Field Wireless Device Restart Tool Instruction Manual

Transmitter Division IA-PS Operational Technology Center Yokogawa Electric Corporation Date of issue: November 26, 2019

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1. Introduction

This manual describes how to operate Field Wireless Device Restart Tool.

This tool is for restarting Yokogawa Electric field wireless devices that are compliant with ISA100 Wireless[™].

Notes

- The information in this manual is subject to change without notice as a result of continuing improvements in performance, functionality, etc. Furthermore, the screens that are actually displayed may differ slightly from the screens displayed in this manual.
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- The information in this manual is for Field Wireless Device Restart Tool R1.01.01.

Term	Description
Field Wireless Device	A tool to restart field wireless devices.
Restart Tool	
Gateway Monitor Tool	A tool to manage field wireless devices.
	YFGW410: FWMC Monitor
	YFGW710: FWMT
EJX	EJX DDL series and EJX DDDB series
YTA510	YTA510 temperature transmitter
YTMX580	YTMX580 multi-input temperature transmitter
FN310-J	Field wireless multi-protocol module (HART communication)
FN310-M	Field wireless multi-protocol module (digital communication)
FN510-DIDOAI	FN510 field wireless multi-function module
FN510-ACAI	FN510 field wireless multi-function module acceleration sensor input
FN910	Field wireless solenoid-valve control module

Terms and Abbreviations



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1.2. Positioning of This Tool

This tool is for restarting Yokogawa Electric field wireless devices. It can be run using either of the two communication paths of via a gateway and via IrDA. When the target field wireless devices are connected via a Yokogawa Electric gateway (YFGW410, YFGW710, or GX20W), this tool allows you to restart them via the gateway without having to go to each location where a field wireless device is installed. For cases other than that, this tool allows you to restart the field wireless devices by connecting directly to them via IrDA.

The restart device function for restarting from the gateway monitor tool restarts only the wireless communication module, but this tool restarts both the wireless communication module and the sensor measurement module.

When communicating via gateway



Figure 1-1 Example of Configuration via Gateway



• When communicating via IrDA

Use the tool via IrDA in cases such as when the field wireless devices are connected via another company's gateway or they are not connected to a gateway.



Figure 1-2 Example of Configuration via IrDA

1.3. Software Operating Environment

The operating environment for this software is as follows.

•	Supported	operating	systems
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Operating Enviror	nment
Supported	Windows 7 Professional, 32-bit
operating	Windows 7 Professional, 64-bit
systems	Windows 10 Professional, 32-bit
	Windows 10 Professional, 64-bit

• .NET Framework

This tool is a Windows .NET application that runs in Microsoft .NET Framework. Microsoft .NET Framework 4.6 or another compatible version must be installed. .NET Framework 4.6 comes preinstalled in Windows 10. Please use that.



1.4. Infrared Adapter

To use the tool via IrDA, you need to obtain an infrared adapter and connect it to the PC.

The following infrared adapter is recommended. (Operation with other than the recommended infrared adapter is not guaranteed.)

Manufacturer	Product Name
ACTISYS	ACT-IR224UN-LN96
http://www.actisys.com/IrDAProd.html	



2. Installation and Uninstallation

This chapter describes how to install Field Wireless Device Restart Tool.

Field Wireless Device Restart Tool does not have an installer. Extract the provided compressed file and copy the resulting folder to any location.

To uninstall the tool, delete the folder.



3. Operating Procedure

3.1. When Communicating via Gateway

- Check that each of the field wireless devices is joined/published properly in the gateway monitor tool in advance. In addition, when the gateway is the YFGW710, write down the join count of the field wireless device for checking that the target field wireless device has restarted (rejoined) at the end of the procedure.
 * If the target device is used as "Router," set "IO+Router." When the device role is "Router," the applying of this process may fail.
- 2) Double-click the following exe file in the installed folder. FieldWirelessDeviceRestartTool_R1.01.01



 \rightarrow Field Wireless Device Restart Tool.exe

3) Select the gateway model (YFGW410 or YFGW710) to which to connect and enter the IP address, and then click the [Connect] button. If there are many connected field wireless devices, enter an arbitrary character string in "Device Tag Filter" and then click the [Connect] button to display only field wireless devices including the entered character string.

Q Field Wirelss Device Restart Tool					-		×
File(F) Help(<u>H</u>)							
Gateway VFGW410 V	192 . 168 . 0 . 101	Device Tag Filter EJX	Connect	Cli	ck		
Network ID Deve Tag	Model	Device Role F.1.64	Radio Firmware	Sensor Firmware	Battery Life	Status	
Select	Enter						
		Device Restart					



4) The field wireless devices are displayed in order in the device list. Wait until "Connect completed" appears for the tool status bar.

