## **SETTING MANUAL**

## SERVICE TOOL for VRF System

UTY-ASGX

Ver. 1.0



**CAUTION** Please read the LICENSE AGREEMENT in the manual first.

9708313023-01

FUJITSU GENERAL LIMITED

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## **1. Safety precautions**

- 1. Safety precautions
  - Before using Service Tool, read this "SAFETY PRECAUTIONS" thoroughly to ensure the correct operation.
  - This section describes the important safety information to operate Service Tool.
  - The meanings of "WARNING" and "CAUTION" are explained as follows.

A WARNING!	This mark indicates the procedures, which might result in the death of or serious injury to the user or service personnel if improperly performed.
	This mark indicates the procedures, which might result in personal harm to the user or damage to property if improperly performed.

## This manual is for service personnel authorized to use the Service Tool. Always keep this manual in an easily accessible place for use by authorized service personnel.

### A WARNING!

1. When using U10 USB Network Adaptor, follow the instructions given in the manual that comes with the product.

### **⚠ WARNING**!

Service Tool can control the air-conditioner system on a personal computer. Be careful not to turn off the power supply of the personal computer, or not to finish the application compulsorily during operation. Otherwise, Service Tool might malfunction. For personal computer used as Service Tool, refer to the instruction manual.

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This setting manual explains the setting procedures for the software of Service Tools for the VRF control system.

The use of the system tools allows detailed data about the operating condition of each refrigerant system that has been installed in the building's system to be displayed in an easy-tounderstand format.

Moreover, it also allows the latest data about pressure and temperature of indoor and outdoor units to be monitored. If there are fluctuations in the conditions, they can be displayed clearly in graph form on a PC screen.

When an error occurs in the transmission line or in an indoor or outdoor unit in the system, details about the error can be displayed on the error history screen for easy assessment of the conditions for fast troubleshooting and resolution.

### Software construction

The Service Tool software consists of the two functions Data acquisition application and WEB application

The Data acquisition application is a program which is made resident when the Service Tool starts, and exchanges data with the VRF System transmission line. The received Unit data is saved to a Data base.

The **WEB** application is a program which converts the acquired Unit data to Table and Graph, and displays them to a browser (Internet Explorer). It also converts operations input from the User and passes them to the Data acquisition application through the Database.



2. Outline

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## **3. Installation**

## **3-1** Precautions

• This product requires the use of one of the following optional transmission adaptors. Procure them in advance.

Name & Shapes	Q'ty	Remark
Transmission Adaptor (U10 USB Network Interface -TP/FT-10 Channel)	1	Model : 75010R (Echelon Corporation)
(Field Supply)		

## **3-2 Recommended specs**

This tool operates in the environment below.

Personal		AT compatible machine that runs $Microsoft^{^{\otimes}}Windows^{^{\otimes}}$	
Computer	Operating System	Microsoft <sup>®</sup> Windows <sup>®</sup> 2000 Professional (English version / Service pack4 or later) Microsoft <sup>®</sup> Windows <sup>®</sup> XP Professional (English version / Service pack2 or later) Microsoft <sup>®</sup> Windows <sup>®</sup> Vista Home Premium, Business, Ultimate Edition. (Eng- lish version)	
	CPU	Intel® Pentium <sup>®</sup> / Celeron <sup>®</sup> , AMD Athlon™ / Duron™ 1GHz or higher	
	HDD	4.1 GB or more of free space	
	Memory	1GB (Vista), 512MB(XP/2000) or more	
	Interface	USB port is required for each of the following; • Wibu Key (Software protection key) • Echelon <sup>®</sup> U10 USB Network Interface (Required for each VRF Network)	
Software		Internet Explorer 6.0 or 7.0 / Adobe® Acrobat® Reader 4.0 or later	

