iridium

OpenPort Terminal

User's Manual Supplement

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Contents

User Manual Supplement

Thank you for purchasing the state of the art Iridium OpenPort Terminal. Iridium is the only provider of truly global satellite voice and data communications solutions with complete coverage of the entire earth including oceans, airways and even polar regions. The Iridium OpenPort Terminal delivers reliable, secure, real-time, simultaneous high quality voice and up to 128kbit/s data connection to the Iridium satellite network from any point on the globe.

The information presented in this document is a supplement to the Iridium OpenPort Terminal User Manual. The information provided describes changed nomenclature, Port Forwarding an enhanced feature offered in the latest software release and the specifications of the system. All other information, such as safety, overall use and certifications can be found in the OpenPort Terminal User Manual.

The intent of this supplement is to provide information not yet incorporated into the OpenPort Terminal User Manual. It is temporary in nature and will be obsolete once incorporated into the OpenPort Terminal User Manual.

Note   The nomenclature referring to telephone handsets has changed from "Captains", "Normal" and "Crew" to "Standard" and "Crew". Please replace the words "Captain" and "Normal" with "Standard" throughout the manual. A "Standard" line can be provisioned to have any or all of the features previously offered on the "Captains" or "Normal" lines so all the functionality remains unchanged. This change will also be reflected in the "Status" page displays.

Port Forwarding

Port forwarding is taking a port on the outside of the OpenPort, such as port 80 (typically used for web servers) and passing it to another machine on the internal network, on the same port (80).

Port redirection is taking a port on the outside, i.e. 80, and passing it to another machine on the internal network, but on a different port, i.e. 8080.

Before beginning the user will need to know what port they wish to forward from outside the Iridium OpenPort, to the inner network, and whether or not they need to 'redirect' the port as well.

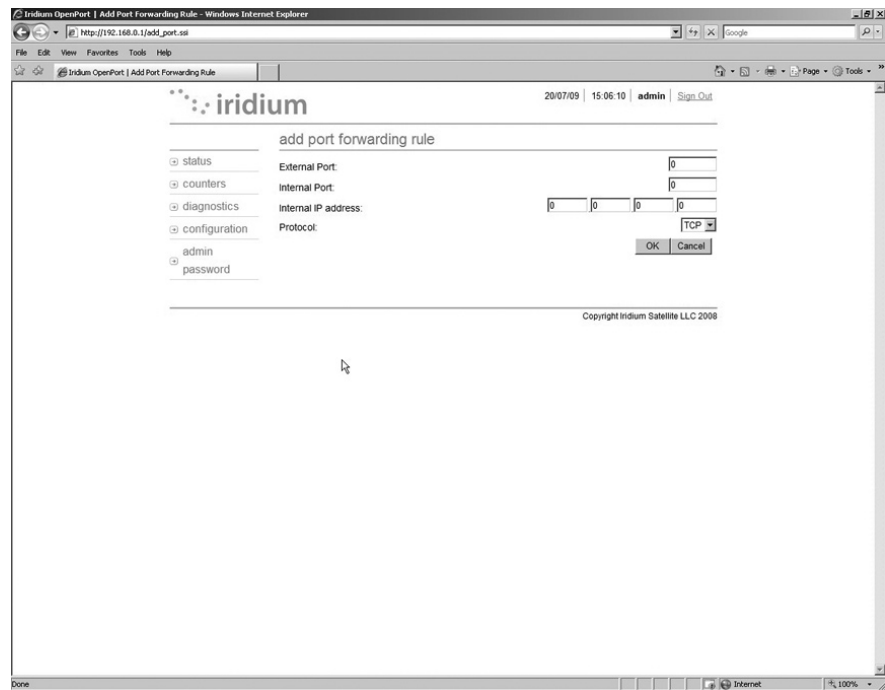They will also need to know if the data will be TCP or UDP.