* If you wish to change the character string in "Device Tag Filter" or stop the process, "click the [Connect] button to disconnect without waiting for "Connect completed" to appear and then perform the procedure from step 3.



5) Select the field wireless device to restart (multiple devices can be selected).

le(F) Help(<u>H</u>)								<u> </u>	
ateway 🗸 🗸	YFGW710 ~ 19	92 . 168 . 0 . 101	Device Tag Fil	ter EJX	Connect				
Network ID	Device Tag	Model	Device Role	EUI-64	Radio Firmware	Sensor Firmware	Battery Life	Status	
700	7 EJX_R25_W2	EJX	IO+Router	0000:64FF:FEA0:96E9	R5.01.13	R2.03.02	1663		
7007	7 EJX20_101	EJX	IO+Router	0022:FF00:0002:147E	YKp4.02.24	R2.02.02	930		



6) Click the [Device Restart] button.

🔘 Field	d Wireless De	vice Restart Tool							<u> </u>	×
File(F)	Help(<u>H</u>)									
Gatew	vay ~	YFGW710 v 1	92 . 168 . 0 . 101	Device Tag Fil	ter EJX	Connect				
	letwork ID	Device Tag	Model	Device Role	EUI-64	Radio Firmware	Sensor Firmware	Battery Life	Status	
	7007	EJX_R25_W2	EJX	IO+Router	0000:64FF:FEA0:96E9	R5.01.13	R2.03.02	1663		
\square	7007	EJX20_101	EJX	IO+Router	0022:FF00:0002:147E	YKp4.02.24	R2.02.02	930		

7) If "Device Role" of the selected field wireless device includes "IO+Router," the following confirmation dialog box appears. Click the [OK] button to continue.



8) A confirmation dialog box appears. Click the [OK] button to execute.





9) Restart requests are sent successively to selected devices.

Check that the status becomes "Restart" as shown below.

* You cannot disconnect with the [Connect] button or exit the tool during execution of this process. Wait until the process completes.

	vice Restart Tool							
ile(F) Help(<u>H</u>)								
ateway 🚽	YFGW710 - 192	. 168 . 0 . 101	Device Tag Filt	er EJX	Connect			
Network ID	Device Tag	Model	Device Role	EUI-64	Radio Firmware	Sensor Firmware	Battery Life	Status
	-		-					Status
-	EJX_R25_W2	EJX	IO+Router	0000:64FF:FEA0:96E9	R5.01.13	R2.03.02	1666	Destaut
/00/	EJX20_101	EJX	IO+Router	0022:FF00:0002:147E	YKp4.02.24	R2.02.02	931	Restart
_	_	_	_	Device Restart	_	_	_	_

10) To check that the field wireless device has restarted, check that the target device has left the network in the gateway monitor tool.

* If it did not leave the network, perform the procedure again from step 5 for that field wireless device.

le To	ools Help		
10	2		
	Log Vi	ewer	
		Transmission and	
		\sim	Page: 1 /7 View <<< > >>
		\sim	Date and time: 2019/09/05 14:15:032019/11/08 15:11:59
		Date and time	
		Date and time 2019/11/08 15:11:59	Date and time: 2019/09/05 14:15:032019/11/08 15:11:59
	0		Date and time: 2019/09/05 14:15:032019/11/08 15:11:59 Message
		2019/11/08 15:11:59	Date and time: 2019/09/05 14:15:032019/11/08 15:11:59 Message admin logged in to the VFGW410.
	0	2019/11/08 15:11:59 2019/11/08 15:11:55	Date and time: 2019/09/05 14:15:032019/11/08 15:11:59 Message admin logged in to the YFGW410. admin logged out of the YFGW410.
	0	2019/11/08 15:11:59 2019/11/08 15:11:55 2019/11/08 15:11:30	Date and time: 2019/09/05 14:15:032019/11/08 15:11:59 Message admin logged in to the YFGW410. admin logged out of the YFGW410. YFGW410 Link up on F1
	0	2019/11/08 15:11:59 2019/11/08 15:11:55 2019/11/08 15:11:30 2019/11/08 15:11:27	Date and time: 2019/09/05 14:15:032019/11/08 15:11:59 Message admin logged in to the YFGW410. admin logged out of the YFGW410. YFGW410 Link up on F1 YFGW410 Link down on F1
	0	2019/11/08 15:11:59 2019/11/08 15:11:55 2019/11/08 15:11:30 2019/11/08 15:11:27 2019/11/08 15:11:26	Date and time: 2019/09/05 14:15:032019/11/08 15:11:59 Message admin logged in to the YFGW410. admin logged out of the YFGW410. YFGW410 Link up on F1 YFGW410 Link down on F1 YFGW410 Link up on F1 YFGW410 Link up on F1 YFGW410 Link up on F1
	000000000000000000000000000000000000000	2019/11/08 15:11:59 2019/11/08 15:11:55 2019/11/08 15:11:30 2019/11/08 15:11:27 2019/11/08 15:11:25 2019/11/08 15:10:40	Date and time: 2019/09/05 14:15:032019/11/08 15:11:59 Message admin logged in to the YFGW410. admin logged out of the YFGW410. YFGW410 Link up on F1 YFGW410 Link down on F1 YFGW410 Link down on F1 YFGW410 Link down on F1 YFGW410 Link down on F1
	0 0 0 0 0	2019/11/08 15:11:59 2019/11/08 15:11:55 2019/11/08 15:11:55 2019/11/08 15:11:27 2019/11/08 15:11:27 2019/11/08 15:10:40 2019/11/08 15:10:40	Date and time: 2019/09/05 14:15:032019/11/08 15:11:59 Message admin logged in to the YFGW410. admin logged out of the YFGW410. YFGW410 Link up on F1 YFGW410 Link up on F1 YFGW410 Link up on F1 YFGW410 Link down on F1 YFGW410 Link down on F1 YFGW410 Link down on F1 The security manager rejected 0000:64ff:fea0:96e6 joining to the network.