## **3-3 Installation flow**

	<u> </u>
•	Service Tool is tested to install and operate under new Windows environment. When program executional environment of Windows is corrupted or abnormal, or other softwares that interfere with the operation of Service Tool is installed or running, Service Tool may not install or run properly. It is usually extremely difficult to detect such condi- tions, if it occurs.
•	Service Tool product is provided with softwares, drivers, components listed below. If the same kind of softwares, drivers, components with different version is installed on the same PC, Service Tool may not install or run properly. 1) .NET Framework
•	<ul> <li>2) Internet Information Services (IIS)</li> <li>3) Microsoft<sup>®</sup> Data Access Components (MDAC)</li> <li>4) Microsoft<sup>®</sup> SQL Server 2005 Express</li> <li>If "Program Files" folder is compressed or encrypted, Microsoft<sup>®</sup> SQL Server 2005 Express cannot be installed. Release the settings before installation as follows:</li> <li>Start "Explorer" → right-click "Program Files" folder → select "properties" → click "Ad-</li> </ul>
	$\operatorname{Start}$ Explored $\rightarrow$ hypertex i regram here folded $\rightarrow$ select properties $\rightarrow$ click Au-

vanced..."  $\rightarrow$  release the check marks of the "Compress or Encrypt attributes".

Hardware installation Transmission adaptor installation Software installation (5-1) (5-2) Insert installation CD Microsoft® Net Framework 2.0 setup Microsoft Data Access Components 2.8 (MDAC) setup Microsoft® SQL Server 2005 Express setup Message confirming the installation of Adobe Acrobat Reader Continue Continue Installer terminates Internet Information Services (IIS) setup

IIS mapping information restoration

Service Tool for VRF System Ver 1.0 setup

WIBU-KEY setup



- Only English version MDAC and Microsoft<sup>®</sup> SQL Server 2005 Express component is compliant with this product. Operation cannot be guaranteed when other language version is used.
- Have installation performed by a user belonging to the Administrators group.

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## **4-1** Transmission adaptor installation



This transmission adaptor U10 USB Network Interface is connected using the USB port of a personal computer.

To use this product, turn on the power of the PC and install necessary drivers / software for this product (BEFORE connecting it to any USB port), following the \*\*\*QUICK START\*\*\* enclosed with this product.

## **4-2 Turning on the power**

### **⚠ WARNING**!

Do not turn on the power until all installation work is completed.

Once the wiring has been installed, the power can be turned on. Follow the procedure below for turning on the power.

) Turn on the power for all connected indoor units.



Turn on the power for all connected outdoor units.

3

Connect U10 USB Network Interface (Driver must installed following the procedure in section 4-1 before connecting). \*1



1 Make sure that USB equipment (USB hub, etc.) that this product is connected to, is not overloaded (power supplied thru the interface oes not exceeds the maximum limit).



Turn on the power for Service Tool PC, if it is not yet turned on.

4. Hard ware installation

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## **5-1 Installation Notes**

Before starting the installation of this product, check each of the followings.

- Install Adobe Acrobat Reader (Ver. 4.0 or later) prior to the installation. (Adobe Acrobat Reader does not come with this product).
- Have the installation CD of the Windows version (Windows<sup>®</sup> XP, Windows<sup>®</sup> 2000 or Windows<sup>®</sup> Vista) used for the PC ready. This will be required during the installation of IIS. If the following screen is displayed during IIS setup, you must follow the instruction on the screen. If you cancel the installation, setup will not be completed properly.

