

Installation Guide

RG-SNC_2.33_EN_Build20161108

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- Ruijie Networks website: <u>http://www.ruijienetworks.com/</u>
- Ruijie service portal: <u>http://case.ruijienetworks.com</u>

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Preface

Thank you for choosing Intelligent Network Commander (hereinafter referred to as "RG-SNC system"). It is a great honor of us having you as our customer. In order to help you master the system operations within the shortest possible time, we have prepared this detailed user manual, and included electronic documents in the installation CD.

We did our best to make this user manual comprehensive and easy to understand. From it, you can get inform of installation environment, basic operations, software usage, and relevant precautions, as well as instruction that you can follow to meet your needs.

Before starting the initial installation and using the software, please thoroughly read all documents in the CD so as to better use the RG-SNC system.

To make the RG-SNC system to better meet user requirements, we may update the software periodically. Therefore, the practical functions of the software may differ from the function descriptions given in the user manual. The software is subject to changes without prior notice. For details on the software updates, please visit our website or dial our customer service hotline.

Due to some technical reasons, there might be errors or omissions in this manual. We are sorry for that and your corrections are more than welcome.

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1. Installation Preparation

Before installing the RG-SNC system, please make sure that the server or PC on which the software will be installed meets the following software and hardware configuration requirements and RG-SNC hardware dongle issued by Ruijie Networks Co., Ltd. is plugged to the USB port on the server or PC.

Note: Server time needs to be correctly set. For example, the server time should be set to 2011-6-1 11:00 if the current time is 2011-6-1 11:00.

1.1 Hardware Platform

1.1.1 Server Configuration Requirement

SNC Configuration Requirement (Wired Device)

Devices	CPU	Memory	Free Space	NIC	OS
200	4-core CPU, >2.0Hz	4G	50G	1000M	Windows 2003/2008/2012 32/64-bit
500	4-core CPU, >2.0Hz	8G	100G	1000M	Windows 2003/2008/2012 32/64-bit

1000	8-core CPU, >2.0Hz	16G	200G	1000M	Windows 2003/2008/2012 32/64-bit
3000	16-core CPU, >2.0Hz	32G	500G	1000M	Windows 2003/2008/2012 32/64-bit
5000-10000	32-core CPU, >2.0Hz	32G	1T	1000M	Windows 2003/2008/2012 32/64-bit

SNC-WLAN Configuration Requirement (Wireless Devices)

APs	CPU	Memory	Free Space	NIC	OS
500	4-core CPU, >2.0Hz	4G	50G	1000M	Windows 2003/2008/2012 64-bit
1000	4-core CPU, >2.0Hz	8G	100G	1000M	Windows 2003/2008/2012 64-bit
3000	8-core CPU, >2.0Hz	16G	200G	1000M	Windows 2003/2008/2012 64-bit
8000	16-core CPU, >2.0Hz	32G	500G	1000M	Windows 2003/2008/2012 64-bit

1.2 Software Platform

OS: Microsoft Windows Server 2003/2008/2012 Enterprise Version or Standard Version

Database system: MySQL5.5

Recommend Version is MySQL-5.5.19-win32

2. MySQL Database Installation

MySQL database server needs to be installed first as the RG-SNC system uses it as database server. The version of it is mysql-5.5.19-win32.

If the MySQL database server has already been installed in the system, please backup the important data of the original MySQL database server, and then go to **Start > Control Panel > Add/Remove Programs** to remove the MySQL database server, and then reinstall the MySQL database server.

Note: It is recommended not to install the MySQL database server in **Local Disk**, in case that the disk space is not enough because of too much system storage.

Step 1: Double click the MySQL setup program to start the installation, as shown in the following figure. Click Next.



Step 2: The Setup Wizard page is displayed, as shown in the following figure. Choose Custom, and then click Next.

😸 MySQL Server 5.5 Setup	_		×
Choose Setup Type Choose the setup type that best suits your needs		(
Typical Installs the most common program features. Recommended f	for mo:	st users.	
Custom Allows users to choose which program features will be installed they will be installed. Recommended for advanced users.	ed and	where	
Complete All program features will be installed. Requires the most disk	space.		
Back Next		Can	cel

Step 3: The page for selecting the installation directory is displayed, as shown in the following figure. You can click **Change...** to change the installation path of the MySQL database server. Select the installation path of the MySQL database server, and then click **Next**.

