# Service Management on the RV130 and RV130W

# Objective

A firewall is set of measures created to protect a network by blocking access to unwanted users. The use of a service applies a protocol to a certain range of ports on the firewall. A service is a protocol that applies to a range of ports. Services take certain actions under different protocols.

The objective of this document is to show you how to manage services on the RV130 and RV130W.

## **Applicable Devices**

- RV130
- RV130W

## **Configuring Service Management**

### Adding a Service

Step 1. Log in to the web configuration utility and choose **Firewall > Service Management**. The *Service Management* page opens:

Service Management				
Service Management Table				
Service Name	Protocol	Start Port	End Port	
All Traffic	All			
DNS	UDP	53	53	
FTP	TCP	21	21	
HTTP	TCP	80	80	
HTTP Secondary	TCP	0808	8080	
HTTPS	TCP	443	443	
HTTPS Secondary	TCP	8443	8443	
TETP	UDP	69	69	
IMAP	TCP	143	143	
NNTP	TCP	119	119	
POP3	TCP	110	110	
SNMP	UDP	161	161	
SMTP	TCP	25	25	
TELNET	TCP	23	23	
TELNET Secondary	TCP	8023	8023	
TELNET SSL	TCP	992	992	
Voice(SIP)	TCP & UDP	5060	5061	
VOIP VOIP	TCP & UDP	55555	55556	
Add Row Edit Delete				
Save Cancel				

Step 2. Click Add Row to add a new Service to the Service Management Table.

Service Management				
Service Management Table				
Service Name	Protocol	Start Port	End Port	
All Traffic	All			
DNS	UDP	53	53	
FTP	TCP	21	21	
HTTP	TCP	80	80	
HTTP Secondary	TCP	8080	8080	
HTTPS	TCP	443	443	
HTTPS Secondary	TCP	8443	8443	
TFTP	UDP	69	69	
IMAP	TCP	143	143	
NNTP	TCP	119	119	
POP3	TCP	110	110	
SNMP	UDP	161	161	
SMTP	TCP	25	25	
TELNET	TCP	23	23	
TELNET Secondary	TCP	8023	8023	
TELNET SSL	TCP	992	992	
Voice(SIP)	TCP & UDP	5060	5061	
VOIP VOIP	TCP & UDP	55555	55556	
Add Row Edit Delete				
Save Cancel				

Step 3. Enter a name for the new service in the Service Name column.

	TELNET Secondary	TCP	8023	8023	
	TELNET SSL	TCP	992	992	
	Voice(SIP)	TCP & UDP	5060	5061	
	VOIP	TCP & UDP	55555	55556	
	DATA	TCP 🔹			
Add R	Edit Delete				

Step 4. Select a protocol for the new service in the *Protocol* column.

TELNET SSL	TCP	992	992	
Voice(SIP)	TCP & UDP	5060	5061	
VOIP VOIP	TCP & UDP	55555	55556	
DATA	ТСР			
Add Row Edit Delete				
	TCP & UDP ICMP			
nts reserved.				

The available options are defined as follows:

• TCP — Protocol used to transmit data from an application to the network. TCP is typically used for applications where information transfer must be complete and packets are not dropped. TCP determines when internet packets requires to be re-sent and stops the flow of data until all packets are successfully transferred.

• UDP — Protocol used for client/server network applications based on the Internet Protocol (IP). The main purpose of this protocol is for live applications. (VOIP, games etc.) UDP is faster than TCP because there is no form of data flow control and any collisions and errors will not be corrected. UDP prioritizes speed.

• TCP & UDP — This protocol utilizes both TCP and UDP.

• ICMP — Protocol that sends errors messages and is responsible for error-handling in the network. Use this protocol to get a notification when the network has issues with the delivery of packets.

