

Dell PowerConnect J-Series J-SRX100S/SU Services Gateway

Getting Started Guide

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This Getting Started Guide provides instructions for basic installation and configuration of the Dell PowerConnect J-Series J-SRX100S/SU Services Gateway.

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1 Getting Started with the Dell PowerConnect J-Series J-SRX100S/SU Services Gateway

The Dell PowerConnect J-Series J-SRX100S/SU Services Gateway offers features that provide complete functionality and flexibility for delivering secure Internet and intranet access. The services gateway offers stable, reliable, and efficient IP routing in addition to switching support and LAN connectivity. The device provides firewall, anti-virus, anti-spam, anti-spyware, Web filtering, IP Security (IPsec), and virtual private network (VPN) services for small-sized and medium-sized companies. The services gateway can be connected directly to traditional private networks such as leased lines, Frame Relay, or MPLS or to the public Internet. The services gateway runs the Junos operating system (Junos OS).

This chapter provides the Dell PowerConnect J-Series J-SRX100S/SU Services Gateway front and back panel views and the package content information.

Section 1 Contents

1.1 Dell PowerConnect J-Series J-SRX100S/SU Services Gateway Front Panel
1.2 Dell PowerConnect J-Series J-SRX100S/SU Services Gateway Back Panel
1.3 Checking the Dell PowerConnect J-Series J-SRX100S/SU Services Gateway Package Contents

1.1 Dell PowerConnect J-Series J-SRX100S/SU Services Gateway Front Panel

1.2 Dell PowerConnect J-Series J-SRX100S/SU Services Gateway Back Panel



1.3 Checking the Dell PowerConnect J-Series J-SRX100S/SU Services Gateway Package Contents

Before setting up your Dell PowerConnect J-Series J-SRX100S/SU Services Gateway, verify that your package contains the following parts:

- Dell PowerConnect J-Series J-SRX100S/SU Services Gateway
- DB9 > RJ-45 cable
- Quick Start Guide
- Getting Started Guide
- Safety and Environmental Regulation Information (SERI)
- End-User License Agreement (EULA)
- Registration and Software Updates information
- Warranty and support Information (WSI)
- Open Source Code Notice

1.3.1 Any Items Missing?

If any items are missing from your package, contact Dell customer support at **www.support.dell.com**.



NOTE: If you have purchased a UTM subscription, the license authorization codes certificate will be shipped separately in an envelope. You will need this certificate to set up security services for your gateway.



NOTE: The power supply adapter and the power cord are shipped in a separate box.

2 Setting Up Your Network

This chapter provides preconfiguration and configuration instructions for connecting your Dell PowerConnect J-Series J-SRX100S/SU Services Gateway. Review this chapter to set up your services gateway.

Section 2 Contents

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2.1 Recording Configuration Information

This section provides the following information:

- 2.1.1 Registration Information
- 2.1.2 Login Information
- 2.1.3 Internet Service Provider Information

2.1.1 Registration Information



NOTE: If you have not purchased the UTM or IDP licenses, do not proceed with the instructions provided in this section.

Use the following information when you are enabling Unified Threat Management (UTM)/Intrusion Detection and Prevention (IDP) licenses on the device.

Serial Number Record the serial number found on the bottom of the chassis of your Dell PowerConnect J-Series J-SRX100S/SU Services Gateway.

Authorization Code	Record the authorization code provided by Dell.
	NOTE : Use the authorization code only if you have purchased subscription licenses for UTM and IDP.

2.1.2 Login Information

Use the following default username and password information for the first time login. Record this information for your future reference.

Username	Select an administrator account name. Default is root .
Password	Password is not required. Leave this box blank.

2.1.3 Internet Service Provider Information

Use the following information to connect to the Internet when your Internet Service Provider (ISP) provides the static settings such as IP address, Domain Name Server (DNS), and so on.



NOTE: Do not use this information if your ISP uses Dynamic Host Configuration Protocol (DHCP).

IF YOU CONNECT USING PLEASE RECORD

D	н	с	Р
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No information is usually required, although some providers may require a hostname. Hostname:

IF YOU CONNECT USING PLEASE RECORD

IP Address:
Subnet Mask:
Default Gateway:
Primary DNS:
DNS 2 (optional):
DNS 3 (optional):

2.2 Connecting the Device

Static IP

This section covers the following tasks:

- 2.2.1 Connecting the Power Cable to the Device
- 2.2.2 Connecting the Management Device
- 2.2.3 Connecting to Your Internet Service Provider

2.2.1 Connecting the Power Cable to the Device

To connect the power cable to the device:

- 1. Plug the DC connector end of the power cable in to the power connector on the back of the device.
- Plug the AC adapter end of the power cable in to an AC power outlet. We recommend using a surge protector. Note the following indications (see "1.1 Dell PowerConnect J-Series J-SRX100S/SU Services Gateway Front Panel"):
 - POWER LED (green): The device is receiving power.
 - STATUS LED (green): The device is operating normally.
 - ALARM LED (amber): The device is operating normally, but a rescue configuration has not yet been set. This is not a panic condition, however.

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NOTE: Initially, if the rescue configuration has not been set, a steadily amber ALARM LED indicates a minor alarm condition, and a steadily red ALARM LED indicates that a major alarm condition on the services gateway.



NOTE: You must allow the device between 5 and 7 minutes to boot fully after you have powered it on. Wait until the STATUS LED is steadily green before proceeding to **"2.2.2 Connecting the Management Device."**

2.2.2 Connecting the Management Device

Connect the management device to the services gateway using an RJ-45 cable (Ethernet cable) from any one of the fe-0/0/1through fe-0/0/7 ports on the front panel to the Ethernet port on the management device.

Figure 1: Connecting the Management Device to the Services Gateway



After you connect the management device to the services gateway, the DHCP server process on the services gateway automatically assigns an IP address to the management device. Ensure that the management device acquires an IP address in the range of 192.168.1.2 through 192.168.1.254 from the services gateway.

NOTE: For the services gateway to assign an IP address to the management device, the management device must be set up to connect using DHCP.



If an IP address is not assigned to the management device, you can manually configure an IP address in the range of 192.168.1.2/24 through 192.168.1.99/24. Ensure you do not use 192.168.1.1, as this IP address is configured on the services gateway.

2.2.3 Connecting to Your Internet Service Provider

Connect the fe-0/0/0 port on the Dell PowerConnect J-Series J-SRX100S/SU Services Gateway to your ISP or Internet (see **"Figure 1: Connecting the Management Device to the Services Gateway"**). The DHCP server that resides in your ISP network provides the necessary settings (such as default route, DNS, and so on) to the services gateway to connect to the Internet.