1. Click 'Add Rule'. An administration page will open (Fig. 2)

Figure 1
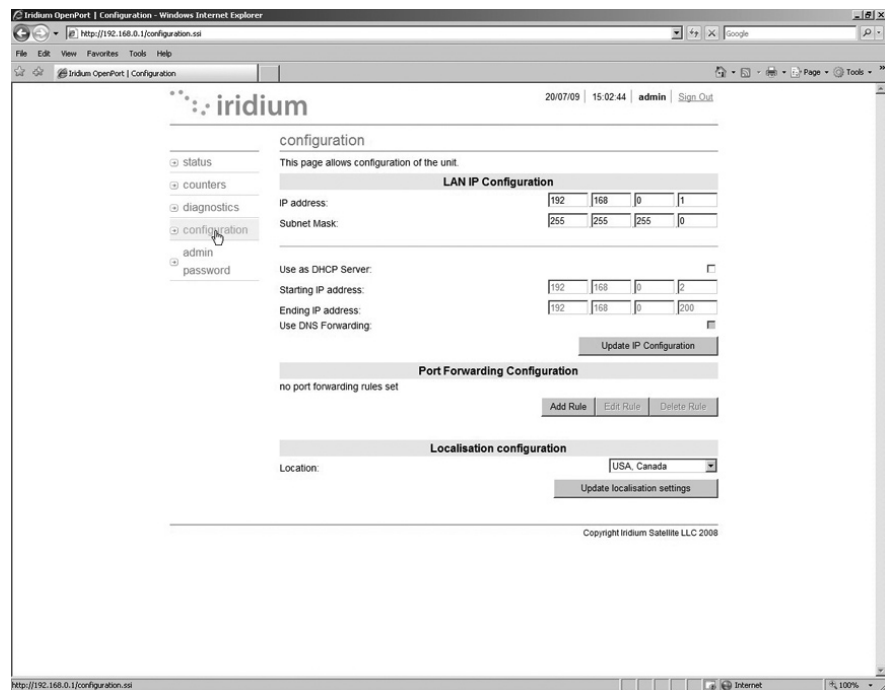
Microsoft product screenshot(s) reprinted with permission from Microsoft Corporation.
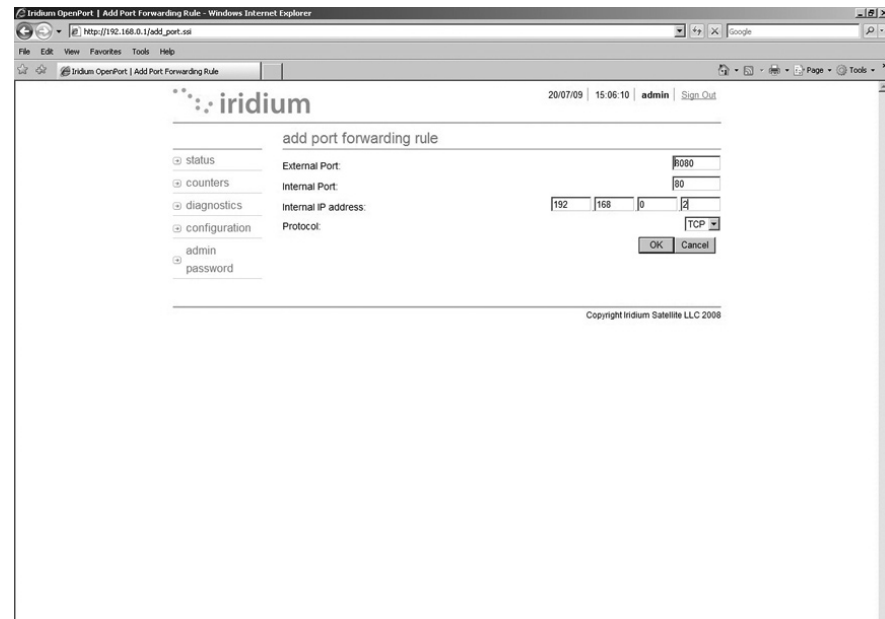
Figure 2

2. Enter / Select the following:

- The external port number to forward to the inside.
- The internal port number which will be receiving the data.
  Note: If you are redirecting as well, this number will be different than the external port number.
- The IP address of the computer which is receiving the data. Note: This will need to be on the same subnet as the OpenPort ISU.
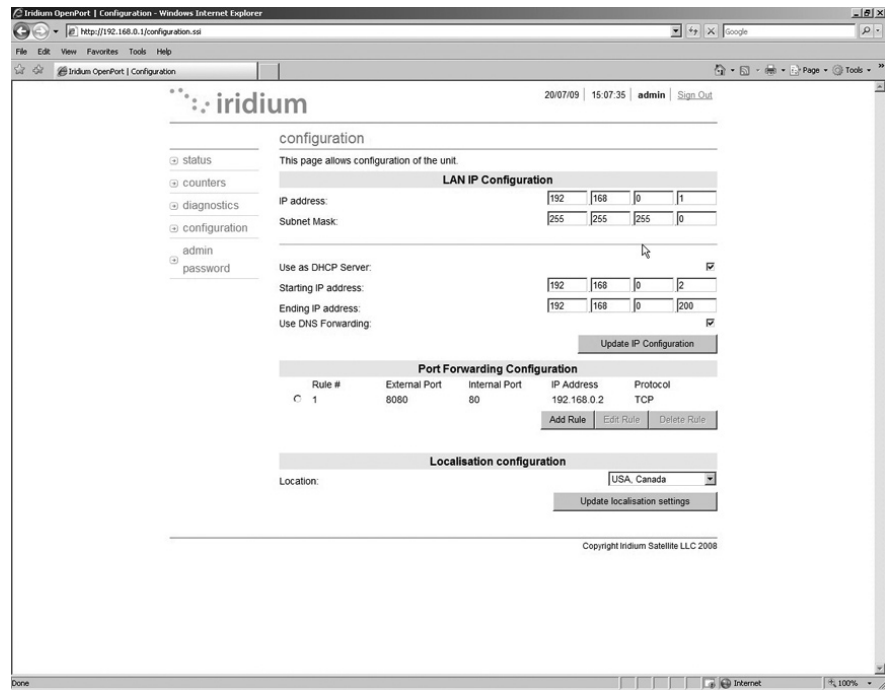- The protocol for the data: TCP or UDP.

