SSL Tunnel operated with different browsers under

Windows 7

In this document, we will introduce how to connect SSL tunnel between Windows 7 with the IE8 Browser or FireFox Browser and the router (e.g., Vigor2950 series router). There are two versions of IE8 for Windows 7. One is IE8 with 64-bit and the other is IE8 with 32-bit. The supported methods are listed in the below table.

Browser	Start Mode	Java Applet
IE 8 32-bit	ActiveX & Java	Need to install 32-bit JRE
IE 8 64-bit	Java 64-bit only	Need to install 64-bit JRE
Firefox	Java only	Need to install 32-bit JRE

The following figure shows different versions for IE8 (64-bit or 32-bit). If you use IE with 64-bit, the word (64 bit) will be shown obviously.



Configuring Vigor2950 for SSL Tunnel

1. Login the web configurator of Vigor2950 and open **SSL VPN** >> **User Account**.



2. Create an account with Index 1.

VPN and Remote Access >> Remote Dial-in User

Remote Access User Accounts:				Set to Fact	ory Default
Index	User	Status	Index	User	Status
$\left(\underline{1}\right)$	111	V	<u>17.</u>	???	Х
<u>2.</u>	???	Х	<u>18.</u>	???	х
<u>3.</u>	???	Х	<u>19.</u>	???	Х
<u>4.</u>	???	Х	<u>20.</u>	???	х
<u>5.</u>	???	Х	<u>21.</u>	???	Х
<u>6.</u>	???	х	<u>22.</u>	???	х

3. In Index 1, configure the following items for SSL Tunnel. The Username/Password is **111/111**. Then, click **OK**.

Index No. 1	
User account and Authentication	
Enable this account	Username (111
Idle Timeout	Password
	Authentication Type Local User Database 💌
Allowed Dial-In Type	Enable Mobile One-Time Passwords(mOTP)
🔽 ISDN	PIN Code
🗆 РРТР	Secret
🗖 IPSec Tunnel	
L2TP with IPSec Policy None	IKE Authentication Method
	Pre-Shared Key
	IKE Pre-Shared Key

VPN and Remote Access >> Remote Dial-in User

- WAN 1 Link Status : Connected MAC Address : 00-50-7F-C3-4D-81 Connection : Static IP IP Address : 172.17.1.209 Default Gateway : 172.17.1.3 Primary DNS Secondary DNS 2 Mode : NAT
- 4. Open System Maintenance>>Status. In this example, the WAN1 IP address is 172.17.1.209.

Connecting SSL Tunnel with IE8 64-bit Browser

After finishing the web configuration for Vigor2950, a remote client can use a browser to connect SSL tunnel.

1. Install Java 6.0 with 64-bit JRE in Windows 7 64-bit first.



- 2. Open Internet Explorer 8 with 64-bit Browser, and go to <u>https://172.17.1.209:443</u>.
- 3. IE8 64-bit will display the following security alert. Please select the item of **Continue to this website**. After that, the login page will be popped up.



4. In the login window, please input the username/password with 111/111.

Username Password	111	
		Login
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5. If login is successful, you will see a window like the one shown below. Click the link of **SSL Tunnel**.

INFO	Home SSL Tunnel	[<u>loqout</u>
111 , (172.17.1.92) Welcome to the DrayTek SSL VPN!	 Main Page: You have successible logged in! You are granted the following privile SSL Tunnel 	eges:

6. IE8 64-bit only supports Java. Please press the **Connect** button.

	Home SSL Tunnel
INFO	Liss CCL Turpel
SSL Tunnel	i use sol runner.
- Click the button to	Warning: 1. Vigor SSL Tunnel requires your browser to support JavaApplet.
establish an SSL Tunnel to the remote network!	If you are using Sun JRE 6.0 or newer versions. Please go to the Java Control Panel and disable TLS 1.0 in Advanced>>Security option.
	3. If you close the browser then the Vigor SSL Tunnel will be disconnected.
	Change the default route to be the remote gateway
	Connect

