

Digi TransPort® Routers

Modelo WR11, WR21, WR31, WR41, WR44, WR44 R, WR44 RR

User Guide

원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

Revision history—90001019

B	May 2022	Updated content for the Digi TransPort version 5.3.x ■ Added support for IPv6. ■ Updated content for configuring supported cellular modules. ■ Added instructions for enabling health reporting via Digi Remote Manager. ■ Added descriptions for device and service settings. ■ Fixed various editorial corrections.
A	July 2021	Updated content for the Digi TransPort version 5.3.x ■ Added support for Cellular IoT in the USA.
7	March 2018	Updated content for the Digi TransPort version 5.2.x ■ Added support for automatic APN selection. ■ Added [illegible] to the overview information. ■ Added MEID identification information for certain models of DR41, DR43, and DR44 devices.
6	July 2017	■ Removed some statements for the DR41 5. ■ Added "Resetting the DR41 5" Section.
5	December 2016	Updated content for the Digi TransPort version 5.2.x ■ Changed default password behavior to comply with California law.

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Disclaimers

Warranty

Customer support

Feedback

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Contents

[illegible]

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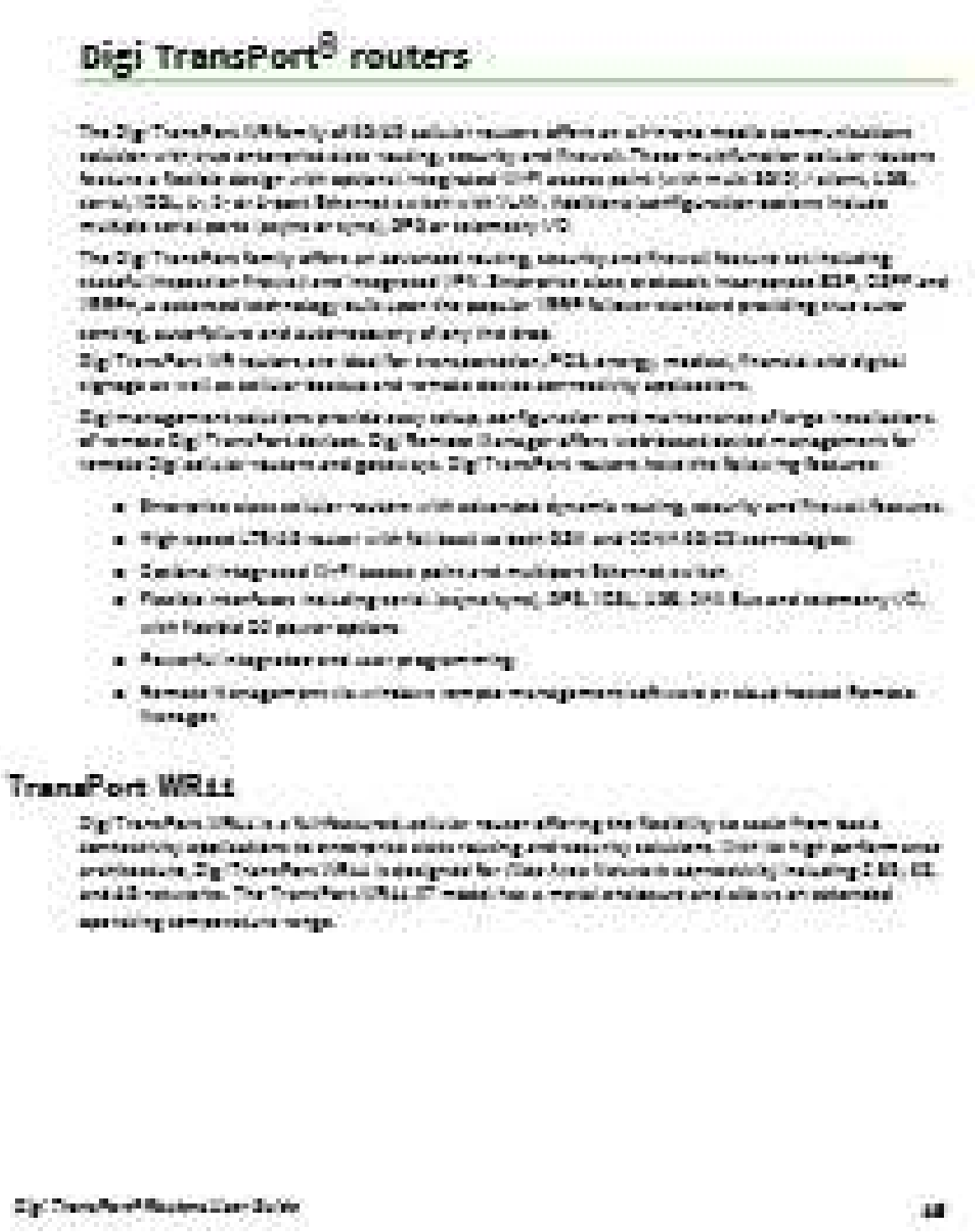


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Digi TransPort® routers

TransPort WR11

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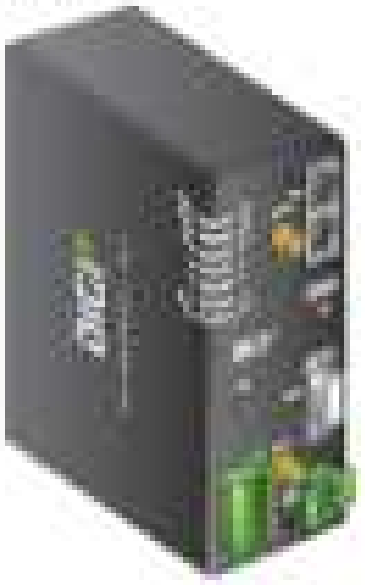
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TransPort WR21



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TransPort WR31

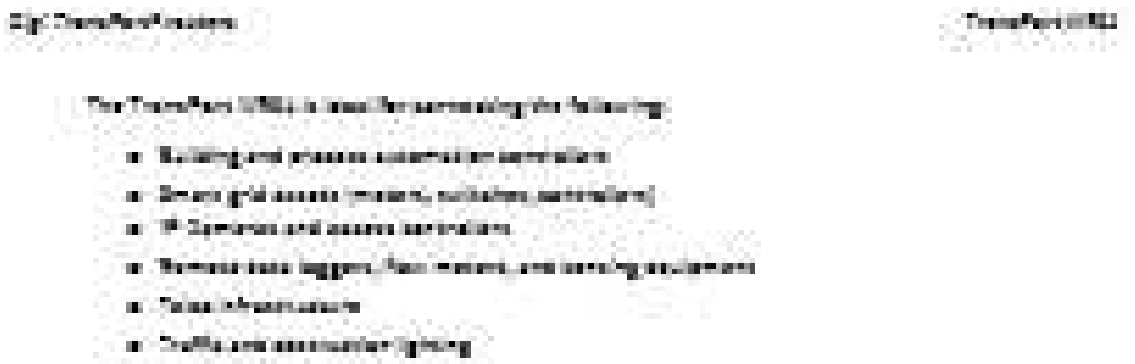


- Key features of the TransPort WR31 include:
- Dual 4G/LTE and 5G NR sub-6 support with certification on major carrier networks around the world.
- Software-defined multi-service networking with Dual 5G NR, mesh networking, and device-class operation for 5G, 4G, and 3G across all major North American carriers.
- Ethernet, serial, and I/O for connecting diverse field assets.
- Secure, resilient cellular connectivity through Digi-assisted SureLink, VRRP protocol, and dual SIM slots.
- Enterprise routing features for security, logging, and redundancy (e.g. stateful firewall, IPsec, OpenVPN, and annual enterprise software license included.
- GPS capabilities are available for GPS-enabled models.
- Digi Remote Manager provides mass configuration, device management, and troubleshooting tools.
- Rugged aluminum enclosure, optimized for DIN rail or shelf mounting.
- Optional weatherproof enclosure.
- 3-year warranty (extendable to additional years.

The TransPort WR31 provides a secure, reliable connection for industrial operations, process automation equipment, and remote field assets, all while being easy to manage and deploy. This dramatically improves operational efficiency, reduces the cost of maintenance and service calls, and also increases revenue by bringing connected products and services.

Digi TransPort WR31 User Guide 48

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TransPort WR41



TransPort WR44 / WR44 R



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TransPort WR44 RR



Hardware features

[illegible]

[illegible]

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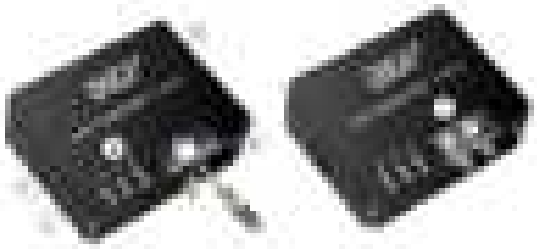
TransPort WR11 hardware features

TransPort WR11 EVDO model



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TransPort WR11 HSPA+ model



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TransPort WR11 LTE-MIMO



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TransPort WR11 XT



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TransPort WR11 accessories

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TransPort WR11 hardware specifications

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Regulatory and safety statements

RF exposure statement

FCC Part 15 Class B

Radio Frequency Interference (RFI) (FCC 15.105)

Labeling Requirements (FCC 15.19)

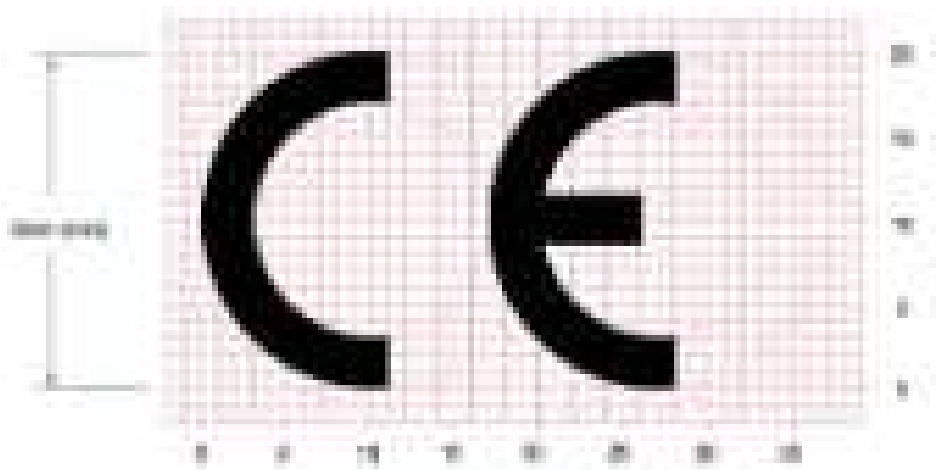
Modifications (FCC 15.21)

ConnectPort WR11 XT Declaration of Conformity

Important note

PSTN (Modem)

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[illegible]

Maximum power and frequency bands

[illegible]	[illegible]
2.4G	[illegible]
5G	[illegible]

Innovation, Science, and Economic Development Canada (IC) notifications

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

Restricted Access Location notice for Trans Part WR11 XT

Because of the hot metal surface of the enclosure, installations in an operating temperature greater than 40° C (104° F) must be limited to Restricted Access Locations accessible only to technical service personnel.

Safety notices

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]

[illegible]

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TransPort WR21 hardware features

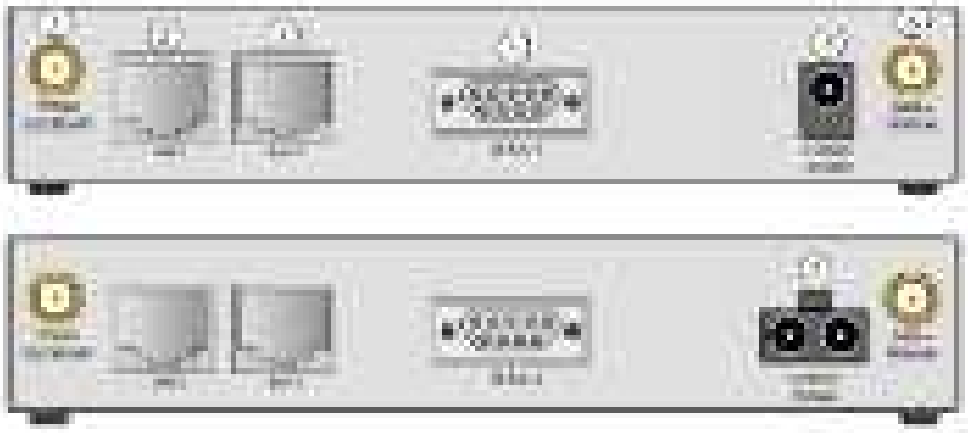
TransPort WR21 front panel



1. [illegible]
2. POWER LED:
   - Off: No power
   - Green: TransPort device is powered
3. SERVICE LED:
   - Off: No [illegible] network connection
   - Green: [illegible] network connection
   - Flashing: [illegible] notifying connected users of reboot
4. WWAN [Wireless Network] LED: Indicates the presence and level of cellular service running on the device:
   - Off: No cellular service
   - 1 Bar: 2G RSSI
   - 2 Bars: 3G RSSI
   - 3 Bars: [illegible] RSSI
   - 4 Bars: [illegible] RSSI
   - 5 Bars: [illegible] RSSI
   - 6 Bars: LTE RSSI
5. WWAN LED: Indicates strength of cellular signal:
   - 1 LED: Excellent
   - 2 LEDs: Good
   - 3 LEDs: Fair
   - 4 LEDs: Poor or No signal
6. Reset button: Returns the router to its factory default settings. See [illegible] factory defaults.
7. USB host connection: Connects compatible USB 2.0 client devices such as memory sticks, and serial adapters. The total current available to power USB devices is 0.5 A.

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TransPort WR21 rear panel features



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[illegible]

Reset the TransPort WR21

1. [illegible]
2. [illegible]

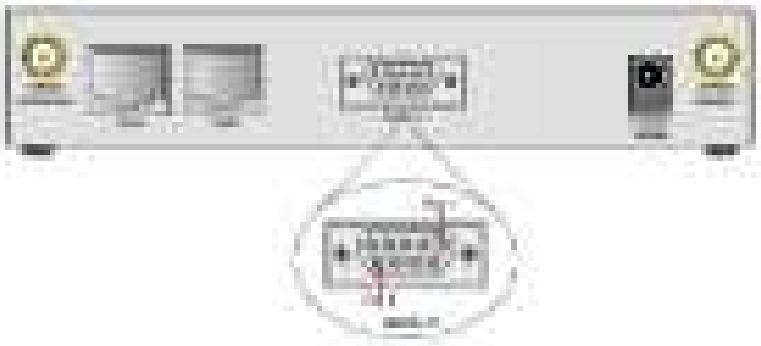


[illegible]

[illegible]

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TransPort WR21 serial pinout



1	Out	DCD	Data Carrier Detect
2	Out	RXD	Receive Data
3	In	TXD	Transmit Data
4	In	DTR	Data Terminal Ready
5	N/A	GND	Ground
6	Out	DSR	Data Set Ready
7	In	RTS	Ready To Send
8	Out	CTS	Clear To Send
9	Out	RI	Ring Indicator

1	Out	CTS+	Clear To Send +
2	Out	RX+	Receive Data +
3	In	TX+	Transmit Data+
4	In	RTS & RTS-	Ready To Send +
5	Out	GND	Ground

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[illegible]

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

- [illegible]
- [illegible]

[illegible]

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TransPort WR21 accessories

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TransPort WR21 hardware specifications

Regulatory and safety statements

RF exposure statement

FCC Part 15 Class B

Radio Frequency Interference (RFI) (FCC 15.105)

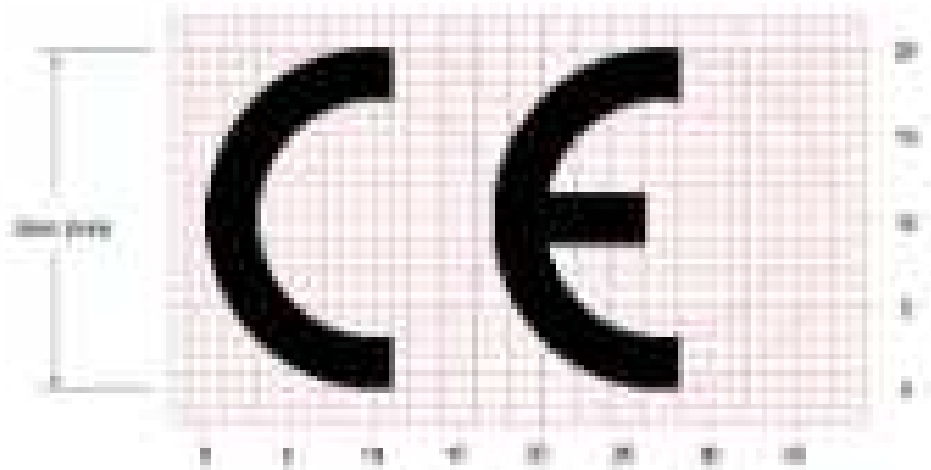
Labeling Requirements (FCC 15.19)

Modifications (FCC 15.21)

TransPort WR21 EU Declaration of Conformity

Disposal of waste

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[illegible]

Maximum power and frequency bands

[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

Innovation, Science, and Economic Development Canada (ISC) notifications

[illegible]

Hazardous Location installation information for TransPort WR11

[illegible]

Safety notices

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]

[illegible]

















TransPort WR31 hardware features



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[illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
   a. [illegible]
      [illegible]
      [illegible]
   b. [illegible]
      [illegible]
      [illegible]
      [illegible]
   c. [illegible]
      [illegible]
      1. [illegible]
      2. [illegible]
      3. [illegible]
      4. [illegible]
      5. [illegible]
      6. [illegible]
   d. [illegible]
      [illegible]
      2. [illegible]
      3. [illegible]
      4. [illegible]
      5. [illegible]
   e. [illegible]
5. [illegible]

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TransPort WR21 hardware specifications

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TransPort WR21 accessories

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TransPort WR21 mounting options

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Hazardous Location Installation

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TransPort WR21 serial pinout



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[illegible]

[illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

- [illegible]
- [illegible]

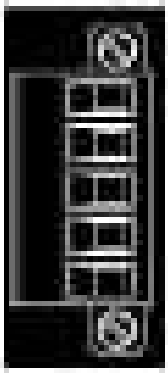
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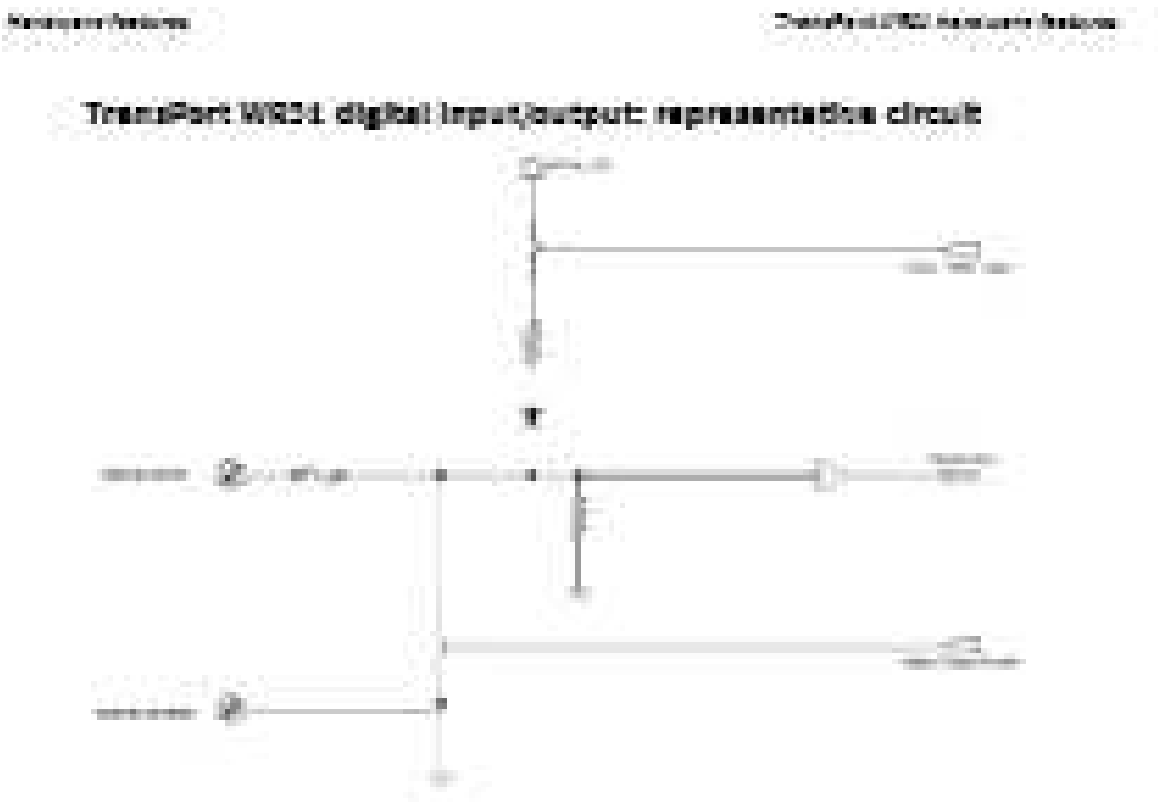
TransPort WR21 digital and analog inputs and outputs

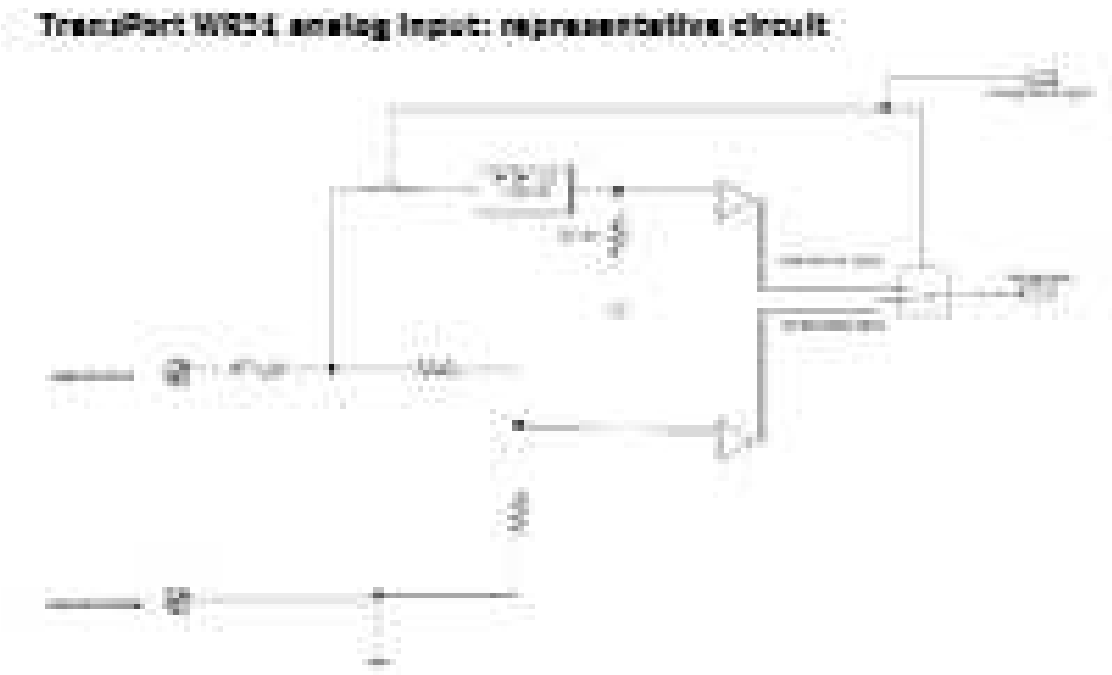
I/O connector pin assignments



8		
7		
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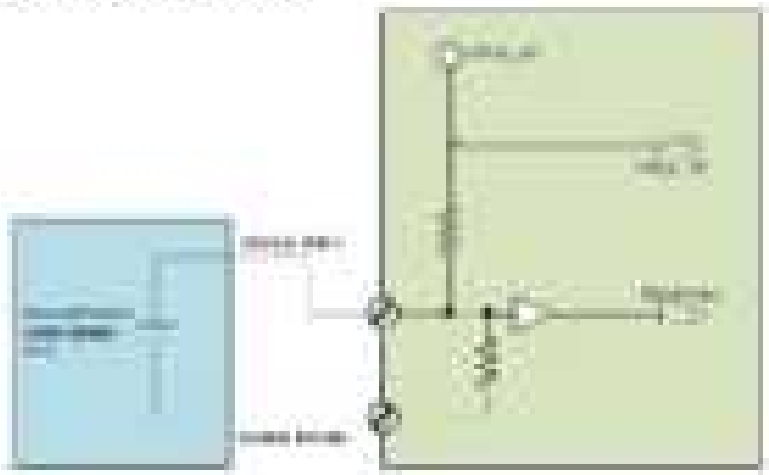
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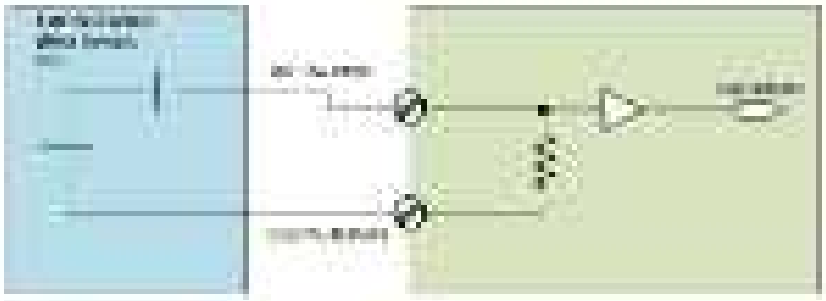


Example digital and analog I/O wiring

Digital input with pullup

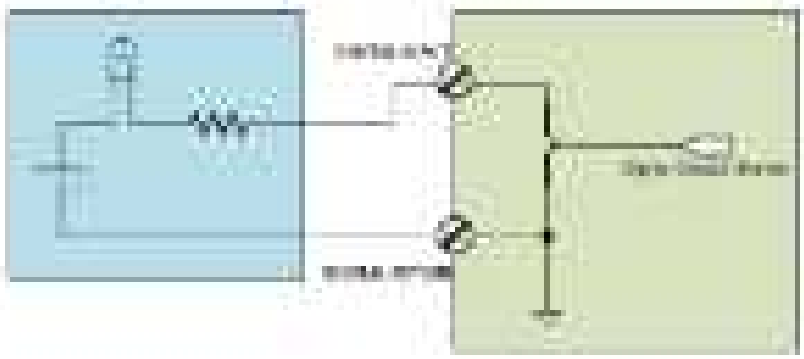


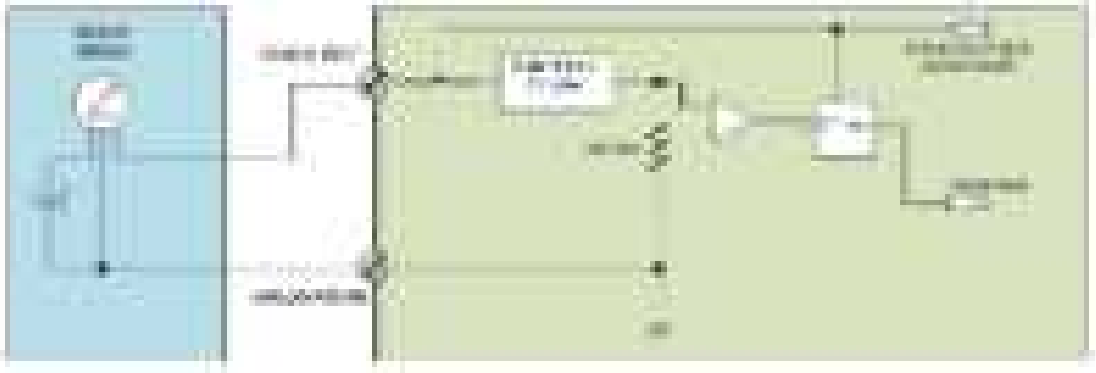
Digital input without pullup

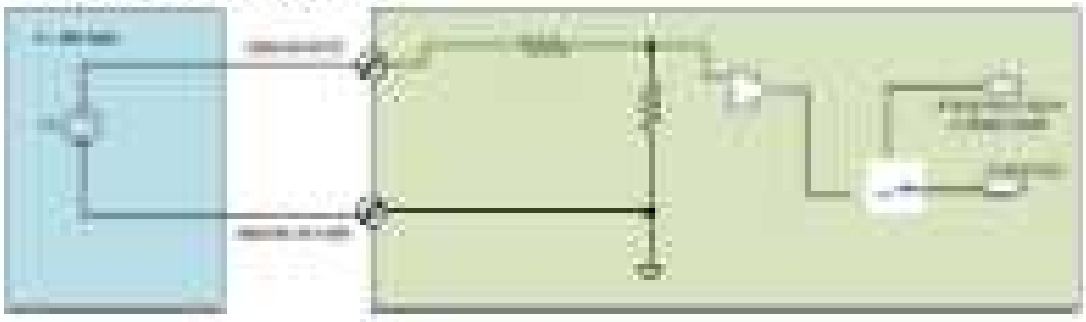


Digital output

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Digital and analog I/O specifications

Digital I/O specifications

Digital input specifications

- [illegible]
- [illegible]

Digital output

- [illegible]
- [illegible]

Analog input specifications

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Regulatory and safety statements

RF exposure statement

FCC Part 15 Class B

Radio Frequency Interference (RFI) (FCC 15.105)

Labeling Requirements (FCC 15.19)

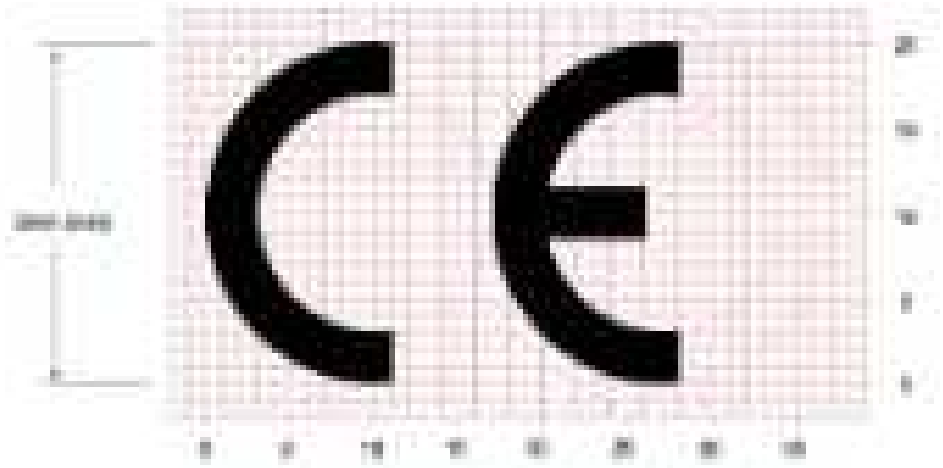
Modifications (FCC 15.21)

ConnectPort WR11 XT Declaration of Conformity

Important note

PSTN (Modem)

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Maximum power and frequency bands

[illegible]	[illegible]
2.4	[illegible]
5	[illegible]
[illegible]	[illegible]

[illegible]

[illegible]

[illegible]

Safety notices

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]

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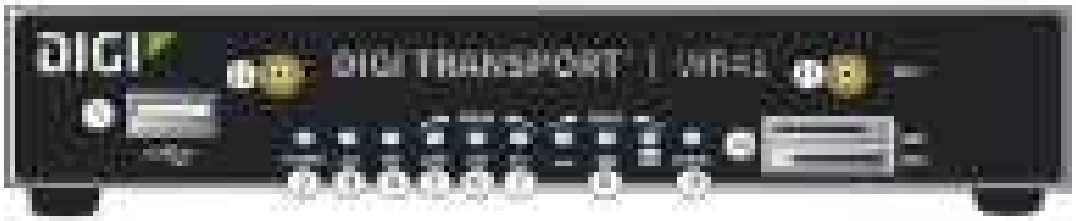
원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.



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TransPort WR41 hardware features

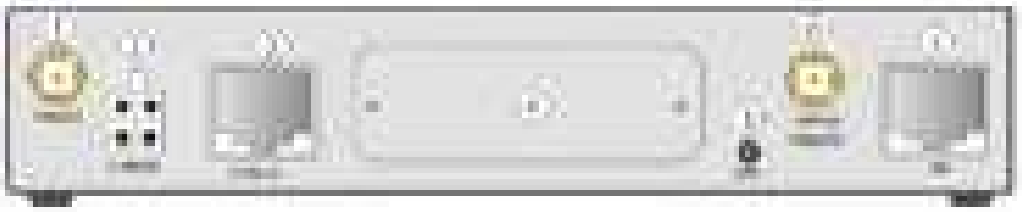
Front panel



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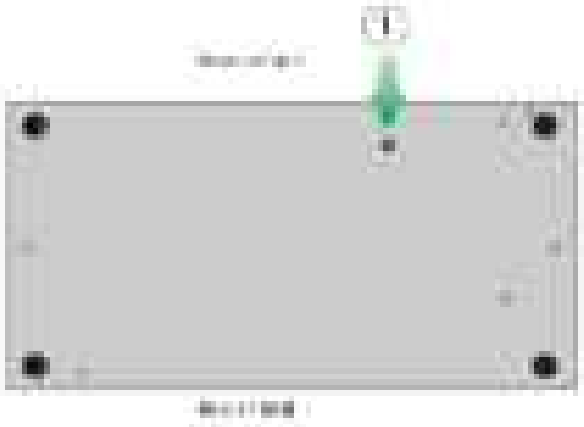
Rear panel





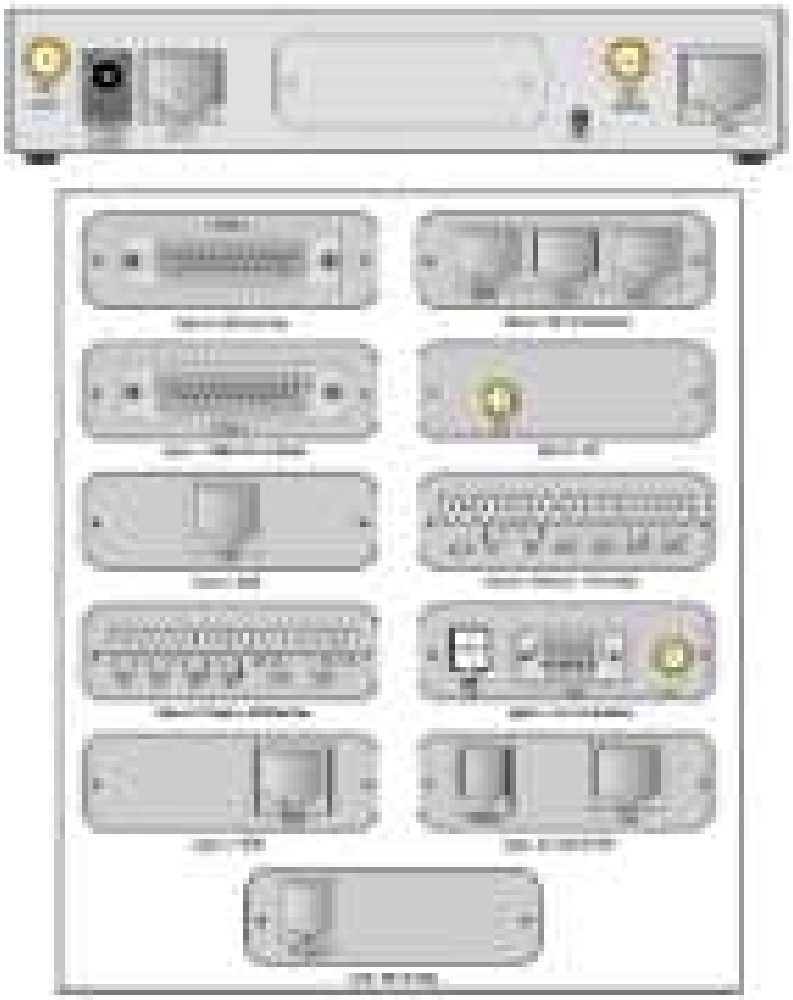
원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

Underside of unit features



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Additional hardware features



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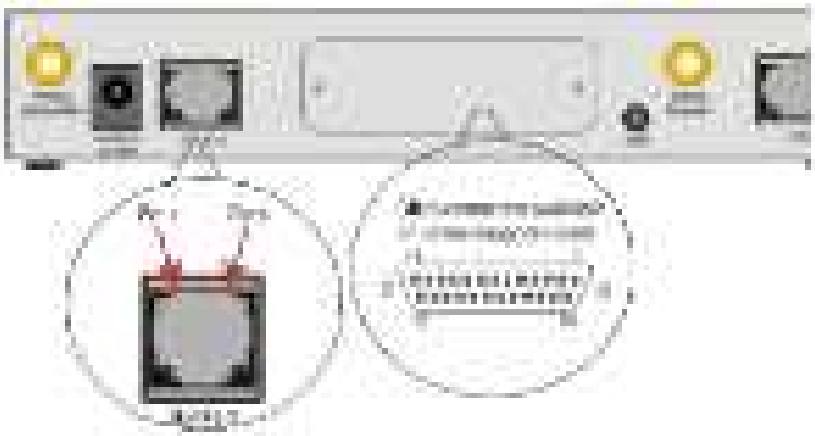
원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

TransPort WR41 hardware specifications

TransPort WR41 accessories

원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

TransPort WR41 serial pinout



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Regulatory and safety statements

RF exposure statement

FCC Part 15 Class B

Radio Frequency Interference (RFI) (FCC 15.105)

Labeling Requirements (FCC 15.19)

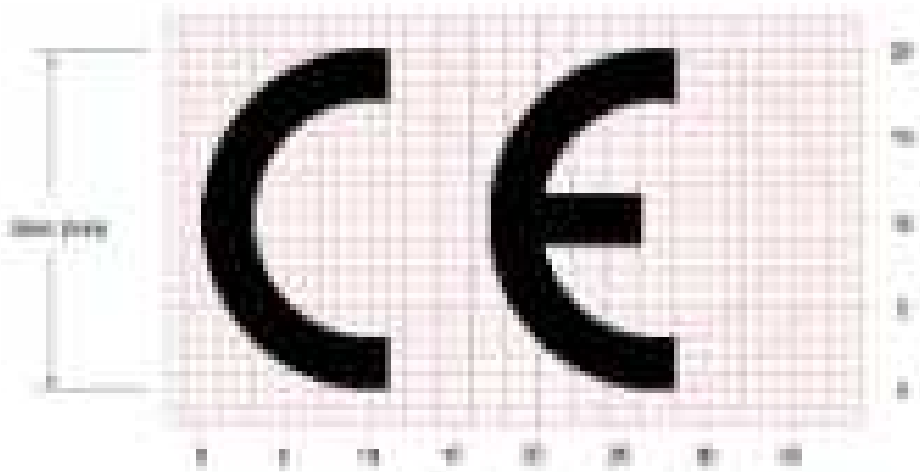
Modifications (FCC 15.21)

ThreePak WR44 RR Declaration of Conformity

Important note

CE mark (Europe)

원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.



원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

[illegible]

[illegible]

Safety notices

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]

Special notices for safety for wireless devices

[illegible]

[illegible]

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원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.













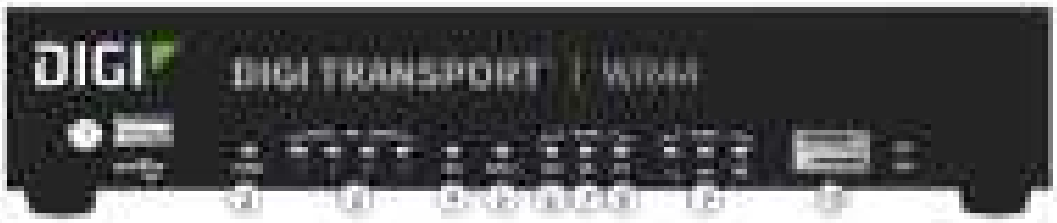


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TransPort WR44 / WR44 R hardware features

Front panel

TransPort WR44 models with cellular interface



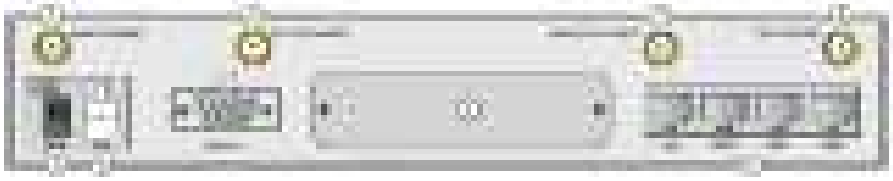
TransPort WR44 models without SIM card slots



1. USB host connection: Connects compatible USB 2.0 client devices such as memory sticks and serial adapters. The total current available to power USB devices is 0.5 A.
2. POWER LED:
   - Off: No power
   - Green: TransPort device is powered
3. LAN (1, 2, 3, 4) LED: Illuminates steadily when there is a network connection to the LAN port and flashes when data is transmitted or received.
4. Wi-Fi LED:
   - Wi-Fi models: Illuminates steadily if Wi-Fi activity is present.
5. SERIAL LED: Illuminates steadily if a serial device is connected to the SERIAL port and the DTR signal is on. Flashes when data is transmitted or received.
6. LINK LED: Illuminates steadily when a wireless data connection has been established.
7. SIM LED:
   - Cellular models: Illuminates steadily when a valid SIM card is inserted.
   - Models without cellular interface: Not applicable.
8. ACT LED: Flashes to indicate that data is being transferred over the wireless network.

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Rear panel



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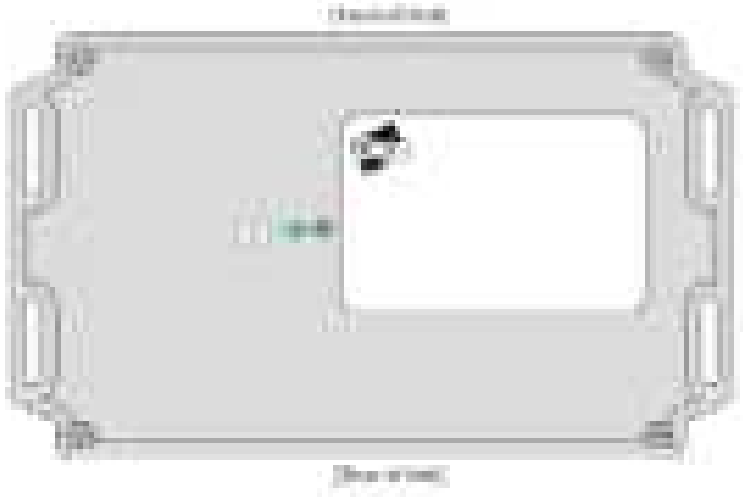
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Underside of unit

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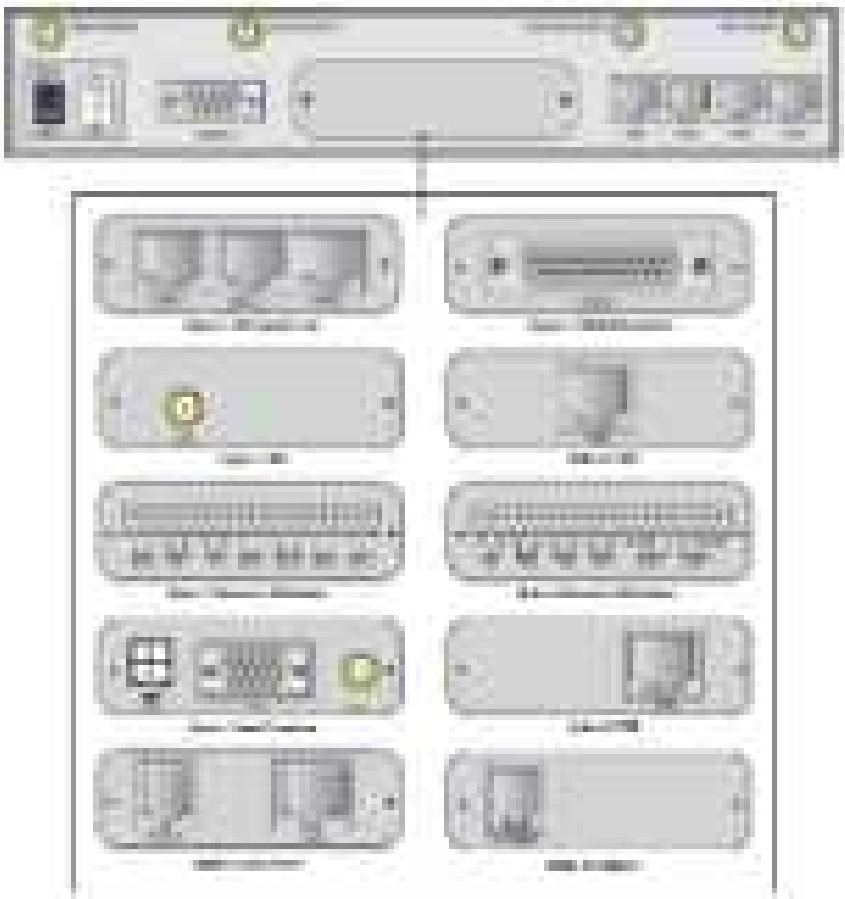
Enclosure features





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TransPort WR44 additional hardware features



Powering the TransPort WR44 R

TransPort WR44 hardware specifications

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TransPort WR44 R hardware specifications

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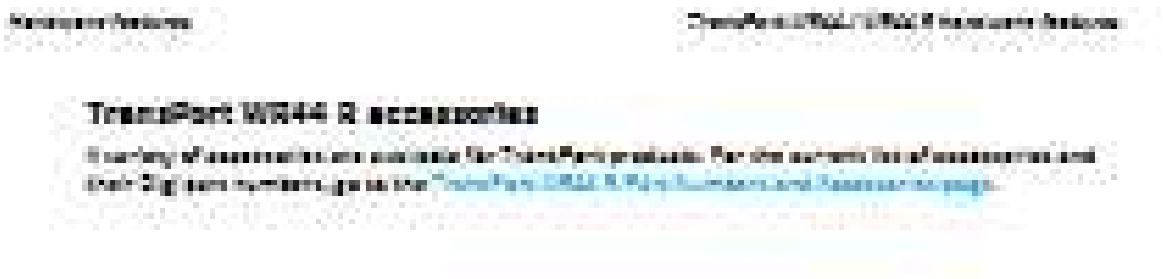
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원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

TransPort WR44 accessories

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TransPort WR44 / WR44 R RS232 serial pinout

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Regulatory and safety statements

RF exposure statement

FCC Part 15 Class B

Radio Frequency Interference (RFI) (FCC 15.105)

Labeling Requirements (FCC 15.19)

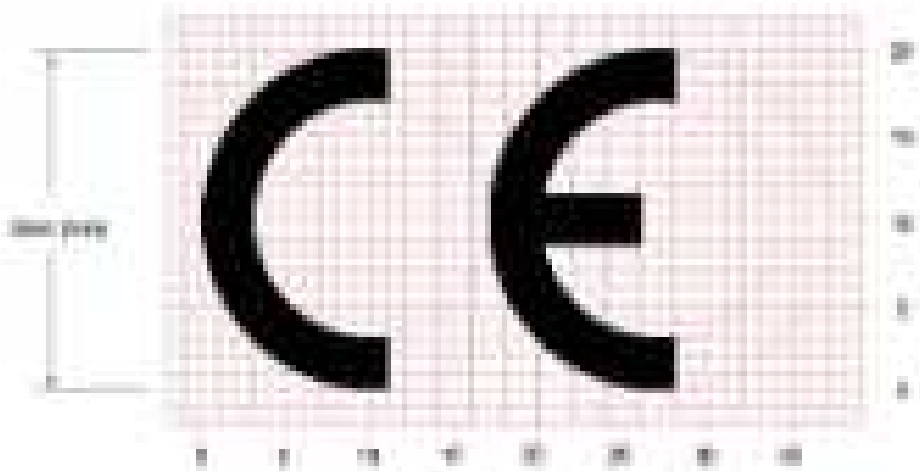
Modifications (FCC 15.21)

ConnectPort X5-M Declaration of Conformity

Important note

CE mark (Europe)

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Innovation, Science, and Economic Development Canada (IC) notifications

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

Safety notices

1. Please read all instructions before installing and powering the router. You should keep these instructions in a safe place for future reference.
2. Only use a suitable mains power supply as mentioned in the user guide for the router. Disconnect the power supply before removing your router for a repair or replacement.
3. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Only the accessories, attachments, and spare parts provided by the manufacturer are suitable for use with this router. Using other power supplies may damage the router, cause interference or unsafe operation of the router, may be illegal, and will void the warranty.
4. Do not attempt to repair the router. The router contains no user-serviceable components that can be serviced or replaced by the user. Any attempt to service or repair the router by the user will void the product warranty.
5. The PoE IN/OUT devices used for the ER605 are designed for indoor use. Use them in an environment suitable for computers and other electronic equipment.
6. Ports that are capable of connecting to other apparatus are defined as SELV ports. To ensure conformity with IEC62368 ensure that these ports are only connected to ports of the same type on other apparatus.

Special notes on safety for wireless routers

Digi International products are designed to the highest standards of safety and international standards compliance for the markets in which they are sold. However, certain radio frequency products cannot operate in all locations without requiring specific considerations. Please note the items listed and understand the following guidelines. Digi International assumes no liability for any end user's failure to comply with these precautions.

[illegible] 92

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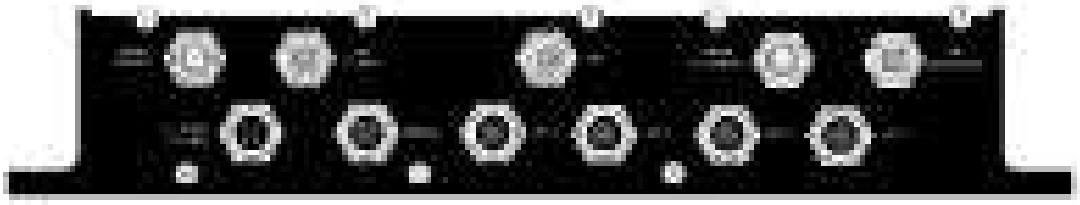


TransPort WR44 RR hardware features

Front panel



Rear panel



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4. [illegible]
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6. [illegible]
7. [illegible]
8. [illegible]

Enclosure features



1. [illegible]
2. [illegible]

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원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

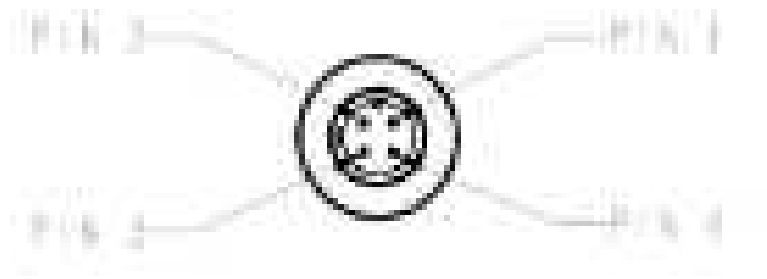
TransPort WR44 RR hardware specifications

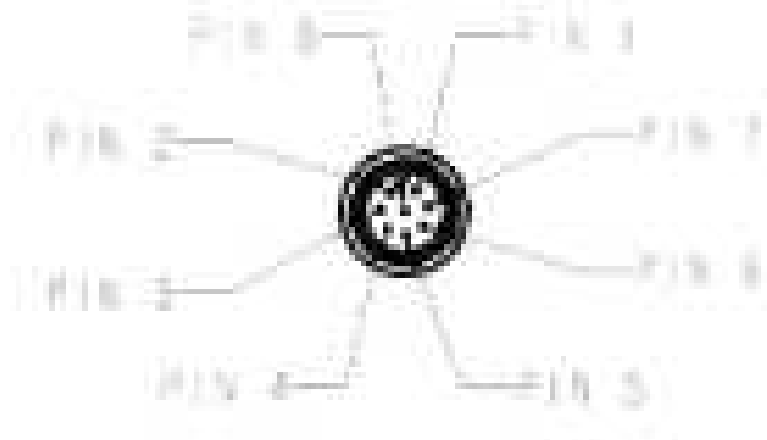
원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

TransPort WR44 RR accessories

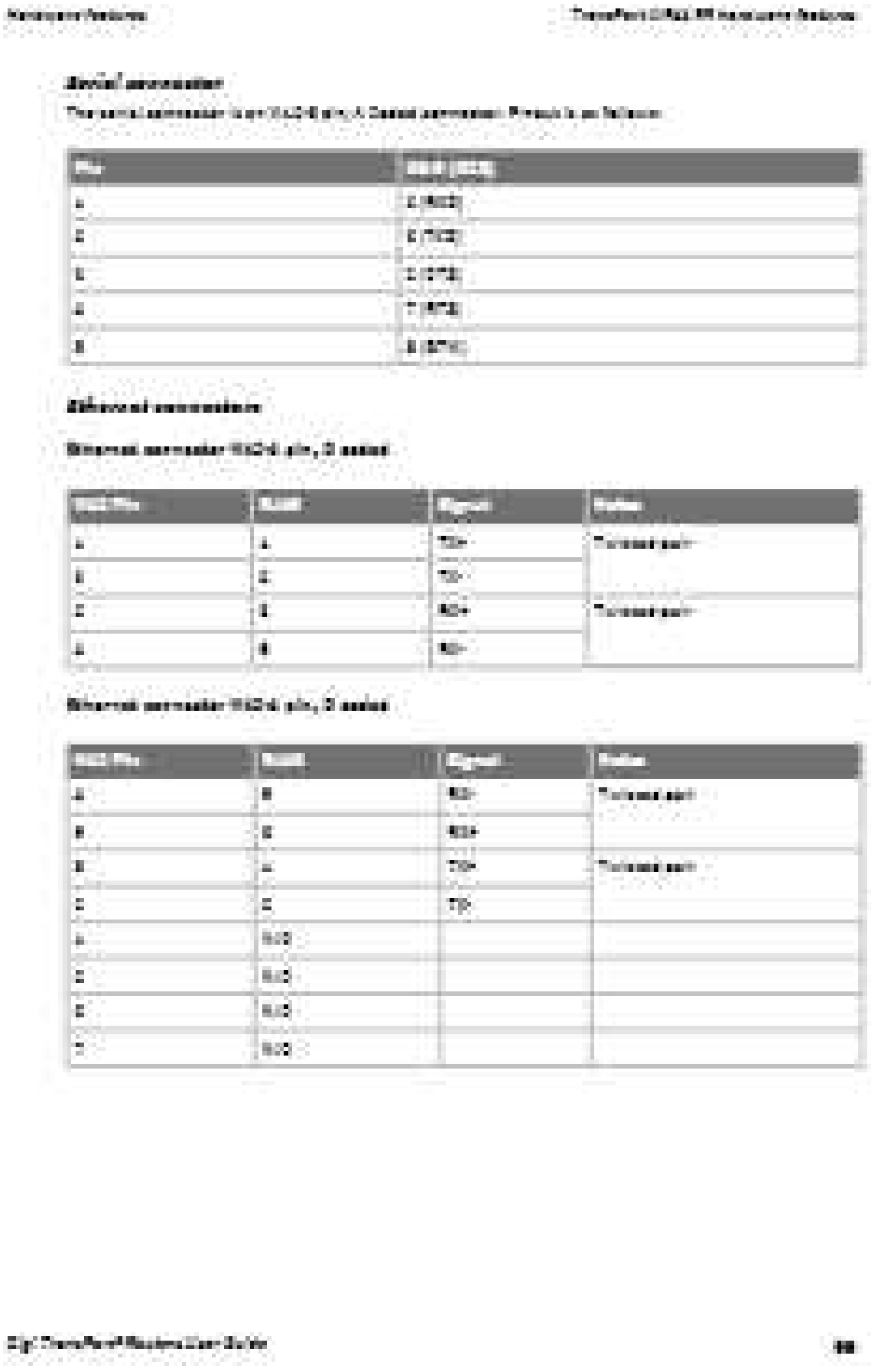
원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

TransPort WR44 RR Ethernet cable connectors and pinouts





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Regulatory and safety statements

RF exposure statement

FCC Part 15 Class B

Radio Frequency Interference (RFI) (FCC 15.105)

Labeling Requirements (FCC 15.19)

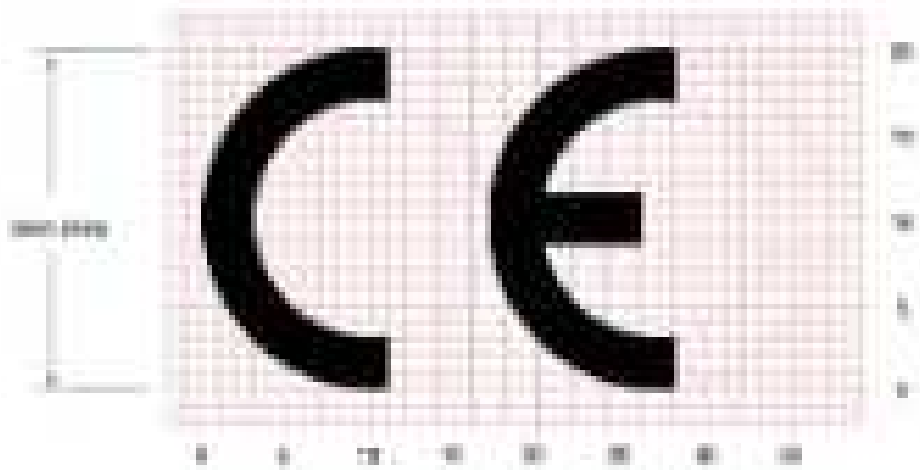
Modifications (FCC 15.21)

ThreePeak WR11 XT Declaration of Conformity

Important note

CE mark (Europe)

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[illegible]

Innovation, Science, and Economic Development Canada (IC) notifications

[illegible]

Safety notices

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]

Special notes on safety for wireless routers

[illegible]

[illegible]

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[illegible]

Purchase additional serial cables

[illegible]

[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

[illegible]

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Signal strength indicators

Antenna specifications for Wi-Fi 2.4 GHz modules

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Log in to the device

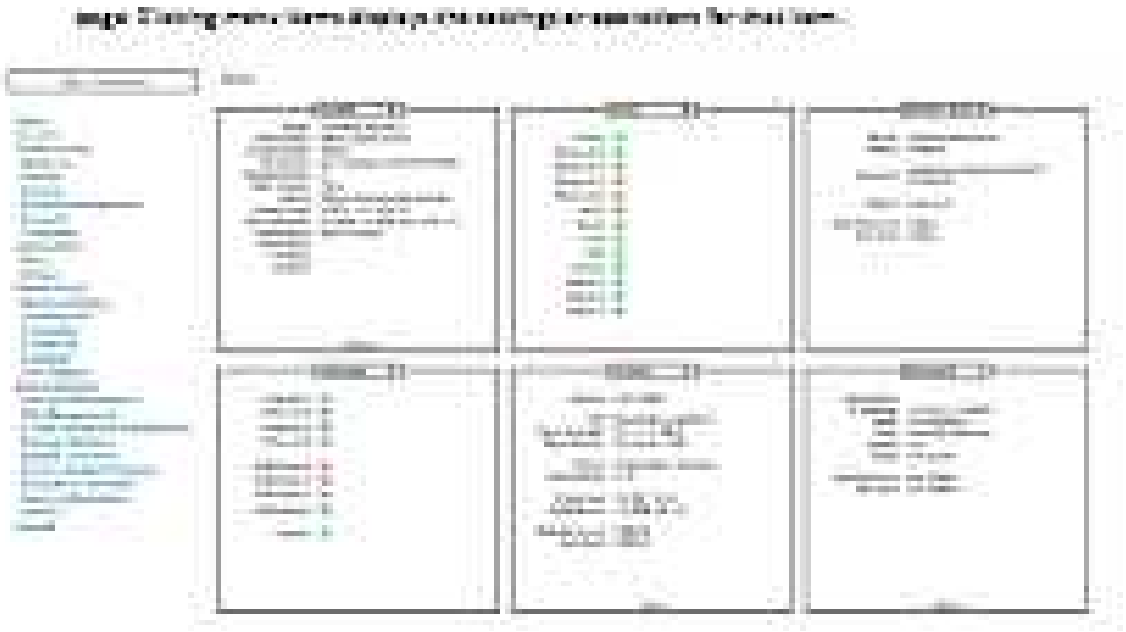
1. [redacted]
2. [redacted]
3. [redacted]
   a. [redacted]
   b. [redacted]
   c. [redacted]
   d. [redacted]
4. [redacted]

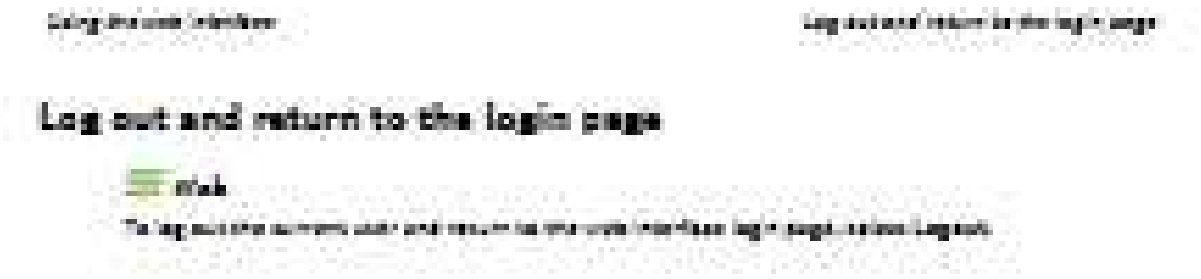
TRANSPORT WR44V2 (SKC 933354) CONFIGURATION AND MANAGEMENT



[redacted]

원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.





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Execute a command from the web interface

Web



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Signal strength indicators on the Mobile status page





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Use the web interface wizards



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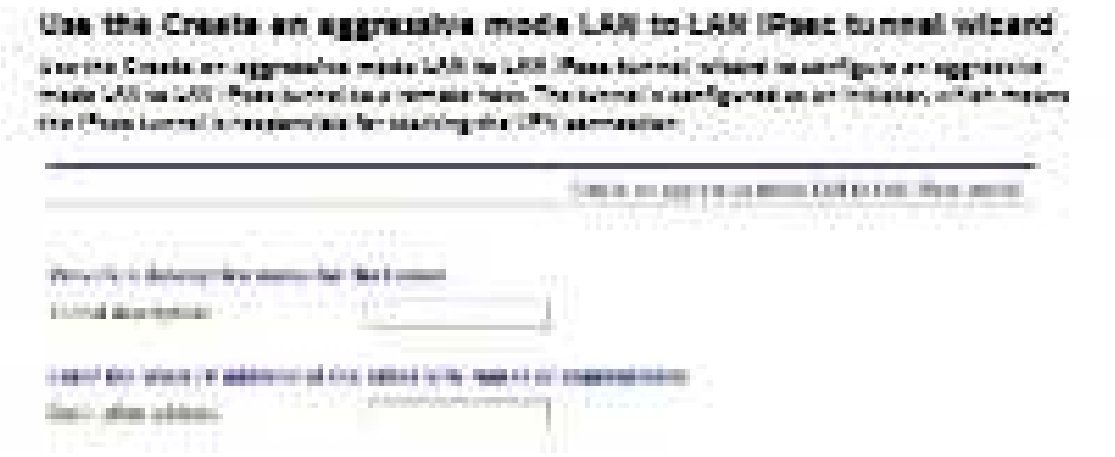
Use the Quick Start wizard



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Use the SureLink wizard



Passive DoS detection techniques

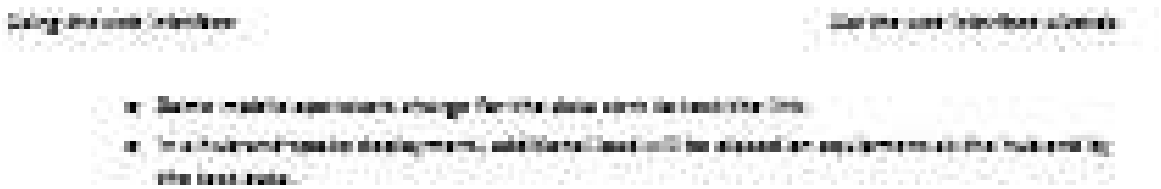
- [redacted]
- [redacted]

- [redacted]
- [redacted]

Active DoS detection techniques

- [redacted]
- [redacted]

원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.



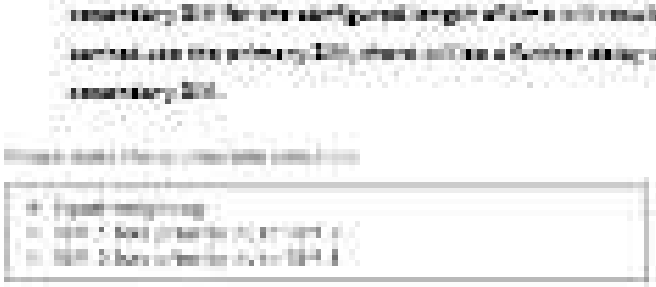




Use the GOBI Module Carrier wizard

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Use the Dual SIM wizard

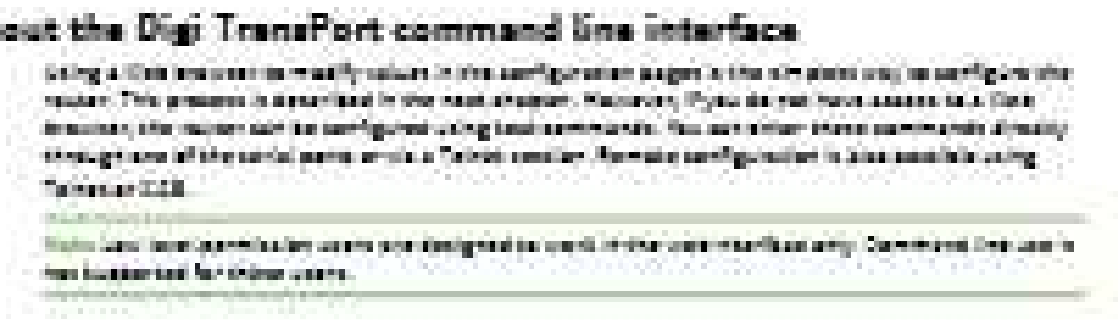


원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

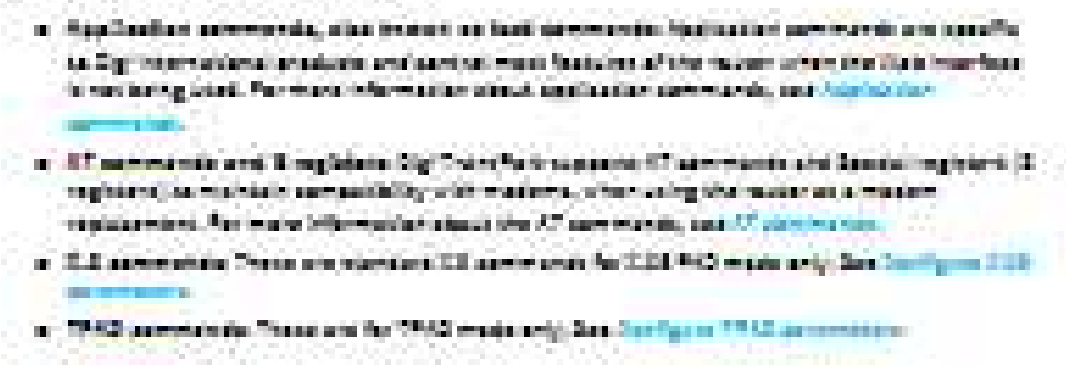
Using the command-line interface



About the Digi TransPort command line interface



Supported command types



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Required software for using the command line

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Connect to the TransPort router from a PC

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Log in to the command line interface



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Exit the command line interface



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Commands and the active port

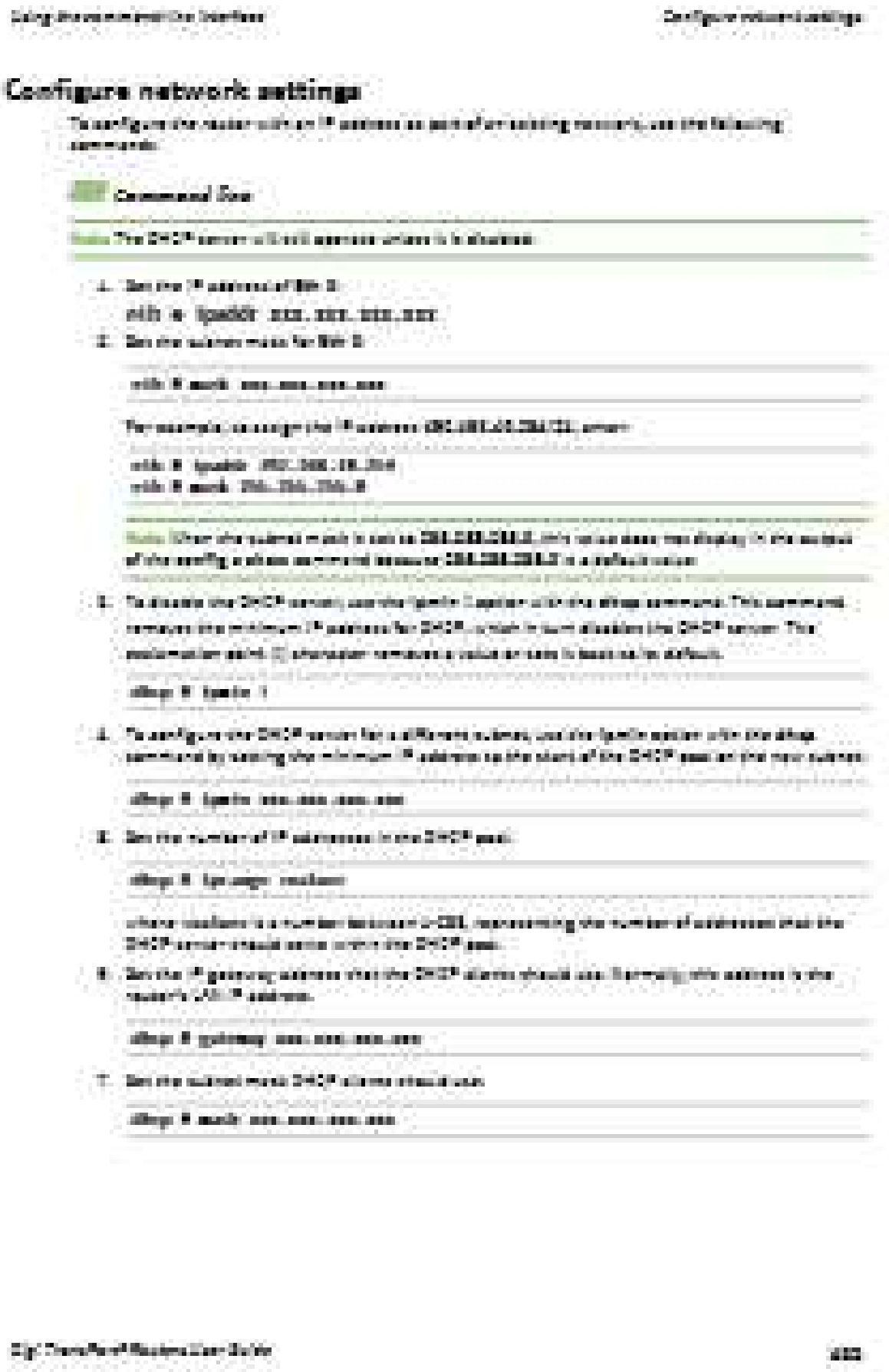
원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

When commands take effect



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Configure network settings

To configure the router with an IP address or perform routing protocols, use the following commands:

Command See

Note The DHCP server will not assign values to disabled

1. Set the IP address of the E
   eth-e ipaddr xxx.xxx.xxx.xxx
2. Set the subnet mask for the E

   eth-E mask xxx.xxx.xxx.xxx

   For example, to assign the IP address [illegible] enter:

   eth-E ipaddr [illegible]
   eth-E mask [illegible]

   Note When the subnet mask is set to [illegible] this value does not display in the output of the config-e show command because [illegible] is a default value.

3. To disable the DHCP server, use the ipaddr 1 option with the dhcp command. This command removes the minimum IP address for DHCP, which in turn disables the DHCP server. The exclamation point (!) character removes a value or sets it back to its default.

   dhcp-E ipaddr !

4. To configure the DHCP server for a different subnet, use the ipaddr option with the dhcp command by setting the minimum IP address as the start of the DHCP pool on the new subnet.

   dhcp-E ipaddr xxx.xxx.xxx.xxx

5. Set the number of IP addresses in the DHCP pool.

   dhcp-E ipaddr number

   where number is a number between 1-253, representing the number of addresses that the DHCP server should serve within the DHCP pool.

6. Set the IP gateway address that the DHCP clients should use. Normally this address is the router's LAN IP address.

   dhcp-E gateway xxx.xxx.xxx.xxx

7. Set the subnet mask DHCP clients should use.

   dhcp-E mask xxx.xxx.xxx.xxx

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Establish a remote connection

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Application commands

Application commands are case-insensitive

One command per line

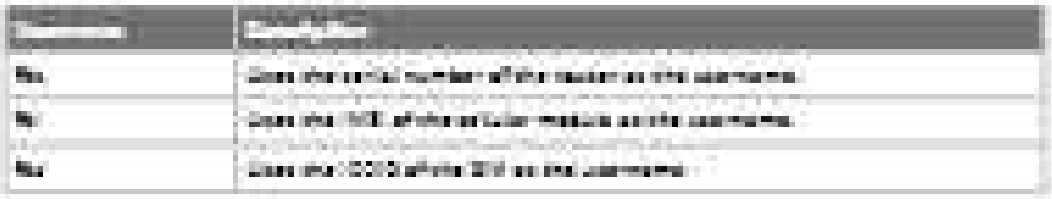
Application command syntax

Use wildcards in commands

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Use special usernames in commands



Using the command-line parameter tables in this guide

Command line

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
eth	n	dever	Pre [illegible]	Description
eth	n	ipaddr	Valid IP address	IP address
eth	n	mask	Valid Subnet Mask	Mask
eth	n	gateway	IP address	Gateway
eth	n	dnsserver	IP address	DNS Server
eth	n	sedary	IP address	Secondary DNS Server
eth	n	dhcpd	DHCP or	Get Device IP address automatically using DHCP Or use the following IP address

[illegible]

[illegible]

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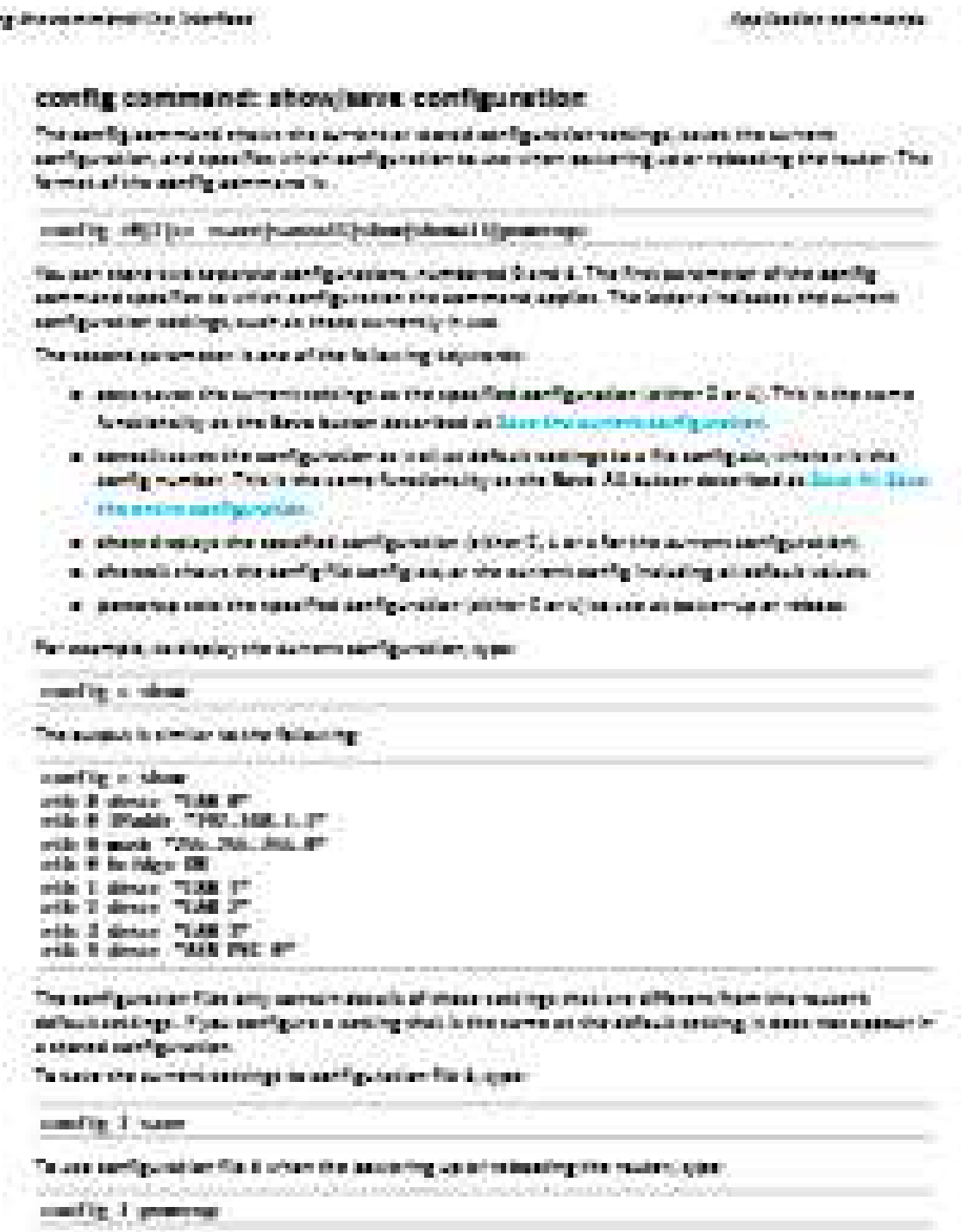
Activate and deactivate interfaces

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and command: Clear the Analyser Trace

config command: show/save configuration



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config changes command: show number of changes counter



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gpio command: General Purpose Input Output (GPIO)

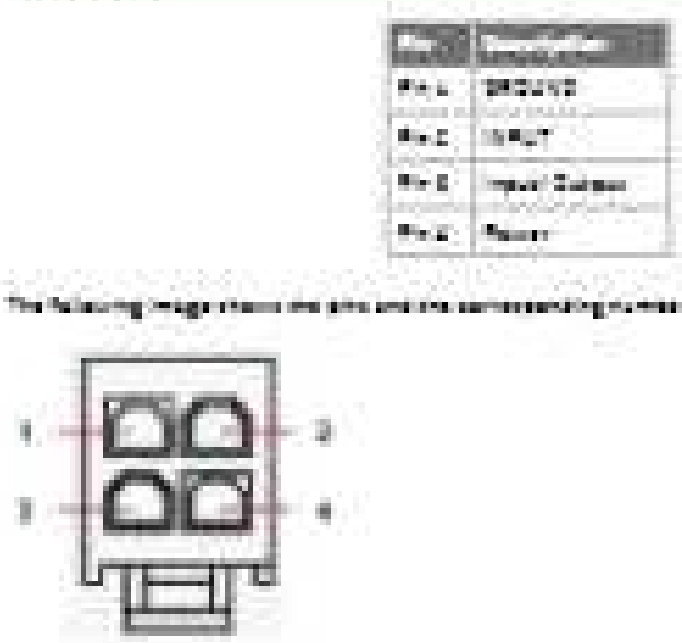
Command	Description
gpio mux input	Configures the I/O pins as an input.
gpio mux output	Configures the I/O pins as an output.
gpio mux on	Sets the I/O pins to an when configured as an output.
gpio mux off	Sets the I/O pins to off when configured as an output.

