

User Manual

RollNet IP Share

Information and Notices

Copyright and Disclaimer

Copyright protection claimed includes all forms and matters of copyrightable material and information now allowed by statutory or judicial law or hereinafter granted, including without limitation, material generated from the software programs which are displayed on the screen such as icons, screen display looks etc.

Information in this manual and software are subject to change without notice and does not represent a commitment on the part of SAM. The software described in this manual is furnished under a license agreement and can not be reproduced or copied in any manner without prior agreement with SAM, or their authorized agents.

Reproduction or disassembly of embedded computer programs or algorithms prohibited.

No part of this publication can be transmitted or reproduced in any form or by any means, electronic or mechanical, including photocopy, recording or any information storage and retrieval system, without permission being granted, in writing, by the publishers or their authorized agents.

SAM operates a policy of continuous improvement and development. SAM reserves the right to make changes and improvements to any of the products described in this document without prior notice.

Contact Details

Customer Support

For details of our Regional Customer Support Offices please visit the SAM web site and navigate to Support/Contact Support.

www.s-a-m.com/support/contact-support/

Customers with a support contract should call their personalized number, which can be found in their contract, and be ready to provide their contract number and details.

Contents

Information and Notices	. 2
Copyright and Disclaimer	. 2
Contact Details	. 2
1. Introduction	. 4
2. Open RollNet IP Share	. 5
2.1 Configurator Menu Bar	. 5
2.1.1 File Menu	. 5
2.1.2 Look & Feel Menu	. 5
2 1 3 Help Menu	5
2.2. Configurator Interface	. 0
	. 0
3. Starting and Stopping RollNet IP Share	. 7
4. RollNet IP Share in the RollCall Control Panel	. 8
4 1 Unit Status	8
4.2 Bridging	. Q
4.2 Satun	10
4.5 Setup	10
	.11
4.5 KOIIINET	12

1. Introduction

The RollNet IP Share service provides a direct connection into a RollNet network, and allows this connection to be shared by multiple applications on the same PC or on other PCs on a computer network.

The PC providing the RollNet IP Share service must have a RollNet adapter fitted.

This can either be a USB22 RollNet adapter (RollUSB), or an adapter for PCI-bus PC workstations (RollPCI). The other PCs using the shared connection need only a TCP/IP link to the sharer PC.

For more information about installing a RollNet adapter, refer to the RollPCI and RollUSB documentation.

The server PC must also be running TCP/IP protocol drivers. Assign an IP address or IP name to this PC. For more information, refer to the Microsoft documentation on how to install TCP/IP for your operating system.

2. Open RollNet IP Share

When RollNet IP Share is installed, a shortcut to the RollNet IP Share Configurator is created in the Windows program list on the Start menu and a RollNet IP Share icon () is placed in the notification area of the Windows taskbar.

To open the Configurator, do one of the following:

- Click Start > All Programs > SAM > RollCall > RollNet IP Share Configuration.
- Double-click on the RollCall IP Share icon in the notification area.

The Configurator displays.

🎦 RollNet IP Share 📃 🗉 💌
File Look & Feel Help
Physical Network Adapter
O USB ○ PCI
Server IP Port
2057 Set
RollNet Node Address (in decimal)
132 Set
Service Status: STOPPED

Figure 1 RollNet IP Share Configurator

2.1 Configurator Menu Bar

2.1.1 File Menu

	Start Service/Stop Service	Toggles between starting and stopping the RollNet IP Share Service, depending on the current state.
	Minimise to System Tray	Hides the Configurator from view. The Configurator can be resumed by clicking on the RollNet IP Share icon in the notification area of the Windows taskbar.
	Exit	Exits the RollNet IP Share Configurator.
		Note: Exiting the Configurator does not stop the RollNet IP Share Service, if it is running.
2.1.2	Look & Feel Menu	
	Dark Theme	A light text on dark background color scheme.
	Bright Theme	A dark text on light background color scheme.
Note:	Changing the color scheme displays	a dialog prompting for the application to be restarted.
2.1.3	Help Menu	

User Manual About

Opens a pdf file of the RollNet IP Share User manual. Displays information about RollNet IP Share.