Insert Disk		Files Needed	
Please insert the Compact Disc labeled Windows XP Professional Service Pack 1 CD <sup>1</sup> into your CD-ROM drive (D:) and then click OK. You can also click OK if you want files to be copied from an alternate location, such as a floppy disk or a network server.	OK Cancel	Some files on Windows XP Professional Service Pack 1 CD are needed. Insert Windows XP Professional Service Pack 1 CD into the drive selected below, and then click DK.	OK Cancel
		Copy files from:	<u>B</u> rowse

- If one of the following product is already installed, remove it first. Also remove it when reinstalling other software components such as IIS, MSDE and WIBU-Key drivers. Refer "5-3 Software Removal" for how to remove these products.
  - Service Tool for VRF System (UTR-YSTC) Ver. 3.0 or later
  - Service Tool for VRF System (UTY-ASGX) Ver. 1.0
  - Web Monitoring Tool for VRF System (UTR-YMSA) Ver. 3.0 or later
  - Web Monitoring Tool for VRF System (UTY-AMGX) Ver. 1.0
- Do NOT insert WIBU-Key (Software protection key) enclosed with this product to the PC until product installation is completed.
- You are required to login to the computer as Administrator (or equivalent) to the PC to install this product.
- Stop all running programs before you start the installation.
- If Anti-Virus software product is installed, temporarily disable the software during the installation of this product.
- Please delete "Temporary Internet Files".
  - IE menu [tools]  $\rightarrow$  [Internet Options ...]  $\rightarrow$  [General] tab  $\rightarrow$  Press [Delete Files ...] button. If [Delete Files] message screen is displayed, check [Delete all offline content] and press "OK".

## **5-2 Software Installation**



Insert the CD for the "Service Tool for VRF System Ver. 1.0" into the CD drive of the PC you are about to install. Installation program starts automatically.

) If installation program does not start, double click the "setup.exe" stored in the root directory of the CD drive with the mouse.

InstallShield Wizard	
	Preparing to Install
	Service Tool for VRF System Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
	Configuring Windows Installer
he was	
	Cancel

After installation starts, follow the direction on the screen, which will guide you through the installation.



When installation program ends, Setting Manual for this product and "Windows Restart Confirmation Message" will appear. If you have not completed the remaining setup procedures described in the next section ("6. Setting") of the Setting Manual yet, do NOT restart the Windows. Complete the remaining setup procedures according to the description in the Setting Manual displayed on the screen first.

🐻 Service Tool for VRF Sy	rstem - InstallShield Wizard 🛛 🛛 🔀	
5	InstallShield Wizard Completed The InstallShield Wizard has successfully installed Service Tool for VRF System, Click Finish to exit the wizard.	Displaying Setting manual (PDF file).
4		Service Tool for VRF System Installer Information           Vou must restart your system for the configuration changes made to Service Tool for VRF System to take effect. Click Yes to restart now or No if you plan to restart later.
	< Back Einish Cancel	<u>Y</u> es <u>N</u> o





- Operation to be performed after inserting WIBU-Key (Software protection key) and when the "Found New Hardware Wizard" screen appears.
  - 1 From the 3 Windows Update Options, select "No, not this time". Then click "Next" to continue. This dialog may not always show.
  - 2 Select "Install the software automatically (Recommended).". Then click "Next" to continue.
  - 3 When completion dialog appears, click "Finish".
- When installing on Windows<sup>®</sup> Vista ,you may be asked for permission to continue with the operation.

In such cases, select "continue".

· Some operation may take long time . Please wait at least a couple of minutes.

### **5-3 Software Removal**

Before executing this procedure, be sure to stop the Service Tool program if it is running. Also, make sure that WIBU-Key is not inserted to the PC.

## 5-3-1 Windows<sup>®</sup> 2000 & XP

1) Open  $\square$  [Control Panel]  $\rightarrow$  [Add or Remove Programs], and

then remove the following programs.