Display current status of pins

Set the I/O pins as an output

Set the I/O pins as ON when configured as an output

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ping command: Troubleshoot connectivity problems

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qdl command: Select cellular image to load

0	
1	
2	
3	
4	
5	
6	
7	
8	
9	
a	
b	
c	
d	
e	

원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

reboot command: reboot router

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tcpperm command: establish a permanent serial to IP connection

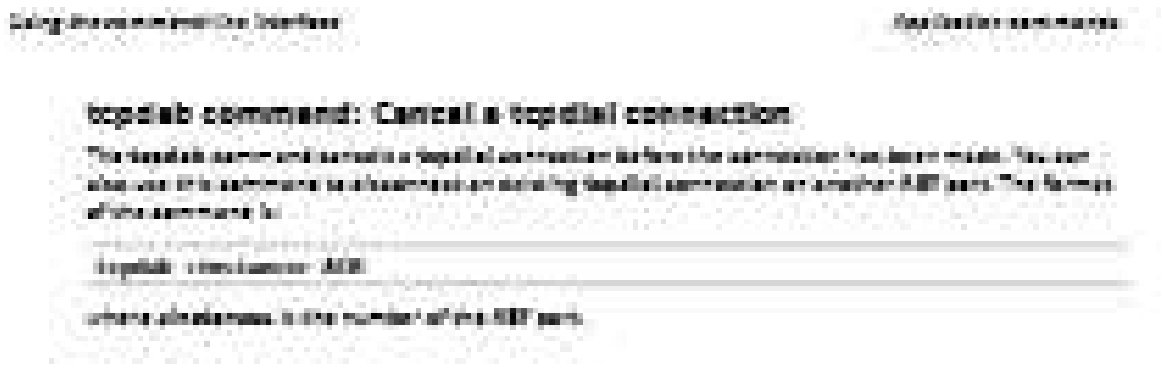
-d	
Data Bits	
Data Bits	
-p	
tcp	
-a	
-k	
-t	
-ka	
-c	
-b	

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tcpclist command: Establish a manually initiated serial to IP connection

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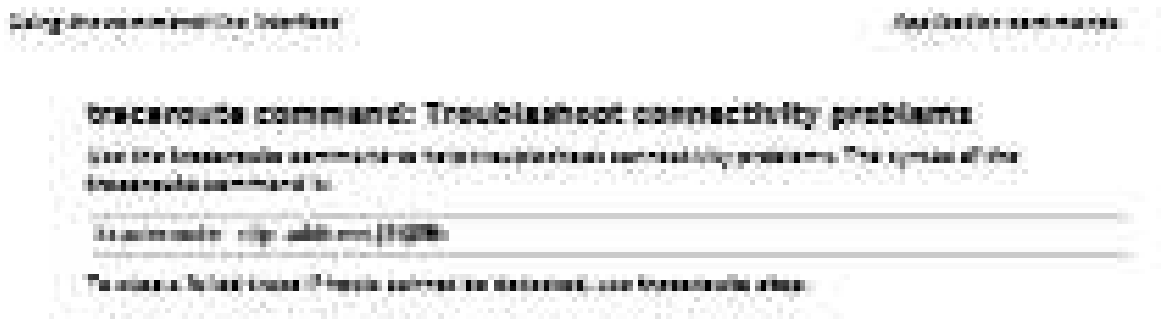


tcpclab command: Cancel a tcpclist connection

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tempLog command: monitor router temperature

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traceroute command: Troubleshoot connectivity problems



AT commands

The AT command interface

Enter multiple commands

Use escape sequences

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[illegible] [illegible]

AT command result codes

[illegible]

[illegible]	[illegible]	[illegible]
0	OK	Command line executed correctly
1	[illegible]	connection established
2	[illegible]	Incoming ring signal detected
3	[illegible]	service not available
4	[illegible]	Error in command line
6	[illegible]	service not available
7	[illegible]	Phone already in use
8	[illegible]	No response from remote

[illegible] [illegible]

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[illegible]

[illegible]: Dial a call

[illegible]

[illegible]

[illegible]

[illegible] with a specified subscriber

[illegible]

[illegible] stored numbers

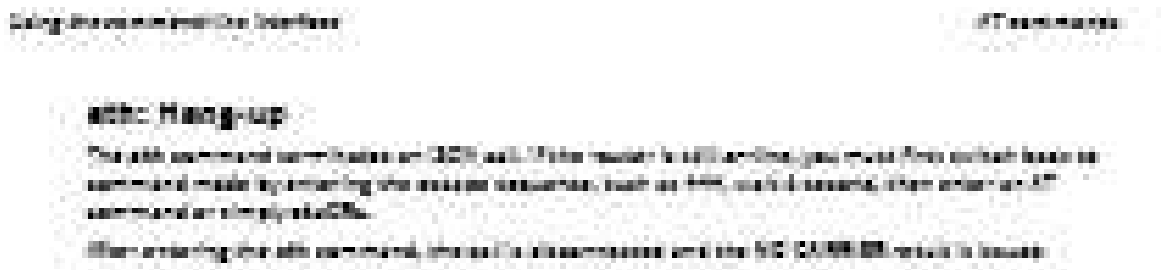
[illegible]

[illegible] USSD and SIM calls

[illegible]

[illegible]

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[illegible]

[illegible]

acc: Reset

[illegible]

[illegible]

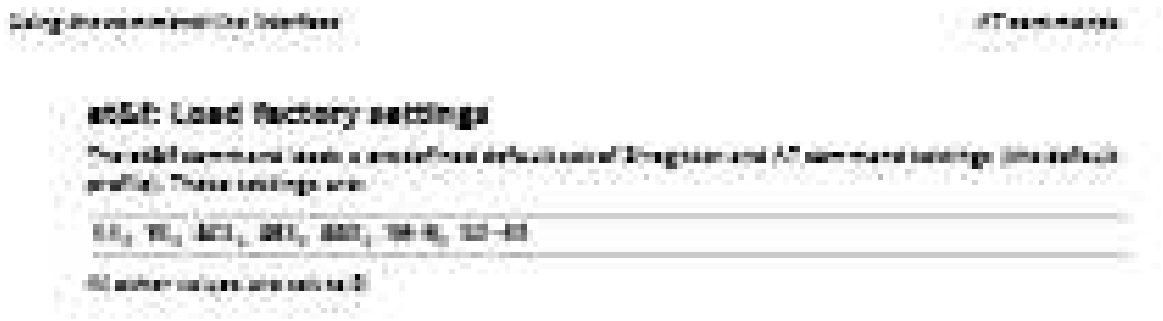
[illegible]

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atsc: Control the DCD signal

- [redacted]
- [redacted]
- [redacted]
- [redacted]

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at&f: Load factory settings

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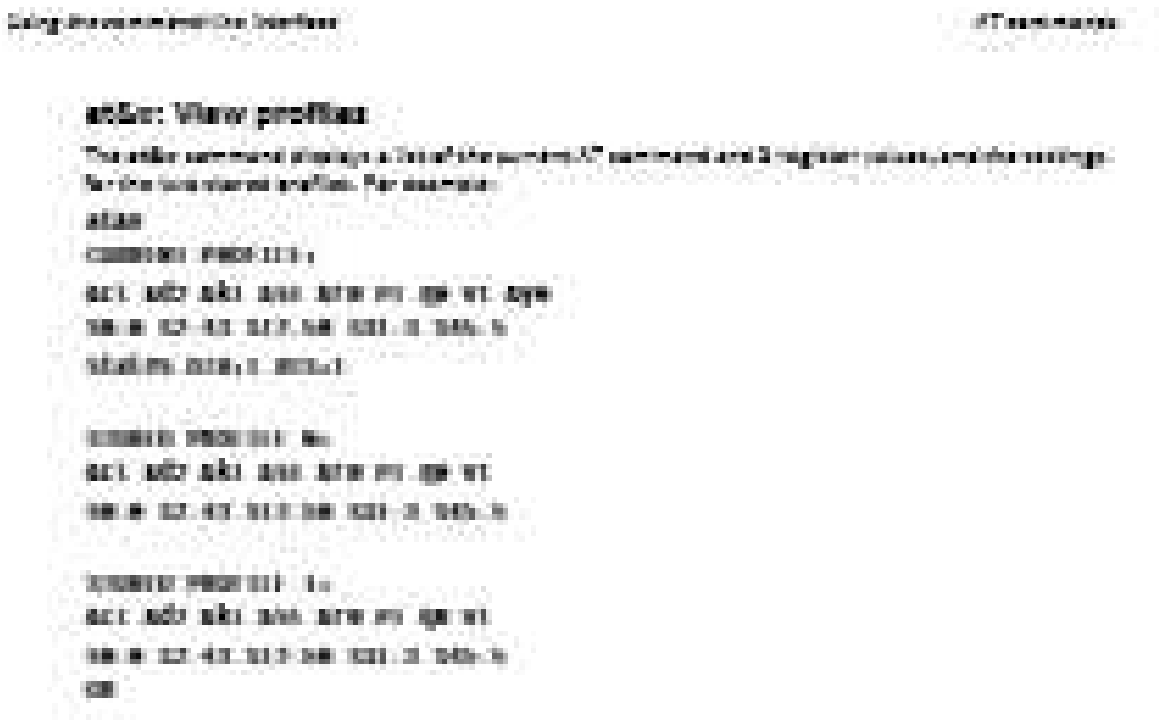
at&r: Control the CTS signal

[illegible]

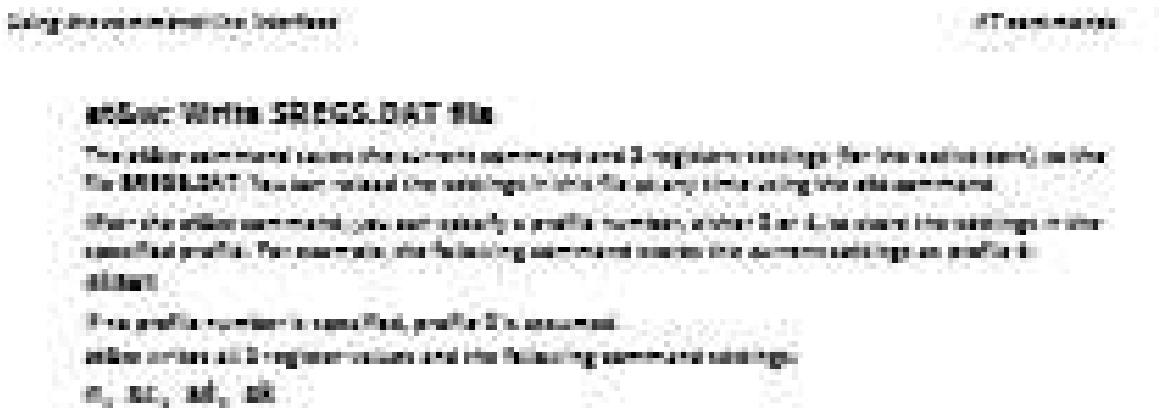
- [illegible]
- [illegible]
- [illegible]

[illegible]

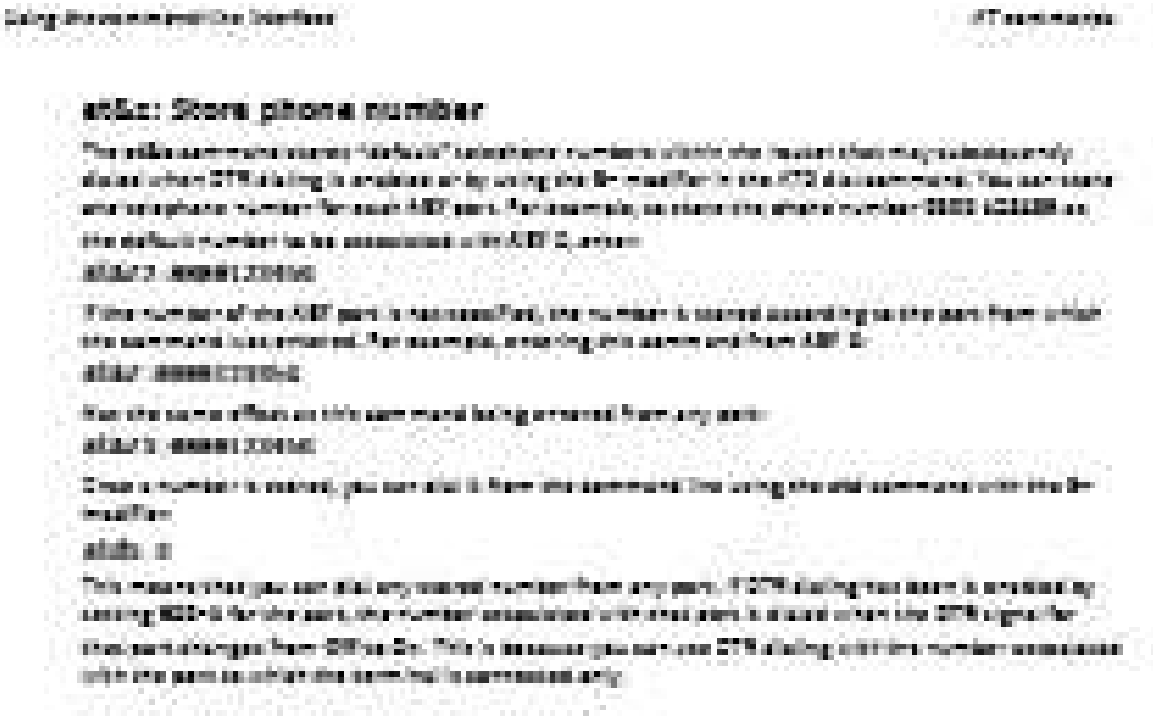
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ntSy: Select power-up profile



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at!gpsnmea command: Send GPS data to AST port

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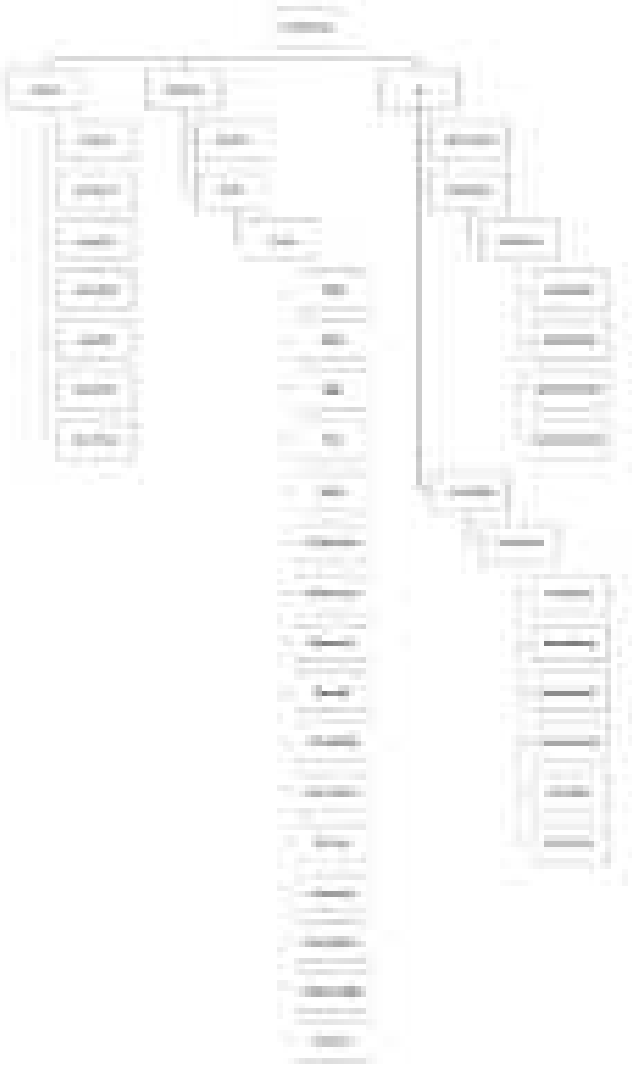
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ath port: Set the active port for boot commands

[redacted]

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sfcamib commands



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[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

S register definitions

S0		Rings	2	0-255
S1		Rings	n/a	n/a
S2		ASCII	43	0-255
S3		ASCII	13	0-255
S4		ASCII	10	0-255
S5		ASCII	8	0-255
S6		sec	50	0-255
S7		sec	2	0-255
S8		N/A	0	0,1,2
S9		N/A	6	0-0.8
S10		refer to full description	n/a	0-n/a
S11		N/A	5	0-1
S12		S-RAM registers	0 (0x0)	0-255

S0: V.25 bis answer enabled

Units: Rings
Default: 2
Range: 0-255

Used for V.25 bis operation. Enables or disables automatic answering of incoming V.25 bis calls. Auto answering is disabled when S0 is set to the default value of 0. Setting S0 to a nonzero value enables auto answering.

The value stored determines the number of rings that the modem will wait before answering. For example, the command ATS0=3 enables auto answering after two incoming rings have been detected.

When auto ring on RING result code is issued and the value stored in S1 is incremented. When the value in S1 equals the value in S0 the call is answered.

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[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]



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Configuring network interfaces

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Configure Ethernet interfaces

Web

Go to Configuration > Network > Interfaces > Ethernet.

The Configuration > Network > Interfaces > Ethernet page displays configuration pages for each of the available Ethernet interfaces on the router. Each page allows the user to configure parameters such as the IP address, mask, gateway, and others.

On routers with only one Ethernet port, there is only one Ethernet interface available to be treated as logical Ethernet ports. You can use these interfaces to assign more than one Ethernet IP address to a router.

On routers with more than one physical Ethernet port, the Ethernet interfaces refer to the different physical Ethernet ports. These routers can be configured for either PCIE mode or Port isolate mode.

In PCIE mode all the Ethernet ports are linked together and behave like an Ethernet hub or switch. This means that the router will respond to all its Ethernet IP addresses on all of its ports as the host switch behaves (no extra ports required).

In Port isolate mode, the router will only respond to its Ethernet 1 IP address on physical port LAN 1, to Ethernet 2 IP address on physical port LAN 2, etc. The router will not respond to its Ethernet 1 address on port LAN 2 unless routing has been configured appropriately.

When configured for PCIE mode it is recommended to make sure that one of the router's ports is connected to another hub or switch on the same physical network. Otherwise an Ethernet loop can occur. The default behavior is PCIE rather than Port isolate.

VLAN tagging is not available when the router is configured for Port isolate mode.

IPv6 addressing support on Ethernet interfaces

Transform routers support IPv6 addressing on Ethernet interfaces only and on a limited number of Ethernet interfaces. For more information, see Configure IPv6 addressing support.

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Configure basic Ethernet IP address parameters

Note To configure the Ethernet interface to support IPv6 addressing, see Configure IPv6 addressing support.

Web

1. Go to Configuration > Network > Interfaces > Ethernet. ETH is the Configuration > Network > Interfaces > Ethernet. ETH is the interface on which you want to configure IP address parameters. The interface is set to obtain an IP address by using a DHCP server. You can manually configure the IP addressing for this interface.



2. Configure basic Ethernet IP address settings.

Description

Enter a memorable name for this Ethernet interface, so you can easily identify it.

Obtain IP address automatically using DHCP

Enables the DHCP client on this interface. You can also configure the DHCP server settings for the Host, Gateway, DNS Server, and Secondary DNS Server.

Use the following settings

Enables manual configuration of the IP addressing parameters.

IP Address

Specifies the IP address of this Ethernet interface.

Mask

The subnet mask of the IP address on which the router is connected to this Ethernet port. Typically, this could be 255.255.255.0 for a Class C network.

Gateway

The IP address of a gateway on the router's LAN. IP packets whose destination IP addresses are not on the LAN to which the router is connected are forwarded to this gateway.

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Configure advanced Ethernet parameters

[illegible]

[illegible]

1. [illegible]
2. [illegible]

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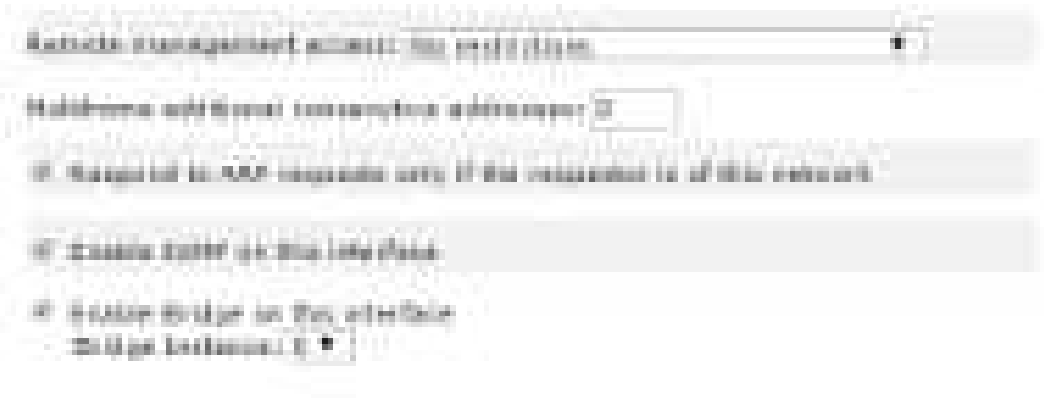
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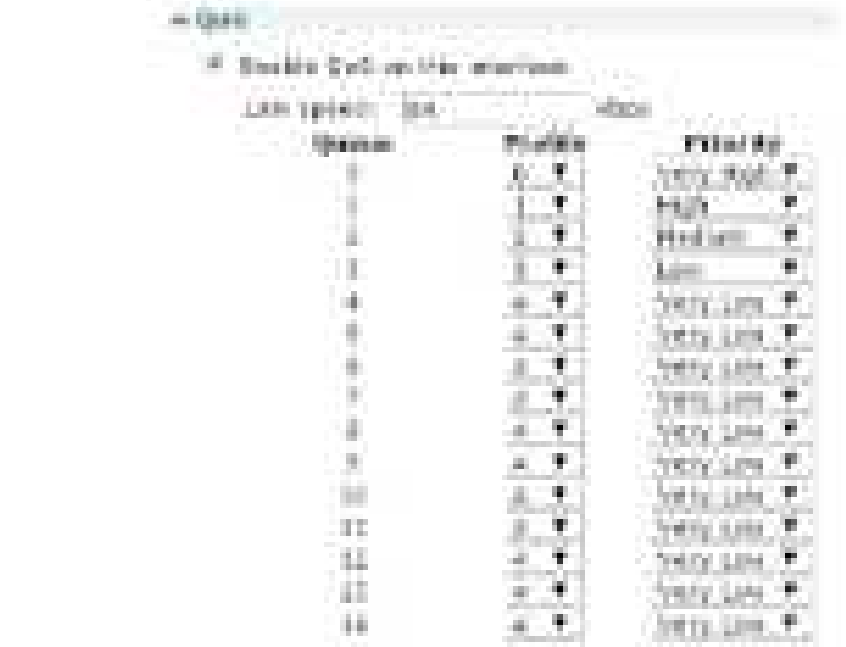
[illegible]				
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Configure Ethernet Quality of Service (QoS) parameters



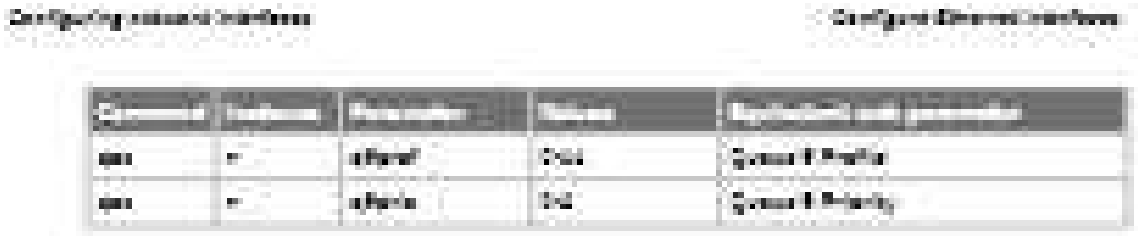


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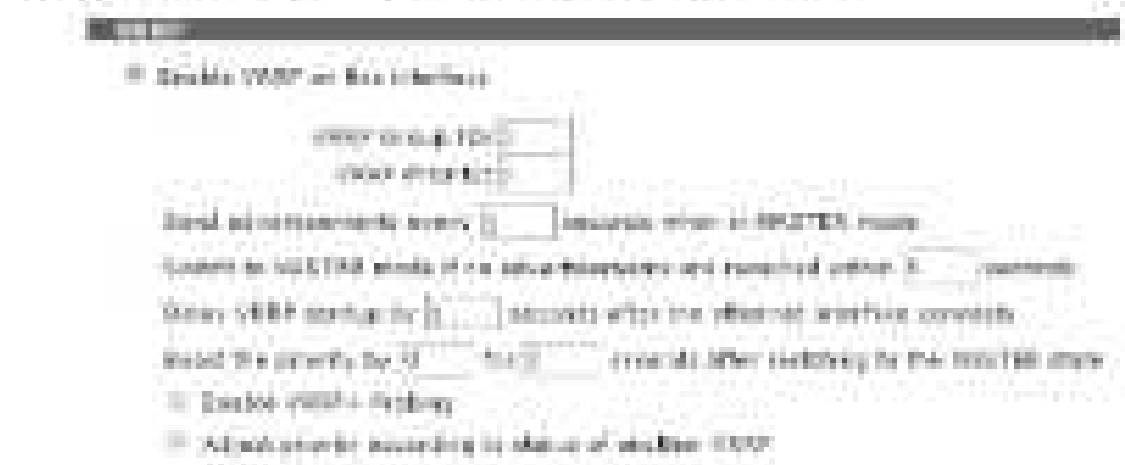
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Configure Ethernet Virtual Router Redundancy Protocol (VRRP)





VRRP Group ID

VRRP Priority

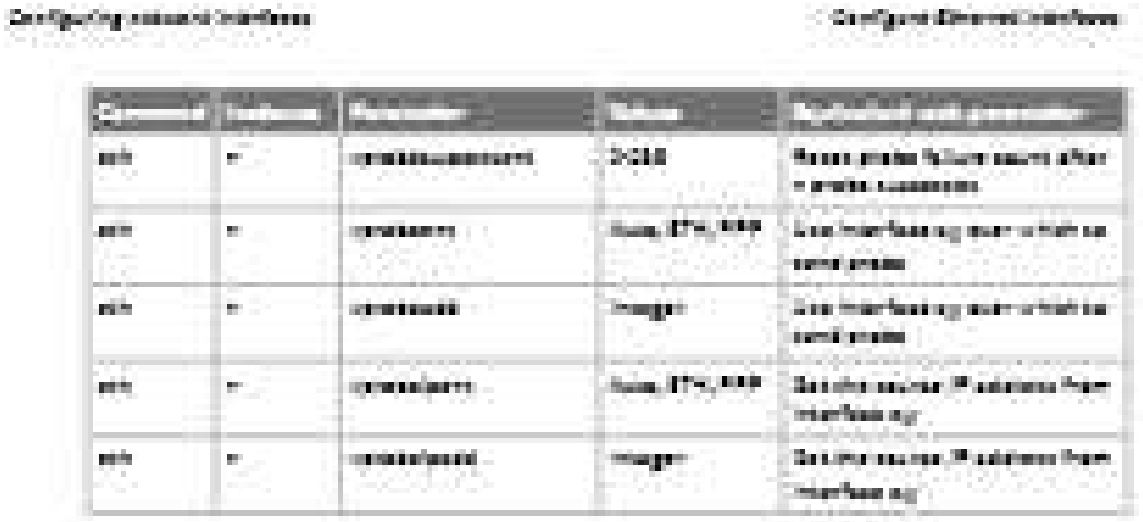
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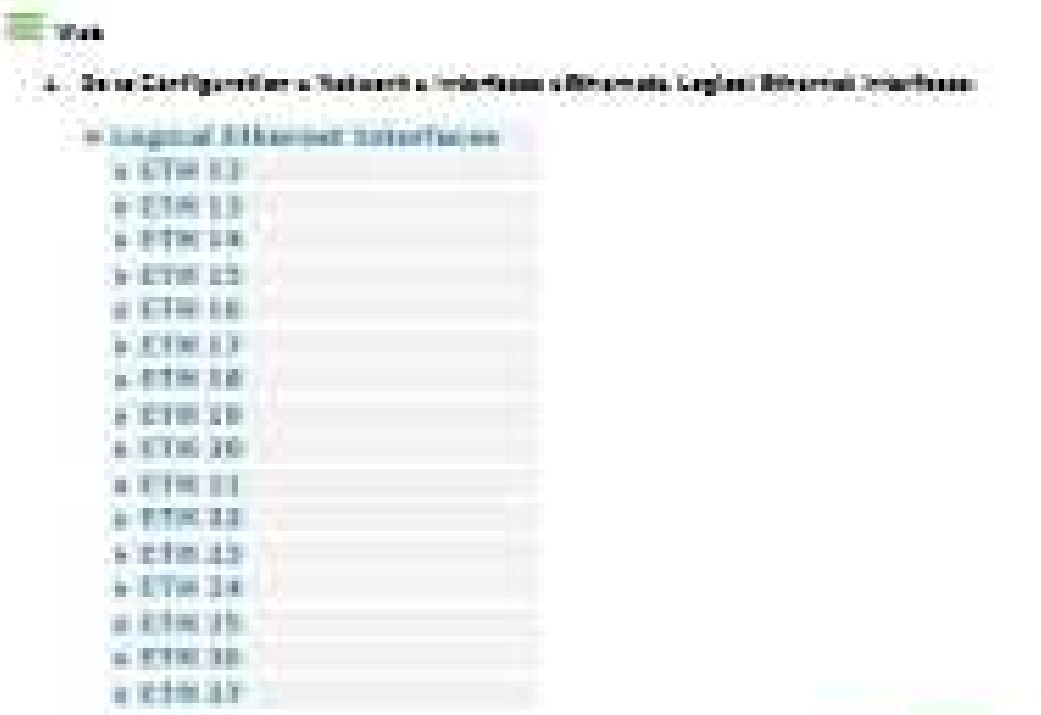


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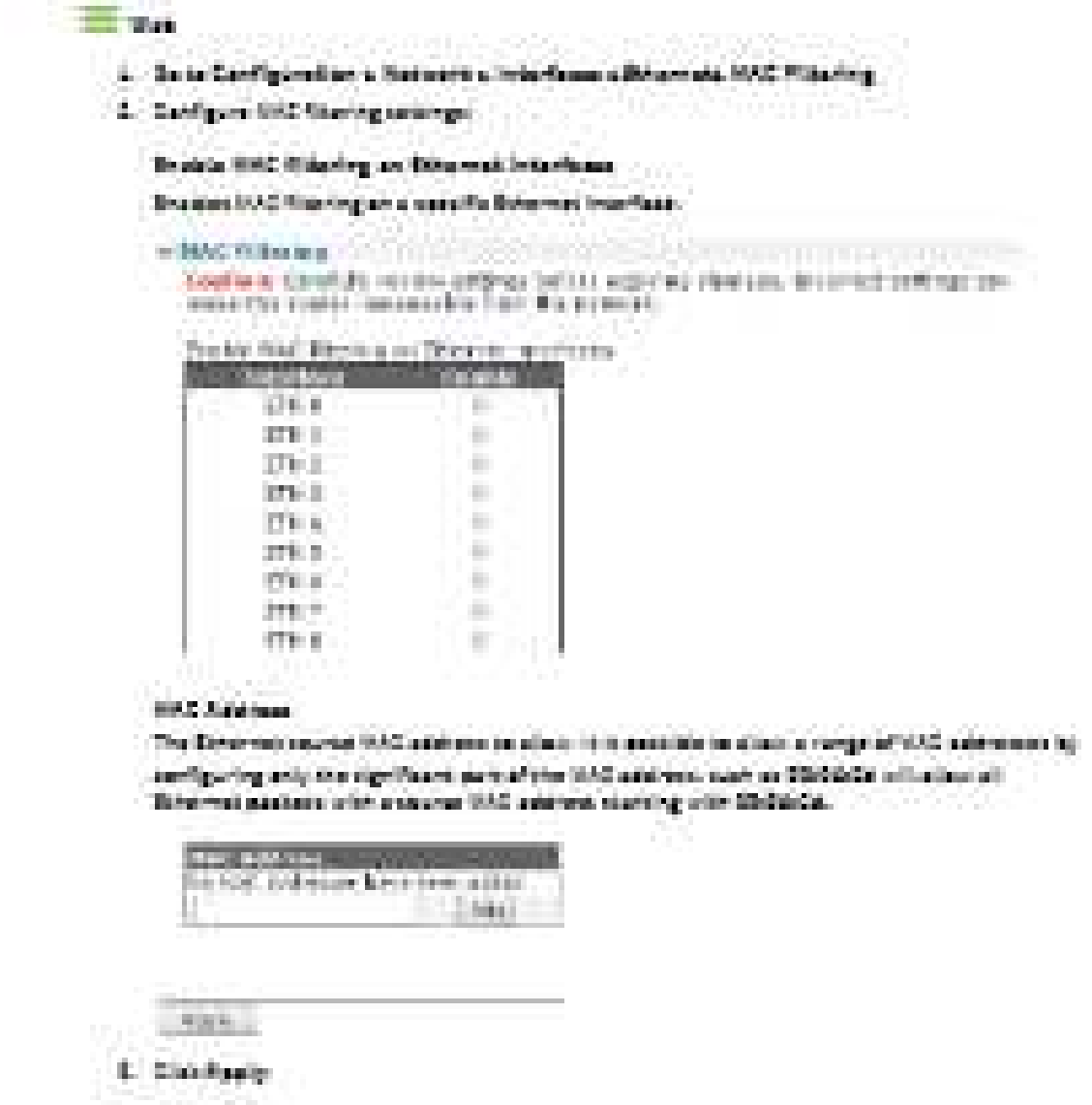
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Configure logical Ethernet interfaces



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Configure which Ethernet devices can send packets to the router (MAC filtering)



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Configure an Ethernet bridge between two networks (MAC bridging)

[illegible]

Web

1. [illegible]



2. [illegible]

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Configure Rapid Spanning Tree Protocol (RSTP)



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Disabled	[illegible]
Root	[illegible]
Designated	[illegible]
Alternate	[illegible]
Backup	[illegible]

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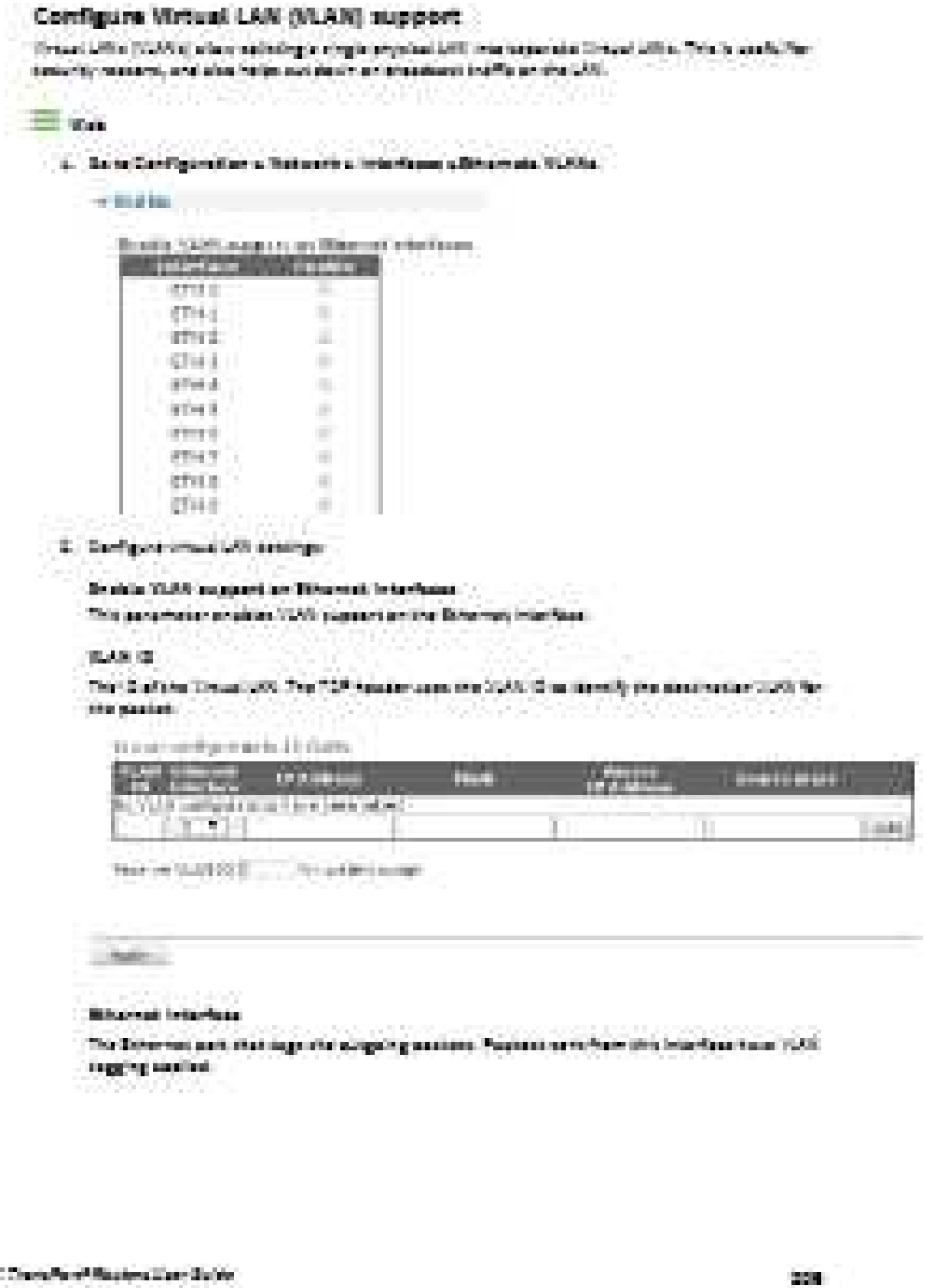
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Learning	[illegible]
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Looking	[illegible]

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Learning	[illegible]
Forwarding	[illegible]
Discarding	[illegible]

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Configure Virtual LAN (VLAN) support



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Configure Wi-Fi interfaces

Configure global Wi-Fi settings

Because of national restrictions on the channels available for use, the correct country should be selected from the drop-down list to restrict the channels that are legal to use in the region. If required, a specific channel can be selected to override the auto-selection. The Antenna setting is not available on some Business Class/Pro CR routers.

Web

1. Go to Configuration > Network > Interfaces > Wi-Fi > Global Wi-Fi Settings.



2. Configure global Wi-Fi settings:

   Country

   Selecting a country from the drop-down list restricts the channels that the router will use. See for more info on Banned channels.

   Network Mode

   Select your chosen mode of operation from the drop-down list. The available options vary by country and some operation modes may not be available on some models.

   Channel

   Selecting Auto allows the router to scan for a free channel within the range of legal channels for the selected country. It is possible to manually select a specific channel to use, but make sure the selected channel is legal for use in the country.

3. Click Apply.

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Configure advanced global Wi-Fi settings

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Configure a Wi-Fi node as a hotspot

Web

4. Select **Configuration** > **Network** > **Interfaces** > **Wi-Fi** > **Global Wi-Fi Settings** > **Wi-Fi Hotspot**.
5. Configure Wi-Fi hotspot settings.

Enable Wi-Fi Hotspot on

Enables or disables Wi-Fi hotspot support on a specific Wi-Fi node.

Network Name / Filename

Defines an SSID used for the hotspot. It can be presented as the client's network selection when they connect to the hotspot.

Max client association time in minutes

The amount of time that a Wi-Fi client can use the Wi-Fi hotspot before having to re-authenticate.

Require Wi-Fi client authentication

If enabled, specifies that Wi-Fi hotspot authentication is required for Wi-Fi clients. You can then select the RADIUS configuration to use.

Hotspot Sessions

It is possible to configure a number of valid sessions for which authentication is not required. These settings allow the administrator to expire these sessions in order to display them to the client when authenticating.

6. Click **Apply**.

Command line

wifi-node	n	hotspot	on, off	Enable Wi-Fi Hotspot on
wifi	n	hotspot_ssid	Filename	Specify network filename
wifi	n	hotspot_lifetime	Integer	Max client association time in minutes. The CLI value is entered in seconds only
wifi	n	hotspot_auth	on, off	Require Wi-Fi client authentication
wifi	n	hotspot_radius_config	String	Use RADIUS instance
hotspot	n	list	Parameters	Hotspot Sessions

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Configure Wi-Fi filtering

Web

Command line

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Configure a Wi-Fi mode

Web

1. Go to Configuration > Network > Interfaces > Wi-Fi > Wi-Fi Radio 1.
2. Configure the Wi-Fi radio settings.

Enable this Wi-Fi interface

Enables or disables the Wi-Fi interface.

Description

A descriptive name for the Wi-Fi interface to make it easier to identify.

SSID

When the Wi-Fi interface is configured to be an Access Point, this is the SSID that is advertised by the Wi-Fi beacons.

When the Wi-Fi interface is configured to be a Client, this is the SSID of the Access Point to which you wish to associate.

Mode

The Wi-Fi interface can run in various modes. The options are:

- Access Point
- Client

Rogue Detection (Scan for unauthorized Access Points)

This Wi-Fi interface is a member of Bridge instances and therefore bridged to the following interfaces. The options are:

- Access Point: When the Wi-Fi interface is configured to be an Access Point, to forward packets to and from the Wi-Fi interface, it must be bridged with an Ethernet interface using a Bridge instance.
- Client

Interfaces

Interfaces that are currently members of the selected Bridge instance. Note that multiple Wi-Fi interfaces can be members of the same Bridge instance.

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Perform a rogue scan



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Configure mobile (cellular) interfaces

Configuration parameters required from your mobile network

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Supported cellular modules in Digi TransPort products

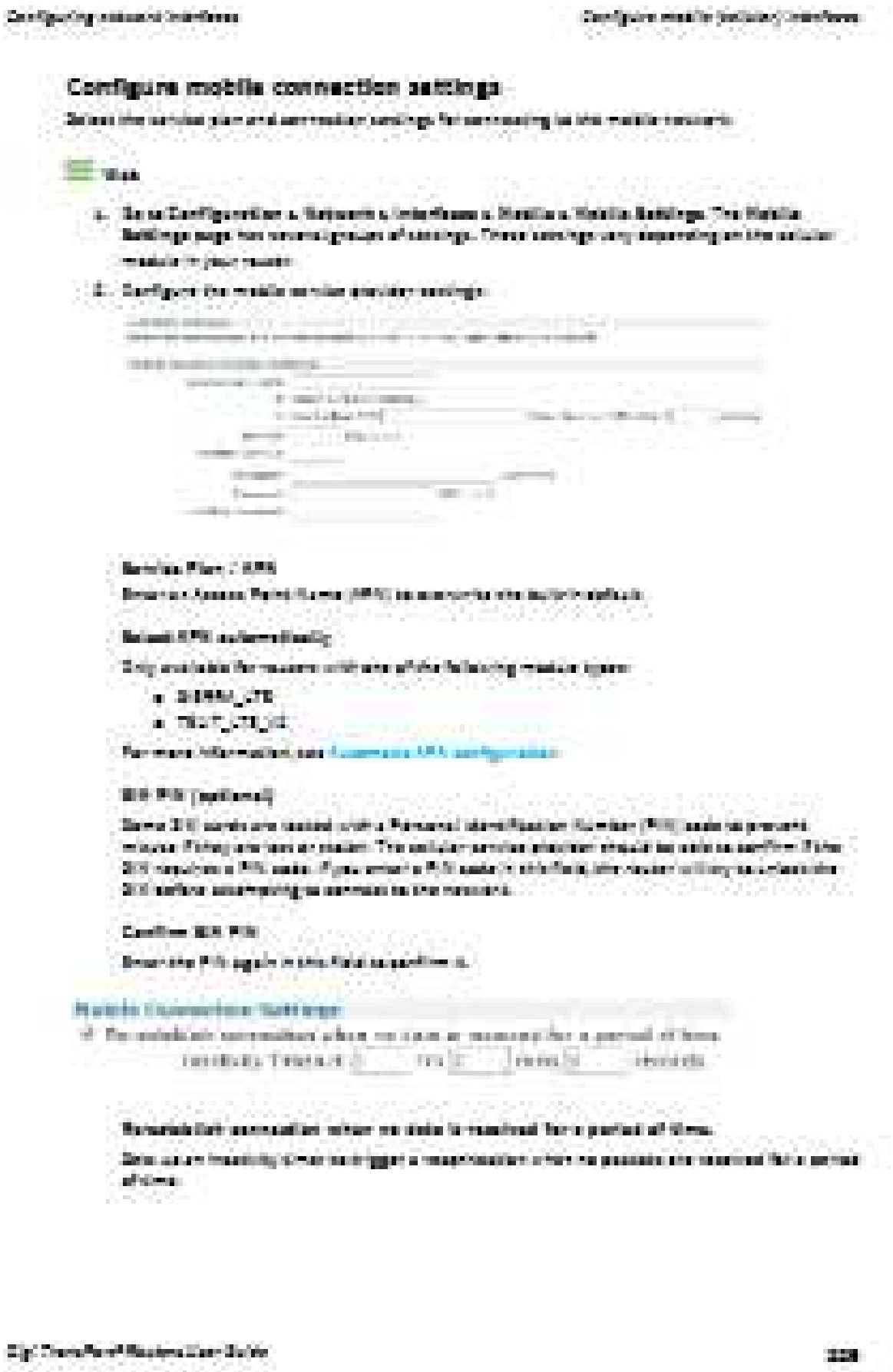
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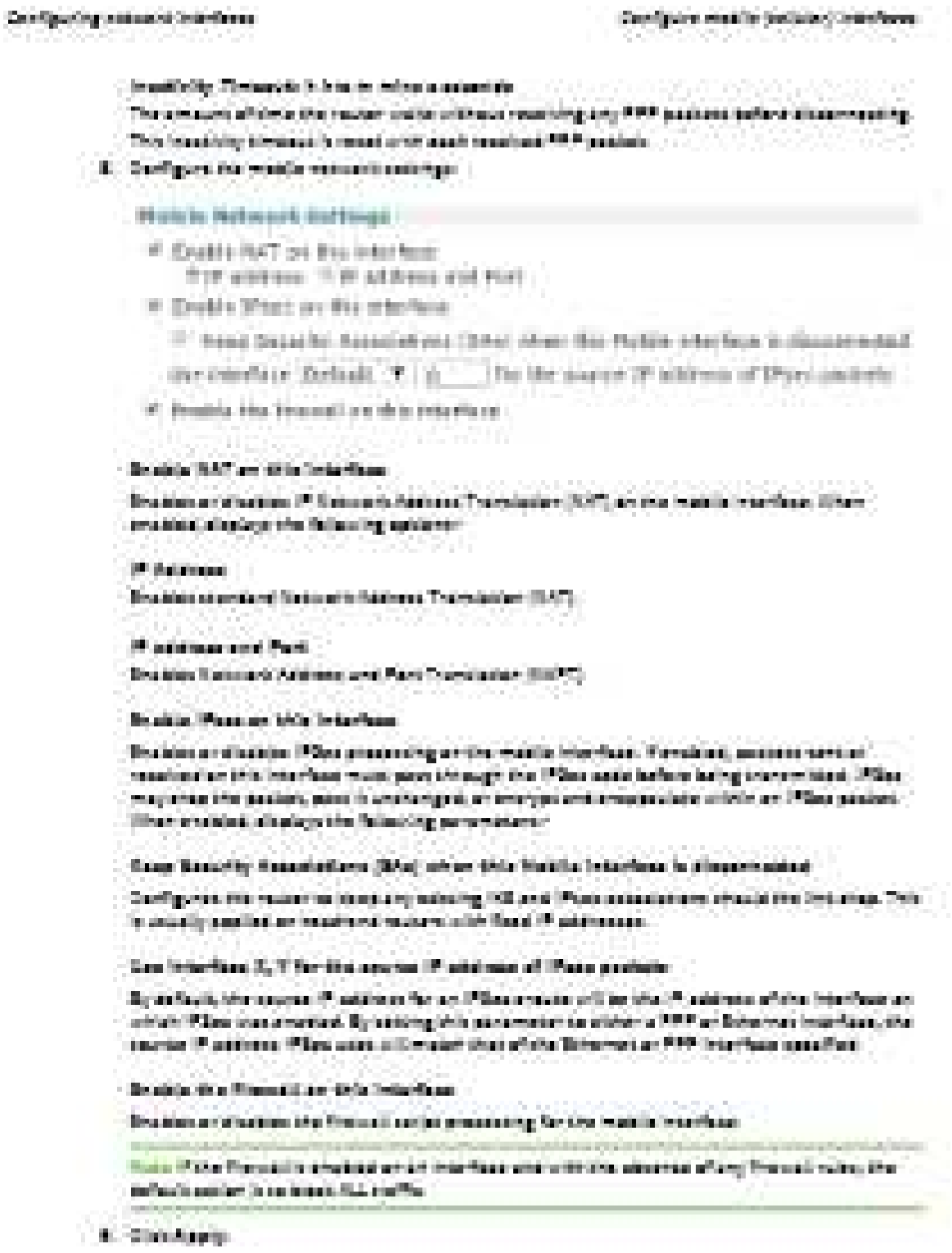
Configure SIMs



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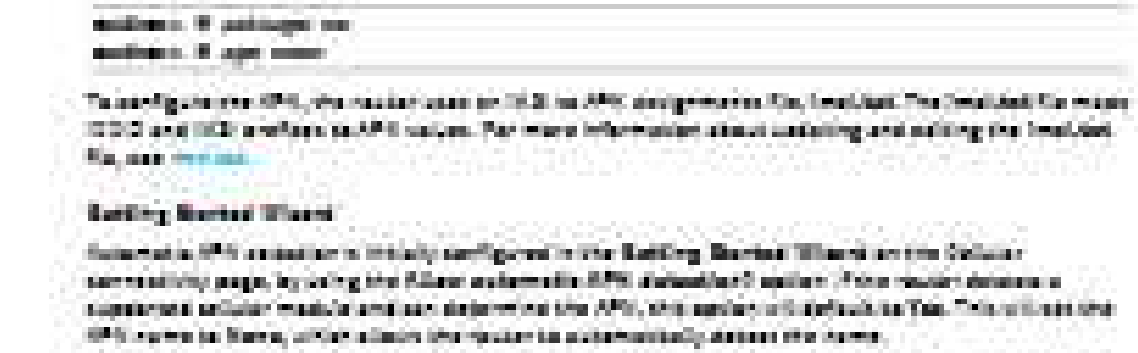
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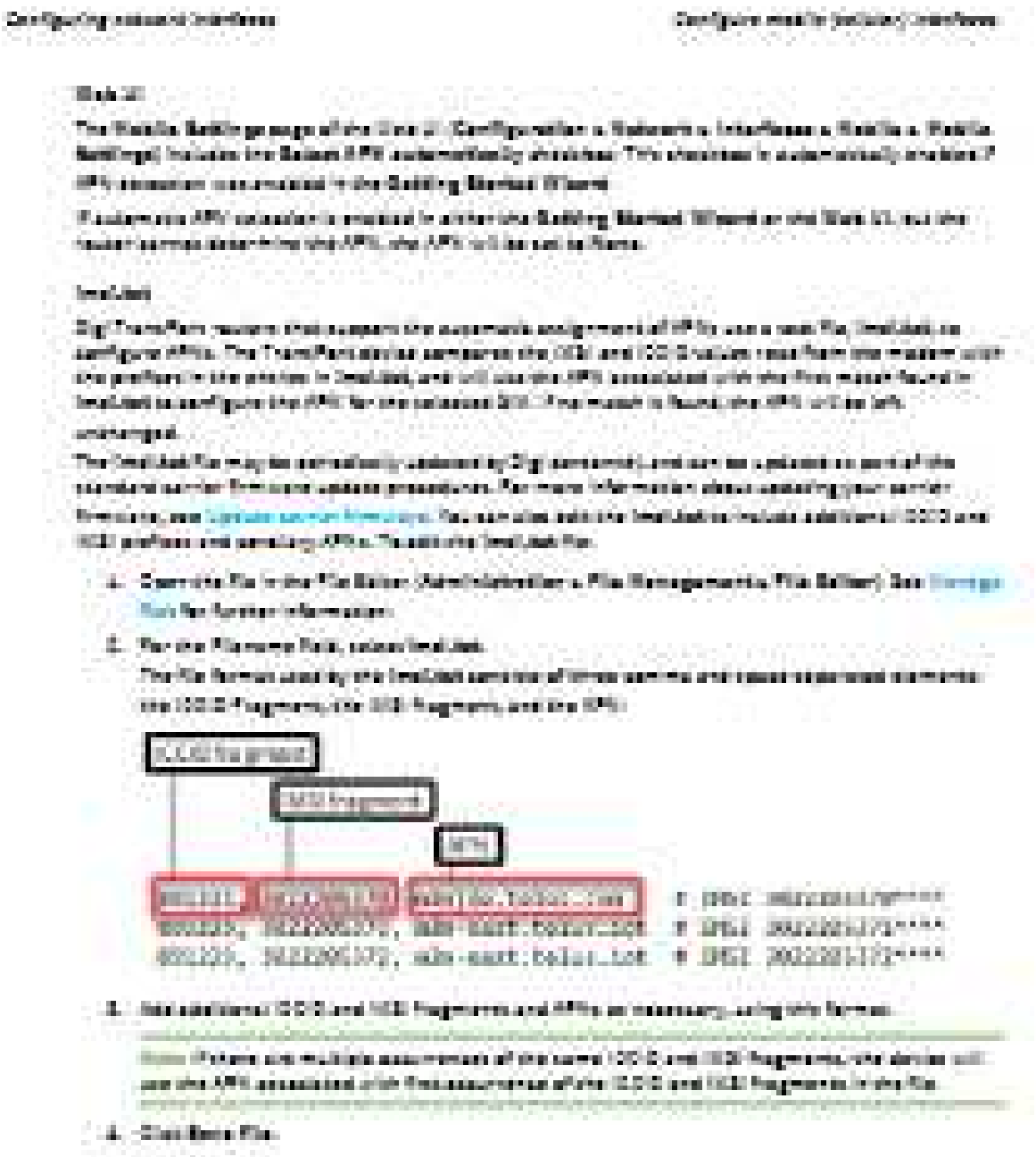
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Configure SIM failover

1.
2.
3.

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Configure advanced mobile parameters





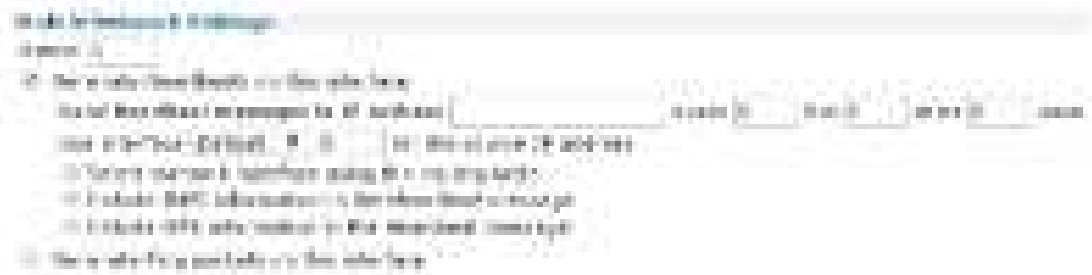


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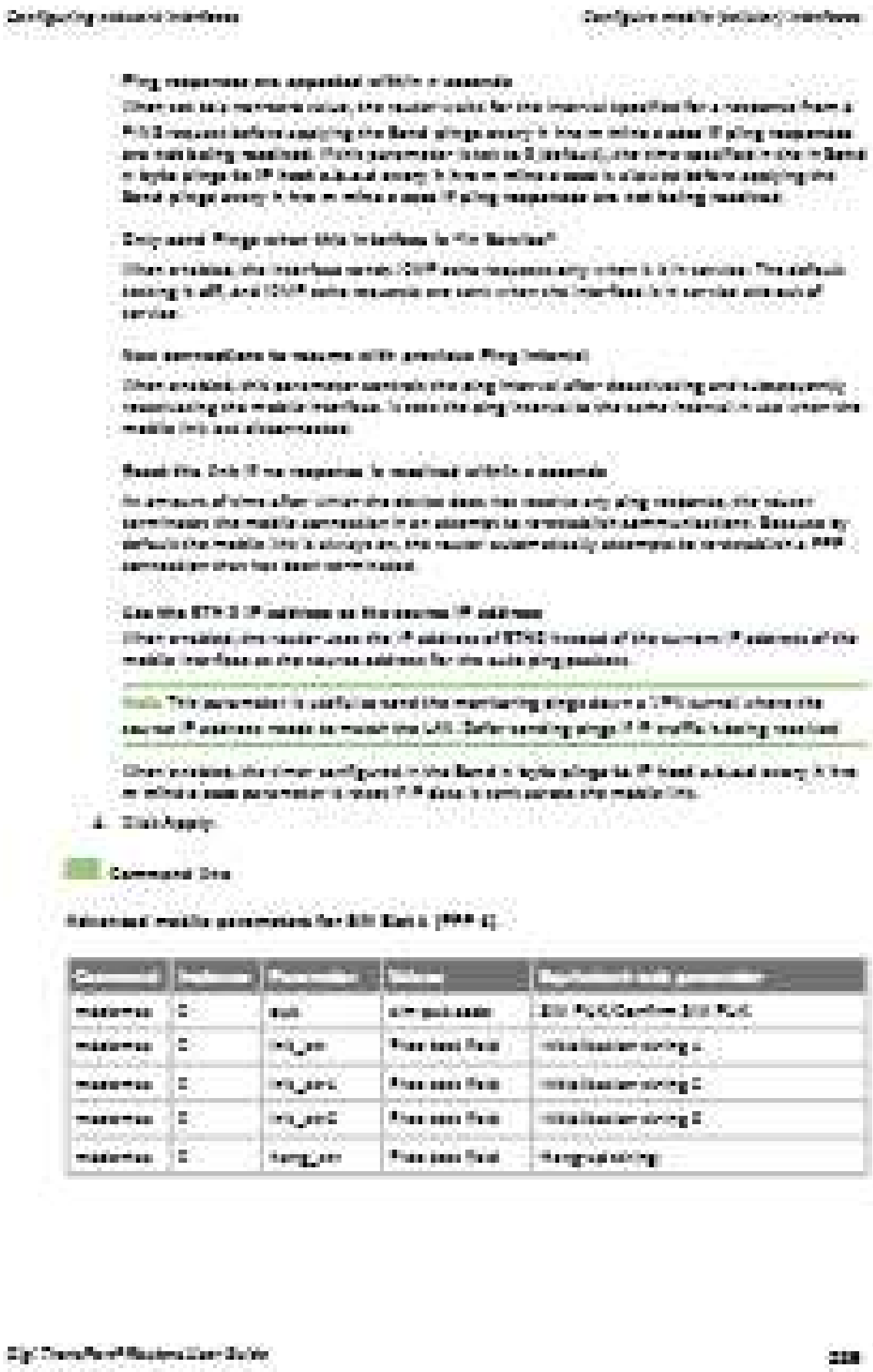
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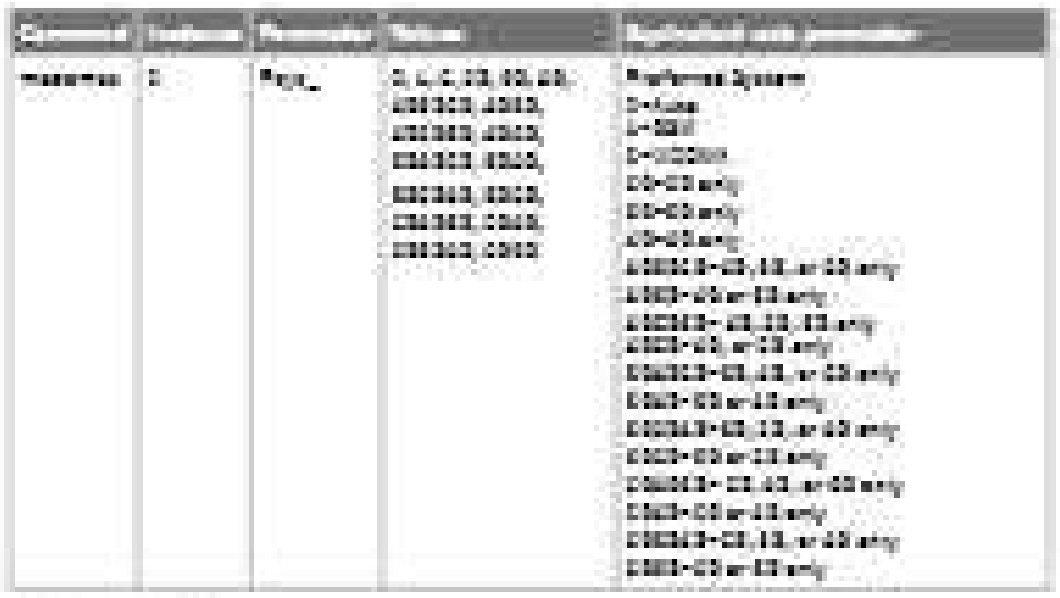
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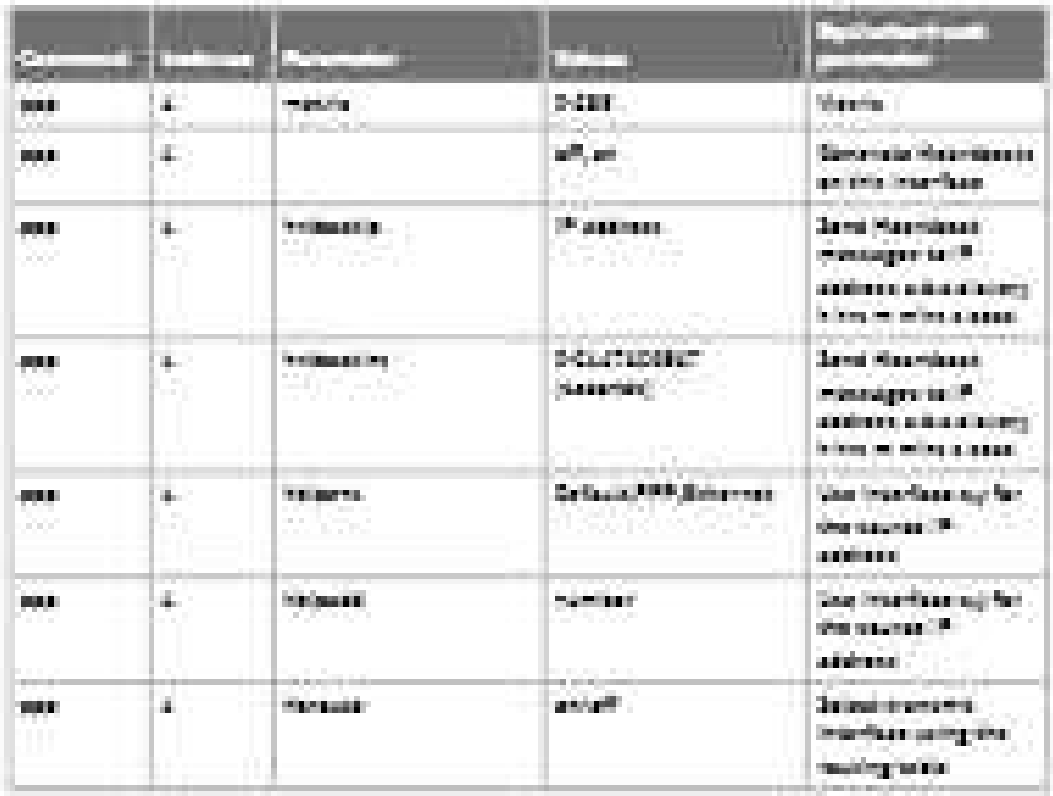
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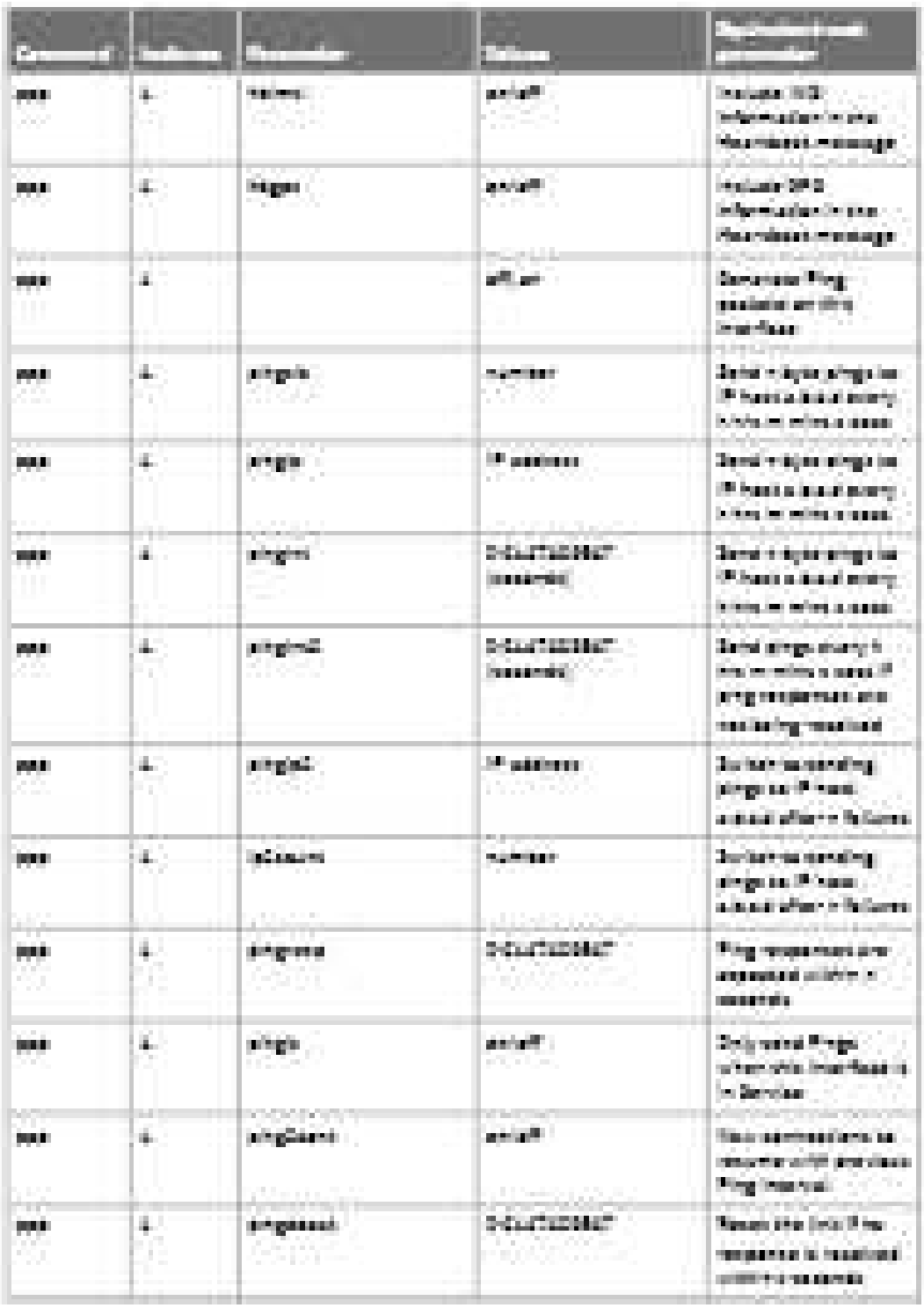


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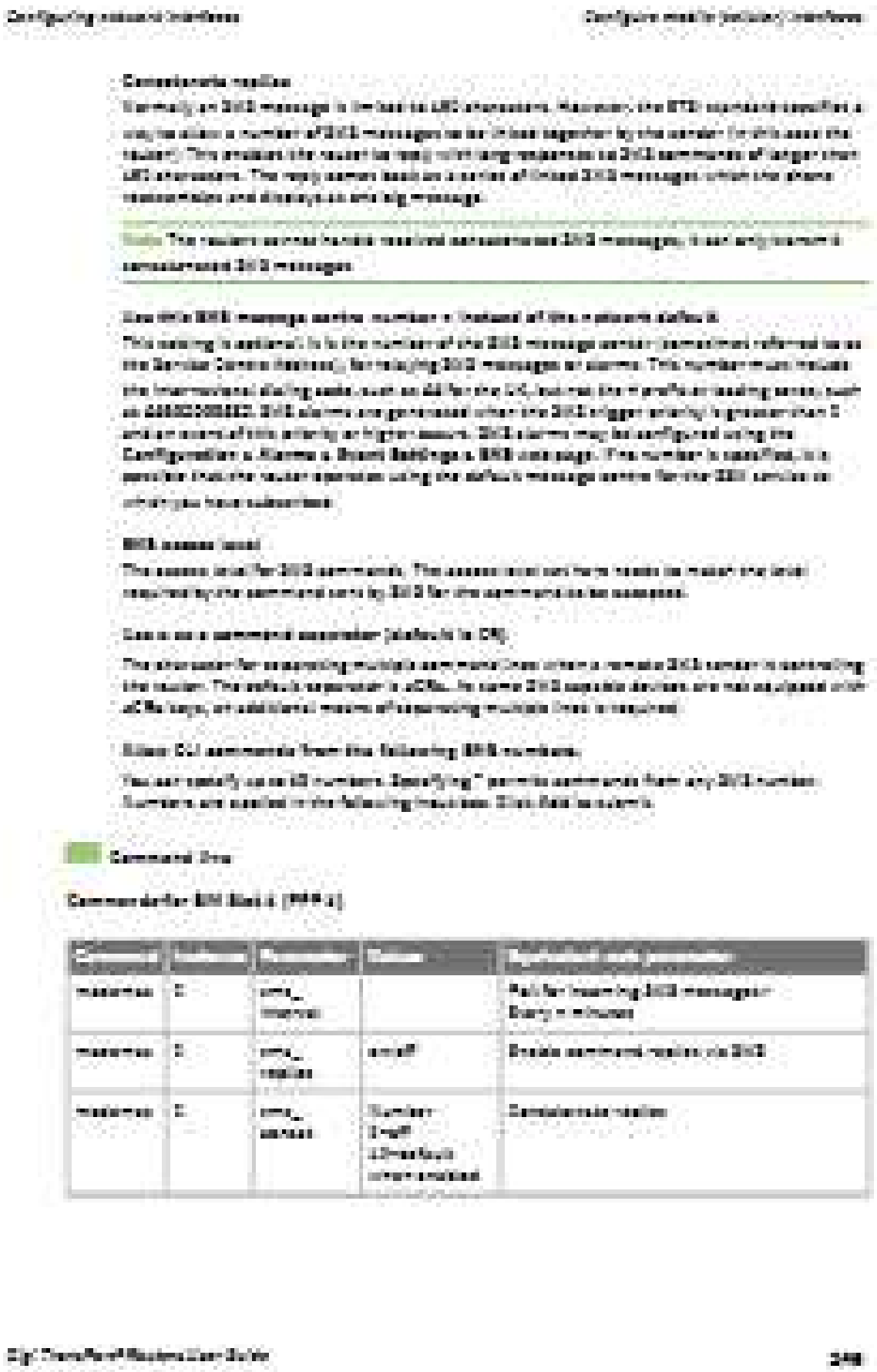


Configure sending and receiving SMS messages





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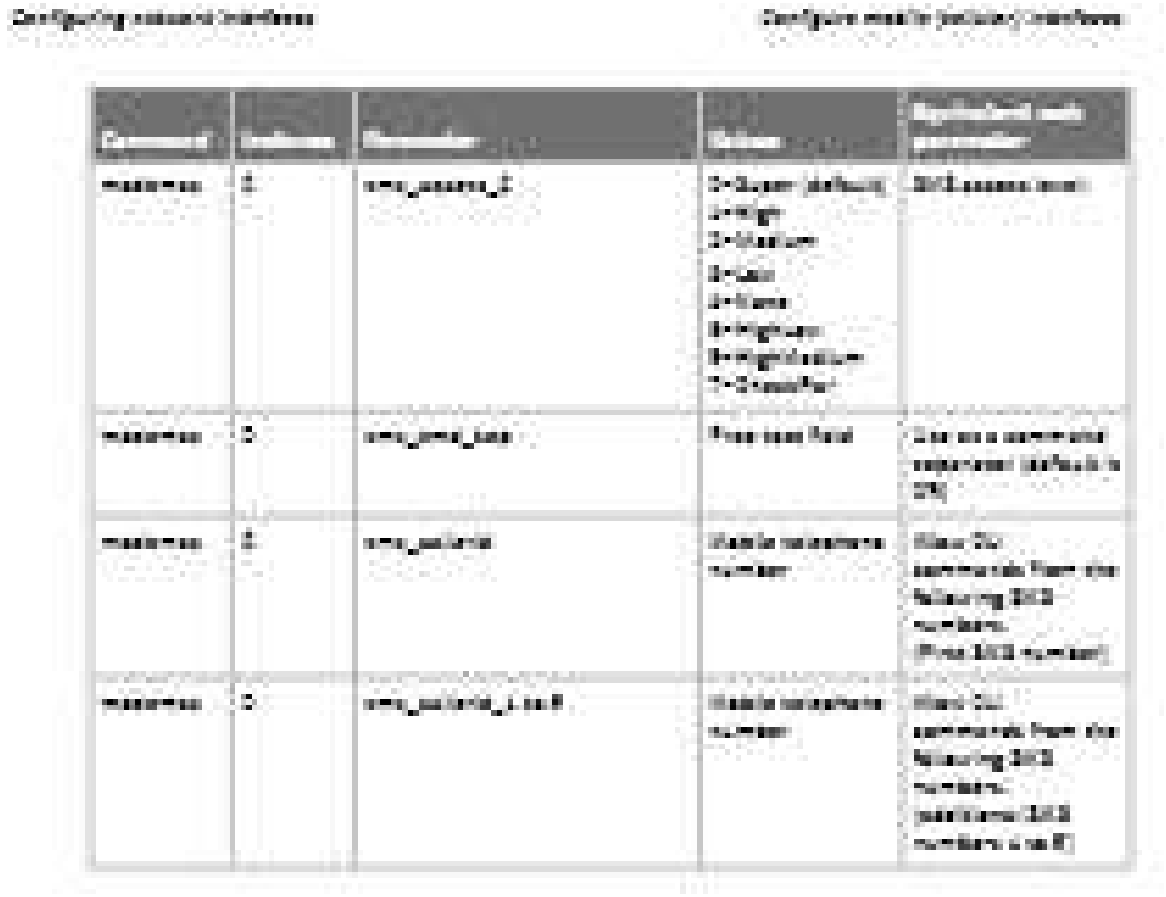


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Verify mobile connectivity and check mobile status

Web

Command line

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Automatic SIM detection

Disable automatic SIM detection

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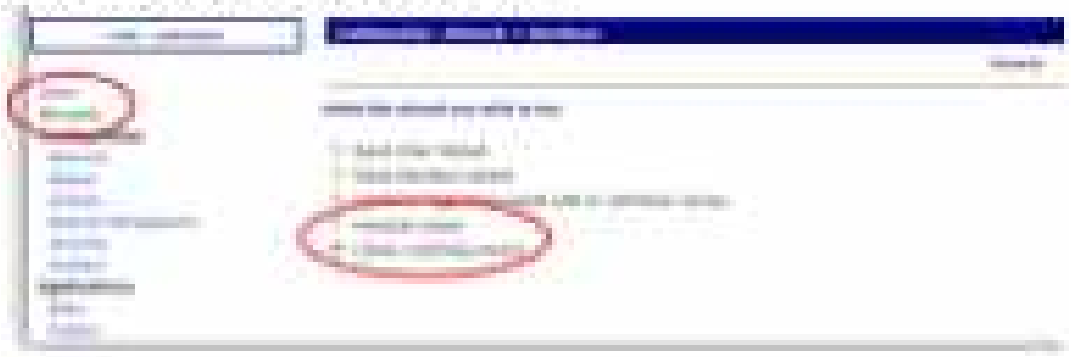
Determine the cellular module type and carrier firmware version



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Switch the cellular carrier firmware

Using the Carrier Switching Wizard



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Update carrier firmware

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[redacted]

About carrier firmware files

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- [redacted]
- [redacted]

Web

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   a. [redacted]
   b. [redacted]
   c. [redacted]
3. [redacted]
4. [redacted]

Command line

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Configure DSL interfaces

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Web

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Configure permanent virtual circuit (PVC) parameters

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Configure DSL network settings

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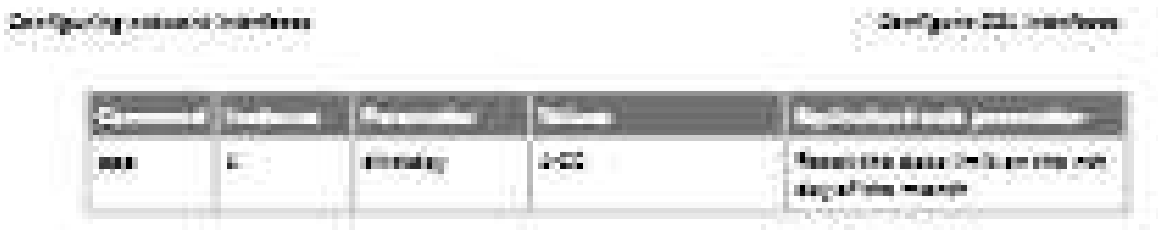
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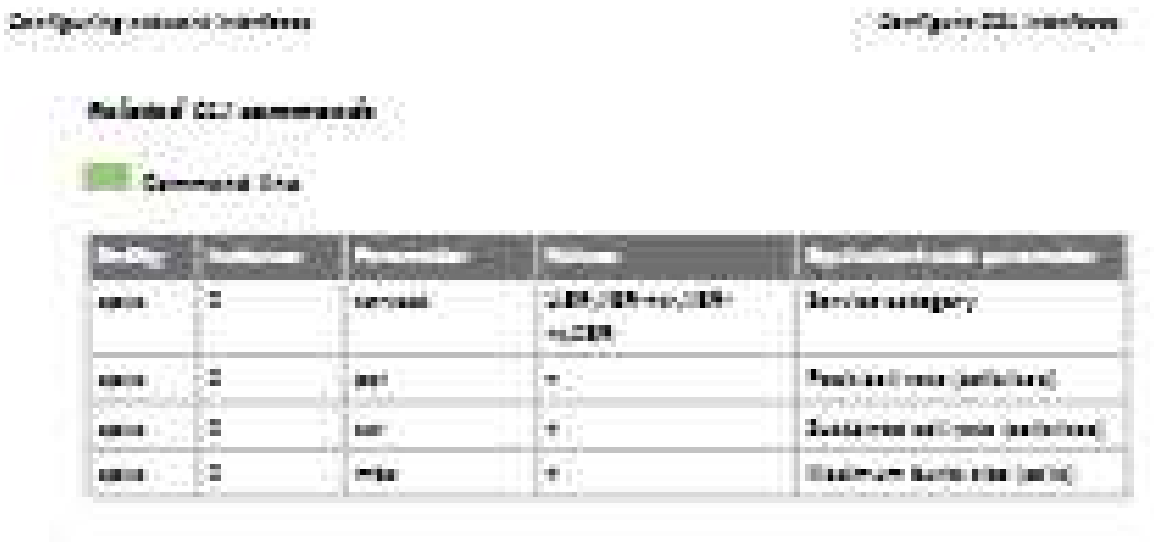
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Configure PVC traffic shaping parameters

CBR	PCR, cell delay variation tolerance
VBR-nrt	PCR, SCR, MBS
VBR-rt	PCR, SCR, MBS
UBR	PCR

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Configure advanced DSL parameters

Web

1. Go to Configuration > Network > Interfaces > DSL > Advanced.
2. Configure the advanced DSL parameters as needed.

Operational mode

The operation mode for the DSL line. The following options are available (default is Auto mode).

