RIIL IT Business Management

Ver. 6.2.0

Installation Guide

Ruijie Networks Co., Ltd.

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1 Foreword

Thank you for using RIIL IT Business Management (hereinafter referred to as RIIL) from Ruijie Networks. To familiarize you with operations quickly, we prepare a detailed installation guide and attach electronic documents to the installation CD-ROM.

The user manual features complete contents and easy understanding, allowing you to know the installation environment, basic operations, software usage, and precautions. It also guides you through how to use software functions to meet your requirements.

Before you install and use the software for the first time, read all the materials attached to the installation CD-ROM carefully so that you will use RIIL more effectively.

To make the RG-RIIL-BMC software better meet your requirements, we may make some software modifications on an irregular basis, which may result in difference between the actual software functions and the functions described in the installation guide. Ruijie Networks shall not take responsibility for the difference and we are sorry for the inconvenience. We will update any software modification on the website of Ruijie Networks in a timely manner. Please visit our website or call our customer service hotline to obtain the latest software information.

Your feedback on this installation guide is much appreciated.

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2 Preparing for Installation

Before installing RIIL on your server, make sure the server meets the system requirements outlined below.

2.1 Required Hardware/Software

Required Hardware	
CPU	2 x Intel Xeon E5606
Memory	8 GB
Hard Disk Space	500 GB
Required Software	
Operating System	Windows Server 2008 R2 or Windows 2003 Server with Service Pack 2 64- bit
Client	Internet Explorer 8
Flash Player	Flash Player 11.2 or later
Network Bandwidth	100 Mbit/s or higher

2.2 Required Server Environment

- 1. Ensure that MySQL is not installed on the server. Uninstall it if so.
- 2. Ensure that the Java Development Kit (JDK) or Java Runtime Environment (JRE) is not installed on the server. Uninstall it if so. Remove the JAVA_HOME environment variable if it exists. After you complete the preceding operations, restart your computer and then install RIIL.
- 3. Ensure that Internet Explorer 7.0 or later is installed on the server. Upgrade the Internet Explorer version if it is earlier than 7.0.
- 4. Install Flash Player 11.2 or later for IE before you install RIIL. Ruijie recommends you download Adobe Flash Player from http://www.adobe.com/.
- 5. Ruijie recommends you install RIIL in any partition other than the system partition. Ensure that the installation path does not contain any space, Chinese character, or special character. Create an installation directory before installation. For example, you can create a directory named **Ruijie** in the root directory of local disk D. The following describes how to install RIIL in **D:\Ruijie\RIIL**.

3 Installing RIIL IT Business Management

Quick installation tip: The installation procedure is optimized in the installation program. You can click **Next** in each step after accepting the Software License Agreement until the installation is completed.

3.1 Running Installation Program

The installation program requires setup of Windows services. When you run the installation program in a system enabled with User Account Control (UAC), right-click **RIIL_Enterprise_Setup.exe**, choose **Run** as administrator, and click **Yes** in the **UAC(User Account Control)** dialog box displayed.

It is recommended that you close all other applications before you start installation.



Figure 3-1

3.2 Accepting License Agreement

🚥 RIIL Installation Wizard				
License Agreement Please review the license terms before installing RIIL 6.2.				
Press Page Down to see the rest of the agreement.				
Software License Agreement				
Welcome to download, install, and use the RIIL software of Ruijie				
Networks Co., Ltd (hereinafter referred to briefly as Ruijie Networks).				
Once you have downloaded, copied, installed, or used the RIIL software 🚽				
If you accept the terms of the agreement, select the first option below. You must accept the agreement to install RIIL 6.2. Click Next to continue.				
I accept the terms of the License Agreement				
Ruijie Networks Co., Ltd				
< Back Next > Cancel				

Figure 3-2

Click **I accept the terms of the License Agreement** and **Next** in the **License Agreement** dialog box to continue.

3.3 Choosing Installation Components

RIL Installation Wizard			
Choose Components Choose which features of RIIL 6.2 you want to install.			
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.			
Select the type of install:	Typical		
	Description		
Space required: 1.6GB	Position your mouse over a component to see its description.		
Ruijie Networks Co., Ltd			
	< Back Next > Cancel		

Figure 3-3

By default, all components in the **typical** installation of the RIIL Enterprise Edition are selected to ensure that RIIL runs with optimal functions. Click **Next** in the **Choose Components** dialog box to continue.

Types of installation:

Typical: Install all functions of RIIL.

RIIL Product DB: Install MySQL only.

RIIL Portal Server: Install Portal, CCS, RCS, and Discovery Server.

RIIL DCS: Install DCS and RCS.

RIIL NTA Server: Install NTA Server.

RIIL Logger Server: Install Logger Server.

Custom: You can choose the components you want to install.

3.4 Choosing Installation Path

RIL Installation Wizard	
Choose Install Location Choose the folder in which to install RIIL 6.2.	RAL
Setup will install RIIL 6.2 in the following folder. To install in a differe and select another folder. Click Next to continue.	nt folder, dick Browse
Destination Folder E:\RuiJie\RIIL	Browse
Space required: 1.6GB Space available: 9.4GB	
Ruijie Networks Co., Ltd ———————————————————————————————————	lext > Cancel

Figure 3-4

Install RIIL in a disk with large free space (more than 40 GB) and ensure that the installation path does not contain spaces. The installation program automatically selects the disk with the largest free space and uses the default installation path as the optimal working directory structure. You are advised not to modify these default settings.

Note: Ruijie recommends you not install RIIL in the root directory of a disk, which may bring inconvenience to your maintenance of directory structure.

