Aras Innovator 11

Client Setup for Internet Explorer on Windows

Document #: 11.0.02014120801 Last Modified: 12/30/2014



Copyright Information

Copyright © 2014 Aras Corporation. All Rights Reserved.

Aras Corporation 300 Brickstone Square Suite 700 Andover, MA 01810

Phone: 978-691-8900 Fax: 978-794-9826

E-mail: Support@aras.com

Website: http://www.aras.com

Notice of Rights

Copyright © 2014 by Aras Corporation. This material may be distributed only subject to the terms and conditions set forth in the Open Publication License, V1.0 or later (the latest version is presently available at http://www.opencontent.org/openpub/).

Distribution of substantively modified versions of this document is prohibited without the explicit permission of the copyright holder.

Distribution of the work or derivative of the work in any standard (paper) book form for commercial purposes is prohibited unless prior permission is obtained from the copyright holder.

Aras Innovator, Aras, and the Aras Corp "A" logo are registered trademarks of Aras Corporation in the United States and other countries.

All other trademarks referenced herein are the property of their respective owners.

Notice of Liability

The information contained in this document is distributed on an "As Is" basis, without warranty of any kind, express or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose or a warranty of non-infringement. Aras shall have no liability to any person or entity with respect to any loss or damage caused or alleged to be caused directly or indirectly by the information contained in this document or by the software or hardware products described herein.



Table of Contents

Se	nd U	s Your (Comments	4				
Do	ocume	ent Con	ventions	5				
1	Client Configuration							
	1.1 1.2	Installed Software Required Settings						
		1.2.1 1.2.2	Internet Explorer Settings NET Framework Security Policy Settings					
	1.3	Optional	Settings	9				
2	Trou	blesho	oting	10				
	2.1	Manual	NET Security Configuration Tool Errors	.10				
		2.1.1 2.1.2 2.1.3	Running the Tool without Downloading Application Error Running sdns.exe sdns.exe Error: Access denied	. 10				
	2.2	Errors D	uring Login	.11				
		2.2.1 2.2.2	.NET Error During login Microsoft .NET 4.5					
	2.3	Files Dis	play in the Aras Innovator Window	.12				
		2.3.1	IE Settings for Disabling Files from Opening in Innovator Windows	. 13				
	2.4 2.5 Windo 2.6	ActiveX	control is deactivated when other applications are docked with Internet Explorer on t top creen randomly takes a long time to load	the .13				
	2.0	2.6.1	Disabling Auto Detect proxy settings					
	2.7 Innov	lefined language pack and locale are not properly displaying when connected to Ara	IS					
		2.7.1 2.7.2	Internet Explorer 9 Internet Explorer 10 or Internet Explorer 11					
	2.8 2.9	•	Tear-off Window Causes IE to Crash s to a web application cause a timeout error					
3	IT Sy	/stem A	Administrator Push Configuration	21				
	3.1	.NET Fra	amework 2.0 Configuration	. 22				



Send Us Your Comments

Aras Corporation welcomes your comments and suggestions on the quality and usefulness of this document. Your input is an important part of the information used for future revisions.

- Did you find any errors?
- o Is the information clearly presented?
- o Do you need more information? If so, where and what level of detail?
- Are the examples correct? Do you need more examples?
- What features did you like most?

If you find any errors or have any other suggestions for improvement, indicate the document title, and the chapter, section, and page number (if available).

You can send comments to us in the following ways:

Email: Support@aras.com Subject: Aras Innovator Documentation

Or,

Postal service: Aras Corporation 300 Brickstone Square Suite 700 Andover, MA 01810 Attention: Aras Innovator Documentation

Or,

FAX: 978-794-9826 Attn: Aras Innovator Documentation

If you would like a reply, provide your name, email address, address, and telephone number.

If you have usage issues with the software, visit http://www.aras.com/support/



Document Conventions

The following table highlights the document conventions used in the document:

Table 1: Document Conventions

Convention	Description
Bold	This shows the names of menu items, dialog boxes, dialog box elements, and commands.
	Example: Click OK .
Code	Code examples appear in courier text. It may represent text you type or data you read.
<mark>Yellow highlight</mark>	Code with yellow highlight is used to draw attention to the code that is being indicated in the content.
Yellow highlight with red text	Red color text with yellow highlight is used to indicate the code parameter that needs to be changed or replaced.
Italics	Reference to other documents.
Note:	Notes contain additional useful information.
Warning	Warning contains important information. Pay special attention to information highlighted this way.
Successive menu choices	Successive menu choices may appear with a greater than sign (>) between the items that you will select consecutively.
	Example: Navigate to File> Save> OK.