Option	Description
Automode	For Annex A models (such as VR75 / VR76) this option provides automatic detection between G.dmt, G.lite and ADSL (in the enter band). For Annex B models (such as VR77) this option provides automatic detection between G.dmt (in the enter band)
ADSL	Annex A and Annex M operation as defined in ADSL Physical Layer Specification
G.dmt	Automatic detection of ITU G.992.1 G.dmt mode
G.lite	Automatic detection of ITU G.992.2 G.lite mode
VDSL2	Operation using VDSL2
VDSL2+	Operation using VDSL2+

Load DSL firmware from flash file 'dsphase.bin' [if present]

Enables use of alternative VDSL driver firmware and should only be enabled on the advice of the technical support team. This option also requires that an additional file be loaded onto the router.

Enable watchdog

This setting should only be enabled on the advice of Digi Technical Support.

Manage link PVC using ATM OAM cells

Using Alarm Indication Signal (AIS) cells downstream and Remote defect Indication (RDI) cells upstream, the router can detect faults between the connecting points of the PVCs and suspend transfer of ATM cells until the fault condition is cleared.

3. Click Apply.

Command line

Command	Parameter	Description	Values	Default value / Usage notes
adsl	-t	user_mode	Auto/ADSL/G.dmt/G.lite/VDSL2/VDSL2+	Operational mode

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Configure Generic Routing Encapsulation (GRE) interfaces

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Configure GRE tunnel parameters



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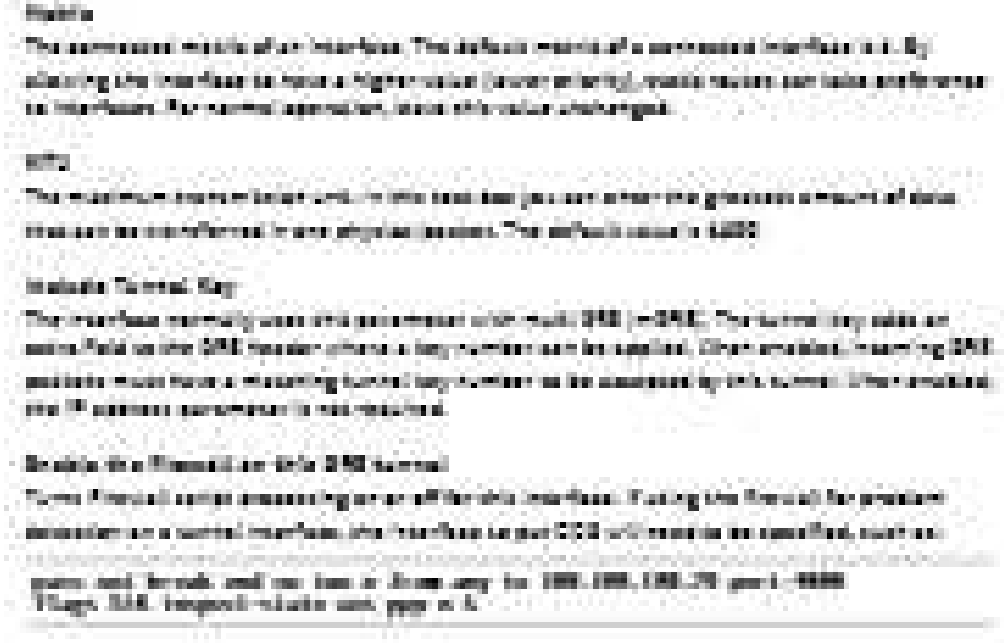
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Configure advanced GRE parameters





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Configure ISDN interfaces

- ISDN Answering
- ISDN Dialling
- LAPB

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Configure the ISDN interface to receive incoming calls

[redacted]

Protocol priorities

[redacted]

Async

[redacted]

L2TP

[redacted]

PPP

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Multiple Subscriber Numbers

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Configure ISDN dialing parameters

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Configure advanced ISDN parameters

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Configure ISDN Link Access Protocol D (LAPD) parameters

Link Access Protocol D (LAPD) is the protocol for ISDN D-channel signaling and call setup. You can use LAPD Bond LAPB is an interface for SNA IP traffic, such as X.25 over D-channel. LAPD is normally required for ISDN connections.

Note

1. Select Configuration > Network > Interfaces > ISDN > LAPD. The ISDN LAPD parameters page configures the ISDN LAPD interfaces.
2. Configure LAPD interface parameters.

Enable LAPD

Disabling this parameter disables the LAPD instance. This may be necessary if you have an installation where two or more routers are connected to the same ISDN S bus. In this case, only one of the routers may be configured for Permanent TEI, SAPI 16. On each of the other routers you must disable any LAPD instance for which the TEI is set to 0, in order to prevent it from responding to SABME traffic on that TEI which is actually destined for another router.

Other instances that should be disabled require the following configuration parameters.

Mode

When the SYNC/DCE mode parameter is set to SYN, the router behaves as a SYN. This is the default value and should not be changed for normal operation connecting ISDN networks. If your application involves using two routers back-to-back, one of the routers should have the SYN mode value set to DCE.

N200 Counter

The standard LAPB/LAPD retry counter. The default value is 3 and it should not normally be necessary to change this.

K Frame reject

The standard LAPB/LAPD Receiver Ready timer. The default value is 40,000ms (40 seconds) and it should not normally be necessary to change this.

T1 Timer in msecs

The standard LAPB/LAPD timer. The default value is 4000 milliseconds (4 seconds) and it should not normally be necessary to change this.

T203 Timer in msecs

The standard LAPB/LAPD parameter (timer) in milliseconds. The default value is 4000 milliseconds (4 seconds) and it should not normally be necessary to change this.

TEI

Each ISDN terminal device connected to your ISDN basic rate access must be assigned a unique Terminal Endpoint Identifier (TEI). In most cases, this is negotiated automatically. In some cases however, it may be necessary to assign a fixed TEI.

When TEI is set to 255, the TEI is negotiated with the ISDN network. To use a fixed TEI, set the TEI parameter to the appropriate value as specified by your service provider.

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Configure ISDN to answer V.120 calls

V.120 is a protocol designed to provide high-speed synchronous communication over ISDN. It provides rate adaptation and can optionally provide error control. Both the calling and called routers must be configured to use V.120 before data can be transferred. Similarly, if one router is configured to use the error control facility, the other must be configured in the same way.

Before you begin

Before using V.120 you must first ensure that the correct available V.120 licenses on the required ISDN ports.

Web

1. Go to Configuration > Network > Interfaces > Serial > Protocol Settings and for one of the V.120 licensed serial ISDN ports. See Configure protocol settings for more information about these settings.
2. Select the appropriate method of flow control for the ISDN port. Go to Configuration > Network > Interfaces > Serial > Serial Port >

Command line

1. Use the following command. For example:

```
Serial eth0 0 ppp 0
```

2. Use the ATS0 command to configure how calls for the ISDN port. Configure other ISDN port options such as command echo, result code format, etc. as required.

Initiating a V.120 call

Command line

Once the basic configuration is complete, initiate V.120 calls using the appropriate ATD command. For example:

```
atd0123456789
```

A successful connection is indicated by a CONNECT result code being issued on the ASY port, and the router will enter the online mode. In this mode, all data from the terminal connected to the local ASY port is passed transparently through the router across the ISDN network to the remote system. Similarly, data from the remote system is passed directly to the terminal connected to the local ASY port.

For V.120 calls the router will issue the NO ANSWER or NO CARRIER result code to the ASY port and remain in command mode.

You can use the ATD command to make a call to an ISDN subaddress by following the telephone number with the letter I and the required subaddress value. For example:

```
atd0123456789i001
```

In this case, the remote system only answers the call if it was configured to accept incoming calls on the specified subaddress.

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Configure PSTN interfaces

These settings apply to ConnectPort routers fitted with an external internal PSTN (V.92) card.

Web

1. Go to Configuration > Network > Interfaces > PSTN.
2. When the router is first powered up, this page shows a message indicating that the V.92/56K card does not have a PPP instance associated with it. Follow the link on the page and select an unassigned PPP interface for the V.92/56K.
3. Refresh your browser and go to Configuration > Network > Interfaces > PSTN. The page should show the following parameters, along with a message at the top of the page indicating the selected PPP instance. Configure these parameters as needed:

This PSTN interface is using PPP n

Shows PPP instance has been assigned to this interface.

Description

A memorable name for the PSTN interface. This may be useful when referring to the interface, rather than having to remember the name and the function of the interface.

Dial out using number

The telephone number to make an outgoing connection to a modem.

Prefix to the dial out number

The dialing prefix to use, if required. This may be necessary when using a PABX.

Username

The username to use when using the PPP instance to connect to the remote peer. This is normally provided by an ISP for use with a dial-in internet access service.

Password

The password to use for authenticating the remote peer, along with the above username.

Confirm password

Type the password into this box to ensure the router is configured with the password you entered correctly in both cases.

Allow the remote device to assign a local IP address to this router

When selected, the remote user assigns this PPP interface an IP address.

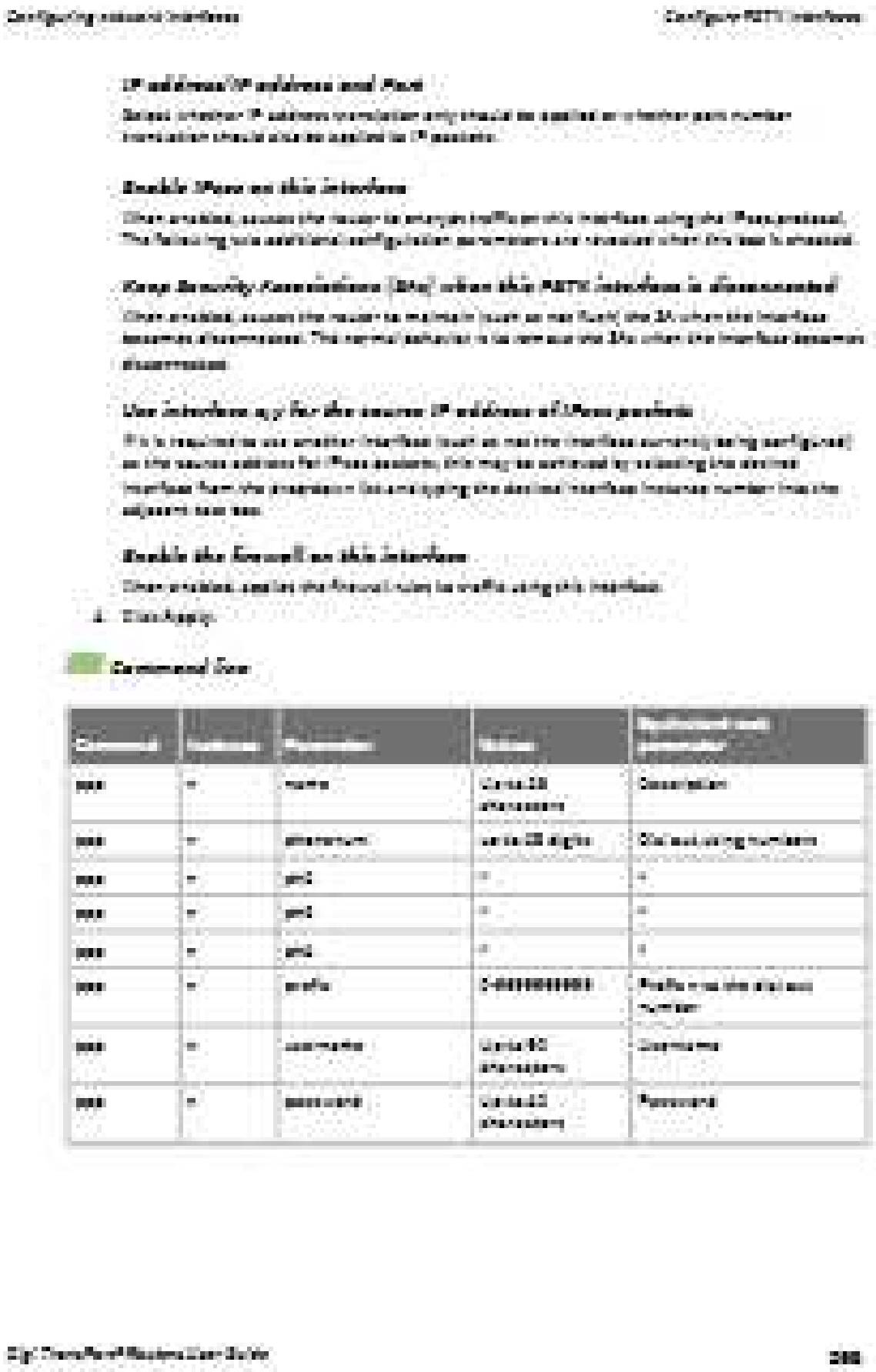
Try to negotiate a fixed or this local IP address for this router

It is useful, essential to have a predefined IP address for the interface, so select this option and enter the desired IP address into the box below the right. This field is optional.

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Configure advanced PSTN parameters

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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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Configure DialServ interfaces

Web

1. Go to Configuration > Network > Interfaces > DialServ.
2. Configure DialServ parameters.

Use PPP Protocol Switch

Wake time for RING Cmd

RING frequency in Hz

Initialization string 1

Initialization string 2

3. Click Apply.

Configure DialServ network settings

[illegible]

1. [illegible]
2. [illegible]

[illegible]

[illegible]

[

[illegible]

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Configure advanced DialServ parameters

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Configure serial interfaces

[illegible]

Web

1. Go to Configuration > Network > Interfaces > Serial.
2. Click the required serial interface displayed below the Serial list. Click one of the interfaces to configure basic serial configuration.

[illegible]



Enable this serial interface

[illegible]

Description

[illegible]

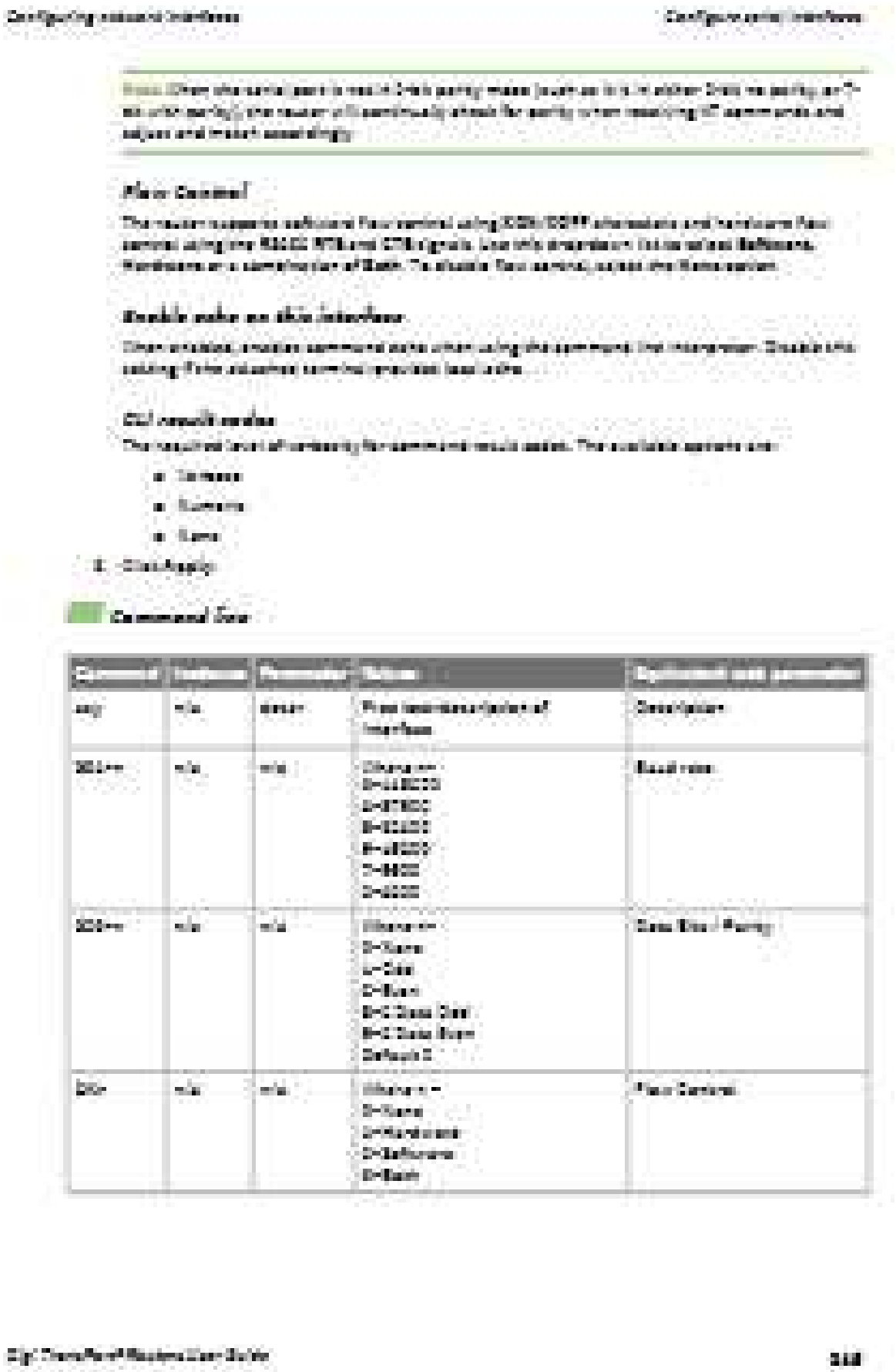
Baud Rate

[illegible]

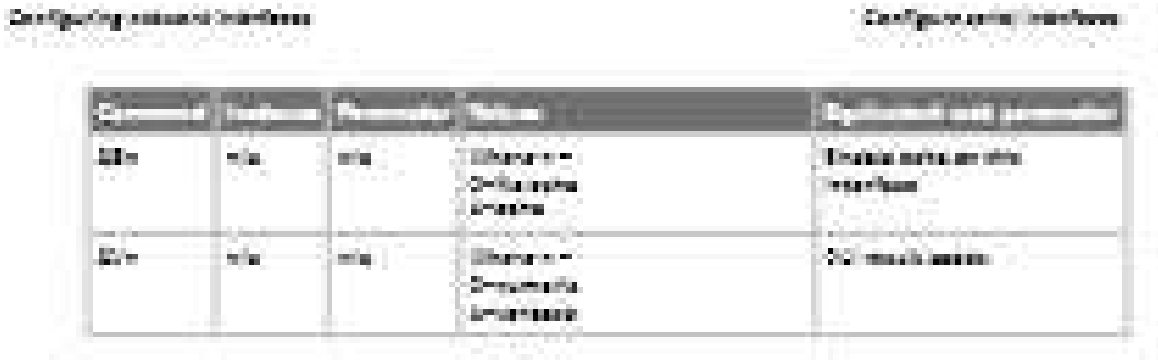
Data Bits / Parity

[illegible]

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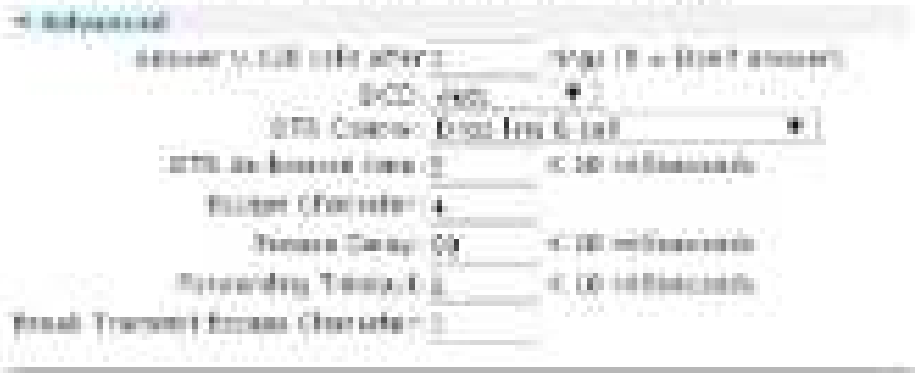


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Configure advanced serial port parameters

[illegible]

1. Go to Configuration > Network > Serial > Serial Port > Advanced.



2. Configure advanced serial port parameters as needed.

Answer VLAN calls after n rings (1 – 9 or N answer)

Determines the answering of incoming VLAN calls. If set to N, VLAN answering is disabled, otherwise VLAN answering is enabled and the interface answers the number of rings specified before answering the call. For this case, [illegible] accessing the value of the S0 register for the associated connection.

DCD

Determines how the Data Carrier Detect (DCD) signal is controlled. The available options are:

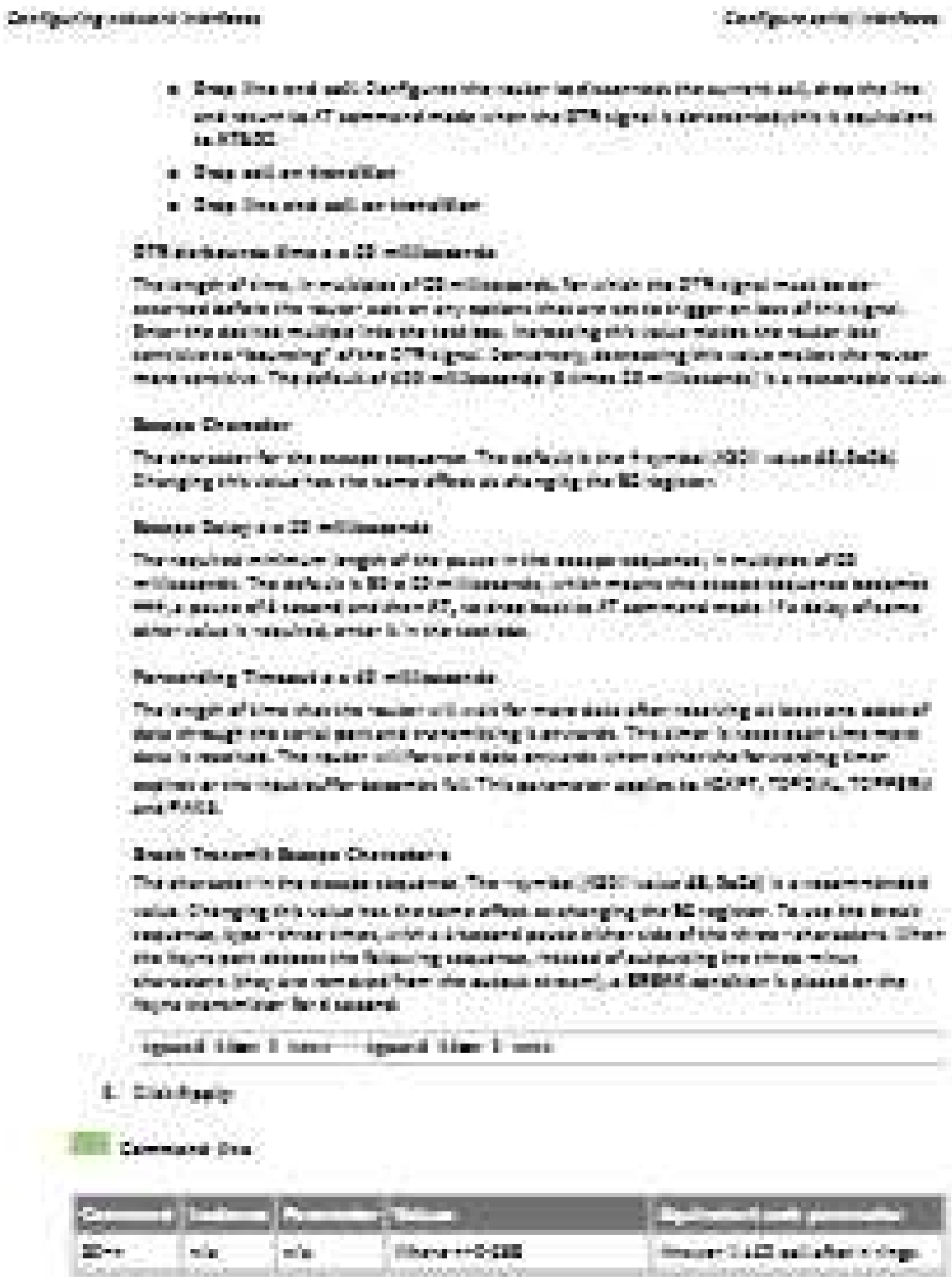
- Auto: Configures the router so that it will only assert the DCD line when an L2TP connection has been established. This is equivalent to AT&C1.
- On: Configures the router such that the DCD line is always asserted when the router is powered up. This is equivalent to AT&C0.
- Off: Configures the router such that the DCD line is normally asserted but is de-asserted for the time period specified by the S62 register after a call is disconnected. This is equivalent to AT&C2.
- Rules: Use

DTR Control

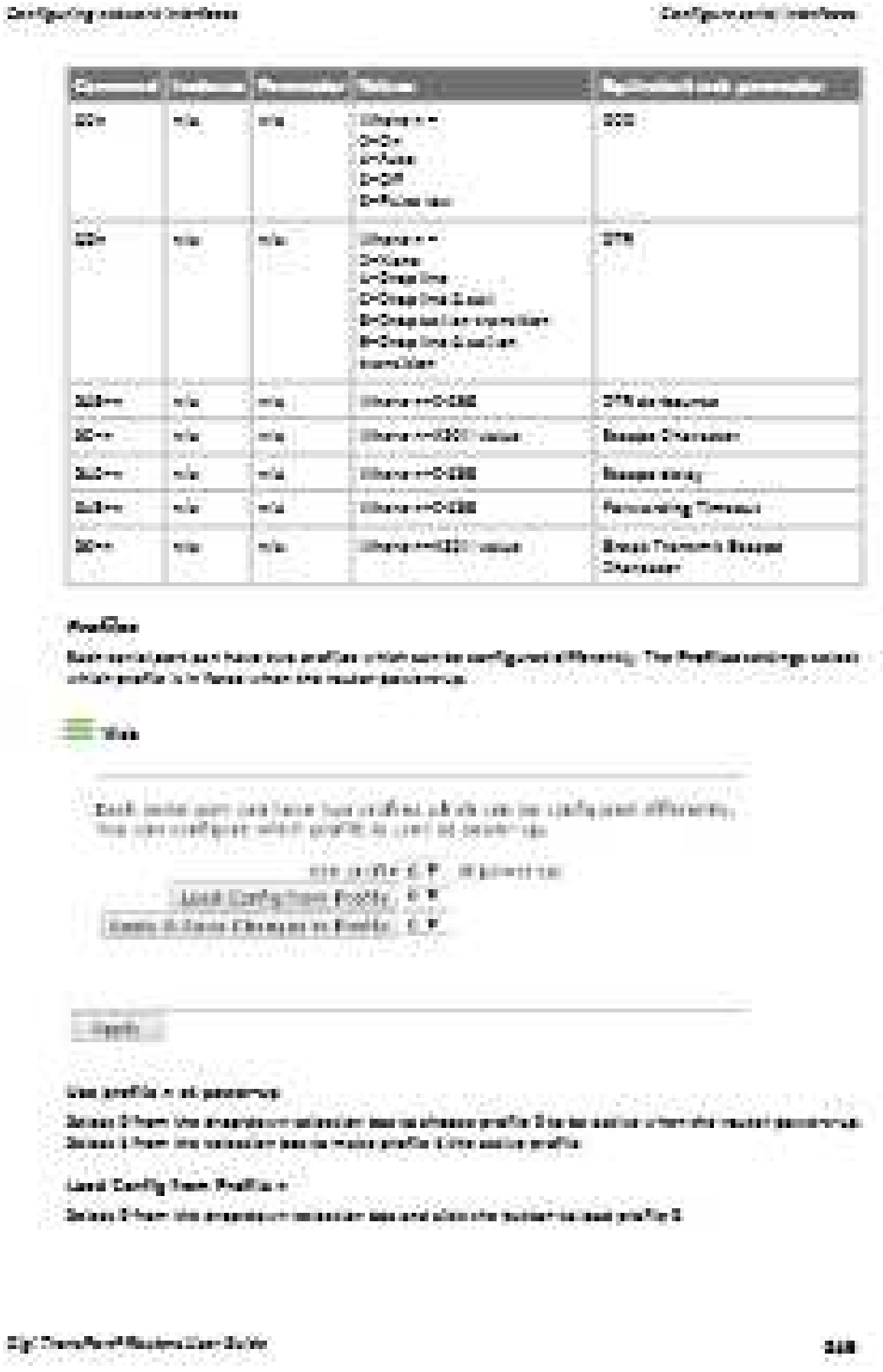
This parameter determines how the router responds to the DTR signal. The available options are:

- None: Configures the router to ignore the DTR signal. This is equivalent to AT&D0.
- Drop and Ignore: Configures the router to disconnect the current call and return to AT command mode when the DTR signal from the associated terminal (DTE) is de-asserted. This is equivalent to AT&D2.

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Configure synchronous communications



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Configure rate adaptation



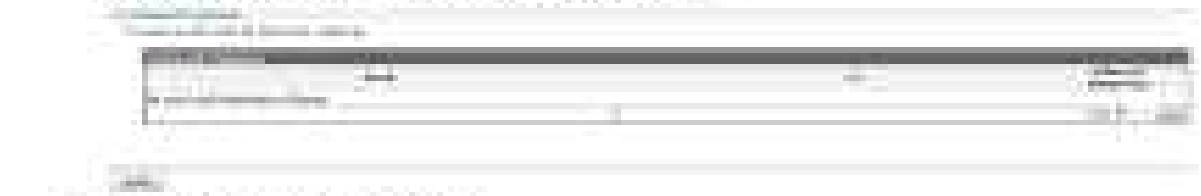


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Configure command alias mappings



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Configure protocol bindings



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Configure virtual serial ports





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[illegible]

[illegible]

[illegible]

Configure port redirection using RealPort

Encryption of RealPort

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Configure sending serial data to multiple serial ports



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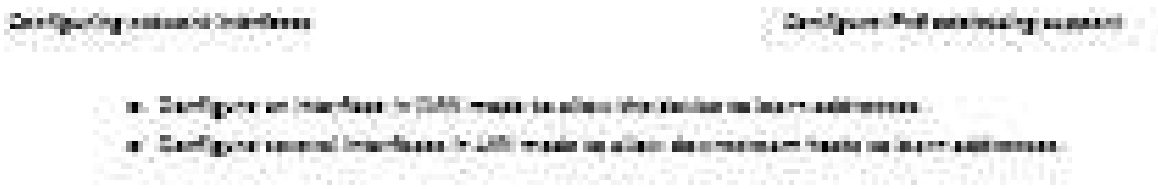
Configure IPv6 addressing support

IPv6 support is for Ethernet interfaces only

IPv6 modes

Typical IPv6 configuration

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IPoE support in the web interface

Note

Support for IPoE addressing in the web interface is limited to configuring Ethernet interfaces, VLANs, and VLIDs to use IPoE addressing. The command line interface provides more functionality for managing and displaying IPoE address information. See

Configuration > Network > Interfaces > IPoE

Ethernet interfaces

IPoE is available on the following interfaces:

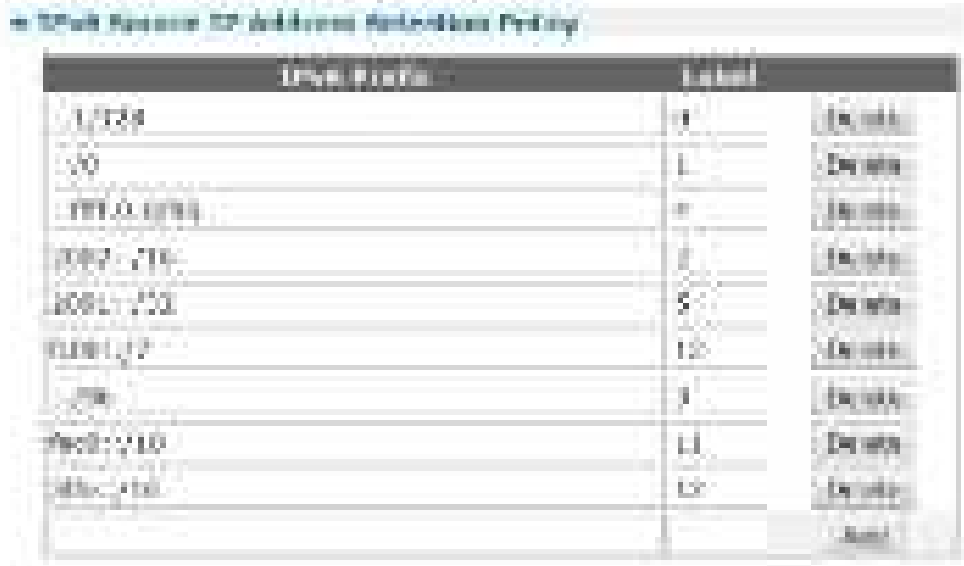
IPoE VLAN

- IPoE
  - Enable router advertising on this interface
  - Enable DHCPv6 client on this interface
- IPoE

IPoE VLD

- IPoE
  - Name
  - Subnet ID
  - Subnet ID Length
- DHCPv6 Server (visible only if DHCPv6 or SLAAC+DHCP IPoE is selected)
  - Preference Value





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IPv6 support in the command-line interface

Command line

"set" commands

"ipv6_mode" command

"ipv6_pool" command

"ipv6_slaac" command

"ipv6_lan" command

mode {slaac, dhcpv6, slaac_dhcpv6}

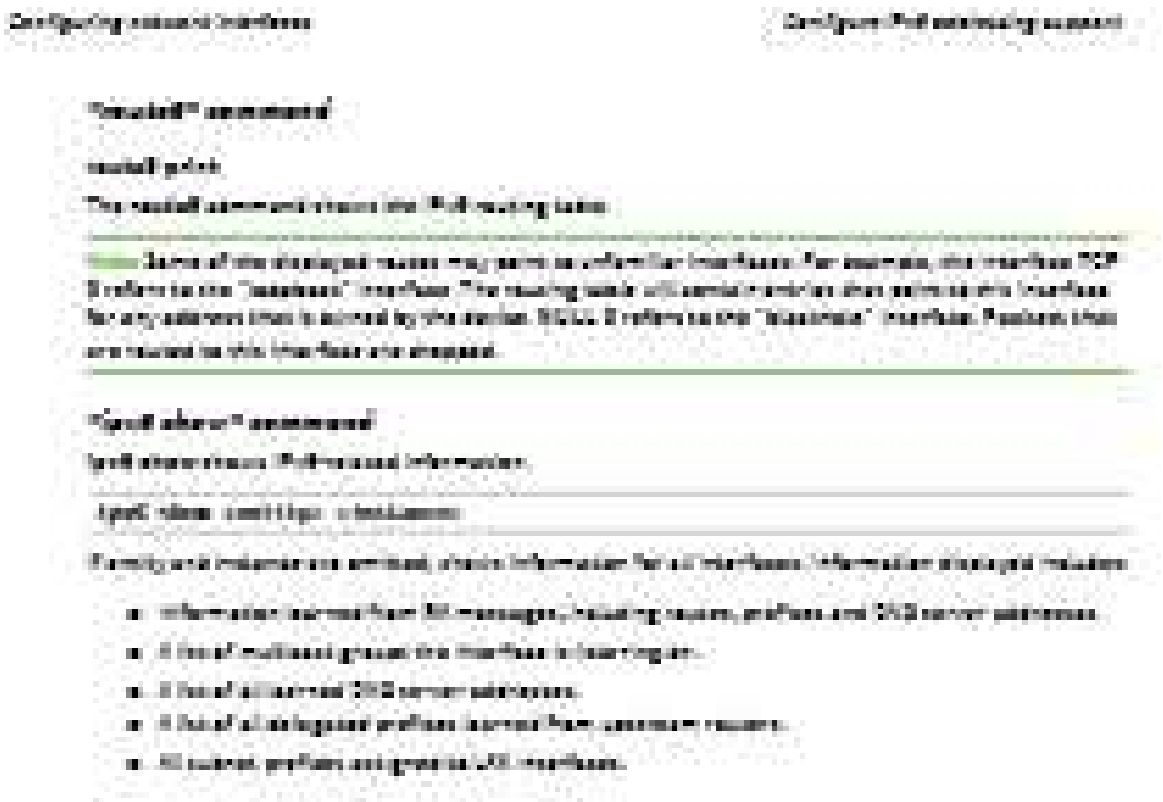
- slaac: The device sends RA messages. The managed and other config flags are both clear.

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Configure a WAN for IPv6

Web

1. Go to Configuration > Network > Interfaces > IPv6 > IPv6 WAN.
2. Enable IPv6 for the Ethernet interface in the Local Ethernet interfaces, select the interface, the IPv6 WAN instance, and click Add.
3. Click IPv6 WAN.
4. Select the IPv6 WAN instance associated with the Ethernet interface and set parameters for the instance:
   - Select Enable router learning on WAN interface to enable learning of prefixes, routes and DNS addresses from an upstream router.
   - Select Enable DHCPv6 client on WAN interface to enable the DHCPv6 client on the WAN interface.
5. Click Apply.

Command line

1. Set the operating mode of the Ethernet interface to wan.

```
uci -c 1 ipv6_mode wan
```

2. Assign the service IPv6 WAN instance to the Ethernet interface.

```
uci -c 1 ipv6_wan 1
```

3. Enable learning of prefixes, routes and DNS addresses from an upstream router.

```
ipv6_wan 1 ra_learn on
```

4. Enable the DHCPv6 client on the WAN interface.

```
dhcpv6_client on
```

5. Save your configuration changes.

```
config -f save
```


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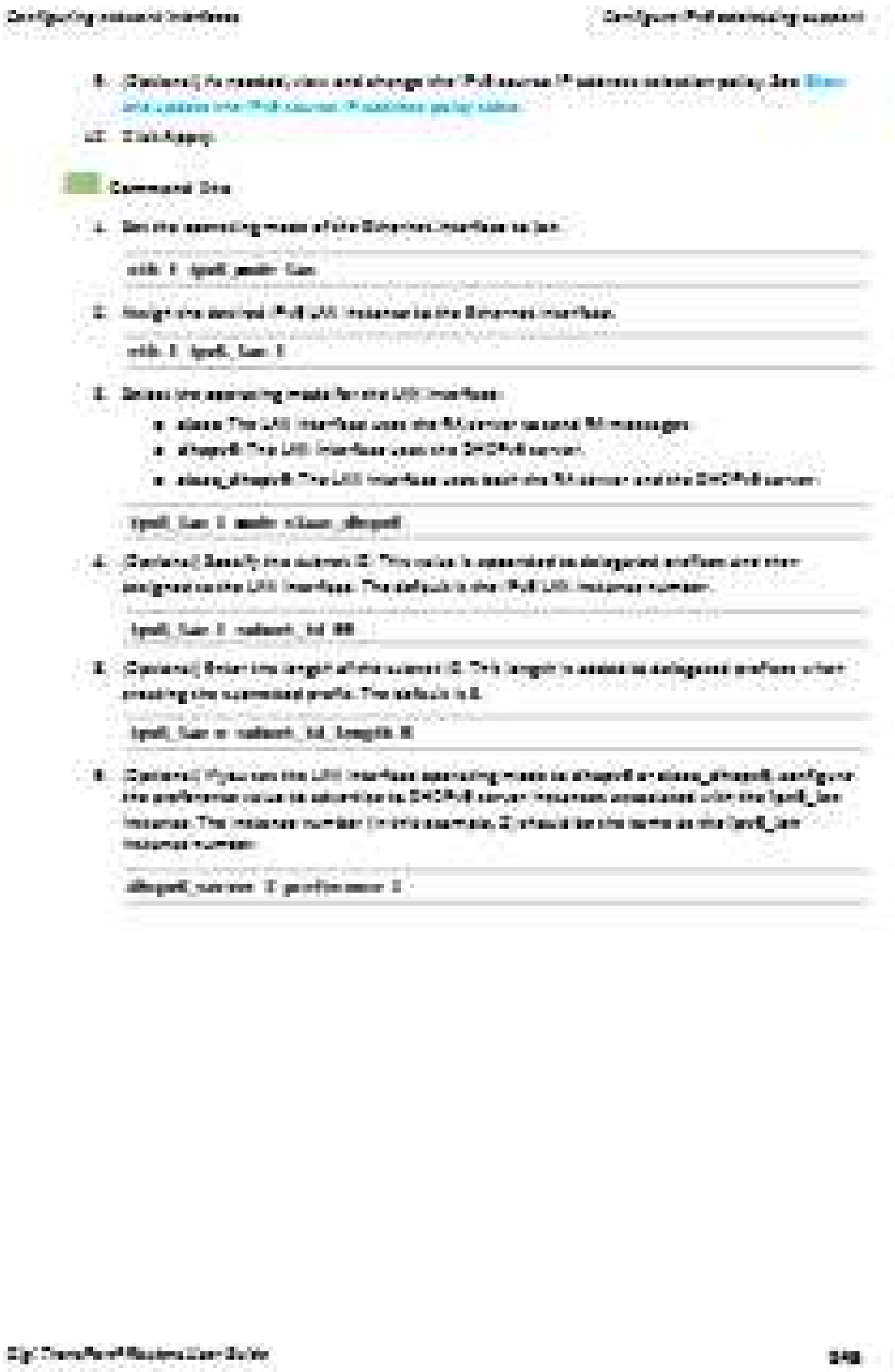
Configure a LAN for IPv6

The router supports IPv6 addressing on Ethernet interfaces with Static, Auto, and Dynamic. The default for IPv6 support on these interfaces is disabled.

Web

1. Go to Configuration > Network > Interfaces > IPv6 > IPv6 LAN.
2. Enable IPv6 for the Ethernet interface in the Local Ethernet interfaces, select the interface instance, the IPv6 LAN instance, and click Add.
3. Click IPv6 LAN. Select the IPv6 LAN instance associated with the Ethernet interface and set parameters for the instance.
4. Select the addressing mode for the LAN interface in the Mode field.
   - BASIC: The device sends Router Advertisement (RA) messages. In these messages, the managed and other config flags are both clear. Prefix options will have the autonomous config flag set.
   - DHCPv6: Enables the DHCPv6 server. The DHCPv6 server assigns addresses from any prefixes the LAN interface has assigned to it. DHCPv6 allows an administrator to set RA messages with the managed and other config flags set. Prefix options will have the autonomous config flag clear.
   - BASIC + DHCPv6: Both the RA server and the DHCPv6 server are enabled. RA messages will have the managed flag clear. The other config flag will be set. Prefix options will have the autonomous config flag set.
5. (Optional) Enter the numeric ID in the Subnet ID field. This value is appended to assigned prefixes and when assigned to the LAN interface. The default is the IPv6 LAN instance number.
6. (Optional) Enter the length of the numeric ID in the Subnet ID Length field. This length is added to delegated prefixes when creating the customized prefix. The default is 8.
7. Click DHCPv6 Server. Enter the preferred value and the DHCPv6 server will advertise.
8. Click Router Advertisements and configure parameters for the Routing Advertisement (RA) server.
   - Enable router advertisements on this interface: Enables or disables the RA server.
   - Maximum Router Advertisements Interval: The maximum interval, in seconds, between RA messages.
   - Minimum Router Advertisements Interval: The minimum interval, in seconds, between RA messages. Does not exceed minimum interval is further limited to 0.75 of the maximum interval.
   - Include 3rd MTU: When enabled, RA messages include the 3rd MTU option. The MTU value is set to the MTU of the configured interface.
   - Reachable Time: The advertised "reachable" time, in milliseconds, in RA messages.
   - Retransmission Timer: The advertised "retransmit" time, in milliseconds, in RA messages.
   - Hop Limit: The advertised hop limit in RA messages.
   - Default Lifetime: The advertised default lifetime, in seconds, in RA messages.

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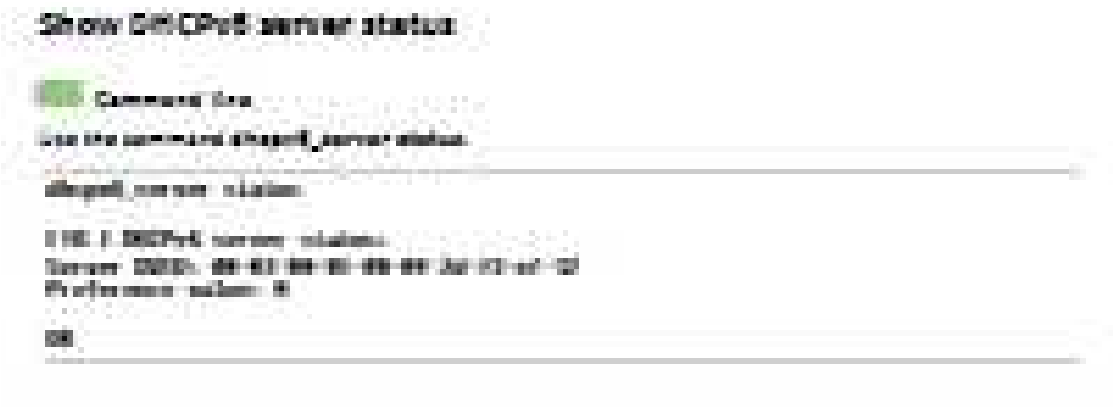
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Show and update the IPv6 source IP address policy table

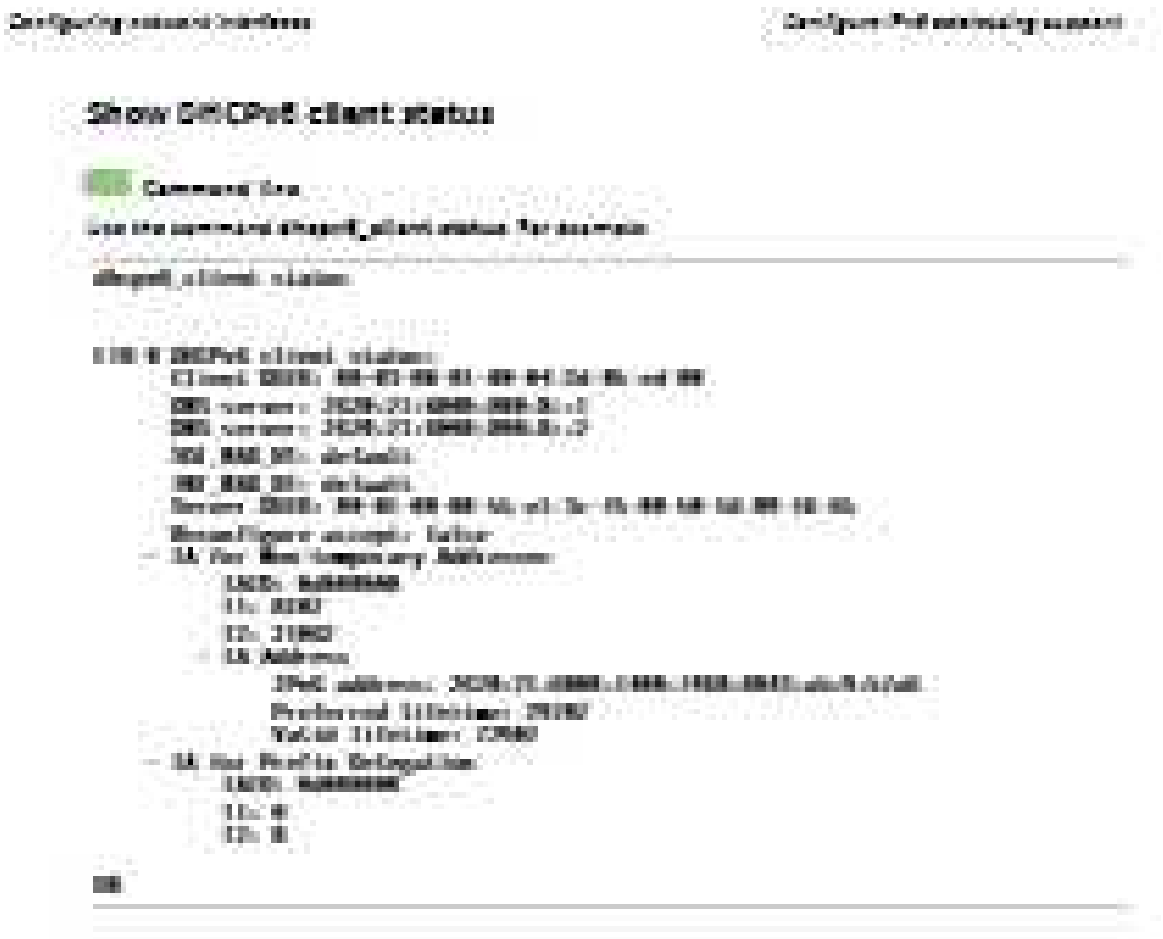
Web

Command line

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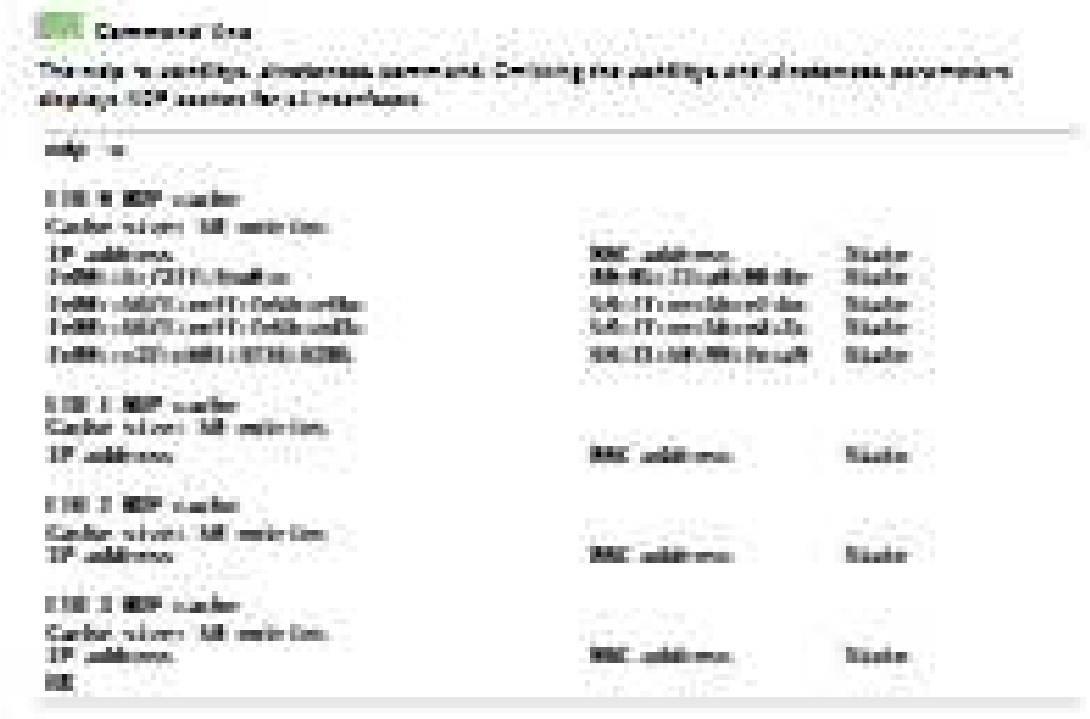

Show DHCPv6 client status

Use DHCPv6 to learn IPv6 addresses

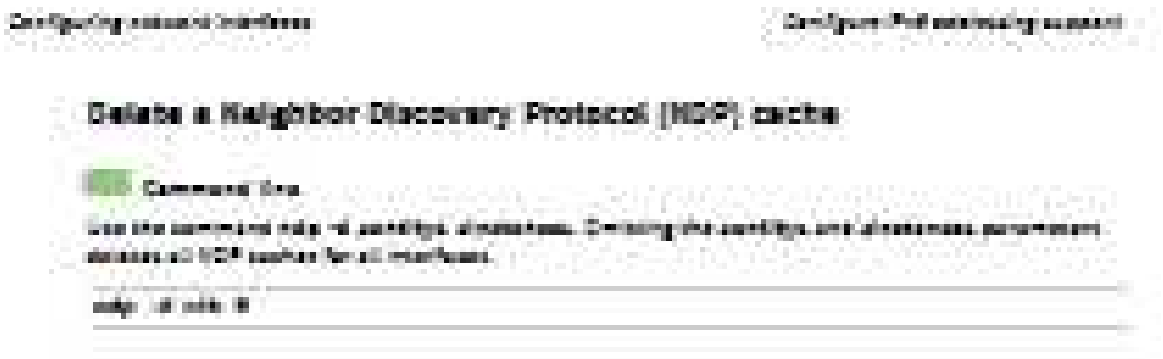


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Use the Neighbor Discovery Protocol (NDP) cache



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Show the IPv6 routing table

Command line

Use the **netstat -pr6** command.



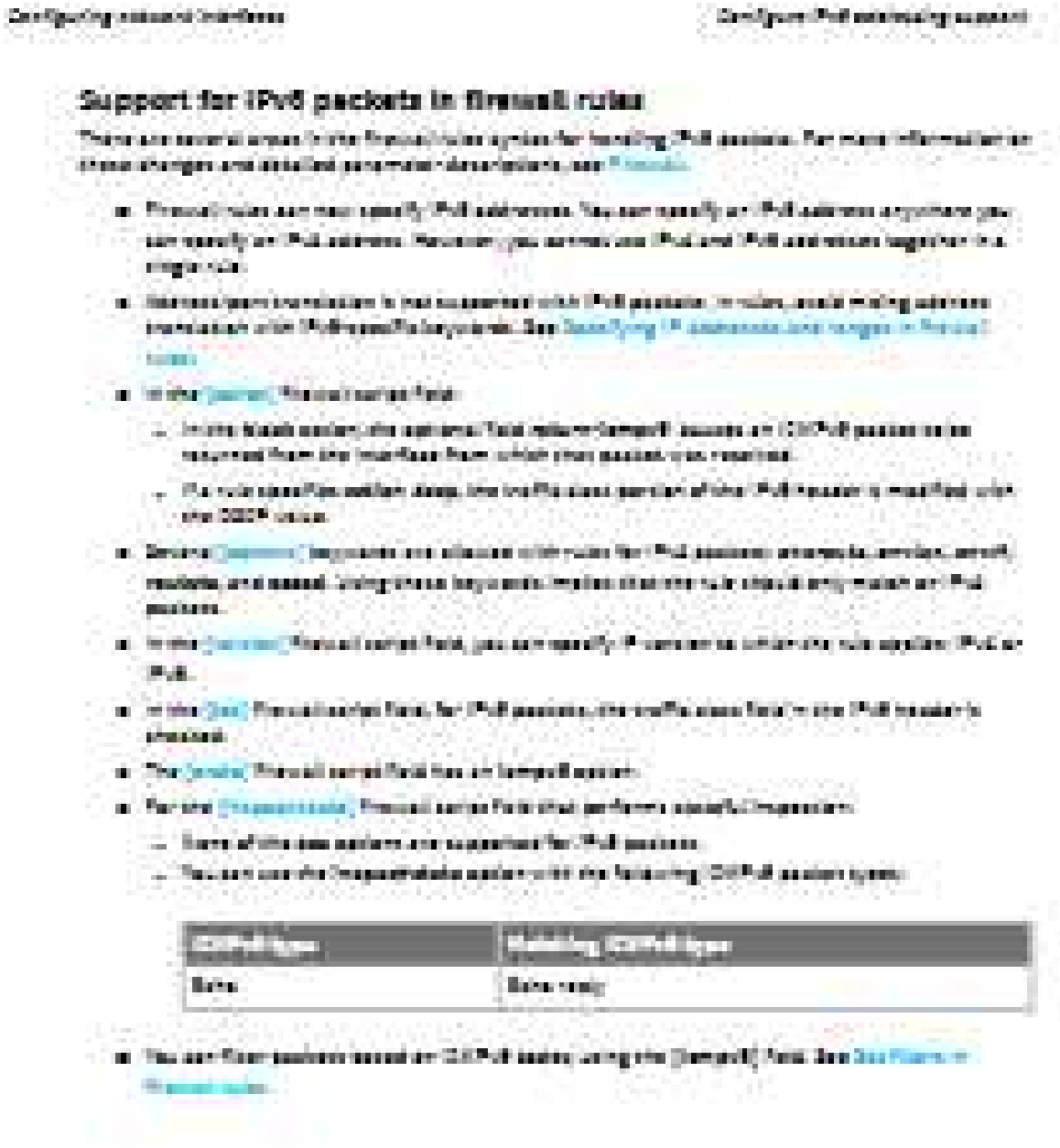
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Show IPv6 routing and address information





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Support for IPv6 packets in firewall rules

- Firewall rules can now specify IPv6 addresses. You can specify an IPv6 address anywhere you can specify an IPv4 address. Moreover, you can mix IPv4 and IPv6 addresses together in a single rule.
- Address/port translation is not supported with IPv6 packets. In rules, avoid mixing address translation with IPv6-specific keywords. See
- In the Firewall configuration field:
  - In the Match section, the optional field value [redacted] causes an ICMPv6 packet to be matched if it arrives from the interface from which that packet was received.
  - For rules specifying either dscp, the traffic class portion of the IPv6 header is matched with the DSCP value.
- Service [redacted] keywords are allowed with rules for IPv6 packets and specify a service, port, protocol, and name. Using these keywords implies that the rule should only match an IPv6 packet.
- In the Firewall configuration field, you can specify IP version as either any rule applies IPv4 or IPv6.
- In the Set Firewall configuration field, for IPv6 packets, the traffic class field in the IPv6 header is changed.
- The Firewall configuration field has an [redacted] option.
- For the Firewall configuration field that performs classification:
  - Some of the new options are supported for IPv6 packets.
  - You can use the [redacted] option with the following ICMPv6 packet types:

[redacted]	[redacted]
None	None [redacted]

- You can filter packets based on ICMPv6 packet using the [redacted] field. See

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Configure PPP and external modems

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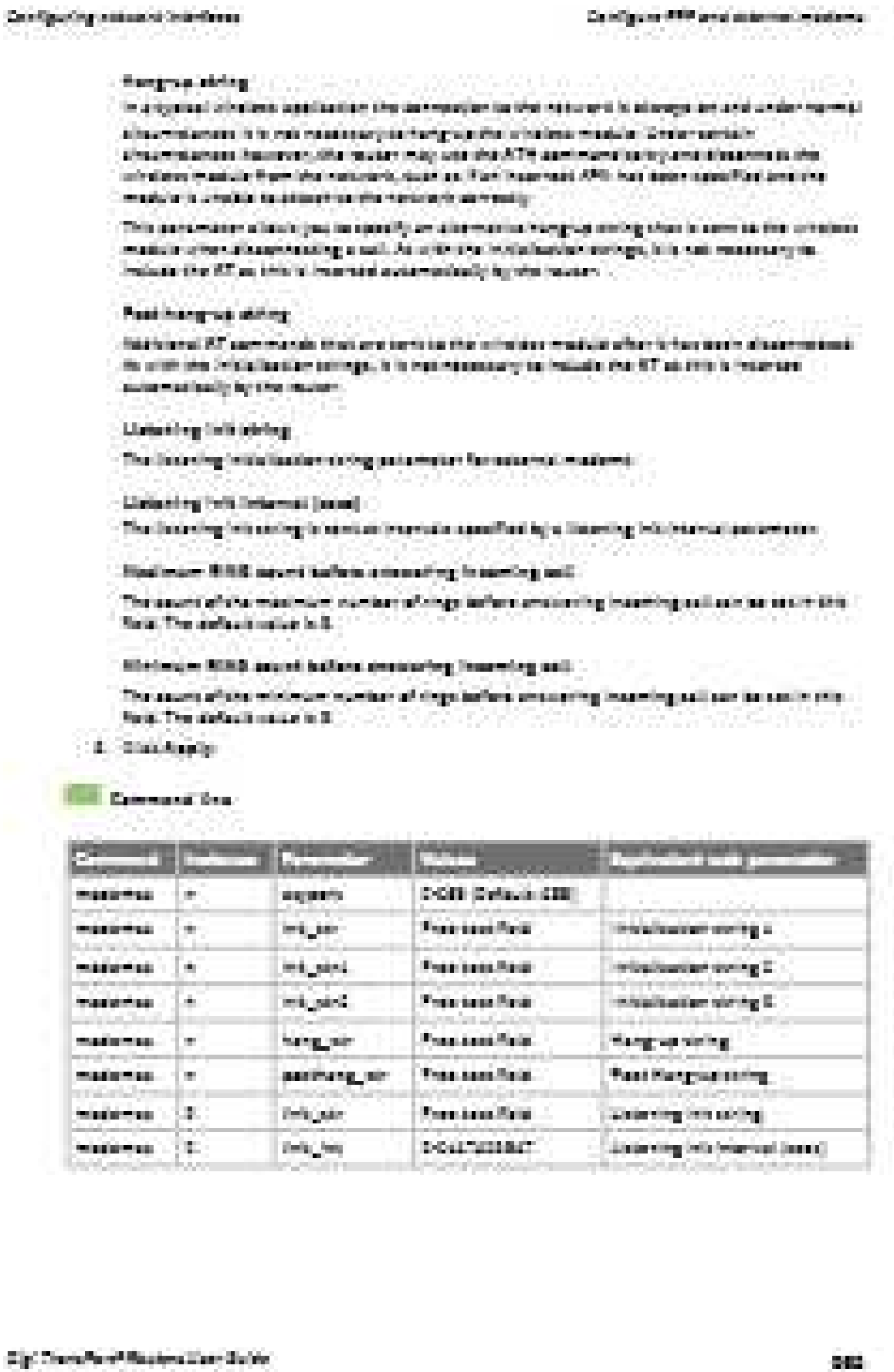
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Configure octamail modem support



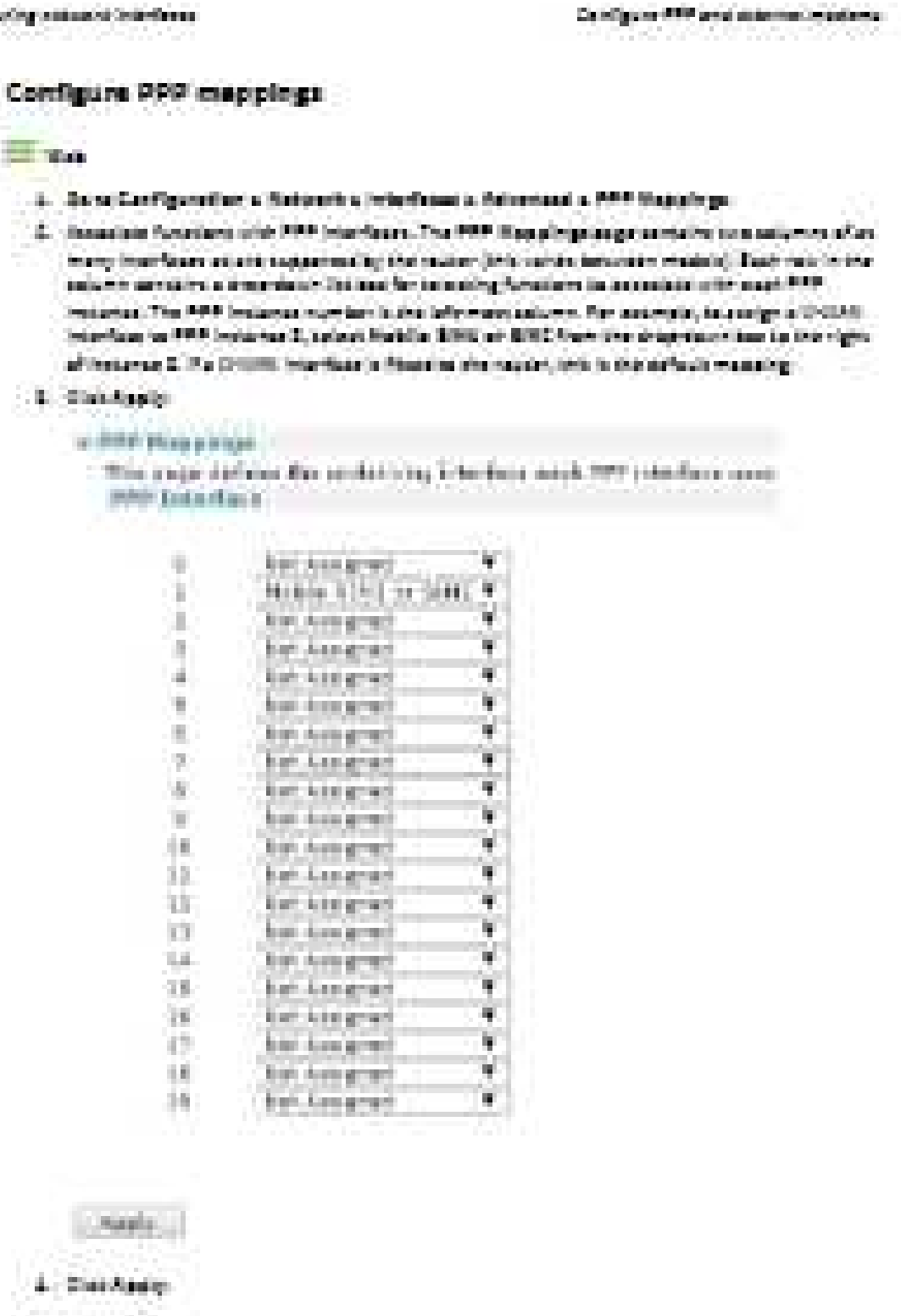


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Configure PPP mappings



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Configure PPP parameters

1. [illegible]
2. [illegible]

[illegible]

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Configure mobile PPP parameters

Use

1. Configure mobile PPP parameters as needed:

2. Click Apply.

Command line

ppp	1	gprs_cid	1-16	
ppp	1	passwd_gprs_1	string	
ppp	1	passwd	string	

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Configure advanced PPP parameters

1. Go to Configuration > Network > Interfaces > Advanced > PPP > PPP > Advanced.
2. Configure advanced PPP parameters as needed.

Priority

Keep Always on mode of this interface

Do

Disable interface "Out of Service" when an assigned connection attempt fails

Attempt to reconnect after x seconds

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Configure PPP negotiation



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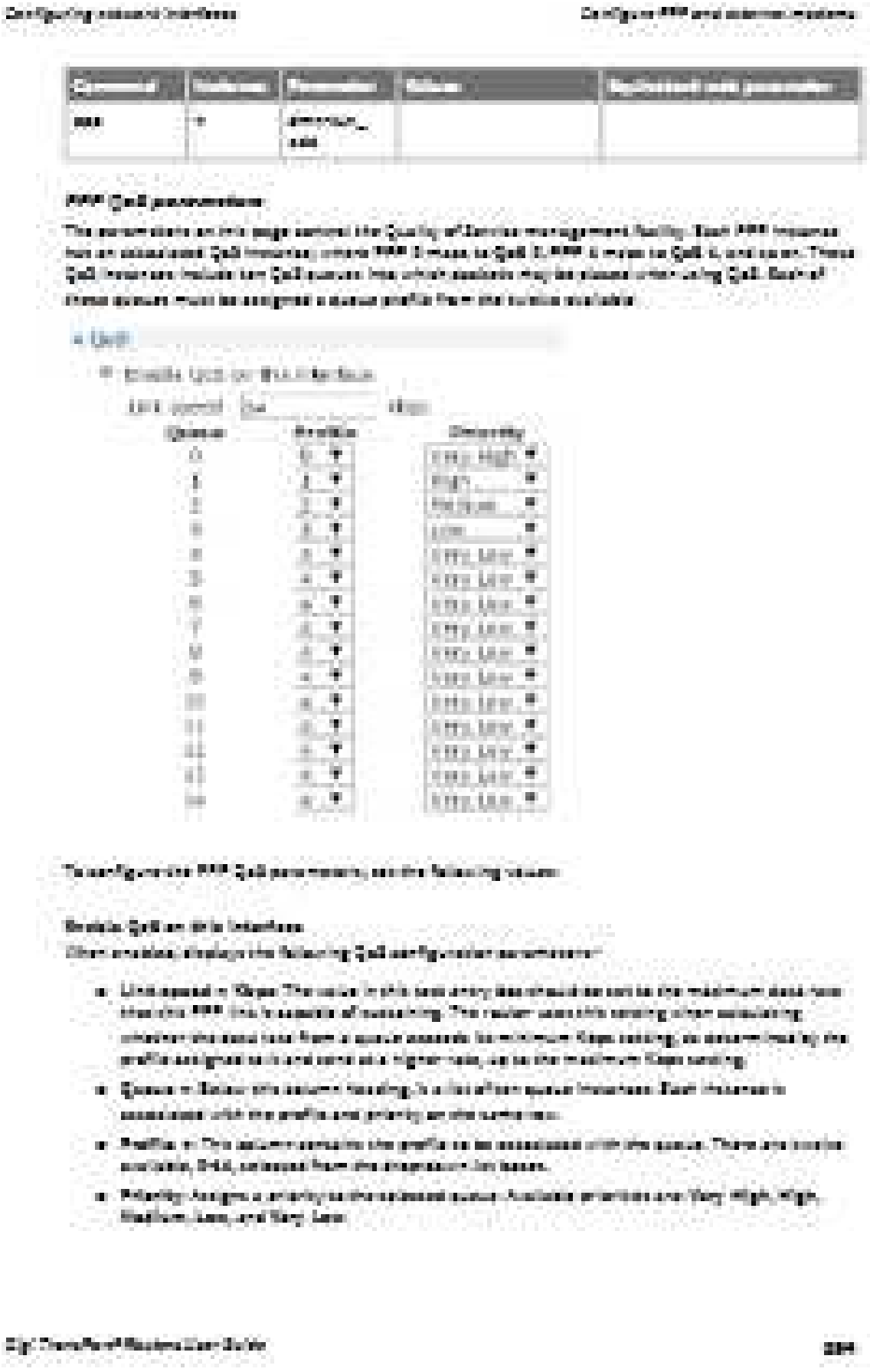
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qos	+	[illegible]	0-	[illegible]
qos	+	qfperf	0-ff	Queue1 Profile
qos	+	qfpria	0-f 0=Very High 1=High 2=Medium 3=Low 4=Very Low	Queue1 Priority
qos	+	qlperf	0-ff	Queue1 Profile
qos	+	qlpria	0-f	Queue1 Priority
qos	+	qfperf	0-ff	Queue1 Profile
qos	+	qfpria	0-f	Queue1 Priority
qos	+	qfperf	0-ff	Queue1 Profile
qos	+	qfpria	0-f	Queue1 Priority
qos	+	qlperf	0-ff	Queue1 Profile
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qos	+	qfperf	0-ff	Queue1 Profile
qos	+	qfpria	0-f	Queue1 Priority
qos	+	qlperf	0-ff	Queue1 Profile
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qos	+	qlpria	0-f	Queue1 Priority

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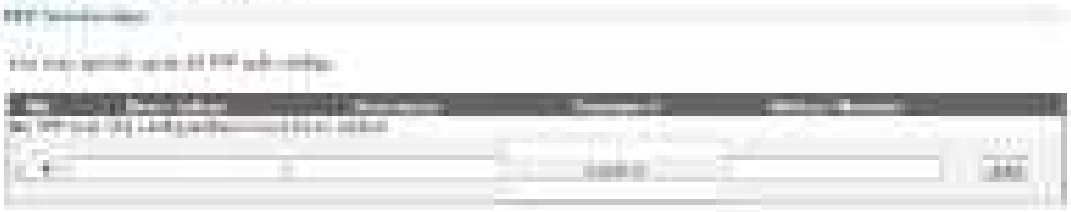
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Configure PPP sub-configurations

Using PPP sub-configurations is an alternative to using an entire PPP instance. Typically, the parameters are different as those in an existing PPP instance. Using PPP sub-configurations, you can define up to 32 sub-configurations and save them in system memory.

Web

1. Go to Configuration > Network > Interfaces > Advanced > PPP Sub-Configs.
2. Set the following parameters:



Name
The instance number for a sub-config.

Description
The name to easily identify the sub-config.

Username
The username for authenticating with the remote system. Usually required for outgoing PPP calls only.

Password
The password for authentication with the remote system.

Confirm
When changing the password, enter it into this field as well to allow the router to check for simple typing errors.

