Managing the Microsoft Java VM (MSJVM) with UniBrows

MSJVM and Sun Java Side-By-Side

(For more detail, please visit <u>http://support.browsium.com/</u>, including for a sample UBP file that includes the necessary settings to get the MSJVM working with UniBrows)

Note that Browsium does not make the MS JVM available to corporations to run; corporations must get the Microsoft Java VM directly from Microsoft.

Part 1: Verify your environment

- 1. Install MS JVM 5.0 Build 3805 and restart
- 2. Install MS JVM 5.0 Update Build 3810 and restart
- 3. Create a rule, test at http://javatester.org/version.html



- 4. Install the latest Sun Java SE (this example will use Java 1.6 update 25)
- 5. Go back to the Java Tester site, confirm Java is overridden by the Sun/Oracle Java VM, as shown in the screenshot below:

J Windows XP Mo	de - Wind	ows Virtual PC					-		×
Action 👻 U	ISB 👻 🕺	「ools ▼ Ctrl	+Alt+Del						• 📀 👻
🧷 Java Tester -	What Ver	sion of Java A	re You Running? - Win	dows Internet Explo	rer				
	ub:http://ja	vatester.org/vers	ion.html	✓	🕨 🗙 📴 Bing				P -
🔶 Favorites 🛛 🄏	🖇 Java Teste	er - What Version	of Java Are You Running?) •) • •	g ▼ Pag	ge 🔹 Safety 🕶	Tools +	? • [≫]
Ub UniBrows Test	Mode - Pri	ofile: Basic IE6 P	rofile						
									_
			The version	and vendor	from the JR	lE			_
			Java Version: 1	1.6.0_25 from Sun Mid	crosystems Inc.				
		If Java is	working, you will see	a pink rectangle says something lik	above with one lir e:	ie of te	ext that		
		J	ava Version 1.6.0_ Java Version: 1.3 Java Version	16 from Sun Mic .1 from Apple C : 1.1.4 from Mi	crosystems Inc. Computer, Inc. icrosoft Corp.	or or			
Troubleshooting: If you don't see a pink rectangle above, Java may not be installed. Or ZoneAlarm may be blocking the Java applet/program that displays the pink rectangle. Zone Alarm has a Mobile Code Control feature that, if set to									
Done					😜 Internet			a 1009	% •
🐴 start	📕 Windo	ws Task Manager	🧷 Java Tester - What	V		2	😲 🛃 📕 🎱	<u>6</u> 8 -	5:49 AM

6. Open regedit and load the registry key
HKEY_LOCAL_MACHINE\SOFTWARE\JavaSoft\Java Plug-in\<Version> and set the
value to 0:

💐 Windows XP Mode - Windows Virtual PC					
Action	Ctrl+Alt+Del			• 🕥	
💕 Registry Editor				🗖 🗗 🔁	
File Edit View Favorites Help					
B B My Computer HKEY_CLASSES_ROOT	Name	Type	Data (value pet cet)		
	HideSystemTrayI	REG_DWORD	0x00000000 (0)		
) JavaHome JavaHome	REG_SZ REG DWORD	C:\Program Files\Java\jre6 0x00000001 (1)		
SECURITY	👸 UseNew Java Plugin	REG_DWORD	0×00000001 (1)		
SOFTWARE					
CO7ft5Y Classes	Edit DW0	ORD Value	2 🗙		
	Value nan	ne:			
Gemplus	UseJava	2IExplorer			
Auto Update	⊻alue data	a:	ase		
⊡-⊡ Java Plug-in 	d		<u>H</u> exadecimal Decimal		
🗉 🧰 Java Runtime Er					
i ⊡ Java Update i ⊡ Java Web Start			OK Cancel		
Prefs					
Start 🔛 Windows Task Ma	nager 🔐 Registry E	Iditor	2	🤍 🛄 🧐 💁 😵 5:51 AM	

7. Confirm the Java version went back to MS JVM by visiting the Javatester.org web site (as shown by the screenshot below). This verifies that all JVMs are installed correctly and your environment is compatible.