NOTE: If you are using a static IP address to connect to the provider's network, do not perform **"2.3 Verifying Internet Connectivity."** To access the Internet from your management device (workstation or laptop), you need to first configure the static IP address on the fe-0/0/0 interface and configure a default route.

2.3 Verifying Internet Connectivity

With a default configuration of the Dell PowerConnect J-Series J-SRX100S/SU Services Gateway, you can access the Internet when you connect the management device into any one of the Ethernet ports (fe-0/0/1 through fe-0/0/7) and your ISP is connected to the fe-0/0/0 port. For more information on default configuration, see **"2.4 Understanding the Default Configuration Settings."**

Now you can browse the Internet from your management device. For example, type **www.dell.com** in your browser.



NOTE: If you are using DHCP to verify the network settings from your service provider, verify your Internet connectivity. If you are using a static IP address to connect to the provider's network, do not verify the internet connectivity.

2.4 Understanding the Default Configuration Settings

The device has the following default configuration settings when you power it on for the first time (for more information on trust and untrust zones, see **"3.1 Zones and Interfaces Overview"**):

Factory Default Settings

PORT LABEL	INTERFACE	SECURITY ZONE	DHCP STATE	IP ADDRESS
0/0	fe-0/0/0	untrust	client	Unassigned
0/1 to 0/7	fe-0/0/1 to fe-0/0/7	trust	server	192.168.1.1/24

SOURCE ZONE	DESTINATION ZONE	POLICY ACTION
For Security Policies		
trust	untrust	permit
trust	trust	permit
untrust	trust	deny
For NAT Rule		
trust	untrust	source NAT to untrust zone interface

2.5 Verifying the System Requirements

Before you begin the setup process, verify that you have one of the following supported browsers:

ICON	ACCEPTED BROWSER	BROWSER VERSION NUMBER
Ø	Internet Explorer	7.0 and later
٨	Mozilla Firefox	3.0 and later

2.6 Accessing the J-Web Interface

To access the J-Web interface:

- 1. Launch a Web browser on the management device or PC.
- 2. Enter http://192.168.1.1 in the URL address box. The J-Web login page appears.
- **3.** Specify the default username as **root**. Do not enter any value in the Password box.
- **4.** Click **Log In**. The first time you log in, the J-Web Initial Setup page appears.



NOTE: The J-Web interface will take between 1 and 2 minutes for displaying the initial setup page, only Host Name and Root Password is mandatory. Other fields are optional.

Set Up			
Identification			line
Host Name		2	Time Zone
Contan Name		1	NTP Servers
Root Password		2	
· Verify Root Password			Fed Delete
			Current System Time III(00(01010-046))
			Bet time now sig MTP
			Set time now manually >
ietwork			Management Access
DNS Name Servers 208 67 222 222 20 208 57 220 220			The following access methods are considered insercare as any information sent over them will be sent without encryption and could possibly be intercepted during tensoricoles.
		F	Allow Teinet Access
	Add	Deleta	Allow XMDSorpt over Clear-Text Access
Doman Search			The following access method is corrected secure as any information sent over it will be encrypted before transmission.
			Alow 59H Access
		1	In order to enable HTTPS or RANSScript over SSL, you will need to visit the SSL configuration page to configure certificates and associations.
	Add	Delete	
Default Gateway			
Loopback Address		Þ	
fe-0/0,/0.0 Address			

- **5.** Enter the hostname and root password. You can also configure DNS server, time zone, and so on, on this page.
- 6. Click Apply.
- 7. Click **Commit Options** on the top right corner and click **Commit**.

- If you have used a static IP address to configure an IP address on your services gateway, ensure that you make the following J-Web modifications:
 - a. Clear the Enable DHCP on fe-0/0/0.0 check box.
 - Enter the manual IP address provided by your ISP in the fe-0/0/0.0 address box. The IP address must be entered in the a.b.c.d/xx format, where xx is the subnet mask.
 - c. Enter the IP address of the gateway in the Default Gateway box. Your ISP provides the IP address for the gateway.
 - d. Enter server names in the DNS name servers box. Your ISP provides the server names.
 - e. Click Apply. The J-Web login page appears again.
 - f. Enter the username and password and click **Log In**. After successful login, the Dashboard page appears.

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shboard					
			Oluniper Oli L		
System Identification			8.0.8	Resource Utilization	2 Ø X
Serial Number AU Host Name: ale: Software Version: 3UP Bios Version: 1.7 System Up Time: 01: System Time: 201	32094P0016 cander 405 Software Rel 11:13 since 2010 0-07-30 12:15:3	nam (10.292.6) 07-30 11.09:20 807 1807		CPU (Central) 43% Nenning (Central) 9% CRU (Ovin) 9% Nennorg (Ovin) 43% Streeps 25.53%	
System Alarms			8 Ø 8	0% 20% 40% 60% 00% 100%	
Received At 2010-07-29 23:10:44 ED1	Seve. C	escription rescue configuration is not set		Security Resources	0 Ø X
				Maximum Configured Activated Session - 21 TW//TVL/below 394 5 5 Rises/1998 100 0 0	

 Access the Internet from your management device. For example, type www.dell.com in your browser. This connectivity ensures that you can pass traffic through the services gateway. For more information on verification, see "2.8 Verifying the Configuration."

2.7 Configuring the Basic Settings

This section covers the following configuration tasks:

2.7.1 Setting the System Hostname, Domain Name Server, and Root Authentication

2.7.2 Setting the Date and Time

2.7.3 Creating a User Account

2.7.4 Assigning a Static IP Address to the WAN-Facing Interface

2.7.5 Creating a Default Route to the WAN Interface

2.7.6 Applying the Basic Configuration Settings

2.7.1 Setting the System Hostname, Domain Name Server, and Root Authentication

If you have not configured the hostname and DNS settings in the J-Web Initial Setup page, to set or change the hostname, DNS settings, or the root authentication password:

- Click the Configure tab at the top of the page and navigate to System Properties > System Identity.
- 2. Click Edit and enter the hostname and root password.
- Click Add and enter the DNS server IP address. For example, 208.67.222.222.

FROM TO LONG TO STATE	2	
P address:	208 67	222 222
	7047-08304	
	OK Ca	ncel

- 4. Click OK and then click OK again.
- 5. Click **Commit** to save the basic configuration.