Dialout Number
The PSTN number to make outgoing calls. This must be a valid number in order to allow the router to make outgoing calls. This number would be the number of the Internet Service Provider (ISP) or modem router.

Add Number
Adds the PPP sub-config to the PPP configuration.

3. Click Apply.

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Configure PPP over Ethernet

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Command line

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Configuring DHCP servers

About DHCP servers

Digi routers and gateways can act as Dynamic Host Configuration Protocol (DHCP) servers, and for most Ethernet ports. DHCP is a standard Internet protocol that allows a DHCP server to dynamically assign IP addressing and configuration information to network clients.

Note

To set Configuration > Network > DHCP server. These pages include a web page for configuring each of the DHCP servers. Additionally, there is a separate page for mapping MAC addresses to fixed IP addresses.

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Configure DHCP server for Ethernet interfaces





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Configuring DHCP servers Configure DHCP server for Ethernet interfaces

Mask

The subnet mask on the network on which the router is connected.

Gateway

A gateway is required to enable to route data to IP addresses that are not on the local subnet. The value in this box specifies the IP address of the gateway (which is usually the IP address of the router itself as configured by the IP address of the Ethernet interface associated with this DHCP instance). Alternatively this may be set to the IP address of another router on the LAN.

DNS Server

The IP address of the primary DNS server to use by clients on the LAN. This is usually the IP address of the router itself. Alternatively this may be set to the IP address of an alternative DNS server on the LAN.

Secondary DNS Server

The IP address of a secondary DNS server (if available) that DHCP clients on the LAN can use.

Domain Name

The domain name required by clients.

Lease Duration (# days & hrs or mins)

How long a DHCP client can use the assigned IP address before it must renew its configuration with the DHCP server. When configuring this value using the command line interface be aware that this parameter is specified in minutes. The three boxes here are for convenience when using long lease durations.

Wait for x milliseconds before sending DHCP offer reply

When this setting is enabled, the router uses the value in the text box as the delay in milliseconds prior to sending out the DHCP_OFFER message. Enabling this functionality and setting the delay to a reasonable value can allow other DHCP servers on the network to respond first.

Duplicate Address Detection

Forces the router to check for duplicate addresses.

Only send offers to DHCP clients

When enabled, causes the router to only send DHCP offers to DHCP clients. This is useful if the router-server is on an access point and there is a separate DHCP server on the Ethernet LAN.

DHCP Relay

Forward DHCP requests to subnet

The subnet in which a DHCP relay agent resides. Usually the IP addresses of the subnet are assigned DHCP relay agents. The DHCP server is on a different subnet, specifying the IP address of the server in this text box causes the router to forward DHCP requests to the IP address specified. The DHCP server must be configured to

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Configure advanced DHCP parameters

Web

1. Go to Configuration > Network > DHCP Server > DHCP Server for Ethernet > Advanced.
2. Set advanced DHCP parameters:



Next Bootstrap Server Address

The IP address of a secondary configuration server. The server does not have to be on the same logical subnet as the client.

Server Hostname

The name of a host that the DHCP client can make contact with in order to download a boot file.

Boot File

The name of the boot file the client can download from the host specified in the Server Hostname field.

Send optional responses

If enabled, some optional responses to DHCP clients from the DHCP server.

3. Click Apply.

Command Line

show	ip	network	Valid IP address	Next Bootstrap Server
show	ip	server-name	Server FQDN	Server Hostname
show	ip	file	Server FQDN	Boot file

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Configure advanced DHCP options

Web

1. Go to Configuration > Network > DHCP Server > DHCP Server for Ethernet > Advanced DHCP Options.



2. Set advanced DHCP options.

Primary NetBIOS Name Server *n.n.n.n*

The IP address of the primary NBNS server address.

Secondary NetBIOS Name Server *n.n.n.n*

The IP address of the secondary NBNS server address.

TFTP Server Address *n.n.n.n*

The IP address of a TFTP server from which images may be downloaded.

TFTP Server Address *n.n.n.n* **(for UTM8 Terminals)**

The IP address of an TFTP server and is a custom option for use with UTM8 terminals.

TFTP Root Dir (for UTM8 Terminals)

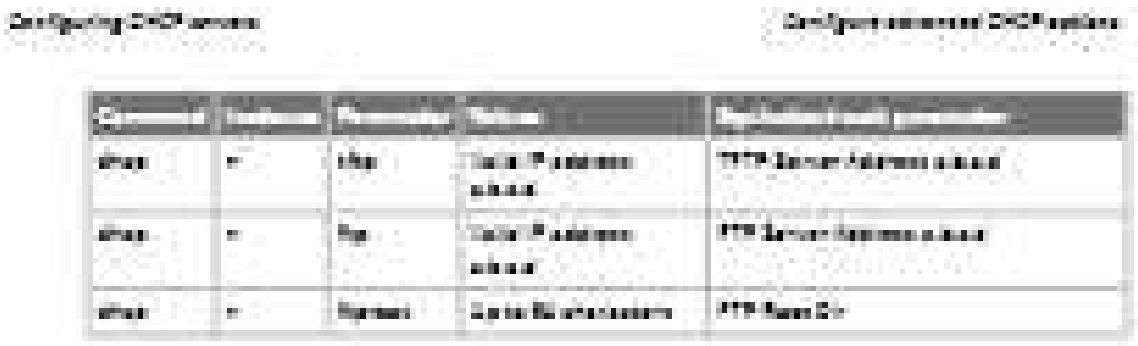
The root directory for TFTP transfers. This is also a custom option for use with UTM8 terminals.

3. Click **Apply**.

Command Line

dhcp	-	NBNS	Valid IP address	Primary NetBIOS Name Server
dhcp	-	NBNS2	Valid IP address	Secondary NetBIOS Name Server

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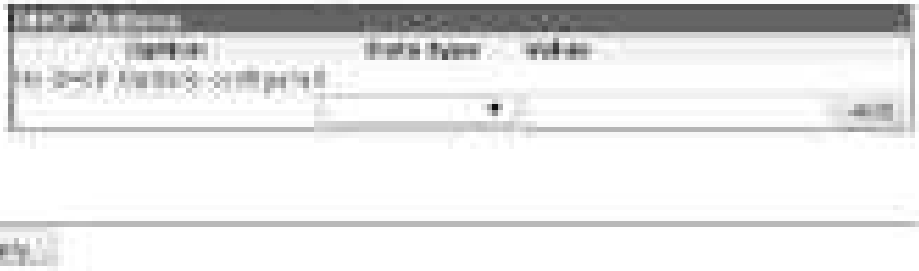


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Configure DHCP options

Web

1. Go to Configuration > Network > DHCP Server > DHCP Options.



2. Enter DHCP options in the table.

Option

The DHCP option number.

Option type

The data type for the option and can be any one of the following: 8, 16, and 32 bit integer values, IPv4 address, text string, or hexadecimal value.

Value

The actual data that will be sent in the DHCP option message.

3. Click Apply.

Command line

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Configure static lease reservations

Web

1. In the Configuration > Network > DHCP Server > Static Lease Reservations

2. Enter static lease reservation parameters:

   IP Address (required)

   The IP address to be assigned.

   MAC Address (required)

   The MAC address which is to be given the above IP address.

   Add Button

   Inserts specified static lease reservation in the DHCP configuration.

   Delete Button

   Removes an existing static lease reservation from the DHCP configuration.

3. Click **Apply**.

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Configuring network services



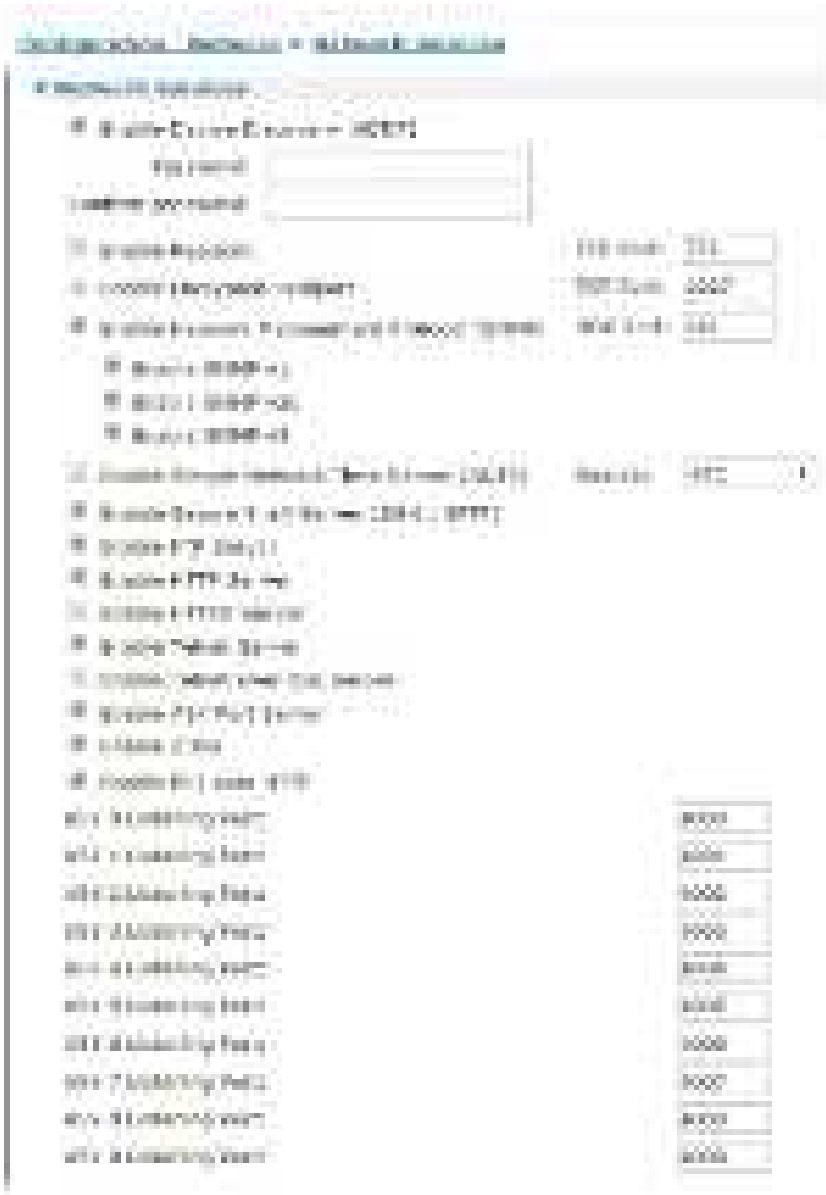


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Configure network services



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Enable Realport

Allows access to the router over RealPort, proprietary Real Port COM/TTY port redirection software for Windows® computers.

Enable Encrypted Realport

Allows access to the router over RealPort connections with encryption. Encrypted RealPort offers a secure Ethernet connection between the COM or TTY port and a device server or serial device. Encryption prevents internal and external snooping of data across the network by encapsulating the TCP/IP packets in a Secure Sockets Layer (SSL) connection and encrypting the data using Advanced Encryption Standard (AES).

Enable Network Management Protocol (SNMP)

Disables and enables remote management of the router using SNMP. This setting does not actually modify settings for SNMP functionality, but enables or disables the remaining SNMP settings on this page. To perform detailed configuration, including setting username types, users and SNMP traps, go to Configuration > Remote Management > SNMP.

Note Changing existing settings may result in sufficient disruption to the service to cause existing connections to be dropped. Depending upon the SNMP version selected below, additional configuration may be required.

UDP Port

The standard UDP port for SNMP is 161. The default. If you require a different port, enter the port number in the text entry box.

Enable SNMP v1

Allows access to the router over SNMP version 1.

Enable SNMP v2c

Allows access to the router over SNMP version 2c.

Enable SNMP v3

Allows access to the router over SNMP version 3.

Enable Simple Network Time Server (SNTP)

Allows access to the router as a Simple Network Time Protocol (SNTP) time server.

Servers

This drop-down selection menu selects the source that supplies time data for the SNTP server. The available options are:

- Internal real-time clock (RTC) service
- A DNS resolvable name (if supported)
- An IPv4 address (if supported)

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Configuring DNS



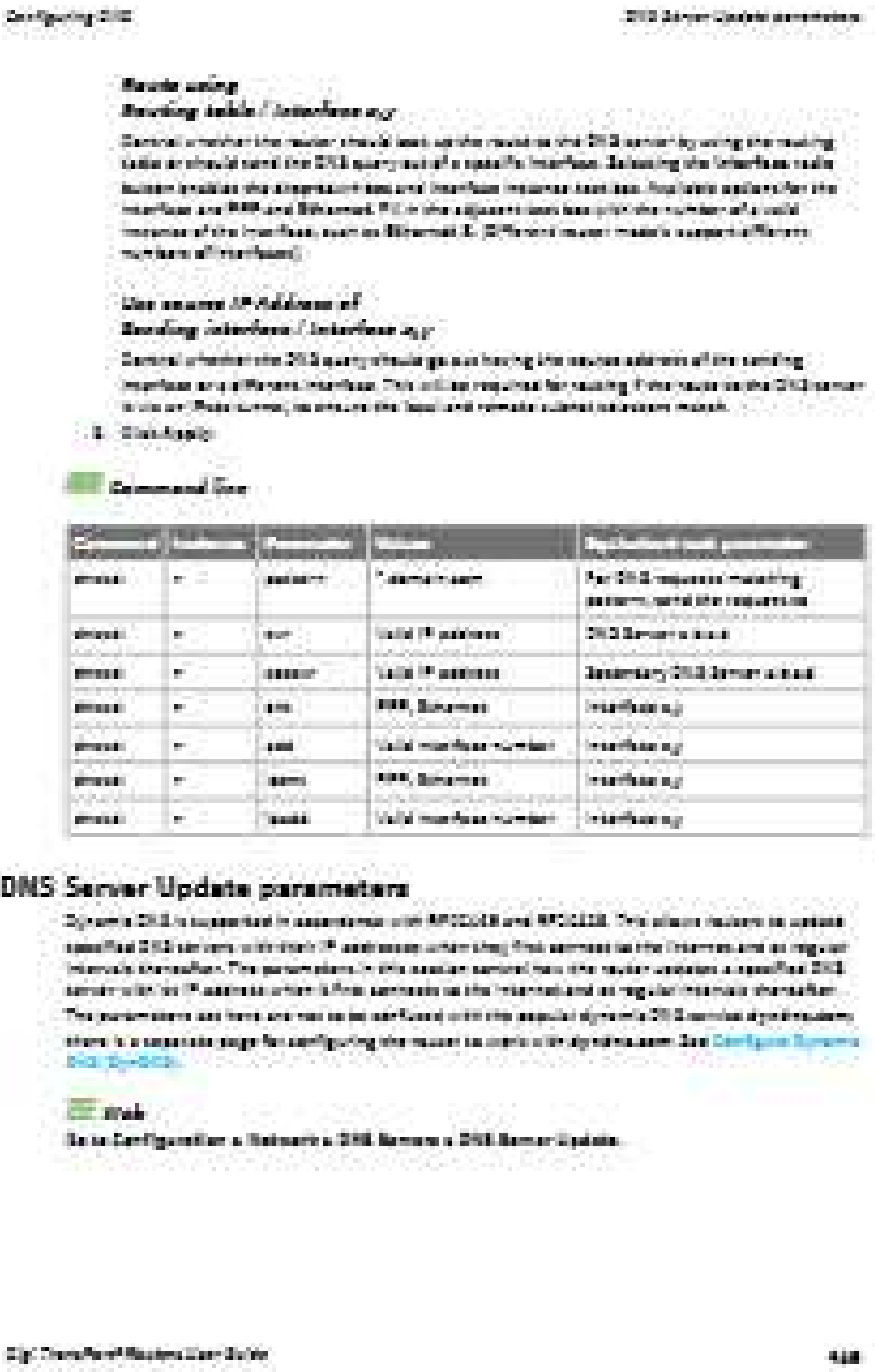
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Configure DNS servers

DNS Server n parameters



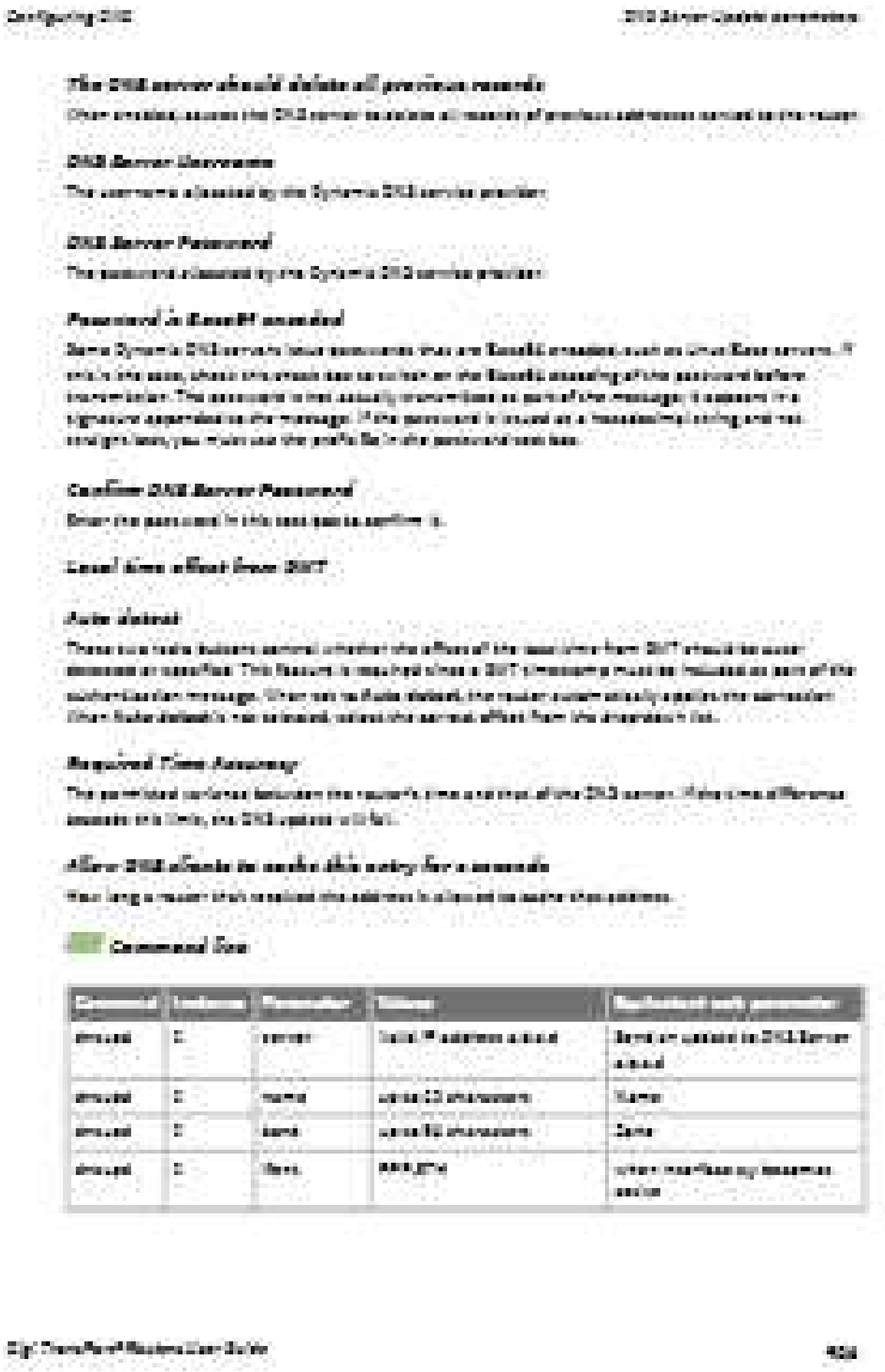
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DNS Server Update parameters

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Configure Dynamic DNS (DynDNS)

The Dynamic DNS client (DynDNS) updates DNS name entries when the current IP address of a particular interface. Dynamic DNS operates under the specification supplied by DynDNS.[illegible] referred to in the web interface as Dynamic DNS.

When an interface connects, the client checks the current IP address of that interface. If the IP address differs from that obtained from the previous connection, the Dynamic DNS service is contacted, and the hostname specified in the Hostname parameter is updated with the new address.

Dynamic DNS parameters

Web

1. Go to Configuration > Network > Dynamic DNS.



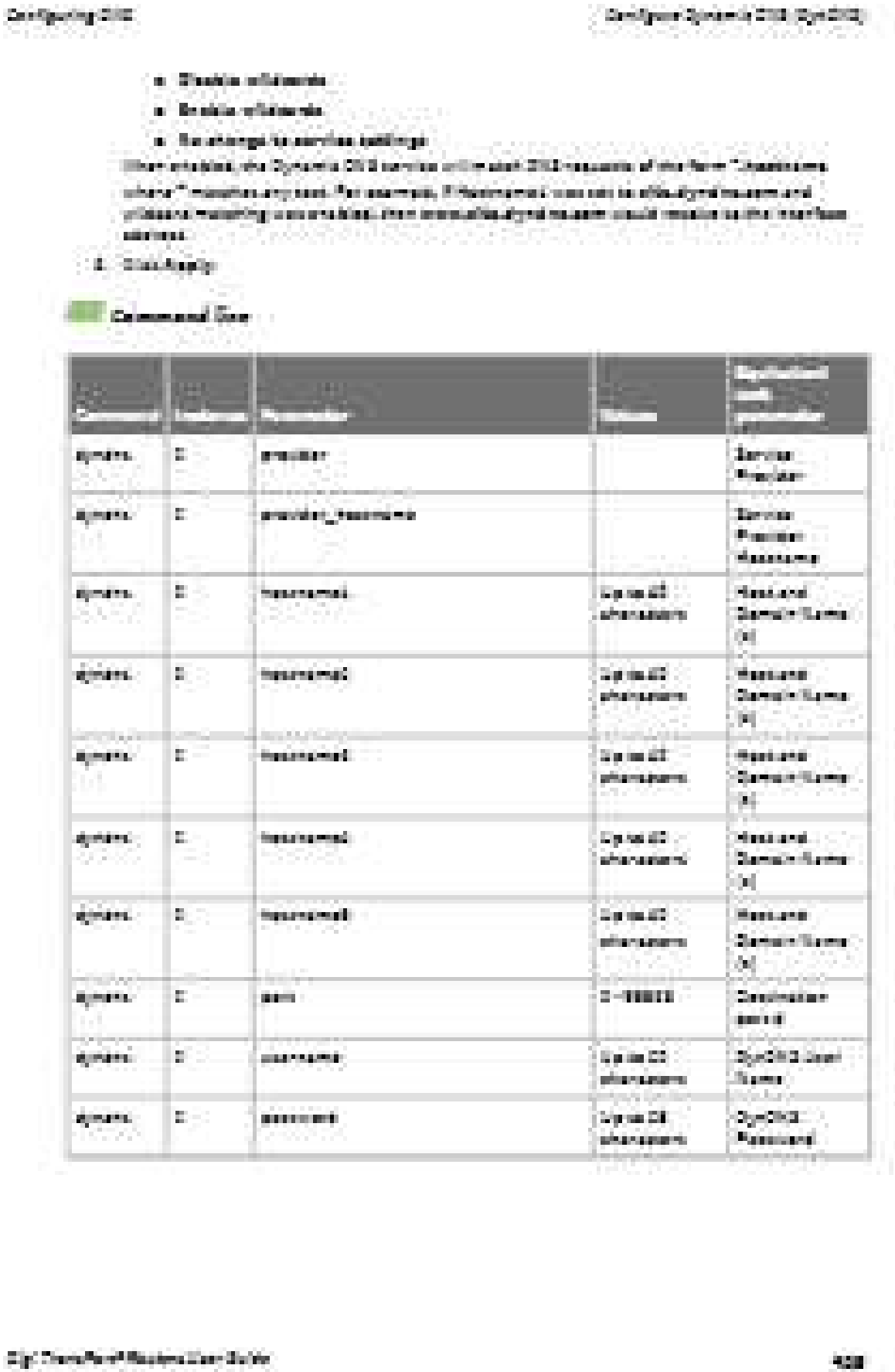
2. Configure Dynamic DNS parameters.

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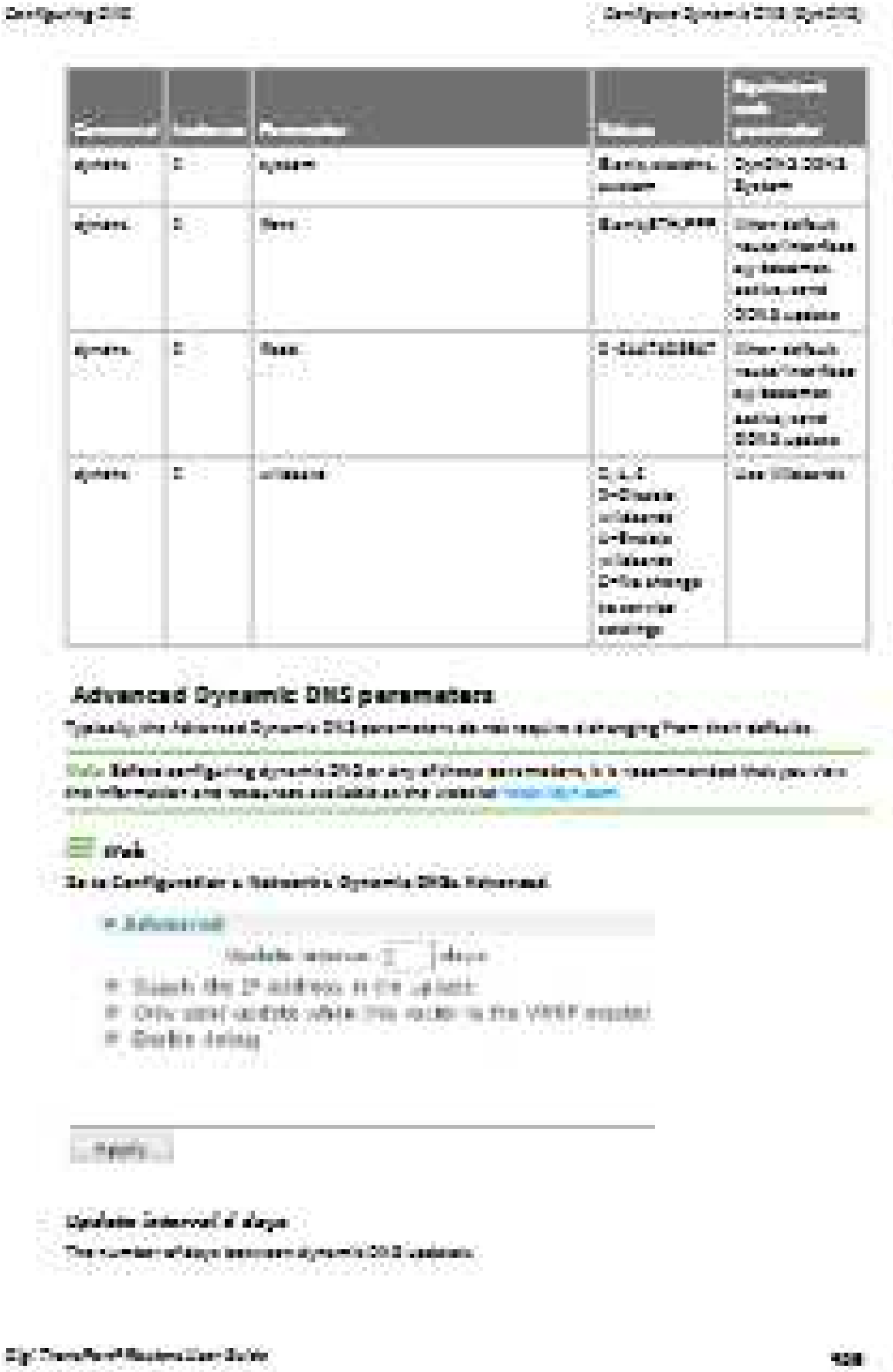
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[illegible] the IP address in the update

[illegible]

[illegible] send update when the router is the [illegible] master

[illegible]

Enable debug

[illegible]

Command Set

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
dynamic	0	update no	[illegible]	Update numerical order
dynamic	0	help	[illegible]	Supply the IP address in the update
dynamic	0	[illegible]	[illegible]	Only send update when the router is the [illegible] master
dynamic	0	debug	[illegible]	Enable debug

[illegible]

Configuring IP routing and forwarding

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Supported routes

- Dynamic routes
- Static routes
- Default routes

Dynamic routes

Static routes

Web

- IP address
- Mask
- Interface
- Interface number

Default routes

Web

Routing modes

- ConsolePort routing mode. The original routing method provided on existing installations.
- CDR routing mode. Enabled by default on most TransPort routers.

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View the TransPort routing table



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Configure route metrics

[illegible]

To configure route metrics, use the following route parameters:

- [illegible]
- [illegible]

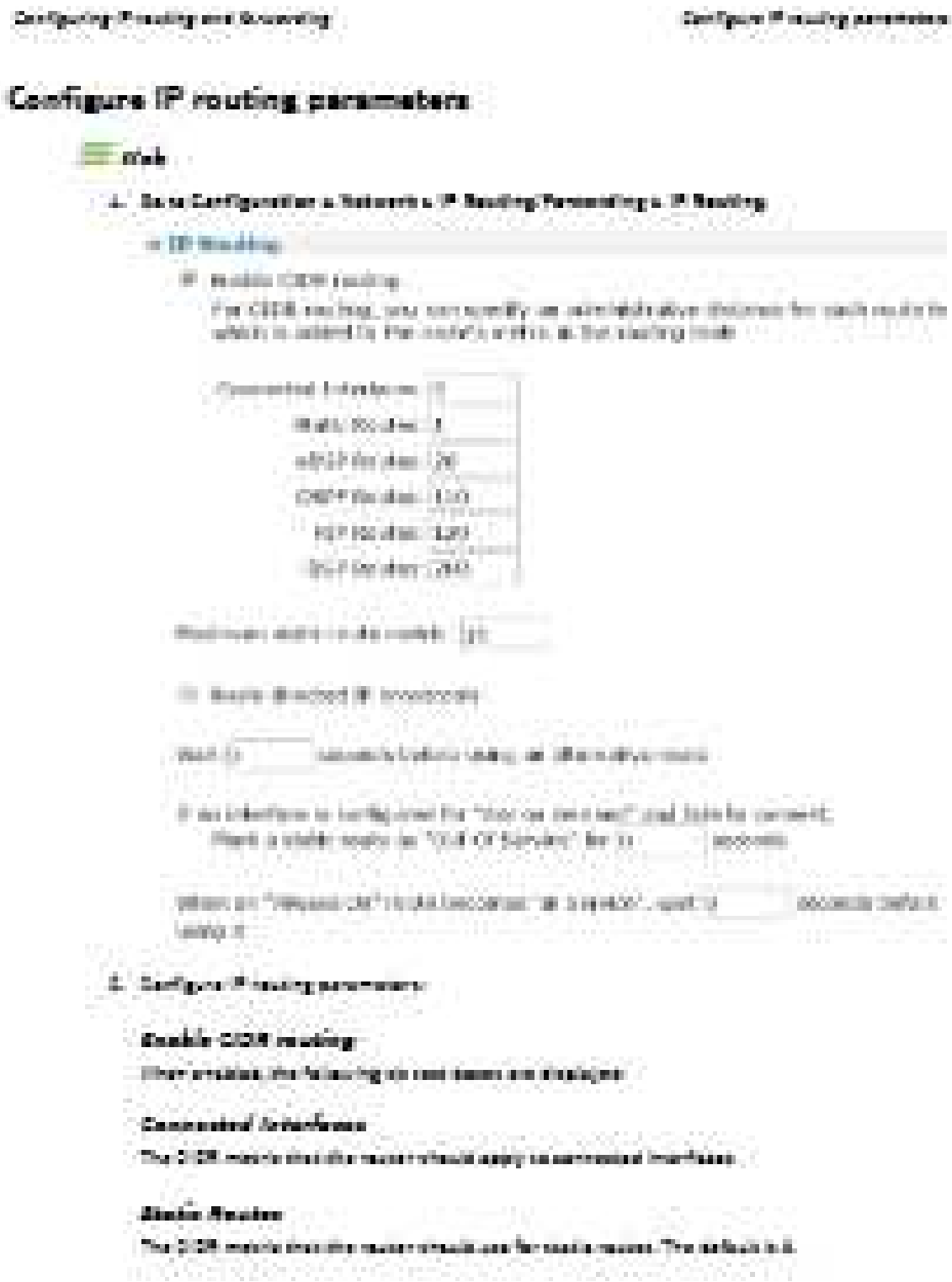
[illegible]

[illegible]

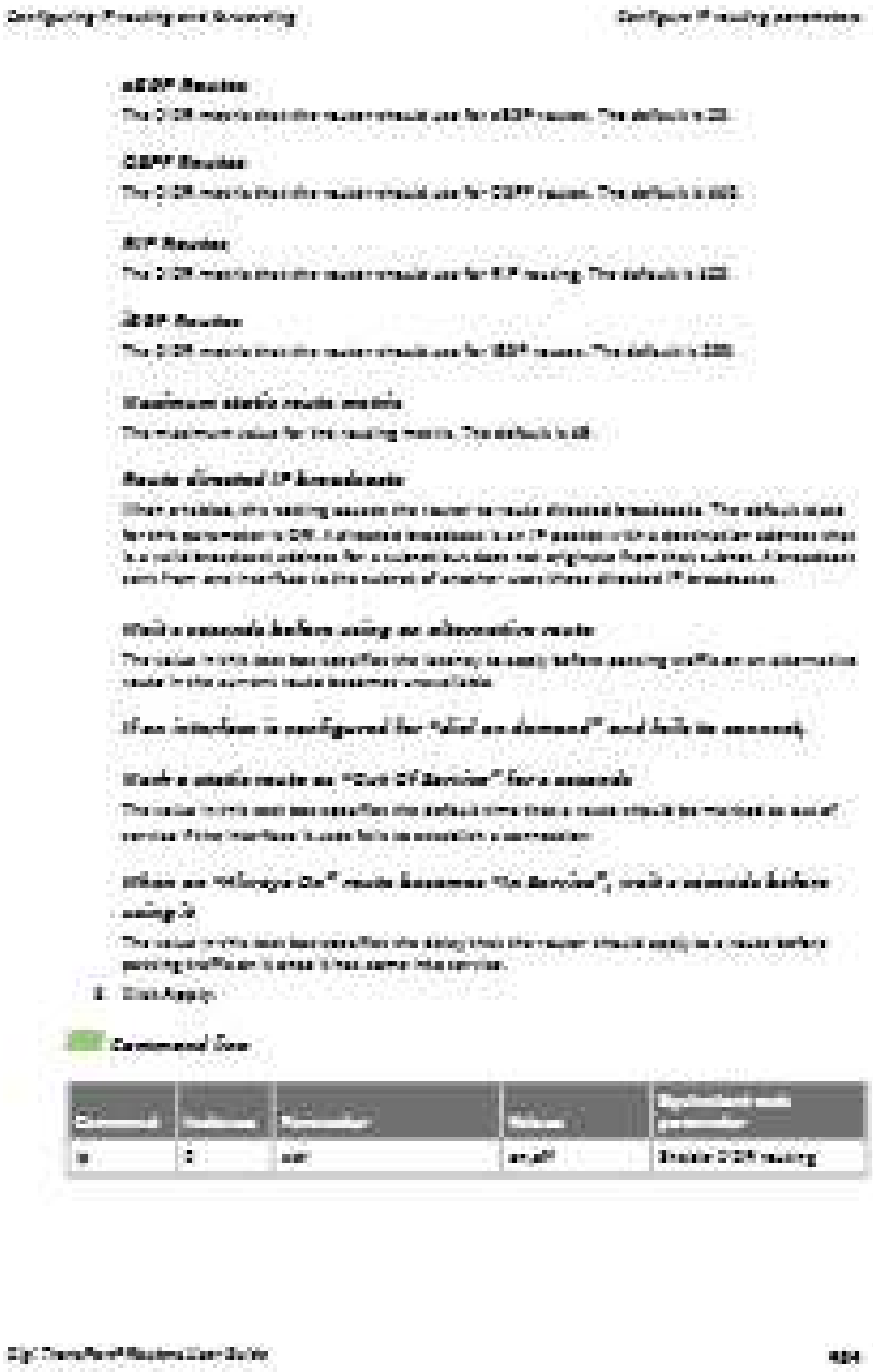
[illegible]

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[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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Configure static routes



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TESSOL Technical Library TS-TL-DGI-073

- Ethernet
- Tunnel

Use PPP subconfiguration

PPP subconfigurations are defined in the configuration of PPP interfaces. Use this option to specify the number of the desired subconfiguration to use on this route. This parameter will not appear on those models that do not support PPP subconfigurations.

Metric

The routing metric to use when this interface is connected. This should have a value between 1 and 15. The router uses this metric value when it has to decide which route to use when the routes for a packet's destination have different IP route metrics.

Each route can be assigned a connected metric and a disconnected metric. The connected metric parameter specifies the metric for a route whose interface is active. The disconnected metric specifies the metric for a route whose interface is inactive. Normally both values should be the same, but in some advanced routing scenarios it may be necessary to use different values.

For each route, a connectivity test can be made to see if the route is currently connected or not. This is done using out of service. The default and all services period is set by the IP route out of service parameter. These two values specify the default period that the router will wait between connectivity tests. In some circumstances, such as when a Frame Relay network has specified a different period. When a route is out of service, the router uses any alternative routes with matching metric first.

5. Click Apply.

Command Line

Command	Definition	Parameter	Value	Description
route	*	descr	Up to 32 characters	Description
route	*	dhcp	Valid IP address or host	Destination network or host
route	*	mask	Valid network mask	Mask or host
route	*	gateway	Valid IP address or host	Gateway
route	*	ipv4	Enter PPP IPv4 CLI	Interface cfg
route	*	ipv6	Enter PPP IPv6 CLI	Interface cfg
route	*	network	Enter PPP IPv6 CLI	Metric

Advanced Static Route parameters

Go to Configuration > Network > IP Routing/Tunneling > Static Routes > Routes (V4) > Route > Advanced

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[illegible]

[illegible]

[illegible]

Only queue one packet while waiting for the interface to connect

When enabled, the router enqueues only one packet while waiting for the interface to connect. When disabled, the router enqueues more packets.

When this route becomes available, deactivate the following interface as well

The interface specified by the value is removed from the pool of dependent interfaces and deactivated when this route becomes available again after being out of service. The router typically uses this feature to deactivate backup interfaces when the primary interface becomes available after being out of service. Select the required interface from the drop-down list and enter the interface instance number into the text box as usual.

When this route becomes unavailable, remove the "Out of Service" state as well

The interface and instance that should be taken out of the Out of Service state when the interface that this route is configured to use is deactivated. Available interface options are Serial, PPP, Ethernet, and Tunnel.

Keep this route in service for x seconds after DOS state is cleared

When enabled, the following text box is enabled (with an X if no longer disabled), allowing a value to be entered. The value specifies the period that the interface specified above will remain in service even though it is actually unable to pass traffic immediately. This is particularly useful in situations where a PPP interface is connecting and traffic should not only the main interface until one has been allowed a certain amount of time to come up. When this timer expires, if the interface is unable to pass traffic, it will be marked Out of Service and the next interface will be used.

Assign this route to redundancy group x

Assigns the route to a redundancy group. This means that if the router is in a particular redundancy group of routers, the out of service status is shared for all routers in that group. If one router in a group cannot reach the service, all routers with a lower priority (metric) also have their out of service status cleared.

Related CLI commands

Command Set

Command	Options	Parameters	Values	Equivalent web interface
route	x	metric	[illegible]	Use metric when the interface is not active
route	x	vrid	Valid IP address used	IP Address to check

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

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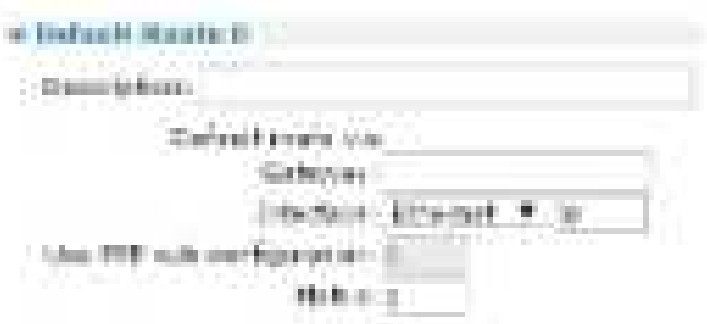


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Configure default IP routes

Web

1. Go to Configuration > Network > IP Routing/Tunneling > Static Routes > Default Route 0.



2. Configure the default route parameters.

Description

Assigns a user-defined and memorable description for the route.

Default route via:

Gateway address

Enter to override the default gateway IP address configured for the Ethernet interface. Packets matching the route will use the gateway address specified in the route rather than the address specified on the Ethernet interface configuration page. This parameter does not apply to routes using PPP interfaces.

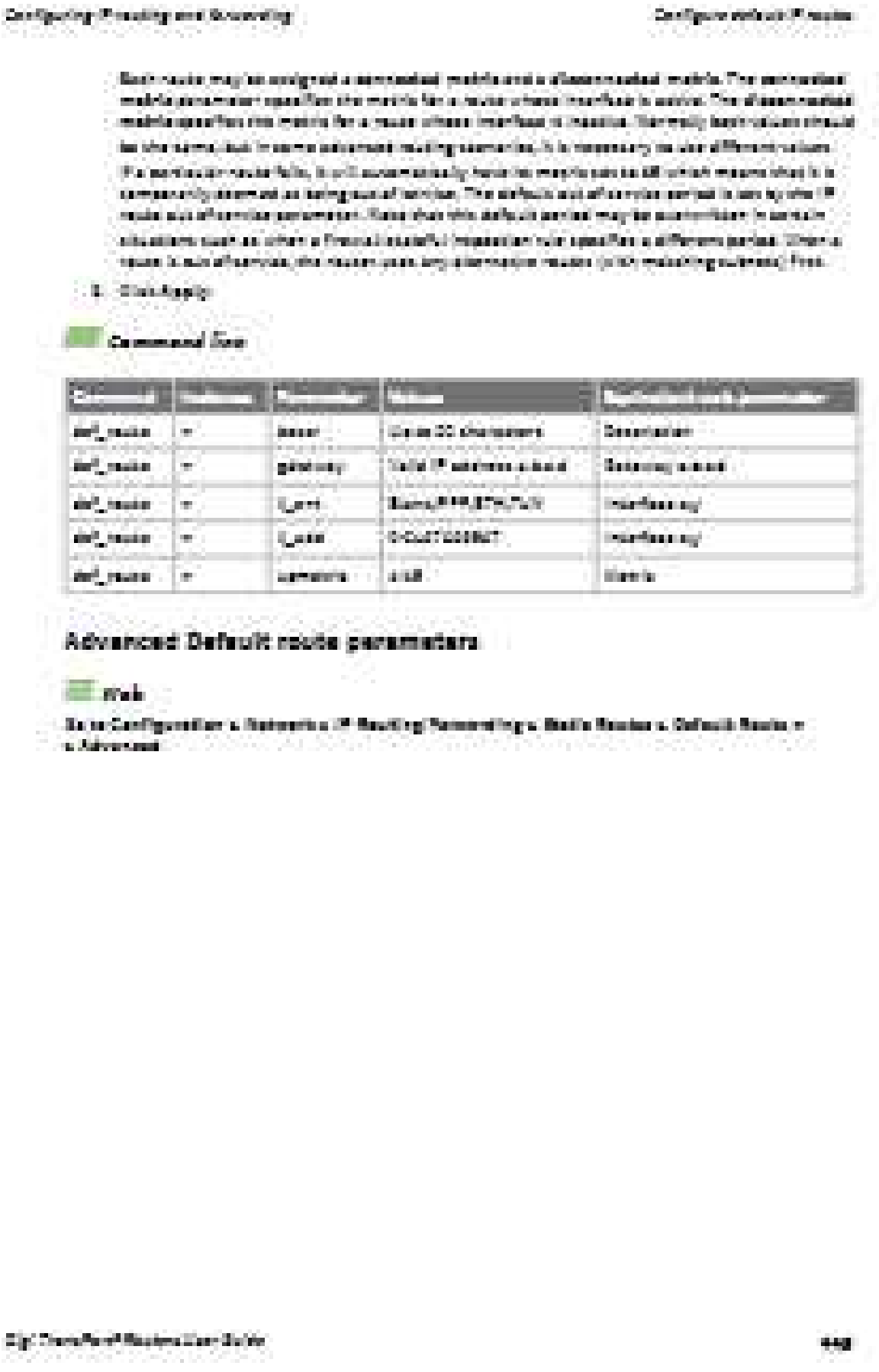
Interface and IP

The interface and interface number for routing the packets. Available options are:

- None
- PPP
- Ethernet
- Tunnel

Metric

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[illegible]

[illegible]

[illegible]

Only queue one packet while waiting for the interface to reconnect

When enabled, the router enqueues only one packet while waiting for the interface to reconnect. When unchecked, one router enqueues are available.

When this route becomes available, deactivate the following interface up/down

The interface specified by one value or more than one pair of interfaces (local and peer) will be deactivated when this route becomes available again after being out of service. The router typically uses this feature to deactivate backup interfaces when the primary interface becomes available after being out of service. Select the required interface from the drop-down list and enter the interface instance number into the text box as usual.

When this route becomes unavailable, remove the "Out Of Service" state on up/down

The interface and instance that should be taken out of the Out of Service state when the interface that this route is configured to use is deactivated. Available interface options are Serial, PPP, Ethernet, and Tunnel.

Keep this route in service for x seconds after DOS state is cleared

When enabled, the following text box is enabled (such as it is no longer disabled out), allowing a value to be entered. The value specifies the period that the interface specified above will remain in service even though it is actually unable to pass traffic immediately. This is particularly useful in situations where a PPP interface is switching and traffic should resume over the new interface until one has been allowed a certain amount of time to come up. When this timer expires, if the interface is unable to pass traffic, it is marked Out of Service and the next interface is tried.

Assign this route to resiliency group x

Used to assign the route to a resiliency group. This means that if the router in a particular resiliency group goes out of service, the out of service status is shared for all routes in that group. If one route in a group comes back into service, all routes with a lower priority (meaning one have a non-Out of Service status) are

Command line

ip4_route	x	metric	0-[illegible]	Use metric when the interface is available
ip4_route	x	mask	[illegible] IP address value	IP address mask
ip4_route	x	interface	[illegible] interface value	Destination
ip4_route	x	ping	ping[illegible]	Include this route in IP4 advertisements
ip4_route	x	domain2	ping[illegible]	Use PPP interface and the destination IP address when this route becomes available

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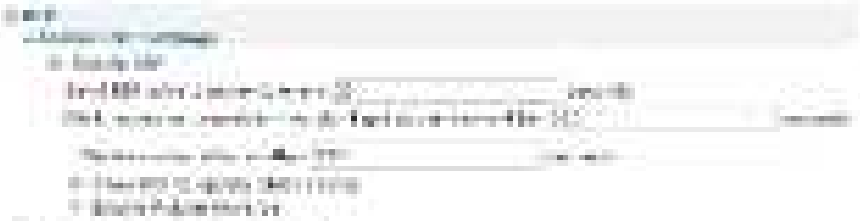
def_route	*	metric	0-2147483647	Metric for the interface.
def_route	*	auto_dly	0-255	Delay in seconds after power up before allowing this route to activate the interface.
def_route	*	connection	0-2147483647	Connection route as "Out Of Service" if the interface fails to connect after n consecutive attempts.
def_route	*	attempt_int	0-2147483647	If the interface fails to connect, try again in n seconds.
def_route	*	attempt_ dwell	0-2147483647	Deactivate the interface after n unsuccessful attempts.
def_route	*	dly_int	0-255 Default: 0	Do not activate the interface for this route for n seconds after the last activation attempt.
def_route	*	ip	any-ip	Only queue one packet while waiting for the interface to connect.
def_route	*	down_pri	Early/Late	When this route becomes available, deactivate the following interfaces by:
def_route	*	down_add	0-2147483647	When this route becomes available, deactivate the following interfaces by:
def_route	*	down_ mac	Early/Late	When this route becomes available, deactivate the following interfaces by:
def_route	*	down_ add	0-2147483647	When this route becomes available, deactivate the following interfaces by:
def_route	*	unmap_ vlan	0-2147483647	Keep this route in service for n seconds after DCD route is cleared.
def_route	*	ngroup	0-255	Assign this route to recovery group n.

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Configure Routing Information Protocol (RIP) settings

Configure global RIP Settings

Web



Enable RIP

Send RIP advertisements every x seconds

Delete routes after another x seconds

Allow RIP to update static routes

Enable Poison Reverse

Configuring Routing and Tunneling Configure Routing Information Protocol (RIP) settings

Command line

rip	#	enable	ena|dis	Enable RIP.
rip	#	interval	5-2147483647	Send RIP advertisements every x seconds.
rip	#	route	5-2147483647	Mark routes as unusable if you don't get advertisements for x seconds.
rip	#	rip2garbage	5-2147483647	Delete routes after x seconds.
rip	#	validateaddr	ena|dis	Filter RIP by source route.
rip	#	autosummary	ena|dis	Enable Route Summary.

Configure access lists

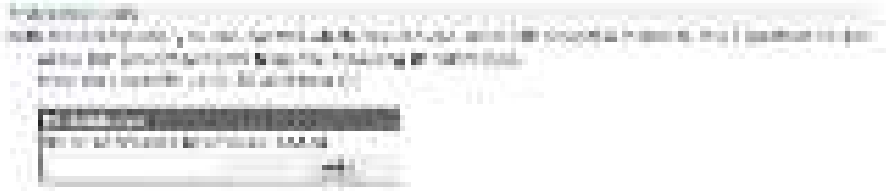
The router can modify route metrics based upon received RIP messages. Some routes and default routes have their metrics modified. Only routes for which are all the routes found within the RIP packet. For Ethernet routes, the gateway for the route will be set to the source address of the RIP packet. The route modifications will be enforced for GRE seconds, unless another RIP response is received within that time.

RIP packets must have a source address that is included in the RIP access list.

Using permitted IP addresses in the access list is controlled using a table with the simple parameters described below.

Web

Go to Configuration > Network > IP Routing/Tunneling > RIP > Static RIP Settings > Access Lists.



IP Address and mask

The IP address is the address in the list of IP addresses that RIP packets must come from. It may only be exactly these addresses. Up to seven IP addresses may be added. The Add and Delete buttons work in the usual way for configuration tables.

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Configuring Routing and Tunneling Configure Routing Information Protocol (RIP) settings

Command line

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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Configure RIP advertisements

Web

[illegible]



[illegible]

[illegible]

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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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Configure Open Shortest Path First (OSPF) parameters

[redacted]

Web

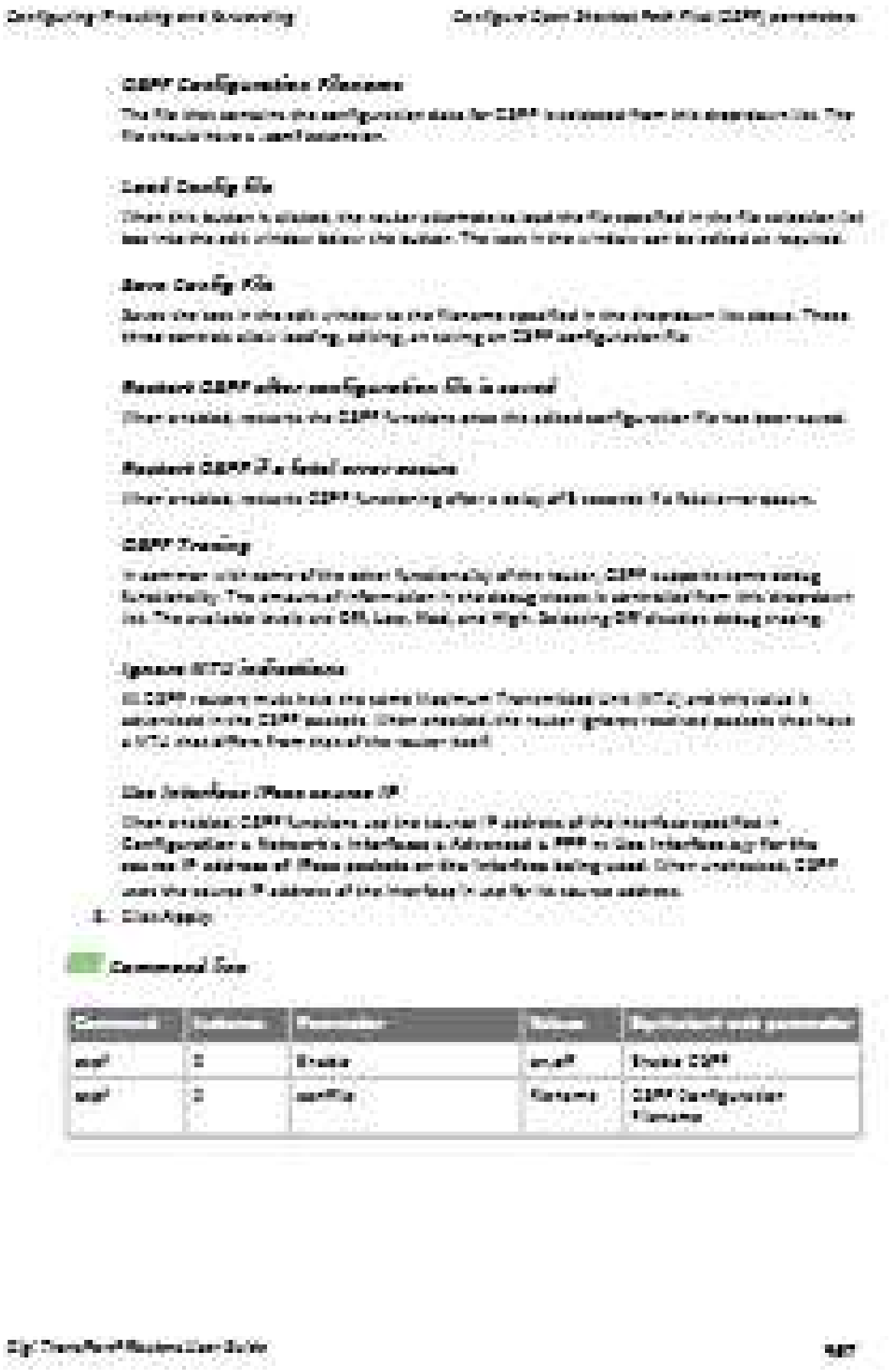
1. [redacted]



2. [redacted]

Enable OSPF

[redacted]



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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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Configure Border Gateway Protocol (BGP) settings

Web

1. Select Configuration > Network > IP Routing/Forwarding > BGP.

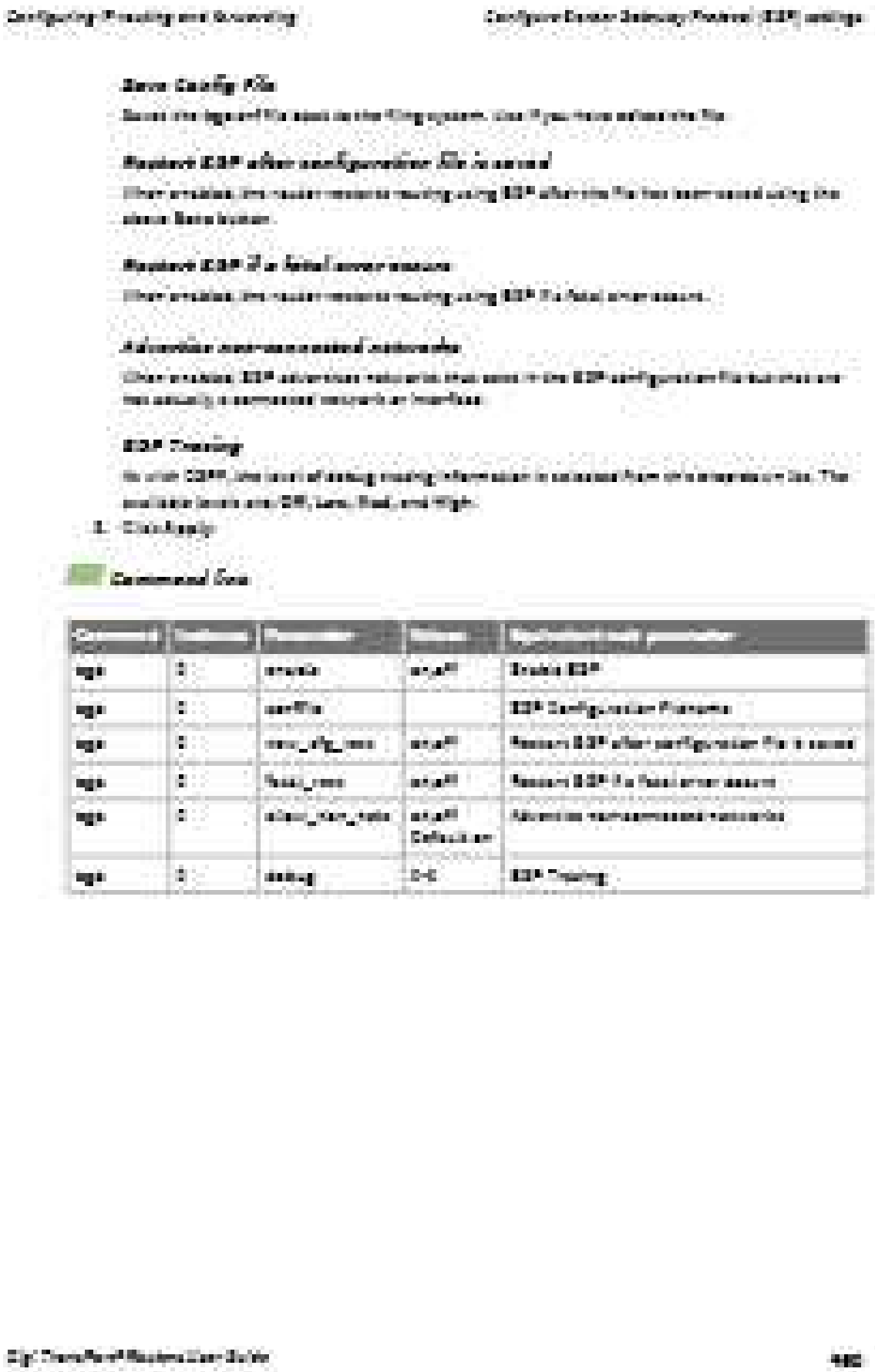


2. Configure the BGP parameters.

Enable BGP

BGP Configuration Filename

Load Config File



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Configure IP port forwarding and static NAT mappings



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Configure multicast routes

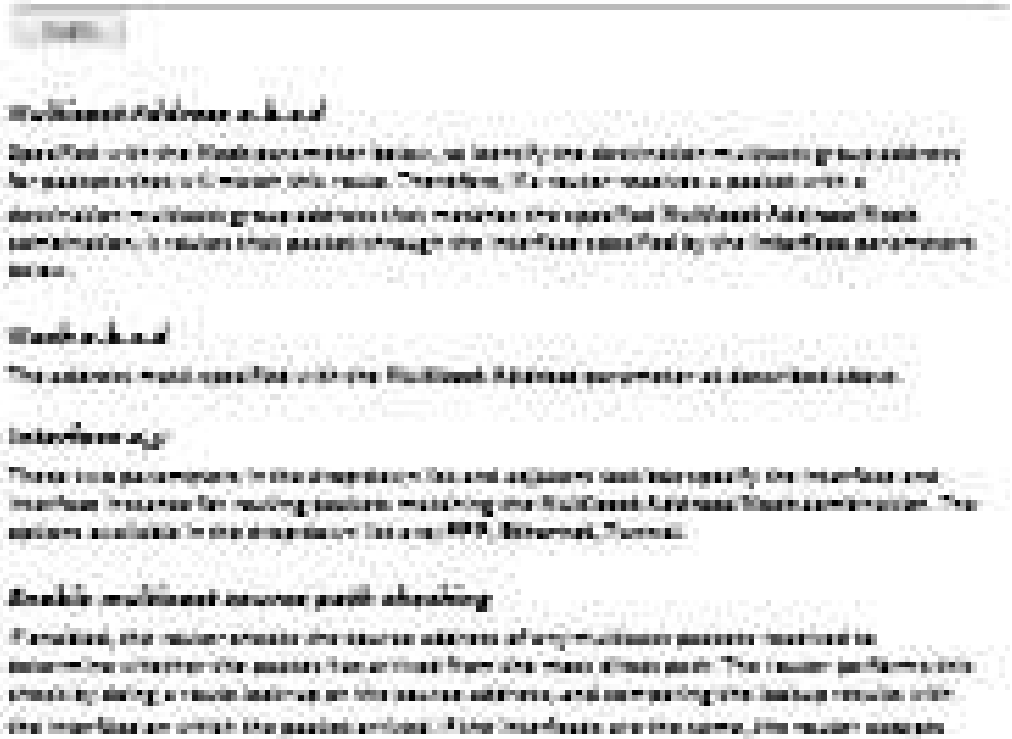
Digi TransPort routers support multicast routing, allowing them to route packets to multicast group addresses. You can configure up to 20 different multicast routes.

Use multicast routes in conjunction with the IGMP parameter on the ethernet interface. For example, after configuring a static multicast route for multicast traffic via PPP 1, the IGMP parameter in Configuration > Network > Interfaces > Ethernet must be set to On.

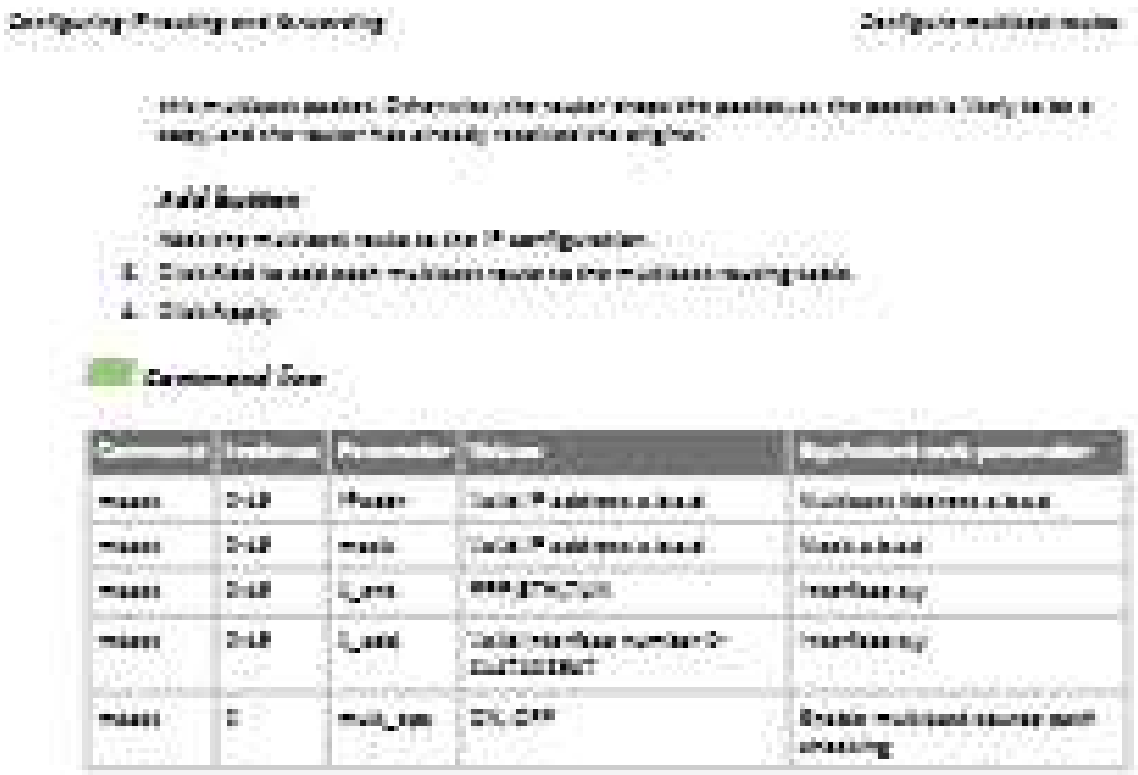
Web

1. Go to Configuration > Network > IP Routing/Forwarding > Multicast Routes.
2. Configure the multicast routing table by entering the following parameters.





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Configure Virtual Routing and Forwarding (VRF)

Support for Virtual Routing and Forwarding in the web and command-line interfaces

Web

Configure VRF for Ethernet interfaces

VRF

VRF Support

Configure VRF for GRE tunnel interfaces

VRF

Destination VRF



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Configuring Virtual Private Networking (VPN)

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Virtual Private Networks (VPNs)

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Configure Internet Protocol security (IPsec)



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About Internet Protocol Security (IPSec)

Benefits of IPSec

Protocols defined within IPSec

- IKE Internet Key Exchange protocol
- ISAKMP Internet Security Association and Key Management Protocol
- AH Authentication Header protocol
- ESP Encapsulating Security Payload protocol
- HMAC Hash Message Authentication Code
- MD5 Message Digest 5
- SHA-1 Secure Hash Algorithm

Cryptographic (encryption) algorithms include

- DES Data Encryption Standard
- 3DES Triple DES
- AES Advanced Encryption Standard (also known as Rijndael)

IPSec operation modes

- In transport mode, only the payload (but not the data contained) of the message is encrypted.
- In tunnel mode, the payload and the header and routing information are all encrypted thereby providing a higher degree of protection.

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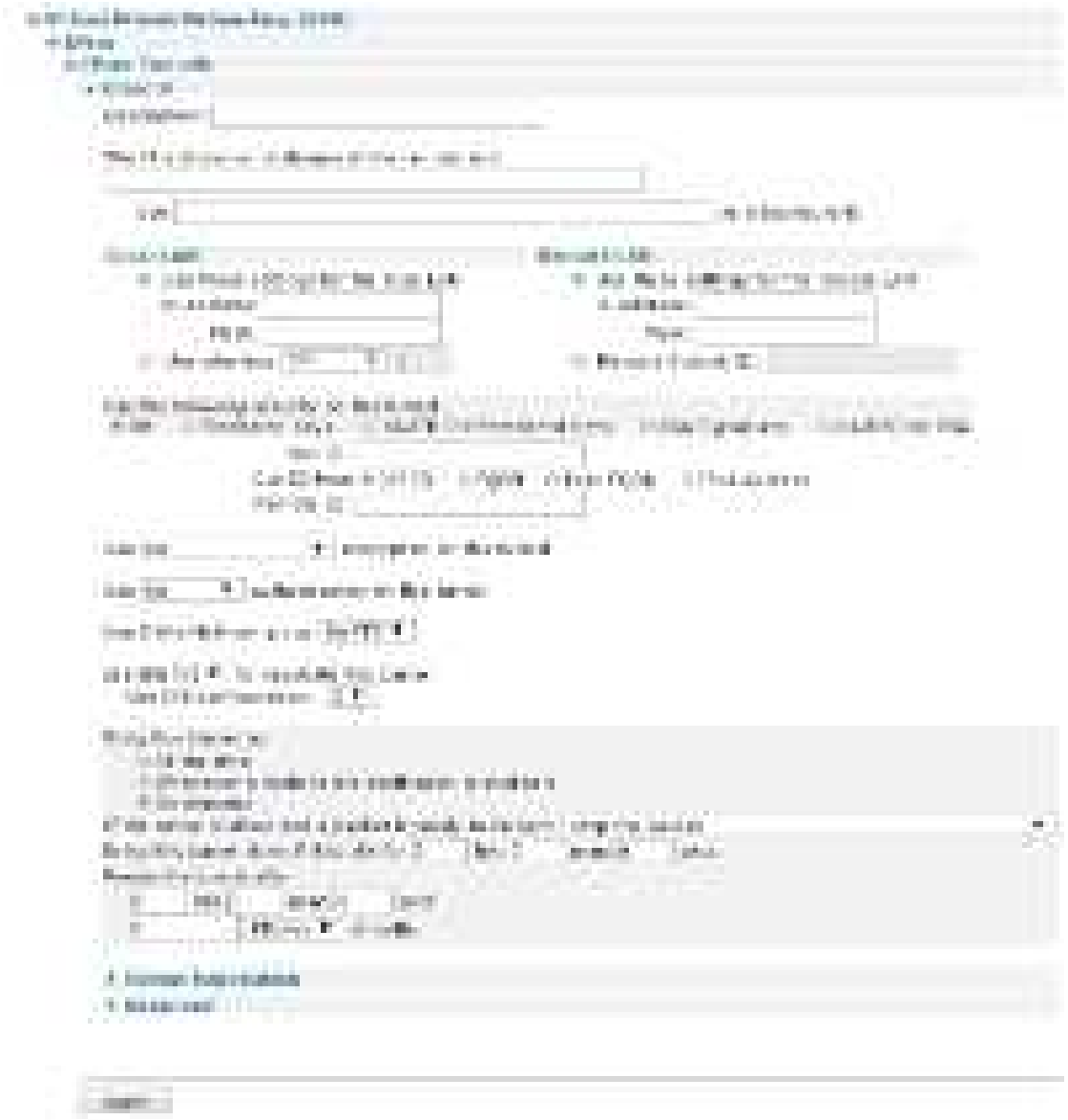


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Configure IPsec tunnels



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Pre-shared Keys	Requires that each IPsec peer share a secret key, or password, that can be matched by and verified by each peer. To configure this IPsec peer setting, first enable the Pre-shared Key setting, then enter the secret key in the Pre-shared Key field.
DSA Signatures	Select this option when the IPsec authentication will use DSA certificates.
RSA Signatures	Select this option when the IPsec authentication will use RSA certificates.

Our ID

When Aggressive mode is On, this parameter is a string sent to ID processors. It is sent to the remote peer to identify the initiator router in the request. You can use the variable %p in this parameter, which passes the router's serial number as its name. You can prefix the value with either text or %text. When using certificates, configure this parameter with the X.509 name in a valid certificate held on the router.

Our ID type

Defines how the remote peer is to process the Our ID configuration.

ID Type	Description
IKE ID	The Our ID parameter is a simple key ID (such as <pre1@test>).
FQDN	The Our ID parameter is a Fully Qualified Domain Name (such as myexample.com).
User FQDN	The Our ID parameter is a Fully Qualified Domain Name with a user element (such as [redacted]).
IPv4 Address	An IPv4 Address in dotted decimal notation.

Remote ID

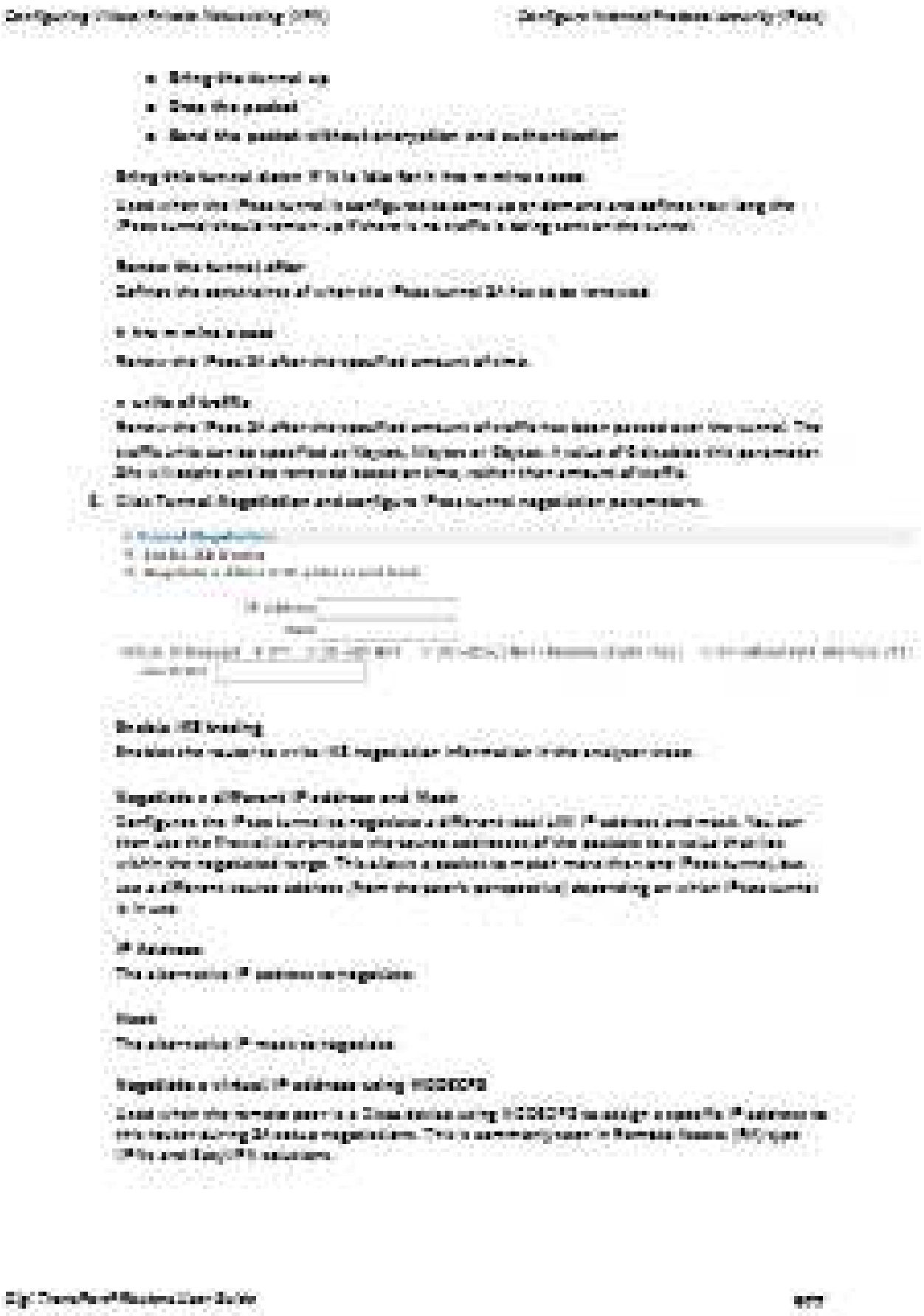
When Aggressive mode is On, this parameter is a string sent to ID processors that identifies the remote peer. This setting must use the same type as the Our ID parameter in the remote peer's configuration. When Aggressive mode is Off, this parameter must be the IP address of the remote peer.

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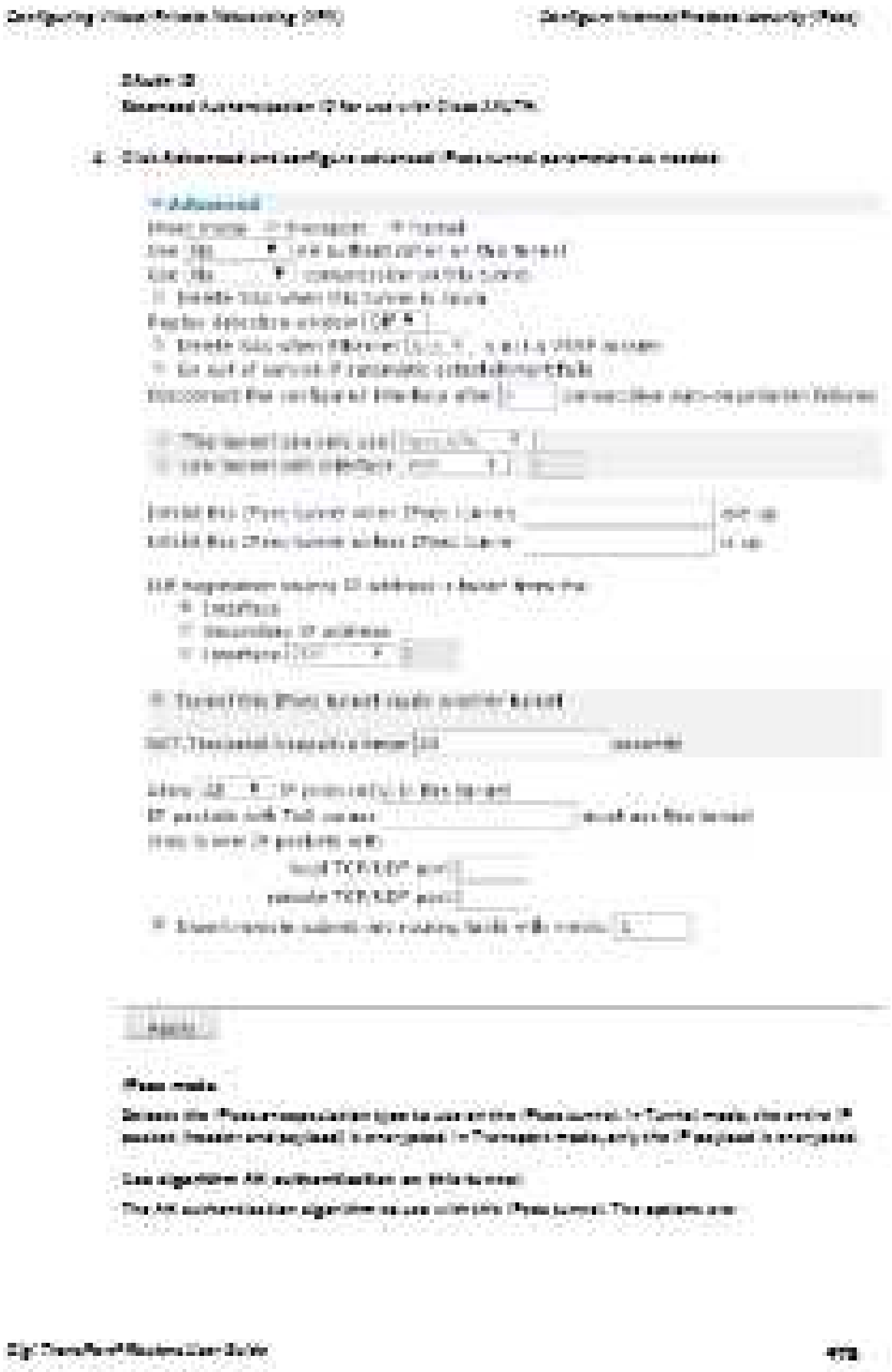
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Configure IPsec tunnel default action

Like a normal IP routing table, IPsec Tunnels have a default configuration that is applied if no specific tunnel can be found. This is useful when, for example, you want to have a number of remote users connect via a secure channel, but example, to access company financial information, but also still allow general remote access to other specific servers on your network or the Internet.