Step 5. Enter a starting port for the new service in the *Start Port* column. The port numbers are divided into three ranges. The Well Known Ports range from 0 to 1023, the Registered Ports range from 1024 through 29151, and the Dynamic and/or Private Ports range from 49152 to 65535. If your service requires custom or temporary permissions for automatic allocation of ephemeral ports, choose a port number from the Dynamic and/or Private Ports range. If your service requires specific permissions and requests Registered Port access assigned by the Internet Assigned Numbers Authority, choose a port number from the Registered Port range. In a few cases, if your service has superuser privileges and requests

network sockets to bind to an IP address, choose a port from the Well Known Ports range.

	TELNET SSL	TCP	992	992
	Voice(SIP)	TCP & UDP	5060	5061
	VOIP	TCP & UDP	55555	55556
	DATA	TCP -	1088	
Add Ro	W Edit Delete			

Step 6. Enter an ending port for the new service in the *End Port* column.

	TELNET SSL	TCP	992	992
	Voice(SIP)	TCP & UDP	5060	5061
	VOIP	TCP & UDP	55555	55556
	DATA	TCP -	1088	1089
Add Ro	Edit Delete			

#### Step 7. Click **Save** to save the new service.

	or min	001	101	191	
	SMTP	TCP	25	25	
	TELNET	TCP	23	23	
	TELNET Secondary	TCP	8023	8023	
	TELNET SSL	TCP	992	992	
	Voice(SIP)	TCP & UDP	5060	5061	
	VOIP	TCP & UDP	55555	55556	
	DATA	TCP 👻	1088	1089	
Add R	Edit Delete				
Save	Cancel				

The router will upload and process the newly configured service.

HIP	TCP	80	80		
HTTP Secondary	TCP	8080	8080		
HTTPS	TCP	443	443		
HTTPS Secondary	TCP	8443	8443		
TFTP	UDP	69	69		
IMAP	TCP	143	143		
NNTP	Uploading and Processing Data	119	119		
POP3	Oploading and Trocessing Data	110	110		
SNMP		161	161		
SMTP	TCP	25	25		
TELNET	TCP	23	23		
TELNET Secondary	TCP	8023	8023		
TELNET SSL	TCP	992	992		
Voice(SIP)	TCP & UDP	5060	5061		
VOIP	TCP & UDP	55555	55556		
DATA	TCP	1088	1089		
Add Row Edit Delete					

The Service Management Table will update with the new service.

Service Management Table					
Service Name	Protocol	Start Port	End Port		
All Traffic	All				
DNS	UDP	53	53		
FTP	TCP	21	21		
HTTP	TCP	80	80		
HTTP Secondary	TCP	8080	8080		
HTTPS	TCP	443	443		
HTTPS Secondary	TCP	8443	8443		
TFTP	UDP	69	69		
IMAP	TCP	143	143		
NNTP	TCP	119	119		
POP3	TCP	110	110		
SNMP	UDP	161	161		
SMTP	TCP	25	25		
TELNET	TCP	23	23		
TELNET Secondary	TCP	8023	8023		
TELNET SSL	TCP	992	992		
Voice(SIP)	TCP & UDP	5060	5061		
VOIP VOIP	TCP & UDP	55555	55556		
DATA	TCP	1088	1089		
Add Row Edit Delete					
Save Cancel					

#### **Delete a Service**

Step 1. On the Service Management page, check the checkbox next to the service you wish

#### to delete.

Service Management Table					
Service Name	Protocol	Start Port	End Port		
All Traffic	All				
DNS	UDP	53	53		
FTP	TCP	21	21		
HTTP	TCP	80	80		
HTTP Secondary	TCP	8080	8080		
HTTPS	TCP	443	443		
HTTPS Secondary	TCP	8443	8443		
TFTP	UDP	69	69		
IMAP	TCP	143	143		
NNTP	TCP	119	119		
POP3	TCP	110	110		
SNMP	UDP	161	161		
SMTP	TCP	25	25		
TELNET	TCP	23	23		
TELNET Secondary	TCP	8023	8023		
TELNET SSL	TCP	992	992		
Voice(SIP)	TCP & UDP	5060	5061		
VOIP VOIP	TCP & UDP	55555	55556		
🖸 DATA	TCP	1088	1089		
Add Row Edit Delete					
Save Cancel					

Step 2. Click **Delete** to delete the service.