3.5 Creating Start Menu

🔤 RIIL Installation Wizard
Choose Start Menu Folder Choose a Start Menu folder for the RIIL 6.2 shortcuts.
Select the Start Menu folder in which you would like to create the program's shortcuts. You can also enter a name to create a new folder.
Microsoft SQL Server 2008 Microsoft Sync Framework Microsoft Visual Studio 2005 Mihov NSIS Helper Mindjet MindManager 2012 My application MySQL Node.js (x86) NSIS Oracle - OraDb10g_home1 PDF-XChange 3
Do not create shortcuts Ruijie Networks Co., Ltd Kancel Cancel Cancel

Figure 3-5

To facilitate the administrator in starting and stopping the RIIL program, you are advised to create shortcuts in the Start Menu based on the default setting.

3.6 Configuring Account Information of Local Computer

🔤 RIIL Installation Wizar	d		- - x
Configure RIIL Softwa Configure local compute	are Program er account information		RAL
Before continu the local comp	uing the installation, enter the admin uter and corresponding password.	iistrator account of	
Domain:			
User Name:	administrator		
Password:			
Ruijie Networks Co., Ltd —	< <u>B</u> ack	Next >	Cancel

Figure 3-6

Enter the administrator account and password of the server on which RIIL will run in the User Name and **Password** text boxes of the **Configure RIIL Software Program** window because Windows services require user **administrator** to enable some RIIL functions.

Enter "." in the **Domain** text box if the local computer is not added to any domain.

3.7 Configuring Database

RIL Installation Wizard	
RIIL Database Configuration Configure database connection informatio	n RAL
Database Server:	MySQL 👻
IP Address of the Database Server:	172.16.13.49
Database Port:	3306
Database Name:	riil_product
Database User Name:	ril
Database Password:	•••••
🔽 Checked to initialize the database	
Checked to install MySQL	
Ruijie Networks Co., Ltd ——————————	< Back Next > Cancel

Figure 3-7

The installation program uses the default IP address of your server as the IP address of the server on which the database will be installed.

The database port uses the default port specified by the installation program and does not need to be changed in normal conditions. Click **Next** to continue.

The database is initialized only if you check the Checked to initialize the database check box.

MySQL is installed only if you check the **Checked to install MySQL** check box. You need to specify information in the **Database Server** drop-down list, **IP Address of the Database Server** text box, **Database User Name** text box, and **Database Password** text box. Database connection is tested when you click **Next**.

Note: When you click **Next**, the installation program automatically detects the status of port 3306 if you choose to install the Product DB component. If the following message is displayed, it is likely that MySQL has been installed on your computer or port 3306 cannot provide services for RIIL.



Figure 3-8

To continue installation, change the default port number of the database or remove MySQL from your computer.

3.8 Configuring NTA Server

The **RIIL NTA database Configuration** dialog box is displayed only if you select **RIIL NTA Server** in the **Choose Components** dialog box.

RIIL Installation Wizard		
RIIL NTA database Configuration RIIL NTA database Configuration		RAL
Database server:	MySQL 👻	
IP Address of the Database Server:	172.16.13.49	
Database Port:	3306	
Database name:	riil_nta	
Database username:	riil	
Database password:	•••••	
📝 Checked to initialize the database		
Ruijie Networks Co., Ltd	< Back Nevt >	Cancel
	Next >	Cancer

Figure 3-9

3.9 Configuring RIIL Server

🔤 RIIL Installation Wizard	
RIIL Server Configuration Configure Server information	RAL
IP Address:	172. 16. 13. 49
	Advanced Settings
Ruijie Networks Co., Ltd ————	< Back Next > Cancel

Figure 3-10

The **RIIL Server Configuration** dialog box displays the configuration items that are most likely to be modified by users, for example, IP address of the server (which may need to be changed if two network interface cards are installed). Click **Next** if you do not need to change the IP address of the server.

Note: Default access ports must be configured for components to allow RIIL to run normally. If a message indicating port conflict is displayed, the installation program guides you to the corresponding advanced setting, in which you can change the port number.



Figure 3-11

🔤 RIIL Installation Wizard	
RIIL Portal Server Configuration Advanced RIIL Portal Server Settings	
RIIL Portal Server Application Server Port: 80 Initial JVM Memory: 512 Maximum Memory: 1024	
RIIL CCS Server Push Port: 18003 Port: 18002 Data Buffer Interface: 18700 Initial JVM Memory: 512 Maximum Memory: 1024	
RIIL Discovery Server Port: 18001 Initial JVM Memory: 512 Maximum Memory: 1024 RIIL RCS Port: 18004	
Ruijie Networks Co., Ltd	

Figure 3-12

Note: You are advised to set the application server port number of the RIIL Portal Server to 80 to allow the client to access RIIL.

3.10 Advanced Server Settings

3.10.1 Configuring RIIL Portal Server

🔤 RIIL Installation Wizard
RIIL Portal Server Configuration Advanced RIIL Portal Server Settings
RIIL Portal Server Application Server Port: 80 Port: 18006 Initial JVM Memory: 512 Maximum Memory: 1024
RIIL CCS Server Push Port: 18003 Port: 18002 Data Buffer Interface: 18700 Initial JVM Memory: 512 Maximum Memory: 1024
RIIL Discovery Server Port: 18001 Initial JVM Memory: 512 Maximum Memory: 1024 RIIL RCS Port: 18004
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Figure 3-13

3.10.2 Configuring RIIL DCS

🔤 RIIL Installatio	on Wizard				x
RIIL DCS Con Advanced RIIL	figuration DCS Settings			R	T
RIIL CCS IP Address:	172.16.13.49 P	ort: 18002	Data Buffer Port:	18700	
RIIL DCS RIIL DCS ID: Database Po Initial JVM Me	DCS_172.16.13.49 rt: 18306 emory: 512	_39	Displayed Name: Port: Maximum Memory:	DCS_172.16.1 18008 1024	3.4
RIIL RCS Port: 1800	4				
Ruijie Networks Co	o., Ltd		< Back Next	> Ca	incel