1 Client Configuration

1.1 Installed Software

Aras Innovator 11 requires the following:

- Internet Explorer 9, Internet Explorer 10, or Internet Explorer 11 on Windows 7, Windows 8, or Windows 8.1.
- .NET 3.5 SP1.
- MSXML6.

1.2 Required Settings

The following steps require administrative rights to complete.

1.2.1 Internet Explorer Settings

Once you have logged into the client PC machine as an administrator, configure Internet Explorer 9, 10 or 11 using the following steps:

- 1. Open an Internet Explorer window.
- 2. Navigate to Tools --> Internet Options --> Security.
- 3. Select the Trusted sites zone and click Sites.

The Trusted sites window is displayed.

- 4. Type the URL for the Innovator in Add this website to the zone: and click Add.
- 5. Clear the Require the server verification (https:) for all sites in this zone checkbox.
- 6. Click Close to exit from the Trusted sites window.
- 7. In the Security tab, clear the Enable Protected Mode checkbox.
- 8. Click Custom level....

The Security Settings - Trusted Sites Zone window is displayed.

- 9. Configure the following settings (scroll down to find an appropriate option).
 - o NET Framework-reliant components
 - Select Enable for Run components signed with Authenticode.
 - ActiveX controls and plug-ins
 - Select **Disable** for **Allow ActiveX Filtering**.
 - Select Enable for Download signed ActiveX controls.
 - Select Enable for Run ActiveX controls and plug-ins.
 - Select Enable for Script ActiveX controls marked safe for scripting.
 - o Downloads
 - Select Enable for File download.



- o Miscellaneous
 - Select Enable for Allow script-initiated windows without size or position constraints
 - Select Enable for Allow websites to open windows without address bar or status bar.
- Scripting
 - Select Enable for Active scripting.
- 10. Click OK.
- 11. Click General tab.
- 12. In the Browser History section, click Settings.

The **Temporary Internet Files and History Settings** window is displayed.

- 13. Select Automatically for Check for newer versions of stored pages.
- 14. Click OK.
- 15. In the Tabs section, click Settings.

The Tabbed Browser Settings window is displayed.

- 16. Select Always open Pop-ups in a new window for the When a pop-up is encountered: section.
- 17. Click **OK**.
- 18. Click Advanced tab and configure the following settings:
 - Select the **Disable script debugging (Internet Explorer)** checkbox.

Aras recommends disabling script debugging for any user not actively debugging their client machine. This is only recommendation and not a requirement. For more information, refer to <u>2.5 ActiveX control is deactivated when other applications are docked with Internet Explorer</u> on the Windows Desktop.

• Select the Disable script debugging (Other) checkbox.

Aras recommends disabling script debugging for any user not actively debugging their client machine. This is only recommendation and not a requirement. For more information, refer to 2.5 ActiveX control is deactivated when other applications are docked with Internet Explorer on the Windows Desktop.

- o Clear the Display a notification about every script error checkbox.
- 19. Click **OK**.
- 20. In the Internet Explorer menu, Navigate to Tools --> Compatibility View Settings.
- 21. If the URL for the Aras Innovator instance exists in the **Websites you've added to Compatibility View:** list, click **Remove**.
- 22. Click Close to commit the changes to Compatibility View Settings.



1.2.2 .NET Framework Security Policy Settings

While the Aras Innovator 11.0 client does not require a .NET security policy for FireFox, one is still required for Internet Explorer. The Internet Explorer client uses the .NET controls for features not yet available in Firefox.

Aras has supplied a batch file that can be run on the PC client machine called the Manual .NET Security Configuration Tool. The file (sdns.exe) can be obtained from the <u>Aras Corporation support website</u>.

- 1. Open Internet Explorer
- 2. Type in the following web address:

http://www.aras.com/support/downloads/download.aspx

- 3. Download the Manual .NET Security Config Tool [sdns.exe utility] to your hard drive
 - a. Click Manual .NET Security Config Tool [sdns.exe utility].
 - b. When prompted to Run or Save, click Save.

The desktop is the easiest location to download to and find the file later.

Note: This utility [sdns.exe] must be executed from a local hard drive and not internet cache or a network drive. Once you have the file on your hard drive, you can execute the utility to set your security policy. For ease of explanation, we assume, you saved the file on the desktop of the logged in user.