2.2 Configurator Interface

The following parameters must be specified:

The type of physical network adapter	Select the relevant radio button depending on the adapter being used:		
	USB, or PCI		
The IPShare server port	The port through which IP share will listen for incoming client calls.		
	By default this is port 2057, but, depending on the configuration, this may need to be changed to avoid conflicting with other RollCall components.		
The RollNet node address of the IP Share	The RollNet node address of the IP Share node, in decimal.		
	The default value is 132 (Hex 0x84).		

Changing any of the above parameters will cause RollNet IP Share to restart, if it is running.

3. Starting and Stopping RollNet IP Share

RollNet IP Share runs as a Windows service. By default, it is configured to start automatically when the computer is started.

Note: Configure the RollNet IP Share before starting the service for the first time. Once configured, the Configurator does not need to display for the RollNet IP Share Service in order to start.

Right-click on the icon in the notification area of the Windows taskbar to display the following menu:

Show RollNet IP Share Configurator	Opens the RollNet IP Share Configurator
Hide RollNet IP Share Configurator	Closes the RollNet IP Share Configurator
Exit RollNet IP Share Configurator	Exits the RollNet IP Share Configurator
Start RollNet IP Share Service	Starts the RollNet IP Share service. The icon in the notification area displays with blue background <i>[</i> .
Stop RollNet IP Share Service	Stops the RollNet IP Share service. The icon in the notification area displays with a red background

When the RollNet IP Share Configurator is running, the RollNet IP Share Service status is reported at the bottom of the screen, as either **RUNNING** or **STOPPED**.

le <u>Action View H</u> elp						
🔿 🔁 🖬 🖬 🖉						
Computer Management (Local	Services					Actions
System Tools						Services
I ask Scheduler	RollNetIpShare	Name	Description	Status	Startup Type 🖍	More Actions
Shared Folders	Chard all a second sec	RollIPProxy	Connect m		Manual	
M Local Users and Groups	Start the service	🔅 RollNetIpShare	Allows Roll		Manual	RollNetIpShare
Performance		🔍 Routing and Rem	Offers routi		Disabled	More Actions
Device Manager	Description:	🔍 RPC Endpoint Ma	Resolves RP	Started	Automatic	
Storage	Allows RollNet devices to be	🔍 Secondary Logon	Enables star		Manual	
Disk Management	controlled via Kolicali IP Share	🔍 Secure Socket Tun	Provides su	Started	Manual	
Services and Applications		🔍 Security Accounts	The startup	Started	Automatic	
🔅 Services		🔍 Security Center	The WSCSV	Started	Automatic (D	
📸 WMI Control		🔍 Server	Supports fil	Started	Automatic	
B SQL Server Configuratic		🔍 Shell Hardware De	Provides no	Started	Automatic	
		🔍 Smart Card	Manages ac	Started	Automatic	
		🔍 Smart Card Remo	Allows the s		Manual	
		🌼 SmartSVN Status		Started	Automatic	
		🔍 SMS Agent Host	Provides ch	Started	Automatic	
		🔍 SNMP Service	Enables Sim	Started	Automatic	
		🔍 SNMP Trap	Receives tra		Manual	
		Software Protection	Enables the		Automatic (D 😑	
		🔍 SPP Notification S	Provides So		Manual	
		🔍 SQL Active Direct	Enables inte		Disabled	1
		🔍 SQL Server (SQLEX	Provides sto	Started	Automatic	
		🔍 SQL Server Agent	Executes jo		Disabled	
		🔍 SQL Server Browser	Provides SQ	Started	Automatic	
		🔍 SQL Server VSS Wr	Provides th	Started	Automatic	
		🔍 SSDP Discovery	Discovers n	Started	Manual	
		🔍 Storage Service	Enforces gr		Manual	
		🔍 Superfetch	Maintains a		Manual	
		·** · · · · · · · · · · · · · · · · · ·		A	· · · · · · · · · · · · · · · · ·	

Figure 2 Windows Computer Management Window

4. RollNet IP Share in the RollCall Control Panel

RollNet IP Share can be monitored and controlled from the RollCall Control Panel.