Web

1. Go to Configuration > Network > Virtual Private Networking > IPsec Tunnels > IPsec Default Action.

2. Configure the IPsec tunnel default action parameters:

   When a packet is received which does not match any IPsec tunnel:

   Use the router response if a packet is received when there is no SA:

   a. Drop the packet: Reject any packets that match a specified IPsec tunnel and discard all other data. This has the effect of offering a secure connection to all devices behind the router.

   b. Pass the packet: Decrypt and authenticate all packets that match an IPsec tunnel, depending on the IPsec tunnel's configuration. Data that does not match is also allowed to pass.

   When a packet is to be transmitted which does not match any IPsec tunnel:

   Use the router response if a packet is transmitted when there is no SA:

   a. Drop the packet: Reject any packets that match a specified IPsec tunnel and discard all other data.

   b. Pass the packet: Decrypt and authenticate all packets that match an IPsec tunnel, depending on the IPsec tunnel's configuration. Data that does not match is also allowed to pass.

3. Click Apply.

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Configure IPsec groups

IPsec groups are supported on ConnectPort X4/X2 models only.

You can use IPsec groups when the router is terminating tunnels to a large number of remote devices, such as using the router as a VPN Concentrator. To simplify the use of the configuration file in the router and also to maximize ease of configuration, only the information for all tunnels is stored on the router. All other information that is the same for all tunnels is stored in a MySQL database. This means the number of tunnels that can be configured is limited only by the SQL database size and performance. This will be typically millions of tunnels, depending upon the operating system and hardware of the MySQL PC. The number of tunnels that can be connected or concurrently are much smaller and limited by the model of the router.

- The router with the IPsec Security/SQL configuration is the VPN Concentrator.
- The remote sites normally do not require an IPsec group configuration as they normally need to connect to a single peer only, the VPN Concentrator.
- The VPN Concentrator normally need a single IPsec group configured only.
- The local and remote subnet parameters must be set up wide enough to encompass all the local and remote networks.
- The VPN Concentrator can act as an initiator and/or a responder. In situations where there are more remote sites than the router can support concurrent sessions, it is normally necessary for the VPN Concentrator and the remote sites to be set up as initiator and a responder. This is so both the remote sites and the headend can manage the IPsec session when required.
- It is also important to configure the IPsec tunnels so they will not overlap or IPsec sessions for other sites. In the case of the VPN Concentrator acting as an initiator, when it receives a packet that matches the main IPsec tunnel, IPsec Security Associations already exist, it looks up the required parameters in the database.
- The router then creates a dynamic IPsec tunnel consisting of the settings from the base IPsec tunnel and the information retrieved from the database.
- At this point, KB creates the normal IPsec security associations as normal.
- The dynamic IPsec tunnel continues to exist until all the IPsec Security Associations are removed.
- When the maximum supported (or licensed) number of tunnels has been reached by the router, the oldest Dynamic IPsec tunnels (those not in use for the longest period of time) and their associated IPsec Security Associations are dropped, to allow new inbound VPN connections.

Login flow for creating IPsec SAs

VPN Concentrator acting as Initiator

The VPN Concentrator normally acts as an initiator when it receives an IP packet for routing with a source address matching the IPsec tunnel local subnet address & mask and a destination address matching the remote subnet address & mask, provided an IPsec SA does not already exist for this data.

1. When IPsec group is configured to use the matching IPsec tunnel, the router uses a MySQL query to obtain the site specific information in order to create the SAs.

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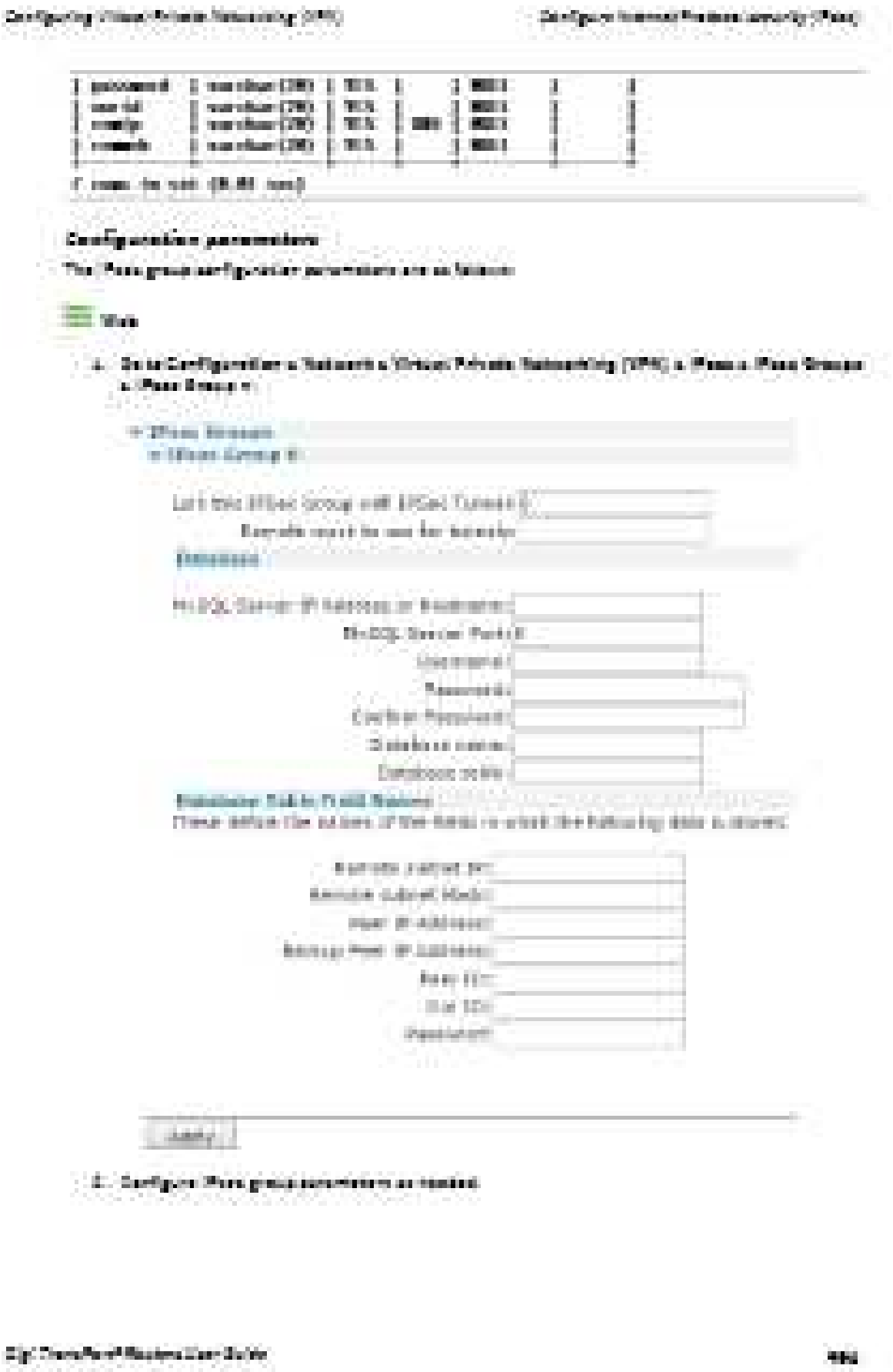
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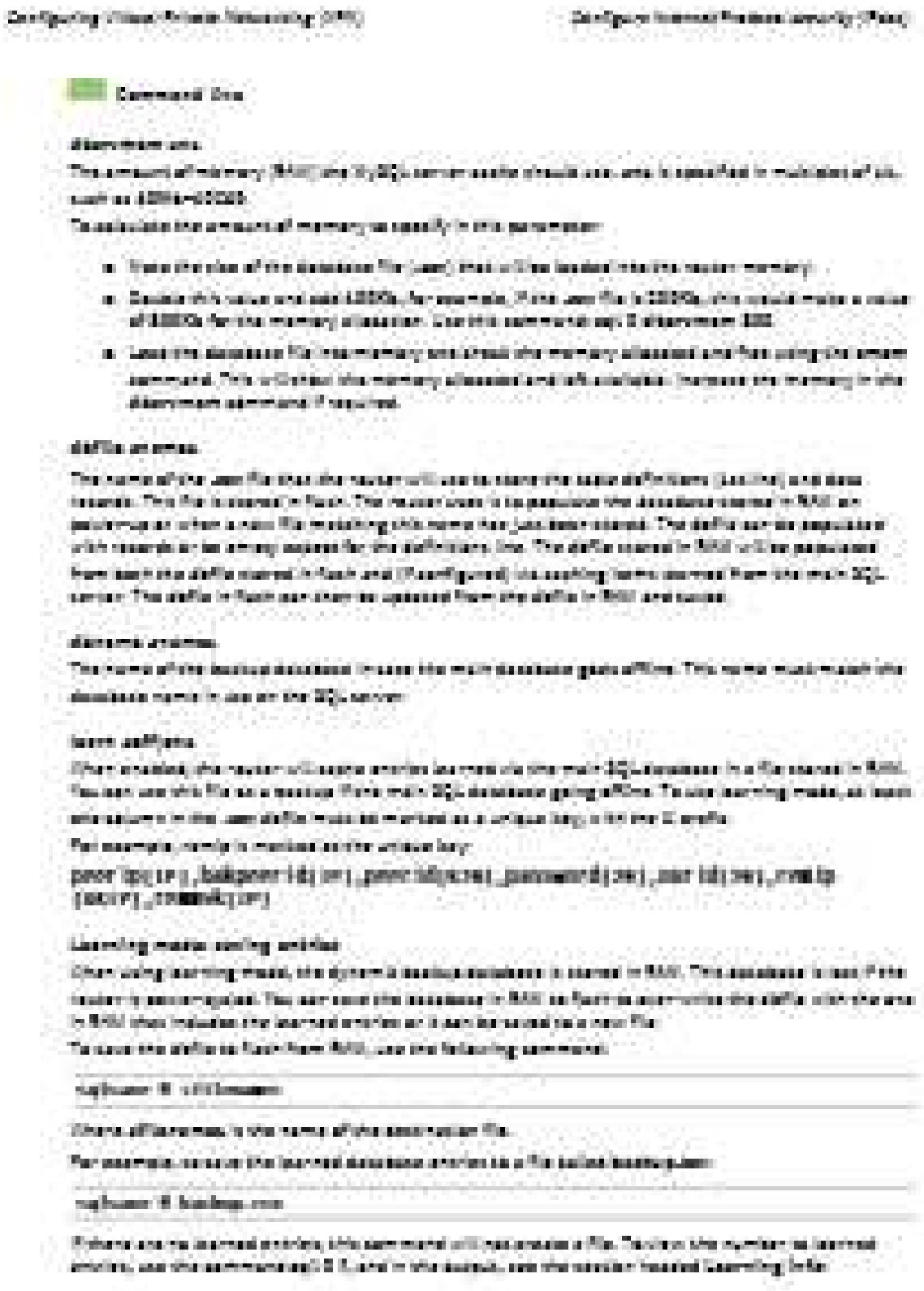
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Configure Dead Peer Detection (DPD)

1. Go to Configuration > Network > Virtual Private Networking (VPN) > Phase 1 Dead Peer Detection (DPD).

2. Configure Dead Peer Detection parameters.

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Configure Internet Key Exchange (IKE)

IKE Debug parameters

Web

4. Go to Configuration > Network > Virtual Private Networking (VPN) > Phase 1. The Configuration > Network > Virtual Private Networking (VPN) > Phase 1 page displays configuration pages for Internet Key Exchange (IKE) versions IKE 1 and IKE 2, and a separate page for IKE Responder. The IKE 1 Initiator can serve as an IKE Initiator or as an IKE responder, while IKE 2 can serve as an Initiator. Use the IKE 1 and IKE 2 pages to set up the IKE 1 and IKE 2 Initiator parameters as required. The IKE Responder page configures the responder parameters for IKE 1.



5. Configure IKE parameters.

Enable IKE Debug
Enables IKE debugging to be displayed on the debug page.

Debug Level
Sets the level of IKE debugging. The options are:

- Low
- Medium
- High
- Very High

Debug IP Address Filter
Used to filter the IKE packets with particular source or destination IP addresses. The format of this parameter is a comma separated list of IP addresses. For example, to exclude the capture of IKE traffic from IP hosts [illegible] and [illegible], enter [illegible] for this parameter.

Commonly, you may only want to capture traffic to and from particular IP hosts. To do this, use a [illegible] before the list of IP addresses. For example, to only capture packets to and from IP hosts [illegible], enter [illegible] for this parameter.

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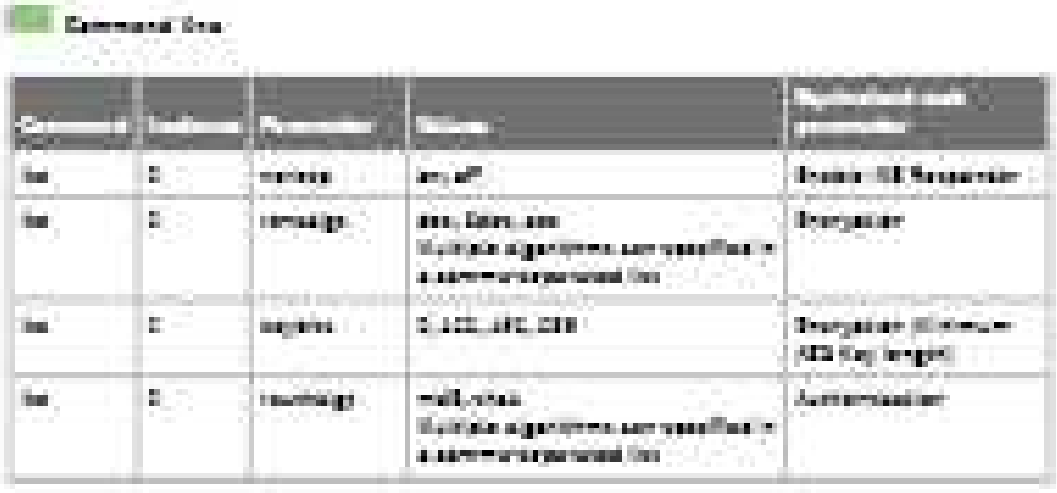


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Configure IKEv2

Web

1. [illegible]



2. [illegible]

Use the following settings for negotiation:

The settings for the IKEv2 negotiation:

Encryption

The encryption algorithms. The options are Auto, 3DES, DES, AES (128 bit key), AES (192 bit key), AES (256 bit key).

Authentication

The authentication algorithms. The options are Auto, MD5, SHA1, SHA256.

PRF Algorithm

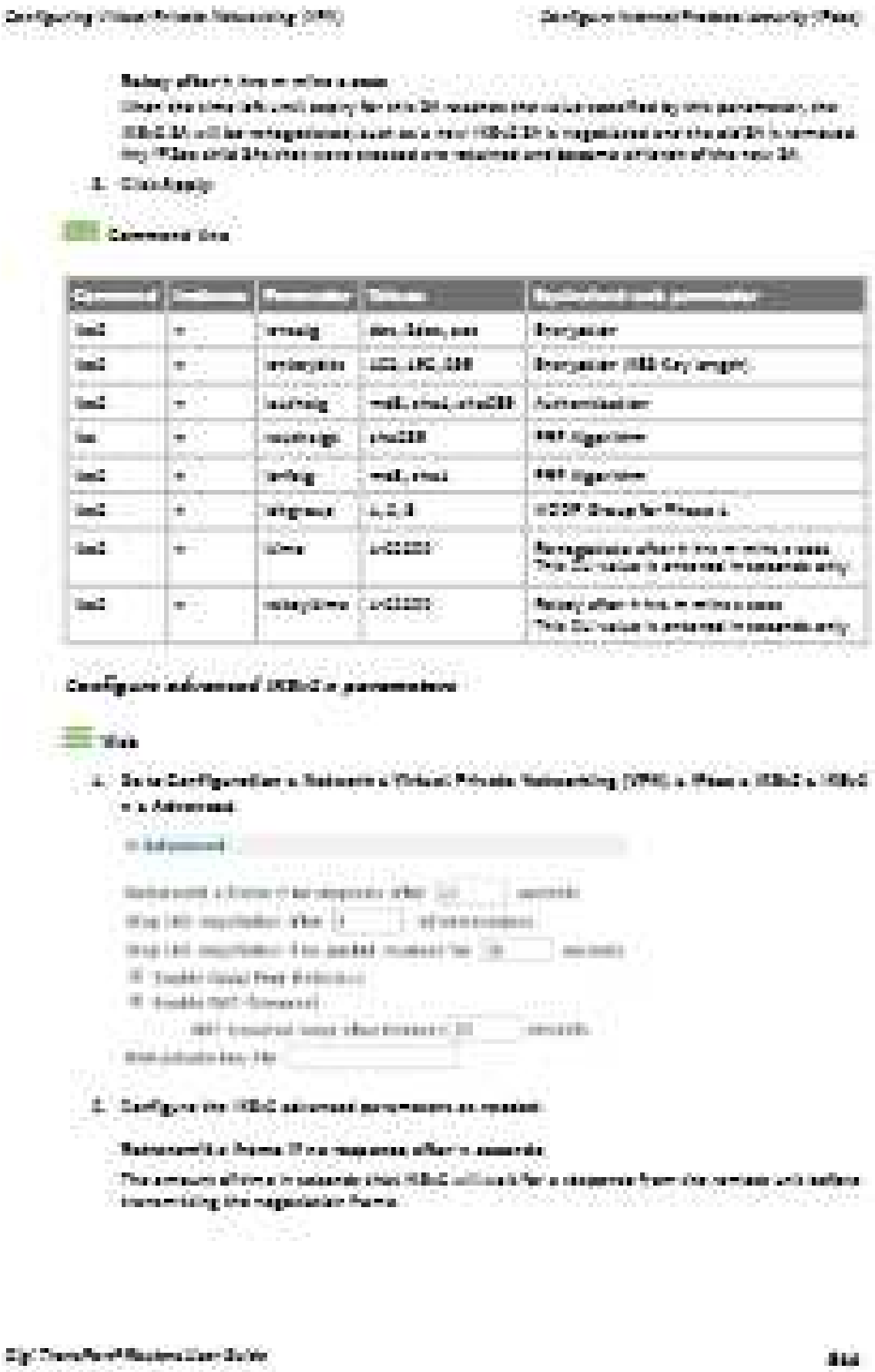
The PRF (Pseudo Random Function) algorithms. The options are MD5 and SHA1.

DH Group for Phase 1

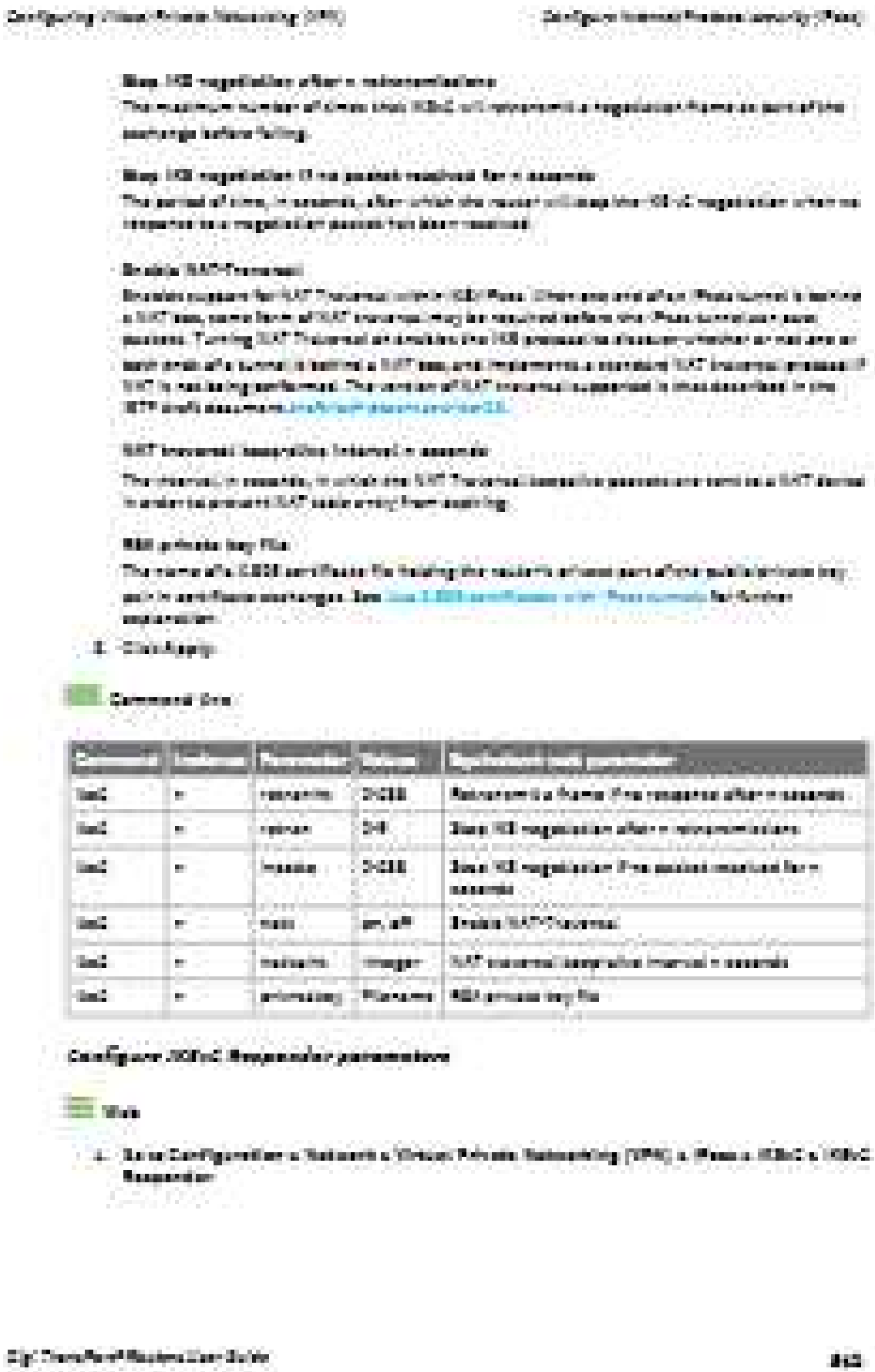
Sets the key length for the IKE Diffie-Hellman exchange to 768 bits (group 1) or 1024 bits (group 2). Normally this option is set to group 2 and this is sufficient for normal use. For particularly sensitive applications, you can increase security by selecting group 5 to provide a 1536 bit key length. Note however that this will greatly slow the process of generating the phase 1 session keys (typically from 4-5 seconds for group 2, up to 45 seconds).

Renegotiate after n kilobytes sent

Rekeying the initial IKEv2 Security Association will occur in Kbytes. Once it expires, any subsequent packets to the remote system will result in IKE renegotiating to establish a new SA.



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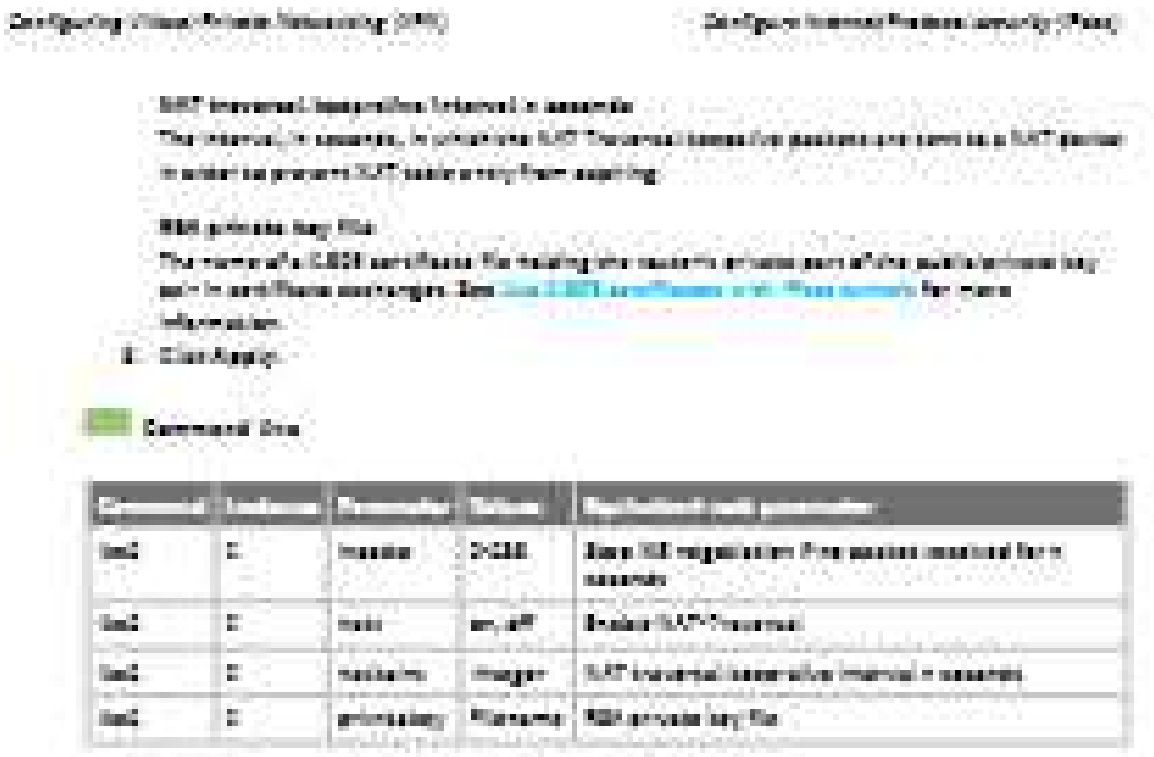
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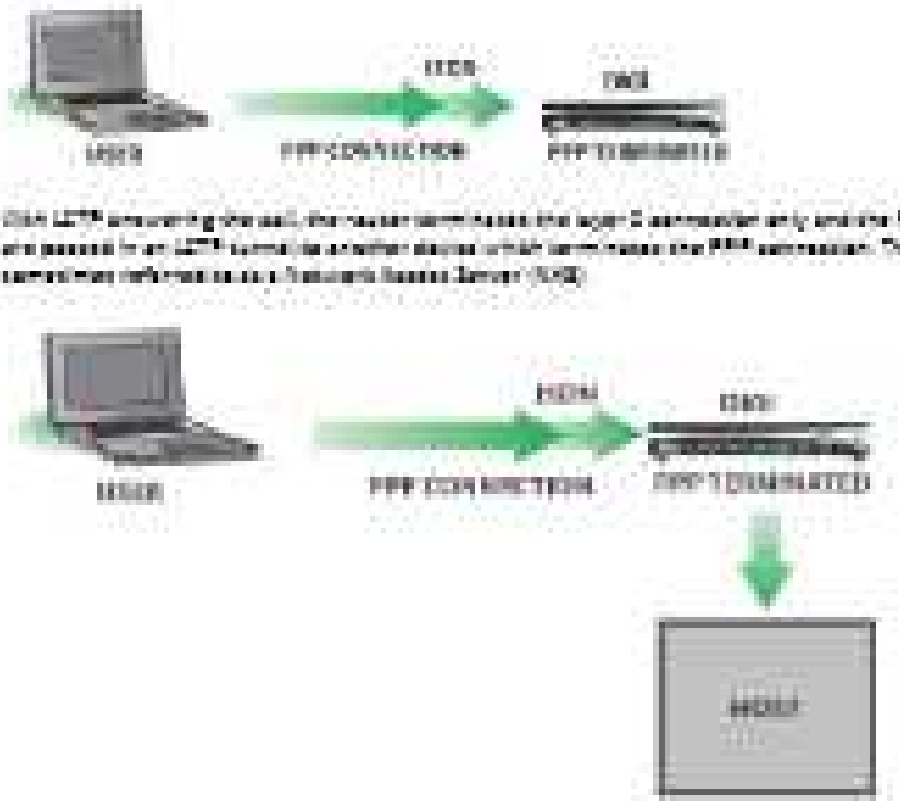


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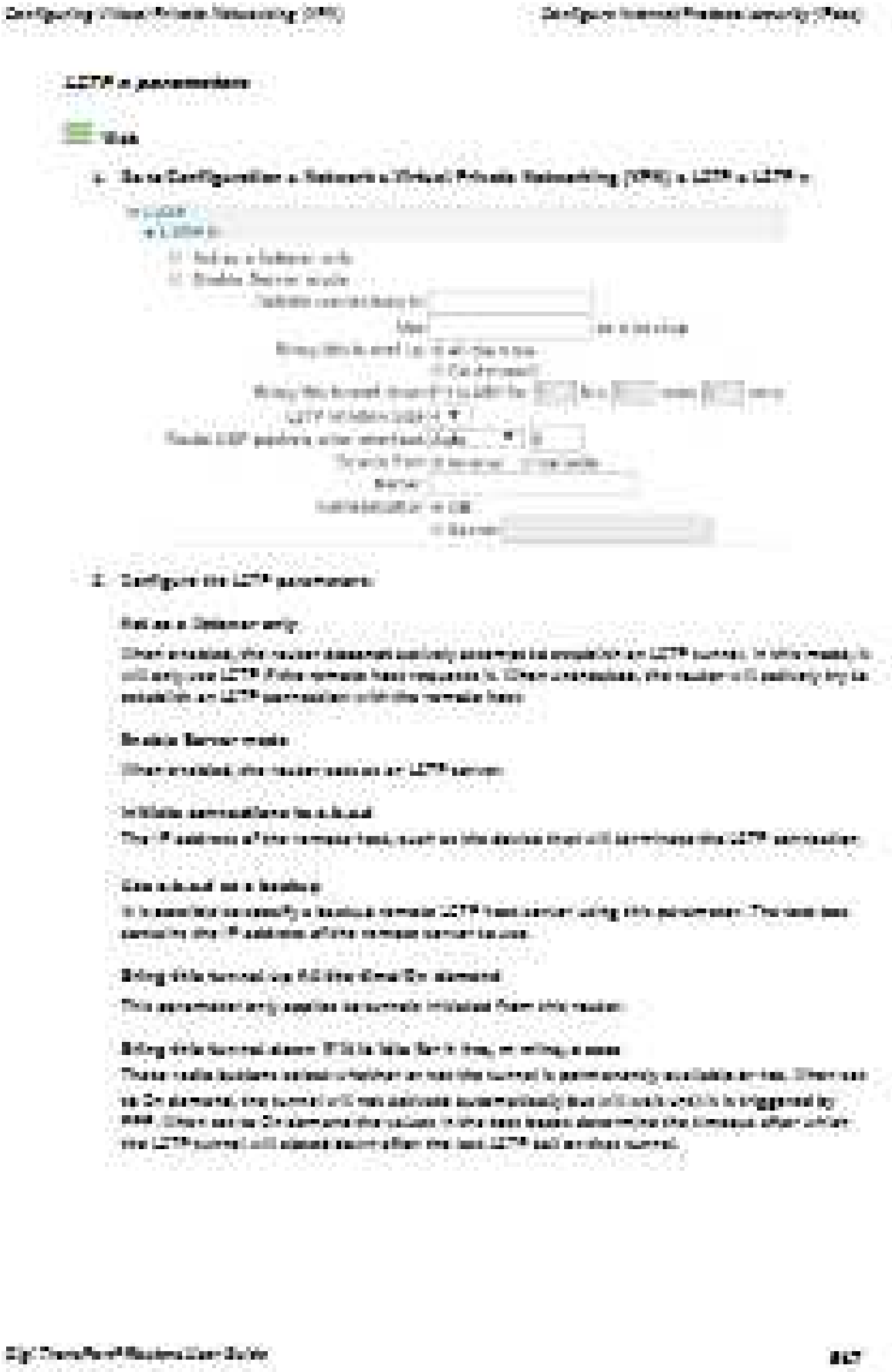


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Configure Layer 2 Tunneling Protocol (L2TP)



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Use X.509 certificates with IPsec tunnels

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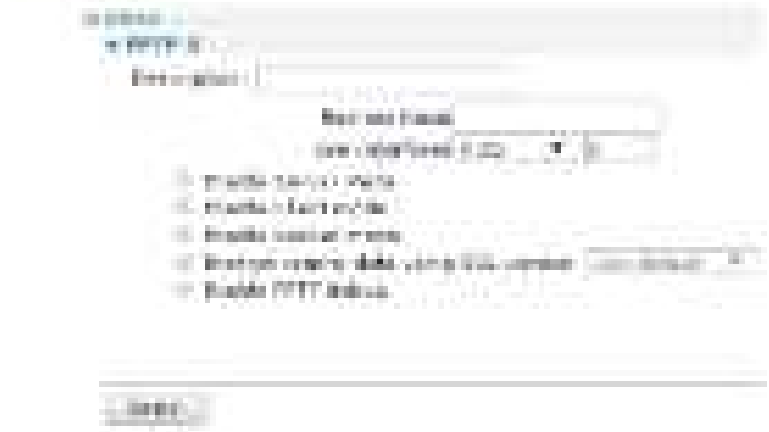
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Configure Point-to-Point Tunneling Protocol (PPTP)





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[redacted]

Accept incoming HTTP connections

[redacted]

Enable Server mode

[redacted]

Enable Socket mode

[redacted]

Encrypt control data using SSL version n

[redacted]

- [redacted]
- [redacted]
- [redacted]

Enable HTTP debug

[redacted]

1. [redacted]

Command line

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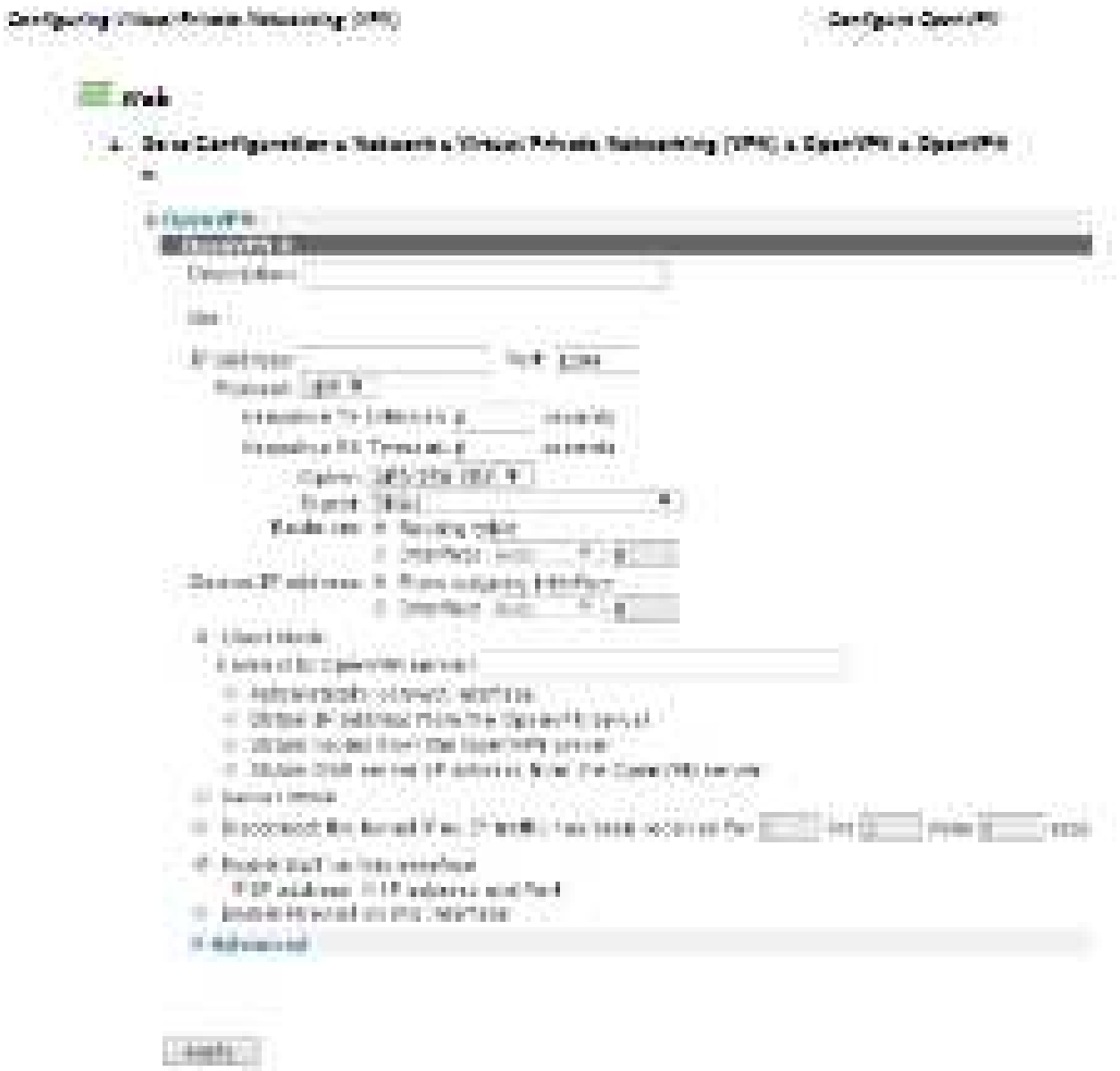
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Configure OpenVPN



Additional information on OpenVPN configuration

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Debug

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Command Line

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Supported Cipher and Digest values for OpenVPN

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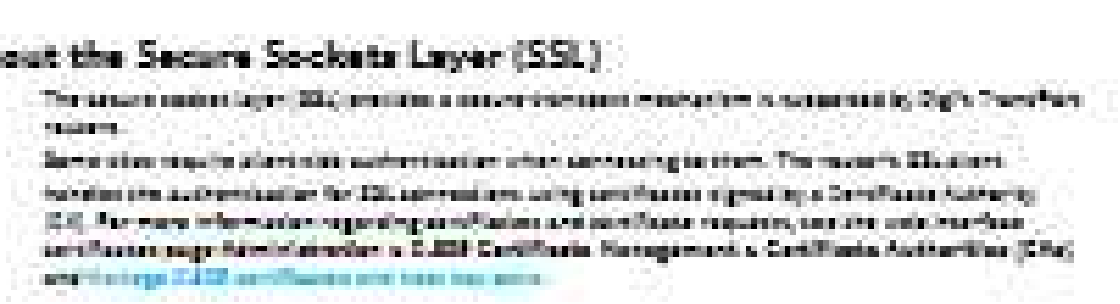
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Configuring Secure Sockets Layer (SSL)

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About the Secure Sockets Layer (SSL)



Configure the SSL server

Web

1. Go to Configuration > Network > SSL. The SSL Server section of the page describes the parameters required to configure the SSL server.



2. Configure the SSL server parameters.

Server Certificate Filename

The file containing the server certificate is selected from the dropdown list.

Client Private Key Filename

The file containing the private key that matches the above certificate is selected from the dropdown list.

SSL Version

The version of the SSL protocol to use, selected from the dropdown list. Selecting Any allows the use of any version. The available options are:

- Any
- TLSv1 only
- SSLv3 only

Allow Insecure Ciphers

Allow use of insecure Cipher Block Chaining (CBC) based ciphers. The default value is On.

Cipher List

The list of ciphers is the same as described above for the command config server ssl.

Verify Certificate

Determines if and how the SSL server verifies peer certificates.

- Set The SSL server does not verify peer certificates.
- Set The SSL server should verify the peer certificate if one is available.
- Set Verify peer. The SSL server checks certificates always (not before, not after).

Certificate Required

When checked, sets that requires client to [illegible] peer does not supply a certificate.

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Configure SSL clients

Web

1. Go to Configuration > Network > SSL. The SSL Clients section of the page has a table with columns and parameters as follows:



2. Configure the SSL client parameters.

SSL Client

Select the SSL client to be associated to the system.

Client Certificate Filename

The name of the required certificate file to be loaded from those available on the system's file system from the drop-down list.

Allow Insecure Ciphers

Allow use of insecure Cipher Block Chaining (CBC) based ciphers. The default value is On.

Client Private Key Filename

The name of the file that contains the private key that matches the public key stored in the client certificate, as loaded from the drop-down list.

Cipher List

The cipher list in this text box is a list of one or more cipher strings separated by colons. Commas or spaces are also accepted as separators but colons are normally used. The actual cipher string can take several different forms. In its simplest form it is a single cipher suite such as RC4-SHA. It can represent a list of cipher suites containing a certain algorithm or cipher suites of a certain type. For example, SHA1 represents all cipher suites using the SHA1 digest algorithm, DES represents all cipher suites using DES encryption. Lists of cipher suites can be combined in a single cipher string using the + character. This forms the logical AND operation. For example, SHA1+DES represents all cipher suites containing SHA1 and DES algorithms. If left empty, system uses default cipher list.

For more information see

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Apply for Destination IP Address

Since the configuration of multiple SSL destinations, each having a different certificate key pair, is the case, this parameter will apply the SSL client settings to a specific IP address. If this parameter is left blank, the router uses the configured SSL client settings for any connection that requires SSL. As is usual with the tables on the configuration web pages, the remove and operation parameters are displayed and the Add button on the right-hand side is utilized to add the entry into the table. Once an entry has been added, it can be removed by clicking the Delete button in the right-hand column.

Reject Self-Signed Certificates

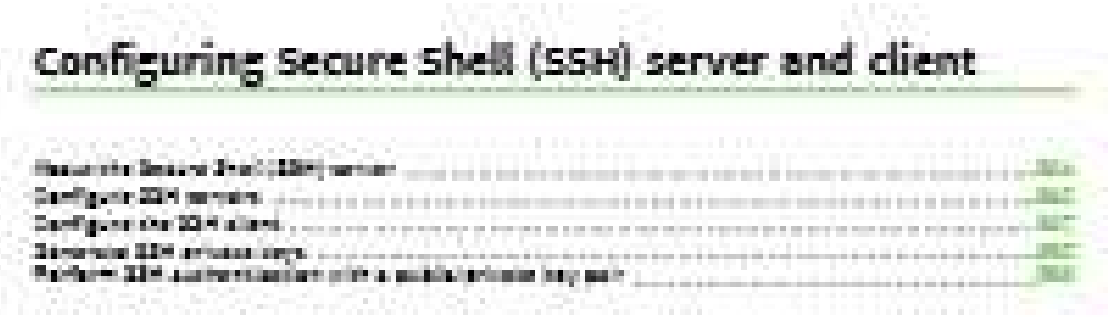
If enabled, a self-signed certificate received from the remote peer will be rejected unless a copy of the certificate exists on the router's local flash memory. The file must be named as per usual. Client certificates are used for SSL VPN client/server sessions, which is to prefix the name with ssl-, and use the extension .pem or .der. If enabled, the router accepts self-signed certificates whether or not a local copy of it exists.

8. Click Apply.

Command Line

Command	Parameters	Parameter	Values	Default Value (if any)
ssl	SSL	certfile	Up to 63 characters (SSL 3.0 format)	Client Certificate Filename
ssl	SSL	keyfile	Up to 63 characters (SSL 3.0 format)	Client Private Key Filename
ssl	SSL	cipherlist	Up to 63 characters (SSL 3.0 format)	Cipher List
ssl	SSL	measure	on | off	Allow Measure Options
ssl	SSL	dhcp	Valid IP address	Apply to Destination IP Address

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About the Secure Shell (SSH) server

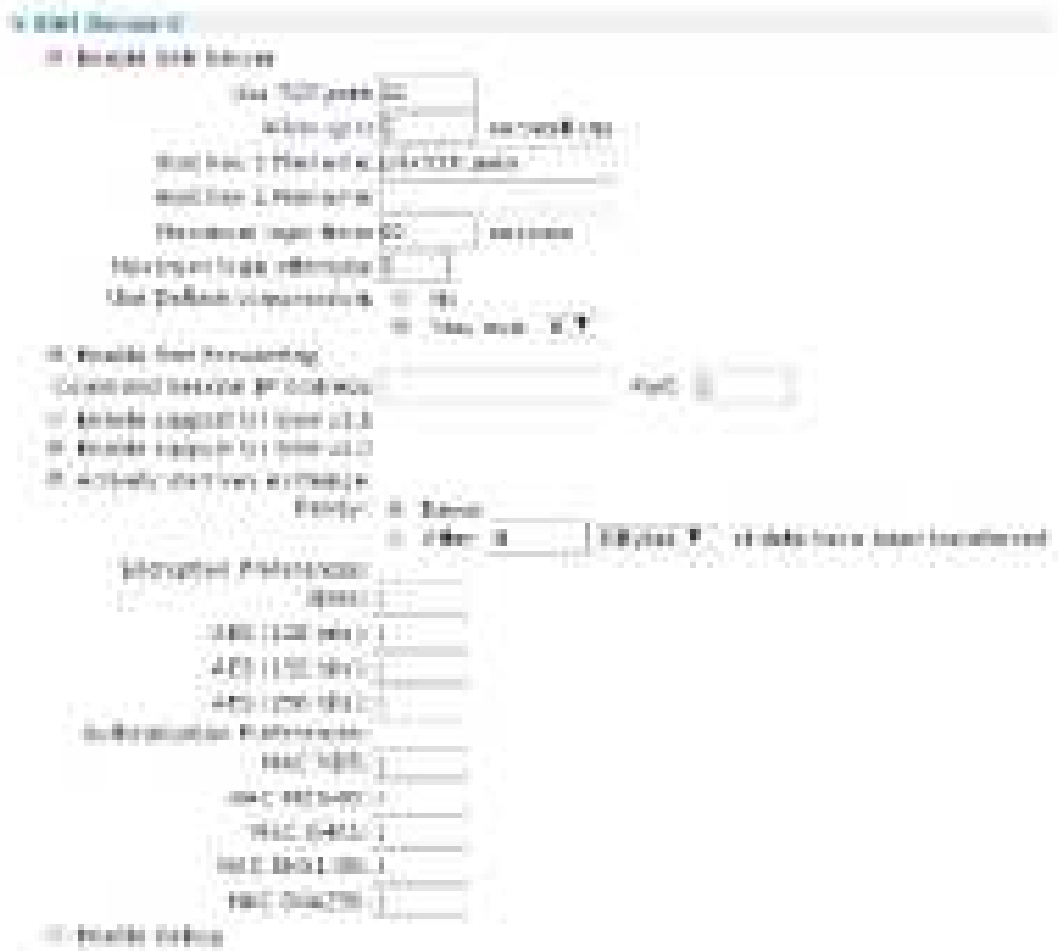


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Configure SSH servers

Web

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3. [illegible]

Enable SSH Server

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Enable Debug

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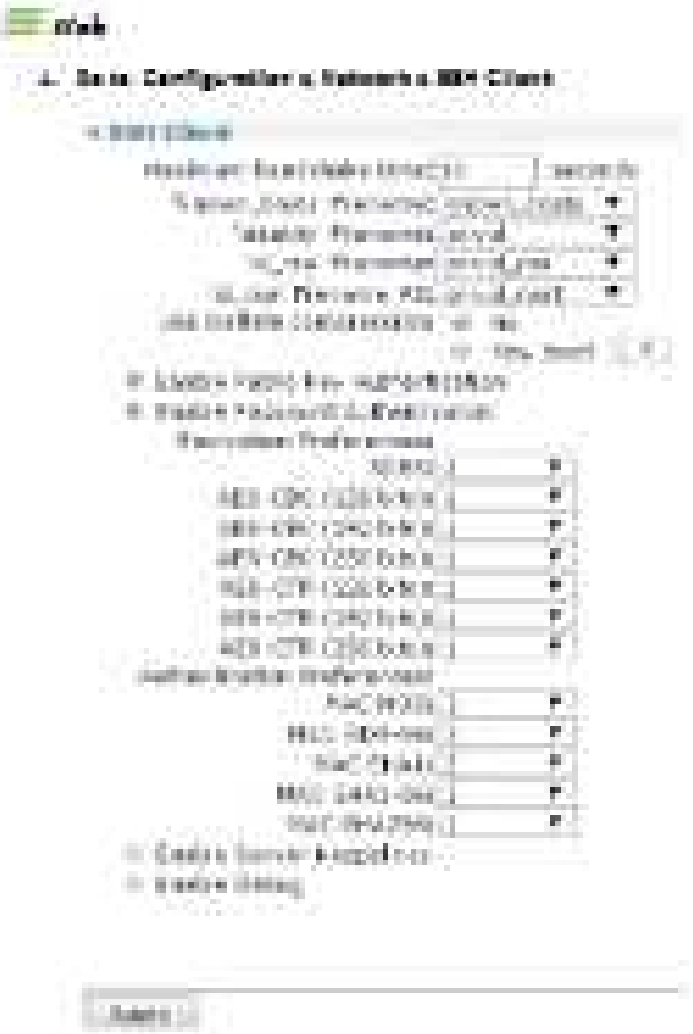
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Configure the SSH client



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Generate SSH private keys

Web

Command line

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Perform SSH authentication with a public/private key pair

Configuring FTP Relay





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Configure FTP Relay

Configure FTP Relay agents

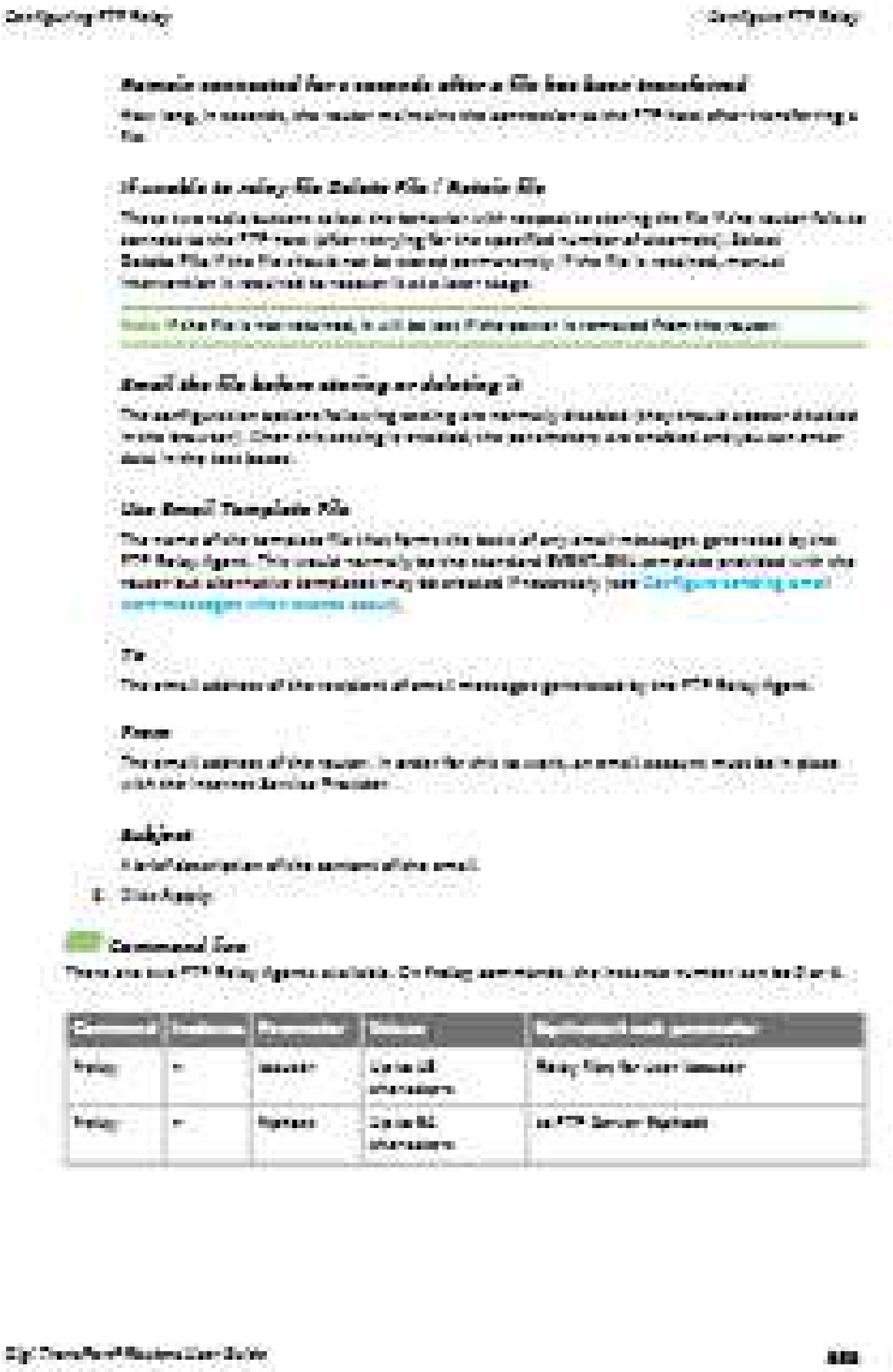
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Configure Advanced FTP Relay parameters

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Configure an SMTP client, as needed

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Configuring IP passthrough

Configure IP passthrough

Web

1. Go to Configuration > Network > IP Passthrough

2. Configure IP passthrough parameters

Enable IP Passthrough

Disable IP passthrough mode

Local Interface

The local interface on which the local PC is connected, either an Ethernet or PPP connection.

WAN PPP Interface

The PPP interface that will share its IP address with the local PC.

Ethernet DHCP Mode

Select the mode of operation for the passthrough functionality. The available options are

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Configuring UDP echo



Configure a UDP echo client

Web

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Enable UDP Echo

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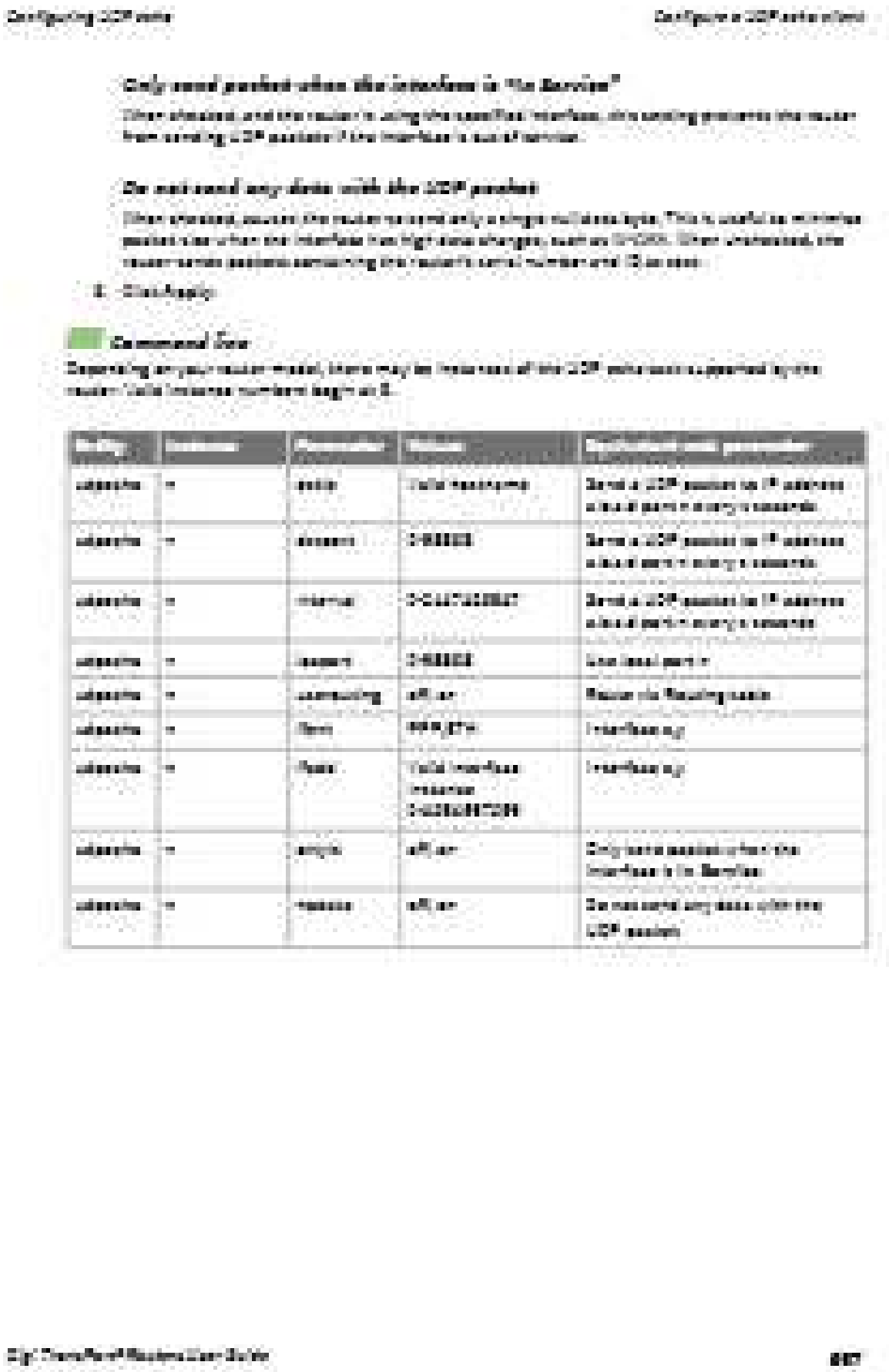
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Configuring Quality of Service (QoS)

Configure Quality of Service (QoS)

The Quality of Service (QoS) functionality allows prioritizing different types of IP traffic. Generally, networking devices use QoS to ensure that all priority applications do not use most of the available bandwidth to the detriment of those having a higher priority. For example, one might want real-time transactions such as VoIP and videoconferencing traffic to have priority over less time-sensitive traffic such as file transfers. Other uses of QoS include IP packets and protocols such as those in multicast/unicast between applications.

The IP header Type of Service (TOS) field indicates how to prioritize a packet. Using the configuration of the TOS field, a router that supports QoS can assign a Differentiated Services Code Point (DSCP) value to the packet. This may take place when the router drops a packet or another router passes the packet to the router, or may have already assigned it. Based on the DSCP value, the router will assign the packet to a priority queue. There are commonly four such queues for each IP interface on the router. Each queue can be configured to service a particular type of traffic in that queue and prioritized for routing according to predefined rules.

There are two ways to implement priority:

- Configure a priority queue to allow packets to be routed on a specific basis over packets that are queued in a higher priority one that is already using the available bandwidth).
- Have the router use Weighted Random Early Dropping (WRED) algorithm to queue packets based on the TCP session generating the packets to keep all TCP sessions current. This prevents the queue overflow, which results in dropping all subsequent packets.

QoS is a complex subject and can have significant impact on the performance of the router. For detailed background information on QoS, see the IETF documents RFC2475: Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers.

In Digi TransPort routers, the classification of incoming IP packets for the purposes of QoS takes place within the firewall. The firewall allows the system administrator to assign a DSCP value to a packet with any combination of source destination IP addresses and protocols. Details of how this is done are given in the section on Firewall configuration.

Once the routing code within the router receives an incoming packet, it checks to see the interface applicable to that packet and then checks to see if the packet is marked with a DSCP value. If so, then before the packet is sent to the interface, the QoS code intercepts the packet and assigns it to one of the available priority queues (normally 4) per IP interface based on the DSCP value.

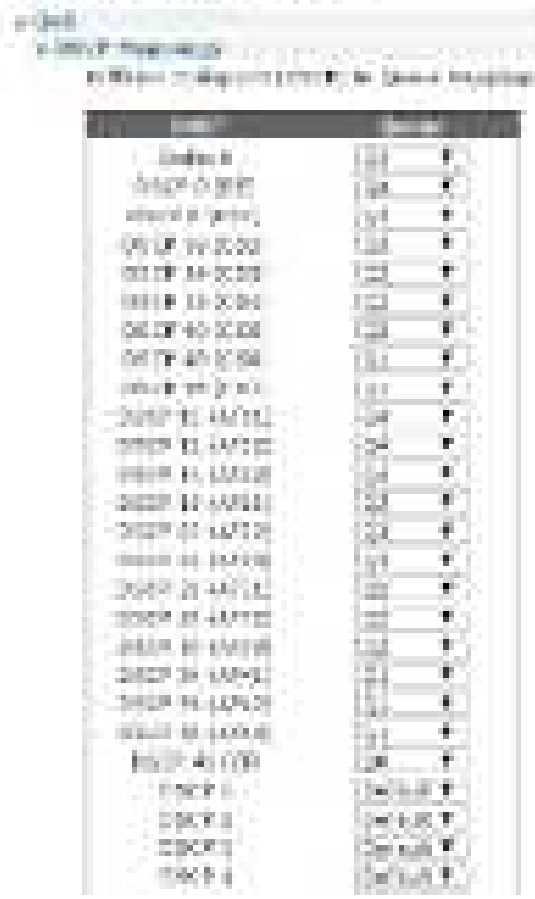
Each priority queue has a profile assigned to it. This profile specifies parameters such as the minimum guaranteed bandwidth, maximum queue length, and WRED parameters.

The packet is then processed by the queue management code and either accepted or passed to the queue for transmission.

Web

1. Go to Configuration > Network > QoS page. There are several groups of settings:
   - The Configuration > Network > QoS > DSCP Mappings page contains parameters to configure DSCP mappings.
   - The Configuration > Network > Queue Profiles page contains parameters to manage the queue profiles.
   - In addition, each Configuration > Interfaces > Ethernet and Configuration > Interfaces > PPP instance page contains a QoS page that controls how QoS behaves on that particular interface.

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Queue Profile

Minimum Kbps

Maximum Kbps

Maximum Packet Queue Length

WRED Minimum Threshold

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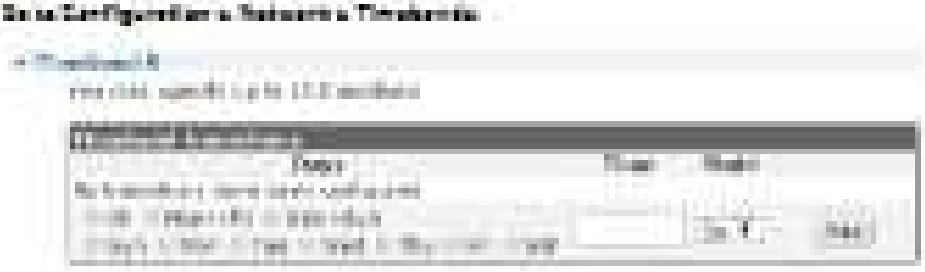
Configuring time bands



Configure a time band

Web

1. Go to Configuration > Network > Time bands.



2. Select Time bands to open the time band list. Configuration is controlled by a matrix, with the following parameters. You can configure up to 20 time band instances.

Days

A set of checkboxes for selecting the days of the week on which the time band instance will apply. You can select days individually or in groups for convenience. To select all the days of the week, check the All checkbox. To select the weekend days, check the Saturday and Sunday checkboxes. To select weekdays only, check the Monday-Friday checkboxes.

Time

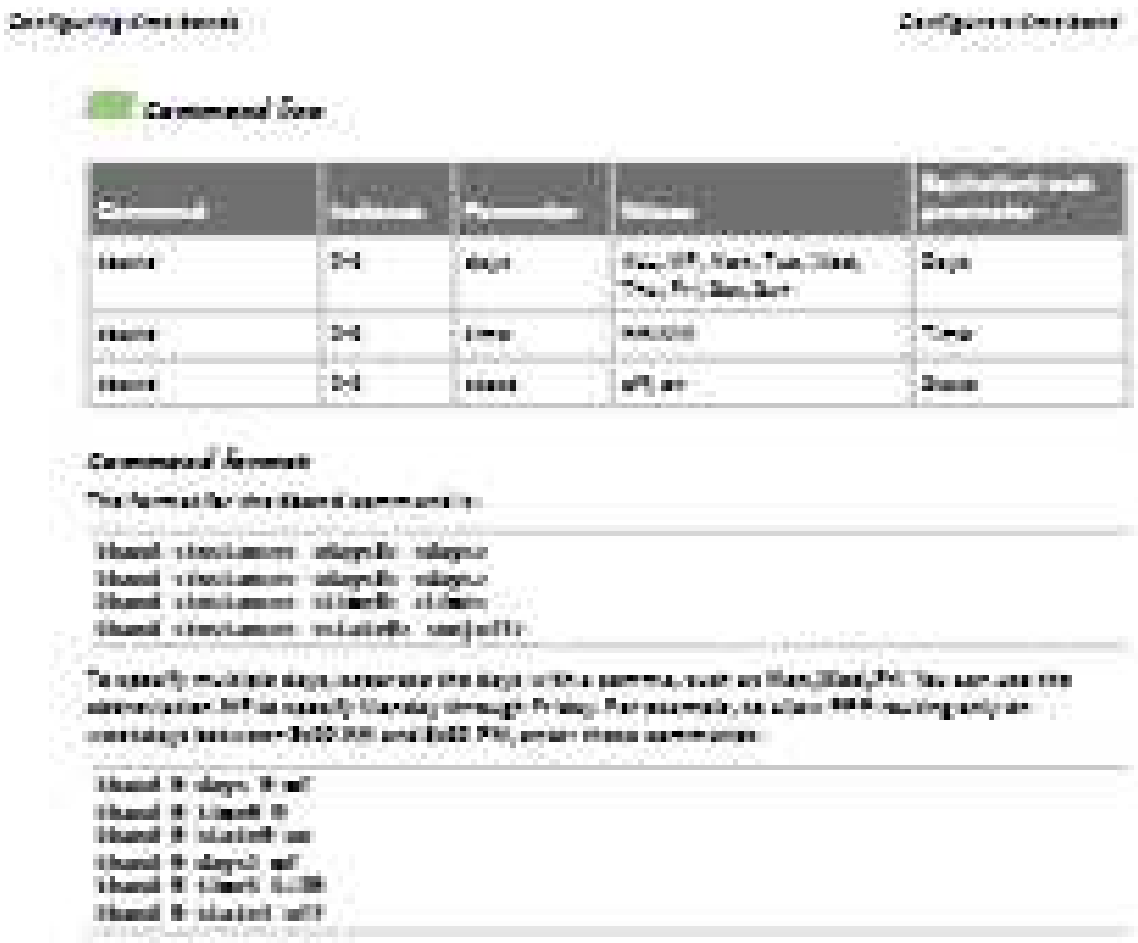
The start and end time, specified in 24-hour format with a colon separating the hours and minutes.

State

The routing state, which can be On or Off. For convenience, this parameter toggles state for each new addition. If an On instance is configured, the default state for the next addition is Off. Clicking the Add button adds the entry to the table. To edit an entry, select it in the table, remove it by clicking the associated Delete button. To exit the time band instance, navigate to the associated PPP Timeband configuration page, and click the Timeband checkbox, or enter the applicable command. For example:

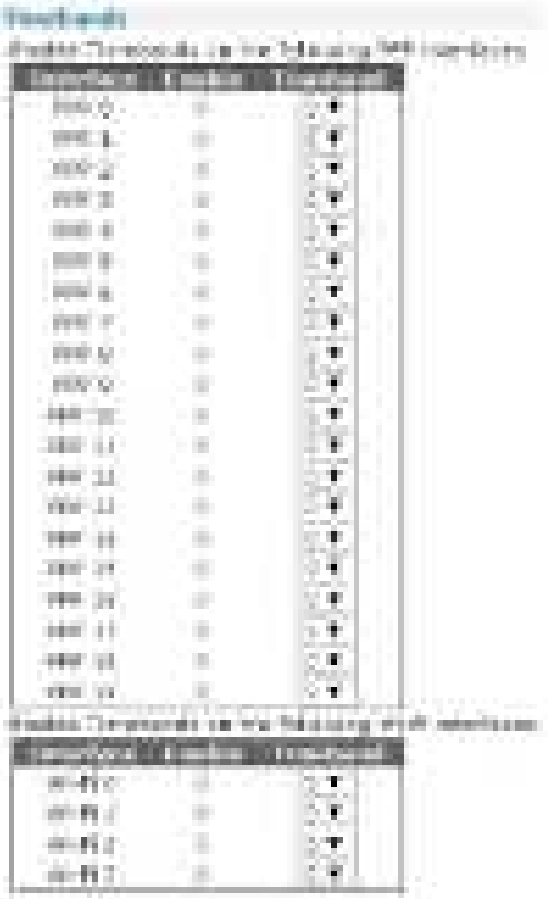
3. Click Apply.

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Enable and disable time bands for a PPP or Wi-Fi interface

Web



Interface

Enable

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Configuring advanced network settings

Configure advanced network settings

Configure first settings group

Web

1. Go to Configuration > Network > Advanced Network Settings.



2. Configure the first group of advanced network parameters as required.

Secondary IP Address mask

When connected to a Serial Interface using TCP

Advertise an MSS of x bytes

Use a Rx Window size of x bytes

Default SSL version for outgoing connections

- Auto, which allows the server to select the version.
- TLSv1 only
- TLSv1.1 only
- TLSv1.2 only



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Configuring legacy protocols

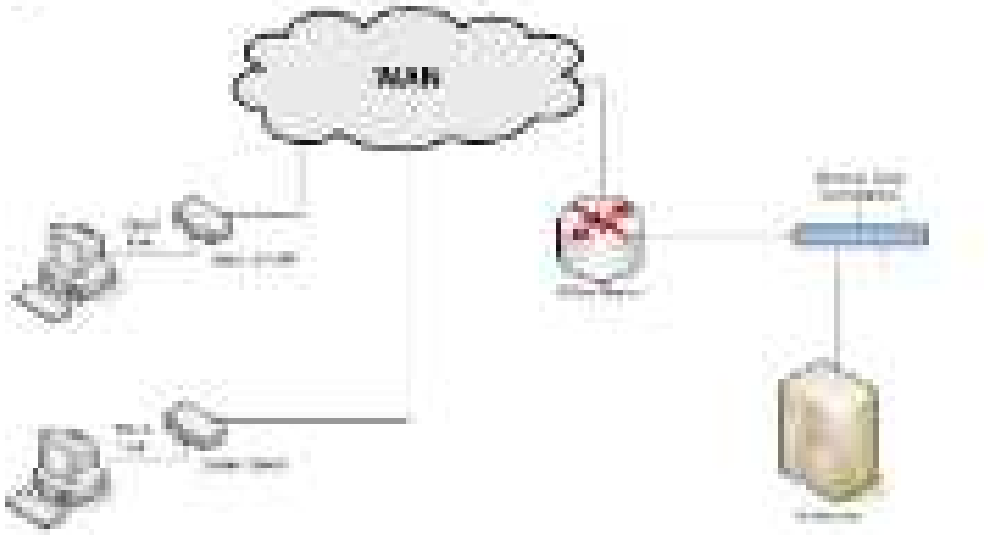
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About legacy protocols

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Configure Systems Network Architecture over IP (SNAIP)



Web

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2.

Description

Serial SNAIP profile over interfaces

a.
b.

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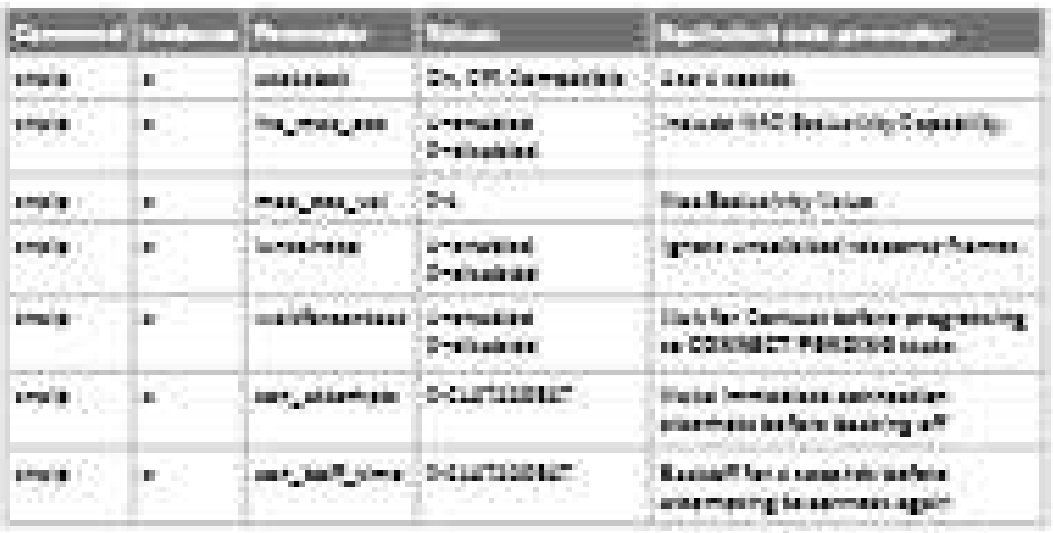
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Forcing SNAIP to use a specific instance

Configure TPAD parameters

Web

1. Go to Configuration > Network > Legacy Protocols > TPAD > TPAD.



2. Set TPAD parameters.

Use TPAD over Interface

Indicates whether any TPAD sessions will use IEEE Ethernet 802.3, IEEE Ethernet 802.1Q, PPP, HDLC or X.25 as the transports accessed. For IEEE Ethernet operation, select LAPB* option. For IEEE Ethernet operation an operation through a synchronous port, select LAPB. In the case of LAPB and LAPC an interface number can also be specified. This parameter specifies which LAPB or LAPC instance to use for the relevant TPAD instance. Select Port for LAPB or X.25 or LAPC. When using LAPB with IEEE this parameter may be set to IEEE, which means use any free LAPB instance. This is useful when more than 2 PCE connections are necessary to the router and the supplier does not support multiple Switched Virtual Circuits (SVCs) on a single X.25 Channel. A total of 252 are available LAPB instances, but all use the same IEEE Ethernet. Four calls are attempted at the same IEEE number at the same time. All connections the PCE connects may also must support multiple SVCs (using the setting IEEE).

Use Backup Interface

Specifies a backup interface to use automatically if the call to the primary interface fails. Select the primary interface will be tried first for every new call attempt.

3. Set IEEE parameters.







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Configuring legacy protocols Configure TR-50 parameters

Set TR-50 parameters:



Use Terminal ID (TID)

Replaces TID provided by connected terminal with configured TID

Digi ConnectPort Routers User Guide 603

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The TCP will be become inactive in x seconds

[illegible]

Use TCP connections with incoming ANACI ID polling calls

[illegible]

Use monitored Number

[illegible]

Use Connect String

[illegible]

The polling characters is x

[illegible]

Enable Message Numbering

[illegible]

Disable Direct Mode

[illegible]

Reset to Direct Mode

[illegible]

Use response code x in "invalid id address" message

[illegible]

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[illegible]

[illegible]

[illegible]

parameter is enabled but no LRC is sent by the terminal, the transaction is not forwarded to the host.

Include LRC Size

This parameter is normally disabled so that any LRCs received from a TWI2 terminal will be removed before the transaction data is transmitted to the remote host. In most cases this is acceptable because the router is still providing error correction and so the LRC is redundant. In some circumstances it may be necessary to enable this parameter so that the router transmits the LRC to the remote host along with the transaction data.

Force parity when sending data to the terminal

If enabled, the router always uses even parity when relaying data from a remote host via a serially connected TWI2 terminal. The data can be passed through without any parity being changed, thanks to this setting.

Strip parity when sending data to the host

Enabling this parameter causes the router to remove any parity before sending the data to the host.

Force parity when sending data to the host

If enabled, the router always uses EVEN parity when relaying data from the serially connected TWI2 terminal to the remote host. The data can be passed through without any parity being changed, thanks to this setting.

Strip Trailing Spaces

If enabled, the TWI2 transaction data in responses coming from the host will have any trailing space characters from the end of the packet before relaying the data to the terminal. This may be necessary if the host system adds out responses with unnecessary spaces which can cause abnormal behavior in some terminals.

Acknowledge TWI2 data packets

Causes the router to acknowledge TWI2 data packets from the terminal. This parameter should normally be enabled, but only if the polling sequence does not require it to be disabled.

Convert leading ETX character to ACK

If enabled, the router converts the leading ETX character in a transaction to an ACK character.