- 4. Close all Internet Explorer windows.
- 5. Right-click on the file and select Run as administrator from the menu.

The Set .Net Security window is displayed

者 Set .NET Se	curity	
URL:	http://localhost/InnovatorServer	
	OK Close	

Figure 1.

- 6. In the URL field enter the full URL path, provided by your administrator, used to login.
 - o Example: In the case of a default local install, it would be, http://localhost/InnovatorServer
 - o Example: In the case of myInnovator.com, this would be http://myInnovator.com
- 7. Select OK.
 - While your security policies are being set, it displays the progress in the status bar 'Setting security settings for .NET 2.0'
- 8. Once the security policies are set, click **Close**.
- 9. Open a new Internet Explorer window, when ready to log into the site.

If the configuration tool fails to load when double clicked, it indicates that no .NET Framework is installed. You should contact your system administrator about installing the necessary framework.

1.3 Optional Settings

The Gantt chart in Aras Innovator may appear different when printed. The printed Gantt chart may appear different due to the missing background colors and images. You can fix this issue by configuring few settings on the client machine.

To fix or prevent this issue, you can configure the following settings (for Internet Explorer 9, 10, or 11):

- 1. Open an Internet Explorer window.
- 2. Navigate to File --> Page Setup....

The Page Setup dialog box is displayed.

Page Setup	×
Paper Options Page Size: Letter Portrait Clandscape Print Background Colors and Images Enable Shrink-to-Fit	Margins (inches) Left: 0.75 Right: 0.75 Top: 0.75 Bottom: 0.75
Headers and Footers Header: Title	Footer: ▼ URL ▼
-Empty-	▼ -Empty- ▼
Page # of total pages Change font	▼ Date in short format ▼
	OK Cancel

Figure 2.

- 3. Select Print Background Colors and Images check box.
- 4. Click OK.

2 Troubleshooting

In this section, we outline some of the common problems people can encounter with the setting up the client.

2.1 Manual .NET Security Configuration Tool Errors

This section describes various issues logged with Aras support using the Manual .NET Client Configuration Tool.

2.1.1 Running the Tool without Downloading

If you attempt to run the tool without downloading it to the local machine first, an error is displayed telling the tool failed to run. Follow these alternate steps for downloading the tool.

- 1. Open Internet Explorer
- 2. Type in the web address: <u>http://www.aras.com/support/downloads/download.aspx</u>.
- 3. Download the Manual .NET Security Config Tool [sdns.exe utility] to your hard drive
 - a. Click Manual .NET Security Config Tool [sdns.exe utility] link.
 - b. Click Save As....

The desktop is the easiest location to download to and find the file later.

2.1.2 Application Error Running sdns.exe

If the configuration tool fails to load when double clicked with the following error, it indicates that no .NET Framework is installed. You should contact your system administrator about installing the necessary framework.

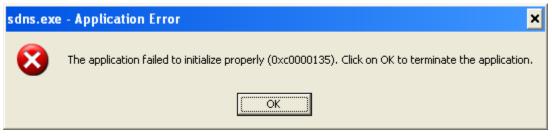


Figure 3.

If you want to do this yourself, use the following link to download the .NET Framework 3.5 SP1: Microsoft .NET Framework 3.5 Service Pack 1

http://www.microsoft.com/en-us/download/details.aspx?id=22

After installing this, repeat the steps in this section.

2.1.3 sdns.exe Error: Access denied

If the configuration tool gives the error 'ERROR: Runtime error: Access denied. You might not have administrative credentials to perform this task. Contact your system administrator for assistance.' You

should first make sure you ran the sdns.exe by right-clicking on the file and selecting 'Run as administrator' from the context menu. If this menu option is not present, it indicates that you do not have administrative privileges on your machine to modify the .NET security policies. You need to contact your system administrator to request the change to the .NET Security policies on your machine.

Error		83
8	ERROR: Runtime error: Access denied. You might not have administrative credentials to perform this task. Contact your system administrator for assistance.	
	OK	

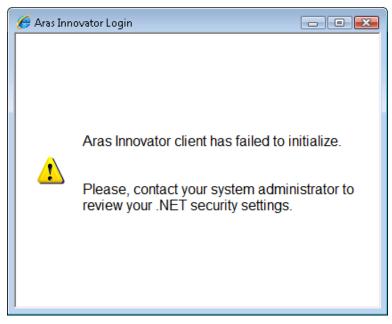
Figure 4.