2.7.2 Setting the Date and Time

You can synchronize the Dell PowerConnect J-Series J-SRX100S/SU Services Gateway clock using three options: Manual, management device clock, or NTP Server.

To set the date and time:

- Click the Configure tab at the top of the page and navigate to System Properties > Date Time.
- **2.** Click **Edit** at the top right corner of the page, and then select your required time zone from the list.

Current date/time: 2010-07-27 21:51:01 PDT Set time: Synchronize with PC time NTP servers MTP Servers 64 25 96 23 Add Edk Delete	2010-07-27 21:51:01 PDT
Set time: Synchronize with PC time INTP servers Manual NTP Servers 64 25 96 23 Add Edk Delete	
NTP Servers 64 25 96 23 Edt Delete	NTP servers O Manua
64 25 96 23 Add Edk Delete	
E.dk.,	Add
Delete	Edit
	Delete

- 3. Select the set time options in Set time.
- 4. Click OK.

2.7.3 Creating a User Account

To configure a user (other than an administrative account) and to set different permissions while accessing the Dell PowerConnect J-Series J-SRX100S/SU Services Gateway:

- Click the Configure tab at the top of the page and choose System Properties > User Management.
- Click Edit at the top right corner of the page, and then click Add.
- **3.** Enter the username and password.
- 4. Select the required permission from the list in Login class.
- 5. Click OK.

Jser name:	lab
Jser Id:	
-ull name:	
Password:	•••••
Confirm password:	
Login class:	read-only

2.7.4 Assigning a Static IP Address to the WAN-Facing Interface

To assign a static IP address to the WAN-facing (internet) interface:

- 1. Click the **Configure** tab at the top of the page and navigate to **Interfaces**.
- 2. Expand fe-0/0/0 and select the logical interface.
- 3. Click Edit and select the zone as untrust from the list.
- 4. Click the IPv4 Address tab.
- Select Enable address configuration and then select the IPv4 Address check box.



NOTE: The **IPv4 Address** check box must be selected before the **Add** button is automatically enabled.

and a					
Unit:					
Description:	Logica	Interface I	Descriptio	in	
lone:				~	
/lan Id:					
Viotocol (familu)					
IPv4 Address Address/DHCP c C Enable DHCP	IPv6 Addres	s Et	hernet Sw	itching	
IPv4 Address Address/DHCP c Enable DHCP Enable address IPv4 Address IPv4 Address	IPv6 Addres	s Et	ARP	itching	
IPv4 Address Address/DHCP c Enable DHCP Enable address IPv4 Address 208.67.222.2	IPv6 Address	s Et	ARP Edit	itching	Add

- **6.** Click **Add** and enter the IP address and subnet mask provided by your ISP.
- 7. Click OK.

2.7.5 Creating a Default Route to the WAN Interface



NOTE: Creating a default route is required only if you have used a static IP address.

To create a default route to the WAN interface:

- Click the Configure tab at the top of the page and navigate to Routing > Static Routing.
- 2. Click Add.
- Enter the IP address as 0.0.0.0 and the Subnet mask as 0.0.0.0.



NOTE: While adding the next hop, the field is separated by tabs instead of dots.

IP address:	0	0	0	0	
Subnet mask:	0	0	0	0	0 🗘
laudh an					
1.1.1.2				Add	
				rissin	_
				Delete	э

- **4.** Click **Add** in Nexthop and enter the default gateway IP address provided by your ISP.
- 5. Click OK.

2.7.6 Applying the Basic Configuration Settings

When you edit a configuration, you work in a copy of the current configuration to create a candidate configuration. The changes you make to the candidate configuration are visible through the user interface immediately, but do not take effect on the device until you commit the changes. When you commit the configuration, the candidate file is checked for proper syntax, activated, and marked as the current, operational software configuration file. To save the configuration, select **Commit Options** on the top right corner of the page and click **Commit**.

NOTE: You can commit your configuration settings at the end of each task or you can commit all the configuration settings at one time.

2.8 Verifying the Configuration

To verify the basic configuration, access any external website (for example, **www.dell.com**), to ensure that you are connected to the Internet.

If you are unable to connect to Internet from your management PC, verify the following:

- 1. In the J-Web interface, click the **Troubleshoot** tab and then click **Ping Host**.
- 2. Enter www.dell.com in Remote Host and click Start. If your ping is successful go to Step 3, otherwise go to Step 4.
- **3.** Ensure the Management PC has acquired IP address (in the range 192.168.1.2 through 192.168.1.99) and DNS settings from the services gateway. If the PC acquired the correct IP address/DNS and you are still not able to access internet, go to Step 5.

- **4.** To ensure that the services gateway has the default route (0.0.0.0) when you are using DHCP:
 - a. Click the **Monitor** tab and navigate to **Routing** > **Route Information**.

Static Routing		
Route Filter		
Destination Address:	Protocol:	
Next hop Address:	Receive Protocol:	
Best Route	Inactive Routes	Saweb Barat
Exact Route	Hidden Routes	Tearri Lease

Route Table:	inst.0 💌 Route Information: 28 destinations, 28 routes (27 ective, 0 hold down, 1 hidden)								
Static Route Address	s Next Hop Type	Next Hop	Age	Protocol	Preference	State	AS Path		
10.4.0.0	Router	te-0/0/0.0	1:36.22	Static	5	Active NoReachrt Int Ext.	1	<u>^</u>	
10.5.0.0	Router	fe-0/0/0.0	1:36.22	Static	5	Active NoReadwrt Int Ext	1		
10.6.128.0	Router	fe-0/0/0.0	1:36:22	Static	5	Active NoReadwrt Int Ext	1		
10.9.0.0	Router	fe-0/0/0.0	1:38:22	Static	5	Active NoReadwrt Int Ext	1		
10.10.0.0	Router	te-0/0/0.0	1:38:22	Static	5	Active NoReadwt Int Ext	1		
10.13.4.0	Router	fe-0/0/0.0	1:38.22	Static	5	Active NoReadwt Int Ext	1		
10.13.10.0	Router	fe-0/0/0.0	1:38.22	Static	5	Active NoReadwt Int Ext	1		
10.84.0.0	Router	fe-0/0/0.0	1:38.22	Static	5	Active NoReadw1 Int Ext	1		
10.85.12.0	Router	fe-0/0/0.0	1:36.22	Static	5	Active NoReadwrt Int Ext	1		

- b. Select **inet.0** from the Route Table list and then click **Generate Report**.
- c. Save the report on your local disk.
- 5. Contact Dell customer support at www.support.dell.com.

