

ATX-RS-MGR1-V1.0 April 2013

RS-MGR1 Application Tips

NXDN[™] CAI-based IDAS[™]



10100101010100 10100010 Icom Inc. **Export Version**

Foreword

IMPORTANT

The system in this Application TIP has been tested under certain conditions, and the operation has been confirmed. However, it may not work properly under different conditions. Therefore, we strongly recommend you that you test the system thoroughly before offering it to your clients.

CAUTION!

There are restrictions on the IP connection that can be used for the demo system. The IP address should be a static IP address.
The RS-MGR1 supports only in the Multi-site Trunking operation. Therefore, you must set the repeater to the Multi-site Trunking mode.

REQUIRED EQUIPMENT

Hardware	Firmware Type	Revsion
	DSP (Digital)	2.40 or greater
IC-FR5000 Series (1 set)	Main (CPU)	2.60 or greater
	Front (Front Panel)	1.20 or greater
UB EB5000 #02	Main/MCU	4.00 or greater
08-FR3000 #03	SUB/SCU	3.40 or greater

Software	Revision
CS-FR5000 #01	1.8 or greater
RS-MGR1	1.0 or greater

PC's OS: Microsoft® Windows Vista®, Window® 7 or Windows® 8

CONNECTION



SETUP PROCEDURE

countries.

This application tip explains how to set the PC's firewall, UC-FR5000, IC-FR5000 and RS-MGR1 for using the RS-MGR1. You can set those equipments by checking or setting from STEP1 to STEP5 procedures.

STEP1	Check the UC-FR5000 Main/MCU revision number		
STEP2	PC's Firewall settings]	
STEP3	UC-FR5000 settings]	
STEP4	IC-FR5000 settings		
STEP5	RS-MGR1 settings		

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Check

STEP1 Check the UC-FR5000 Main/MCU revision number

Open Internet Explorer, and then access the UC-FR5000. Check the UC-FR5000's Main/MCU revision using Internet Explorer.

If the revision is 3.80 or older, update the firmware of the UC-FR5000 Main/MCU to revision 4.00 or greater.

NOTE: Check the all repeater's Main/MCU revision number you want to manage by the RS-MGR1.

UC-FR5000 Web Settings Revision 4.00 (NXDN)

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STEP2 PC's Firewall settings

For Windows Vista Users

The programs listed below must be allowed in the Windows Firewall settings.

- RsMgr1Service.exe
 - This is the RS-MGR1 service program. C: $Program Files \ Ncm \ RS-MGR1 \ RsMgr1Service.exe$
- To access the "Windows Firewall settings" within Microsoft® Windows Vista®:
- **(1)** Control Panel
- 2 Windows Firewall
- **③** Allow a program through the Windows Firewall

♦ Windows Firewall exception list

Follow the steps below to to add a program to the Windows Firewall exception list.

① Click [Add Program...] in the Exception list in the "Windows Firewall Settings" window to display the Add a Program dialogue.

2)	Click	Browse	l to	open	the	Browse	window.
9	0.101.1		1.00	0000		5101100	

Windows Firewall Settings
General Exceptions Advanced
Exceptions control how programs communicate through Windows Firewall. Add a program or port exception to allow communications through the firewall.
Click etaco
Add program Add port Properties Delete
▼ Notify me when Windows Firewall blocks a new program
OK Cancel Apply
OK Cancel Apply

Add a Progr	am X
Select the p listed, and	program you want to add, or click Browse to find one that is not then click OK.
Programs:	
	nace
Path:	C:\Program Files\NVIDIA Corporation\3D Visio Browse
	Click
Change sco	ope OK Cancel

(3) Select the executable data "RsMgr1Service" and click [**Open**] in the Browse window, and then click [**OK**] in the Add a Program window.

Browse	Program	Files ► Icon	m ► RS-MGR1	- 4	Search	x
🖣 Organize 🔻	III Views	👻 📑 N	ew Folder	_	_	
Favorite Links		Name RsMgr1	Date modif	Туре	Size	
Gill Recent Diace	-					
Folders	^					
	File name:	RsMgr1Serv	vice	•	Click	e:".com:".icc 💌

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STEP2 PC's Firewall settings (Continued)

For Windows 7 or 8 Users

The instructions below are based on using Microsoft® Windows® 8

The programs listed below must be allowed for the Windows Firewall.

RsMgr1Service.exe

This is the RS-MGR1 service program. C:\Program Files\lcom\RS-MGR1\RsMgr1Service.exe

To access the "Windows Firewall with Advanced Security" within Microsoft® Windows® 7 and 8:

- **1** Control Panel
- (2) Windows Firewall
- **3** Advanced Settings

Windows Firewall exception list

Follow the steps below to add a program to the Windows Firewall exception list.

- ① Click [Inbound Rules...] in the "Windows Firewall with Advanced Security" window.
- 2 Click [New Rule...] to launch the New Inbound Rule Wizard.

@	Win	dows Firewall with Advanced Sec		- • ×	
Eile Action View Hel	p				
🗢 🔿 🔊 🔚 🔒 🛛 😰					
Winnows rnewall with A	dvance Inbound Rules			Actions	
Inbound Rules	Name	Group	Profile ^	Inbound Rules	
Connection Security	Rules Bandicam		Public	New Rule	
			A 1.0	Select	

- **③** Follow the instructions in the New Inbound Rule Wizard.
- Set the Rule Type, Program, Action, Profile, and Name in the New Inbound Rule Wizard to complete the settings.
- (4) When step (3) is completed, the new program exception will appear within the inbound exceptions list.