2.2 Errors During Login

This section describes the common error messages shown during login to Aras Innovator when there are problems with the .NET security policies.

2.2.1 .NET Error During login

If the login screen fails to load with the following error, this indicates one of two things. Either you do not have a security policy set, or you do not have any .NET Framework installed.





Confirm that you have gone through the steps in section 2 to configure the security policy. To confirm the policy was set correctly, run the following command in a command prompt:

C:\Windows\Microsoft.NET\Framework\v2.0.50727\CasPol.exe -a -ld

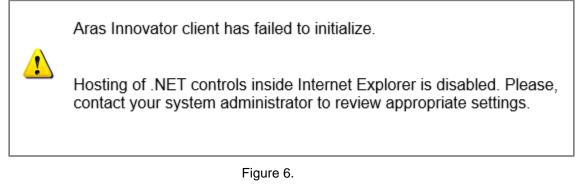
The URL for your Aras Innovator instance should be listed once in the return of this command. If your policy is listed in the response from the command, contact your system administrator about installing the necessary .NET framework.

If you want to do this yourself, use the following link to download the .NET Framework 3.5 SP1: Microsoft .NET Framework 3.5 Service Pack 1 <u>http://www.microsoft.com/en-us/download/details.aspx?id=22%20</u>

After installing this, repeat the steps in section 2 to configure your security policy.

2.2.2 Microsoft .NET 4.5

When .NET 4.5 is installed, a message is displayed that indicates your .NET policy must be applied again.



In .NET 4.5, the .NET browser hosting controls for Internet Explorer have been removed. When .NET 4.5 is installed the existing hosting is also disabled for .NET 3.5. You need to manually enable this hosting for Internet Explorer to return to your previous working state.

To fix this issue, add the following registry key on the client PC:

• For 32-BIT environments:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\.NETFramework
"EnableIEHosting"=dword:00000001
```

• For 64-BIT environments:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\.NETFramework
"EnableIEHosting"=dword:00000001
```

2.3 Files Display in the Aras Innovator Window

Certain file type can use Internet Explorer as the default program to be viewed in. The example in this section uses an XML document. When an XML document is open in most systems, it uses Internet Explorer as the viewer. The default setting has the XML file open in any open Internet Explorer windows, if possible. If this file opens in the Aras Innovator window, it can invalidate this window for further use with the Aras Innovator session. If this file opens in the main Aras Innovator window, it can invalidate the entire Aras Innovator session for the user.

At this time, there are two main solutions for this problem:



- Solution 1: Associate the file type with a viewer other than Internet Explorer. Changing the viewer associated with the file type must be done on a file type by file type basis.
- Solution 2: Disable the ability for these files to open in existing Internet Explorer windows. This second option forces the XML file to be opened in a new Internet Explorer window, rather than any existing window. Refer to the below section on how to disable this feature.

2.3.1 IE Settings for Disabling Files from Opening in Innovator Windows

- 1. Open Internet Explorer
- 2. Select **Tools** --> **Internet Options** in the main menu.
- 3. Select Advanced tab
- 4. In the Browsing section, clear **Reuse windows for launching shortcuts** option.
- 5. Click Apply.

2.4 MSXML

Aras Innovator requires MSXML6 on the client. This may not be installed by default on some PCs, and may require explicit installation from the Microsoft website.

2.5 ActiveX control is deactivated when other applications are docked with Internet Explorer on the Windows Desktop

Certain applications, such as chat programs, have a docking feature with the Windows Desktop. This docking allows the program to appear to snap into the displayed desktop along one of the edges. The effect this has on Aras Innovator is that the user is prompted to activate UI controls (menus, grids, trees, etc). Below is an example of the type of prompt a user can see.

Click to activate and use this control

Figure 7.

The cause of the problem is that Internet Explorer is incorrectly determining the script debugging state once an application is docked. Once an application is docked, a windows message is sent to all top-level windows. When Internet Explorer receives the message, it is misinterpreting the script debugging state and disabling script debugging internally. This disabling of script debugging internally leads to controls prompting for activation when a page is loaded.

This issue should be fixed in a future update to Internet Explorer. At this time, Aras Corporation recommends that you disable script debugging on client PC machines. The steps for disabling script debugging in Internet Explorer are outlined in <u>Internet Explorer and Client Configuration</u>. If users choose not to disable script debugging, there is a workaround when the error occurs. If a user encounters this error, log out of Aras Innovator and log back in to refresh the client.



