ Folders		🗇 E	Pass 7 oobeSystem
— — — · · · · · · ·			the state of the s

2. Enter the command. For our example:

c:\setup\jre-6u18-windows-i586-s.exe /s /v"/qn IEXPLORER=1 ADDLOCAL=ALL UPDATE=1 /L C:\jre.log"

Create Synchronous Command	×
Enter a command line:	Order
c:\setup\jre-6u18-windows-i586-s.exe /s /v"/qn IEXPLORER=	1
ОК	Cancel

3. Click OK and the information is stored in the Foundation Core->windows Embedded Edition->Shell Setup.

Setting	s Properties				
			Filter vi	ew by: 7 OOBE System	•
Name		Value	Path	Pass	•
0	DisableAutoDaylightTimeS		Windowsetup_x86	P4, P5, P7	
+ 🔹	Display		Windowsetup_x86	P4, P5, P6, P7	
46	DoNotCleanTaskBar		Windowsetup_x86	P2, P3, P4, P5, P7	
= 💊	FirstLogonCommands		Windowsetup_x86	P7*	
	SynchronousCommand		Windowsetup_x86	P7*	
	🔌 Action	AddListItem	Windowsetup_x86		
	🚳 Order	1	Windowsetup_x86	P7*	
	🚳 CommandLine	c:\setup\jre-бu18-windows-i586-s.exe /s /v"/qn IEXPLO	Windowsetup_x86	P7*	
	Description		Windowsetup_x86	P7	
	🚳 RequiresUserInput		Windowsetup_x86	P7	
_ 🖃					

Once you have completed adding all the features to the answer file, build an IBW disk from the answer file. During the installation, the Java installer will be copied to the boot disk, and the silent install command will be executed after the OOBE screens run.

Windows is a registered trademark of Microsoft Corporation.