RollCall Control Panel			
I 🖡 🛯 😫 🖉 🐌 🍕 📦	④ ➡ 🗔 ⇐ ⇒ 🗇 🚍	🔲 📄 💣 🧳 RollNetipShare	(RC32 Rout IPSh Svr) [0000:87:00] *
172.19.77.182	RollNetlpShare 0000.87.00 - RC32 Rout I	PSh Sw	- # X
Image: Comparison of the	2) Strup U IP Bindge P IP Share Statistics N RollNet Statistics C	nitStatus 7: 173.15.77.102 5xt: 2050 dde: 0x87 xxd: Roll038	-
	Unit Name RollNetipShare P S	V Net Show	
	Software Version 4.5.2	RollNet Card Type RollUSB	
·	Build Number 4	RollNetAddress 0x87	
Connected Units Custom Groups	Start Time 2013-12-17T09:07:48	IP Address 172.19.77.182	
X 候 🔍 🕢 🧮 🔄 🔚 🏹 🏈	Misc Information 1	IPShare Port 2050	-
	Nisc Information 2	Pass WAN Packets	
Network Status: CONNECTED	Network Activity: 0 pkt/sec	Memory Use:	20 MB

Figure 3 RollCall Control Panel

4.1 Unit Status

Unit Status is displayed on each RollCall Control Panel screen.

Unit St IP: 1	atus 72.19.77.182	
Port:	2050	
Node:	0x87	
Card:	RollUSB	

Figure 4 Unit Status

- **IP** The IP address of the IP Share computer.
- **Port** The port through which IP share communication is made.
- **Node** The IP Share RollCall Network node address, in hexadecimal.
- Card The type of IP Share RollNet card.

4.2 Bridging

The Bridge screen displays information about the remote IP address, bridge port and connection status.

RollCall IP Bridging	
Remote IP Address	128.1.1.1 S
Bridge IP Port	2600
Accept incoming co	nnections from this address only
Connect	Disconnect Connect Automatically
- Pass WAN Packate -	
SP IAM	SP TIME
Remote IP Address	IP Bridging N/A
Started by	Unit Addr = 0x87
Start Time	Accepted=(0x1-0xF)!
Packets Received	-
Packets Sent	-
Enable Stats	Reset Stats
Enable otata	

Figure 5 Bridging Page

Remote IP Address	The IP Address of the remote RollNet IP Share unit.			
	To change the IP Address, type a new address in the field and then click \fbox			
Bridge IP Port	The port number for the IP Bridge.			
Accept incoming connections from this address only	When this option is selected connections may only be made via the Remote IP Address specified.			
	Connections can be made manually with the Connect and Disconnect buttons, or automatically if the Connect Automatically checkbox is selected.			
SP_Time	This controls whether the RollNet IP Share passes wide area TIME packets across the bridge.			
SP_IAM	This controls whether the RollNet IP Share passes wide area I_AM packets across the bridge.			
Remote IP Address	This displays the IP address of the remote end of the IP Bridge (when connected).			
Started By	This shows who initiated the bridge connection.			
Started Time	This shows the time at which the bridge connection was established.			
Packets Received	This shows how many packets have been received on this IP connection.			
Packets Sent	This shows how many packets have been sent on this IP connection.			
Enable Stats	When this option is selected, these statistics are gathered.			
Result Stats	Click this button to reset all counts to zero.			

4.3 Setup

The Setup screen displays information about the IP Share card and software, allows the IP Share node to be renamed, and additional information to be entered.