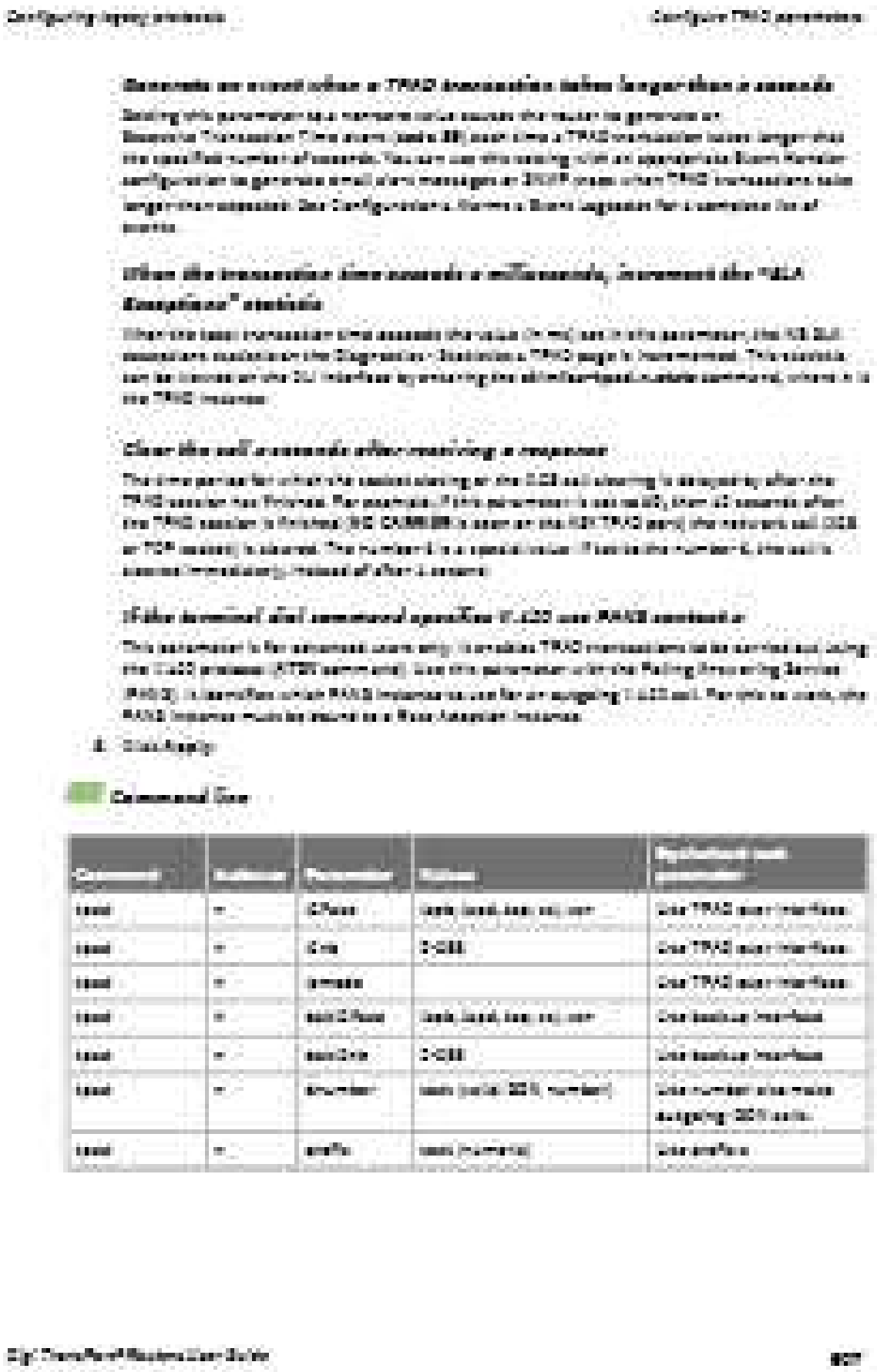
Terminate TWI2 poll in EOT only

A TWI2 poll is normally terminated with a DLE EOT sequence. Some terminals only require the EOT character on its own. This is the case when enabling this parameter.

Clear TWI2 poll if there is no response to a TWI2 transaction request for x seconds

The length of time, in seconds, the router waits for a response to a TWI2 transaction request before clearing the TWI2 poll.

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Configure X.25 parameters

Go to Configuration > Network > Legacy. Select a X.25 The screen shows several groups of configuration parameters:

- General
- LAPB
- Call Bindings
- Logical Channel Identifier Bindings
- Call Filtering
- PAD Profiles
- PADs
- CUG Bindings
- IP Bindings
- PVCs
- CUG Profiles

Configure general X.25 parameters

[illegible]

1. [illegible]



2. [illegible]

[illegible] When processing a X.25 call, use the addresses from CALL packet in the CALL DTE packet

[illegible] Previously, when processing a call, the X.25 CALL DTE (call confirm packet) that the router sends to answer the call use the called and calling addresses from the CALL packet. You can enable this setting on a per-interface basis (LAPB, LAPB_or DLC)

[illegible] Send CCT PVC if the router is the Initiator

[illegible] Previously, the router is responsible for sending the Data when an CCT PVC comes up. This parameter should only be set to ON when it is known that the responder will reset the Data.

[illegible] Send CCT PVC if the router is the Responder

[illegible] Per se On, the router is responsible for sending the Data on CCT PVC interface when it is the responder. The default for this parameter is OFF.

[illegible] Include length of header in IP length header

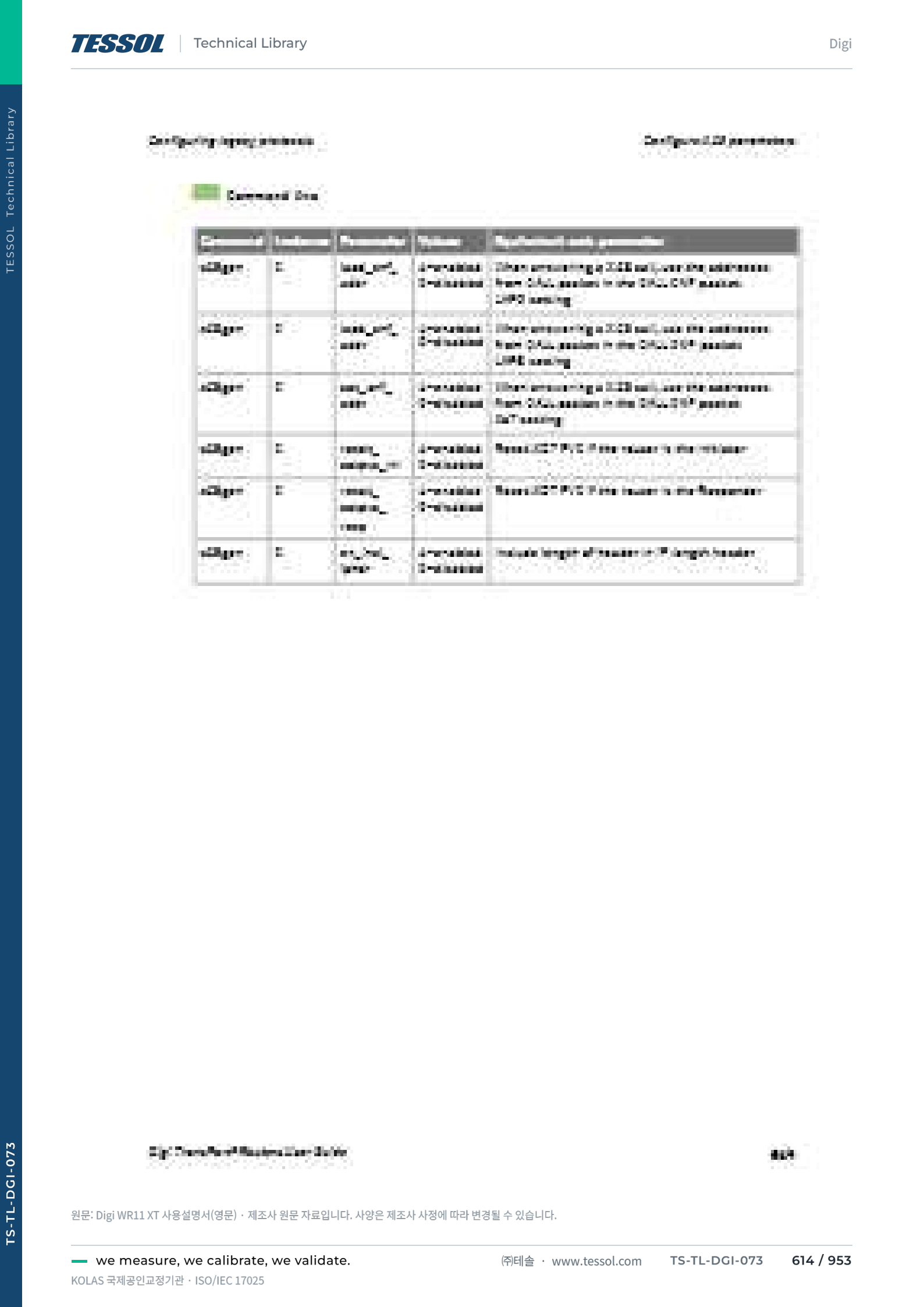
[illegible] For a X.25 data that includes an IP header length indication, such as IP Length Header is set to One TPAD or AHC, use this parameter specifies whether the length indicated includes or excludes the length of the header itself. By default (unchecking) is OFF, in which case the length of the header is NOT included in the value.

[illegible] For example, suppose there is one type of data of value 87 to encode. Then, 00 00 87 is the encoding. If this parameter is set to OFF as the length [00 00] is 0, because the length does not include the length of the header.

[illegible] Otherwise, the length of the IP header is included in the value, such as 00 00 87 is the encoding as the header bytes are included.

3. [illegible]

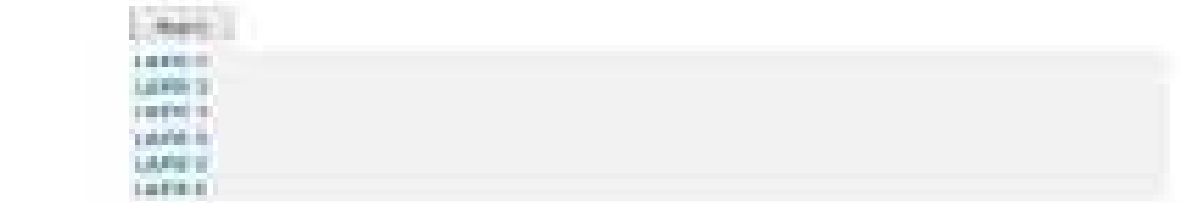
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Configure X.25 LAPB parameters





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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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Configure NUI mappings

1. [illegible]
2. [illegible]
3. [illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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Configure NUA / NUI interface mappings

- [redacted]



[redacted]



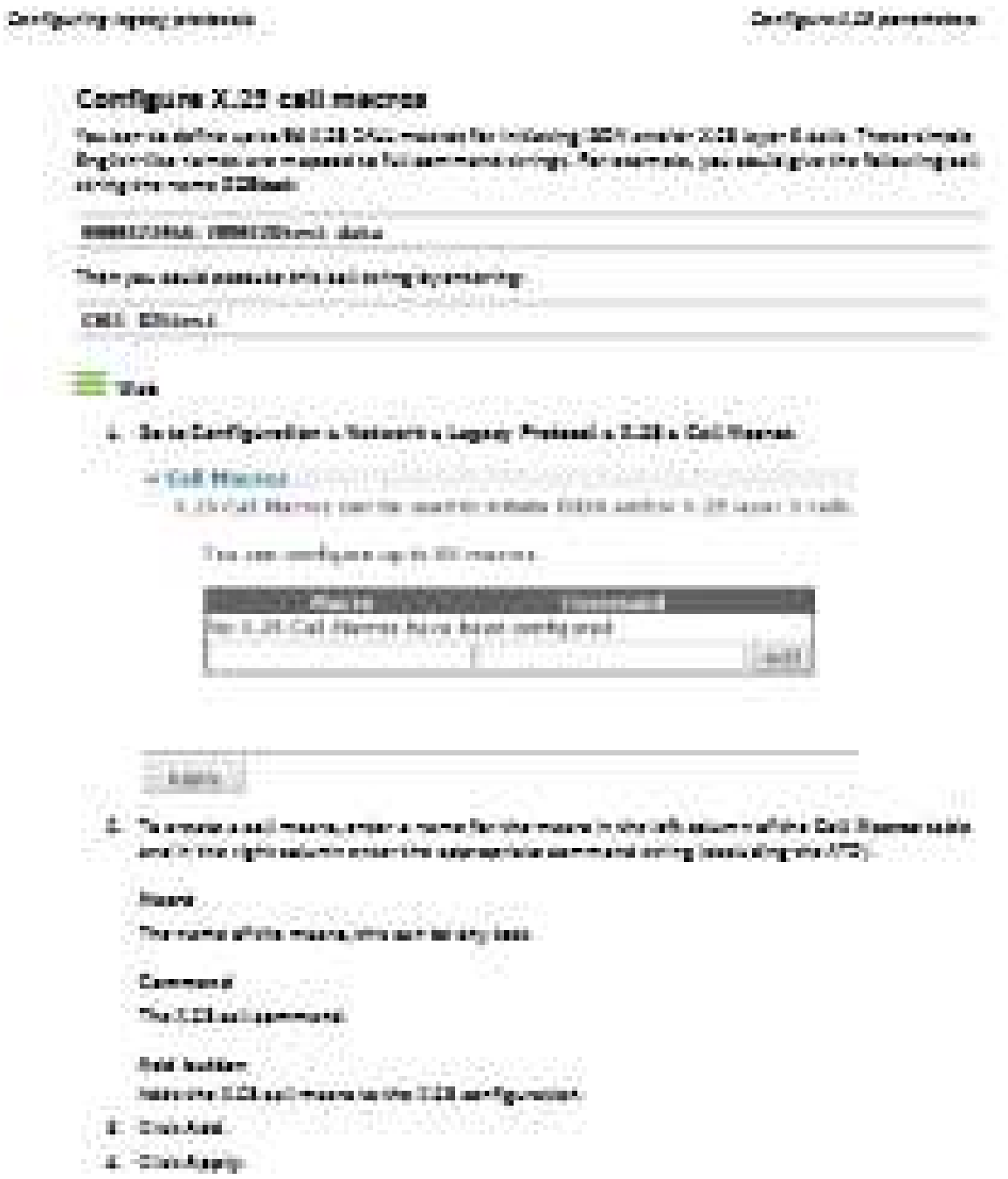
[redacted]

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[illegible]

[illegible]

[illegible]



Configure X.25 call macros

Web

4. Go to Configuration > Network > Legacy Protocol > X.25 > Call Macros.

5. To create a call macro, enter a name for the macro in the left column of the Call Macros table and in the right column enter the appropriate command string (see Digi AT).

   Name

   The name of the macro, this can be any text.

   Command

   The X.25 call command.

   Add button

   Inserts the X.25 call macro in the X.25 configuration.

6. Click Add.
7. Click Apply.

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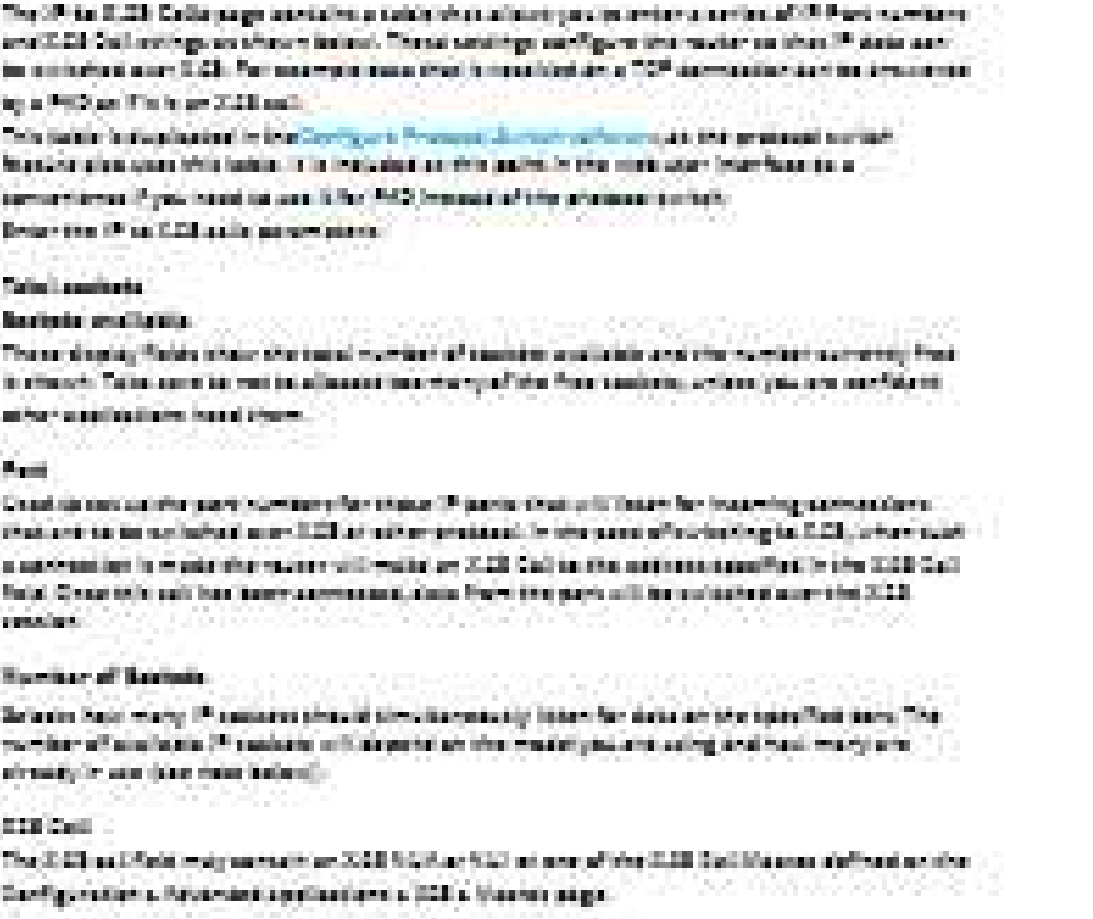




Configure IP to X.25 call strings







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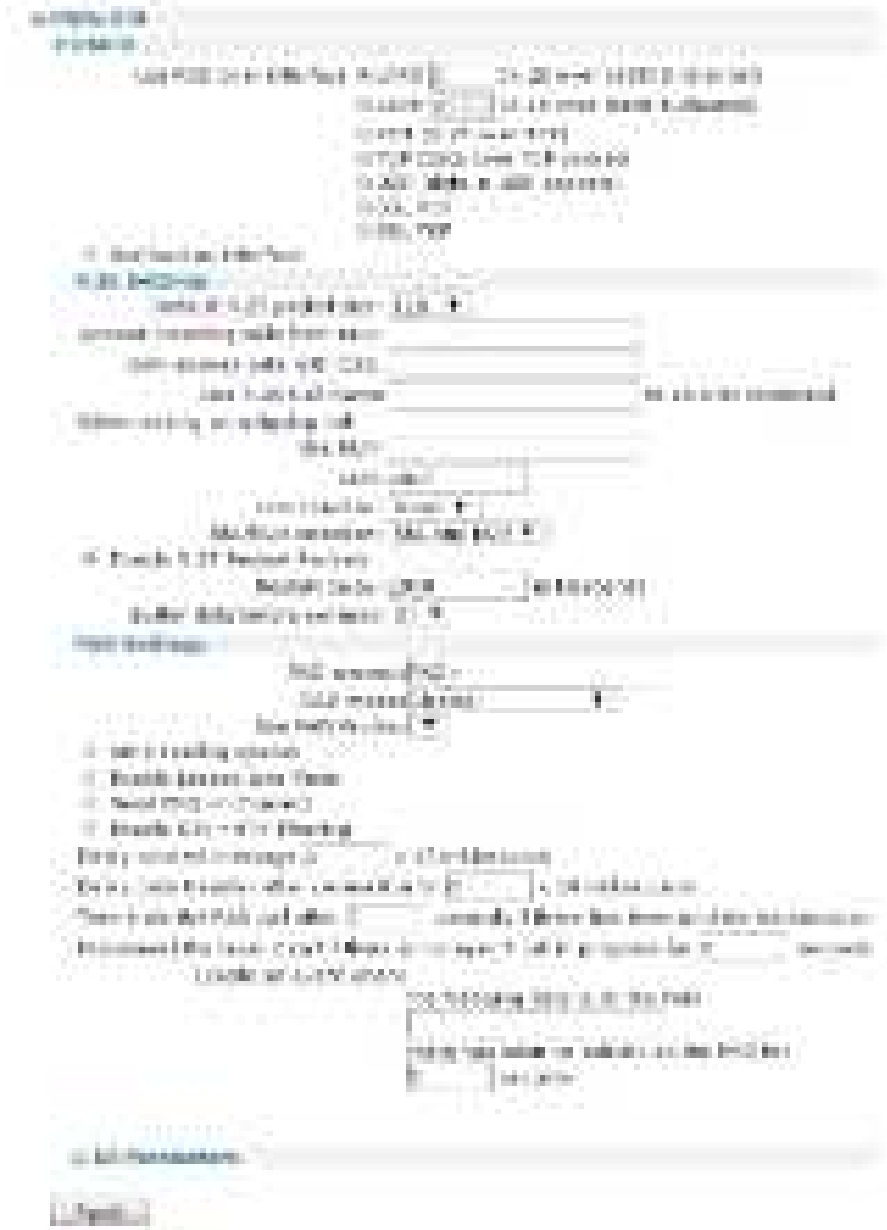
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Configure Packet Assembler Disassembler (PADS)

[illegible]

[illegible]

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[illegible] [illegible]

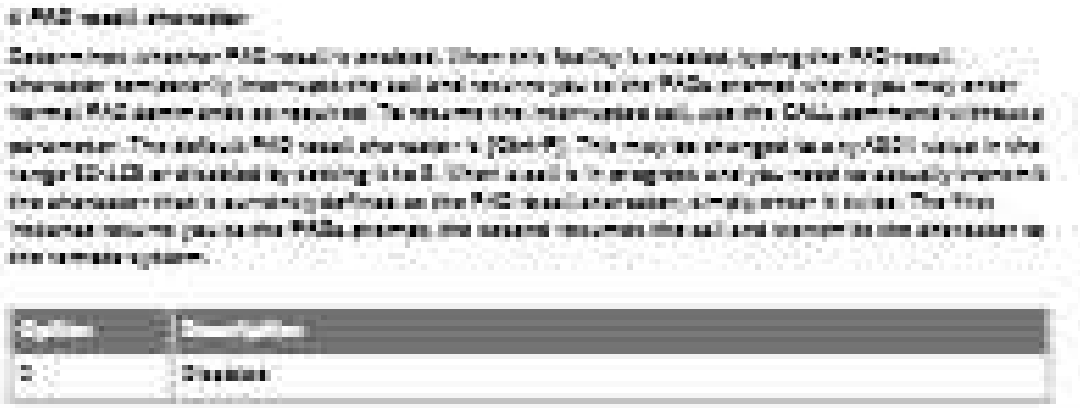
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[illegible]

[illegible]	[illegible]
0	[illegible]
1	[illegible]
2	[illegible]

[illegible]

[illegible]	[illegible]
0	[illegible]
1	[illegible]
2	[illegible]
3	[illegible]

[illegible]

[illegible]	[illegible]
0	[illegible]
1	[illegible]
2	[illegible]
3	[illegible]
4	[illegible]
128	[illegible]

[illegible]

[illegible]

[illegible]

DTR asserts to indicate a continuous flow of data at high speed.

[illegible]	[illegible]
0	[illegible]
1	[illegible]

[illegible] Pacing after CR

[illegible]

[illegible]	[illegible]
0	[illegible]
1–255	[illegible]

[illegible] Line Pacing

[illegible]

[illegible]	[illegible]
0	[illegible]
1–255	[illegible]

[illegible] Port speed

[illegible]

[illegible]	[illegible]
19	[illegible]
38	[illegible]
57	[illegible]
0	[illegible]

[illegible] Flow control of PAD (by DTE)

[illegible]

[illegible]	[illegible]
0	[illegible]
1	[illegible]
2	[illegible]

[illegible]

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1	[illegible]
2	[illegible]

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[illegible]	[illegible]
0	[illegible]
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3	[illegible]
4	[illegible]
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7	[illegible]
8	[illegible]

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Configure an X.25 Permanent Virtual Circuit (PVC)

A Permanent Virtual Circuit (PVC) provides the X.25 equivalent of a leased line service. Like a PVC there is no call setup or disconnect process; you can just start sending and receiving X.25 data on a specified LCN. For each X.25 service connection you may setup up multiple PVCs each of which uses a different LCN and terminates at PADs and XOTs. Digi routers support up to four PVCs numbered 0-3.

Web

1. Go to Configuration > Network > Legacy Protocol > X.25 > X.25 PADs > X.25 PVC >



2. Configure X.25 PVC parameters

Enable this PVC

Enables or disables the PVC.

LCN

The LCN value used for this PVC. For an SVC PVC, this parameter defines the Requested LCN field in the PVC setup packet, though the XOT PVC connection always uses an LCN of 1. For an SVC PVC, this field should contain the remote connection's LCN.

PVC Name

The upper layer interface used for this PVC. This setting can be set to LAPB, LAPD or TCP. For XOT mode.

Connect this PVC to PAD #

This type of upper layer interface is connected via this PVC and can be set to PAD for an X.25 PAD, TPAD for a TPAD connection or SSH for SSH tunneling. Protocol SSH for the X.25 section, the

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Configuring legacy protocols

Configure X.25 parameters

X.25 packet switching

X.25 is a data communications protocol employed throughout the world for wide area networking across Packet Switched Data Networks (PSDNs). The X.25 standard defines the way in which terminal equipment establishes, maintains and clears Switched Virtual Circuits (SVCs) across X.25 networks as well as how devices operating in packet mode access these networks.

The protocols involved in X.25 operate at the lower three layers of the OSI model:

- At the lowest level is the Physical layer defines the electrical and physical interface between the DTE and DCE.
- Layer 2 is the Data Link Layer that defines the way data is transferred as a "frame" and includes the error detection and flow control mechanisms.
- Layer 3 is the Network layer. This defines the data and control packet structure and the procedures for exchanging services that are available on PSDNs.

Another standard, X.32, defines the procedures for accessing X.25 networks via the PSTN. Many Digi products include support for dialing connected terminals or access X.25 over PSTN networks, the X.25 Enhanced Packet TCP. They can also be configured as a backup to a network failure the router automatically switches to using an alternative service. The Packet Assembler/Disassembler (PAD) interface conforms to the X.3, X.28, and X.29 standards.

Up to 8 PAD sessions, from an available pool of 8, can be created and dynamically assigned to the asynchronous serial ports on the PAD pseudo-host.

Each application that uses the router to access an X.25 network has its own particular configuration requirements. For example, you may need to program your Closed User Numbers (CUG) and specify which Logical Channel Numbers (LCNs) to use on your X.25 service. This information is available from your X.25 service provider. You also need to decide whether your application uses Switched or Permanent X.25. Once you have this information, use the PAD configuration pages to set up the appropriate parameters.

X.25 over Ethernet

The router can transfer data via X.25 networks over Ethernet (X.25 Encapsulation).

Once the router has been configured appropriately, the X.25 call to the X.25 network can be made using an ATDT command or by passing a predefined macro. The format of the ATD command allows you to combine the X.25 call and the subsequent X.25 call in a single command. Alternatively, the X.25 call may be made separately from the PAD prompt once the X.25 connection to the X.25 network has been established.

X.25 over TCP

The router can transfer data via X.25 networks over the X.25 Enhanced Packet TCP service provider supports this facility. The speed at which data can be transferred varies depending on the service provider, but is generally 9600 bits per second or less.

X.25 commands

Once an X.25 session has been established the router switches to PAD mode. In this mode, operation of the PAD is controlled using the standard X.29 PAD commands listed in the following table:

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Code	Cause message
17	User busy
18	No user responding
19	No answer from user (user alerted)
21	Call rejected
22	Number changed
26	Non-selected user clearing
27	Destination out of order
28	Invalid number format
29	Facility rejected
30	Response to STATUS ENQUIRY
31	Normal, unspecified
34	No circuit/channel available
38	Network out of order
41	Temporary failure
42	Switching equipment congestion
43	Access information discarded
44	Requested circuit/channel not available
47	Resources unavailable, unspecified
49	Quality of service unavailable
50	Requested facility not subscribed
57	Bearer capability not authorized
58	Bearer capability not presently available
63	Service or option not available, unspecified
65	Bearer capability not implemented
66	Channel type not implemented
69	Requested facility not implemented
70	Only restricted digital information bearer
79	Service or option not implemented, unspecified
81	Invalid call reference value
82	Identified channel does not exist

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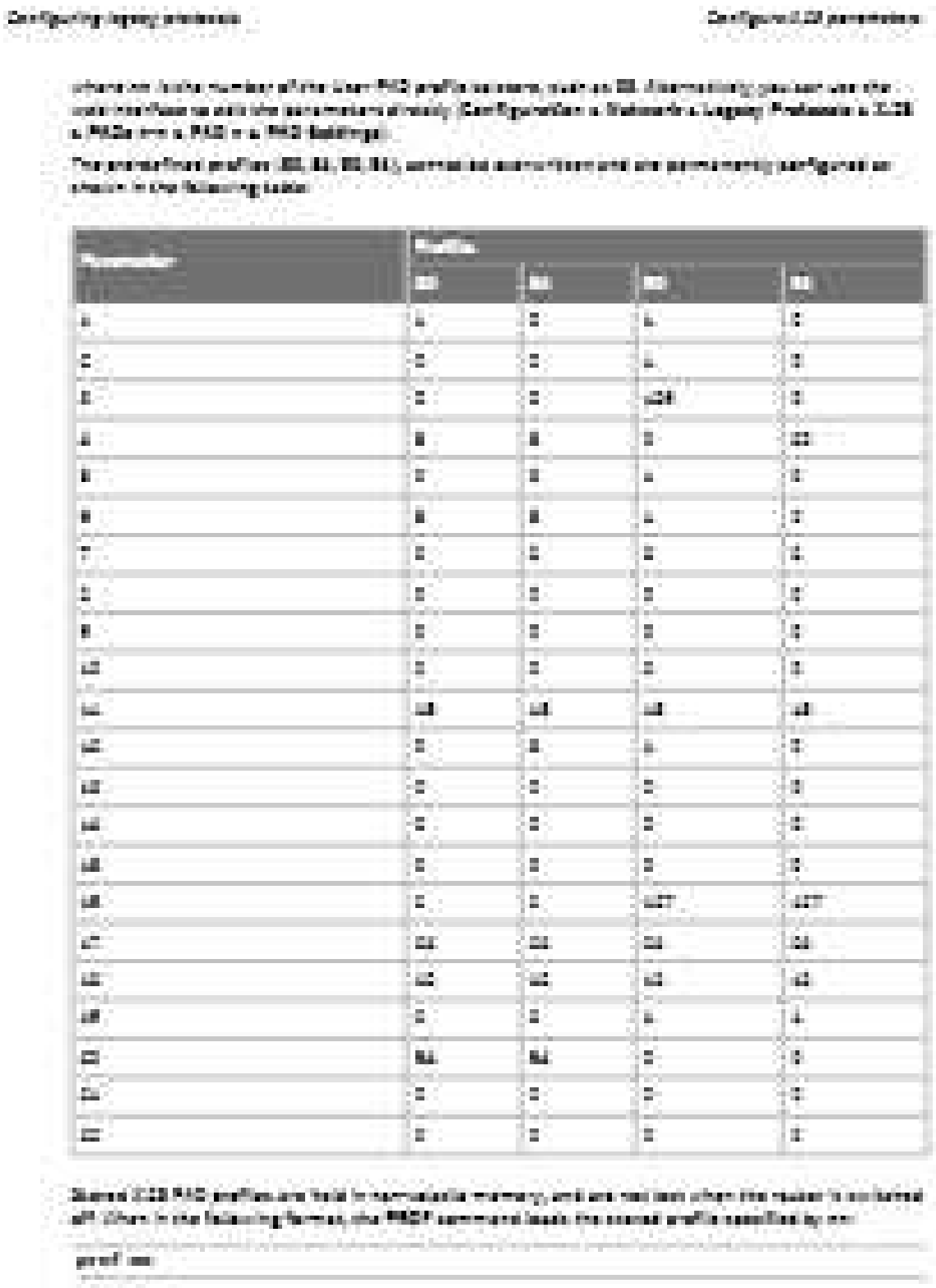
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Configure a MODBUS gateway

Requirements for MODBUS support in TransPort devices

Configure the MODBUS gateway

Web



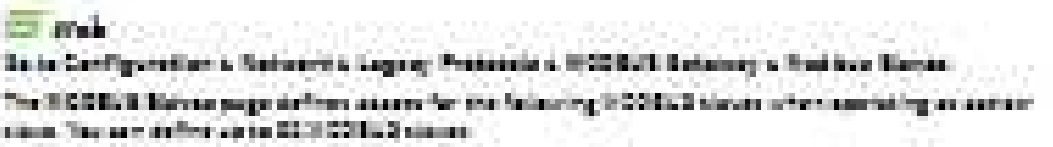
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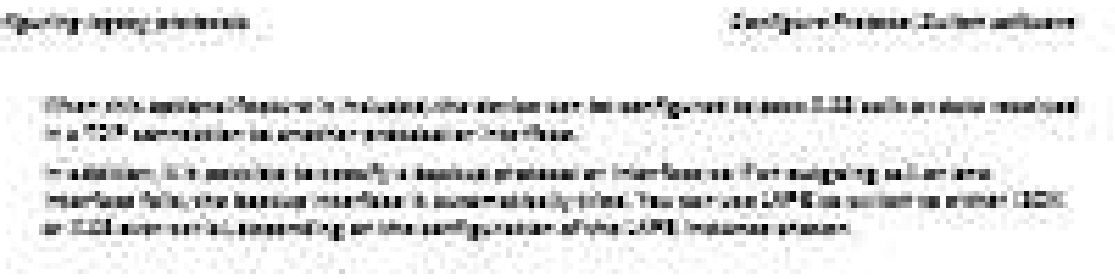
Configure Protocol Switch software

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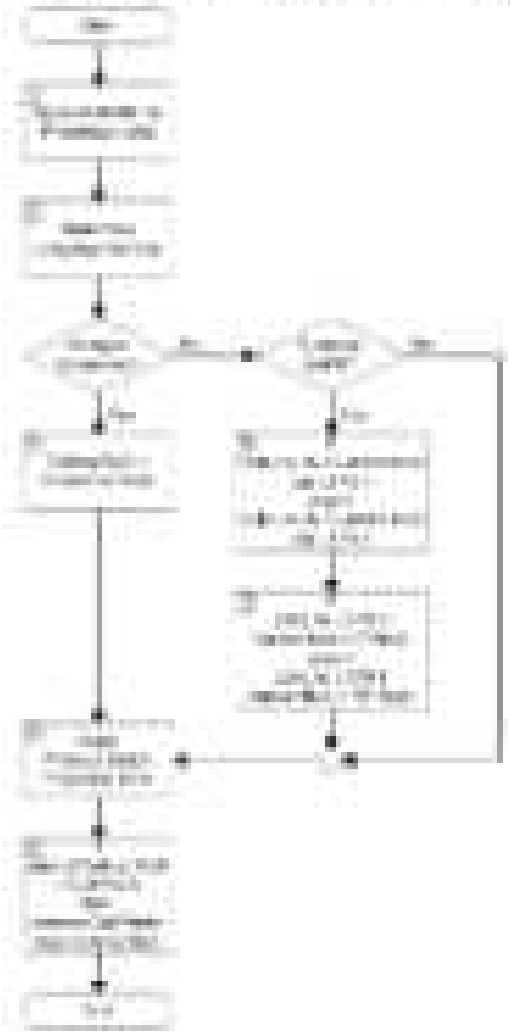
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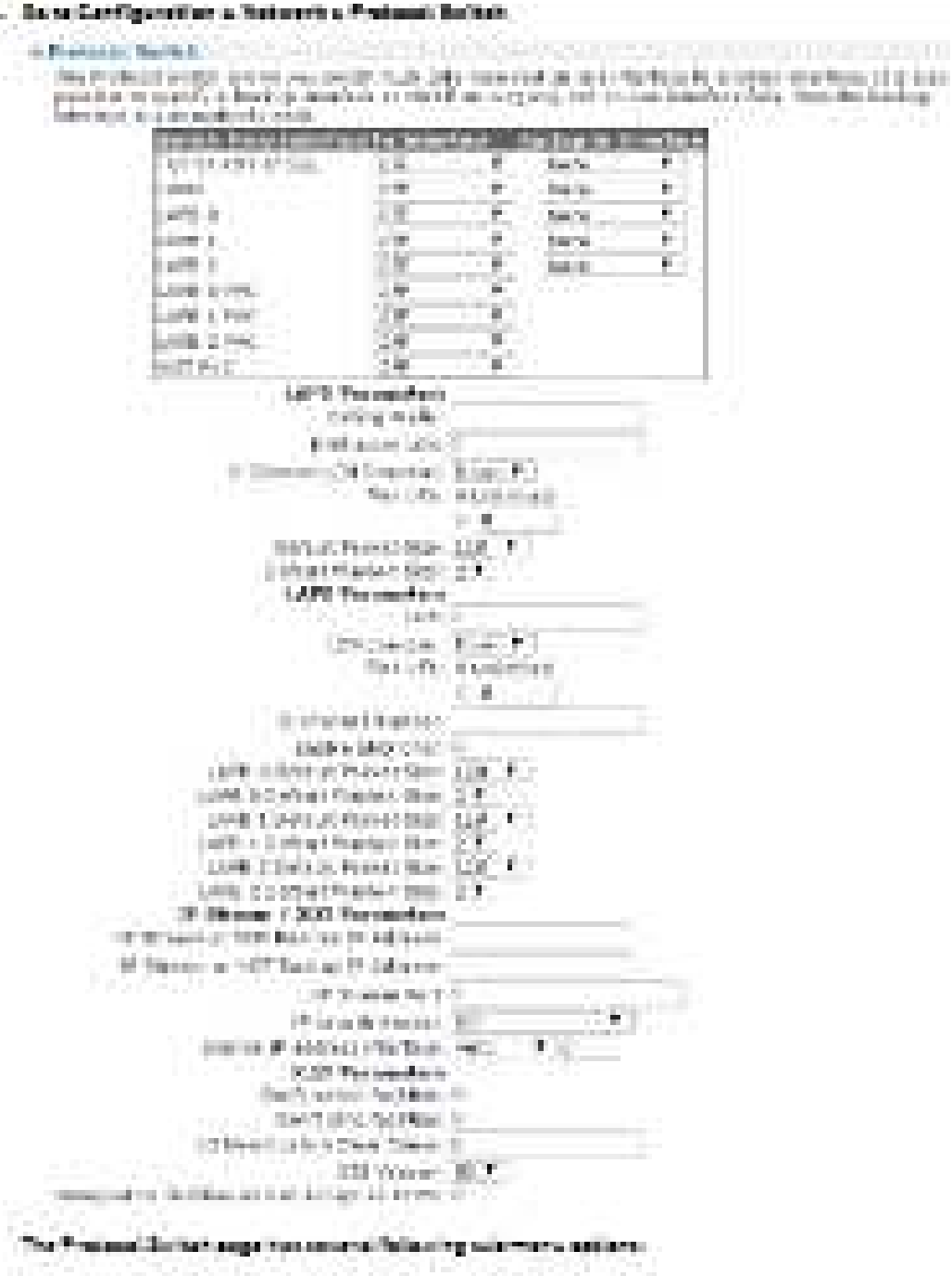


Protocol Switch software logic



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Configure the Protocol Switch



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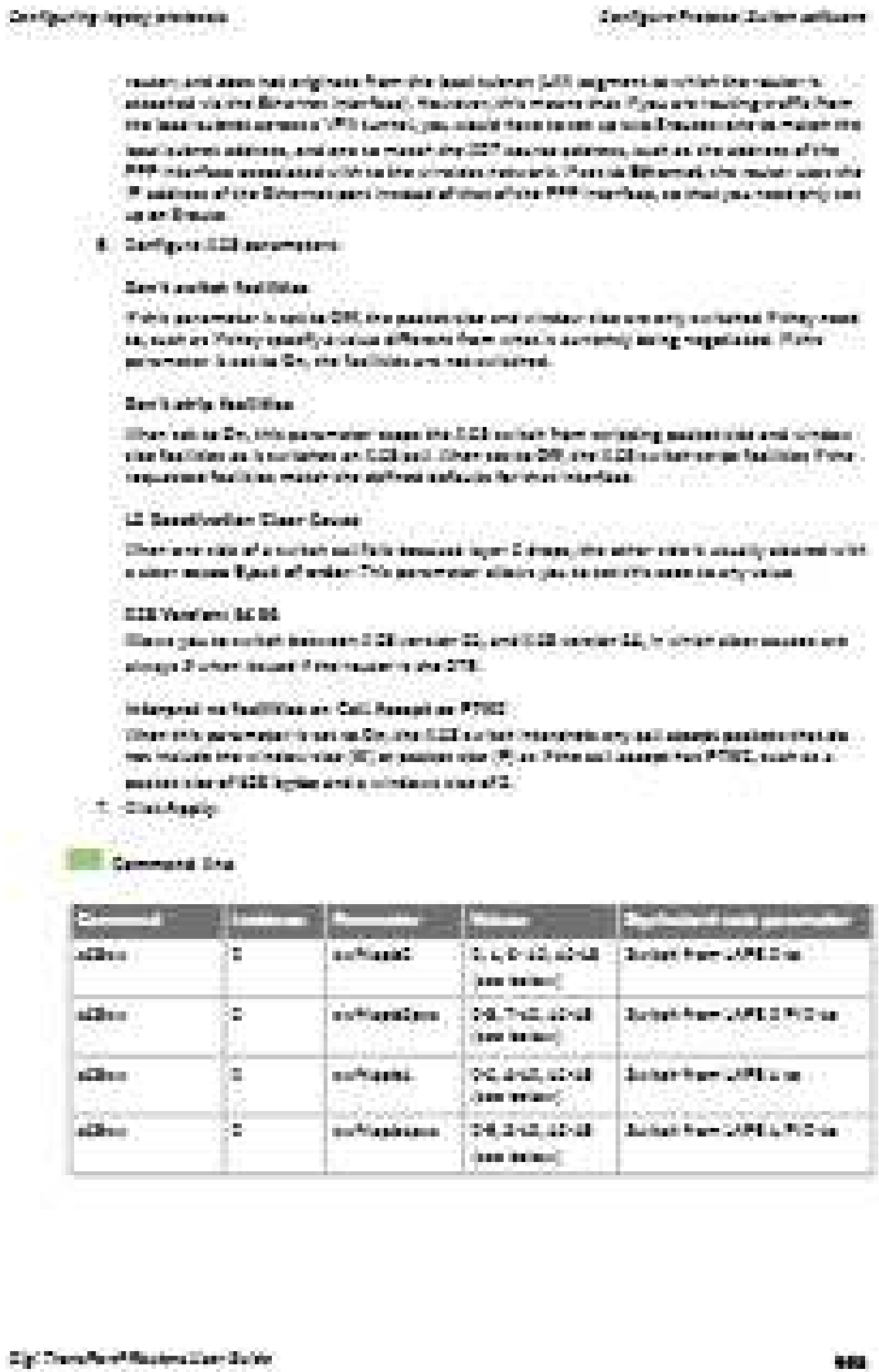
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Configure CUD mappings parameters



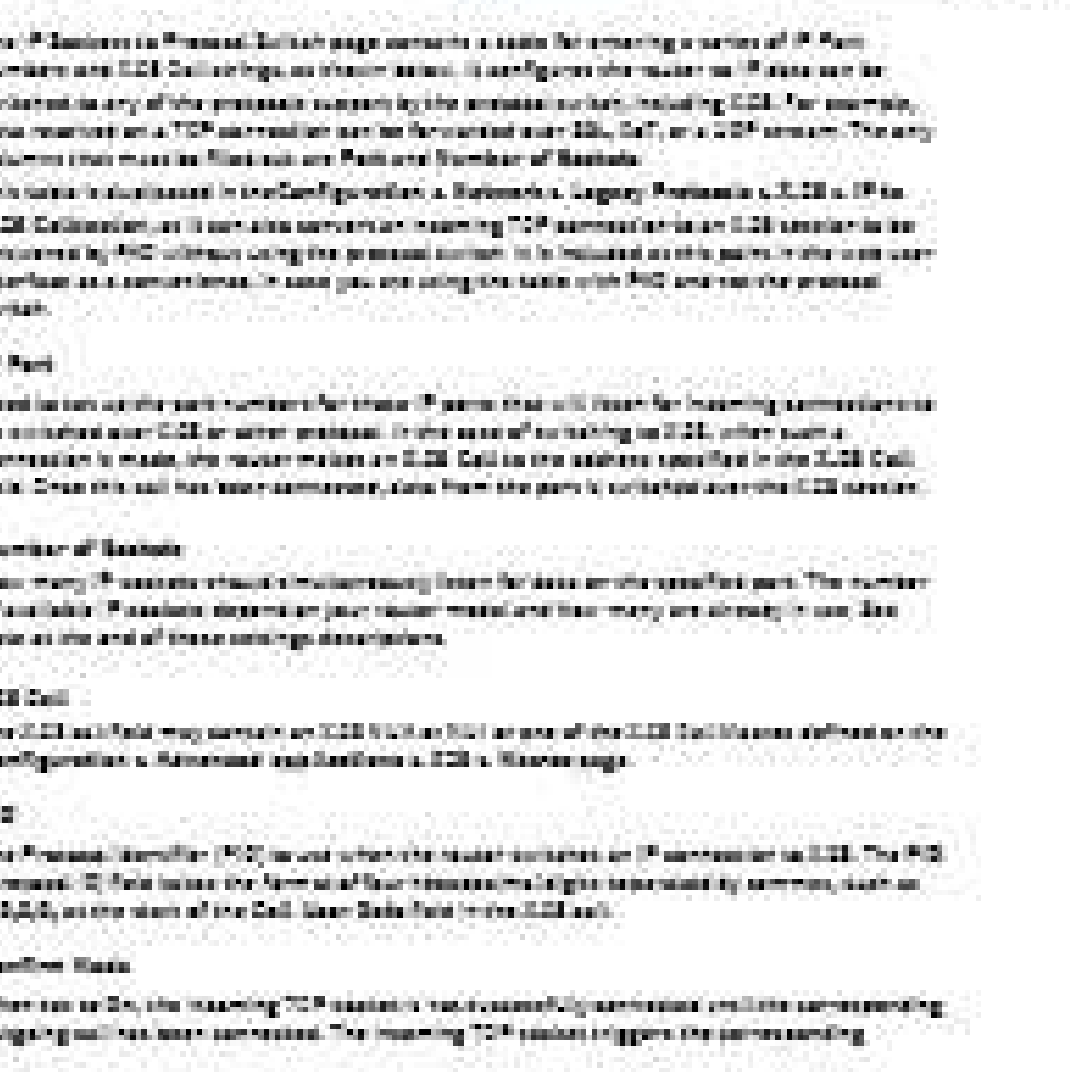




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Configure IP sockets to protocol switch





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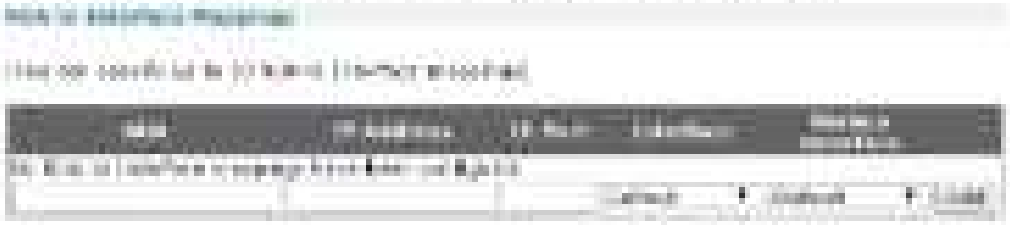


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Configure NUA to interface mappings





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Configure NUA mappings

Web

Command line

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Configuring alarms

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Configure events to trigger alarms

Web

1. Go to Configuration > Alarms > Event Settings. The Event Settings page has several sub-menu items:
   - Email Notifications
   - SNMP Traps
   - SMS
   - Local Logging
   - Syslog Messages
   - Syslog Server Images



2. Set the following parameter values:

Only log events with a log priority of at least

Enables filtering that ensures that only events having a specified severity or lower level are logged.

Do not log the following events

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Configure sending email alert messages when events occur

About using email templates

Email template structure

Other fields

Reply-To

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Configure SNMP traps

Web

1. Go to Configuration > Remote Management > SNMP > SNMP Traps.
2. Specify which types of SNMP traps you want to generate.

   Generate Enterprise traps
   Enables or disables generation of enterprise traps.

   Generate Generic traps
   Enables or disables generation of generic traps.

   Generate Authentication Failure traps
   Enables or disables generation of authentication failure traps.

   Generate DNSP traps
   Enables or disables generation of DNSP traps.
3. In SNMP Trap Server 1, configure the settings for SNMP trap server 1.

   Trap Server IP Address
   The IP address for the SNMP trap server.

   Port
   The network port number for the SNMP trap server.

   Use Interface Interface type Interface number for the source IP address
   The interface type and number to use for the source IP address. Interface type can be Auto, PPP, or Ethernet.

   Use SNMP Version
   The SNMP version to use: SNMPv1, SNMPv2c, or SNMPv3.

   Send "Inform Request" messages
   Enables or disables sending the trap as an Inform Request message, which requires an acknowledgement from the receiver. Failure sending is enabled, these settings are displayed.

   If no response, retransmit the Inform Request message after n seconds
   Sets the Inform Request to be retransmitted if there is no response from the receiver after the specified number of seconds.

   Retransmit the message n times
   Sets the number of times to retransmit the Inform Request message.

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Send SMS alert messages when events occur

1. Go to Configuration > Alarms > Event Settings > SMS.
2. Enter SMS message settings.

   Send SMS messages to

   If the event priority is at least

   Use SMS template

   Send a maximum of SMS messages per day

3. Click Apply.

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Log events to a secondary log file on an external flash drive

You can create a secondary log file on a USB flash drive to which the router logs events. Using a secondary log file is useful if an extended logging period is required where the normal event log file would overwrite early events before the operator has had a chance to view them. The secondary log file can be limited in size or allowed to fill the USB flash drive. Once the log file is full, earlier events are purged from the end of the file so later events can be saved.

Web

1. Go to **Configuration > Alarms > Event Settings > Local Logging**.



2. Enter local logging settings.

Local Drive to log to

Determines the drive letter where the USB flash drive is located. This is designated as the USB drive.

Log Filename

The name of the file for the secondary event log.

Log size

The maximum size of the log file in kilobytes.

CSV Logs

On platforms that support it, event logs can be saved in CSV format. This field specifies the size of the CSV log file, in kilobytes. The files created will be named eventLog0.csv, eventLog1.csv, etc.

3. Click **Apply**.

Command line

event	=	logdrive	Drive letter, such as E: for USB flash drive.	Local drive to log to
event	=	logfile	Name of the file, such as mylog.log	Log filename
event	=	logsize	Size of log in kilobytes, such as 65536. 0=fill drive.	Log size
event	=	csvlogs		Type

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Log events to a Syslog server

Besides logging events to a normal log file and to a file on a USB flash drive, you can configure the router to send events to a Syslog server.

Wan

1. Go to Configuration > Alarms > Event Settings > Syslog Messages

2. Configure Syslog server message settings

Send Syslog messages

When enabled, sends all the following options:

Send a Syslog message when the event priority is at least x

The router only sends events with a priority at least as high as the value you set here to a Syslog server. For example, if you set the value to 4, only events with a priority of 0 (emergency), 1, 2, 3, and 4 will trigger an event Syslog message. The default Syslog message priority value is 8.

Send a maximum of n Syslog messages per day

Sets the limit on the number of Syslog messages that may be sent during any 24-hour period.

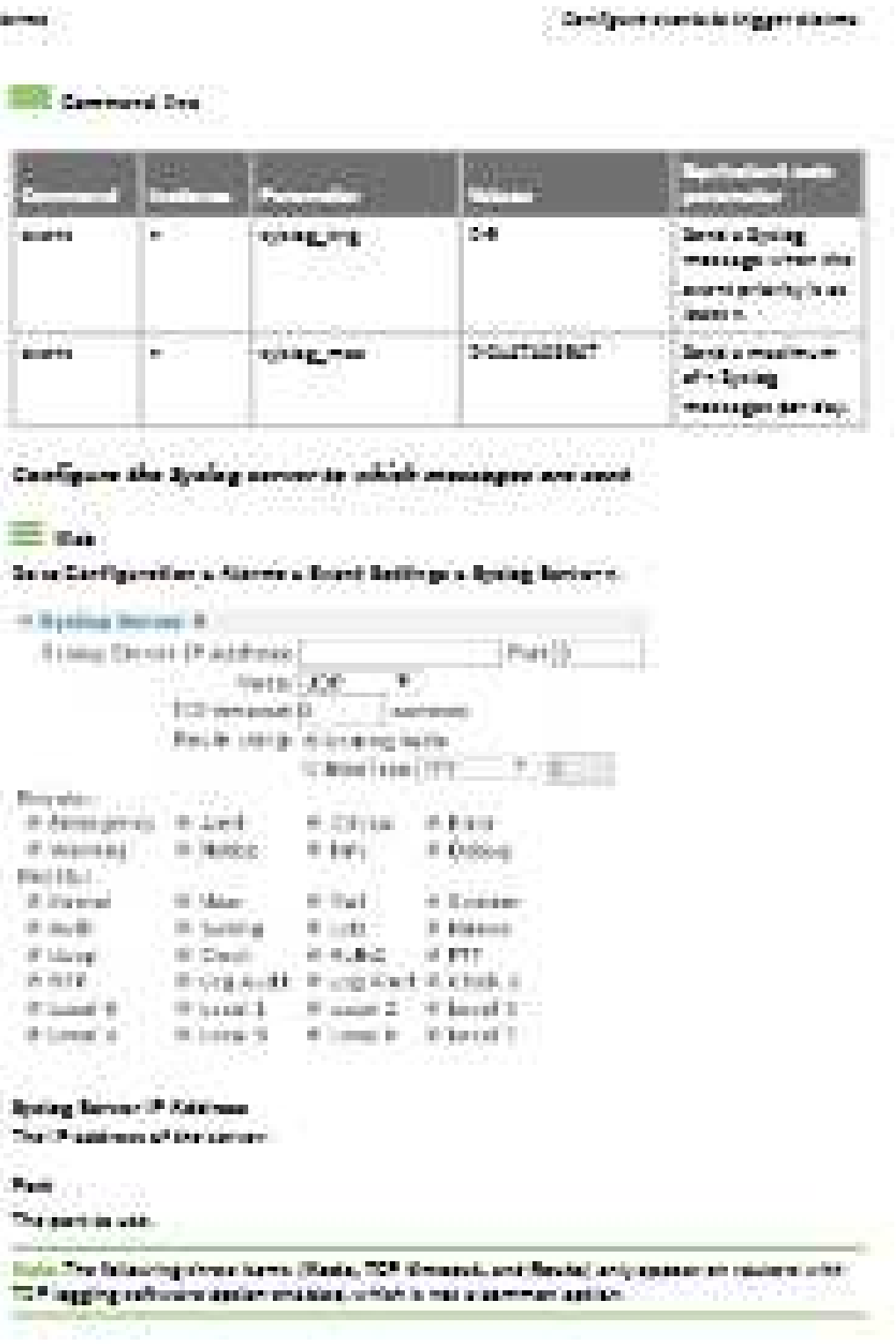
The intention is to prevent excessive alerts being sent when the event trigger value is set to a high priority (low value, e.g. 0 or 1 for example), such as a value that results in a large number of Syslog messages being generated. A maximum of 2147483647 Syslog messages can be sent in a day.

Syslog messages have been sent today

A status message that indicates how many Syslog messages have been sent in the last 24-hour period.

3. Click Apply

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[illegible]

[illegible]

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Edit event descriptions



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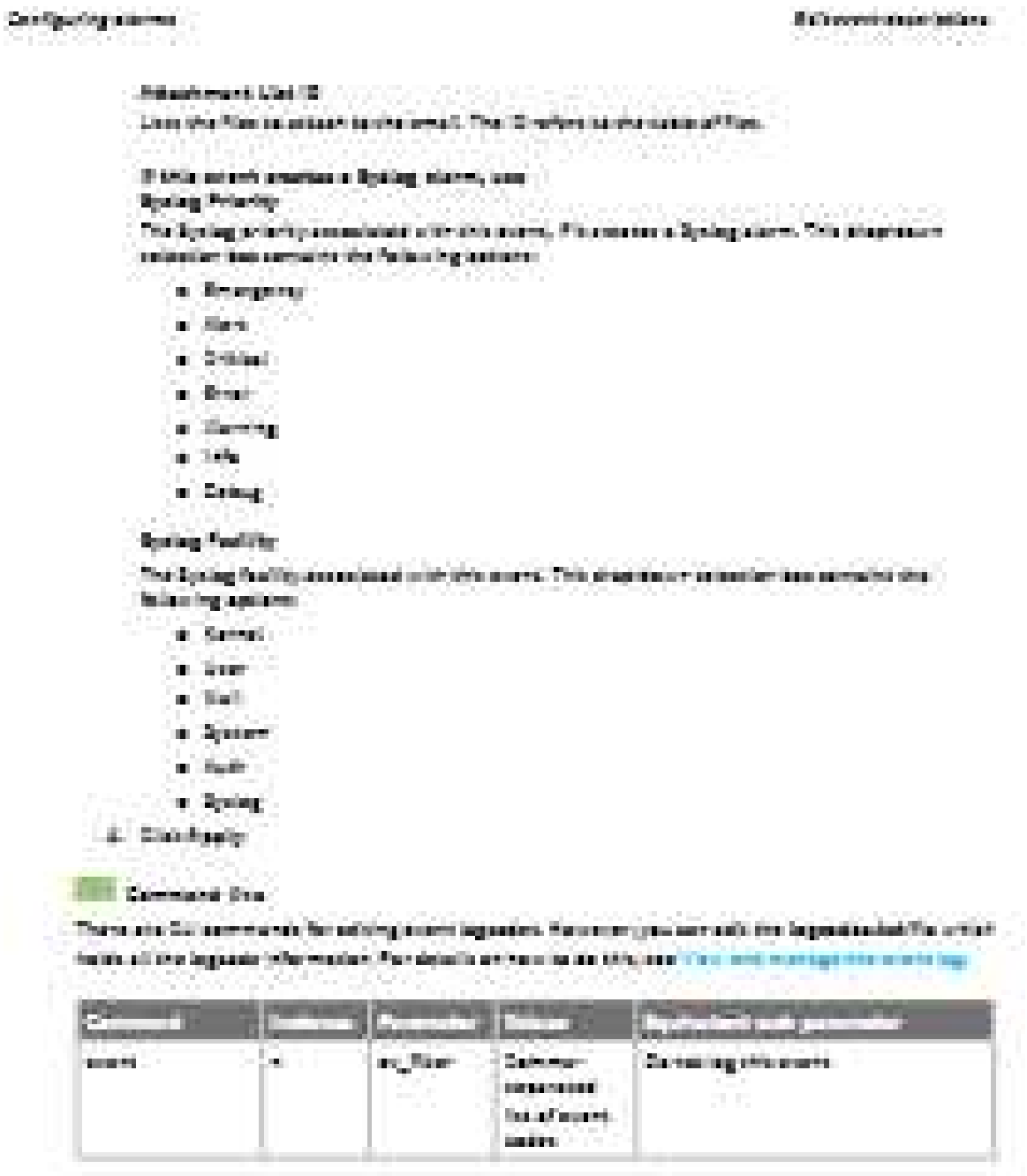
Configure event logs



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Configure handling of the reasons for an event



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Configure an SMTP email account to send alarms

Web



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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	=	[illegible]	[illegible]	[illegible]
[illegible]	=	[illegible]	[illegible]	[illegible]
[illegible]	=	[illegible]	[illegible]	[illegible]
[illegible]	=	[illegible]	[illegible]	[illegible]
[illegible]	=	[illegible]	[illegible]	[illegible]
[illegible]	=	[illegible]	[illegible]	[illegible]
[illegible]	=	[illegible]	[illegible]	[illegible]
[illegible]	=	[illegible]	[illegible]	[illegible]
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Configuring system settings

Set device identity parameters

Web

1. [illegible]



2. [illegible]

Description

[illegible]

Contact

[illegible]

Location

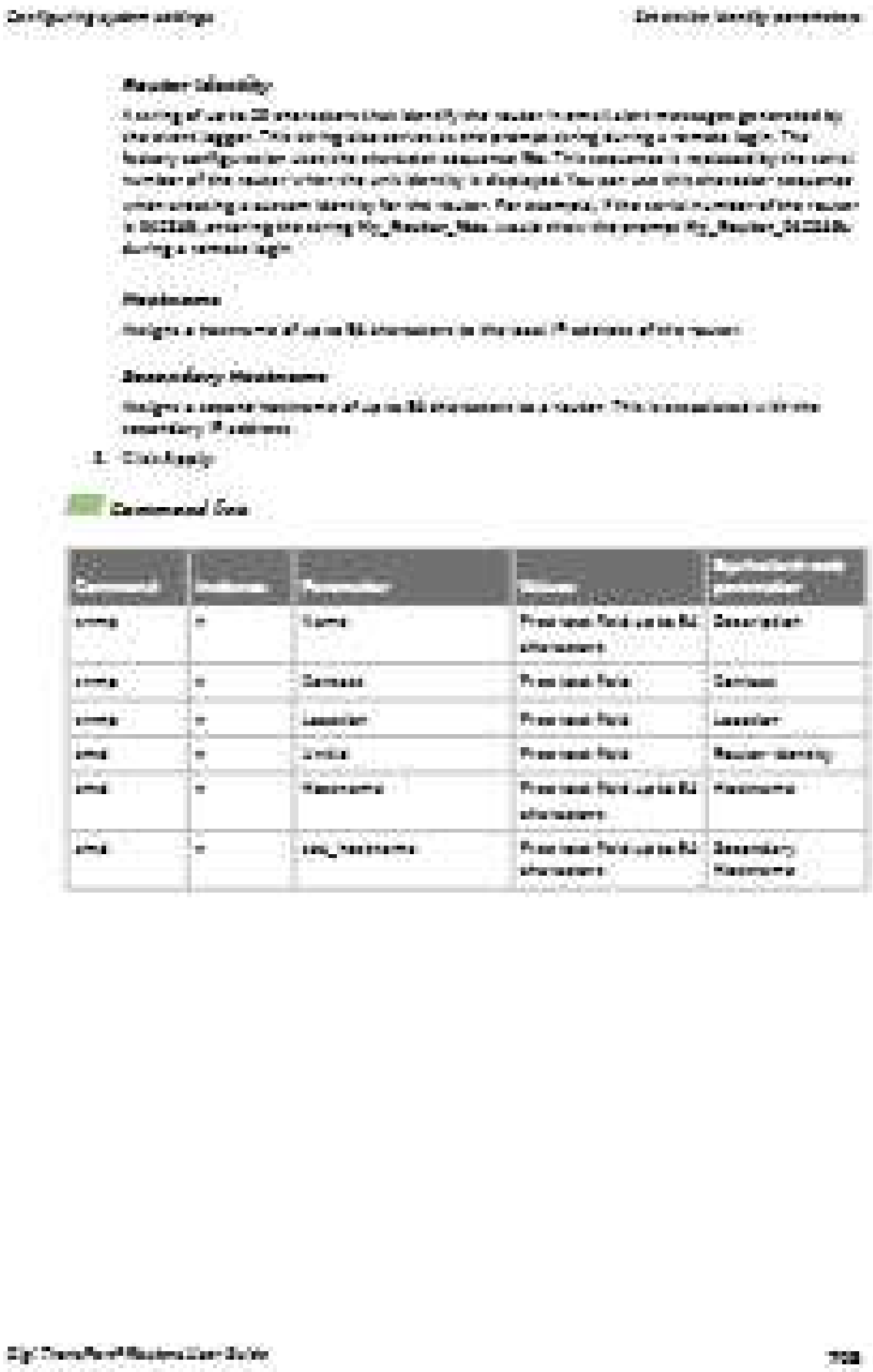
[illegible]

Device ID

[illegible]



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Set system date and time

Using NTP is recommended for greater accuracy

Set system date and time manually

Web

1. Go to Configuration > System > Date and Time.

2. Set date and time parameters.

Set and automatically update system time

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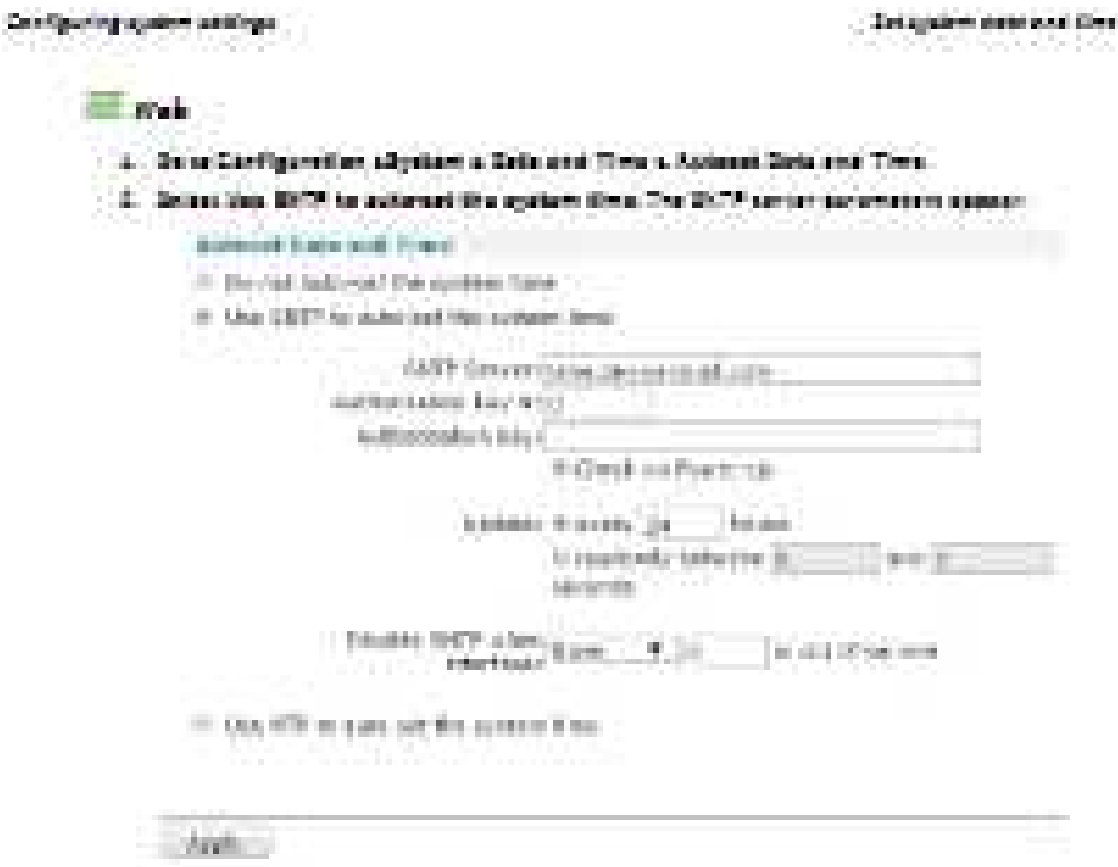
[illegible]

[illegible]

[illegible]

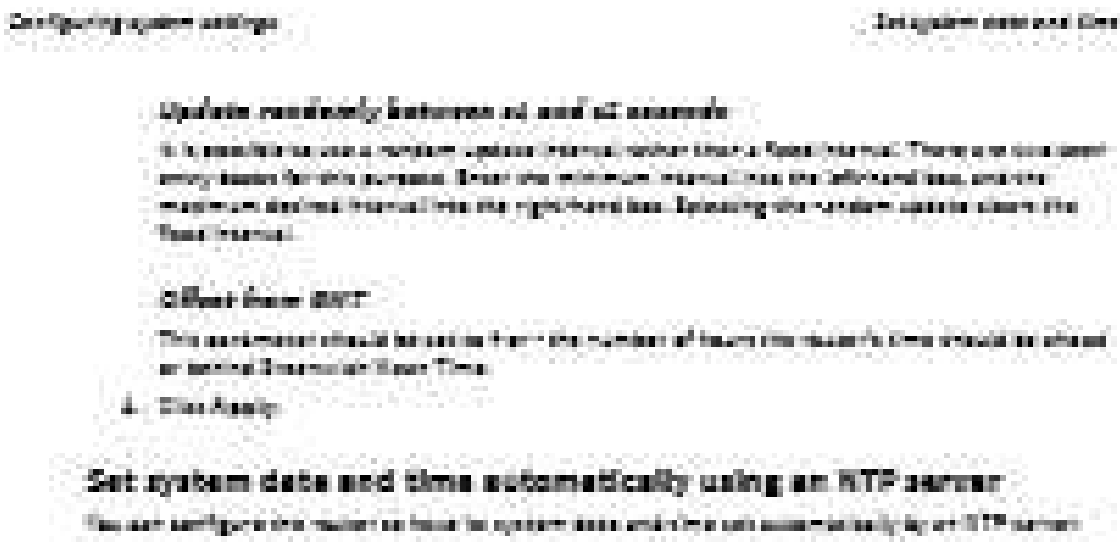


Set system date and time automatically using an SNTP server





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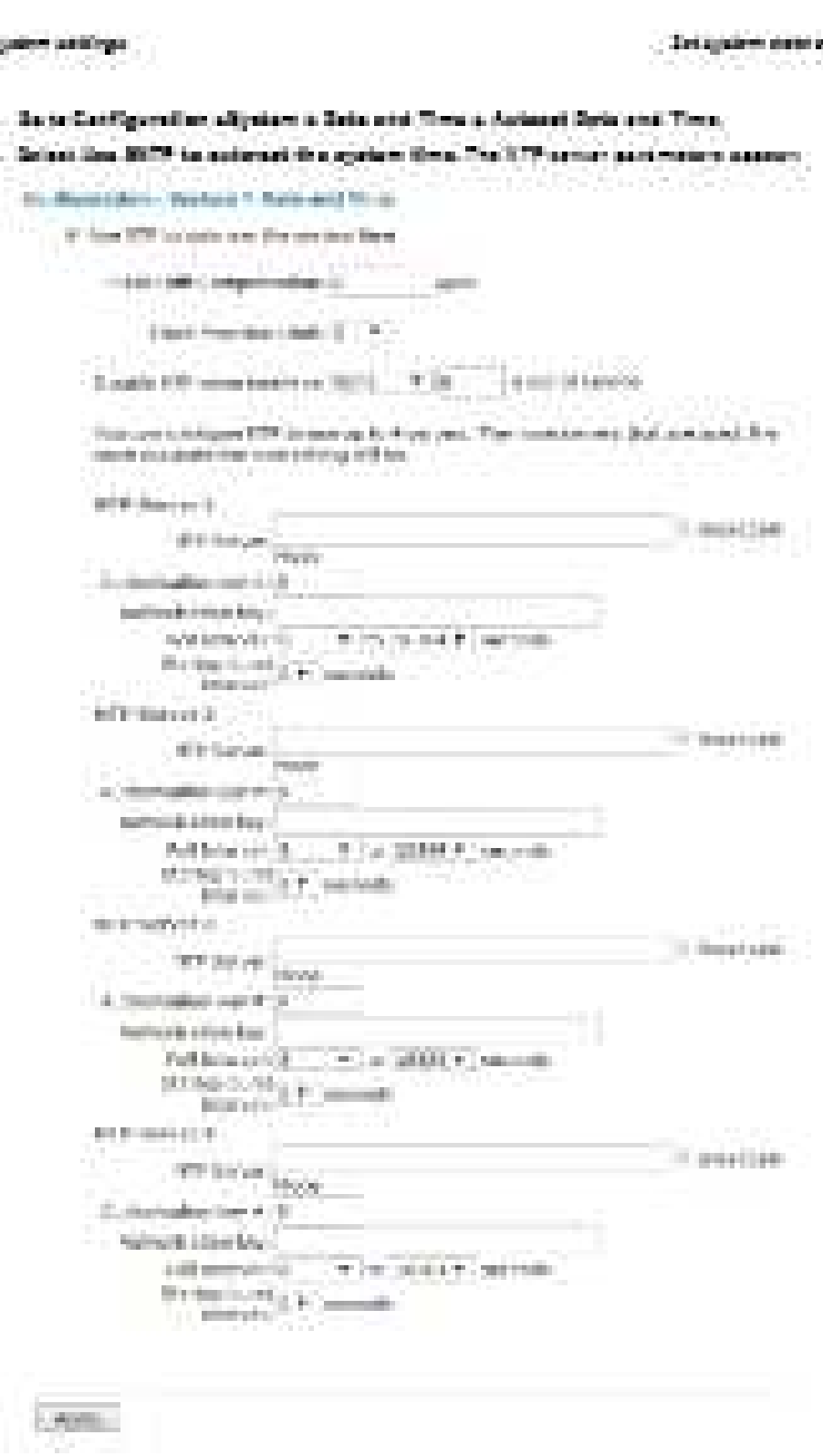


Set system date and time automatically using an NTP server

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[illegible]

1. [illegible]

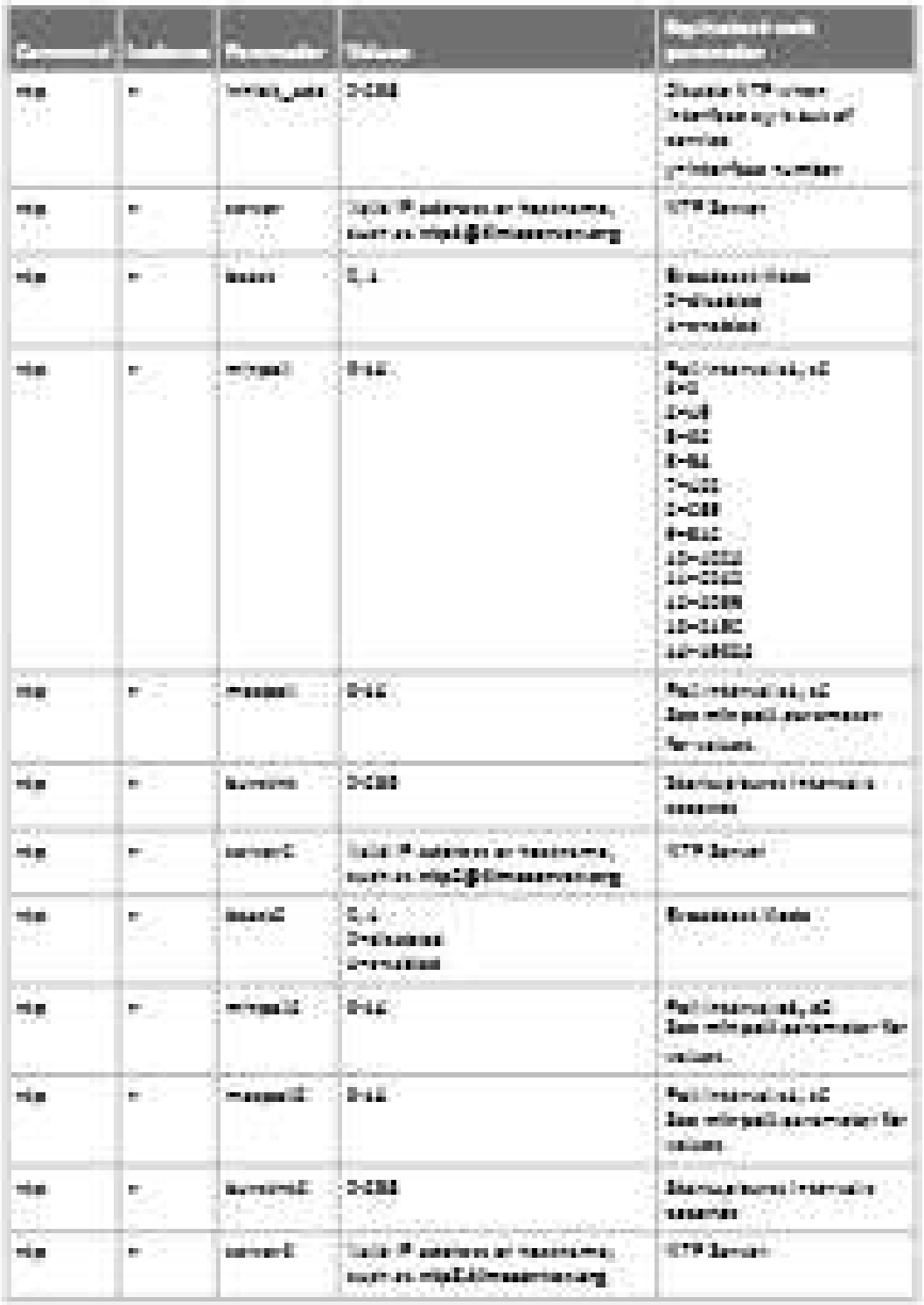
[illegible]

[illegible]

[



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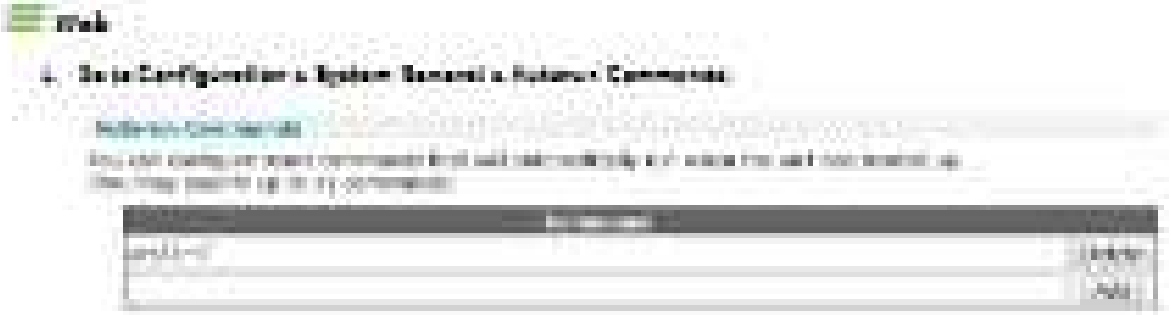
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ntpstat command: Check NTP client status

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Set commands to run automatically at bootup





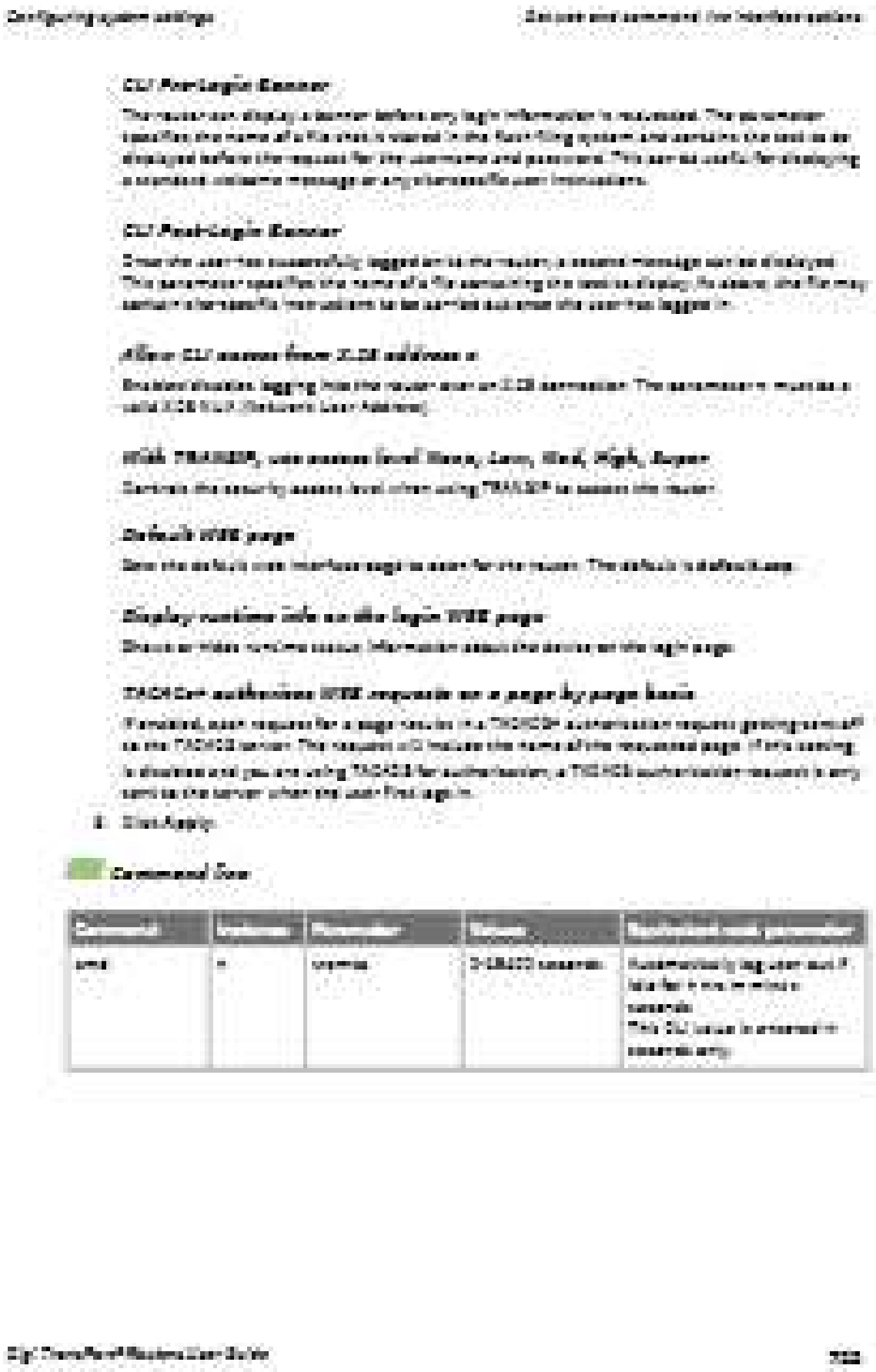
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Set web and command line interface options





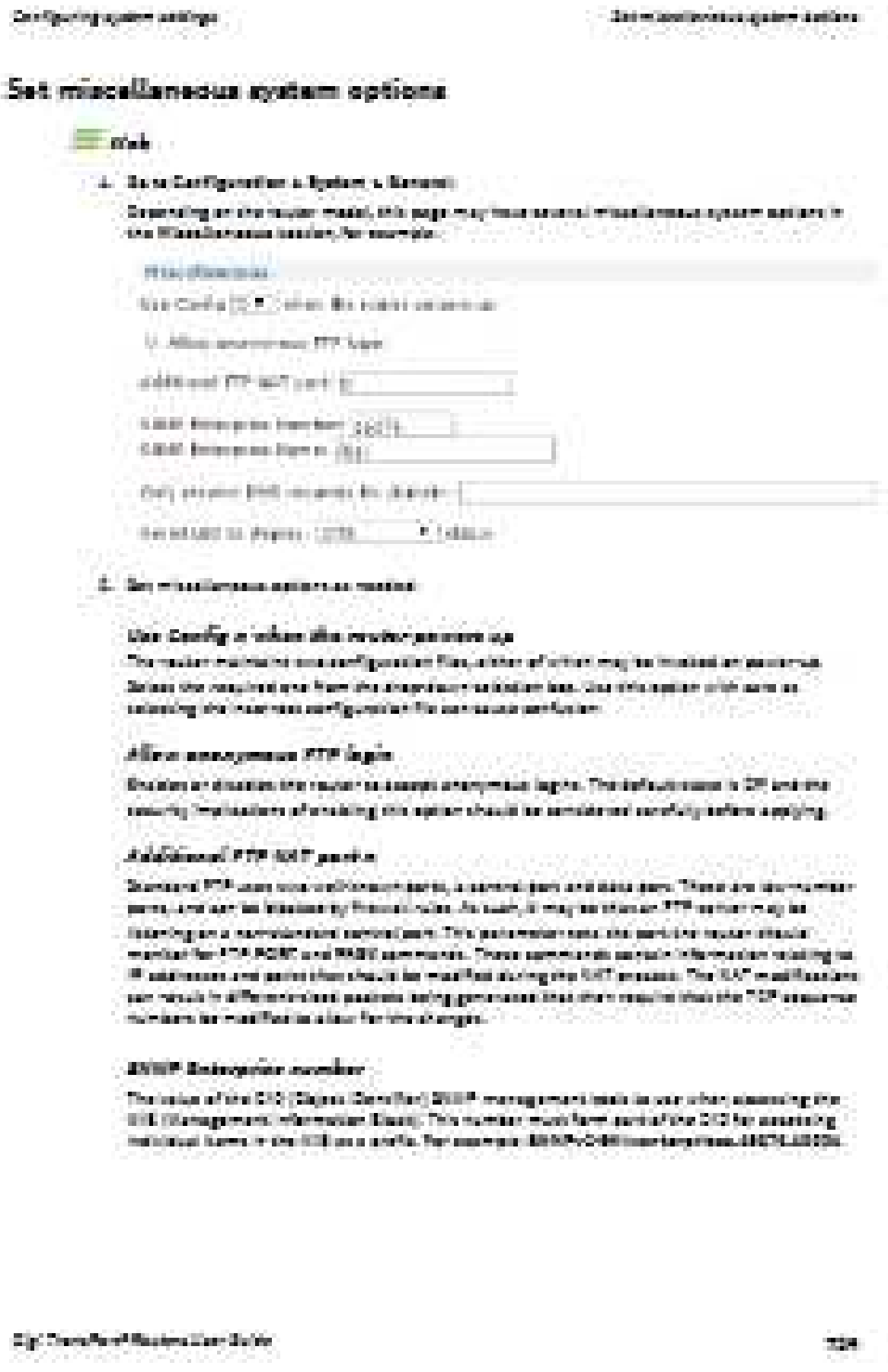
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Set miscellaneous system options

Web

1. Go to Configuration > System > Network.

Depending on the router model, this page may have several miscellaneous system options in the Miscellaneous section, for example:

2. Set miscellaneous options as needed.

Use Config to reduce the router's power up

The router maintains two configuration files, either of which may be invoked on power-up. Select the required one from the dropdown selection box. Use this option when you are reducing the router's configuration for the current session.