) Select the program to be removed from the list below and click Remove

Target software	Program name
MSDE2000	Microsoft <sup>®</sup> SQL Server Desktop Engine
Microsoft SQL Server Express 2005	Microsoft <sup>®</sup> SQL Server 2005 Microsoft <sup>®</sup> SQL Server Native Client Microsoft <sup>®</sup> SQL Server Setup Support Files (English) Microsoft <sup>®</sup> SQL Server VSS Writer
WIBU-KEY	WIBU-KEY Setup (WIBU-KEY Remove)
Service Tool (UTR-YSTC) Service Tool (UTY-ASGX)	Service Tool for VRF System (Data acquisition) Service Tool for VRF System (Web) Service Tool for VRF System Service Tool for VRF System Ver x.x
Web Monitoring Tool (UTR-YMSA) Web Monitoring Tool (UTY-AMGX)	Web Monitoring Tool for VRF System (Data acquisition) Web Monitoring Tool for VRF System (Web) Web Monitoring Tool for VRF System Web Monitoring Tool for VRF System Ver x.x
U10 USB Network Interface driver	Echelon Open LDV x.x



- Programs to be deleted depends on the version of Service Tool or Web Monitoring Tool that is already installed. Not all of the programs listed above may appear.
- If you have removed Microsoft SQL Server Express 2005, make sure that you have deleted the following installation folder.
   [Target folder] Installation drive: \\Program files\Microsoft SQL Sever\MSSQL.1

3

Uninstall [IIS] from [Add/Remove Windows Components] of [Add/Remove Programs] in the Control Panel. (Remove "check" and follow the direction on the screen.)

W	/indows Components Wizard	X
	Windows Components You can add or remove components of Windows XP.	
	To add or remove a component, click the checkbox. A shaded b part of the component will be installed. To see what's included in Details. Components:	ox means that only a component, click
	🗹 🮒 Internet Explorer	0.0 MB 🔼
🗹 📆 Internet Information Services (IIS) 13.5 MB		13.5 MB
	🔲 🚉 Management and Monitoring Tools	2.0 MB
	🗌 🚅 Message Queuing	0.0 MB
	MSN Explorer	13.2 MB 🚬
	Description: Includes Windows Accessories and Utilities for your	computer.
	Total disk space required: 54.3 MB	Detaile
	Space available on disk: 1111.4 MB	
	< <u>B</u> ack	Next > Cancel

NoteFor IIS, do not remove it unless there is a definite need.If for certain reason, you have to remove IIS, remove Service Tool/Web Monitor-<br/>ing Tool first before removing IIS.

) If removal is completed, restart the Windows $^{\circ}$ .

## 5-3-2 Windows® Vista



Open  $\longrightarrow$   $\rightarrow$  [Program and Features] and then remove the following programs.

) Select the program to be removed from the list below and click <sup>la Uninstall</sup>

Target software	Program name
Service Tool	Service Tool for VRF System Ver x.x
Web Monitoring Tool	Web Monitoring Tool for VRF System Ver x.x
Microsoft SQL Server Express 2005	Microsoft <sup>®</sup> SQL Server 2005 Microsoft <sup>®</sup> SQL Server Native Client Microsoft <sup>®</sup> SQL Server Setup Support Files (English) Microsoft <sup>®</sup> SQL Server VSS Writer
U10 USB Network Interface driver	Echelon OpenLDV x.x
WIBU-KEY	WIBU-KEY Setup (WIBU-KEY Remove)



 Programs to be deleted depends on the version of Service Tool or Web Monitoring Tool that is already installed. Not all of the programs listed above may appear.

 If you have removed Microsoft SQL Server Express 2005, make sure that you have deleted the following installation folder.
 [Target folder] Installation drive: \\Program files\Microsoft SQL Sever\MSSQL.1



3) Turn off [Internet Information Service] from [Turn Windows features on or off] of [Programs and Features] in the Control Panel. (Clear corresponding check box, press "OK" and follow the direction on the screen.) In the Control Panel, select "Classic View".

Windows Features	
Turn Windows features on or off To turn a feature on, select its check box. To turn a f check box. A filled box means that only part of the fe	eature off, clear its eature is turned on.
<ul> <li>☐ ActiveX Installer Service</li> <li>☑ ☐ Games</li> <li>☐ Indexing Service</li> </ul>	*
<ul> <li>              Internet Information Services      </li> <li>             Microsoft .NET Framework 3.0         </li> <li>             Microsoft Message Queue (MSMQ) Server         </li> </ul>	F
Print Services     Remote Differential Compression     Removable Storage Management     RIP Listener	
Simple TCPIP services (i.e. echo, daytime SNMP feature	etc)
0	Cancel



Restart the Windows.