Unit Name RollNetlpShare	PS	✓ Net Show
Software Version 4.5.2		RollNet Card Type RollUSB
Build Number 4		RollNet Address 0x87
Start Time 2013-12-17T09:07:48		IP Address 172.19.77.182
Misc Information 1	PS	IPShare Port 2050
Misc Information 2	PS	Pass WAN Packets Image: SP_IAM Image: SP_TIME

Figure 6 Setup Page

Unit Name	The name of the RollNet IP Share unit
	To change the name, type a new name in the field and then click 5
	To return the name to its preset value of RollNetIpShare, click P
Software Version	The currently installed version of the RollNet IP Share service
Build Number	The build number of the current software version
Start Time	The time that the RollNet IP Share service was last started
Misc Information 1&2	These fields allow additional informational text to be entered. This information is not shared with any other RollCall components
Net Show	When Net Show is selected, the IP Share is visible on the network
RollNet Address	The RollNet address of the IP Share unit, in hexadecimal
RollNet Card Type	The type of IP Share RollNet card
IP Address	The IP address of the IP Share unit
IP Share Port	The port through which IP Share communication is made
SP_Time	This controls whether the RollNet IP Share passes wide area TIME packets.
SP_IAM	This controls whether the RollNet IP Share passes wide area I_AM packets.

4.4 IP Share Connections

The IP Share Connections page displays information about IP connections to IP Share. The information displayed refers to a single connection, which is selected by the Show Connection control.

- Client Connections			
IP Address	172.31.7.10	TCP Port	65244
Port Name	Name Not Known	Port Number	29
Start Time	2013-12-17T10:07:25	Sent Time?	No
Packets Rece	ived -		
Packets Sent	-		
Show Connec	tion 1 💿		P
Connection History			
Last Rejected CI	ient -	Reject Count	
Last Closed Clie	nt -	Closed Count	

Figure 7 IP Share Connections Page

IP Address	This displays the IP address of the remote unit on the IP Share connection.
TCP Port	This displays the incoming TCP port number of the RollCall IP share connection.
Port Name	This shows the name under which this IP connection appears.
Port Number	This shows the RollCall port that this IP connection corresponds to.
Start Time	This shows the time at which the IP connection was started.
Sent Time?	This shows if the remote unit on this IP connection has ever sent a TIME packet.
Packets Received	This shows how many packets have been received on this IP connection.
Packets Sent	This shows how many packets have been sent on this IP connection.
Show Connection	Use the slider bar to select which IP connection statistics are shown for.
Last Rejected Client	This shows the IP address of the last client that was rejected by IP Share.
Reject Count	This shows the total number of IP connections that have been rejected.
Last Closed Client	This shows the IP address of the last client to close its connection to IP Share.
Closed Count	This shows how many IP Share connections have been closed - either by the IP Share service or the client.
Enable Stats	When this option is selected, statistics will be updated. If this option is not selected statistics will not be updated.
Reset Stats	Click to reset all statistic counters.

4.5 RollNet

The RollNet page displays various errors that may occur. In the event of a problem, these error messages may assist SAM support to troubleshoot the issue.

Statistics		1
Data Length Errors:	-	
Destination errors :	-	
Source errors :	-	
Packet type Errors :	-	
Routing Errors :	-	
Dropped Packets :	-	
Recons :	-	
Network Present:	-	
Enable Stats	Reset Stats	

Figure 8 RollNet Statistics Screen

Data Length Errors:	This counts all packets that are of incorrect length.	
Destination Errors:	This counts all packets that have an incorrect destination identifier.	
Source Errors:	This counts all packets that have an incorrect source identifier.	
Packet type Errors:	This counts all packets that have an incorrect packet type.	
Routing Errors:	This counts all packets that cannot be routed to the indicated destination.	
Dropped Packets:	This counts all packets that cannot be delivered.	
Recons:	This counts network reconfigurations.	
	Network reconfigurations are normal events, and occur when units join or leave the network. They may also occasionally occur as a result of electrical interference.	
	However, constant network reconfigurations usually indicate a physical fault. Possible faults include:	
	• Faulty T piece or cable.	
	Missing termination or terminations.	
	Incorrect value of termination or terminations.	
	Clash of RollCall addresses.	
	Network cable length exceeded.	
	Number of unit loads per segment exceeded.	
Network Present:	This indicates whether the RollCall network is present or not.	
Enable Stats	When this option is selected, these statistics are gathered.	
Result Stats	Click this button to reset all counts to zero.	
Net Show	When Net Show is selected, the IP Share is visible on the network.	