Figure 3

Microsoft product screenshot(s) reprinted with permission from Microsoft Corporation.

3. Click OK. The updated configuration page with the newly added rule is displayed.
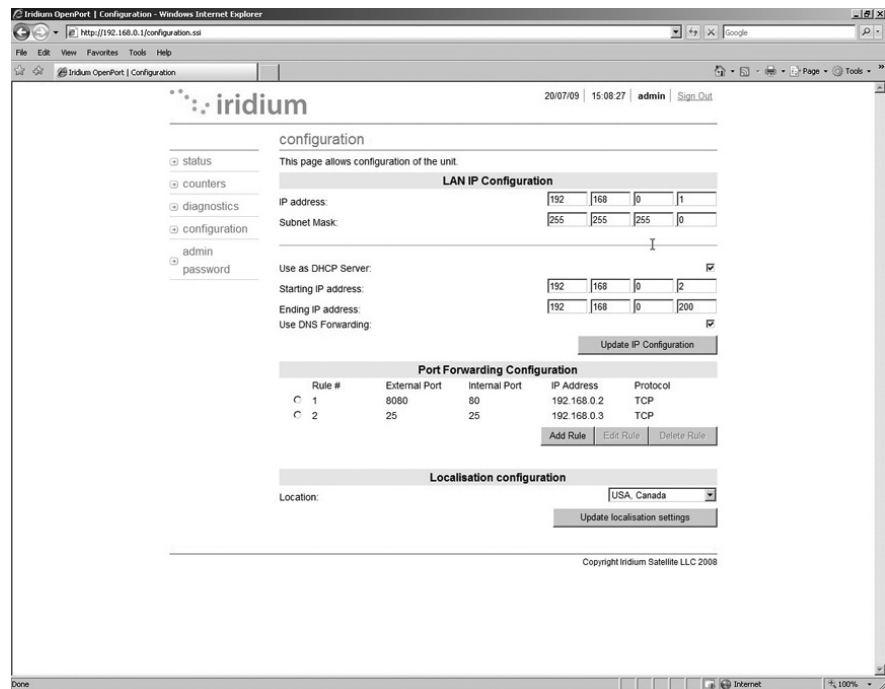
Figure 4

4. Add additional rules as needed.

Note: Rules can be turned on/off without having to be deleted.

Figure 5

Microsoft product screenshot(s) reprinted with permission from Microsoft Corporation.

RF Performance		
Frequency of operation	TX	1616 to 1626.5 MHz
	RX	1616 to 1626.5 MHz
Channelization	FDMA spacing	41.67 KHz
	TDMA timing	8.3 mS slot in a 90 mS window
	Channels available	64 channels
EIRP	1 ch (voice)	1.1 watts average power
	64 ch (max data rate)	6 watts average power
Modulation	Voice/Data	QPSK
Antenna	Type	6 dual element azimuthal array and 1 zenith element, electronically switched and phase steered
	Polorization	RHCP
	Gain	+8 dB
	Beam width	hemispheric coverage (60° per element)
	Steering	automatic solid state
	Coverage	horizon to horizon
	Ship's Motion	provides useful link margin up to roll = 20°
Power Requirements		
Main Power (AC)	Voltage	100-240 V
	Frequency	50/60 Hz
	Output Power	100 W (24 Volts @ 4.2 Amps max)
DC input (power module)	DC input voltage	11 to 32 VDC
	Power in stand-by	18 watts
	Power during call	22 watts
	Power during data	31 watts
Environmental Specs		
ADE (Above Deck Equip.)	Exposure type	RF-transparent dome-shaped cover and metal base
	Temperature range	-30 to +70 deg. Celsius
	Relative Humidity	0 to 93% RH
	Precipitation	meets IPX6 (low pressure continuous spray)

Environmental Specs (cont'd)		
ADE (Above Deck Equip.)	Wind	in excess of 100 mph with proper mounting (see 4-5 of Installation Manual)
BDE (Below Deck Equip.)	Exposure type	IP33 compliant (use inside controlled environment)
	Temperature Range	0 to +50 deg. Celsius
Physical Description		
ADE	Diameter	57.0 cm
	Height	23.0 cm
	Weight	11.0 kg
	Mounting	mounting M10 bolts on flange (~20 cm diameter) connected to pole
BDE	Length	25.0 cm
	Width	19.0 cm
	Height	5.5 cm
	Weight	1.35 kg
	Mounting	indoor, flat, vertical wall (supports BDE weight)
Power module	Length	14.0 cm
	Width	5.9 cm
	Height	3.5 cm
	Weight	< 0.5 lb
Interconnection Cable	Length (1)	45m
	Length (2)	70m (optional)
User Interfaces		
ADE	BDE Connector	Bulgin Buccaneer IP68 (9-pole fixed plug)
BDE	SIM Card	Furnished by Iridium Service Provider
	Data	10 baseT
	Voice 1	RJ-11 (2 wire) / POTS
	Voice 2	RJ-11 (2 wire) / POTS
	Voice 3	RJ-11 (2 wire) / POTS
	ADE Connector	RJ-45 (proprietary)