3

Note: It is not recommended that you install the MySQL database server in the same disk partition as the RG-SNC system. Please select a different disk partition.

😸 MySQL Server 5.5 Setup	– 🗆 X
Custom Setup Select the way you want features to be installed	
Click the icons in the tree below to change the w	ay features will be installed.
Image: WysqL Server Image: WysqL Serv	Install MySQL Server This feature requires 0KB on your hard drive. It has 2 of 2 subfeatures selected. The subfeatures require 0KB on your hard drive.
Location: D:\Program Files (x86)\MySQL	MySQL Server 5.5\ Browse
Reset Disk Usage	Back Next Cancel

Step 4: MySQL database server installation settings are displayed, as shown in the following figure. Click **Install** to start the installation. "MySQL Enterprise" description page will be displayed during the installation. Click **Next** to continue.

👸 MySQL Server 5.5 Setup	_		\times
Ready to install MySQL Server 5.5			
Click Install to begin the installation. Click Back to review or chan installation settings. Click Cancel to exit the wizard.	ge any of you	ır	
Back Insta		Cano	el
劇 MySQL Server 5.5 Setup	_		×
WySQL Server 5.5 Setup Installing MySQL Server 5.5	-		×
WySQL Server 5.5 Setup Installing MySQL Server 5.5 Please wait while the Setup Wizard installs MySQL Server 5.5.	-		×
MySQL Server 5.5 Setup Installing MySQL Server 5.5 Please wait while the Setup Wizard installs MySQL Server 5.5. Status: Validating install	-		×
WySQL Server 5.5 Setup Installing MySQL Server 5.5 Please wait while the Setup Wizard installs MySQL Server 5.5. Status: Validating install			×
MySQL Server 5.5 Setup Installing MySQL Server 5.5 Please wait while the Setup Wizard installs MySQL Server 5.5. Status: Validating install			×
MySQL Server 5.5 Setup Installing MySQL Server 5.5 Please wait while the Setup Wizard installs MySQL Server 5.5. Status: Validating install			×

MySQL	A MySQL Enterprise subscription is the most comprehensive offering of MySQL database software, services, and support to ensure your business achieves the highest levels of reliability, security, and uptime.
Enterprise	An Enterprise Subscription includes:
1. The MySQL Enterpriversion of the world's most	se Server - The most reliable, secure, and up-to-date popular open source database.
2. MySQL Enterprise M	Ionitor Service - An automated virtual database
assistant.	
assistant. 3. MySQL Production S you need it, along with serv	upport - Technical and consultative support when rice packs, hot-fixes, and more.

Step 5: After the MySQL database server is successfully installed, the Wizard Completed page will be displayed indicating that the MySQL database server installation is successful, as shown in the following figure. Uncheck **Launch the MySQL Instance Configuration Wizard**, and then click **Finish** to finish the installation.



3. RG-SNC Installation

3.1 Installing the System

Step 1: Confirm the following factors before the installation.

- 8088(TCP) WEB HTTP access port
- 8089(TCP) WEB HTTPS access port
- 69(UDP) TFTP SERVER listening port
- 162(UDP) TRAP SERVER listening port
- 3307(TCP) MYSQL listening port

Confirm that the above ports are not occupied by other programs. If the network firewall has been installed in the OS, enable these ports so that the RG-SNC system can be started successfully.

Step 2: Double click the RG-SNC setup program on the CD-ROM to start installing the RG-SNC system, as shown in the following figure. Click **Next**.

🚯 RG-SNC Smart Network Commander Setup				
RG-SNC Smart Network Co	Weicome to the RG-SNC Smart Network Commander Setup Wizard This wizard will guide you through the installation of RG-SNC Smart Network Commander. It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer. Click Next to continue.			
	Next > Cancel			

Step 3: The RG-SNC User License Agreement page is displayed, as shown in the following figure. Please thoroughly read the license agreement. To install and use the RG-SNC software, you must accept this license agreement. Click **Next**.