8. Be sure to change the key in step 6 back to DWORD 1 to re-enable the Oracle Java VM!

Part 2: Create a UniBrows profile to load the MSJVM

- 9. Create a new Profile for the IE6+MSJVM scenario
 - a. Make sure the Browser Engine is IE6
 - b. Make sure that Disable DEP/NX is checked off

Windows XP Mode - Window Action ▼ USB ▼ To	vs Virtual PC	D. A. DER		×
UniBrows Configuration I	Manager		Current Project	t: (New Project)
Ub UniBrows 1.1 Config Manager	Profiles \ Setting Current Profile: IE6 and M Basic Settings Custom Files	IS Editor SXM 5 Build 3810 V Custom Registry Variables Content Handlers		
File	Name	IE6 and MSJVM 5 Build 3810		
Rules	Browser Engine	Internet Explorer 6		~
Profile List	Scope User Agent String	User Mozilla/4.0 (compatible; MSIE 6.0; Trident/3.0; Windows NT 5.	1; SV1; .NET E	
Settings Editor	File Download Timeout	5 Seconds		
	Window Session Mode Context Menu Handler	Shared		
	Windows Execution O	ptions Support (Windows XP SP3 and above)		
🛃 start 📃 🖳 Window	s Task Manager 🛛 🔟 UniBrows Co	nfigurati	Q 🗘 🜖	📕 🧐 🏂 6:00 AM

- 10. Add a new custom registry entry in the UniBrows Configuration Manager that sets the following registry value (see the screenshot below):
 - a. Registry Hive: HKEY_LOCAL_MACHINE
 - b. Registry Key: SOFTWARE\JavaSoft\Java Plug-in\<Version>
 - c. Value Name: UseJava2IExplorer
 - d. Value Type: DWord (32-Bit Integer) (REG_DWORD)
 - e. Value Data: 0

Custom Registry Value	Editor	×
Registry Hive	HKEY_LOCAL_MACHINE	
Registry Key	SOFTWARE\JavaSoft\Java Plug-in\1.6.0_25]
Value Name	UseJava2IExplorer]
Value Type	DWord (32-Bit Integer) (REG_DWORD)]
Value Data	0	
	<u>C</u> ancel <u>O</u> K]

Part 3: Test the new configuration

- 11. Enable Test Mode and set the Test Mode Profile to the new MSJVM profile you created in step 10 (Settings.Enable Test Mode)
- 12. Save local settings using the Configuration Manager (File.Local Settings.Save Local Settings)
- 13. Open Internet Explorer to <u>http://javatester.org/version.html</u>. It should load up Sun Java and look like this:



14. Open a new tab, and type the following URL into the address bar (this will navigate to the same site, but this time will use your new MSJVM profile): "ub:http://javatester.org/version.html" The new tab should look like this:

🖉 Java Tester - Wha	at Version of Java Are You Running? - Windows Internet Explorer	
🔄 🖸 🖉 ub:h	ttp://javatester.org/version.html 🔹 🐓 🗙 🔁 Bing	P -
🖕 Favorites 🛛 😝 👻	🗾 Java Tester 🦉 Java Tester 🗙 🎽 👘 🔹 🔂 🔹 🖃 🔹 Page 🔹 Safety 🔹	Tools 🔹 🕢 👻
Ub UniBrows Test Mod	e - Profile: IE6 and MSJVM 5 Build 3810	
	······································	^
	The version and vendor from the JRE	-
	Java Version: 1.1.4 from Microsoft Corp.	
	If Java is working, you will see a pink rectangle above with one line of text that says something like:	
	Java Version 1.6.0_16 from Sun Microsystems Inc. or Java Version: 1.3.1 from Apple Computer, Inc. or Java Version: 1.1.4 from Microsoft Corp.	
T n a M	roubleshooting: If you don't see a pink rectangle above, Java n ot be installed. Or ZoneAlarm may be blocking the Java pplet/program that displays the pink rectangle. Zone Alarm has hobile Code Control feature that, if set to "Custom", requires you	nay a
Done	See Internet	🔍 100% 🔹 👷

15. Congratulations! You can now run Sun Java JRE and MSJVM side-by-side

Part 4: Assign the MSJVM profile to your site per a rule

16. Now that you have verified that your environment and JVMs are installed correctly, you can assign your new MSJVM profile to your web site/application via a rule in the UniBrows Configuration Manager. Information & guidance on creating rules are available in <u>this KB article</u>.

For more information

Please visit Browsium's support web site at http://support.browsium.com/.