Figure 3-14

3.10.3 Configuring RIIL Logger Server

RIL Installation Wizard			
RIIL Logger Server Conf Advanced RIIL Logger Serv	iguration /er Settings		RAL
RIIL CCS IP Address: 172.16.13 Data Buffer Port: 1870	.49 Port: 0	18002	
RIIL Logger Server Port: 18005 St Initial JVM Memory: 51	ysLog Port: 514 12	SNMP Trap Port: 1 Maximum Memory: 1	62 024
Ruijie Networks Co., Ltd ——		Back Next >	Cancel

Figure 3-15

3.10.4 Configuring RIIL NTA Server

RIL Installation Wizard	
RIIL NTA Server Configuration Advanced RIIL NTA Server Setting	s
RIIL CCS IP Address: 172.16.13.49 Data Buffer Port: 18700	Port: 18002
RIIL NTA Server Service Port: 18007 Initial JVM Memory: 512	Collection Port: 2055 Maximum Memory: 1024
Ruijie Networks Co., Ltd ————	< Back Next > Cancel

Figure 3-16

3.11 Starting Installation

Before installing RIIL, the installation program lists the components you have selected and the corresponding configurations in the **Start to Install the RIIL** dialog box. You can check whether the installation contents are correct and click **Install** to start installing RIIL or **Back** to modify installation configurations.

🔤 RIIL Installation Wizard
Start to Install the RIIL Going to Start RIIL Installation
Going to start RIIL installation. Please confirm the installation content and then click the Install button.
Installation path: E:\RuiJie\RIIL
Installation content
RIIL Product DB : dbtype:mysql,ip:127.0.0.1,port:3306,user:riil,pwd:*******
RIIL Portal Server : IP:172.16.13.49, Web Port:80
RIIL DCS(Data collection service component) : IP: 172. 16. 13. 49, Port: 18008, DB_Port: 18306
4 III >
Ruijie Networks Co., Ltd

Figure 3-17

3.12 Installation Procedure

Click **Install** and wait for the installation to finish.

RIL Installation Wizard	
Installing Please wait while RIIL 6.2 is being installed.	RAL
Copy to E:\RuiJie\RIIL\RIIL_CCS\workspace\resmodel	
Extract: wrapper.conf 100% Output folder: E: \RuiJie \RIIL \RIIL_CCS \workspace Output folder: E: \RuiJie \RIIL \RIIL_CCS \workspace \logs Output folder: E: \RuiJie \RIIL \RIIL_CCS \workspace \logs \wrap Extract: wrapper.log Output folder: E: \RuiJie \RIIL \RIIL_CCS \workspace \plugins Extract: riil.mserver.plugins.business-6.2.0-SNAPSHOT.jar Output folder: E: \RuiJie \RIIL \RIIL_CCS Create folder: E: \RuiJie \RIIL \RIIL_CCS \workspace \resmodel Copy to E: \RuiJie \RIIL \RIIL_CCS \workspace \resmodel	oper
Ruijie Networks Co., Ltd	Next > Cancel

Figure 3-18

3.13 Completing Installation



Figure 3-19

This dialog box is displayed when the installation is completed. Click **Finish** to exit the RIIL Installation Wizard.

3.14 Generating Machine Code

Go to Start -> All Programs -> RIIL -> RIIL_Tools.

RIIL product tool		
System Information		License validate Generate Machine Code Activa
Server Performance		
📙 License Information	Module Function Description	ion Expiry Time Quant
Database Information	RG-RITL6.X-WIN platform of the enterprise edit	
	RG-RILL6,X-DCS distributed collection componen	
E Log Information	RG-RILLO, A-DOMAIN RG-RILLO, A-DOMAIN RG-RILLO, A-DOMAIN RG-RILLO, A-DOMAIN RG-RILLO, A-DOMAIN	
Modify Server Configuration	RG-RILLO, X-IMC Hetwork device qualitity D.C	
🗟 Data Backup	RG-RILLO X-BMC-Juic business service manager	
	RG-RIII 6 X-BMC-LIC-OS one bost monitoring	
	RG-RII 6.X-BMC-LIC-Stor	
Foolbox	RG-RIIL6.X-Log log monitoring component	
	IF RG-RIL6.X-Script script monitoring component	
MIB Browser		
👰 <u>SNMP Test</u>	TRIL 6.X-Mobile-iPad mobile terminal	
🕎 <u>Telnet Tool</u>	RG-RIIL6.X-NTA-Suit traffic analysis component	
SSH Tool		
T 00111001	RG-RIIL6.X-IEMC-Suit computer room monitorin	
	RG-RIIL6.X-IEMC-LIC-jfsl number of computer r	
	G-RIIL6.X-IEMC-LIC-TEM temperature and hu	
	RG-RIIL6.X-IEMC-LIC-POWER power monitorin	
	RG-RIIL6.X-IEMC-LIC-Litcon	
	RG-RIIL6.X-IEMC-LIC-Batt	
	•	Þ

Figure 3-20

Click Generate Machine Code.



Figure 3-21

Send the generated machine code to Ruijie Networks.

3.15 Replacing License

Method 1:

Go to Start -> All Programs -> RIIL -> RIIL_Tools.

RIIL product tool			-	-			X
System Information	*				License Check	Obtain serial number	Activate
License Information		Module		Function Description		Expiry Time	Quantity
Database Information							
Log Information							
Modify Server Configuration							
рата <u>Васкир</u>							
Taalhay	*						
	^						
SNMP Test							
w Telnet Tool							
SSH Tool							
	-						
		•		m			•

Figure 3-22

Click Activate. In the displayed dialog box, click Select to select the License.lc file.