2.6 Login Screen randomly takes a long time to load

Certain settings in Internet Explorer could possibly cause the Aras Innovator login screen to take an extended period of time to load. In this instance, for the first login of the day, the login window appears to be loading with a blank white screen for around 90 seconds. After the initial load the login window works fine.

A possible cause for this problem is the system is trying to automatically detect proxy settings on the network. With this setting set to true, your connection will spend time trying to determine whether there is proxy settings on your network it must adhere to.

2.6.1 Disabling Auto Detect proxy settings

- 1. Open Internet Explorer
- 2. Select Tools -->Internet Options.
- 3. Select the **Connections** tab
- 4. Click LAN Settings.
- 5. Clear the Automatically detect settings checkbox.

utomatic configuration may override manual settings. To ensure the se of manual settings, disable automatic configuration.
Automatically detect settings
Use automatic configuration script
Address
roxy server
Use a proxy server for your LAN (These settings will not apply to dial-up or VPN connections).
Addr <u>e</u> ss: Por <u>t</u> : 80 Advanced
Bypass proxy server for local addresses



2.7 My pre-defined language pack and locale are not properly displaying when connected to Aras Innovator

The localization settings for the client are pulled from the 'Languages' setting of Internet Explorer as opposed to the 'Region and Language Settings' of the system. To change the language settings, refer to the steps below.



2.7.1 Internet Explorer 9

- 1. Open Internet Explorer browser and go to **Tools** --> Internet Options.
- 2. In the **General** tab, click **Languages**.

	1					
General	Security	Privacy	Content	Connections	Programs	Advanced
Home p	oage					
~	To cre	ate home	page tabs,	type each add	ress on its	own line.
-1	http	//sphillip	s01/suppo	ort		~
						*
		Use cu	rrent	Use default	Use	blank
Browsi	ng history					
DIONO		temporar	v files bist	ory, cookies, s	aved paces	orde
- +			formation.	ory, cookies, s	aveu passw	ords,
	Del	ete brows	ing history	on exit		
			0. 	Delete		
Search			2	Delete	Set	tings
Searcr						
S	Chang	e search d	letaults.		Set	tings
Tabs -						
	Chang	e how we	nages are	e displayed in	[Set	tings
	tabs.	c now we	spages are	uspiayed in	361	ungs
	tabs.					
Appea	rance —		_			
Appea		Lang	juages	Fonts	Acce	ssibility
Appea	rance —	Lang	juages	Fonts	Acce	ssibility

Figure 9.

3. In the Language Preference dialog box, click Add.

Language Preference Add the languages you use to read websit preference. Only add the ones you need, be used to impersonate websites in other I	as some characters can
Language: English (United States) [en-US]	Move up
English [en]	Move down
	Remove
	Add
Prefix and suffix options	typed web addresses
Do not add 'www' to the beginning of Specify the suffix (for example .net) tha typed web addresses when you press Ct Suffix:	

Figure 10.

- 4. Click Add to add a language such as Japanese (Japan) [ja-JP].
- 5. Select the language and click **OK**.



Internet Options	3	x
Language Preference	X	ed
Add Language	Ŋ	-
Language:		
isiXhosa [xh] isiZulu (South Africa) [zu-ZA] isiZulu [zu] Italian (Italy) [it-IT] Italian (Switzerland) [it-CH] Italian [it]]
Japanese (Japan) [ja-JP]		-
Japanese [ja] Kannada [kn] Kanada [kn] Kazakh (Kazakhstan) [kk-KZ] Kazakh [kk] Khmer (Cambodia) [km-KH] Khmer [km]]
User defined:		h
OK Cancel		-
OK Cance	2	Ĩ
Colors Languages Fonts Acce	ssibility	
OK Cancel	App	oly

Figure 11.

- 6. Close the browser
- 7. Login to Aras Innovator as administrator/innovator.
- 8. Confirm that the selected language is applied.