3 Performing Advanced Network Configuration

This chapter provides the security zone and policies configuration instructions for connecting your Dell PowerConnect J-Series J-SRX100S/SU Services Gateway.

Section 3 Contents

3.1 Zones and Interfaces Overview
3.2 Creating a New Security Zone and Adding an Interface to the New Zone
3.3 Configuring Security Policies
3.4 Enabling Remote Access to the Dell PowerConnect J-Series J-SRX100S/SU Services Gateway
3.5 Enabling System Services
3.6 Allowing Host Inbound Traffic
3.7 Applying the Security Policy Configuration

3.1 Zones and Interfaces Overview

Zones split a network infrastructure into logical areas, each with its own set of usage rules, security services, and policies. Most networks include multiple definitions of zones, including those for trusted, untrusted, public, encrypted, and wireless traffic. The Dell PowerConnect J-Series J-SRX100S/SU Services Gateway comes preconfigured with basic zones, such as:

- Untrust zone–Zone through which you connect to the Internet.
- Trust zone-Zone that contains all the trusted local network resources.

The security features and settings that zones carry are enforced by binding one or more physical interfaces (fe-0/0/1 through fe-0/0/7) on services gateway to a zone.

3.2 Creating a New Security Zone and Adding an Interface to the New Zone

This example shows how to create a new zone, DMZ, and assign interface fe-0/0/2 to it. This example also shows how to make fe-0/0/2 an L3 interface and assign an IP address to it.

To create and assign an interface port to the DMZ zone:

- Click the Configure tab at the top of the page, navigate to Security > Zones/Screens, and then click Add.
- Enter the Zone name as DMZ and select the zone type as security.

id Zone			
Main Host inbound tra	ffic - Zone Host inbo	ind traffic - Interface	
* Zone name:	DMZ		
* Zone type:	 security 		
Send RST for non ma Binding screen:	atching session:	×	
Interfaces in this zone:	Available fe-0/0/1.0 fe-0/0/3.0 fe-0/0/4.0 fe-0/0/5.0 fe-0/0/6.0 fe-0/0/7.0	Selected is-0/0/2.0 €	

 In the Interfaces in this zone field, move fe-0/0/2 from the Available list to the Selected list.

4. Click the Host inbound traffic - Zone tab.

NOTE: This step is optional. However, you must select the required services and protocols to enable any kind of service or protocol (DHCP, OSPF, and so on).

 Select the required services and protocols and move them to Selected and click OK.

dit Zone			
Main Host inb	ound traffic - Zone Host inbo	ound traffic - Interface	
Protocols:	Available pgm rip ripng router-discovery rsvip sap vrrp	Selected all C	
Services:	Available smp smp-trap sh teinet tiftp traceroute xmm-clear-text xmm-ssl	Selected a C	
		OK Cancel	

- **6.** To modify the fe-0/0/2 interface to be an L3 interface (by default, it is Layer 2):
 - a. Click the **Configure** tab at the top of the page and navigate to **Interfaces**.
 - b. Expand **fe-0/0/2**, select the logical interface (fe-0/0/2.0), and then click **Edit**.
 - c. Clear the **Ethernet switching** check box and select the **IPv4 Address** check box.
 - d. Select the IPv4 Address check box.
 - e. Click **Add** and enter the IP address.
 - f. Click **OK**.

3.3 Configuring Security Policies

Security policies provide a set of rules for transit traffic to use to identify which traffic can pass through the firewall and what actions to take on the traffic as it passes through the firewall. To assign an IP address:

For example, to define a security policy between the untrust and the DMZ zones that will allow HTTP/SSH traffic between them:

 Click the Configure tab, choose Security > Policy > FW Policies, and then click Add.

		permi	cy Action:		TTP	SSH-and-H		cy Name:	POI
~	z 💌	DMZ	Zone:	•	~	intrust		m Zone:	Fro
		Idress	estination Ad				ress	iource Addr	• 9
ed	Matched arw	•	dress-Book —		ched	Mat any €	0_24 0_24 0_24	ldress-Book dr_1_2_3_(dr_2_3_4_(dr_3_4_5_(Ad ad ad
	address	stination a]Add new de			uddress —	source	Add new	-L
								Applications	• •
			hed	A M	•	stions/Sets	Appli	pplication	* A
			sericips with	- (+)		ten	junos		
				•	sion	netbios-ses: celnet smtp	junos junos junos		
								Search:	
	address	stination a	Add new der hed s-https s-ssh		s	ations/Sets ftp tsp retbios-sess relinet imtp	Appli Junos Junos Junos Junos Junos	Add new supplications	-L

- 2. In the Policy tab, enter the policy name and select the Policy Action as **permit** from the list.
- In the Policy tab, select untrust from the list for From Zone and DMZ from the list for To Zone.
- 4. In the Source Address and Destination Address areas, move any to Matched.



NOTE: For any specific source or destination address, select **Add new destination address**.

5. In Applications, move **junos-https** and **junos-ssh** to **Matched** and then click **OK**.

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NOTE: To allow HTTP/SSH traffic from the DMZ to the untrust zone, create a new policy and configure a security policy from the DMZ to the untrust zone. To perform this, follow the steps mentioned in **"3.3 Configuring Security Policies;"** however, you need select **DMZ** from the list for **From Zone** and **untrust** from the list for **To Zone**.

3.4 Enabling Remote Access to the Dell PowerConnect J-Series J-SRX100S/SU Services Gateway

To manage the Dell PowerConnect J-Series J-SRX100S/SU Services Gateway from a remote location, for example through fe-0/0/0 that is connected to your Internet Service Provider, you must:

- enable system services like HTTP/Telnet/SSH.
- allow host-inbound-traffic at the zone or specific interface level (in this case, zone is **untrust** and interface is **fe-0/0/0**).