	Select
ОК	Cancel
	ОК

Figure 3-23

Click **OK** to activate RIIL.

When RIIL is activated successfully, the following information is displayed.

rstem Information			License Check Obtai	n serial number	Activat
Server Performance	Module	Function Description	Ex	piry Time	Quanti
Database Information	▶ RG-RIIL6.X-WIN 企业版平台				
Log Information	▶ RG-RIIL6.X-DCS 分布式采集组件				
Modify Server Configuration	RG-RIIL6.X-Domain				
Deta Beakun	▶ RG-RIIL6.x-IMC 网络设备数量				
Data Backup	▶ RG-RIIL6.X-BMC-Suit 业务服务管理组件				
	▶ RG-RIIL6.X-BMC-LIC1节点应用监控				
olbox 🌣	▶ RG-RIIL6.X-BMC-LIC-OS1节点主机监控				
MIB Browser	▶ RG-RIIL6.X-BMC-LIC-Stor				
Shill Direct	▶ RG-RIIL6.X-Log 日志监控组件				
Sivine rest	▶ RG-RILL6.X-Script 脚本监控组件				
<u>Telnet Tool</u>	▶ KILL b.X-Mobile 移动脉测强性 DTL 6 X Mobile 移动脉测强性				
<u>SSH Tool</u>	DC DTIL6 V NTA Suit 在目公共组体				
	PG_PTIL6 V_NTA_LIC 法最公诉节占物最				
	▶ RG_RTI 6 X_TEMC_Suit 和 卑贱 拉细州				
	▶ RG-RIIL6 X-IEMC-UC-Num 机定数量				
	▶ RG-RIIL6.X-IEMC-LIC-TEM 温湿度监控				
	▶ RG-RIIL6.X-IEMC-LIC-UPS UPS监控				
	▶ RG-RIIL6.X-IEMC-LIC-SMOKE 烟感监控				
	▶ RG-RIIL6.X-IEMC-LIC-LEAK 水浸监控				
	▶ RG-RIIL6.X-IEMC-LIC-AIRCON 普通空调				
	▶ RG-RIIL6.X-IEMC-LIC-PREAIRCON 精密空诉				
	▶ RG-RIIL6.X-IEMC-LIC-POWER 电量监控				
	▶ RG-RIIL6.X-IEMC-LIC-FAS 智能新风系统				

Figure 3-24

Method 2:

Replace the license.lc file for the existing files in the following directories:

RIIL installation directory\RIIL_Discovery_Server\conf\license.lc

 $RIIL\ installation\ directory \ RIIL_Log_Server \ conf \ license.lc$

RIIL installation directory\RIIL_CCS\conf\license.lc

RIIL installation directory\RIIL_DCS\conf\license.lc

 $RIIL\ installation\ directory \ RIIL_NTA_Server \ conf \ license.lc$

 $RIIL\ installation\ directory \ RIIL_Portal_Server \ conf \ license.lc$

4 Distributed Deployment Solution 1

Requirements

Server 1: The database installation program comes with the MySQL database.

Server 2: PORTAL+CCS+Discovery+RCS

Server 3: DCS+RCS

Server 4: NTA+LOG

Implementation

Installation type of server 1: RIIL Product DB

In the **Choose Components** dialog box, select **RIIL Product DB** from the **Select the type of install** drop-down list and click **Next**.

RIIL Installation Wizard	
Choose Components Choose which features of RIII	. 6.2 you want to install.
Check the components you wa install. Click Next to continue.	ant to install and uncheck the components you don't want to
Select the type of install:	RIIL Product DB
	Description
Space required: 446.8MB	Position your mouse over a component to see its description.
Ruijie Networks Co., Ltd	
	< Back Next > Cancel

Figure 4-1

RIL Installation Wizard	
RIIL Database Configuration Configure database connection informatio	n RAL
Database Server:	MySQL 👻
IP Address of the Database Server:	172.16.13.49
Database Port:	3306
Database Name:	riil_product
Database User Name:	riil
Database Password:	•••••
Checked to initialize the database	
Checked to install MySQL	
Ruijie Networks Co., Ltd ——————————	< Back Next > Cancel

Figure 4-2

You do not need to change the settings in the **RIIL Database Configuration** dialog box and **RIIL Server Configuration** dialog box. Click **Next** until the **Start to Install the RIIL** dialog box is displayed and click **Install**.

🔤 RIIL Installation Wizard		x
Start to Install the RIIL Going to Start RIIL Installation	RI	L
Going to start RIIL installation. Please confirm the installation content and then click the Install button. Installation path: E:\RuiJie\RIIL		
Installation content RIIL Product DB : dbtype:mysql,ip:127.0.0.1,port:3306,user:riil,pwd:**	******	
< [•	
Ruijie Networks Co., Ltd	Cano	cel

Figure 4-3

Installation type of server 2: RIIL Portal Server

Select **RIIL Portal Server** from the **Select the type of install** drop-down list of the **Choose Components** dialog box (the Portal, CCS, DIS, and RCS will be installed automatically).

RIL Installation Wizard	
Choose Components Choose which features of RIIL	5.2 you want to install.
Check the components you war install. Click Next to continue.	at to install and uncheck the components you don't want to
Select the type of install:	RIIL Portal Server 🔹
	Description
Space required: 1.5GB	Position your mouse over a component to see its description,
Ruijie Networks Co., Ltd ———	
	< Back Next > Cancel

Figure 4-4

Click Next until the RIIL Database Configuration dialog box is displayed.