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## 6-1 Operating System setting

## 6-1-1 Windows<sup>®</sup> 2000 & XP

# Open the regional setting screen by sequentially selecting the menus as follows: ▲ [Control Panel] → [Date, Time, Language, and Regional Options] → [Regional and Language Options]

 When the control panel display format is Classic View, select the menus in the following order:

 $\frac{1}{2}$  start  $\rightarrow$  [Control Panel]  $\rightarrow$  [Regional and Language Options]

) The screen shown below is displayed.

Select English (United Kingdom) at the Standard and formats area of the Regional Options tab.

Select English (United Kingdom) at the Language for non-Unicode programs of the Advanced tab.

For Windows<sup>®</sup>2000 :Click Set default... button of the General tab.

Select English (United Kingdom) at the Select System Locale screen.



Note Do not change the settings clicking the [Customize...] button. Set the settings as follows, if by chance, the current settings differs. [Numbers]......Decimal symbol: "." (dot) [Time]......Time separator: ":" (colon) [Date].....Date separator: "/" (slash)

(4) Click [

OK.



### 6-1-2 Windows<sup>®</sup> Vista

### ■ Regional option



Open the regional setting screen by sequentially selecting the menu as follows. Clock, Language, and Region → [Control Panel] –

Regional and Language Opti time, or number format Change keyboards or other



The screen shown below is displayed.

Select English (United Kingdom) at the Current format area of the Formats tab.

ormats Loca	ation Keyboards and Languages Administrative
To change t	he way your computer displays numbers, currencies, dates, and
time, select i	an entry from the format list.
Exclisis (Line	ind Viewdow)
English (On	ned kingdonij
Examples of	how data is displayed using this format:
	133 455 380.00
Number:	123,430,789.00
Currency:	£123,456,789.00
Time:	21:35:21
Short date:	20/10/2008
Long date:	20 October 2008
	Customize this format
For addition	al formats, keyboards, and tools, go to the Microsoft website.

Select Administrative tab and click Change system locale... Unicode programs area.

in the Language for non-

If security confirmation screen appears, press "Continue".

ormats	Location	Keyboards and Langua	ges .	Administrative	
Langu	lage for n	on-Unicode programs			
This text	setting (s in program	ystem locale) controls ns that do not support	the la Unic	anguage used when ode.	displaying
Curr	ent langu	age for non-Unicode p	rogra	ams;	
E	nglish (U	nited States)			
			Ċ	🕐 Change syste	em locale
Wha	t is system	n locale?			_
Reser	ved accou	ints			
To c Cop	opy your y to resen	regional and language /ed accounts:	setti	ngs to these accour	its, click
E	Default us	er account (new users)			
9	ystem ac	counts (local system, lo	ocal s	ervice, and network	service)
The upd	keyboard ated wher	layout and display lang you copy your setting	guag Is to 1	e for the Welcome : the system account	screen are s.
		[	R	Copy to reserved a	ccounts
Wha	t are reser	ved accounts?			

Select English (United Kingdom) for the Current system locale in the Regional and Language Settings and click OK ·

Select which language (systen that do not support Unicode. computer.	n locale) to use when displaying text in programs This setting affects all user accounts on the
Current system locale:	
English (United Kingdom)	-

**Note** Do not change the settings clicking the [Customize...] button. Set the settings as follows, if by chance, the current settings differs.

[Numbers]......Decimal symbol:"."(dot)

[Time].....Time separator. ":"(colon) [Date].....Date separator:"/"(slash)

**4**) Click **0**K .

## 6-2 Internet Explorer setting



Start Internet Explorer, and select the following from the menu bar. [Tools]  $\rightarrow$  [Internet Options...]



