



Open Mobile SSL VPN Integration Gateway File

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In Open Mobile for Windows, you can use a VPN gateway INI file to specify your own set of VPN gateways for any integrated SSL VPN. This includes, but is not limited to, the Juniper and CiscoAnyConnect SSL VPNs.

Implementing a Gateway File

To implement a gateway file, upload it to the Open Mobile Portal (on the **VPN Integration** page). The file can then be included in an Open Mobile profile.

Sample Files

Two sample INI files are shown here, for illustration of the proper configuration settings contained in valid files.

Juniper SSL Sample File

The contents of a sample file configured for use with the Juniper SSL VPN is shown here. (This file is available for download from the iPass Open Mobile Portal.)

```
;for VPN

[General]
Gateway1=San Francisco
Gateway2=Sydney
Gateway3=London
SSLVPNDeviceName = "Juniper Network Connect Virtual Adapter"

[San Francisco]
WebVPNUrl = http://webvpn.mycorp.com/
WebPageLoginControl1 = 11,username,<UserName>
WebPageLoginControl2 = 11,password,<UserPassword>
WebPageLoginControl3 = 1,btnSubmit,NULL
WebPageLogoutControl1 = 3,https://webvpn.mycorp.com/dana-na/auth/logout.cgi
SSLVPNDeviceName = "Juniper Network Connect Virtual Adapter"
```



```

WebPageErrorControl1 = 1,overridelink,NULL
WebPageErrorControl2 = 1,btnContinue,NULL

[Sydney]
WebVPNUrl = http://webvpn-sydney.mycorp.com/
WebPageLoginControl1 = 11,username,<UserName>
WebPageLoginControl2 = 11,password,<UserPassword>
WebPageLoginControl3 = 1,btnSubmit,NULL
WebPageLogoutControl1 = 3,https://webvpn-sydney.mycorp.com/dana-
na/auth/logout.cgi
SSLVPNDeviceName = "Juniper Network Connect Virtual Adapter"
WebPageErrorControl1 = 1,overridelink,NULL
WebPageErrorControl2 = 1,btnContinue,NULL

[London]
WebVPNUrl = http://webvpn-london.mycorp.com/
WebPageLoginControl1 = 11,username,<UserName>
WebPageLoginControl2 = 11,password,<UserPassword>
WebPageLoginControl3 = 1,btnSubmit,NULL
WebPageLogoutControl1 = 3,https://webvpn-london.mycorp.com/dana-
na/auth/logout.cgi
WebPageErrorControl1 = 1,overridelink,NULL
WebPageErrorControl2 = 1,btnContinue,NULL

```

Cisco AnyConnect SSL Sample File

The contents of a sample file configured for use with the Cisco AnyConnect SSL VPN is shown here.

```

;upload ini file
    [General]
        Gateway1=Cisco-Lab
        SSLVPNDeviceName = "Cisco AnyConnect VPN Virtual
Miniport Adapter for Windows"

        [Cisco-Lab]
        WebVPNUrl = https://ciscoasa-lab.ipass.com/
        WebPageLoginControl1 = 11,username,<UserName>
        WebPageLoginControl2 = 11,password,<UserPassword>
        WebPageLoginControl3 = 1,Login,NULL
        WebPageLogoutControl1 = 3,https://ciscoasa-
lab.ipass.com/+webVpn+/webvpn-logout.html,NULL
        WebPageErrorControl1 = 1,overridelink,NULL

```

INI File Structure

An INI gateway file must have the structure shown here.

There is no restriction on filename for the gateway file, but it must have the .ini extension.

Customers with iPass' earlier connection client, iPassConnect, can use their existing INI files for Open Mobile. The file structure is similar. However, some additional settings described below, such as WebErrorControlX, may be required.

Section headers are denoted by square brackets. Within each section, additional parameters are specified.

Parameters	Description	Examples
;for VPN	All comments are prefixed with a semicolon (;). Also note that all entries begin on a new row.	<code>;for Juniper</code> <code>;macro used here</code>
[General]	Section name. (All section names are given within square brackets [].) The General section lists the available gateways.	<code>[General]</code> <code>[San Francisco]</code>
[GatewayX]	The key name of each gateway must be unique. If multiple gateway/profiles are configured, and Gateway Selection is enabled, the VPN Gateway Selection window displays when the user logs in so the appropriate profile can be selected. Key name must end with a unique number. That is, X must be replaced with a number, starting from 1, and be consecutively numbered.	<code>Gateway1=San Francisco</code>
WebVPNUrl	Specifies the gateway URL to be invoked. The section name must be the associated Gateway name.	<code>https://webvpn.mycorp.com/ %userprofile%\favorites\webvpn.url</code>
WebPageLogoutControlX	Characteristics of the Logout button or hyperlink. Control type must be 3 for this control.	<code>3,https://webvpn.mycorp.com/dana- na/auth/logout.cg</code>

Parameters	Description	Examples
WebPageLoginControlX	Specifies the characteristics of the Login control, as well as its value. Key name must end with a number, starting from 1, and be consecutively numbered.	11,username,<UserName>. (See below for more details about configuring login controls .)
SSLVPNDeviceName	Specifies the name of the virtual adapter created by the SSL VPN, in double quotes. This is used by the applet to monitor the VPN connection. The local value for this parameter can be copied from the Description field in the "ipconfig /all" at a command prompt.	"Juniper Network Connect Virtual Adapter"
WebPageErrorControlX	Enables clicking of the Continue this Session button, or start a new session if there was a session left open last time.	WebPageErrorControl1 = 1,overridelink,NULL WebPageErrorControl2 = 1,btnContinue,NULL

About Login and Logout Controls

WebPageLoginControlX and WebPageLogoutControlX are used to specify the characteristics of web page controls used for login and logout functionalities. The X in the key name represents the sequence number that determines the order of execution. The values of these keys include, in order and comma separated, the Control Type, Control ID and the Control Value.