RIIL Installation Wizard	
RIIL Database Configuration Configure database connection information	on Rat
Database Server:	MySQL
IP Address of the Database Server:	172.16.36.104
Database Port:	3306
Database Name:	riil_product
Database User Name:	riil
Database Password:	•••••
📝 Checked to initialize the database	
Checked to install MySQL	
Ruijie Networks Co., Ltd —————	< Back Next > Cancel

Figure 4-5

In the **RIIL Database Configuration** dialog box, enter the IP address of server 1 in the **IP Address of the Database Server** text box and click **Next** (the installation program will test the database connection). The **RIIL Server Configuration** dialog box is displayed when the database connection passes the test.

RIL Installation Wizard	
RIIL Server Configuration Configure Server information	RAL
IP Address:	172.16.13.49
	Advanced Settings
Ruijie Networks Co., Ltd ————	< Back Next > Cancel

Figure 4-6

Click Next.

🚥 RIIL Installation Wizard	
Start to Install the RIIL Going to Start RIIL Installation	
Going to start RIIL installation. Please confirm the installation content and then click the Install button. Installation path: E:\RuiJie\RIIL	
Installation content RIIL Portal Server : IP: 172. 16. 13. 49, Web Port: 80 RIIL Discovery Server(Discovery service component) : IP: 172. 16. 13. 49, Port: 18001	
Ruijie Networks Co., Ltd]

Figure 4-7

Installation type of server 3: DCS

Select **RIIL DCS** from the **Select the type of install** drop-down list of the **Choose Components** dialog box (the DCS and RCS will be installed by default).

RIL Installation Wizard			
Choose Components Choose which features of RIIL	5.2 you want to install.		
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.			
Select the type of install:	RIIL DCS 👻		
	Description		
Space required: 285.6MB	Position your mouse over a component to see its description,		
Ruijie Networks Co., Ltd			
	< <u>B</u> ack <u>N</u> ext > Cancel		

Figure 4-8

Click Next until the RIIL Server Configuration dialog box is displayed.

RIL Installation Wizard	
RIIL Server Configuration Configure Server information	RAL
IP Address: RIIL CCS IP Address:	172.16.13.49 172.16.13.49
	Advanced Settings
Ruijie Networks Co., Ltd ———	< <u>B</u> ack <u>N</u> ext > Cancel



Enter the IP address of server 2 in the **RIIL CCS IP Address** text box of the **RIIL Server Configuration** dialog box. (If the port number of server 2 is changed when server 2 is installed, click **Advanced Settings**

and change the value in the **Port** text box enclosed by a red rectangle in the **RIIL DCS Configuration** dialog box.)

📾 RIIL Installation Wizard	
RIIL DCS Configuration Advanced RIIL DCS Settings	RAL
RIIL CCS IP Address: 172.16.13.49 Port: 18002 Data Buffer Port: 18	700
RIIL DCS RIIL DCS ID: DCS_172.16.13.49_88 Database Port: 18306 Initial JVM Memory: 512	_172.16.13.4)8
RIIL RCS Port: 18004	
Ruijie Networks Co., Ltd	Cancel

Figure 4-10

Click Next. The Start to Install the RIIL dialog box is displayed.

RIL Installation Wizard		- - ×
Start to Install the RIIL Going to Start RIIL Installation		RAL
Going to start RIIL installation. P then click the Install button. Installation path: E:\RuiJie	lease confirm the installation content and e\RIIL	
Installation content RIIL DCS(Data collection servi IP: 172. 16	ce component) : . 13.49, Port: 18008	*
4		÷
Ruijie Networks Co., Ltd ————	< <u>B</u> ack Install	Cancel

Figure 4-11

Installation type of server 4: Custom

In the Choose Components dialog box, select Custom from the Select the type of install drop-down list and select RIIL Logger Server(Log analysis component) and RIIL NTA Server(Traffic analysis component).

RIL Installation Wizard				
Choose Components Choose which features of RIIL 6	5.2 you want to install.			
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.				
Select the type of install:	Custom			
Or, select the optional components you wish to install:	RIIL DCS(Data collection service component) RIIL Discovery Server(Discovery service com RIIL RCS RIIL Logger Server(Log analysis component) RIIL NTA Server(Traffic analysis component)			
	4 III >			
Space required: 266.2MB	Description Position your mouse over a component to see its description,			
Ruijie Networks Co., Ltd				
	< <u>B</u> ack Next > Cancel			

Figure 4-12

Click Next until the RIIL Database Configuration dialog box is displayed.

RIIL Installation Wizard	l	_ D X
RIIL Database Configuration Configure database connection informati	ion	RAL
Database Server:	MySQL	
IP Address of the Database Server:	172.16.13.49	
Database Port:	3306	
Database Name:	riil_product	
Database User Name:	riil	
Database Password:	•••••	
Checked to initialize the database		
Checked to install MySQL		
Ruijie Networks Co., Ltd —————	< Back Next >	Cancel

Figure 4-13

In the **RIIL Database Configuration** dialog box, enter the IP address of server 1 in the **IP Address of the Database Server** text box and click **Next** (the installation program will test the database connection). The **RIIL NTA database Configuration** dialog box is displayed when the database connection passes the test.

RIIL Installation Wizard		
RIIL NTA database Configuration RIIL NTA database Configuration		RAL
Database server:	MySQL 🔻	
IP Address of the Database Server:	172.16.13.49	
Database Port:	3306	
Database name:	riil_nta	
Database username:	riil	
Database password:	•••••	
Checked to initialize the database		
Ruijie Networks Co., Ltd		
	< Back Next >	Cancel

Figure 4-14

Check the **Checked to initialize the database** check box. The installation program will automatically initialize the NTA database.

Note: Click **Next** if server 1 uses the database provided by the installation program. If server 1 does not use the database provided by the installation program, perform necessary database configuration. For example, create the riil_nta database and user **riil**.