3.5 Enabling System Services

To enable system services like HTTP, Telnet, and SSH:

- Click the Configure tab at the top of the page, navigate to System Properties > Management Access. The Management Access Configuration page appears.
- 2. Click Edit.
- 3. Click the Services tab.
- **4.** In Services, select the check box for the service that you want to enable.



anagement	Services	Certificates	
Services		JUNOScript	
🗹 Enable	telnet	Enable JUNOScript over clear text	
🗹 Enable :	SSH	Enable JUNOScript over SSL	
		JUNOScript certificate:	~
🕑 Enable	нттр		
🔲 Enable	on all interfa	aces	
Available	interfaces	Selected interfaces	
fe-0/0/0.0)	<u></u>	
100.0		✓ →	
🗹 Enable	HTTPs		
Enable	tificate:	×	
Enable	tificate:	aces	
Enable	tificate: on all interfa	aces Selected interfaces	
Enable HTTPs cer Enable Available fe-0/0/0.0	tificate: on all interfa interfaces -)	aces Selected interfaces	
Enable HTTPs cer Enable Enable Available fe-0/0/0.0	tificate: on all interfa interfaces -)	aces Selected interfaces	
Enable HTTPs cer Enable Available fe-0/0/0.0 lo0.0	HTTPs tificate: on all interfa interfaces)	aces Selected interfaces	
Enable HTTPs cer Enable Enable fe-0/0/0.0 lo0.0	HTTPs tificate: on all interfa interfaces	aces Selected interfaces	

- **5.** In Enable HTTP/HTTPS, to enable HTTP/HTTPs on all available interfaces:
 - a. Click the Enable on all interfaces check box or
 - b. To add HTTP/HTTPS only to certain interfaces move the required interfaces to **selected interfaces**.

NOTE: Before enabling HTTPS access, ensure that the system date and time is set accurate.

6. Click OK.

3.6 Allowing Host Inbound Traffic

To allow host-inbound service for a zone/interface:

- Click the Configure tab at the top of the page, navigate to Security > Zones/Screens.
- **2.** Click the security zone that you want to modify (for example, untrust).
- **3.** In the Main tab, ensure **fe-0/0/0** interface is in the **Selected** column.
- 4. Click the Host inbound traffic Zone tab.

- Select the required services and protocols and move them to Selected.
- **6.** Optionally, to allow host inbound traffic at interface level (instead of allowing to the entire zone):
 - a. Click the Host inbound traffic Interface tab.
 - b. Click on the fe-0/0/0 interface (for this example).
 - c. Follow step 4 and step 5.
- 7. Click OK.

3.7 Applying the Security Policy Configuration

Once the configuration is complete, you can save the changes. To save the configuration, select **Commit Options** on the top right corner of the page and click **Commit**.

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4 Enabling Security Services

This chapter provides the Unified Threat Management (UTM) and Intrusion Detection and Prevention (IDP) policy configuration and installation instructions for accessing your Dell PowerConnect J-Series J-SRX100S/SU Services Gateway.



NOTE: If you have not purchased the UTM or IDP licenses, do not proceed with the instructions provided in this chapter.

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4.1 Activating Licenses on the Device	26
4.2 Installing and Verifying a License	26
4.3 Unified Threat Management	26
4.4 Intrusion Detection and Prevention	35

4.1 Activating Licenses on the Device

Before you can configure any UTM features, the UTM feature license must be installed on the device.

Follow the licensing activation instructions included with your license authorization code.

4.2 Installing and Verifying a License

To automatically add subscription licenses to the Dell PowerConnect J-Series J-SRX100S/SU Services Gateway after registering, ensure that you are connected to the Internet and that DNS is configured.

To install and verify the installed license:

- Click the Maintain tab at the top of the page and navigate to Licenses.
- 2. Click **Download Keys** to download the licenses automatically.
- **3.** In the Feature Summary, check that all the licenses are installed.

Licens	es							
Featur	e Summary							
Featu	ire		License	s Used	Licenses In	stalled	Licenses Needed	License Expires or
Kasp	ersky AV		0		3		0	2011-06-30
Anti	virus with Sopho	s Engine	0		2		0	2011-06-30
Anti-	Spam		0		5		0	2011-06-30
Web	Filtering		0		4		0	2011-06-30
IDP 9	ignature		0		3		0	2011-06-30
AX41	1 WLAN AP		0		2		0	
Mem	ory Upgrade		0		1		0	
(nstall	ed Licenses				Display I/	(0110	Doumload Kaus	1
(Mut	ID Delete	State	Varcian	Crown	(Display K	Enable	Download Keys	J
П	JUN05260100	valid	2	No grou	up information	IDP Sid	nature	
	JUN05260101	valid	2	No grou	up information	Kasper	sky AV	
	JUNO5260102	valid	2	No grou	up information	Anti-Sp	oam	
	JUNO5260103	valid	2	No grou	up information	Anti Vir	us with Sophos Engine	
	JUNO5260104	valid	2	No grou	up information	Anti Vir	us with Sophos Engine	
	JUNO5260105	valid	2	No grou	up information	Anti-Sp	oam	
	JUNO5260106	valid	2	No grou	up information	Web Fi	iltering	
	JUNO5260107	valid	2	No grou	up information	IDP Sig	nature	
	JUN05260108	valid	2	No grou	up information	Anti-Sp	pam	
	JUNO5260109	valid	2	No grou	up information	Kasper	sky AV	
	JUN05260110	valid	2	No grou	up information	Anti-Sp	pam	
	JUNO5260111	valid	2	No grou	up information	Web Fi	iltering	

4.3 Unified Threat Management

This section provides the Dell PowerConnect J-Series J-SRX100S/SU Services Gateway configuration instructions for using a UTM policy to secure the network:

4.3.1 Enabling Anti-Virus

4.3.2 Enabling Web Filtering

- 4.3.3 Enabling Anti-Spam
- 4.3.4 Applying the UTM Configuration Settings
- 4.3.5 Verifying the UTM Configuration Settings

4.3.1 Enabling Anti-Virus

This section provides an example for configuring the full file-based anti-virus scanning feature using the default **junos-av-defaults** anti-virus profile. To enable anti-virus, you must perform the following configuration steps:

- 4.3.1.1 Applying an Anti-Virus Profile to a UTM Policy
- 4.3.1.2 Applying the UTM Policy to a Firewall Policy
- 4.3.1.3 Creating an Anti-Virus Profile

4.3.1.1 Applying an Anti-Virus Profile to a UTM Policy

To apply an anti-virus profile to a UTM policy:



NOTE: You can either create a new UTM policy or use an existing UTM policy (if any exits) to add Anti-Virus to it. If you want to create a new anti-virus profile, see **"4.3.1.3 Creating an Anti-Virus Profile."**

- Click the Configure tab, choose Security > Policy > UTM Policies, and then click Add.
- 2. Click the Main tab and enter the policy name as custom-utm-policy.
- **3.** Click the **Anti-Virus profiles** tab, select **junos-av-defaults** from the list in HTTP Profile box, and then click **OK**.

HTTP profile:	junos-av-defaults	*	
FTP upload profile:		*	
FTP download profile:		~	
IMAP profile:		~	
SMTP profile:		~	
POP3 profile:		*	

4.3.1.2 Applying the UTM Policy to a Firewall Policy

To inspect transit traffic and evaluate it against the anti-virus profile, you must apply the UTM policy to a firewall policy.

