



Abstract:

This document provides a step by step procedure to configure port forwarding in RAM/SN series router

Products:

SN 6000, RAM 6000, RAM 9000

Use Case: SN/RAM Port Forwarding

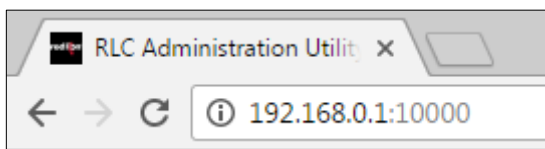
Port Forwarding (Host Redirect) rules helps to permit ports on external, untrusted interfaces to be passed to ports on internal hosts on the same or different ports. This allows multiple devices such as HMI, PLC etc. which have different IP address on a LAN to be accessed by a single internet IP address.

Required Software:

Web browser

Log into the SN/RAM Web Interface

1. Type the device's LAN/WAN IP, port 10000 into a web browser.



2. User Name: admin.
3. Password: Last six digits of the device's serial number.

A screenshot of an "Authentication Required" dialog box. The dialog box has a title bar with a close button. The main text reads: "http://192.168.0.1:10000 requires a username and password." followed by "Your connection to this site is not private." Below this text are two input fields. The first is labeled "User Name:" and contains the text "admin". The second is labeled "Password:" and contains six asterisks "*****". At the bottom right of the dialog box are two buttons: "Log In" and "Cancel".

Create Port Forwarding Rules

1. Navigate to *Network - Firewall - Port Allow/Forwarding Rules*.
2. Scroll down to Host Redirect (Port Forwarding) rules.
3. Click *Add*, a popup window appears to setup the port forwarding rule.
 - a) **Original Destination Port:** Enter the port that an external device will try to connect to. This is the port that will be open on the specified interface.
 - b) **Select Interface:** Click on the pull down menu to select the interface where the specified port will open.
 - c) **New Destination IP Address:** Enter the IP Address that the incoming connection will be redirected to. This can be an IP address of the device behind the router.
 - d) **New Destination Port:** Enter the port that the incoming connection will be redirected to. This can be the same port number or a different port number as the Original Destination Port. This is the port number of the device behind the router.
 - e) **Select Protocol:** Choose the protocol type, TCP or UDP, for this port's data.
 - f) **Source subnets via whitelist:** Select a whitelist name from the list of names available in the drop-down list box provided. Whitelists can be viewed or defined via the **Networking - Firewall - Subnet Whitelist Rules** screen.
 - g) Click *Finish*.
4. Repeat steps 3a-3g as needed.

Host Redirect Rules Settings

Label

?

Original Destination Port

8080

?

Required

Select Interface:

All Untrusted

▼

?

New Destination IP Address

192.168.1.20

?

Required

New Destination Port

80

?

Required

Select Protocol

TCP

▼

?

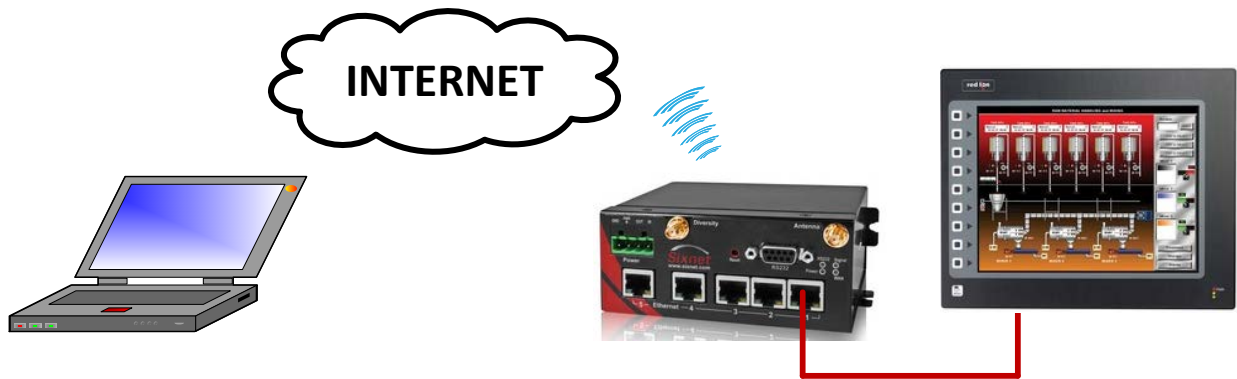
Source subnets via Whitelist:

default

▼

?

Finish

Topology:**Disclaimer:**

It is the customer's responsibility to review the advice provided herein and its applicability to the system. Red Lion Controls makes no representation about specific knowledge of the customer's system or the specific performance of the system. Red Lion is not responsible for any damage to equipment or connected systems. The use of these documents is at your own risk.

For more information: <http://www.redlion.net/support/policies-statements/warranty-statement>