After the configuration is completed, click **Next** until the **RIIL Server Configuration** dialog box is displayed.

RIL Installation Wizard	
RIIL Server Configuration Configure Server information	RAL
IP Address: RIIL CCS IP Address:	172.16.13.49 172.16.13.49
	Advanced Settings
Ruijie Networks Co Ltd	
	< <u>B</u> ack <u>N</u> ext > Cancel

Figure 4-15

Enter the IP address of server 2 in the **RIIL CCS IP Address** text box of the **RIIL Server Configuration** dialog box. (If the port number of server 2 is changed when server 2 is installed, change the corresponding port numbers by clicking **Advanced Settings**, as shown in the following figures.)

🔤 RIIL Installation Wizard	
RIIL Logger Server Configuration Advanced RIIL Logger Server Settings	ZAL
RIIL CCS IP Address: 172.16.13.49 Data Buffer Port: 18700	
RIIL Logger Server Port: 18005 SysLog Port: 514 SNMP Trap Port: 162 Initial JVM Memory: 512 Maximum Memory: 1024	
Ruijie Networks Co., Ltd	Cancel

Figure 4-16

RIL Installation W	Vizard Configuration A Server Settings		RAL
RIIL CCS IP Address: Data Buffer Port	172.16.13.49 t: 18700	Port:	18002
RIIL NTA Server Service Port: Initial JVM Memo	18007 ry: 512	Collection Port: Maximum Memory:	2055 1024
Ruijie Networks Co., L	td	< Back	Next > Cancel

Figure 4-17

Click Next. The Start to Install the RIIL dialog box is displayed.

RIIL Installation Wizard	
Start to Install the RIIL Going to Start RIIL Installation	RAL
Going to start RIIL installation. Please confirm the installation content and then click the Install button. Installation path: E:\RuiJie\RIIL	
Installation content RIIL Logger Server(Log analysis component) : IP: 172. 16. 13. 49, Port: 18005 RIIL NTA Server(Traffic analysis component) : IP: 172. 16. 13. 49, Port: 18007	*
4	
Ruijie Networks Co., Ltd 	Cancel

Figure 4-18

After you confirm the installation contents, click Install to install RIIL.

5 Distributed Deployment Solution 2

Requirements

Server 1: Oracle database

The RIIL Portal service corresponding to user **riil_product** is used. The NTA service corresponding to user **riil_nta** is used.

Server 2: PORTAL+CCS+Discovery+RCS

Server 3: DCS+RCS

Server 4: NTA+LOG

Implementation

Server 1: Oracle database

Oracle installation precautions:

- The database instance must be installed using UTF-8.
- The red parts of the following database creation statement are determined by the installation path of the Oracle database. You can obtain details from the database administrator.
- The following database creation statement and user creation statement are only for your reference. The actual usage is based on project requirements and onsite cooperation with the database administrator.

-- User riil_product

create temporary tablespace riil_product_temp tempfile 'D:\oracle\product\10.2.0\oradata\orcl\riil_product_temp01.dbf' size 200m autoextend on next 50m maxsize unlimited extent management local;

create tablespace riil_product01 datafile **'D:\oracle\product\10.2.0\oradata\orcl**\riil_product01.dbf' size 1000M autoextend on next 1000M maxsize unlimited extent management local; create user riil_product identified by r4rfde32wsaq1 default tablespace riil_product01 temporary tablespace riil_product_temp; grant connect, resource, dba to riil_product;

-- User riil_NTA

create temporary tablespace riil_nta_temp tempfile 'D:\oracle\product\10.2.0\oradata\orcl\riil_nta_temp01.dbf' size 200m autoextend on next 50m maxsize unlimited extent management local;

create tablespace riil_nta01 datafile 'D:\oracle\product\10.2.0\oradata\orcl\riil_nta01.dbf' size 1000M autoextend on next 1000M maxsize unlimited extent management local;

create user riil_nta identified by r4rfde32wsaq1 default tablespace riil_nta01 temporary tablespace riil_nta_temp; grant connect, resource, dba to riil_nta;

Installation type of server 2: RIIL Portal Server

Select **RIIL Portal Server** from the **Select the type of install** drop-down list of the **Choose Components** dialog box (the Portal, CCS, DIS, and RCS will be installed automatically).

RIL Installation Wizard				
Choose Components Choose which features of RIIL 6.2 you want to install.				
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.				
Select the type of install:	RIIL Portal Server 🔹			
	Description			
Space required: 1.5GB	Position your mouse over a component to see its description,			
Ruijie Networks Co., Ltd ———				
	< Back Next > Cancel			

Figure 5-1

Click Next until the RIIL Database Configuration dialog box is displayed.

🔤 RIIL Installation Wizard			
RIIL Database Configuration Configure database connection information			
Database Server:	Oracle 10g/11i 🔹		
IP Address of the Database Server:	172.16.36.104		
Database Port:	1521		
Database instance:	ord		
Database User Name:	riil_product		
Database Password:	•••••		
Checked to initialize the database			
Ruijie Networks Co., Ltd —————	< Back Next > Cano	cel	

Figure 5-2

In the **RIIL Database Configuration** dialog box, enter the IP address of server 1 in the **IP Address of the Database Server** text box and click **Next** (the installation program will test the database connection). The **RIIL Server Configuration** dialog box is displayed when the database connection passes the test.

RIL Installation Wizard	
RIIL Server Configuration Configure Server information	RAL
IP Address:	172.16.13.49
	Advanced Settings
Ruijie Networks Co., Ltd ————	< Back Next > Cancel

Figure 5-3

Click Next.