To apply the UTM policy to a firewall policy:

- Click the Configure tab and choose Security > Policy > FW Policies.
- 2. Click Edit to edit an existing policy.
- 3. Click the Application Services tab.
- 4. In UTM Policy, select custom-utm-policy from the list.



5. Click OK.

4.3.1.3 Creating an Anti-Virus Profile

This task is optional and can be performed if you want to configure a new anti-virus profile.

To create an anti-virus profile:

- Click the Configure tab and choose Security > UTM > Anti-Virus.
- 2. Click Add for a new anti-virus profile.

Add profi	le		screening	Search X
Main	Fallback settings	Notification options	Notification options cont	
* Profi	ile name:	custom-antivir	us-profil	
* Profi	ile type:	🔘 Kaspersky		
Profile	type	O Sophos		
Tricklin	ng timeout:			
Sca	n options		10	
Inte	lligent prescreening	y: 💿 yes		
URI	check:	O no		
Cont	tent size Limit:	10000		
Scar	n engine timeout:			
Num	ber of retries:			
Deci	ompress layer limit:	2		
-50	an mode			
Sc	an all files:		\odot	
Sc	an files with specifi	ed extension:	0	
Sc	an engine filename	extension:		
		OK Ca	ncel	

- 3. Do the following:
 - a. Enter a Profile name.
 For example, custom-antivirus-profile.
 - b. Select Profile Type as Kaspersky.
 - c. Enter the Trickling timeout.
- 4. In the Scan options, do the following:
 - a. Select the Intelligent prescreening as yes.
 - b. Enter the Content size Limit.
 - c. Enter the Decompress layer limit.
- 5. In the Scan mode, select Scan all files.
- 6. Click OK.

Add prof	ile			See 1
Main	Fallback settings	Notification options	Notification options cont	
* Prot	file name:	custom-antivi	rus-profili	
• Prof	file type:	 Kaspersky 		
Trickli	ng timeout:	600		
Sca	in options			
Inte	elligent prescreenin	g: • yes O no		
Con	itent size Limit:	10000		
Scar	n engine timeout:			
Dec	ompress layer limit:	2		
-5	can mode			
So	an all files:		۲	
So	can files with specif	ied extension:	0	
S	an engine filenama	e extension:		
			incei	

4.3.2 Enabling Web Filtering

This section provides an example for configuring the Web filtering feature using the default **junos-wf-cps-default** Web filtering profile. To enable Web filtering, you must perform the following configuration tasks:

4.3.2.1 Applying a Web Filtering Profile to a UTM Policy

- 4.3.2.2 Applying a UTM Policy to a Firewall Policy
- 4.3.2.3 Creating a Web Filtering Profile

4.3.2.1 Applying a Web Filtering Profile to a UTM Policy

To configure the predefined Web filtering profile to use the configured UTM policy:

- Click the Configure tab and choose Security > Policy > UTM Policies.
- 2. Click Add.
- Click the Main tab and enter the policy name as web-filtering-policy.
- 4. Click the Web filtering profiles tab.
- 5. In HTTP Profile, select junos-wf-cpa-default from the list.



6. Click OK.



4.3.2.2 Applying a UTM Policy to a Firewall Policy

To inspect transit traffic and evaluate it against the Web filtering profile, you must apply the UTM policy to a firewall policy.

To apply a UTM policy to a firewall policy:

- Click the Configure tab and choose Security > Policy > FW Policies.
- 2. Click Edit to edit an existing policy.
- 3. Click the Application Services tab.
- 4. In UTM Policy, select web-filtering-policy from the list.

Pulicy		
licy Logging/	Count Scheduling Permit Action Application Services	
IDP		
Enable IDP:		
Redirect		
Options:	C Redirect-wx	
	Reverse Redirect-wx	
UTM Policy		
UTM Policy:	✓ web-filtering-poli	

- 5. Click OK.
- 6. Click **Commit Options** on the top right corner of the page and click **Commit**.

4.3.2.3 Creating a Web Filtering Profile

This task is optional and can be performed if you want to configure a new Web filtering profile.

To create a Web filtering profile:

- Click the Configure tab and choose Security > UTM > Web Filtering.
- 2. Click Global Options at the top right corner of the page.
- 3. In Filtering type, select Surf Control Integrated.
- **4.** In Surf Control Integrated Options, enter the value for Cache time out and Cache size.
- 5. Click OK.

JRL whitelist:	~	
URL blacklist:	~	
Filtering type		
Surf Control Integrated:	۲	
Websense Redirect:	0	
Local:	0	
Cache size:	20	
Cache timeout:	10	
Server host:	cpa.surfcpa.com	
Server port:	9020	

- 6. Click Add on the top right corner.
- 7. In the Main tab, do the following:
 - a. Enter the Profile name.
 For example, custom-web-filtering-profile.
 - b. Select **Permit** in default action.
 - c. Enter the timeout value.
- 8. Click OK.

4.3.3 Enabling Anti-Spam

This section provides an example for configuring the anti-spam feature using the default **junos-as-defaults** anti-spam profile. To enable UTM anti-spam on the Dell PowerConnect J-SRX100S/SU Services Gateway, you must perform the following tasks:

- 4.3.3.1 Applying an Anti-Spam Profile to a UTM Policy
- 4.3.3.2 Applying a UTM Policy to a Firewall Policy
- 4.3.3.3 Creating an Anti-Spam Profile

4.3.3.1 Applying an Anti-Spam Profile to a UTM Policy

To configure the predefined anti-spam profile to use a UTM policy:

- Click the Configure tab and choose Security > Policy > UTM Policies.
- 2. Click Edit.
- 3. Click the Anti-Spam profiles tab.



- 4. In SMTP profile, select junos-as-defaults from the list.
- 5. Click OK.



NOTE: If the configuration delivery status is fail, click **Details** for more information. If you want to create a new anti-spam profile, see **"4.3.3.3 Creating an Anti-Spam Profile."**

4.3.3.2 Applying a UTM Policy to a Firewall Policy

To inspect transit traffic and evaluate it against the anti-spam profile, you must apply the UTM policy to a firewall policy.

To apply a UTM policy to a firewall policy:

- Click the Configure tab and choose Security > Policy > FW Policies.
- 2. Click Edit to edit an existing policy.
- 3. Click the Application Services tab.

IDP Enable IDP:		
Redirect	O Bardinant un	
Options:	C Reverse Redirect-wx	
UTM Policy UTM Policy:	▼ custom-anti-span	

- 4. In UTM Policy, select the required UTM policy from the list.
- 5. Click OK.