Example: When monitor tool in Field Wireless Management Console of YFGW410

network immediately after execution.



Example: When Field Wireless Management Tool of YFGW710 (GX20W)

🖌 🖉 🔝 🔝 🔜	-					
Network Topology Network H	lealth Devices					
Network Health information refres	hed on: 2019/11/08 0:37:02 (-480 s	econds ago)			Refresh	
Network ID: 7007	Devices Count: 12		Start Date: 2019/11/06 6:48:51	DPDUs Sent:	284323	
Network Type: 0	Join Count: 23		Current Date: 2019/11/08 0:37:02	DPDUs Lost:	15517	
letwork devices health information						
Device Tag	EUI-64 Address	Start Date	Current Date	DPDUs Sent	DPDUs Lost	Join Count
TMX580-PRV001	0022:FF00:0002:577F	2019/11/06 8:25:03	2019/11/08 0:37:02	19139	1209	2
TA2G_027	0000:64FF:FE9B:C0DA	2019/11/06 8:46:30	2019/11/08 0:37:02	21731	4785	2
FGW-BBR001	0022:FF00:0002:0B92	2019/11/06 6:49:06	2019/11/08 0:37:02	30648	0	1
(YR_6000_HLAI	0040:8400:0001:0334	2019/11/06 6:55:39	2019/11/08 0:37:02	17547	556	1
102	0022:FF00:0002:4D0E	2019/11/06 8:49:04	2019/11/08 0:37:02	20133	1459	2
N910_ESDV15	0000:64FF:FE9B:C1A5	2019/11/06 8:14:43	2019/11/08 0:37:02	18543	553	2
N510C_PP3	0000:64FF:FE9B:C38C	2019/11/06 8:20:55	2019/11/08 0:37:02	20316	340	2
N510A_DIDOAI_1	0000:64FF:FE9B:C1B1	2019/11/06 8:17:49	2019/11/08 0:37:02	26459	515	2
N310M_004	0000:64FF:FE9B:C1E6	2019/11/06 8:08:25	2019/11/08 0:37:02	18808	319	2
N310J_001	0000:64FF:FE9B:C3B5	2019/11/06 8:11:38	2019/11/08 0:37:02	33716	485	2
JX_R25_W2	0000:64FF:FEA0:96E9	2019/11/06 8:38:56	2019/11/08 0:37:02	20997	464	2
JX20_101	0022:FF00:0002:147E	2019/11/08 0:32:19	2019/11/08 0:37:02	0	0	3
			eck that the joir reased immedi		Ŭ	

11) To exit the tool, click the [x] button on the title bar or select "Exit" from the File menu.