Internet Explorer 7 setting

	Delete Browsing History Diagnose Connection Problem	ms
	Pop-up Blocker	
	Phishing Filter	
	Manage Add-ons	
~	Work Offline	
	Windows Update	
	Full Screen	F11
	Menu Bar	
	Toolbars	



The screen shown below is displayed. Select the Security tab.





 $\mathbf{5}$  Set the slider that indicates the Security Level to Medium or Medium-high.

.

## For Windows<sup>®</sup> XP SP2 and later versions or for Windows<sup>®</sup> Vista, perform steps (6) thru (9).

Otherwise, advance to step 10.

Click Custom level...



The screen shown below is displayed.

Set "Allow script-initiated windows without size or position constraints" to Enable.

	Security Settings	? 🛛
7	Settings: Disable Enable Allow scripting of Internet Explorer Webb Disable Enable Allow script-initiated windows without size Disable Enable Enable Enable Enable Disable Disable Disable Enabl	rowser contrc
<b>(8</b> )—	Keset to: Medium	Cancel
8 Click OK		
9 The screen show Click Yes	wn below is displayed.	
	Warning! Are you sure you want to change the secur	ity settings for this zone?

Yes

No

(9)



The screen shown below is displayed. Select the Connections tab.

To set up an Internet connection, click	Setup
ial-up and Virtual Private Network settings	
	A <u>d</u> d
	Remove
hoose Settings if you need to configure a proxy erver for a connection.	Settings
Never dial a <u>c</u> onnection	
Dial whenever a network connection is not pre	sent
Always dial my default connection	
Iurrent None	Set Default
ocal Area Network (LANI) settings	
AN Settings do not apply to dial-up connections.	LAN Settings
hoose Settings above for dial-up settings.	Ent octange.



) Click LAN Settings... .

(12) The screen shown below is displayed.

If you are using a proxy server, check on the [Bypass proxy server for local addresses] and press OK

Local Area Network (LAN) Settings				
Automatic configuration				
Automatic configuration may override manual settings. To ensure the use of manual settings, disable automatic configuration.				
Automatically detect settings				
Use automatic configuration script				
Address				
Proxy server				
✓ Use a pro⊻y server for your LAN (These settings will not apply to dial-up or VPN connections).				
Address: 92.168.16.107 Port: 3128 Advanced				
▼Bypass proxy server for local addresses				
OK Cancel				



For Windows<sup>®</sup> Vista or Internet Explorer 7 do the following. Select the Security tab, press "Custom level...".



Select enable for "Automatic prompting for file downloads".

	) Disable	•
	Prompt	
💌 S	cript ActiveX controls marked safe for scripting*	
	Enable	
0	Prompt	
Dowr	utomatic prompting for file downloads	
	Disable	
	Enable	
	ile doweload	
	) Disable	
F	ont download	
1 0	nieabla III	
*Takes eff	ect after you restart Internet Explorer	
Tunes en	certaria yourestarementerexplore	
Reset custo	m settings	
Reset to:	Medium-high (default)	leset

Select enable for "Allow websites to open windows without address or status bars".

ettings		
	) Enable	<b>x</b>
🦉 A	llow webpages to use restricted protocols for active co	onten
C	) Disable	
0	) Enable	
(	Prompt	- 95
🦲 A	llow websites to open windows without address or sta	iUs b
0	Disable	
	) Enable	
E D	isplay mixed content	
0	Disable	
C	) Enable	
	Prompt	
ED	on't prompt for client certificate selection when no cer	uncal
0	Disable	
	chable	-
•	m	F.
*Takes eff	ect after you restart Internet Explorer	
eset custo	m settings	
eset to:	Medium-high (default)	set

Finish setup by clicking **K** in the Internet Options window.

## **Trademarks**

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