2.7.2 Internet Explorer 10 or Internet Explorer 11

- 1. Open Internet Explorer browser and go to **Tools** --> Internet Options.
- 2. In the General tab, click Languages.

		h	nternet	Options		? ×
General	Security	Privacy	Content	Connections	Programs	Advanced
Home p	-	ate home j	page tabs,	type each add	ress on its o	own line.
						~
		Use cu	rrent	Use default	Use n	ew tab
Startup) ———					
	tart with ta tart with ho		ne last ses	sion		
	ige how we	bpages a	re displaye	d in tabs.	Ta	abs
Browsin	ng history					
	e tempora information		story, cool	cies, saved pas	swords, and	d web
	elete brow	sing histor	y on exit			
			[Delete	Set	tings
Appear	ance —	_	-			
C	Colors	Lang	juages	Fonts	Acces	ssibility
			Ok	Ca	ancel	Apply

Figure 12.

3. In the Language Preference dialog box, click Set Language Preferences.

Internet Options ?	x
Language Preference	ed
Language Preference Add the languages you use to read websites, listing in order of preference. Only add the ones you need, as some characters can be used to impersonate websites in other languages. Set Language Preferences Changes to Language Preferences will take effect after restarting the browser]
Prefix and suffix options Do not add 'www' to the beginning of typed web addresses Specify the suffix (for example .net) that should be added to typed web addresses when you press Ctrl + Shift + Enter. Suffix: OK Cancel	-] -
Colors Languages Fonts Accessibility	
OK Cancel App	bly

Figure 13.

4. Click Add a Language.

\$₽		Language			- 🗆 🗙
🛞 🕘 👻 🏠 😵 > Control Panel > All Control Panel Items > Language 🔹 🖒 Search Control Panel > Control Panel Items > Language					el P
Control Panel Home Advanced settings Change date, time, or number formats	Change your langu Add languages you want often).	age preferences to use to this list. The language at the top of your list is your p	orimary language (1	the one you want to s	see and use most
	Add a language Remo	ve Move up Move down			
	English (United States)	Windows display language: Enabled Keyboard layout: US Date, time, and number formatting			Options
See also Fonts					
Location					

Figure 14.

- 5. Select a language such as Japanese [ja-JP].
- 6. Click Add (bottom right corner).
- 7. Select the language box and click **Move up** to move the language box at the top.

₩		Add languages			- • ×	
🔄 ⋺ ▾ ↑ 😤 ኑ Control Panel	All Control Panel Items →	Language 🕨 Add languages		v 🖒 Search languages	م]
Add a language Use the search box to find mor	e languages.					
Group languages by: Languag	ge name 🛛 🗸 🗸					
Inuktitut (Latin)	Irish	isiXhosa	isiZulu	Italian	•	
日本語 Japanese	>					
K'iche'	ಕನ್ನಡ	Қазақ	កាសាខ្មែរ	Kinyarwanda		
K'iche'	Kannada	Kazakh	Khmer	Kinyarwanda	5	
Privacy statement				Add	ancel	



- 8. Close the browser.
- 9. Login to Aras Innovator as administrator/innovator.
- 10. Confirm that Japanese Language is applied.

2.8 Closing Tear-off Window Causes IE to Crash

Closing the tear-off window can lead the Internet Explorer window to crash.

The cause behind the crash is the Hang Resistance feature. By default, the Hang Resistance feature is enabled in Internet Explorer 9 (IE9). This leads to long asynchronous requests and causes the crash in IE9.

^{©2014} Aras Corporation All Copyrights Reserved.

To resolve this issue, the Hang Resistance feature needs to be disabled. You can disable the feature by setting the HangRecovery value to 0 in the registry key.

To fix this issue, follow the steps below:

1. On the client PC, click Start, type regedit.

The Registry Editor window is displayed.

- 2. In the left pane, navigate to HKEY_CURRENT_USER --> Software --> Microsoft --> Internet Explorer --> Main.
- 3. In the right pane, click New --> DWORD (32-bit value) to create a new D-Word.