For instance, in the setting

```
WebPageLoginControl1=11,username,<UserName>
```

11 represents the Control Type, username the Control ID and <UserName> the Control Value.

Control Types

Control types are divided into two groups: **Submit** controls and **Input** controls. Each value represents a different type of control.

Submit Controls

Value	Type
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1	Button.
2	HREF or hyperlink. Control value associated with this control must be the text shown in the hyperlink.
3	URL.
4	Script function.
5-10	Reserved for future use.

Input Controls

Value	Type
11	Text/edit box control.
12	Used to represent a combo box.

Control ID

Control ID represents the unique ID of the control, which can be identified from the HTML source of the web page. If control is an HREF tag instead of an ID, the text shown in the web page must be entered.

Control Value

Control value represents the value that is to be assigned to the control by the applet. (In order to pass the user credentials from Open Mobile to the Juniper SSL VPN, leave this value as shown, <Username> or <UserPassword>.) This will enable the applet to acquire the value directly from the Open Mobile client.

This parameter is ignored in case of submit controls. As a result this field can be left blank or represented by NULL.

The click event of a Submit control is fired after setting the values of all input controls. The order of execution is based on the sequence number. In the event that any control has a sequence number greater than that of the submit control, the applet fires the click event and waits for the page to load completely before performing any other action.

Examples of Login/Logout Controls

A few example login control key values with their explanations are given below:

Example	Description
<code>WebPageLoginControl1=11,username,TestLab</code>	In this example, the applet assigns the value "TestLab" to the control with ID username, assigns the value "changeme" to the control with ID password, and invokes the click event of the button control with ID login. If values for these controls are defined in the INI file,
<code>WebPageLoginControl2=11,password,changeme</code>	
<code>WebPageLoginControl3=1,login,NULL</code>	

```
WebPageLoginControl1=11,username,<UserName>
WebPageLoginControl2=11,password,<UserPassword>
WebPageLoginControl3=1,btnlogin,NULL
WebPageLoginControl4=1,btnConfirm,NULL
```

In this example:

1. Fill the first edit box with the value of the macro <UserName>
2. Fill the second edit box with the value of the macro <UserPassword>
3. Fire the click event of the button with ID btnlogin
4. Wait for the page to load.
5. Fire the click event of the button with ID btnConfirm.

If the values for username and password are defined in the INI file as macros, then the input fields on the VPN login page would be populated with the values associated with a specific account, and would be different for each user.

Configuring the INI File

Before configuring your own file, determine the name of the local VPN adapter by doing ipconfig/all.

To configure the VPN gateway file,

1. Open the file in your text editor of choice.
2. **Optional Comment:** Add an (optional) comment entry to identify the function of this INI file. (For example ;for Juniper SSL). Comments can be used throughout the document to enhance comprehension. Prefix each comment entry with a semi-colon (;).
3. **Gateway List:** Specify the list of gateways as follows:
 - Type [General] on a new row. This is the section where you list the available gateways.
 - Type Gateway1=<Gateway Name1>, where <Gateway Name 1> is the name of the first gateway.
 - Repeat for each additional gateway (Gateway Name 2, Gateway Name 3, and so on). Each gateway must have a unique name.
4. **Gateway Details:** Insert a blank row and then start a section with [<Gateway Name 1>], using the actual name of the first gateway. Enter a new line for each of the following:
 - i. WebVPNUrl=<URL>. <URL> represents the URL of the VPN server gateway. For example, WebVPNUrl=https://webvpn.mycorp.com/
 - ii. WebPageLoginControl1=11,ControlID,<Username> which is used to describe the login control Username. 11 represents a text box, and <Username> the Open Mobile macro representing the value passed for the username.
 - iii. WebPageLoginControl2=11,password,<UserPassword> for the password.
 - iv. WebPageLoginControl3=1,Login,NULL. This fires the click event of the button with ID Login.
 - v. WebPageLogoutControl1=3,<url>,NULL. This defines the logout control, where <URL> represents the URL of the logout page. For Example, WebPageLogoutControl1=3,

`https://webvpn.mycorp.com/dana-na/auth/logout.cgi, NULL.`

- vi. `SSLVPNDeviceName="<Virtual Adapter>"` where `<Virtual Adapter>` represents the name of the virtual adapter used to connect to the VPN, in quotes. For example, `SSLVPNDeviceName="Juniper Network Connect Virtual Adapter"`.
5. Repeat Step 4 for each gateway defined earlier in the `[General]` section.
6. Save the text file with the extension `.ini`.

Additional Information

For more information on VPN integration and creating Open Mobile profiles, see the *Open Mobile Portal Administrator's Guide*, available on the Open Mobile Portal.