🚯 RG-SNC Smart Network Commander Setup						
License Agreement Please review the license terms before installing RG-SNC Smart Network Commander.						
Press Page Down to see the rest of the agreement.						
RG-SNC End User Software License Agreement						
License: Fujian Star-net Ruijie, Inc., and the right to use this software program granted to you. However, you must provide the Company to make the following assurance: are not outside the provisions of the provisions of this 💌						
If you accept the terms of the agreement, select the first option below. You must accept the agreement to install RG-SNC Smart Network Commander. Click Next to continue.						
 I accept the terms of the License Agreement I do not accept the terms of the License Agreement 						
RG-SNC Smart Network Commander V2.30						
< <u>Back</u> <u>Next</u> Cancel						

Step 4: The page for selecting the installation directory of the RG-SNC is displayed, as shown in the following figure. The default installation directory is "System drive:\Program Files\Ruijie". Click **Browse...** to change the installation directory of the RG-SNC. After selecting the installation directory, click **Next**.

Note: It is not recommended that you install the RG-SNC in the same disk partition as the MySQL database server. Please select a different disk partition.

🚯 RG-SNC Smart Network Commander Setup
Choose Install Location Choose the folder in which to install RG-SNC Smart Network Commander.
Setup will install RG-SNC Smart Network Commander in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.
Destination Folder
Space required: 2.0GB Space available: 28.9GB
RG-SNC Smart Network Commander V2.30 < Back

Step 5: The TFTP server address page is displayed, as shown in the following figure. You can modify the TFTP server address, which must be the IP address of the local machine. Click **Next** after completing the modification. Note: the TFTP server address is used during device software distribution and device configuration backup or restoration. After the RG-SNC system is successfully started, you must confirm that the device can access the TFTP server configured here via TFTP. To confirm it, you need to enter the privileged EXEC mode, and input the following commands:

Ruijie# copy flash:config.text tftp://192.168.203.40/config.text Accessing flash:config.text... Success: Transmission success,file length 2038

RG-SNC Smart Network Commander Setup	
TFTP Server IP	
Please select the TFTP server IP.	•
Please input TFTP Server IP	
IP: 40.1.1.107	
RC CNC Count Mahuruh Commondon US 20	
Karbine binare wetwork commander V2,30	the formula
< <u>B</u> ack <u>N</u> e:	(Cancel

Step 6: The page for selecting the installation directory of the MySQL database server is displayed, as shown in the following figure. Click **Browse...** to specify the installation directory of the MySQL database server. Select the installation directory specified during the installation of the MySQL database server as described in Chapter 3, and then click **Next**.

RG-SNC Smart Network Commander Setup	
Please select an installation directory for MySQL 5.5. Please select an installation directory for MySQL. Only MySQL 5.5 is supported now.	\bigcirc
Please select the MySQL database installation folder	
C:\Program Files\MySQL\MySQL Server 5.5\	
RG-SNC Smart Network Commander V2.30	ancel

Step 7: The installation configuration is completed, as shown in the following figure. Choose the program shortcut name in the **Start** menu, and then click **Install** to start installing the RG-SNC.

🚯 RG-SNC Smart Network Commander Setup 📃 🖂 🖂
Installing Please wait while RG-SNC Smart Network Commander is being installed.
Extract: AntTypeDefinition.html 100%
Extract: overview-frame.html 100% Extract: overview-summary.html 100% Extract: overview-tree.html 100% Extract: package-list 100% Extract: serialized-form.html 100% Extract: stylesheet.css 100% Output folder: C:\Ruijie\ant\apache-ant-1.8.4\manual\api\org Output folder: C:\Ruijie\ant\apache-ant-1.8.4\manual\api\org\apache Output folder: C:\Ruijie\ant\apache-ant-1.8.4\manual\api\org\apache Output folder: C:\Ruijie\ant\apache-ant-1.8.4\manual\api\org\apache\tools Output folder: C:\Ruijie\ant\apache-ant-1.8.4\manual\api\org\apache\tools Output folder: C:\Ruijie\ant\apache-ant-1.8.4\manual\api\org\apache\tools Output folder: C:\Ruijie\ant\apache-ant-1.8.4\manual\api\org\apache\tools Output folder: C:\Ruijie\ant\apache-ant-1.8.4\manual\api\org\apache\tools Output folder: C:\Ruijie\ant\apache-ant-1.8.4\manual\api\org\apache\tools Output folder: C:\Ruijie\ant\apache-ant-1.8.4\manual\api\org\apache\tools\ant Extract: AntClassLoader.html 100%
RG-SNC Smart Network Commander V2.30