RIIL Installation Wizard	x
Start to Install the RIIL Going to Start RIIL Installation	T
Going to start RIIL installation. Please confirm the installation content and then click the Install button. Installation path: E:\RuiJie\RIIL	
Installation content RIIL Portal Server : IP: 172. 16. 13. 49, Web Port: 80 RIIL Discovery Server (Discovery service component) : IP: 172. 16. 13. 49, Port: 18001	*
*	~
Ruijie Networks Co., Ltd	incel

Figure 5-4

Installation type of server 3: DCS

Select **RIIL DCS** from the **Select the type of install** drop-down list of the **Choose Components** dialog box (the DCS and RCS will be installed by default).

RIL Installation Wizard				
Choose Components Choose which features of RIIL 6.2 you want to install.				
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.				
Select the type of install:	RIIL DCS 🔹			
	Description			
Space required: 285.6MB	Position your mouse over a component to see its description,			
Ruijie Networks Co., Ltd				
	< <u>B</u> ack <u>N</u> ext > Cancel			

Figure 5-5

Click Next until the RIIL Server Configuration dialog box is displayed.

RIL Installation Wizard	
RIIL Server Configuration Configure Server information	RAL
IP Address: RIIL CCS IP Address:	172.16.13.49 172.16.13.49
	Advanced Settings
Ruijie Networks Co., Ltd ———	< <u>B</u> ack <u>N</u> ext > Cancel



Enter the IP address of server 2 in the **RIIL CCS IP Address** text box of the **RIIL Server Configuration** dialog box. (If the port number of server 2 is changed when server 2 is installed, click **Advanced Settings**

and change the value in the **Port** text box enclosed by a red rectangle in the **RIIL DCS Configuration** dialog box.)

RIL Installation Wizard	
RIIL DCS Configuration Advanced RIIL DCS Settings	RAL
RIIL CCS IP Address: 172.16.13.49 Port: 18002 Data Buffer Port: 18	3700
RIIL DCS RIIL DCS ID: DCS_172.16.13.49_88 Displayed Name: DCS Database Port: 18306 Port: 180 Initial JVM Memory: 512 Maximum Memory: 102	S_172.16.13.4)08 24
RIIL RCS Port: 18004	
Ruijie Networks Co., Ltd	Cancel

Figure 5-7

Click Next. The Start to Install the RIIL dialog box is displayed.

RIL Installation W	zard			- - ×
Start to Install the Going to Start RIIL I	RIIL			RAL
Going to start RIIL then click the Insta Installation path:	installation. Please c all button. E:\RuiJie\RIIL	onfirm the installation co	ontent and	
Installation conter RIIL DCS(Data o	nt collection service com IP: 172. 16. 13. 49	ponent) : , Port: 18008		*
				÷
uijie Networks Co., Lt	d	< Back	Install	Cancel

Figure 5-8

Installation type of server 4: Custom

In the Choose Components dialog box, select Custom from the Select the type of install drop-down list and select RIIL Logger Server(Log analysis component) and RIIL NTA Server(Traffic analysis component).

RIL Installation Wizard				
Choose Components Choose which features of RIIL 6.2 you want to install.				
Check the components you wan install. Click Next to continue.	t to install and uncheck the components you don't want to			
Select the type of install:	Custom			
Or, select the optional components you wish to install:	RIIL DCS(Data collection service component) RIIL Discovery Server(Discovery service com RIIL RCS RIIL Logger Server(Log analysis component) RIIL NTA Server(Traffic analysis component)			
	4 III >			
Space required: 266.2MB	Description Position your mouse over a component to see its description.			
Ruijie Networks Co., Ltd				
	< <u>B</u> ack Next > Cancel			

Figure 5-9

Click Next until the RIIL Database Configuration dialog box is displayed.

🔤 RIIL Installation Wizard			
RIIL Database Configuration Configure database connection information			
Database Server:	Orade 10g/11i 🔹		
IP Address of the Database Server:	172.16.36.104		
Database Port:	1521		
Database Name:	ord		
Database User Name:	riil_product		
Database Password:	•••••		
Checked to initialize the database			
Checked to install MySQL			
Ruijie Networks Co., Ltd —————	< Back Next >	Cancel	

Figure 5-10

In the **RIIL Database Configuration** dialog box, enter the IP address of server 1 in the **IP Address of the Database Server** text box and click **Next** (the installation program will test the database connection). The **RIIL NTA database Configuration** dialog box is displayed when the database connection passes the test.

RIIL Installation Wizard		
RIIL NTA database Configuration RIIL NTA database Configuration		RAL
Database server:	Oracle 10g/11i 🔹	
IP Address of the Database Server:	172.16.36.104	
Database Port:	1521	
Database name:	orcl	
Database username:	riil_nta	
Database password:	•••••	
Checked to initialize the database		
Ruiije Networks Co., Ltd		
	< <u>B</u> ack Next >	Cancel

Figure 5-11

Check the **Checked to initialize the database** check box. The installation program will automatically initialize the NTA database.

Note: Click **Next** if server 1 uses the database provided by the installation program. If server 1 does not use the database provided by the installation program, perform necessary data configuration. For example, create the riil_nta database and user **riil**.

After the configuration is completed, click **Next** until the **RIIL Server Configuration** dialog box is displayed.

RIL Installation Wizard	
RIIL Server Configuration Configure Server information	RAL
IP Address:	172.16.13.49 172.16.13.49
	Advanced Settings
Ruijie Networks Co., Ltd ————	< <u>B</u> ack <u>N</u> ext > Cancel

Figure 5-12

Enter the IP address of server 2 in the **RIIL CCS IP Address** text box of the **RIIL Server Configuration** dialog box. (If the port number of server 2 is changed when server 2 is installed, change the corresponding port numbers by clicking **Advanced Settings**, as shown in the following figures).