Rule Type

Select the type of firewall rule to create.



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STEP3	UC-FR5000 settings					

NOTE:

- The RS-MGR1 supports only the Multi-site Trunking operation.
- Set the all UC-FR5000 you want to manage by the RS-MGR1.

1. <u>Click "Maintenance", then click "Syslog Settings".</u>

Maintenance	Syslog Settings		
 Setting Save/Load Save Load DB Load Syslog Setting NTP Settings Change Login Setting Initialize Information Application Add-on 	Syslog Function 📽 Syslog Server IP Address 📽 Syslog Server Port 📽 Protocol 📽	OFF ON 192.168.10.11 514 © UDP	0 (1 - 65535) ○ TCP
	Alert Warning Information Notice	 Disable Disable Disable Enable Disable Enable Disable Enable 	

1) Set "Syslog Function" to "ON".

2 Input the PC's IP address* to "Syslog Server IP address".

*Ask your system administrator for details.

③ Set "Alert," "Warning," "Information" and "Notice" to "Enable," then click "WRITE."

2. Click "Maintenance", then click "NTP Settings".

Maintenance Setting Save/Load Save Load DB Save DB Load Syslog Setting NTP Settings Change Login Setting Initialize Information Application Add-on	NTP Settings	-17 Wed 14:13:45 ● ON ● OFF
	Server 1 Server 2 Server 3	0.fedora.pool.ntp.org 1.fedora.pool.ntp.org 2.fedora.pool.ntp.org
	Time Zone Sett Manual Setting	ings UTC+9 - 2013 - 04 - 17 14 : 13 : 45 WRITE

1 Set "NTP Mode" to "ON".

② Input the NTP (Network Time Protocol) server's address in "Server1", "Server2" and "Server3", if necessary. Then click "WRITE".

NOTE: If you use "Server1", "Server2" and "Server3" default settings, also set the "DNS server". See below for details.

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STEP3	UC-FR5000 settings (Continued)

Click "General Settings", then click "Network Settings".

General Settings	Network Settin	gs🕏	<u> </u>			
Network	DHCP Client Mode		© ON	۲	OFF	
	IP address	192	. 168	. 10	. 10	
	Subnet mask	255	. 255	. 255	. 0	
	Broadcast	192	. 168	. 10	. 255	
	Default gateway	192	. 168	. 10	. 1	
	DNS Server	192	. 168	. 10	. 40	
		Domain for connection check with DNS			IS	
	Host name	ucfr50	00			
	MTU	1500				(500 - 1500)
			WRIT	E		

Input the "DNS Sever IP address*" into "DNS Server", then click "WRITE". *Ask your system administrator for details.

3. Click "Multi-site Settings", then click "SNMP".

NOTE: If you don't use the SNMP trap function, skip this setting.

Multi-site Settings	Repeater Settings - SN	IMP
 Repeater Settings] System Management Registration Information SNMP Expert Air Time Logging Site Settings] Site Management Repeater Information Conversion Table Restriction System Settings] Elect Settings 	SNMP Read Community(V1/V2C) Write Community(V1/V2C) Trap IP Address Receive Port V3 Settings User Name(V3) Password(V3) Password re-entry(V3)	public private 192.168.10.11 Default
Destination Settings		WRITE

Input PC's IP address* into "Trap IP address", if necessary. Then click "WRITE". *Ask your system administrator for details.



Run the CS-FR5000, and then set the IC-FR5000's "Connection Speed" to "9600" and "Mode" to "PC CMD V2".

NOTE: Set the all IC-FR5000 you want to manage by the RS-MGR1.



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STEP5 RS-MGR1 settings

NOTE:

- Install the RS-MGR1 on the PC before you start the RS-MGR1 settings.
- Create the log folder in your PC. The folder is necessary for the log folder settings.
- For example: Create a "RS-MGR1-LOG" folder in the C-drive root directory.

1 Run the RS-MGR1



1 Double-click the RS-MGR1 icon on your PC's desktop to run the RS-MGR1.

- (2) The login window as shown in the left illustration appears, then input the User name and Password, and then click [Login]. The default settings of User name and Password are:
 - User name: Admin
 - Password: admin

2 Log folder setting



NOTE: When you run the RS-MGR1 the first time, set the log folder as shown to the left.

- (1) Click "Setting" on the Menu bar, then a dropdown list appears.
- 2 Click "System Settings" on the list, then "System Settings" window appears.
- ③ Click the "Save folder" item, then [...] appears in the item.
 - Click [...] on the "Save folder" item of the "System Settings" window, then the "Browse for Folder" window appears.
- ④ Select the log folder that you made before, then click [OK].
- **(5)** Click [Update] in the "System Settings" window.

3 Site adding

- 1 Click "Setting" on the Menu bar, then a dropdown list appears.
- (2) Click "New", and then click "Site" on the list, then the "Site Settings" window appears.
- ③ Set the "Site code" to the same code as UC-FR5000's setting as shown below.
- ④ Input the Site name in "Site name".
- **(5)** Click [Update] in the "System Settings" window.





STEP5 RS-MGR1 settings (Continued)

4 Repeater adding

① Click the "Site icon" on the Repeater List, and right-click the icon; the menu appears.



② Click "New Repeater", and then the "Repeater Settings" window appears.
 ③ Set the "Repeater ID" and "IP address" the same as the UC-FR5000 settings.

NOTE: Repeat (1) to (3), if you want to add other repeaters.



5 Save the setting data



① Click "File" on the Menu bar, then a dropdown list appears.

(2) Click "Save As", and then save the RS-MGR1's setting to your PC.