Allow anonymous FTP login

Enable or disable the router to accept anonymous logins. The default value is Off and the security implications of enabling this option should be considered carefully before applying.

Additional FTP NAT ports

Standard FTP uses two well-known ports, a control port and a data port. There are two modes of operation, and can be traversed by firewalls. As such, it may be necessary for FTP traffic to be forwarded on a non-standard control port. This parameter sets the control port number for FTP PORT and PASV commands. These commands contain information relating to IP addresses and ports that should be modified during the NAT process. The NAT modifications can result in different packet sizing, and this may require that the TCP sequence numbers be modified to allow for the changes.

SNMP Enterprise number

The value of the OID [Object Identifier] SNMP management tools use when accessing the MIB [Management Information Base]. This number must form part of the OID for accessing individual items in the MIB as a whole. For example, [illegible]

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Configuring system settings Serial and Device system settings

SNMP Enterprise Name

The name corresponding to the assigned Enterprise Number.

Only resolve DNS requests for domain

Entering a domain name here resolves DNS requests to the specified domain only.

LED to display Connection, PPP

On the front panel of the device there is an LED that you can use to display the status of the PPP connection. Use the dropdown selection box to choose what the LED displays. The PPP settings depend upon which of these two options are available on the router.

Serial LED to display Connection, PPP

On the front panel of the router is an LED dedicated to indicating the status of various signals on the asynchronous serial line. Use the dropdown selection box to choose which signal status to display. On modules fitted with [illegible], this LED has additional functionality; you can use this LED to display the [illegible] signal strength.

1. Click Apply.

Command Line

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
config	-	password	0..n	Use Config > enter the router password
snmp	-	enterprise	0..n 0=DNS (default) 1=On	Enable anonymous PPP login
snmp	-	[illegible]	0-65535	Add a new PPP NAT port
snmp	-	ent_no	0-65535	SNMP Enterprise Number Default:16572
snmp	-	ent_name	Free text field	SNMP Enterprise Name
snmp	-	enterprise	Valid Domain name, such as mydomain.org	Only resolve DNS requests for domain
snmp	-	general_mode	0..n	[illegible] LED to display [illegible], [illegible] 0=[illegible] 1=[illegible]
snmp	-	serial_mode	0..n	Serial LED to display Connection, PPP 0=Connection 1=PPP status 2=[illegible] signal strength

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Set power control options

Functional areas for saving power

Power control profiles

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Additional information on power control

Web

1. Go to Configuration > System > Power Control. The currently selected power control profile is shown in the Current profile field. By default, Profile 1 is selected. Each power control profile has these settings:

   CPU speed

   LEDs

   Wireless Module

   GPS

   RS485

   Ethernet

   IPv6

   DIO

   USB

2. Click Apply.

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Set temperature monitoring

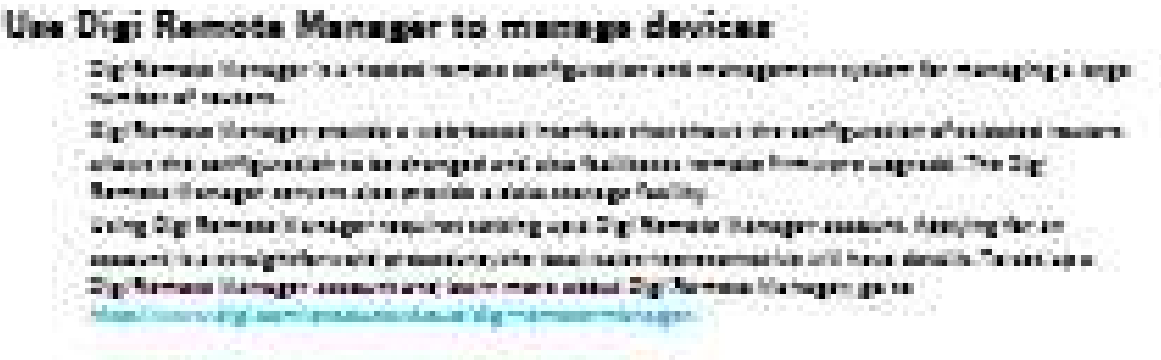
Web

Command line

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Configuring remote management

Use Digi Remote Manager to manage devices



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Configure Digi Remote Manager

Use

1. Go to Configuration > Remote Management.
2. Set the following values:

Enable Remote Management using a client-initiated connection

Displays the basic configuration parameters and enables the router to make the connection to the Remote Manager server.

Server Address

The IP address or (more usually) the domain name of the Remote Manager host. This information will be supplied when your Remote Manager account is activated.

Automatically reconnect to the server after being disconnected

The protocol for communicating with the server allows the router to detect that it is no longer connected to the server. Enabling this setting causes the router to attempt to reconnect when it detects that the connection has been lost.

Reconnect after X hours or minutes of inactivity

The interval to wait before attempting to reconnect to the server.

Password/Confirm password

The authentication password for connecting to the server.

Use SSL

Enables or disables use of SSL on the remote management connection.

3. Click Apply.

Command line

Command	Instance	Parameter	Value	Description
cloud	1	enable	0,1	Enable Remote Management Configuration using a client-initiated connection 0=Off 1=On
cloud	1	server	"dds.IP address such as 10.0.0.1 or domain name such as mgt.mycompany.com"	DNS Resolve Server Address only when a default route is IP

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[illegible]

Configure using SMS messages for remote management

[illegible]

- [illegible]
- [illegible]
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1. [illegible]
2. [illegible]

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Enable device health reporting

[illegible]

[illegible]

[illegible]

1. [illegible]
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3. [illegible]

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Configure advanced remote management settings

The main group of Remote Manager settings, along with the system defaults, are sufficient to establish a connection to the Remote Manager server. The settings in the Advanced section allow you to fine-tune the Remote Manager connection.

Advanced remote management settings control reconnect behavior of connection. When the router first connects to the Remote Manager server, the first parameters are sent to it. The DNS settings and Ethernet settings described below are identical, but it should be noted in the command line descriptions, the default connection intervals are different when connected to IPv4 and Ethernet links.

Web

1. Go to Configuration > Remote Management > Remote Manager > Advanced.
2. Configure the Connection Settings, as needed.

   Connect using a proxy

   The router connects using HTTP over proxy.

   Proxy Port

   When Connect using a proxy is enabled, this value is the proxy host port.

   Proxy URL

   When Connect using a proxy is enabled, this value is the URL of the proxy server on which the router connects.

   Disconnect when Remote Manager is idle

   Once the router has connected to the Remote Manager server and the server has established that all the settings it holds for the router are current, and no new changes are being requested, the traffic between the router and Remote Manager server reduces to the sending of keepalive packets. In this situation, it may be advantageous to terminate the connection to reduce bandwidth or to keep data costs down. Enabling this setting causes the router to negotiate termination of the connection.

   Idle Timeout in hours, minutes, seconds

   The timeout entered here defines how long the router should wait after sending the idle connection before negotiating termination of the link. Default is 00:00:00.

   Data Service Token : Confirm data service token
3. Configure the WAN Settings, as needed.

   Reconnect Interval, seconds

   The time between reconnection attempts that the router should wait before reconnecting if the connection may be lost.

   Transmit Interval, seconds

   The interval between transmission of keepalive packets.

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Use SNMP for remote management

Supported SNMP versions

Supported Management Information Bases (MIBs)

ethernib commands

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Configure SNMP settings

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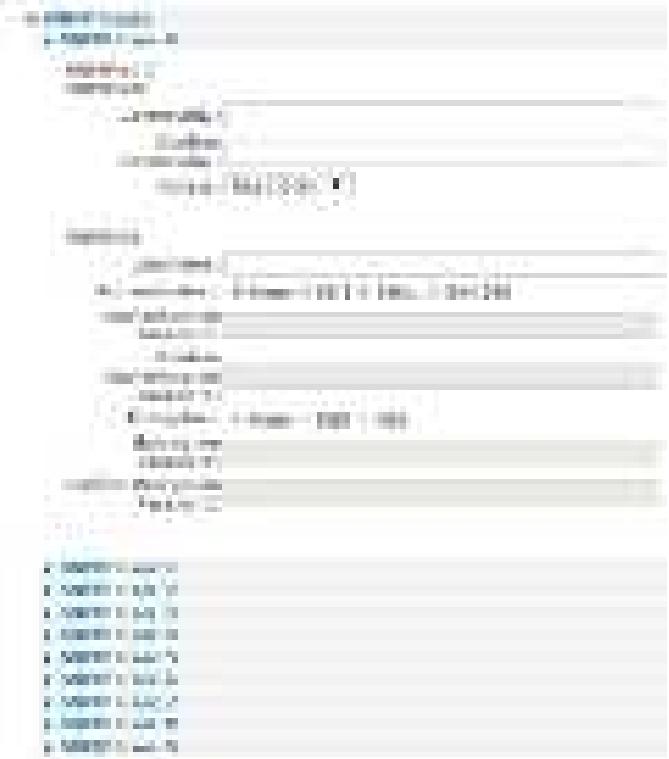
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Configure SNMP users

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Configure SNMP filters

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Web

1. [illegible]
2. [illegible]



Username

[illegible]

OID Prefix

[illegible]

Add

[illegible]

Delete

[illegible]

3. Click Apply.

Command line

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	user	username	Username
[illegible]	[illegible]	oid	Valid SNMP OID	OID Prefix

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Configure SNMP traps

Web

1. Go to Configuration > Remote Management > SNMP > SNMP Traps.
2. Specify which types of SNMP traps you want to generate.

   Generate Enterprise traps
   Enables or disables generation of enterprise traps.

   Generate Generic traps
   Enables or disables generation of generic traps.

   Generate Authentication Failure traps
   Enables or disables generation of authentication failure traps.

   Generate VRRP traps
   Enables or disables generation of VRRP traps.
3. In SNMP Trap Server 1, configure the settings for SNMP trap server 1.

   Trap Server IP Address
   The IP address for the SNMP trap server.

   Port
   The network port number for the SNMP trap server.

   Use Interface Interface type and number to use for the source IP address
   The interface type and number to use for the source IP address. Interface type can be Auto, PPP, or Ethernet.

   Use SNMP Version
   The SNMP version to use: SNMPv1, SNMPv2c, or SNMPv3.

   Send "Inform Request" messages
   Enables or disables sending the trap as an Inform Request message, which requires an acknowledgement from the receiver. Retry sending is enabled when sending an Inform Request.

   If no response, retransmit the Inform Request message after n seconds
   Sets the Inform Request to be retransmitted if there is no response from the receiver after the specified number of seconds.

   Retransmit the message n times
   Sets the number of times to retransmit the Inform Request message.

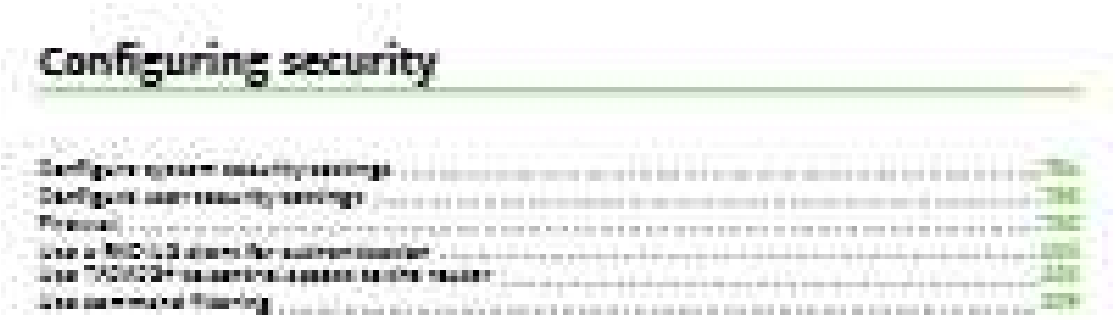
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Configuring security



Configure system security settings

web

4. Go to Configuration > Security > System

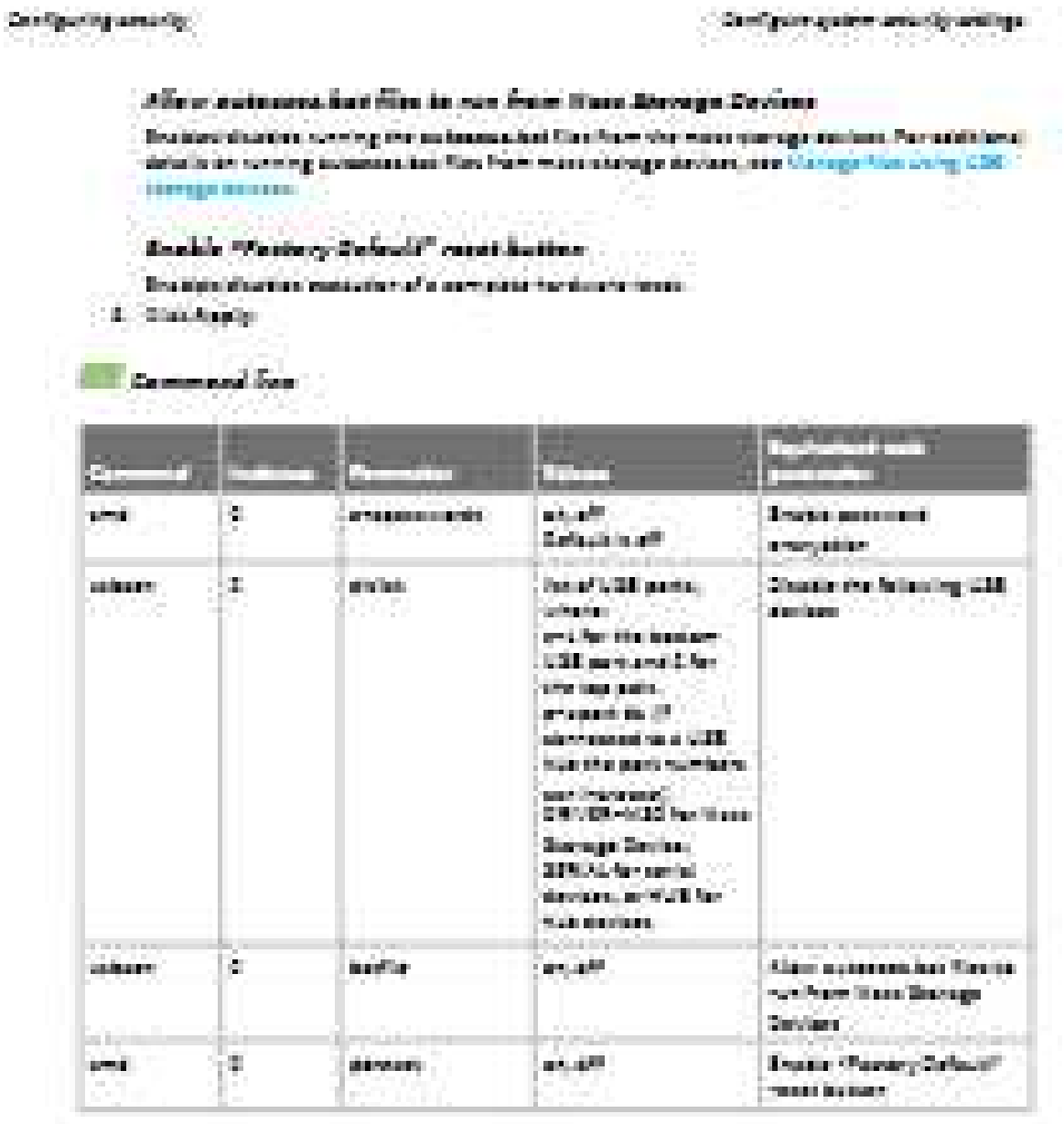
5. Configure settings for system security, securing USB devices, and miscellaneous security settings.

Disable password encryption

USB Security

Disable the following USB devices

- Printers
- Mass storage devices
- Serial devices
- Hub devices



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Configuring security Configure user security settings

Configure user security settings

Web

1. Go to Configuration > Security > User.

   The User administration page allows you to configure several authorized users. The number of users available depends on the firmware build the router is running. Each user has a password and access level that determines the facilities to which the user has access.

2. For each user, configure the user parameters.

   Username

   The name of the user. Usernames can be up to 32 characters long. You can use some special characters.

Parameter	Description
%s	Uses the serial number of the router as the username.
%i	Uses the IMEI of the cellular module as the username.
%g	Uses the ICCID of the SIM as the username.

   For %g to be used as the username, you must enter a value for the router as an access character. For example, user%g would be created as user%g.

   Password / Confirm Password

   The password for the user. Up to 64 characters are allowed.

   Access Level

   Defines the access level for the user. There are the following options:

Access Level	Description
Super	Allows full access to all facilities.
High	Allows user to reconfigure the general configuration of the router and to change some settings such as the time and date. Has access to manage user settings.
Medium	Allows user to access most but not all configuration commands, unlike other user types, cannot configure all the router.
Low	Allows user to access but not change some of the router's settings and monitor parameters.
Read Only	Read only access to the configuration.
None	User is not allowed to login via Web, CLI, SMS, and Telnet.

Digi TransPort Router User Guide 753



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Configure advanced user settings

1. Go to Configuration > Security > Users > Username: Advanced.
2. Enter and change advanced user settings as needed.

Allow this user to log in over a [illegible] network

Enabling this setting allows the user to log in to the router using [illegible]. Disabling this disables [illegible] login for the user, no matter their access level.

Use this number when [illegible] dialback is required for this user

The telephone number for the user in the event that dialback is required. The username that the remote router uses during the [illegible] authentication identifies the username of the user whose dialback number is configured, the user's dialback number overrides any dialback number configured in the answering [illegible] interface.

Alternate IKE Key / Confirm Alternate IKE Key

When IKE is the initiator, the negotiation succeeds if IKE is enabled using the normal authentication passphrase. If the IKE negotiation fails, the Alternate Key is tried. The initiator remembers which authentication was successful, and uses that password to initiate the next IKE negotiation. If the IKE responder receives an IKE negotiation that uses the alternate key, it remembers which authentication was successful, and uses that password to respond to the next IKE negotiation. If the IKE responder receives an IKE negotiation that uses the alternate key, it should be possible to configure new passwords (the main passphrase and the alternate key), and not have too many failed negotiations. The process would be to add the Alternate Key to the remote routers then update the local router with the Alternate Key. Once this has been done, the administrator would move the Alternate Key to the usual location. Password and remove the Alternate Key (password) from the configuration. Should a negotiation take place during the period where the Alternate Key has been entered into the remote routers, but not the local router, there should be no more than one failed negotiation, and only if the remote router is the initiator.

Remote Peer IP address

In certain circumstances, it may be desirable for a user connecting to an [illegible] connection to be allocated a specific IP address, rather than be allocated an address from a pool configured on an [illegible] interface. When this parameter is configured, the IP address negotiated on the [illegible] interface is ignored, and not an address from the regular IP address pool.

Remote Peer IP subnet

If multiple [illegible] interfaces are enabled for answering and multiple remote routers can dial into the local router, the router cannot always use source routing to ensure that packets which should be routed to the remote network are sent through the correct [illegible] interface. Use this parameter with the Remote Peer IP subnet mask parameter to associate a network subnet with a user. When a remote user connects to and authenticates with the router, the router creates a dynamic route that will override any static routes for the duration of the [illegible] session. The interface for the dynamic route is the [illegible] interface that answered the call. The network address for the dynamic route comes from the entry in the user table matching the username the remote unit used during [illegible] authentication.

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Firewall

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Configure firewall rules

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]

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Configure stateful inspection settings

TCP Opening a session

TCP Open a session

TCP Closing a session

TCP Closed a session

UDP a session

ICMP a session

Other protocols a session

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Use firewall scripts

- [redacted]

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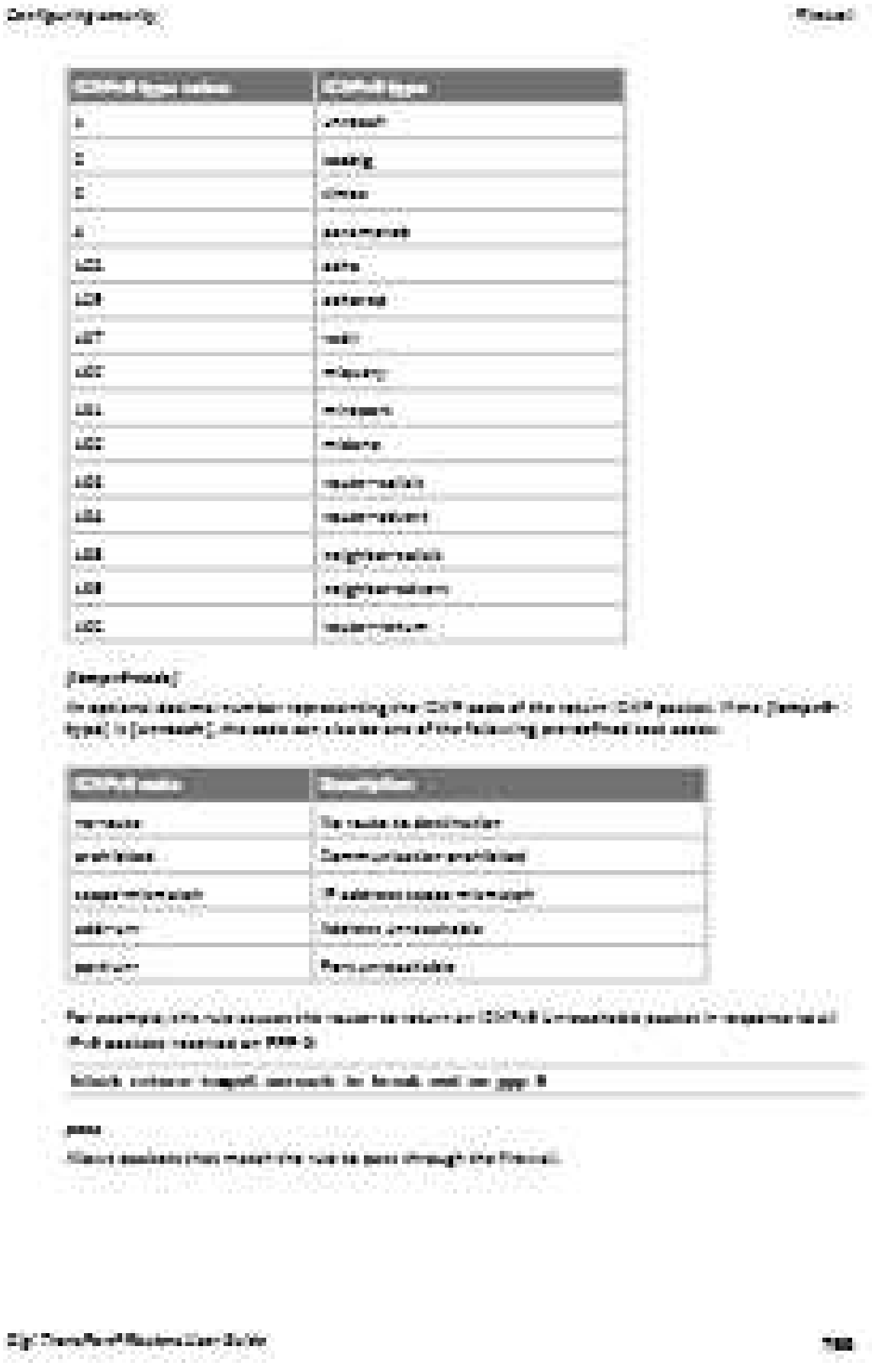




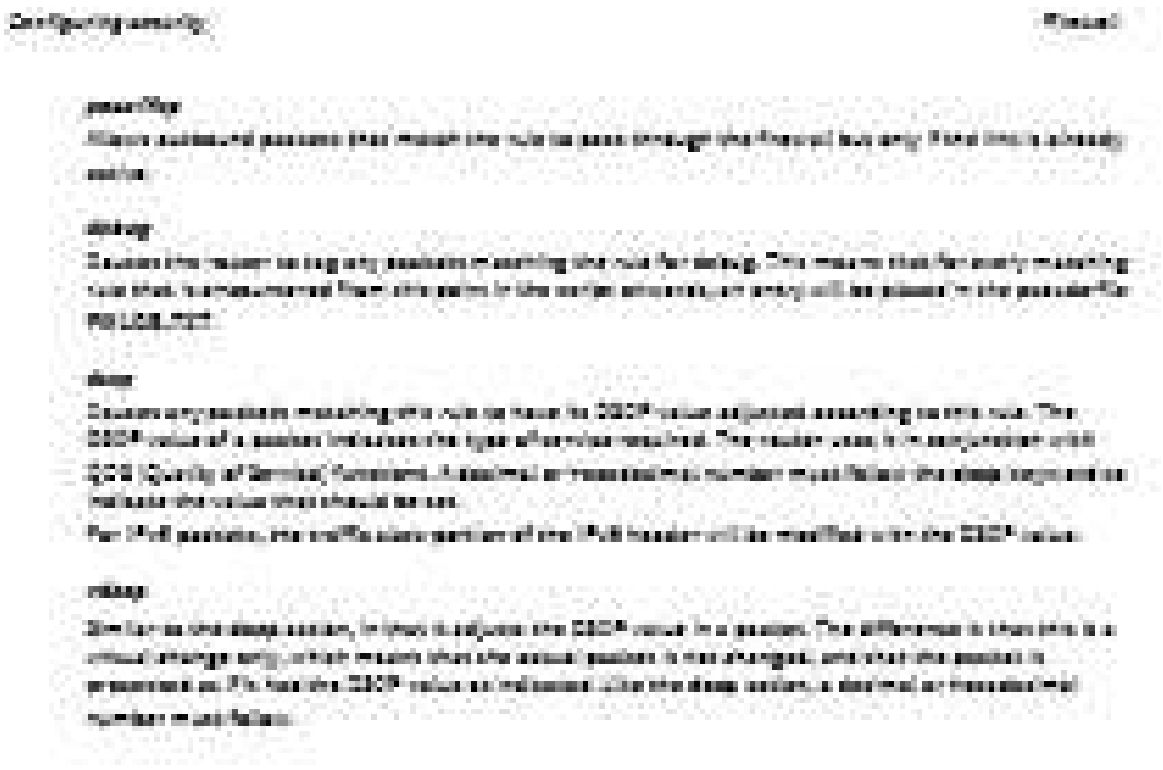
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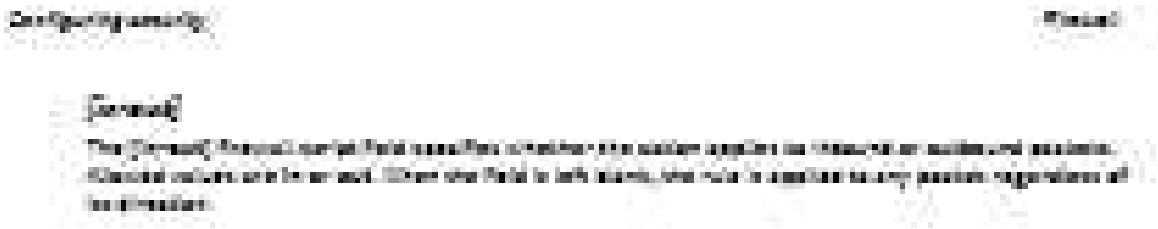
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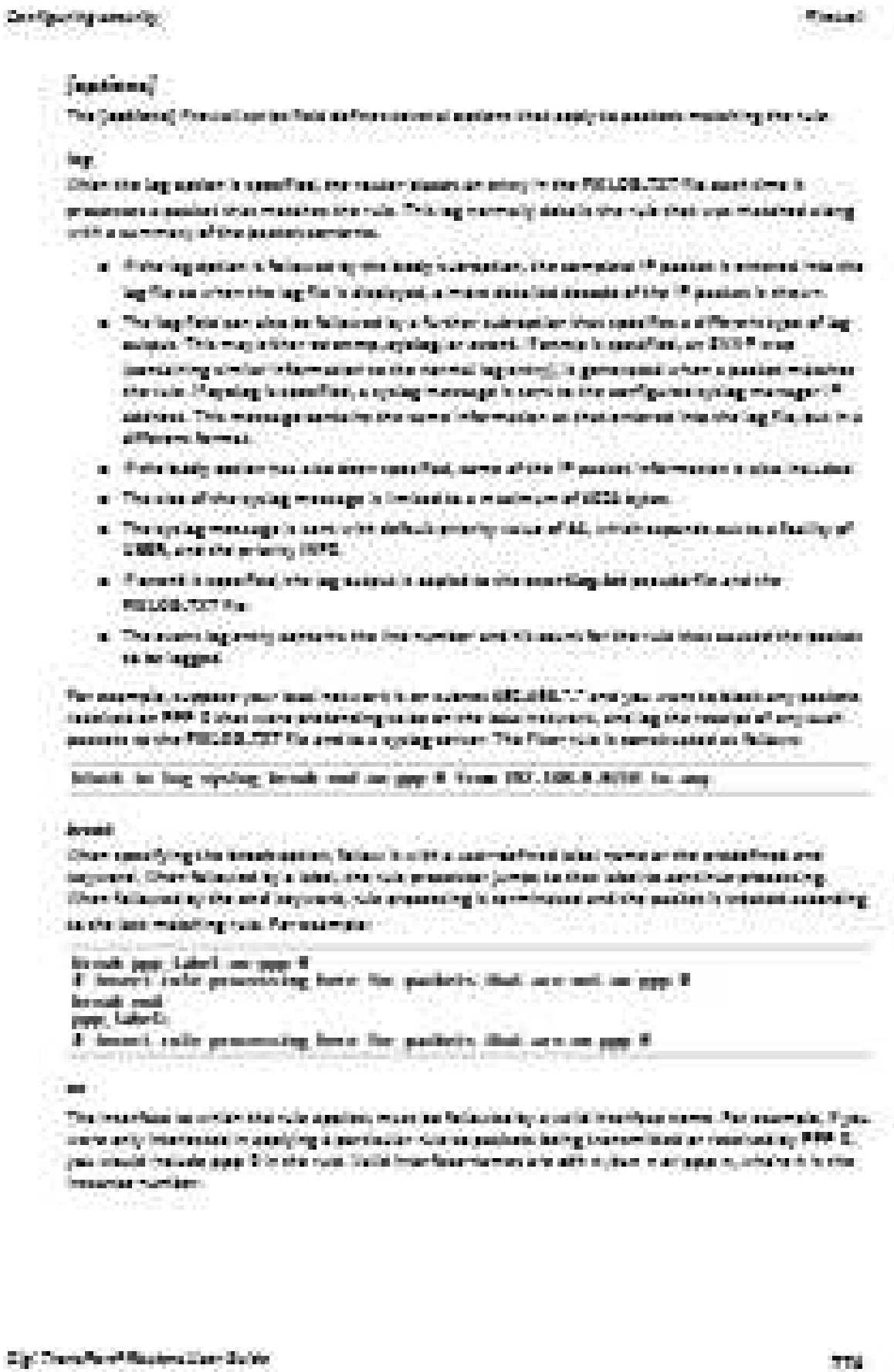
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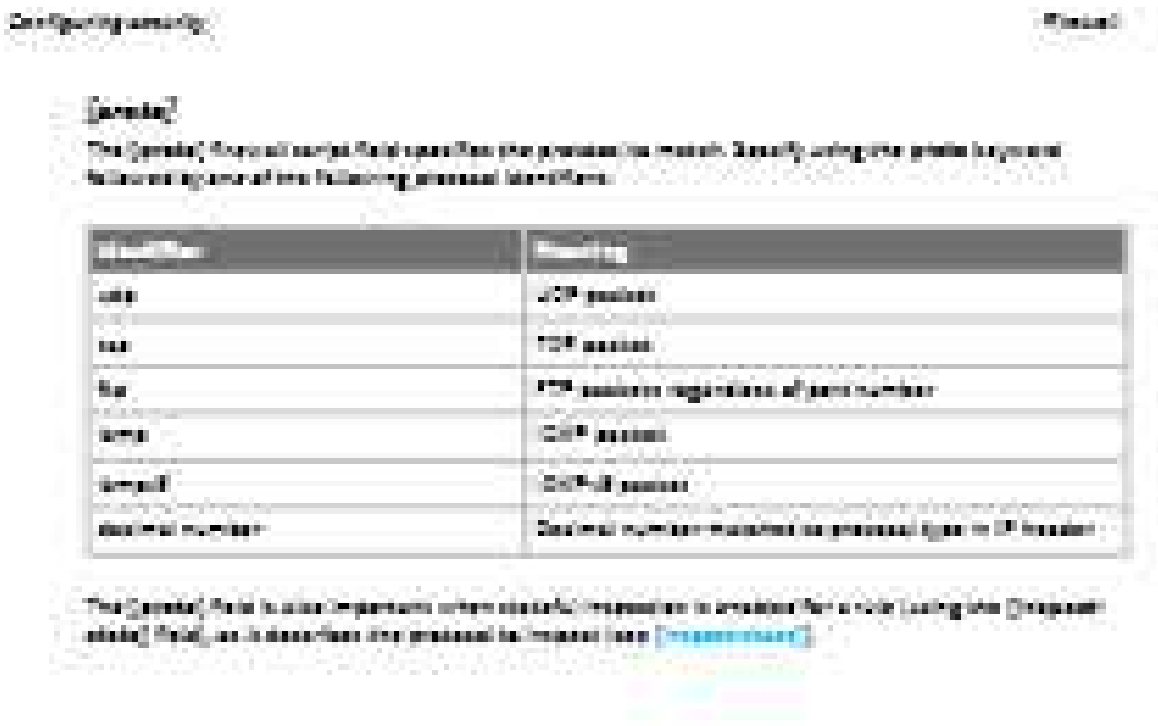












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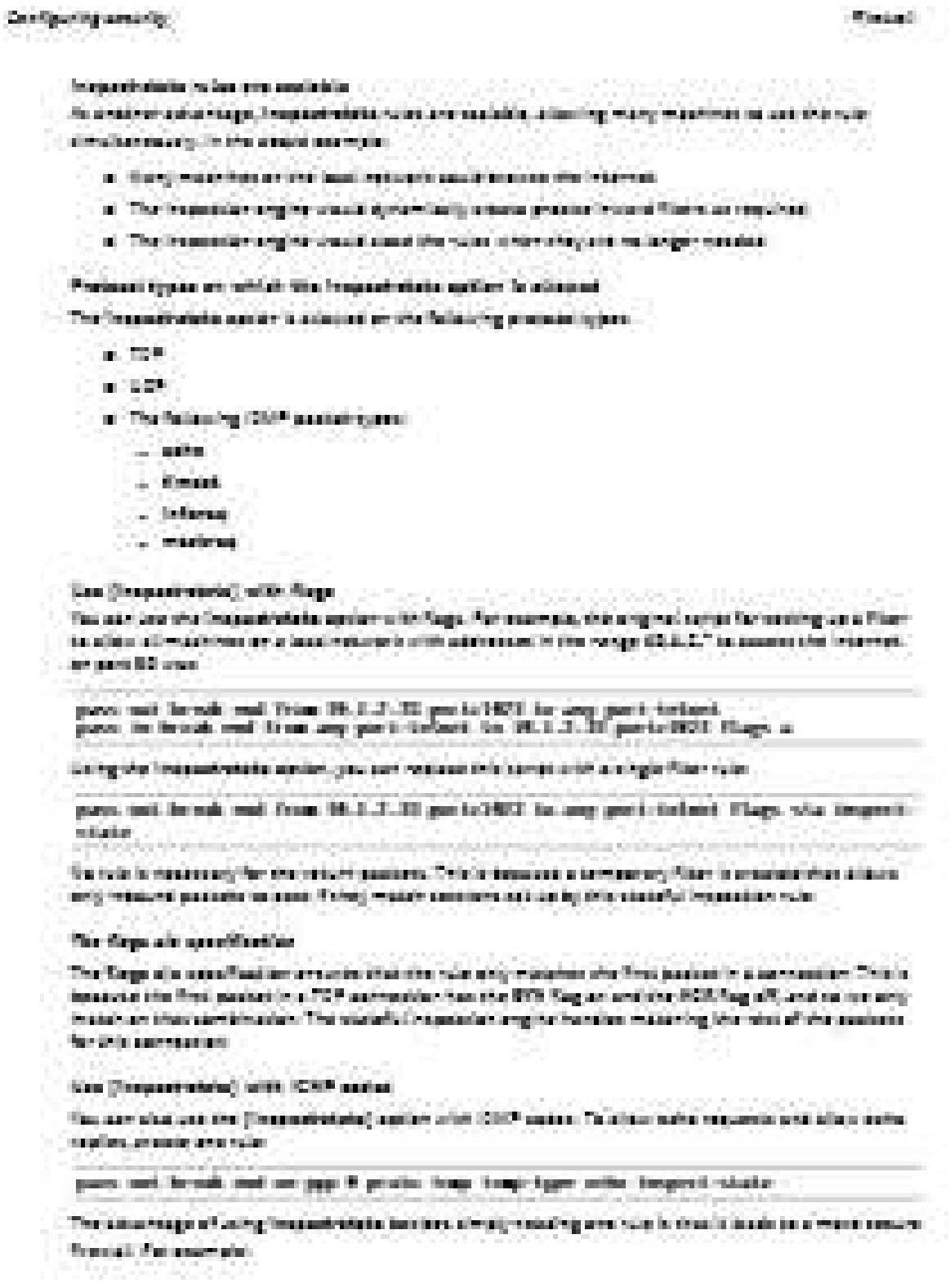
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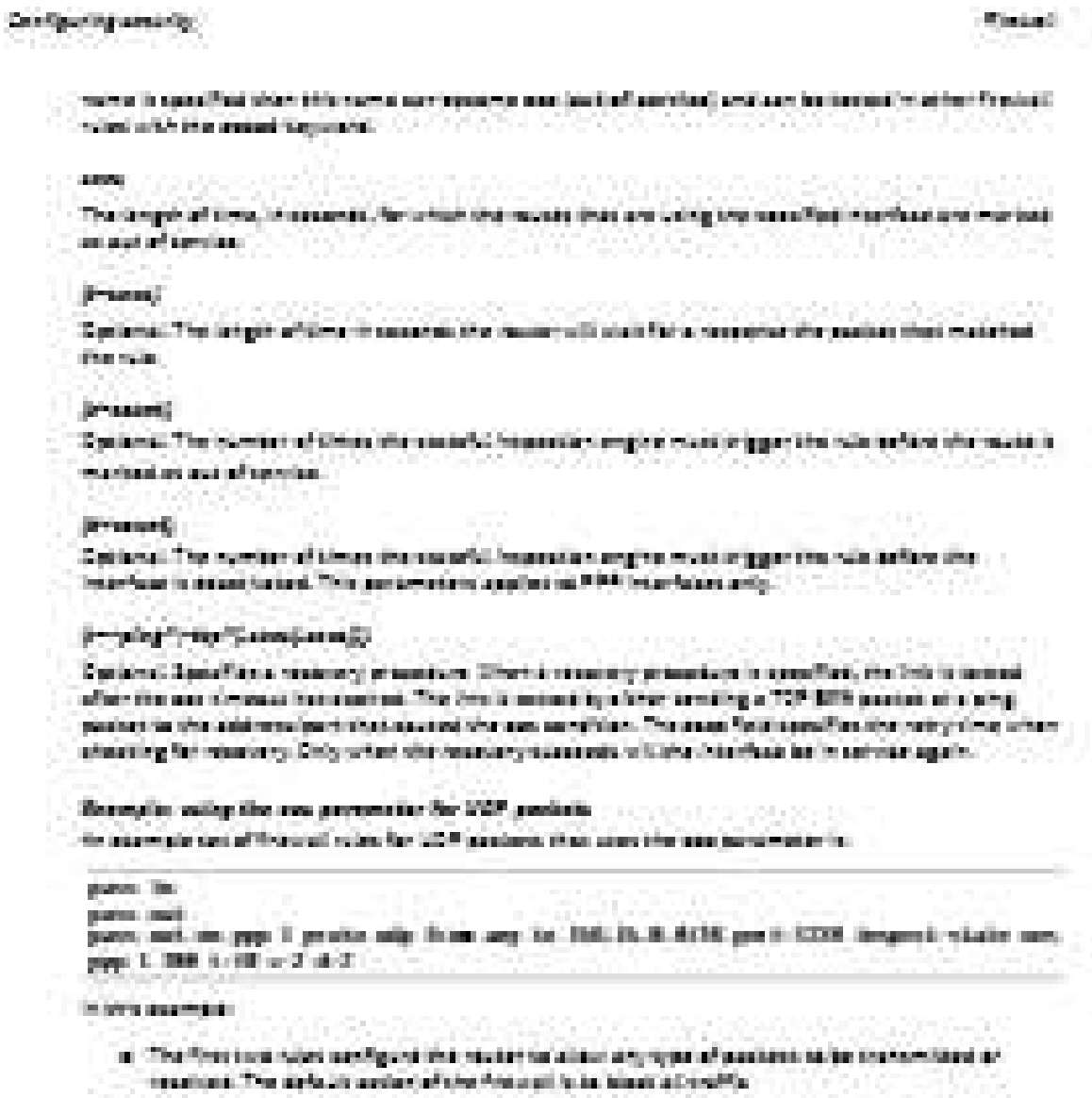
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[illegible]

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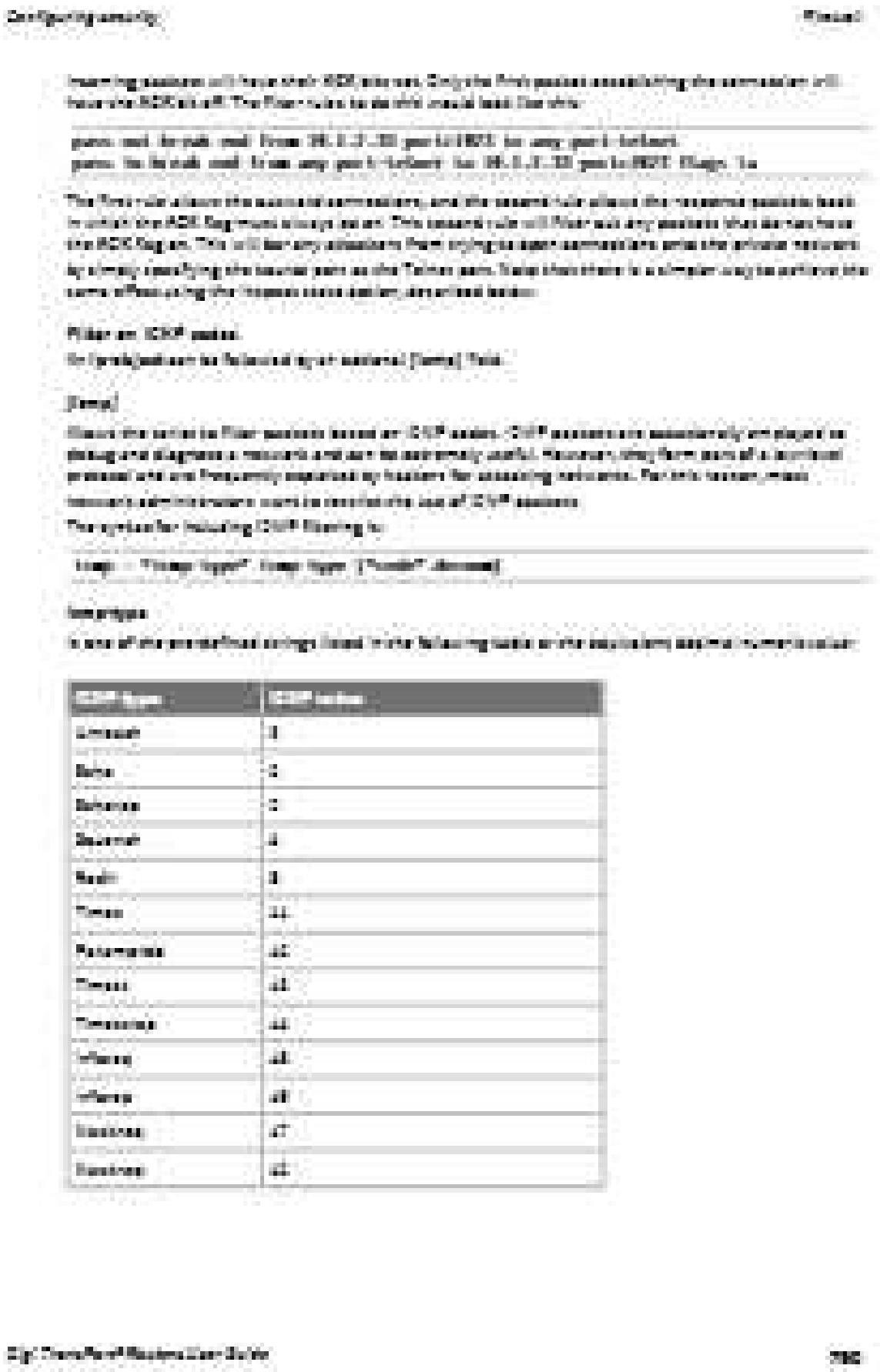
[illegible]

[illegible]

[illegible]

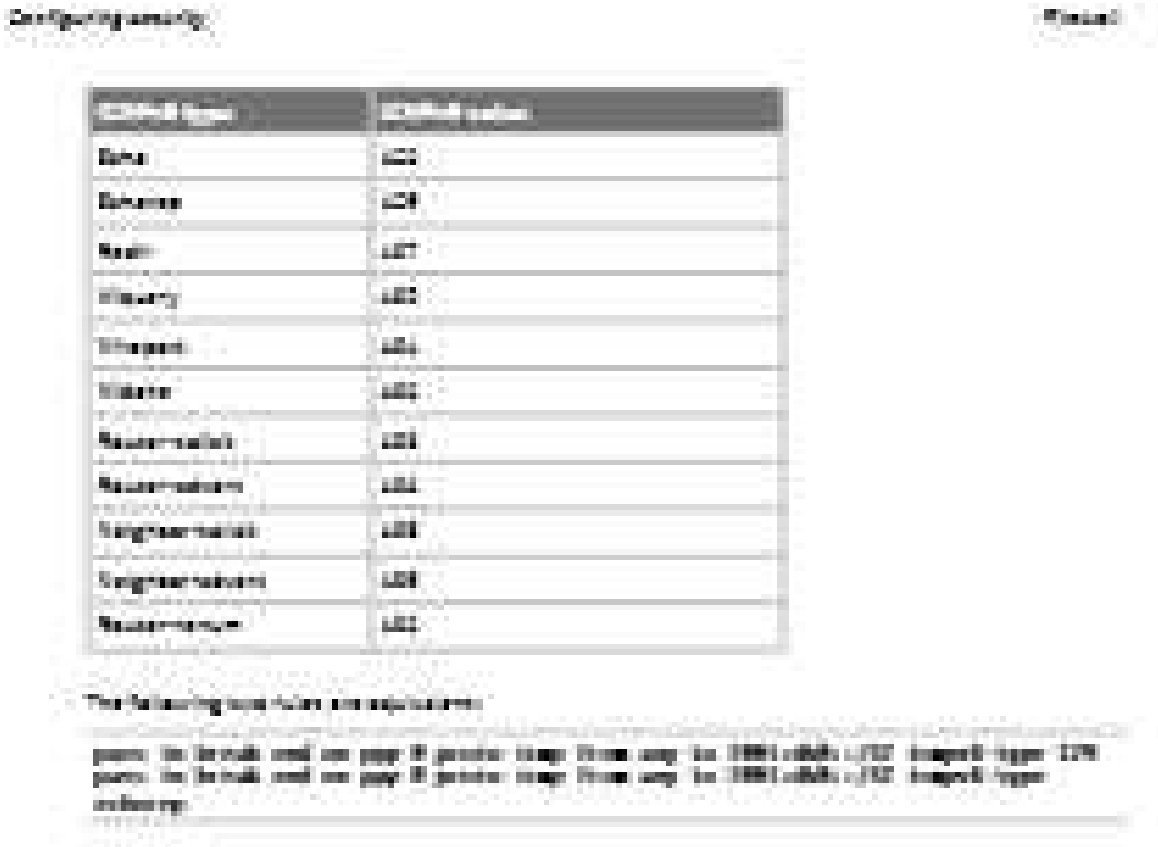
[illegible]

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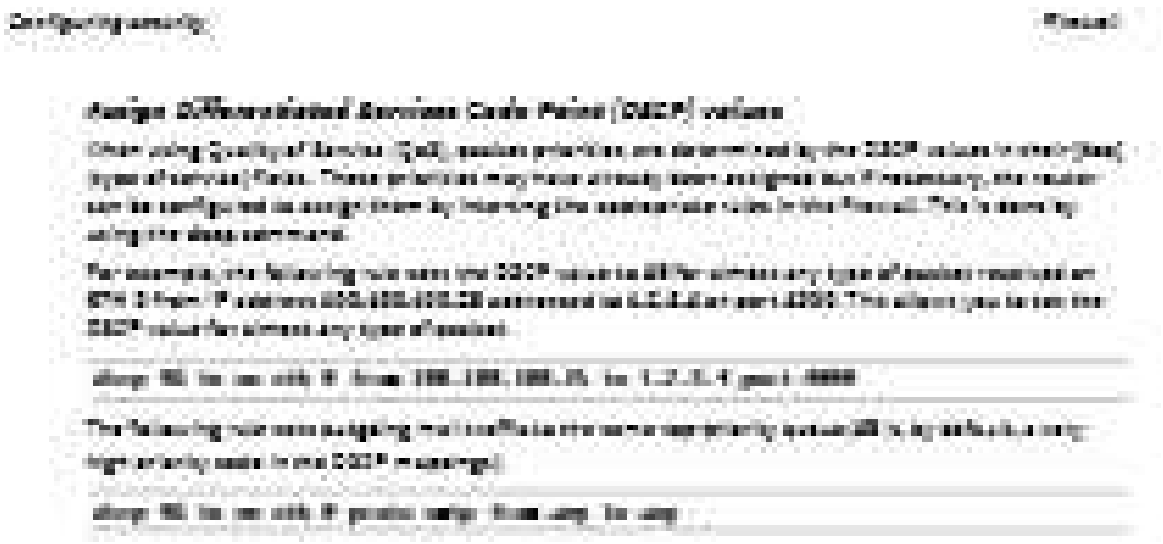




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[illegible]

Log firewall events

[illegible]

[illegible]	[illegible]
Timestamp	[illegible]
Short Description	[illegible]
Dir	[illegible]
Line	[illegible]
Rule	[illegible]
Rule	[illegible]
Source IP	[illegible]
Dest. IP	[illegible]
ID	[illegible]
TTL	[illegible]
PROTO	[illegible]
Src Port	[illegible]
Dst Port	[illegible]
Rule Text	[illegible]

[illegible]

Example log file entries

Log entry without the body option

```
[illegible]
```

[illegible]

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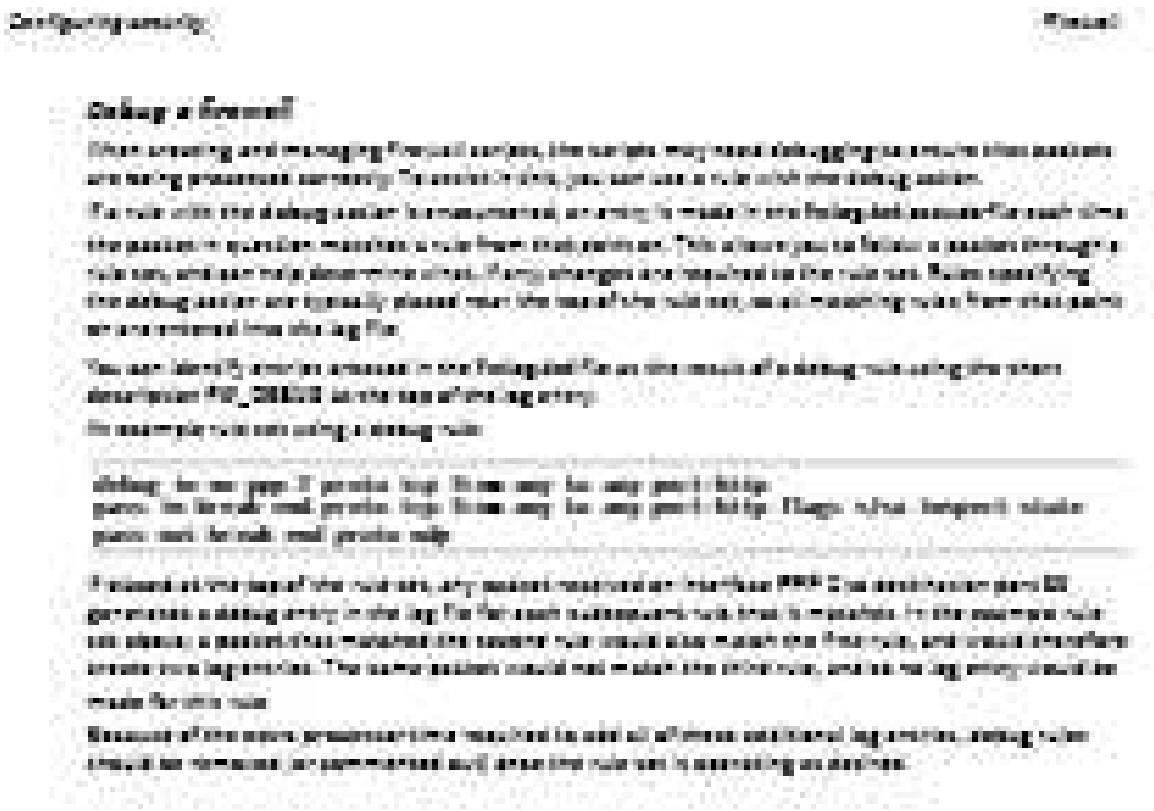




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Use a RADIUS client for authentication

Web

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Authentication
Primary Authentication Server

IP Address or Domain
The IP address of the primary authentication RAS.

RAS ID
An identifier passed to the primary authentication RAS. Identifies the RAS client. The primary authentication RAS administrator supplies the necessary key value.

Password
The password supplied by the primary authentication RAS administrator. This password and the primary authentication RAS ID are entered as authentication RAS client values.



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Configure advanced RADIUS client parameters

1. Go to Configuration > Security > RADIUS > RADIUS Client > Advanced.
   Enter advanced settings as required.
   - Use Source IP Address
     If required, select an alternative source interface and address. Select the required interface from the dropdown list and enter the interface address in the next box. Interface options are:
     - Auto
     - PPP
     - Ethernet
   - If there is no response from the server
     Retransmit the request after x seconds
     The interval between retransmissions of RADIUS packets.
   - Stop the negotiation after x retransmissions
     The maximum number of times RADIUS packets should be retransmitted to the RAS before the negotiation is deemed to have failed.
   - Stop the negotiation if there is no activity for x seconds
     The inactivity period after which the negotiation procedure is considered a failure.
2. Click Apply.

Command line

radius	1	ip_src	[illegible]	Use Source IP Address
radius	1-n	retransmit	[illegible] Default: 0	Retransmit the request after x seconds
radius	1-n	retries	[illegible] Default: 0	Stop the negotiation after x retransmissions
radius	1-n	inactive	[illegible] Default: 60	Stop the negotiation if there is no activity for x seconds

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Use TACACS+ to control access to the router

Functions of the AAA services

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TACACS+ to local privilege level mappings

[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

Web

[illegible]

1. [illegible]
2. [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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[illegible]

Enable local authentication (if there is no response from the server(s))

[illegible]

Enable TACACS+ Authentication

[illegible]

Enable TACACS+ Authorization

[illegible]

Enable TACACS+ Accounting

[illegible]

1. [illegible]

Command Use

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible] [illegible]

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Configure advanced TACACS+ security settings

Web

1. Go to Configuration > Security > TACACS+ > Advanced.
2. Enter advanced TACACS+ settings as required.

   Use source IP Address, q

   If required because of a TACACS+ server only accessed via a VPN tunnel, you can select an alternative source interface here. Select the required interface from the drop-down list and enter the source IP that interface must be configured with. The available interface options are:

   - Auto
   - ppp
   - Ethernet

   Response Timeout, s seconds

   The amount of time, in seconds, before waiting for a response from the TACACS+ server.

   Stop the negotiation if there is no activity for n seconds

   The amount of time, in seconds, before an inactive session is closed.
3. Click Apply.

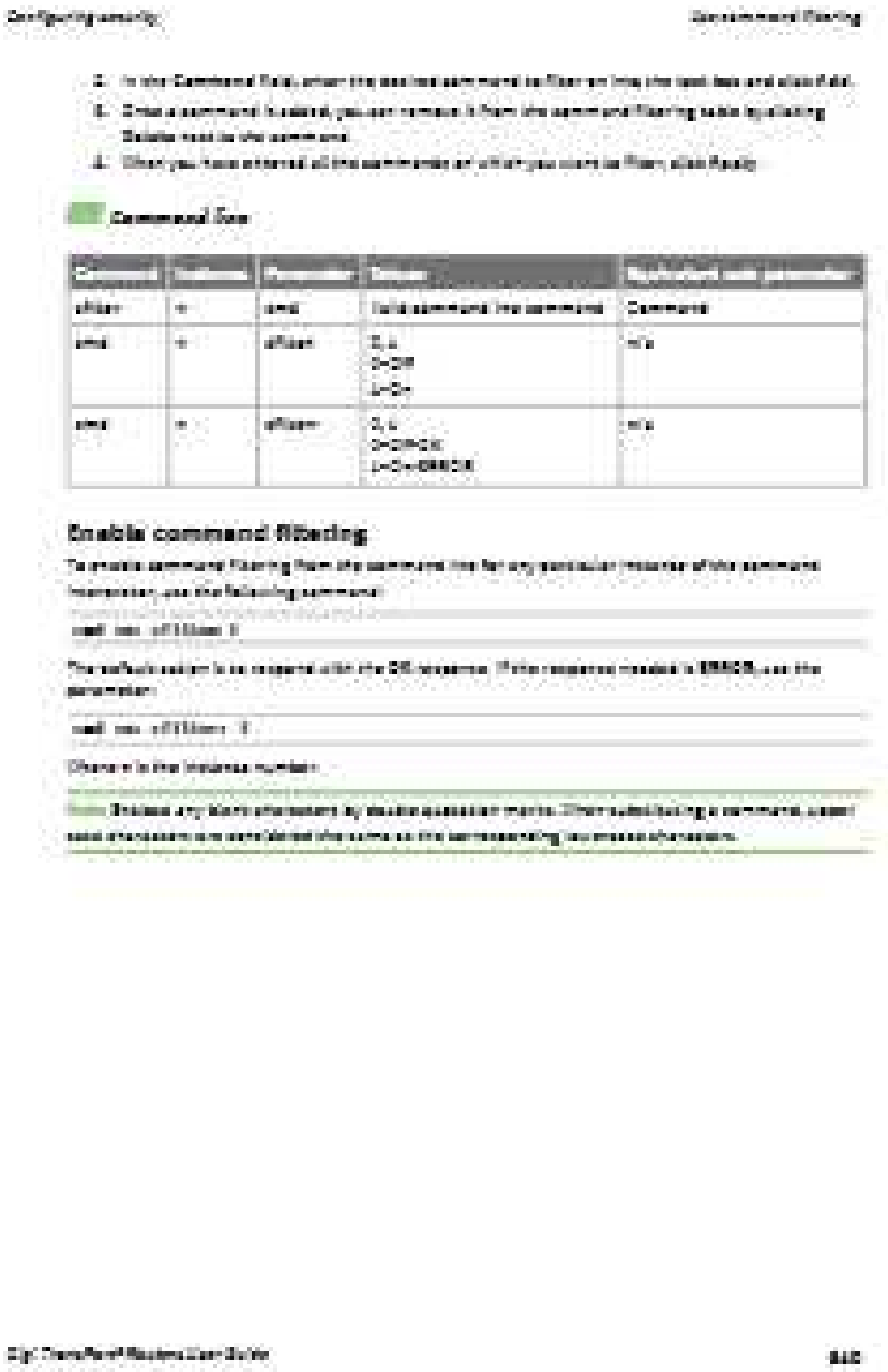
Command line

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Use command filtering



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Set calling numbers to answer or reject



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Configuring telemetry (GPS)

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Configure GPS parameters

Web

1. Go to the Configuration > Telemetry > GPS page.
2. Configure the GPS parameters.

Set Initial Static GPS position

These settings define initial position for a static TransPort router.

Static Latitude

Defines the latitude component of the router's location.

Static Longitude

Defines the longitude component of the router's location.

Enable Local monitoring

Status messages from the GPS receiver are shown on the Management > Position > GPS status page. The messages displayed are configured via one of the following:

GPS Module Initialization String

Some GPS receivers may require configuration via an initialization message to be sent to it when the router boots. This is entered here in the required format, as the required data type. Any such required command string is entered here and will be sent to the attached GPS receiver module when the router initializes and reboots.

The data described here consists of NMEA messages which are sent from the module. The default is to enable all messages.

GPS Message List (Include in IP Messages)

A list of messages received by the GPS, and whether to include each GPS message in IP messages.

Hardware [Edit]

The hardware version (V1, V2 or V3).

Position [Edit]

The Google Maps position (Latitude/Longitude).

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Active Satellites (SAT)

The WR11 uses sampling the number of active satellites for calculating the position.

Satellites in view (SAV)

The WR11 uses sampling the number of satellites in view.

Position and Time (SGC)

The WR11 uses sampling the current position and time.

Course over Ground (VTG)

The WR11 uses sampling the course data.

UTC and local date/time data (ZDA)

Displays the WR11 sentence containing the current local time and date.

All other SPS messages

The above messages are the most common and useful NMEA messages. Every SPS module supports additional messages. Enabling this setting causes the module to output any other supported messages.

IP Connection 2

The module can send SPS data to up to two IP destinations. These are specified in the following two sections of the web page.

Send SPS messages to IP address n.n.n.n

The IP address to which the SPS data should be sent.

Port n

The required TCP/UDP port number to which the SPS data should be sent.

Keep-a-live interval(s)

How often the SPS data is transmitted to the specified host.

- A value of 0 means no automated SPS data each time a GTU and Geo-Satellite data (GSA) message is received from the GPS receiver module.
- A value of 1 or greater means to only transmit messages at this rate.

For this feature to work over a TCP/IP connection, you must enable the ZDA message.

Use TCP / UDP

The protocol to use for sending the messages.

Prefix the message with a

A leading string that should precede the NMEA data. Possible

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[illegible]

[illegible]

[illegible]

get	1	get_ver	0, 1, 2	
get	1	get_ver	0, 1, 2	
get	1	get_ver	0, 1, 2	
get	1		0, 1, 2	
get	1		0, 1, 2	
get	1		0, 1, 2	
get	1		0, 1, 2	
get	1			
get	1			
get	1		0, 1, 2	
get	1			
get	1			
get	1		0, 1, 2	
get	1		0, 1, 2	

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[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible] command

[illegible]

- [illegible]
- [illegible]

```
[illegible]
```

[illegible] command

- [illegible]
- [illegible]
- [illegible]
- [illegible]

```
[illegible]
```

[illegible]

Configure WR31 Cellular GPS

Web

1. Go to the Configuration > Telemetry > Cellular GPS page.
2. Configure the Cellular GPS parameters.

Enable Cellular GPS

By default, cellular GPS is off. To enable cellular GPS:

a. Select the Enable Cellular GPS check box.

b. Click Apply.

Enabling cellular GPS from this page automatically makes the following changes to the Configuration > Telemetry > GPS page:

- Enable basic monitoring is selected.
- The GPS Position Notification String is set to $GPRMC.

For more information about these options, see Configure GPS parameters.

Configure Cellular GPS Antenna Power

By default, the cellular GPS antenna is active, which requires the DC power of 3.3 volts to be applied to the antenna. To use a passive GPS antenna, which does not require DC power:

a. Clear the Enable Cellular GPS Antenna Power check box.

b. Click Apply.

Command Line

wdl_gps command

The following options for the wdl_gps command are used to control the WR31 cellular GPS:

Command	Options	Parameter	Notes	Equivalent web parameter
wdl_gps	1	enable	1=Enable cellular GPS. 0=(default)=Disable cellular GPS.	Enable Cellular GPS
wdl_gps	2	antenna	0=(default)=Enable power for an active GPS antenna. 1=Disable power for a passive GPS antenna.	Enable Cellular GPS Antenna

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Configure GPS support for the GOBI3000 module

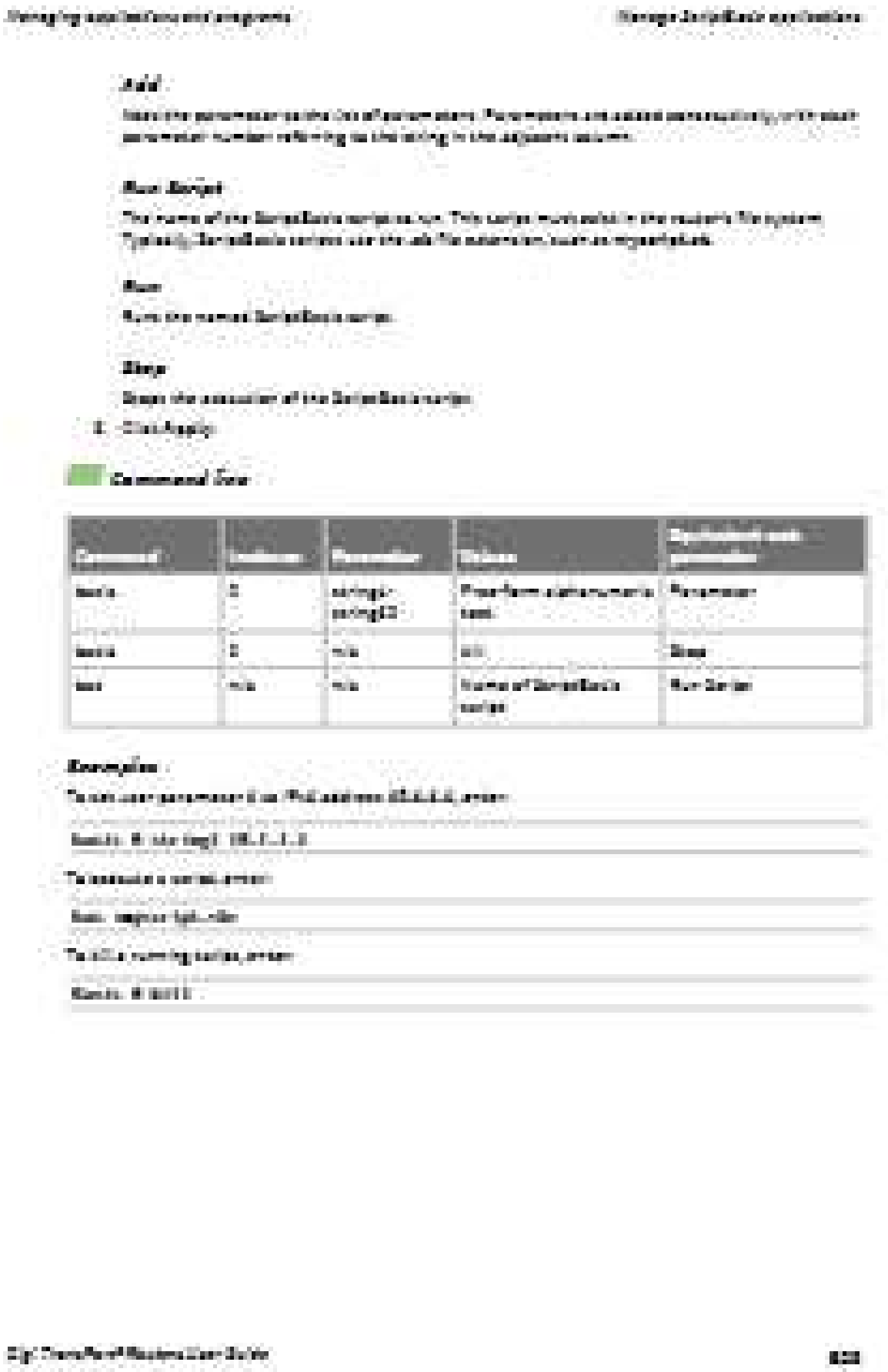


Managing applications and programs

Manage ScriptBasic applications



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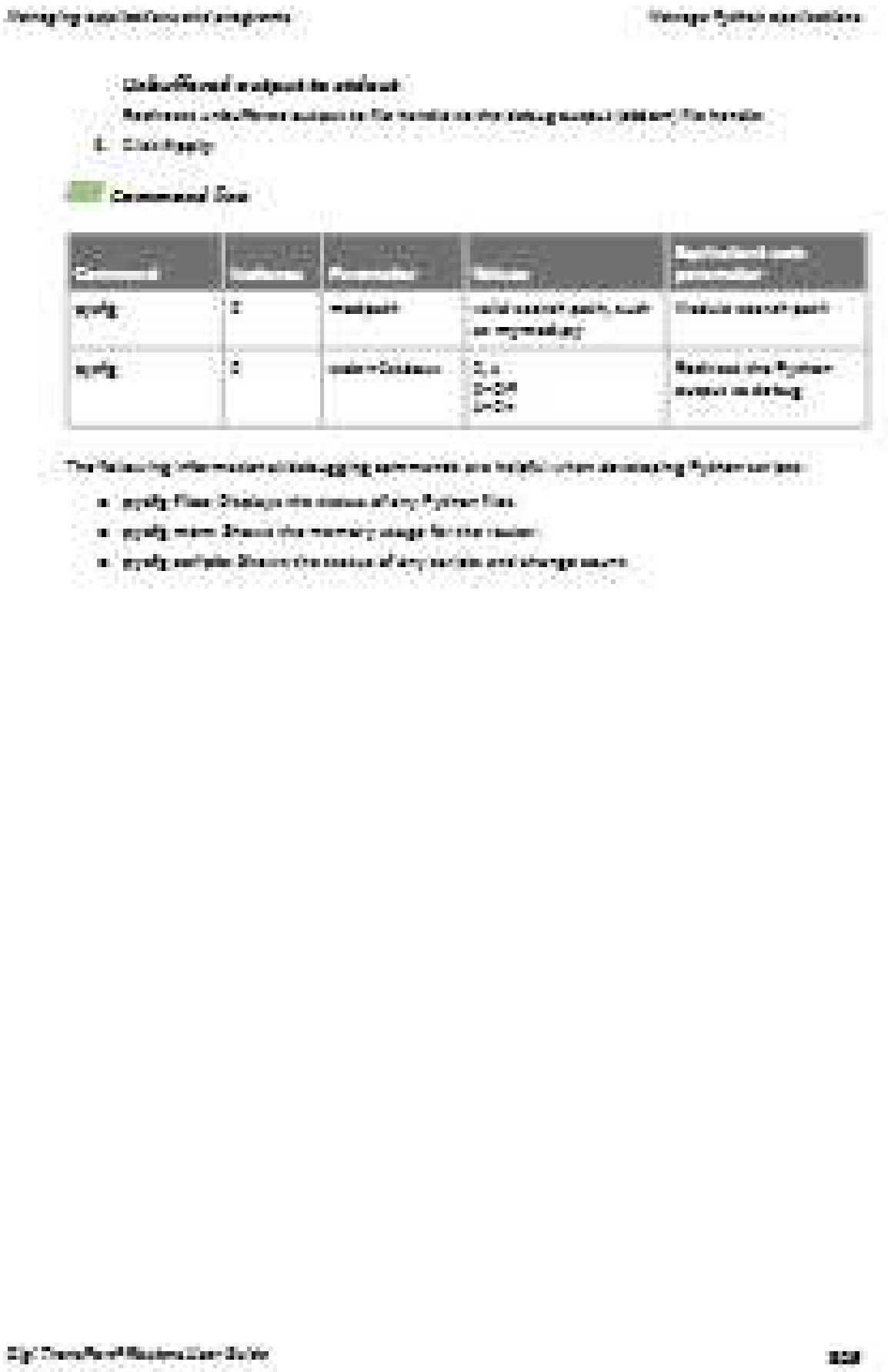
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Manage Python applications





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Managing networks and connections

Show network interface status

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Show Ethernet status and statistics



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[illegible]

[illegible]

[illegible]

[illegible]

Collisions
The number of times the router has detected a packet collision on the Ethernet network when transmitting a packet.