<u>E</u> dit	<u>V</u> iew	F <u>a</u> vorites <u>H</u> elp			
	Þ[🔓 IntelliPoint 🔷 🔺	Name	Туре	Data
	Þ	🔓 IntelliType Pro	CompatibilityFla	REG DWORD	0x00000000 (0)
		Internet Conne	Disable Script D	-	yes
	4 •	Internet Explor	ab DisableScriptDe	-	yes
		Approved I	ab Display Inline Im	-	yes
		ApprovedE	B Do404Search	REG BINARY	01 00 00 00
		AutoComp	DownloadWind	REG BINARY	00 00 00 00 00 00 00 00 00 00 00 00 00
		CaretBrows	ab Enable Browser	REG_SZ	yes
		Desktop	ab FullScreen	REG_SZ	no
		Document	ab IconCache	REG SZ	31 qixng
		DOMStora	IE9RunOnceCo	REG BINARY	ef 2d ca ec 67 2e cf 01
		Download	IE9RunOncePerI	REG_DWORD	0x00000001 (1)
		Geolocatio	IE9TourShown	REG_DWORD	0x00000001 (1)
		GPU	IE9TourShownTi	-	ef 2d ca ec 67 2e cf 01
		Help_Ment	ab Local Page	REG SZ	C:\Windows\system32\blank.htm
		🛛 📔 IETId	100 NoUpdateCheck	REG_DWORD	0x00000001 (1)
			ab Play_Animations	REG_SZ	yes
		🛛 🕕 Internation	ab Play_Backgroun	REG SZ	yes
		🛛 🌗 InternetRe	ab Save_Session_Hi	REG SZ	no
		— 📙 LinksBar 🖳	ab Search Page	REG_SZ	http://go.microsoft.com/fwlink/?LinkId=54896
		Low Rights	ab Show_FullURL	REG_SZ	no
		De LowRegistr	ab Show_StatusBar	REG_SZ	yes
		🛛 📙 Main	ab Show_ToolBar	REG SZ	yes
		⊳ → Feature	ab Show_URLinStat	REG SZ	yes
		Windo\ MAO Settir	ab Show_URLToolBar	-	ves
			ab Start Page	REG SZ	http://go.microsoft.com/fwlink/?LinkId=69157
		MINIE	ab Start Page Redir	-	http://www.msn.com/?ocid=iehp
		New Wind	ab Start Page Redir	REG_SZ	en-US
		PageSetup	Start Page Redir	REG_BINARY	8b 1d 70 6f ef 36 cf 01
		PhishingFil	TabProcGrowth	REG_DWORD	0x0000000 (0)
		Privacy	buse_DlgBox_Col	REG_SZ	yes
		Recovery	ab UseClearType	REG_SZ	no
		SearchScor	Window_Place	REG BINARY	2c 00 00 00 02 00 00 03 00 00 00 00 83 ff ff 00 83 f
		SearchUrl		REG DWORD	0x00000001 (1)
		🔟 Security 🍷	R HangRecovery	REG_DWORD	0x00000000 (0)

- 4. Set the following values:
 - Type: REG_DWORD
 - Name: HangRecovery
 - Value: 0
- 5. Click File --> Exit to close the Registry Editor window.



2.9 Requests to a web application cause a timeout error

When you send many concurrent requests that have the same SessionId to an ASP.NET 4web application, some requests may result in a timeout error. The error is due to some of the requests getting stuck in RequestAcquireStage.

This is a known issue for .NET 4 on Windows Server 2012. Microsoft recommends installing the following hotfix to fix the issue: <u>http://support.microsoft.com/kb/2828842%20</u>



3 IT System Administrator Push Configuration

The .NET Framework comes with a GUI configuration tool that can be used by the system administrator to create and deploy this policy. Microsoft® provides documentation on how to use this tool at the following link:

http://msdn.microsoft.com/en-us/library/2bc0cxhc(v=vs.90).aspx

Microsoft® provides documentation on how to deploy this software, as well, at the following link: http://msdn.microsoft.com/en-us/library/13wcxx6y(v=vs.90).aspx

In this section, we outline the use of the .NET Framework Configuration tool. This tool must be used to set the security policies that should be deployed. The .NET Framework 2.0 GUI requires the .NET Framework 2.0 SDK in addition to .NET 3.5 SP1 in order to access this configuration UI.

.NET 3.5 SP1 can be obtained through Windows Updates, through 'Turn Windows Features on or off', or from the following Microsoft link:

Microsoft .NET Framework 3.5 Service Pack 1

http://www.microsoft.com/en-us/download/details.aspx?id=22

The SDK can be obtained through the following Microsoft link:

.NET Framework Version 2.0 Software Development Kit (x86 required for x64 and x86 systems)

http://www.microsoft.com/en-us/download/details.aspx?id=19988



3.1 .NET Framework 2.0 Configuration

- 1. Navigate to Start --> Settings --> Control Panel and open the Control Panel.
- 2. Double click Administrative Tools.
- 3. Double click Microsoft .NET Framework 2.0 Configuration.
- 4. In the tree on the left hand side, open My Computer --> Runtime Security Policy --> Enterprise --> Code Groups --> All Code.
- 5. Click All Code.
- 6. In the frame to the right, select **Add a Child Code Group**.