7. Wait for a few minutes, DraySSL Tunnel Client tool will pop up and dial the connection automatically.



INFO		Connection		
SSL Tunnel	u Us	Profile: DraySSLTunnel D Duration: 00 : 00 : 02	ray Tek	upport JavaApplet.
establish an SSL Tunnel to the remote network!		ActivitySent	Received	ons. Please go to the Java ed>>Security option.
		Bytes: 1,801	288	Tunnel will be disconnected
		Packets: 24	13	note gateway
		Detail Client IP: 192.168.1.10 Server IP: 192.168.1.1 I Using remote network as defaul	lt gateway.	
		Remove Virtual Driver on disconnecti	ing. Disconnect	
		Status: Connected		
				1

8. You can use the ping command to check the connection.

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C: \Documents and Settings \Administrator>ping 192.168.1.1 Pinging 192.168.1.1 with 32 bytes of data: Reply from 192.168.1.1: bytes=32 time=4ms TTL=255 Reply from 192.168.1.1: bytes=32 time=4ms TTL=255

Connecting SSL Tunnel with IE8 32-bit Browser

After finishing the web configuration for Vigor2950, a remote client can use a browser to connect SSL tunnel.

1. Install Java 6.0 with 32-bit JRE in Windows 7 64-bit first.



- 2. Open Internet Explorer 8 32-bit Browser, and go to https://172.17.1.209:443.
- 3. IE8 64-bit will display the following security alert. Please select the **Continue to this website** choice. After that, the login page will be popped up.



4. In the login window, please input the username/password with 111/111.

Username Password	111	
		Login
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5. If login is successful, you will see a window like the one shown below. Click the link of **SSL Tunnel**.

	Home SSL Tunnel	[logout
NFO	Main Page:	
111 , (172.17.1.92) Welcome to the DrayTek SSL VPN!	You have successfully logged in! You are granted the following privileges: • <u>SSL Tunnel</u>	

6. IE8 32-bit supports Java and Active X options for connecting SSL Tunnel. Choose either one of them.



• Select Active X and press **Connect** button. Wait a few minutes, DraySSL Tunnel Client tool will pop up and dial the connection automatically.



• Select Java and press **Connect** button. Wait a few minutes, DraySSL Tunnel Client tool will pop up and dial the connection automatically.

INFO		Tuppol:			
• SSL Tunnel - Click the button to establish an SSL	G I. Run	as ActiveX			
network!	Warni	Dr sySSLTunnel Connection Profile: Dr Duration: Activity Bytes: Packets:	Client aySSLTunnel 00:00:02 <u>Sent</u> 1,801 24	Received 288 13	Sort JavaApplet. Please go to the Java Security option. hel will be disconnected gateway
		Detail Client IP: Server IP: Using remo Remove Virtual I	192. 168. 1 . 10 192. 168. 1 . 1 te network as default Driver on disconnectir	t gateway.	Tek Corp. All Rights Reser

7. You can use the ping command to check the connection.

-

```
C: \Documents and Settings \Administrator>ping 192.168.1.1
Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time=4ms TTL=255
```

Connecting SSL Tunnel with FireFox3.6

After finishing the web configuration for Vigor2950, a remote client can use a browser to connect SSL tunnel.

1. Install Java 6.0 with 32-bit JRE in Windows 7 64-bit first.



- 2. Open FireFox3.6 Browser, and go to https://172.17.1.209:443.
- 3. FireFox will display the following security alert. Please select the choice of **I understand the risks** first, and then choose **Add Exception**.