4.3.3.3 Creating an Anti-Spam Profile

This task is optional and can be performed if you want to configure a new anti-spam profile.

To create a new anti-spam profile:

- Click the Configure tab and choose Security > UTM > Anti-Spam.
- 2. Click Add.



3. Enter the profile name.



NOTE: By default, the Default SBL server is **yes** and the Default action is **Block email**.

- 4. Click OK. The download successful message appears.
- 5. Click OK.



NOTE: If the configuration delivery status is Fail, click **Details** for more information.

4.3.4 Applying the UTM Configuration Settings

To save the UTM configuration settings, select **Commit Options** at the top right corner of the page and click **Commit**.

4.3.5 Verifying the UTM Configuration Settings

To verify the UTM configuration settings, perform the following tasks:

4.3.5.1 Verifying an Anti-Virus Configuration

- 4.3.5.2 Verifying a Web Filtering Configuration
- 4.3.5.3 Verifying an Anti-Spam Configuration

4.3.5.1 Verifying an Anti-Virus Configuration

To verify an anti-virus configuration:

- 1. Click the Monitor tab.
- 2. Choose Security > UTM > Anti-Virus.

NOTE: Click the plus sign (+) to view the UTM anti-virus statistics. If you want to clear the data, click **Clear Anti-Virus Statistics**.

UTIMIS							
Anti-V	irus						
UTM A	nti-Virus						
	AV Key Expire Date :	2011-0	6-29 20	:00:00	_		
	Update Server :	http://	update.	uniper	upd	ates.r	et/AV/
	Interval :	60			-		
	Auto Update Status :	next u	pdate in	1 minu	tes		
	Last Result :	downia	ad list fi	le failes	1		
	AV Signature Version :	not loa	ded				
	Scan Engine Info :						
	Pattern Type :				_		
E Anti	virus Statistics						
Anti	virus Statistics						_
Anti	virus Statistics Statistics type				Co	unter	
E Anti	virus Statistics Statistics type Intelligent-prescree	ning F	'assed:		Co	unter	
Anti	virus Statistics Statistics type Intelligent-prescree Forwarded to scan e	ening F engine	'assed: :		Co	unter	
Anti	virus Statistics Statistics type Intelligent-prescree Forwarded to scan e Scan Mode	ning F ngine	'assed: :	Count	Co 0	unter	
E Anti	virus Statistics	ening F engine	'assed: :	Count 0	Co 0 er	unter	
Anti	Vrus Statistics	ning F	'assed: :	Count 0	Co 0 :er	unter	
i Anti	Virus Statistics Statistics type Intelligent-prescree Forwarded to scan of Scan Mode Scan All Scan Extension Fall Back	ning F	'assed: : Log at	Count 0 0	Cor 0 :er	Bloc	
- Anti	Vius Statistics Statistics type Intelligent-prescree Forwarded to scan e Scan Mode Scan All Scan Extension Fall Back Engine Not Ready	ning F	assed: : Log at	Count 0 0 nd Per	Co D Cer	Bloc	
- Anti	Vius Statistics Statistics type Intelligent-prescree Forwarded to scan e Scan Mode Scan Extension Fall Back Engine Not Ready Password File	ening F	'assed: : Log at 0	Count 0 0 nd Per	0 er	Bloc	
Anti	Vius Statistics Lype Intelligent prescree Forwarded to scan e Scan Mode Scan Mode Scan All Scan Extension Fall Back Engine Not Ready Password File Decompress Layee	ning F ngine	assed: : Log at 0	Count 0 nd Per	Cor 0 	Bloc	
Anti	Vius Statistics type Intelligent-preserve Forwarded to scan e Scan Mode Scan All Scan Estension Fall Back Engine Not Ready Password File Decompress Laye Corrupt File	ening F engine r	'assed: : Log at 0 0 0	Count 0 0 nd Per	Co 0 :er	Bloc	
Anti	Vitu Statistics type Statistics type Intelligence Prescree Forwarded to scan e Scan Mide Scan All Scan Estension Fall Bock Engine Not Ready Password File Decompress Laye Corrupt File Out Of Resources	rning F	'assed: : Log at 0 0 0 0	Count 0 0 nd Per	Co 0 cer	Bloc 0 0 0	
E Anti	Hus Status Statustics type Intelligent-prescree Forwarded to scan of Scan Mode Cornupt File Out Of Resources Timeout	rning F engine	*assed: : Log al 0 0 0 0	Count 0 10	Co 0 er	Bloc 0 0 0 0	
E Anti	Nu Salats Statistics type Intelligent prescree Forwarded to scan e Scan Node Scan Istension Fall Back Engine Nok Ready Decompress Laye Corrupt File Out Of Resources Timeout Masminu Content	rning F rngine r	assed: : 0 0 0 0 0	Count 0 0 ad Per	Co 0 :er	Bloc 0 0 0 0	
Anti	Wite Sabihics Statistics type Intelligent prescret Forwardel to scan Scan Noto Scan Noto Scan Strensen Fall Back Engine Not Ready Password File Decompress Laye Cortup File Out Of Resources Imenue Maximum Content Too Mary Requesi	rning F engine r r	assed: : 0 0 0 0 0 0 0 0 0 0 0	Eouni 0 0 d Per	Cor 0 cer	0 0 0 0 0 0 0 0	

4.3.5.2 Verifying a Web Filtering Configuration

To verify a Web filtering configuration:

- 1. Click the Monitor tab.
- 2. Choose Security > UTM > Web Filtering.

NOTE: If you want to clear the data, click **Clear Web Filtering Statistics**.

web Filtening Statistics			
Statistics type		Cou	nter
Total Requests :		0	
White List Hit :		0	
Black List Hit :		0	
Queries To Server :		0	
Server Reply Permit :		0	
Server Reply Block :		0	
Custom Category Permit :		0	
Custom Category Block :		0	
Cache Hit Permit :		0	
Cache Hit Block :		0	
Web Filtering Session total	:	4000)
Web Filtering Session Inuse		0	
Fall Back	og and Pe	ermit	Block
Default : 0			0
Timeout : 0			0
Server-Connectivity: 0			0
Too-Many-Requests: 0			0

4.3.5.3 Verifying an Anti-Spam Configuration

To verify an anti-spam configuration:

- 1. Click the Monitor tab.
- 2. Choose Security > UTM > Anti-Spam.

NOTE: If you want to clear the data, click **Clear Anti-Spam Statistics**.