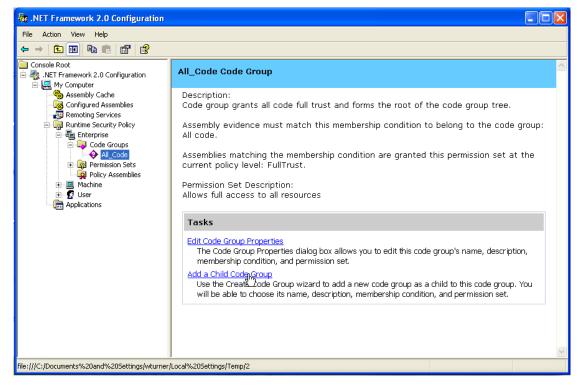


Figure 16.

- 7. Select Create a new code group.
 - a. Give it a meaningful name for you to interpret later

Identify the new Code Group The new code group should have a name and description to help others understand	
its use.	
Create a new code group	
N <u>a</u> me:	
MyInnovator	
Description:	
C Import a code group from a XML File	
< Back Next > Cancel	1

Figure 17.

8. Click Next.

Create Code Group	X
Choose a condition type The membership condition determines whether or not an assembly requirements to get the permissions associated with a code group.	meets specific
Choose the condition type for this code group: URL The URL membership condition is true for all assemblies that origin from the URL specified below. Assemblies that meet this members condition will be granted the permissions associated with this code group. <u>URL:</u> http://myinnovator.com/Client/cbin/* The URL must include the protocol such as 'ftp://' or 'http://'. An asterisk (*) can be used as a wildcard character at the end of the UI Examples: http://twww.microsoft.com/specific_assembly.dll ftp://ftp.microsoft.com/pub/*	
<pre></pre>	Cancel

Figure 18.

- 9. For Choose a condition type, select URL.
- 10. In the URL text box, enter the full site name along with the '/Client/cbin/*' web folder

Example: http://myinnovator.com/Client/cbin/*

11. Click Next.

Create Code Group
Assign a Permission Set to the Code Group Code groups must have an associated permission set. Use an existing one or create a new one.
Would you like to use an existing permission set already defined in this policy level or create a new permission set? • Use exisiting permission set: • FullTrust • Create a new permission set
< <u>B</u> ack <u>N</u> ext > Cancel

Figure 19.

12. Click Next.

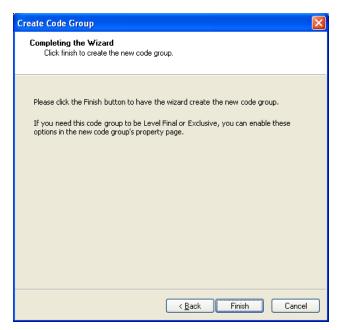


Figure 20.

13. Click Finish.

14. In the Microsoft .NET Framework 2.0 Configuration window, right-click on the newly created node in the Code Group (name you assigned) and select **Properties**.

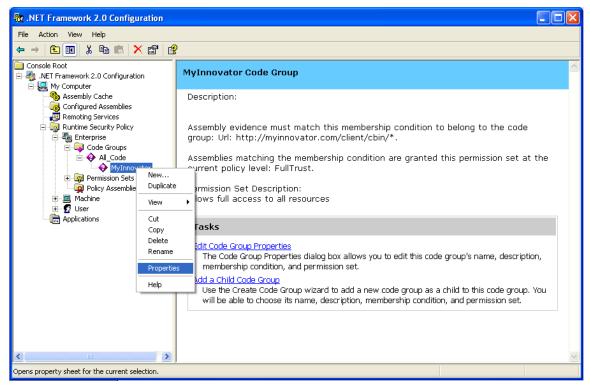


Figure 21.

- 15. On the **General** tab,
 - Select the This policy level will only have the permissions from the permission set associated with the code group checkbox.
 - Select the Policy levels below this level will not be evaluated checkbox.

MyInnovator Properties	×
General Membership Condition Permission Set	_
Code group <u>n</u> ame:	_
MyInnovator	
Code group <u>d</u> escription:	-
If the membership condition is met:	n H
This policy level will <u>o</u> nly have the permissions from the permission set associated with this code group	
✓ Policy levels <u>b</u> elow this level will not be evaluated	
<u> </u>	

Figure 22.

- 16. Select OK.
- 17. Close the Microsoft .NET Framework 2.0 Configuration window.