~2	You have asked Firefox to connect securely to 172.17.1.209 , but we can't confirm that your connection is secure.
	Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified.
	What Should I Do?
	If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue.
	Get me out of here!
	Technical Details
<	I Understand the Risks
Ž	This Connection is Untrusted You have asked Firefox to connect securely to 172.17.1.209, but we can't confirm that your
2	This Connection is Untrusted You have asked Firefox to connect securely to 172.17.1.209 , but we can't confirm that your connection is secure.
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Ż	This Connection is Untrusted You have asked Firefox to connect securely to 172.17.1.209, but we can't confirm that your connection is secure. Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified. What Should I Do?
Ż	This Connection is Untrusted You have asked Firefox to connect securely to 172.17.1.209, but we can't confirm that your connection is secure. Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified. What Should I Do? If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue.
Ż	This Connection is Untrusted You have asked Firefox to connect securely to 172.17.1.209, but we can't confirm that your connection is secure. Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified. What Should I Do? If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue. Get me out of here!
2	This Connection is Untrusted You have asked Firefox to connect securely to 172.17.1.209, but we can't confirm that your connection is secure. Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified. What Should I Do? If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue. Get me out of here! Technical Details
2	This Connection is Untrusted You have asked Firefox to connect securely to 172.17.1.209, but we can't confirm that your connection is secure. Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified. What Should I Do? If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue. Get me out of here! Technical Details I Understand the Risks
3	 This Connection is Untrusted You have asked Firefox to connect securely to 172.17.1.209, but we can't confirm that your connection is secure. Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified. What Should I Do? If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue. Get me out of here! Technical Details I Understand the Risks If you understand what's going on, you can tell Firefox to start trusting this site's identification. Even if you trust the site, this error could mean that someone is tampering with your connection.
Ż	 This Connection is Untrusted You have asked Firefox to connect securely to 172.17.1.209, but we can't confirm that your connection is secure. Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified. What Should I Do? If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue. Get me out of here! Technical Details I Understand the Risks If you understand what's going on, you can tell Firefox to start trusting this site's identification. Even if you trust the site, this error could mean that someone is tampering with your connection. Don't add an exception unless you know there's a good reason why this site doesn't use trusted identification.

4. At the **Add Security Exception** page, you have to press the **Get Certificate** button first to specify the location of the certificate, and then press the **Confirm Security Exception** button. After that, a login page will be popped up.

Add Security Exception	×
You are about to override how Firefox identifies this site. Legitimate banks, stores, and other public sites will not ask you to do this.	
Server Location: https://172.17.1.209/ Get Certificate	}
Certificate Status This site attempts to identify itself with invalid information. <u>View</u>	
Certificate belongs to a different site, which could indicate an identity theft. Unknown Identity	
Certificate is not trusted, because it hasn't been verified by a recognized authority.	
Permanently store this exception	
Confirm Security Exception Cancel	

5. In the login window, please input the username/password with 111/111.

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		Login
Password	•••	
Username	111	

6. If login is successful, you will see a window like the one shown below. Click the link of **SSL Tunnel**.

	Home SSL Tunnel	[logout
NFO	Main Page:	
(172.17.1.92) Welcome to the DrayTek SSL VPNI	You have successfully logged in! You are granted the following privileges: • <u>SSL Tunnel</u>	

7. FireFox3.6 only supports Java, so press the **Connect** button directly.

FOWEIEG SOL VEN	Home SSL Tunnel [logot
INFO	Use SSL Tunnel:
SSL Tunnel Click the button to establish an SSL Tunnel to the remote network!	 Warning: 1. Vigor SSL Tunnel requires your browser to support JavaApplet. 2. If you are using Sun JRE 6.0 or newer versions. Please go to the Java Control Panel and disable TLS 1.0 in Advanced>>Security option.
	3. If you close the browser then the Vigor SSL Tunnel will be disconnected Change the default route to be the remote gateway
	Connect

8. Wait for a few minutes, DraySSL Tunnel Client tool will pop up and dial the connection automatically.

Home SSL Tunnel
Use SSL Tunnel:
 Warning: 1. Vigor SSL Tunnel requires your browser to support JavaApplet. 2. If you are using Sun JRE 6.0 or newer versions. Please go to the Java Control Panel and disable TLS 1.0 in Advanced>>Security option. 3. If you close the browser then the Vigor SSL Tunnel will be disconnected. Change the default route to be the remote gateway SSL Tunnel activated!

INFO	Lic	Connection		
SSL Tunnel Click the button to establish an SSL Tunnel to the remote network!	w	Profile: DraySSLTunnel Dr Duration: 00 : 00 : 02	ay Tek	upport JavaApplet.
		ActivitySent	Received	ons. Please go to the Java ed>>Security option.
		Bytes: 1,801	288	Tunnel will be disconnected.
		Packets: 24	13	note gateway
		Detail Client IP: 192.168.1.10 Server IP: 192.168.1.1 Using remote network as default gateway.		
		Remove Virtual Driver on disconnecting.	Disconnect	
		Status: Connected		
				1

9. You can use the ping command to check the connection.

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