Anti-sp	am	
UTM Ar	iti-spam Status	
	DNS Server Setting :	
	DNS Server IP	Source Interface
	Primary 208.67.222.222	fe-0/0/0
	Secondary 192.168.5.68	fe-0/0/1
	Ternary 192.168.60.131	fe-0/0/2
UTM Ar	ti-spam Statistics	
	Statistics type	Counter
	Total Connections:	0
	Denied Connections :	0
	Total Greetings :	0
	Denied Greetings :	0
	Total Email Scanned :	0
	Spam Total :	0
	Spam Tagged :	0
	Spam Dropped :	0
	DNS Errors :	0
	Timeout Errors :	0
	Return Errors :	0
	Invalid Parameter Errors :	0
	Statistics Start time :	U//28/2010 22:17:04
	Statistics for the last 10 d	ays
	Day Permitted Emails/Spa	ns
	II None found	

4.4 Intrusion Detection and Prevention

This section provides the Dell PowerConnect J-Series J-SRX100S/SU Services Gateway configuration instructions for using a predefined IDP Series policy to secure the network:

4.4.1 Downloading and Installing the Latest Security Package

4.4.2 Downloading and Installing the IDP Security Policy Templates

4.4.3 Loading the Policy Templates File

4.4.4 Configuring an Active IDP Policy

4.4.5 Enabling IDP Series Detection on the Existing Firewall Security Policy

4.4.6 Applying the IDP Configuration Settings

4.4.7 Verifying the IDP Configuration Settings

4.4.1 Downloading and Installing the Latest Security Package

To download and install the latest security package:

- Click the Configure tab and choose Security > IDP > Signature Update.
- 2. Click the **Download** tab and select **Latest Version** from the list.



3. Select **Full Package** and click **OK**. The downloading message appears.



NOTE: It will take a few minutes to download. You can verify the progress of download by clicking **Check Status** > **Download Status**.

- 4. Click OK.
- **5.** Click the **Install** tab in the Security IDP Signature Configuration page.

Install	×
Do not set to active after installed	
NOTE: This is an asynchronous process running at the back-end. It will take a while to finish.	
Install Cancel	

6. Click Install.



NOTE: The request will be processed in asynchronous mode. It will take a few minutes to install. You can verify the progress of an installation by clicking **Check Status** > **Install Status**.

- 7. Click OK. The installation successful message appears.
- 8. Click OK.

4.4.2 Downloading and Installing the IDP Security Policy Templates

To download and install the IDP security policy templates:

- Click the Configure tab and choose Security > Policy > IDP Policies.
- 2. Click the Template tab and select Download Template.



- 3. Click OK.
- 4. Click the Template tab and select Install Template.
- 5. Click OK.



NOTE: You can verify the progress of a download or installation by clicking **Check Status** > **Download Status** or **Check Status** > **Install Status**.

4.4.3 Loading the Policy Templates File

To view all the pre-defined IDP templates available on the Dell PowerConnect J-Series J-SRX100S/SU Services Gateway, you must load the policy templates file.

To load the policy templates file:

- Click the Configure tab and choose Security > Policy > IDP Policies.
- 2. Click the Template tab and select Load Template.



NOTE: It will take a few minutes to load the Templates file.

3. Click OK.

NOTE: If the configuration delivery status is fail, click **Details** for more information.

4.4.4 Configuring an Active IDP Policy



NOTE: Before you use one of the predefined Junos IDP policies as an active policy, you must load the policy templates. See **"4.4.3 Loading the Policy Templates File."**

To configure an active IDP policy:

- Click the Configure tab and choose Security > Policy > IDP Policies.
- **2.** Click the Recommended policy link, and then click **Activate** at the top right corner of the page.

			Template *	Oreck Status * 🔄 Add 📎 Edit 🗡 Dele	
Policy List					
Status	Name	Type	IPS Rule Number	Exempt Rule Number	
Ø Inactive	Web_Server	pre-defined	4	0	
Ø Inactive	DMZ_Services	pre-defined	4	0	
Ø Inactive	DNS_Service	pre-defined	3	0	
Ø Inactive	File_Server	pre-defined	4	0	
Ø Inactive	Getting_Started	pre-defined	9	0	
linactive	IDP_Default	pre-defined	3	0	
Active	Recommended	pre-defined	9	0	

4.4.5 Enabling IDP Series Detection on the Existing Firewall Security Policy

To enable IDP series detection on the existing firewall security policy from the trust zone to the untrust zone:

- Click the Configure tab and choose Security > Policy > FW Policies.
- 2. Click Edit to edit a policy.

3. Click the Application Services tab and select Enable IDP.

Add Policy			X
Policy Logging/Cour	nt Scheduling Permit Action	Application Services	
IDP Enable IDP:	Redirect-wx		

4. Click OK.

4.4.6 Applying the IDP Configuration Settings

To save the IDP configuration settings, select **Commit Options** at the top right corner of the page and click **Commit**.

4.4.7 Verifying the IDP Configuration Settings

To verify the IDP configuration settings:

- 1. Click the Monitor tab.
- 2. Choose Security > IDP > Status.

IDP			
Status			
IDP Status			
Status of IDP	Disabled		
Up Since	2010-07-28 22:14:19 ED)T (03:02:44	ago)
Packets/Second	0		
Peak	0 @ 2010-07-29 01:01:21 EDT		
Kbits/Second	0		
Peak Kbits	0 @ 2010-07-29 01:01:		
Latency (Microseconds)	[min:0] [max:0] [avg:0]		
Current Policy	none		
DP Memory Statistics			
PIC Name Total IDP Dat	a Plane Memory(MB)	Used(MB)	Available(MB)
	212	20	192

5 Powering Off the Device

To power off the services gateway, you can shut it down in one of the following ways:

- Graceful shutdown—Press and immediately release the **Power** button. The device begins gracefully shutting down the operating system.
- Forced shutdown—Press the **Power** button and hold it for 10 seconds. The device immediately shuts down. Press the **Power** button again to power on the device.



NOTE: You can reboot or halt the system in J-Web by selecting Maintain > Reboot.

6 Support and Training Options

This chapter provides a link to customer support and technical documentation information for the Dell PowerConnect J-Series J-SRX100S/SU Services Gateway device.

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6.1 Customer Support

If there are any technical issues while setting up Dell PowerConnect J-Series J-SRX100S/SU Services Gateway, contact Dell customer support **www.support.dell.com**.

6.2 Technical Documentation

For Technical documentation, refer to www.support.dell.com/manuals.



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