Late Collisions
The number of times the router has detected a late packet collision on the Ethernet network when transmitting a packet.

Flood Protection
The number of times the router has detected an Ethernet packet flood on the network and has enabled the Flood Protection mechanism. Flood protection is designed to stop the router from being overwhelmed by the sudden large increase in packets on the Ethernet network.

Alignment Errors
The number of alignment errors that have been detected when receiving an Ethernet packet.

FCS Errors
The number of Ethernet packets that have been received but had an invalid FCS.

Tx Deferred
The Ethernet packets successfully transmitted after being initially deferred.

Long Frames
The number of Ethernet packets that have been received which are too long.

Carrier Sense Error
The number of carrier sense errors that have occurred. These errors occur when the router attempts to transmit an Ethernet packet but cannot detect the carrier sense condition on the Ethernet network.

Rx MAC Errors
The number of internal errors that have occurred when receiving an Ethernet packet.

Tx MAC Errors
The number of internal errors that have occurred when attempting to transmit an Ethernet packet.

Other Errors
The number of errors that have occurred that are not recognized by the other counters.

Command Line

[illegible]	[illegible]	[illegible]	[illegible]
eth	*	status	Displays the current configuration and status of Ethernet interface n.
ethstat	n	n/a	Displays the statistics for Ethernet interface n.
ethclearstats	n/a	n/a	Clears the statistics for Ethernet interface n.

[illegible] [illegible]

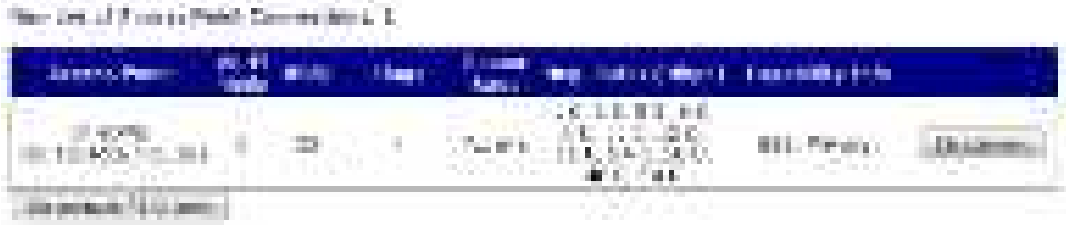
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Show Wi-Fi status and statistics

Wi-Fi Client Connections table

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[illegible]

Plugin

[illegible]

Power Save

[illegible]

Reg. Roles [Slave]

[illegible]

Capability Info

[illegible]

Disconnect

[illegible]

Disconnect All Clients

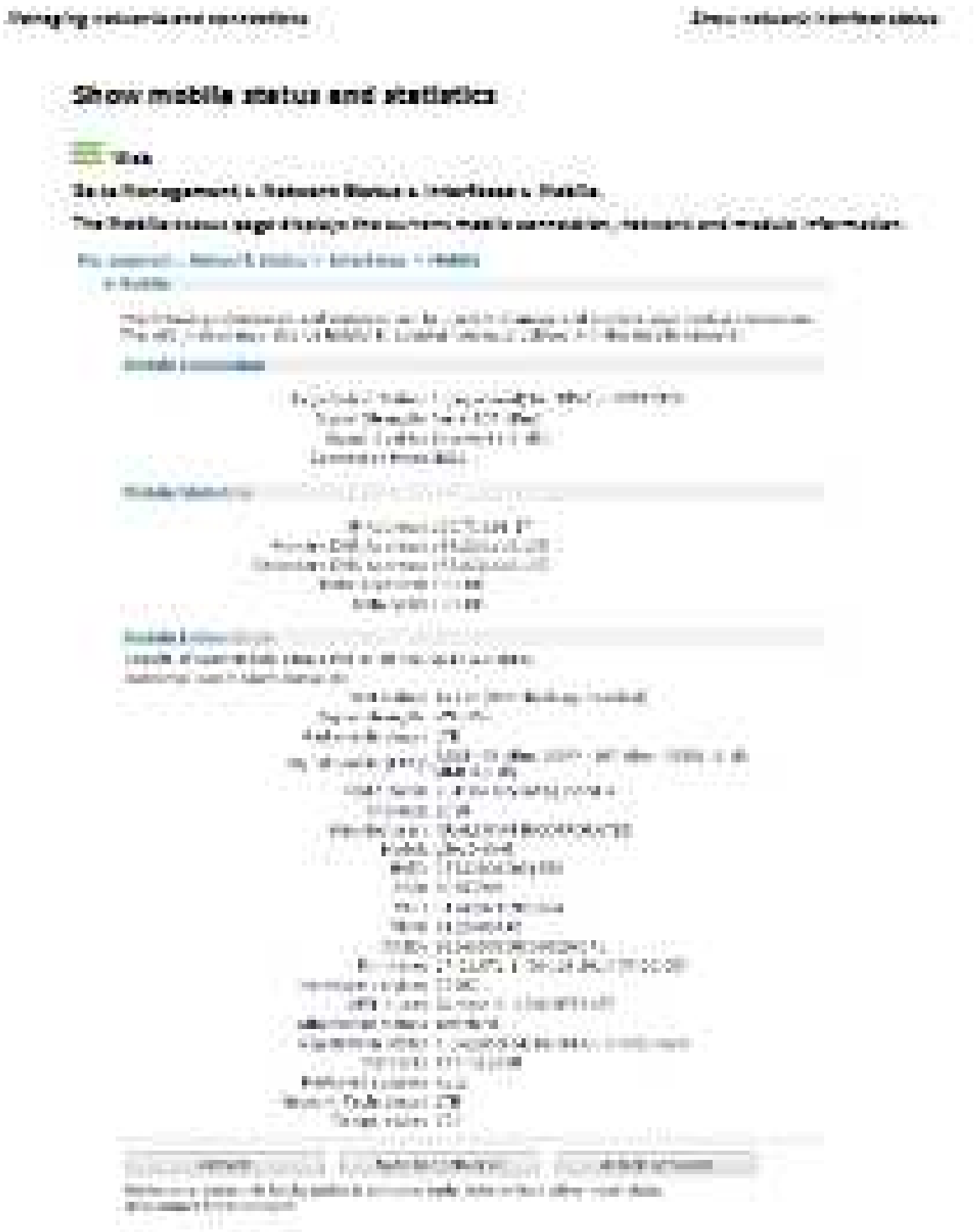
[illegible]

Command Line

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	n/a		[illegible]
[illegible]	a	[illegible]	[illegible]
[illegible]	n/a		[illegible]

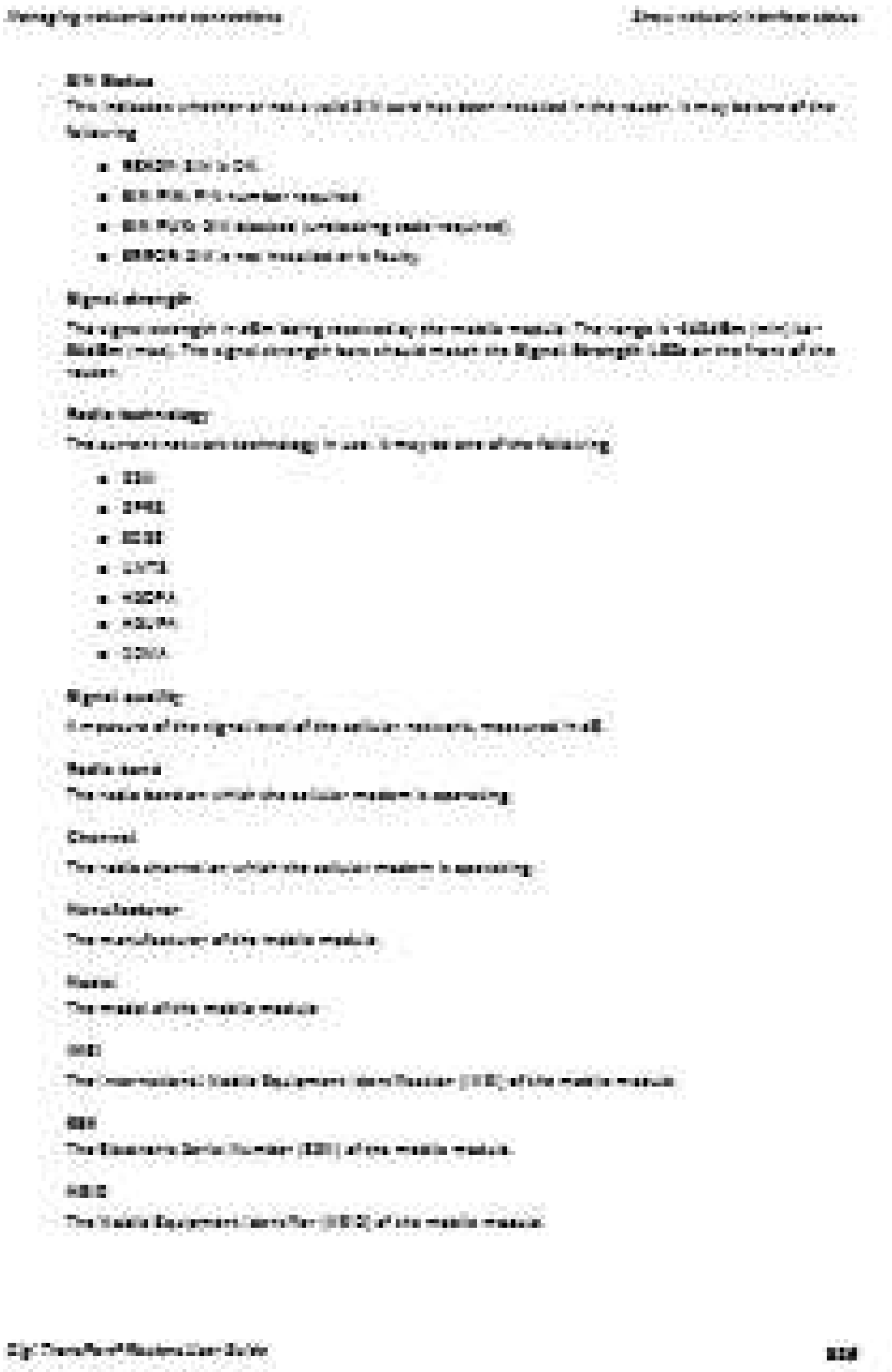
[illegible] 832

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[illegible]

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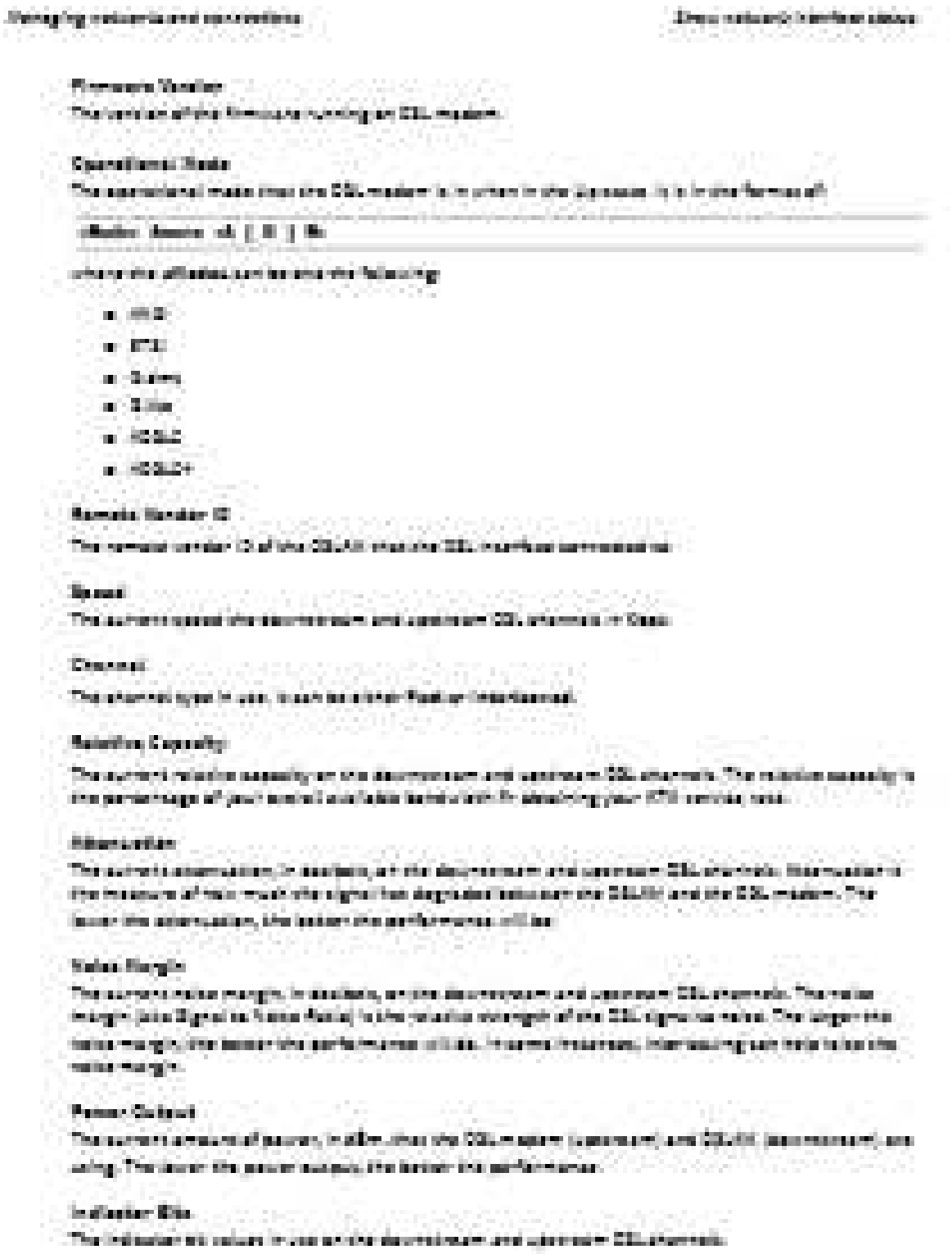
[illegible]

[illegible]

Show DSL status and statistics



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Show GRE interface status



#

Description

Oper. Status

- Up: The GRE interface is up.
- Lower Layer Down: The GRE interface has been administratively disabled, but is not getting any response from the configured destination.

IP Address

Mask

Source

Destination

Bytes Received

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[illegible]

[illegible]

[illegible]

Show ISDN status and statistics

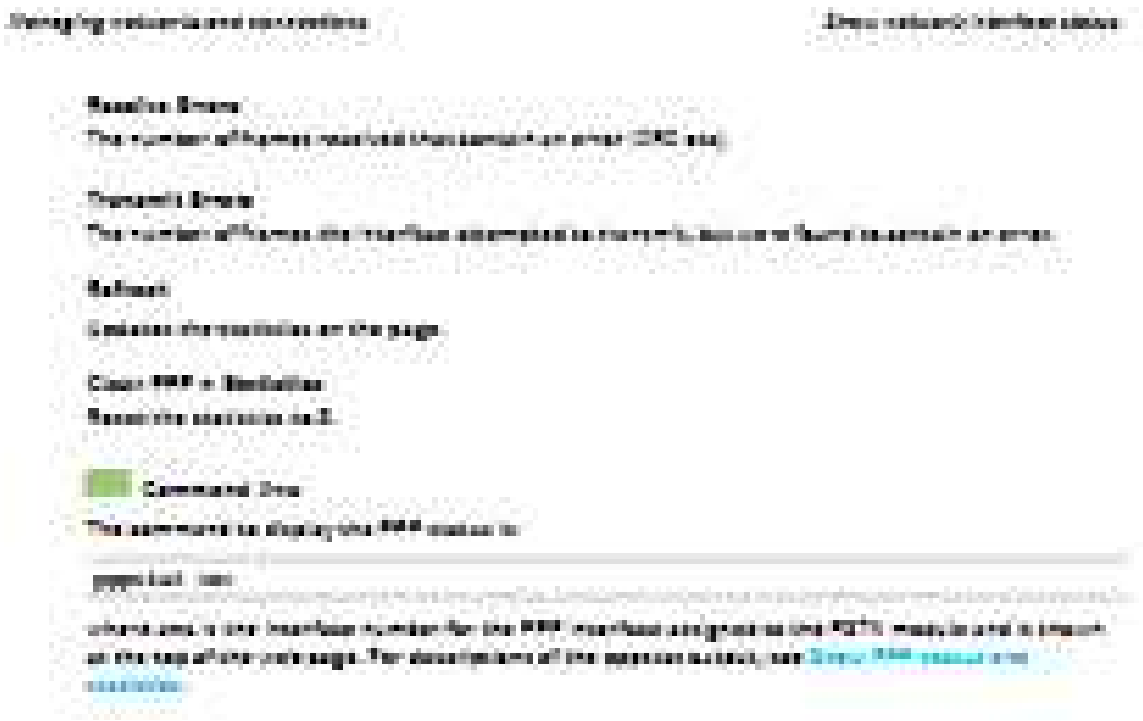
원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

Show PSTN interface status and statistics

[illegible]

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[illegible]



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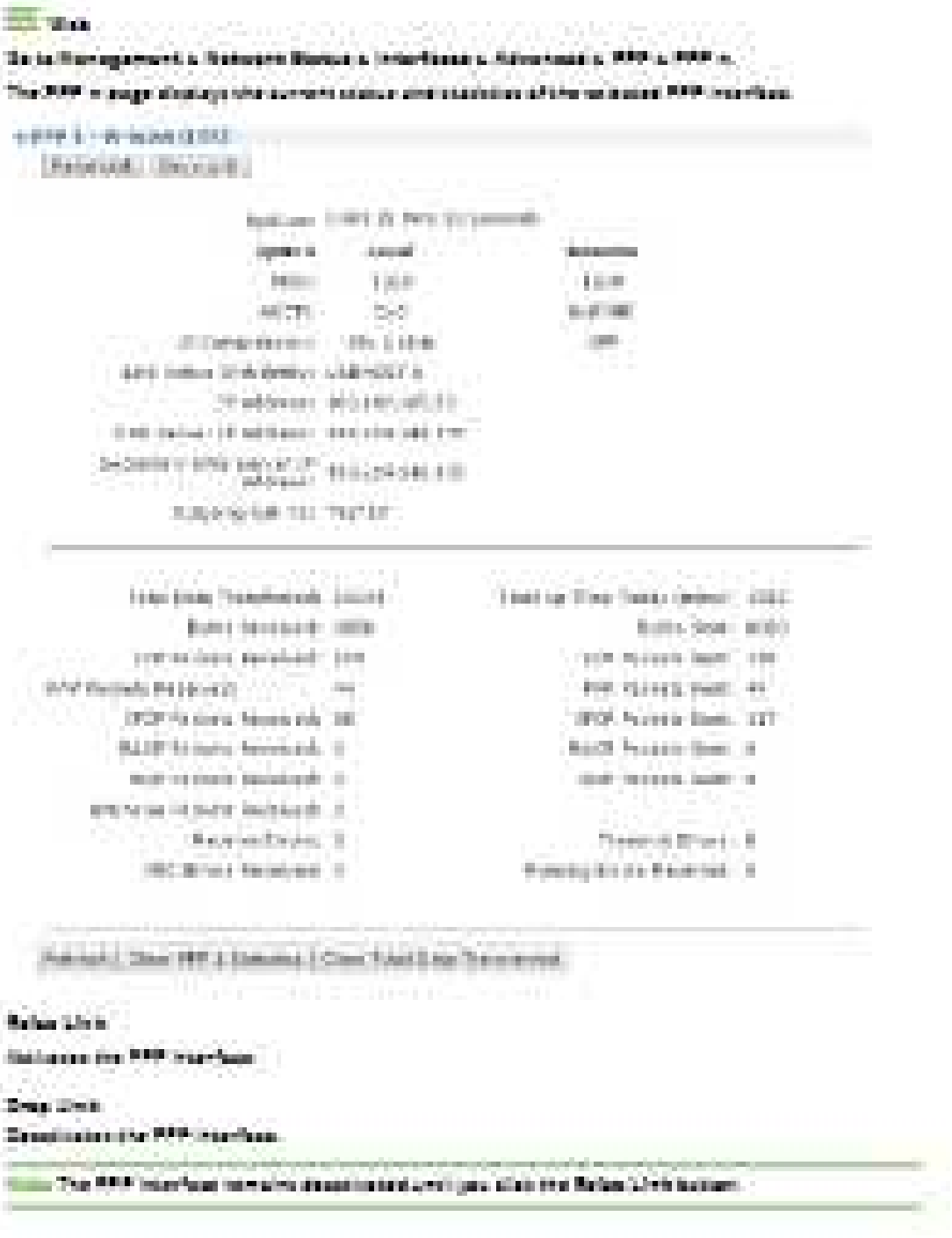


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Show PPP status and statistics



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[illegible]

Name
The name assigned to the PPP interface.

Uptime
The amount of time the PPP interface has been up.

MRU
The maximum receive unit (MRU) that has been negotiated by each peer on the PPP connection.

ACCM
The Asynchronous Control Character Map (ACCM) that has been negotiated by each peer on the PPP connection.

IP Compression
The IP compression (IPC) compression that has been negotiated by each peer on the PPP connection.

Destination Address Entity
The entity this PPP interface is using for connectivity.

IP Address
The IP address assigned to this PPP interface. This could be either statically configured or assigned by the remote PPP peer.

DNS Server IP Address / Secondary DNS Server IP Address
The primary and secondary DNS server IP addresses this PPP interface is using.

Outgoing Call To
If this is a manual PPP interface, this is the number for making the call.

Total Data Transferred
The total amount of data bytes received and sent over the PPP interface, including PPP headers and payload.

Total Up Time Today
The total amount of time, in minutes, the PPP interface has been connected in the current 24 hour period.

Bytes Received
The number of bytes received on the PPP interface.

Bytes Sent
The number of bytes sent on the PPP interface.

LCP Packets Received
The number of Link Control Protocol (LCP) packets received on the PPP interface.

LCP Packets Sent
The number of Link Control Protocol (LCP) packets sent on the PPP interface.

[illegible]

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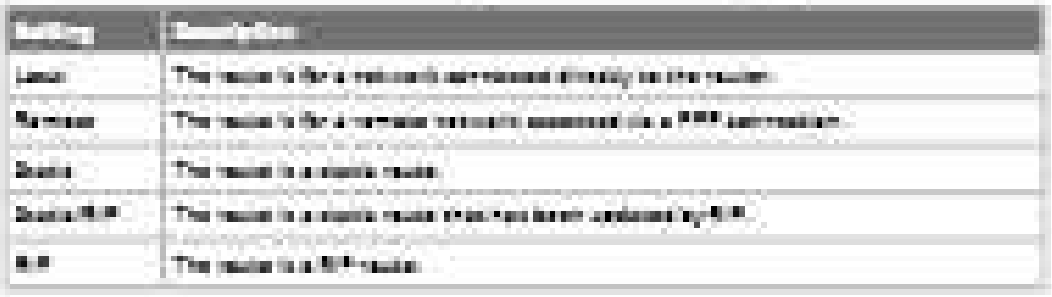
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Show the IP routing table





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[illegible]

[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

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[illegible]

[illegible]

[illegible]

[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

[illegible]

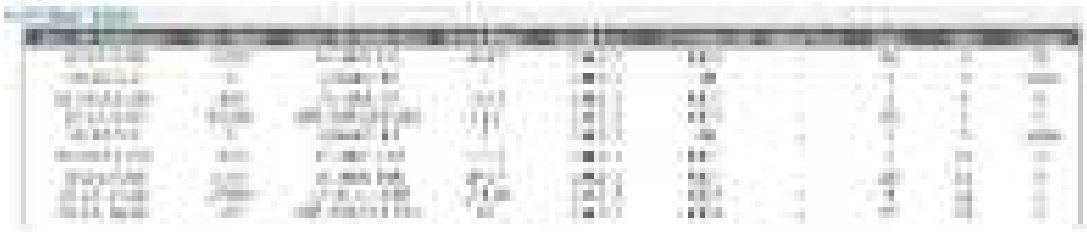
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

[illegible]

[illegible]

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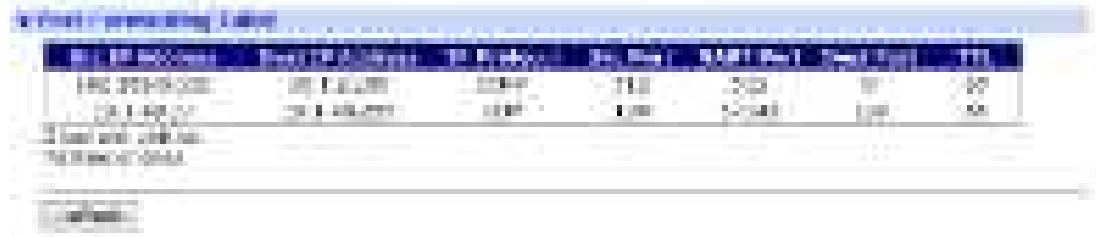
Show the IP hash table



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Show the port forwarding table





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Show firewall statistics

Firewall Stateful Inspection Table

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Show firewall trace output



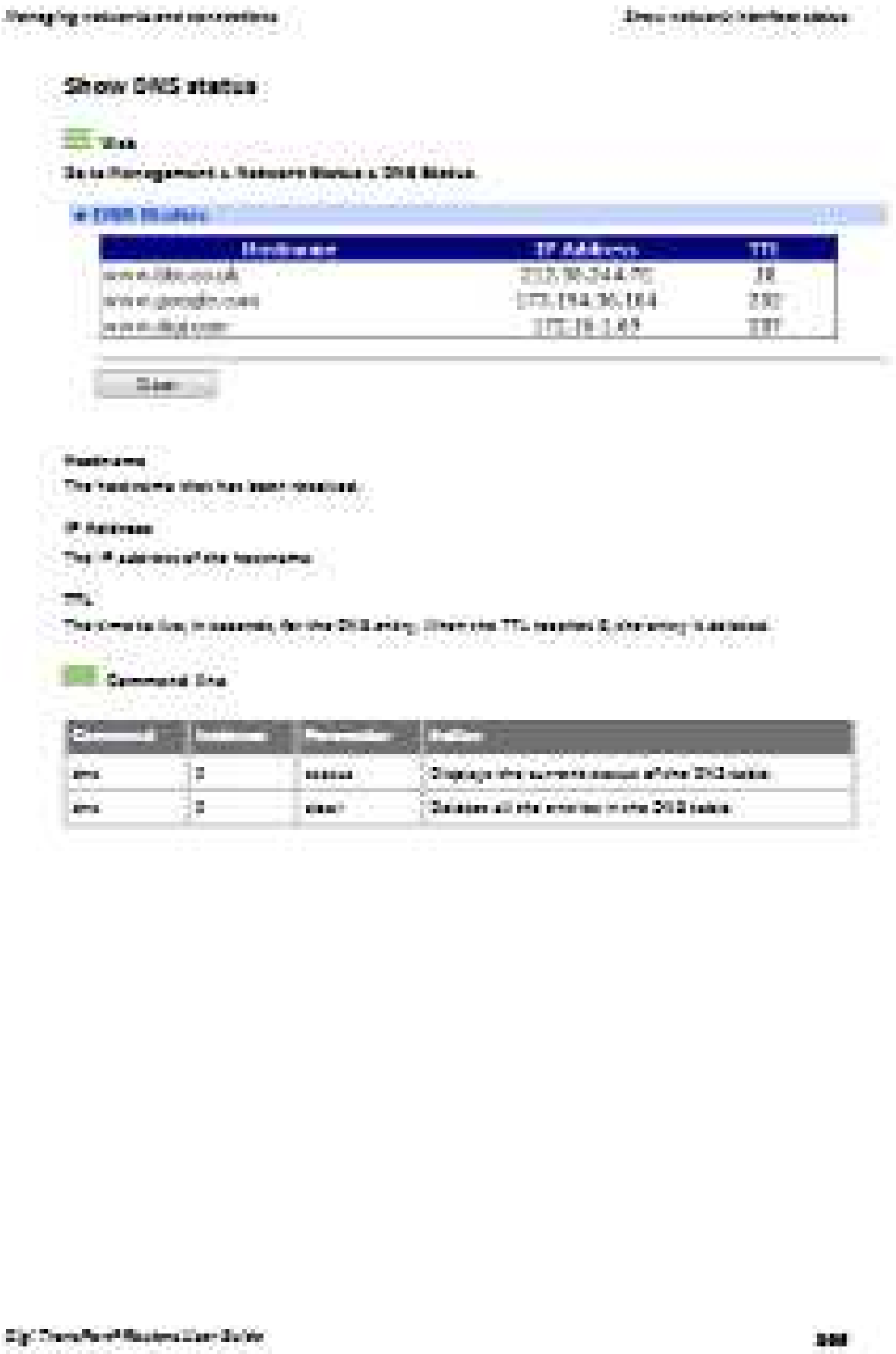
원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

Show DHCP status

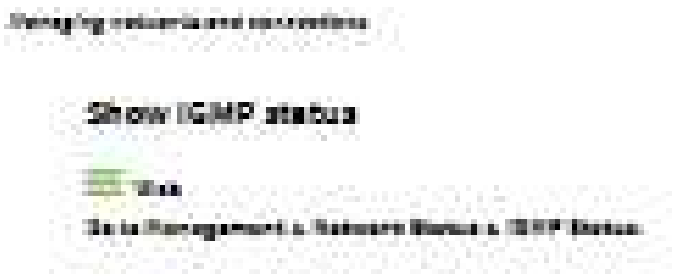


Command	Options	Parameter	Action
show	0	status	Displays the current status of the DHCP table
show	0	clear	Deletes all the entries in the DHCP table

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Show Quality of Service (QoS) status

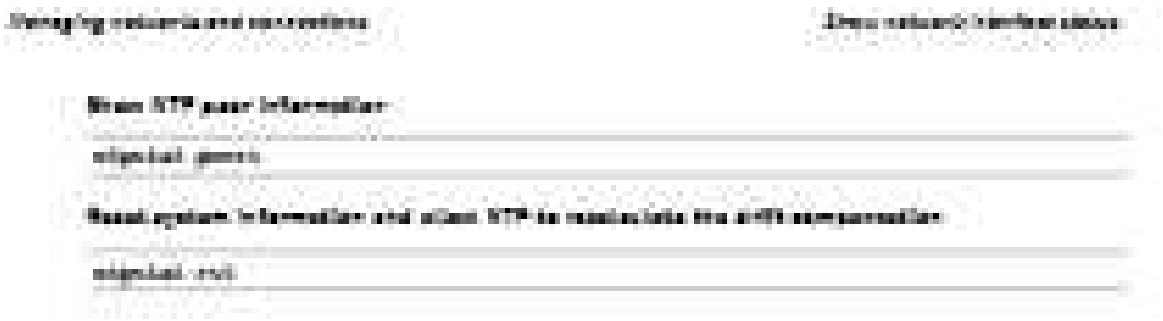
[illegible]

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원문: Digi WR11 XT 사용설명서(영문) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.



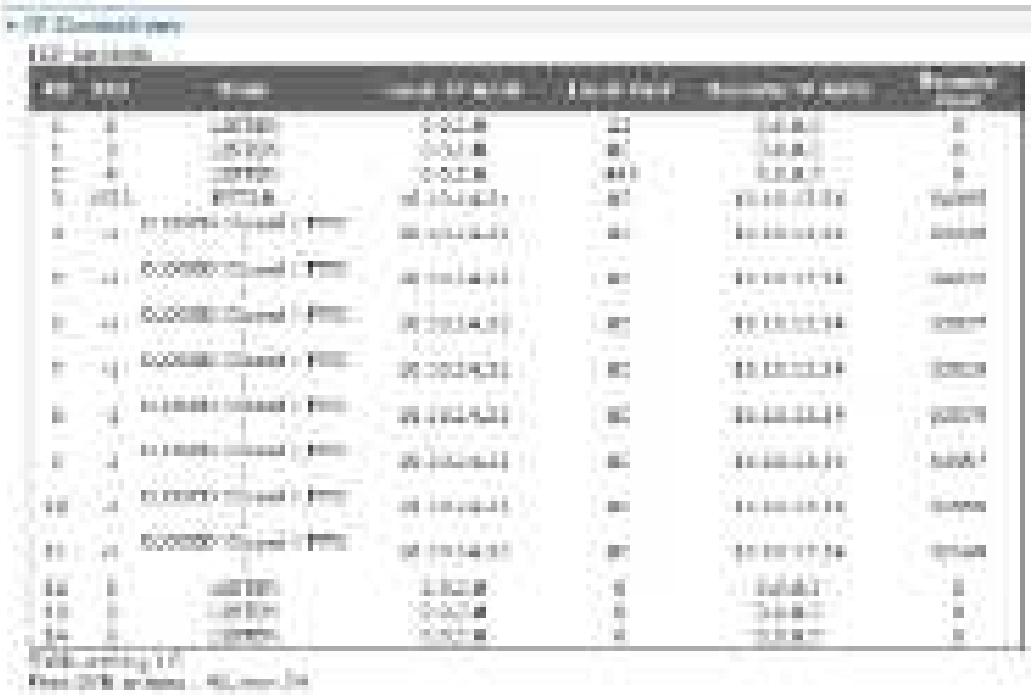
Manage connections

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Show IP connections

TCP Sessions	
General Purpose Sockets	

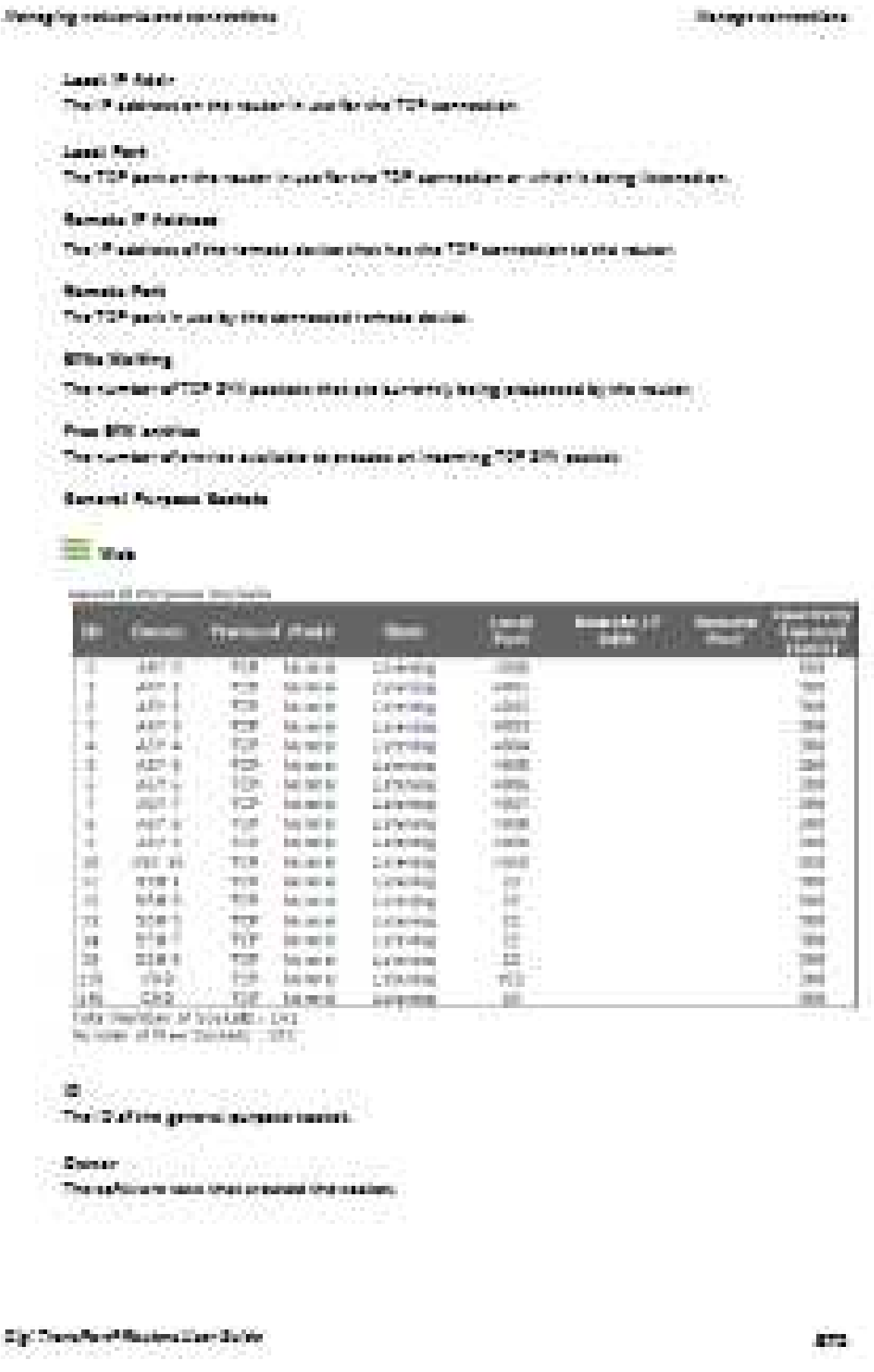
TCP Sessions



ID

Note:

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[illegible]

[illegible]

[illegible]

Manage PPP connections

[illegible]

[illegible]

[illegible]

Show VPN connections

[illegible]

Go to Management > Connections > VPN.

There are several submenus:

- [illegible]
- [illegible]
- [illegible]
- [illegible]

Show IPsec tunnel connections

Go to Management > Connections > VPN > IPsec > IPsec Tunnels.



#

[illegible]

IKE

The Security Parameter Index (SPI) is a number that references the session key and algorithms for processing the data in the IPsec tunnel.

Peer IP

The IP address of the remote device that is the other end of the IPsec tunnel.

Local Network

The local IP network of the IPsec tunnel that is connected to the router.

Remote Network

The remote IP network of the IPsec tunnel that is connected to the remote device.

Pool Name IP / Lease Name IP

For IPsec tunnels that have been configured using XAUTH, this is the range IP addresses available on the remote IP network.





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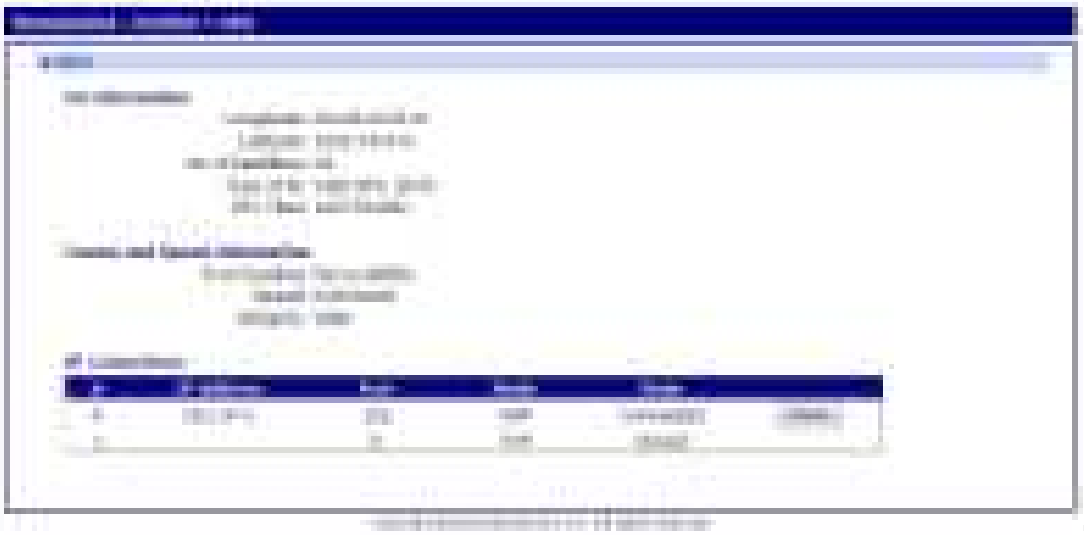


[illegible]

[illegible]

[illegible]

Show GPS data



Longitude

Latitude

No. of Satellites

Type of Fix

UTC

True Heading



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View and manage the event log



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Analyze data traffic

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[illegible] [illegible]

Capture data traffic

[illegible]

1. [illegible]
2. [illegible]

[illegible]

[illegible]

[

[illegible]

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[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

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[illegible]

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[illegible]

[illegible]

Serial Interfaces

[illegible]	[illegible]
Serial 3	4
Serial 4	5
Serial 5	6
Serial 6	7
Serial 7	8
Serial 8	9
Serial 9	A
Serial 10	B
Serial 11	C
Serial 12	D
Serial 13	E
Serial 14	F
Serial 15	10
Serial 16	11
Serial 17	12
Serial 18	13
Serial 19	14
Serial 20	15
Serial 21	16
Serial 22	17

To enable the Analyzer on multiple serial interfaces, add the appropriate values together. For example, to enable the Analyzer on serial interfaces 3 and 5, the value should be 12 (4+8).

The number of serial interfaces available may vary on different assembly options. Not all options are available.

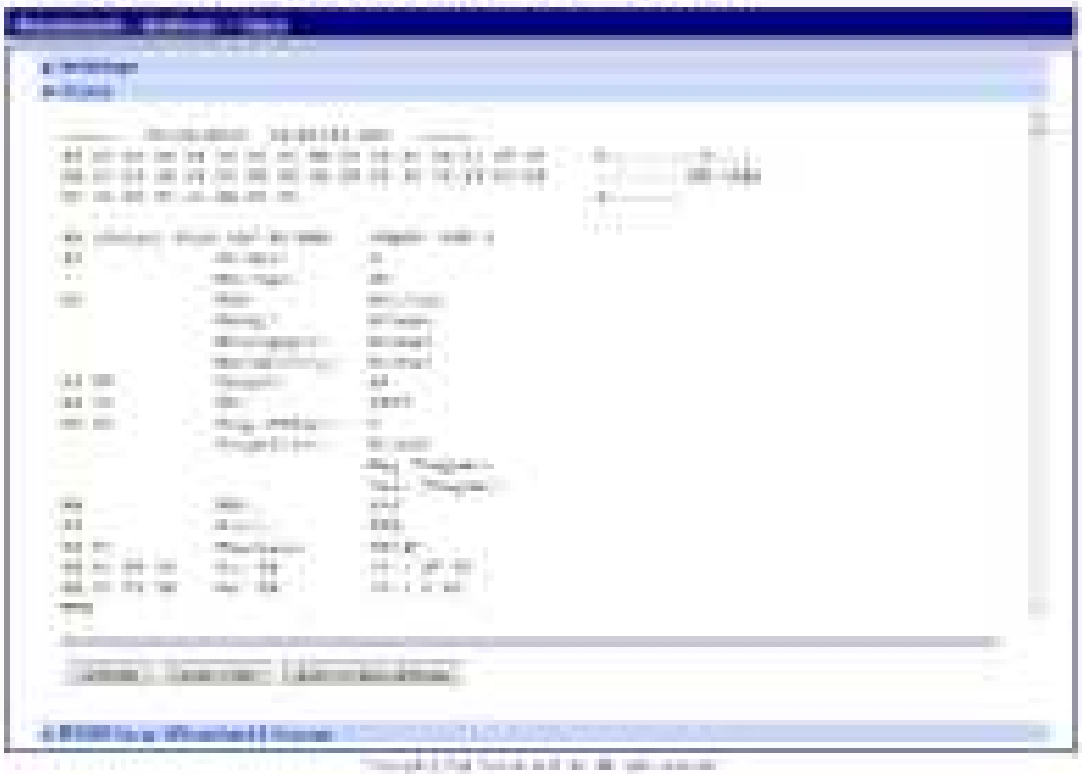
Raw Byte Interfaces

[illegible]	[illegible]
CDC 0	1
CDC 64	2
CDC 65	4
Physical Port 0	8
Physical Port 1	16

To enable the Analyzer on multiple serial interfaces, add the appropriate values together. For example, to enable the Analyzer on Physical Ports 0 and 1, the value should be 24 (8+16).

[illegible] 890

Show captured data traffic



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Set PCAP (such as Wireshark) traces

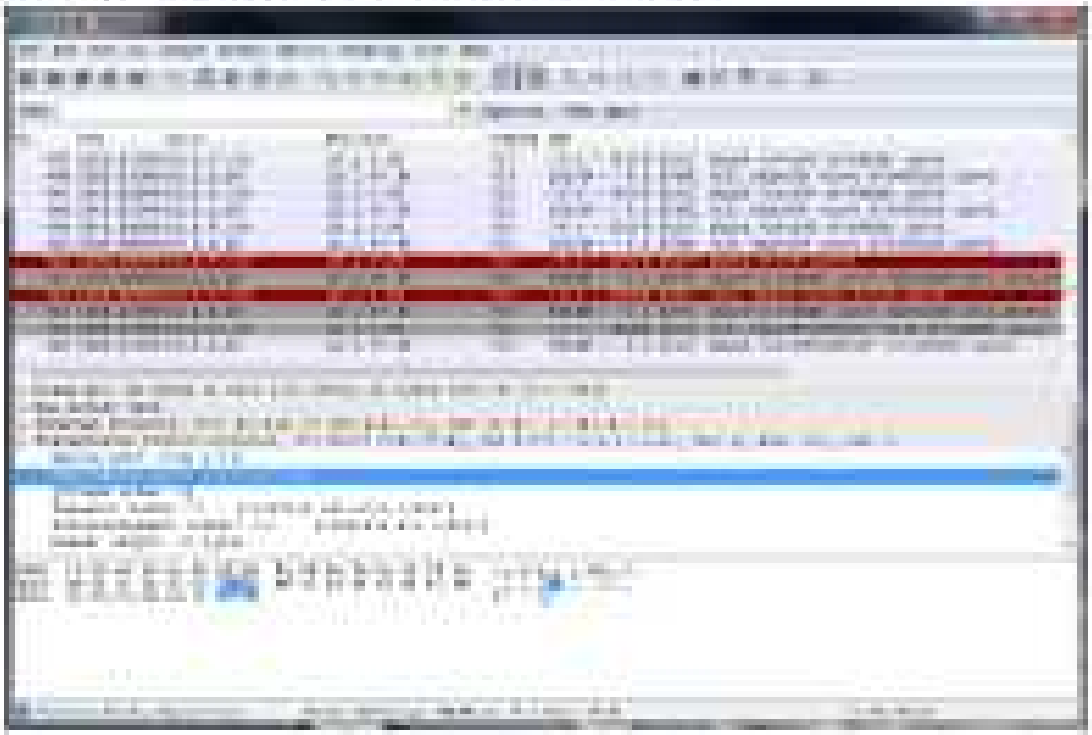
IP	analyzer.pcap	IP traffic captured from all enabled IP sources.
Ethernet	ethernet.pcap	Ethernet traffic captured from all enabled Ethernet sources.
WAN	wan.pcap	WAN traffic captured from all enabled WAN sources.
LAN	lan.pcap	LAN traffic captured from the enabled LAN source.

(Wireshark is free software. To download, go to)

Web

1. Select Management > Analyzer > PCAP (e.g. Wireshark) traces.
2. Click the displayed link to download the desired PCAP-format file.

Following is an example of Analyzer traffic output viewed in Wireshark:



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Use the Top Talkers monitor

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Configure Top Talkers monitor

[illegible]

1. [illegible]
2. [illegible]

   [illegible]

   [illegible]

   [illegible]

   [illegible]
3. [illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Show the Top Talkers trace



Performing device administration tasks

View system information



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[illegible]

[illegible]

Ethernet-0 MAC Address

[illegible]

Firmware Version

[illegible]

BIOS Version

[illegible]

Build Version

[illegible]

RAM Version

[illegible]

CPU Utilization

[illegible]

Up Time

[illegible]

Date and Time

[illegible]

Total Memory

[illegible]

Used Memory

[illegible]

Free Memory

[illegible]

Mobile Module

[illegible]

SSF Cycle

[illegible]

SSF Cycle

[illegible]

Serial Mode

[illegible]

[illegible] 897

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Manage Files

FLASH directory



Action

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[illegible]

File

[illegible]

Size (bytes)

[illegible]

Access

[illegible]

[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

Last Modified

[illegible]

Delete Selected Files button

[illegible]

WEB Directory

[illegible]

[illegible]

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File

The name of the file in the zip file.

Size (Bytes)

The size of the file, in bytes.

Compressed Size (Bytes)

The compressed size of the file, in bytes.

File Editor

Using the file editor, you can edit text files on the router.



Filename

Local File

Save File

Command Line

copy command: Copy a file

copy <filename> <newfilename>

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[illegible]

<filename>

[illegible]

<newfilename>

[illegible]

del command: Delete a file

[illegible]

del <filename>

<filename>

[illegible]

[illegible]

dir command: List the file directory

[illegible]

[illegible]	[illegible]	[illegible]
dir		[illegible]
dir	<filename>	[illegible]
dir	-w	[illegible]

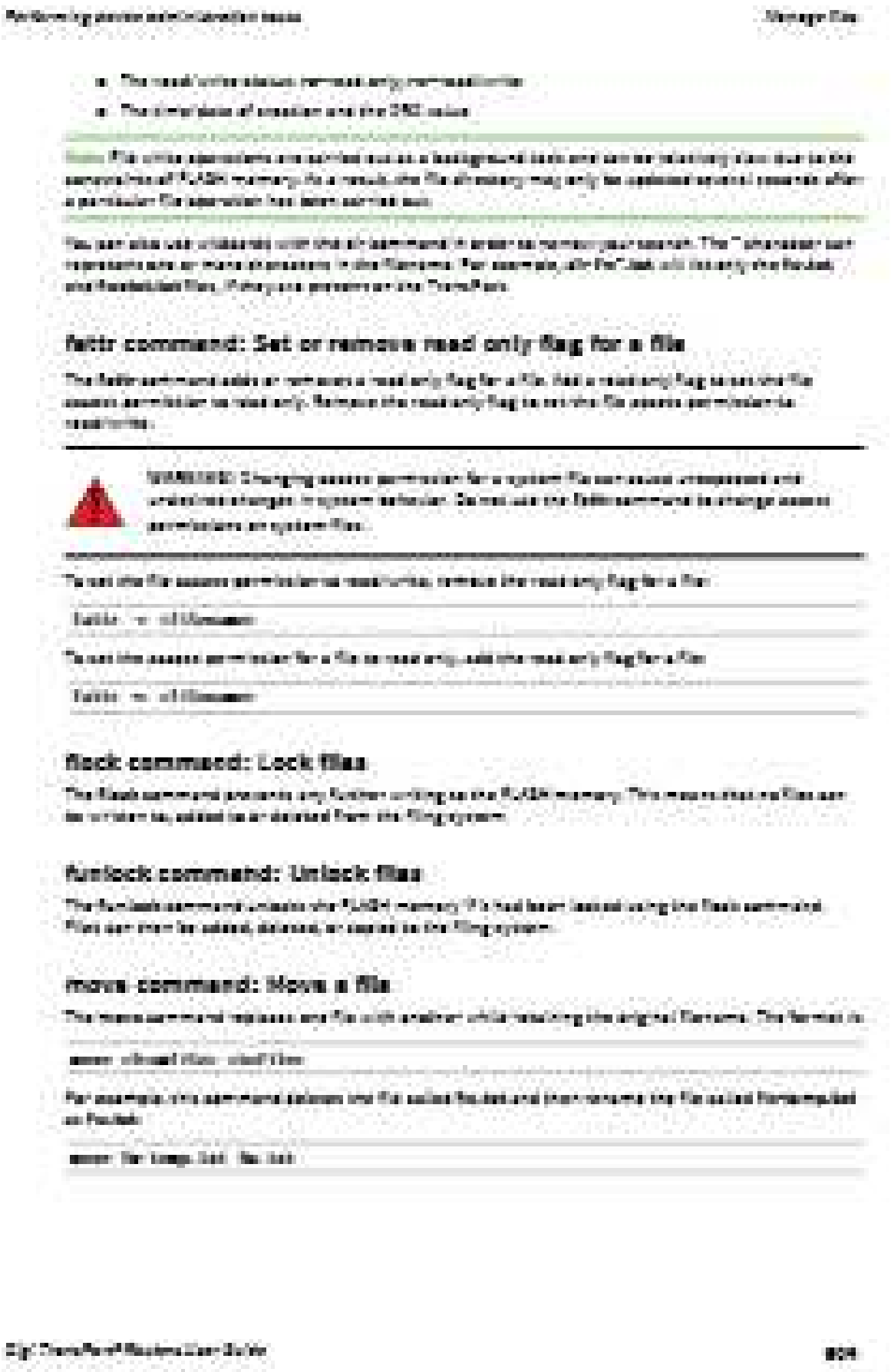
For example:

```
dir
[illegible]
```

[illegible]

- [illegible]
- [illegible]

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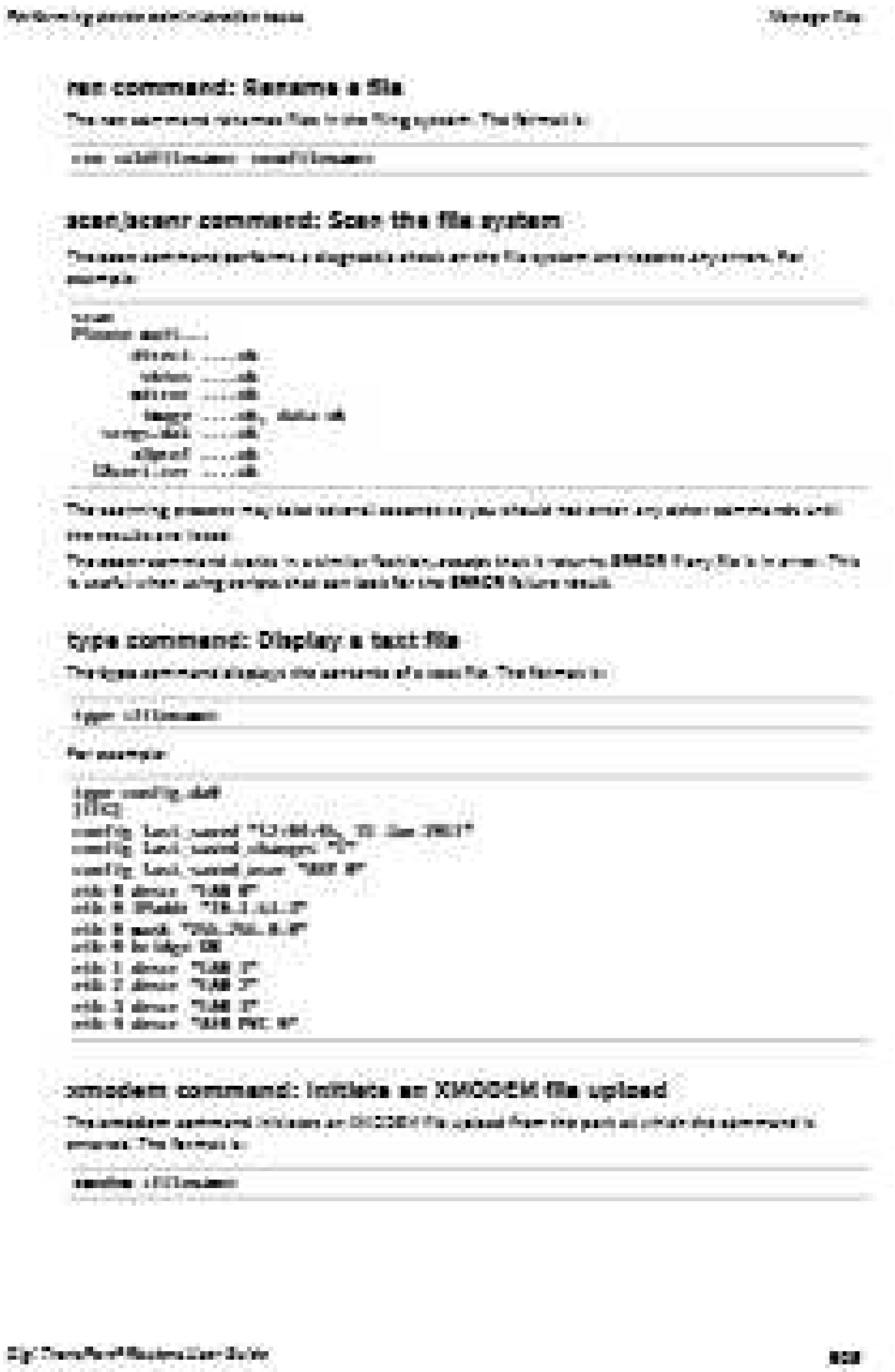
fattr command: Set or remove read only flag for a file

flock command: Lock files

funlock command: Unlock files

move command: Move a file

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TransPort file system

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Manage files using USB storage devices



3D memory card support

Batch control commands

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Create a universal config.dat file using tags

- [redacted]

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Use comments in configuration files



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Manage X.509 certificates and host key pairs

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Manage Certificate Authorities (CAs)

Was

Installed Certificate Authority Certificates

Upload CA Certificates

Obtain CA certificates from a SCEP Server

Port

Path

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Automatically renew/skip expiring certificates

Select to make sure only expiring certificates are renewed.

SCEP Server IP address

The IP address of the SCEP server / CA server.

Port

The port on which the SCEP server is listening. If the port is 0, the router uses the default port of 80.

Path

The path on the server to the SCEP application. You can either enter your own path or select from a list of known SCEP types in the dropdown list.

Application

The SCEP application running on the server.

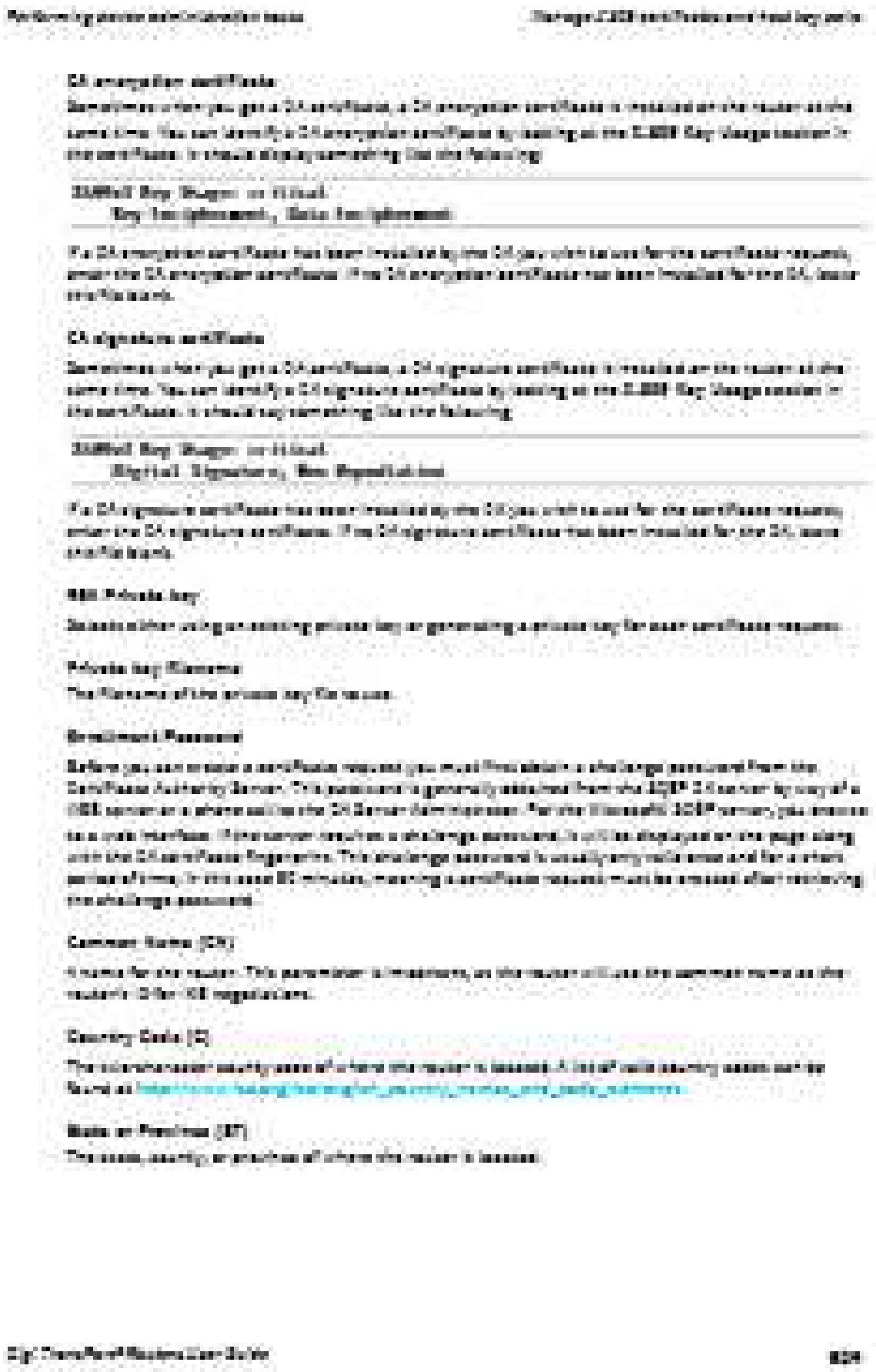
CA Identifier

The identifier for the CA server. The CA identifier value is used to identify a particular CA when multiple CAs might be running on the server.

CA certificate

The filename of the CA certificate.

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[illegible]

[illegible]

[illegible]

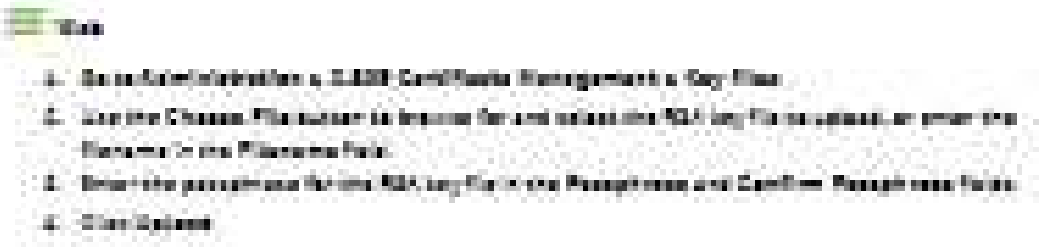
[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

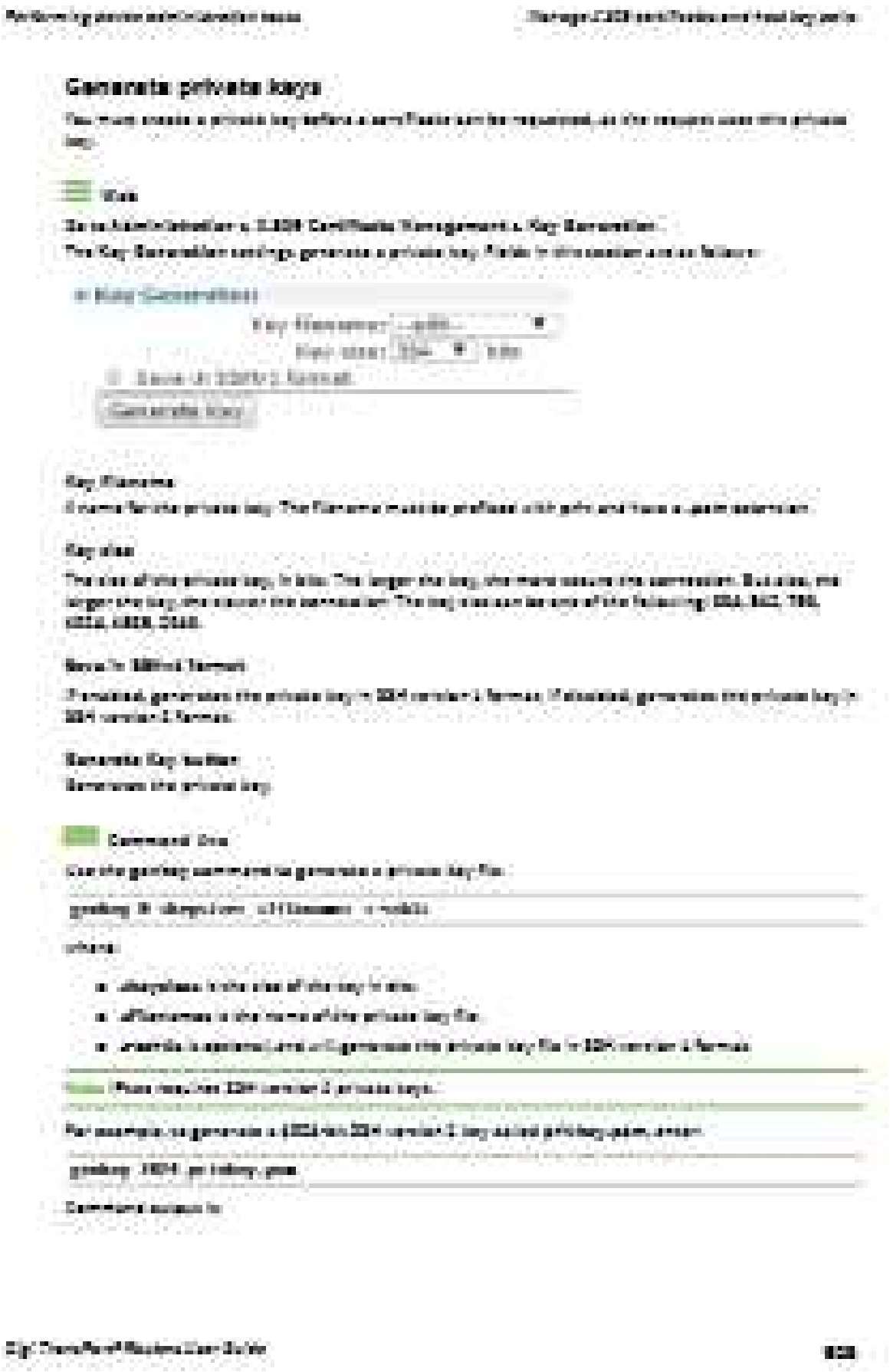
[illegible]

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Manage RSA key files



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[illegible] [illegible]

Back up and restore configuration settings

[illegible]

Configuration files associated with your TransPort router

[illegible]

[illegible]	[illegible]
config.da0	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

[illegible]

Methods for saving configuration files

[illegible]

- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]

Web

[illegible]

[illegible] [illegible]

[illegible] [illegible]

Back up the configuration to a file on your PC or a server

1. [illegible]
2. [illegible]
3. [illegible]

Restore the configuration to a file on your PC or a server

1. [illegible]
2. [illegible]
3. [illegible]

[illegible] [illegible]

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Update firmware

Web

1. Download the .zip file to your PC before starting the firmware update. The Update Firmware web page has a link for this.
2. Go to Administration > Update Firmware.



3. Click Choose File to select or ensure the .zip file on your PC containing the firmware version to which you want to update.
4. Click Update. The firmware update begins.

CAUTION! Do not remove the power from the router while an update is in progress, as it can damage the router's flash file system and might leave the router unable to boot up.

Do not navigate away from the Update Firmware page while an update is in progress.

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[illegible] [illegible]

Reset the router to factory defaults

Using the web interface

Web

1. [illegible]



2. [illegible]
   - [illegible]
   - [illegible]
   - [illegible]
   - [illegible]
   - [illegible]
   - [illegible]
   - [illegible]
   - [illegible]
   - [illegible]
   - [illegible]
   - [illegible]
   - [illegible]
   - [illegible]
3. [illegible]



4. [illegible]

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Using the reset button on the router

- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]

1. [redacted]
2. [redacted]

[redacted]

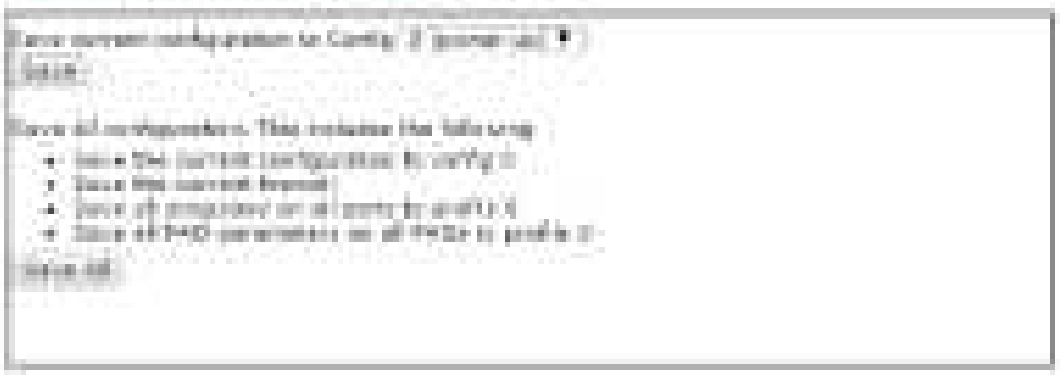
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Save configuration settings to a file

Save the current configuration

Save All: Save the entire configuration

- Web



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[illegible]

1. [illegible]
2. [illegible]

[illegible]

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

[illegible]

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Execute a command from the web interface

Web



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Reboot the router



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Troubleshooting

[illegible]

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Troubleshooting resources

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Download the debug.txt file

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[illegible] [illegible]

Cannot open the web interface

[illegible]

1. [illegible]
2. [illegible]
3. [illegible]
   a. [illegible]
   b. [illegible]
   c. [illegible]
   d. [illegible]
   e. [illegible]

[illegible] [illegible]

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Cannot log into the web interface

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Troubleshoot the LTE-MIMO antenna orientation

Network start verbose call end reasons

0	Normal	See
1	Unknown	See
2	Call Manager	See
3	3rd Generation Partnership Project (3GPP) specification	See
4	Point-to-Point Protocol (PPP)	See

Reason number	Reason
Call end reason type 0	
80	The foreign agent rejected Mobile IP (MIP) registration for an unspecified reason.
81	The foreign agent administratively prohibited Mobile IP (MIP) registration.
82	The foreign agent rejected Mobile IP (MIP) registration because of insufficient resources.
83	The foreign agent rejected Mobile IP (MIP) registration because the mobile node authentication (MN-AAA) authentication was wrong.
84	The foreign agent rejected Mobile IP (MIP) registration because of home agent authentication failure.
85	The foreign agent rejected Mobile IP (MIP) registration because the requested lifetime was too long.
86	The foreign agent rejected Mobile IP (MIP) registration because of a malformed request.
87	The foreign agent rejected Mobile IP (MIP) registration because of a malformed reply.

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[illegible]	[illegible]
72	The foreign agent rejected Mobile IP [illegible] registration because the requested encapsulation was unavailable.
73	The foreign agent rejected Mobile IP [illegible] registration because [illegible] was unavailable.
74	The foreign agent rejected Mobile IP [illegible] registration because reverse tunnel was unavailable.
78	The foreign agent rejected Mobile IP [illegible] registration because reverse tunnel is mandatory, but the T bit is not set.
79	The foreign agent rejected Mobile IP [illegible] registration because the delivery style is not supported.
81	The foreign agent rejected Mobile IP [illegible] registration because the Mobile Node's identifier [illegible] was missing.
82	The foreign agent rejected Mobile IP [illegible] registration because the home agent was missing.
88	The foreign agent rejected Mobile IP [illegible] registration because the home address is missing.
103	The foreign agent rejected Mobile IP [illegible] registration because of an unknown challenge.
104	The foreign agent rejected Mobile IP [illegible] registration because of a missing challenge.
105	The foreign agent rejected Mobile IP [illegible] registration because of a stale challenge.
120	The home agent rejected Mobile IP [illegible] registration for an unspecified reason.
128	The home agent administratively prohibited Mobile IP [illegible] registration.
129	The home agent rejected Mobile IP [illegible] registration because of insufficient resources.
131	The home agent rejected Mobile IP [illegible] registration because of a mobile node [illegible] authentication failure.
132	The home agent rejected Mobile IP [illegible] registration because of a foreign agent authentication failure.
133	The home agent rejected Mobile IP [illegible] registration because of a registration identification.
134	The home agent rejected Mobile IP [illegible] registration because of a malformed request.
136	The home agent rejected Mobile IP [illegible] registration because of an unknown home agent address.
137	The home agent rejected Mobile IP [illegible] registration because reverse tunnel was unavailable.
138	The home agent rejected Mobile IP [illegible] registration because reverse tunnel was mandatory, but the T bit was not set.

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[illegible]	[illegible]
L09	[illegible]
[illegible]	[illegible]
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[illegible]	[illegible]
[illegible]	[illegible]
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101	Target Radio Access Technology (RAT) is not valid.
[illegible]	
102	The device is in a Class/Subscriber Quality Service (CSQS) restriction.
103	An unrecognized value was received from the base station.
104	A location was received from the base station.
105	Received a request from the base station with a Service Option (SO) that is not...
106	Received an incoming call from the base station.
107	Received an alert call from the base station.
108	There was an authentication error.
109	The maximum number of access probes were transmitted.
110	Concurrent service is not supported by the base station.
111	No response was received from the base station.
112	The base station rejected the call.
113	The concurrent services requested were not compatible.
114	Already in the traffic channel.
115	Device does not have CDMA service.
116	No cdma channel.
117	Unknown error.
118	User Identity Module (UIM) is not present.
119	Received a retry order from the base station.
120	Access was blocked by the base station.
121	Access is blocked by the base station for all mobile devices.
122	The maximum number of access probes retried for the [illegible] call.
123	Put the device in a thermal emergency.
1000	Configuration failed.
1001	No gateway service.
1002	No General Packet Radio Services (GPRS) service.
1003	Services refused service by the mobile station because either an identity of the mobile station is not acceptable to the network or the mobile station does not pass the authentication check.

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[illegible]	[illegible]
[illegible]	[illegible]
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0F	[illegible]
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FF	[illegible]

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