RIIL Installation Wizard	
RIIL Logger Server Configuration Advanced RIIL Logger Server Settings	AL.
RIIL CCS IP Address: 172.16.13.49 Data Buffer Port: 18700	
RIIL Logger Server Port: 18005 SysLog Port: 514 SNMP Trap Port: 162 Initial JVM Memory: 512 Maximum Memory: 1024	
Ruijie Networks Co., Ltd	Cancel

Figure 5-13

RIIL Installation W	izard Configuration Server Settings		RAL
RIIL CCS IP Address: Data Buffer Port	172.16.13.49 : 18700	Port:	18002
RIIL NTA Server Service Port: Initial JVM Memor	18007 ry: 512	Collection Port: Maximum Memory:	2055 1024
Ruijie Networks Co., Lt	:d	< Back	Next > Cancel

Figure 5-14

Click Next. The Start to Install the RIIL dialog box is displayed.

RIL Installation Wizard	
Start to Install the RIIL Going to Start RIIL Installation	RAL
Going to start RIIL installation. Please confirm the installation content and then click the Install button. Installation path: E:\RuiJie\RIIL	
RIIL NTA Server(Traffic analysis component) : IP: 172. 16. 13. 49, Port: 18005 RIIL NTA Server(Traffic analysis component) : IP: 172. 16. 13. 49, Port: 18007	*
<	
Ruijie Networks Co., Ltd	Cancel

Figure 5-15

After you confirm the installation contents, click Install to install RIIL.

6 Starting RIIL Services

Run starup.bat as Administrator

Go to Start -> All Programs -> RIIL -> RIIL 6.2 -> startup.bat (right-click the startup.bat file and choose Run as Administrator).



Figure 6-1

You can also go to **Menu** -> **Run** and input **services.msc** to manually start RIIL services.

Services						x
File Action View	<u>H</u> elp					
	🗟 🛃 🚺 🖬 🕨 💷 🕪					
Services (Local)	Name	Description	Status	Startup Type	Log On As	-
	Remote Desktop Services	Allows users to connect intera	Started	Manual	Network Service	
	🔍 Remote Desktop Services Use	Allows the redirection of Print	Started	Manual	Local System	
	🧟 Remote Procedure Call (RPC)	The RPCSS service is the Servi	Started	Automatic	Network Service	
	🔍 Remote Procedure Call (RPC)	In Windows 2003 and earlier v		Manual	Network Service	
	🧟 Remote Registry	Enables remote users to modif		Manual	Local Service	
	🧠 RIIL_CCS	RIIL_CCS		Automatic	Local System	
	🥋 RIIL_DB_SERVER		Started	Automatic	Local System	
	🥋 RIIL_DCS	RIIL_DCS		Automatic	Local System	
	🧟 RIIL_Discovery_Server	RIIL_Discovery_Server		Automatic	Local System	
	🧟 RIIL_Log_Server	RIIL_Log_Server		Automatic	Local System	
	RIIL_NTA_Server	RIIL_NTA_Server		Automatic	Local System	
	🧟 RIIL_Portal_Server	RIIL_Portal Server - http://ww		Automatic	Local System	
	🤐 RIIL RCS	RIIL RCS		Automatic	.\maochuyanu	-
	Extended Standard					

Figure 6-2

RIIL_DB_SERVER RIIL_CCS RIIL_DCS RIIL_Discovery_Server RIIL_Portal_Server RIIL_RCS RIIL_Log_Server RIIL_NTA_Server

7 Logging in to RIIL

Start the Internet Explorer and enter http://[IP]:port/ ([IP] is the IP address of the server of RIIL and port is 80 by default, which can be left blank).

8 Stopping RIIL Services

Run shutdown.bat as Administrator

Go to **Start** -> **All Programs** -> **RIIL** -> **RIIL** 6.2 -> **shutdown.bat** (right-click the **shutdown.bat** file and choose **Run as Administrator**).



Figure 8-1

You can also manually stop RIIL services.

Services						x
<u>File Action View</u>	<u>H</u> elp					
	à 🗟 🛛 📷 🕨 🔲 🕕 🕨					
Services (Local)	Name	Description	Status	Startup Type	Log On As	-
	🥋 Remote Desktop Services	Allows users to connect intera	Started	Manual	Network Service	
	🧟 Remote Desktop Services Use	Allows the redirection of Print	Started	Manual	Local System	
	🧟 Remote Procedure Call (RPC)	The RPCSS service is the Servi	Started	Automatic	Network Service	
	🧟 Remote Procedure Call (RPC)	In Windows 2003 and earlier v		Manual	Network Service	
	🧟 Remote Registry	Enables remote users to modif		Manual	Local Service	
	🤐 RIIL_CCS	RIIL_CCS		Automatic	Local System	
	🥋 RIIL_DB_SERVER		Started	Automatic	Local System	
	🤐 RIIL_DCS	RIIL_DCS		Automatic	Local System	
	🧟 RIIL_Discovery_Server	RIIL_Discovery_Server		Automatic	Local System	
	🧟 RIIL_Log_Server	RIIL_Log_Server		Automatic	Local System	
	RIIL_NTA_Server	RIIL_NTA_Server		Automatic	Local System	
	🧟 RIIL_Portal_Server	RIIL_Portal Server - http://ww		Automatic	Local System	
	🥋 RIIL RCS	RIIL RCS		Automatic	.\maochuyano	-
	\Extended \Standard /					

Figure 8-2

Services are stopped in the following sequence:

RIIL_Discovery_Server RIIL_Log_Server RIIL_DCS RIIL_NTA_Server RIIL_Portal_Server RIIL_RCS RIIL_CCS RIIL_DB_SERVER

9 Uninstalling RIIL

Go to Start -> All Programs -> RIIL -> RIIL 6.2 -> Uninstall.



Figure 9-1