Service Management Table						
Service Name	Protocol	Start Port	End Port			
All Traffic	All					
DNS	UDP	53	53			
FTP	TCP	21	21			
HTTP	TCP	80	80			
HTTP Secondary	TCP	8080	8080			
HTTPS	TCP	443	443			
HTTPS Secondary	TCP	8443	8443			
TFTP	UDP	69	69			
IMAP	TCP	143	143			
NNTP	TCP	119	119			
POP3	TCP	110	110			
SNMP	UDP	161	161			
SMTP	TCP	25	25			
TELNET	TCP	23	23			
TELNET Secondary	TCP	8023	8023			
TELNET SSL	TCP	992	992			
Voice(SIP)	TCP & UDP	5060	5061			
VOIP	TCP & UDP	55555	55556			
🔽 DATA	TCP					
Add Row Edit Delete						
Save Cancel						

Step 3. Click **Save** to save changes.

Service Management						
Service Management Table	Service Management Table					
Service Name	Protocol	Start Port	End Port			
All Traffic	All					
DNS	UDP	53	53			
FTP	TCP	21	21			
HTTP	TCP	80	80			
HTTP Secondary	TCP	8080	8080			
HTTPS	TCP	443	443			
HTTPS Secondary	TCP	8443	8443			
TFTP	UDP	69	69			
IMAP	TCP	143	143			
NNTP	TCP	119	119			
POP3	TCP	110	110			
SNMP	UDP	161	161			
SMTP	TCP	25	25			
TELNET	TCP	23	23			
TELNET Secondary	TCP	8023	8023			
TELNET SSL	TCP	992	992			
Voice(SIP)	TCP & UDP	5060	5061			
VOIP VOIP	TCP & UDP	55555	55556			
Add Row Edit Delete						
Save Cancel						

The router will upload and process the newly configured service.

Service Management Table								
	Service Name		Protocol	Start Port	End Port			
	All Traffic		All					
	DNS		UDP	53	53			
	FTP		TCP	21	21			
	HTTP		TCP	80	80			
	HTTP Secondary		TCP	8080	8080			
	HTTPS		TCP	443	443			
	HTTPS Secondary		TCP	8443	8443			
	TFTP	U	Jploading and Processing Data	ta 69	69			
	IMAP				143			
	NNTP			119	119			
	POP3		TCP	110	110			
	SNMP		UDP	161	161			
	SMTP		TCP	25	25			
	TELNET		TCP	23	23			
	TELNET Secondary		TCP	8023	8023			
	TELNET SSL		TCP	992	992			
	Voice(SIP)		TCP & UDP	5060	5061			
	VOIP		TCP & UDP	5555	5556			
<b>V</b>								
Add Row Edit Delete								
Save Cancel								

## The Service Management Table will update with the deleted service removed.

Service Management Table									
Service Name	Protocol	Start Port	End Port						
All Traffic	All								
DNS	UDP	53	53						
FTP	TCP	21	21						
HTTP	TCP	80	80						
HTTP Secondary	TCP	8080	8080						
HTTPS	TCP	443	443						
HTTPS Secondary	TCP	8443	8443						
TFTP	UDP	69	69						
IMAP	TCP	143	143						
NNTP	TCP	119	119						
POP3	TCP	110	110						
SNMP	UDP	161	161						
SMTP	TCP	25	25						
TELNET	TCP	23	23						
TELNET Secondary	TCP	8023	8023						
TELNET SSL	TCP	992	992						
Voice(SIP)	TCP & UDP	5060	5061						
VOIP	TCP & UDP	55555	55556						
Add Row Edit Delete									