Step 8: Click **Close** after the RG-SNC is successfully installed.

💿 RG-SNC Smart Network Commander Setup	
Installation Complete Setup was completed successfully.	\bigcirc
Completed	
Remove folder: C:\Ruijie\jdk64\jre\ Remove folder: C:\Ruijie\jdk64\ Execute: "C:\Ruijie\drivers\MicroDogInstdrv.exe" /s/r Execute: "C:\Ruijie\drivers\MicroDogInstdrv.exe" /s/u/i/r Output folder: C:\Ruijie Created uninstaller: C:\Ruijie\uninstall.exe Output folder: C:\Documents and Settings\Administrator\S Create shortcut: C:\Documents and Settings\Administrator Create shortcut: C:\Documents and Settings\Administrator	tart Menu\Programs\Ruijie \Start Menu\Programs\Ruij \Desktop\RG-SNC Smart N \Start Menu\Programs\Ruijie Networks'
RG-SNC Smart Network Commander V2,30	Cancel

3.2 Starting RG-SNC Service

Note: Insert the dongle before startup.

Step 1: Visit <u>http://sncip:8989/ssm</u> (*sncip*: the IP address of the RG-SNC server) on any client accessible to the RG-SNC server, or click the shortcut menu of "RG-SNC Smart Network Commander" on the SNC server desktop to enable SSM, and then click **Start** under **Web Service** on the home page, as shown in the following figure.

🕘 Ruijie Software Service Manager									
SSM						👤 localhost	About		
	Node 2 (Active) IP: 40.1.1.107			Basics	CPU&Memory	Disk		NIC	
Home	Database Service	🔮 Running	Web Service	Stopped					
۰.	©Restart ■Stop	1 Log Collect	▶Start ©Restart ∎Stop	🗏 Log Collect					
Settings About Server									
*	Name : RUIJIE-188C3E93			I	DS : Windows 2003 32-bit				
Integration	SN: B4C2845E3C8B7A01BC0D980FBBB557E1								
	CPU: 2-core Core(TM)2 Duo CPU E7500 @ 2.93GHz , 2.93GHz								
1 License	Memory : RAM2.93G SWAP3.34G								

Step 2: After the RG-SNC Web Server is started, the "Running" status will be displayed on the Service Manager page.

🖉 Ruijie Soft	ware Service Manager							
SSM						👤 localhost	About	
	Node 2 (Active) IP: 40.1.1.107			Basics	CPU&Memory	Disk		NIC
Home	Database Service	🕑 Running	Web Service	🕑 Running				
\$	©Restart ∎Stop	1 Log Collect	©Restart ■Stop	1 Log Collect				
Settings About Server								
× 1	Name: RUIJIE-1B8C3E93 OS: Windows 2003 32-bit Integration SN: B4C2845E3C8B7A01BC0D980FBBB557E1 OS: Windows 2003 32-bit							
Integration								
a	CPU: 2-core Core(TM)2 Duo CPU E7500 @ 2.93GHz , 2.93GHz							
	Memory: RAM2.93G SWAP3.34G							
License	SNC-Pro-License : 515(EG components included 5 Unit (10 more devices allowed including Wireless Component))							
	EG-License : 5							
	SNC-WLAN-License	: 2000						

After successfully starting the RG-SNC Web server, you can log in to the RG-SNC to perform management operations.

To log in to the RG-SNC system, please go to <u>http://localhost:8088/snc/login.seam</u>. The default user and password are admin.