File(F) Help(H) Infrared COM8 - Prolific USB-to-Serial Comm Port (COM9) Connect Commet Comme	Network ID Device Tag Model Device Role EUI-64 Radio Firmware Sensor Firmware Battery Life Status
Network ID Device Tag Model Device Role EUI-64 Radio Firmware Sensor Firmware Battery Life Status	Network ID Device Tag Model Device Role EUI-64 Radio Firmware Sensor Firmware Battery Life Status
2 456 EJX_R25_W4 EJX IO+Router 0000:64FF:FEA0:96E6 R5.01.13 R2.03.02 552 Restart	456 EJX_R25_W4 EIX IO+Router 00000:64FF:FEA0:96E6 R5.01.13 R2.03.02 552 Restart



Field Wireless	Device Restart Tool							-	×
File(F) Help(H	0								
Exit(X)									
Infrared		-to-Serial Comm Port	t (COM8)	Connect					
Network I	D Device Tag	Hick	Device Role	EUI-64	Radio Firmware	Sensor Firmware	Battery Life	Status	 _
		12.232	and the second se					1	
	56 EIX_R25_W4	EJX	IO+Router	0000:64FF:FEA0:96E6	R5.01.13	R2.03.02	552	Restart	
	56 EX_R25_W4	EX	10+Router	0000:64FF:FEA0:9666	85.01.13	R2.03.02	552	Restart	

The following dialog box appears. Click the [OK] button.





3.2. When Communicating via IrDA

- 1) Double-click the following exe file in the installed folder. FieldWirelessDeviceRestartTool_R1.01.01
 - \rightarrow Field Wireless Device Restart Tool.exe



2) Select "Infrared" for the connection destination.

Q Field Wireless D	levice Restart Tool							-	×
File(F) Help(H)									
Infrared ~ Gateway	YFGW710 v 192	. 168 . 0 . 101	Device Tag Filt	er 📃 🗌	Connect				
Infrared	Device Tag	Model	Device Role	EUI-64	Radio Firmware	Sensor Firmware	Battery Life	Status	
	Select								
				Device Restart					



3) Select the COM port, orient the infrared adapter toward the target field wireless device, and click the [Connect] button.

Q Field Wireless Det	vice Restart Tool							-	×
File(F) Help(<u>H</u>)									
Infrared \checkmark	COM1 - 通信ポート (COM1)		Connect					
Network ID	Device 1 g	Model	Device Role	EUI-64	Radio Firmware	Sensor Firmware	Battery Life	Status	
	Select				Click				
				Device Restart					

4) When a connection is established to the COM port, the [Connect] button turns blue and information about the field wireless device appears.

Q F	ield Wireless Dev	rice Restart Tool							-	×
File	(F) Help(<u>H</u>)									
Infr	ared 🗸	COM8 - Prolific USB-to-Se	erial Comm Port (COM	3) ~	Connect					
	Network ID	Device Tag	Model	Device Role	EUI-64	Radio Firmware	Sensor Firmware	Battery Life	Status	
	456	EJX_R25_W4	EJX	IO+Router	0000:64FF:FEA0:96E6	R5.01.13	R2.03.02	552		
					Device Restart					
Conne	ect completed									.:

5) Orient the infrared adapter toward the target field wireless device and click the [Start] button.

		vice Restart Tool							-	>
File(F) Help(<u>H</u>)									
Infra	ared \vee	COM8 - Prolific USB-to-	Serial Comm Port (C	OM8) ~	Connect					
\checkmark	Network ID	Device Tag	Model	Device Role	EUI-64	Radio Firmware	Sensor Firmware	Battery Life	Status	
\checkmark	456	EJX_R25_W4	EJX	IO+Router	0000:64FF:FEA0:96E6	R5.01.13	R2.03.02	552		
					Device Restart					
	ct completed		Click							



6) If "Device Role" is "IO+Router," the following confirmation dialog box appears. Click the [OK] button to continue.



7) A confirmation dialog box appears. Click the [OK] button to execute.

	Warning		×
		Are you sure you want to restart?	
Clic	:k ——	ОК + +v>tzll	

- 8) Check that the display for startup appears on the screen of the target field wireless device immediately after execution. For the screen displayed at startup, refer to the instruction manual for the corresponding field wireless device.
- 9) If the process ends successfully, the following dialog box appears. Click the [OK] button.





10) If you wish to execute the process for another field wireless device, click the [Connect] button to disconnect and then perform the procedure again from step 4.

Q F	eld Wireless De	vice Restart Tool								
File	F) Help(<u>H</u>)	Clic	k							
infr	ared \vee	COM8 - Prolific USB-to-S		18) 🗸	Connect					
1	Network ID	Device Tag	Model	Device Role	EUI-64	Radio Firmware	Sensor Firmware	Battery Life	Status	
	456	EJX_R25_W4	EJX	IO+Router	0000:64FF:FEA0:96E6	R5.01.13	R2.03.02	552		

- 11) To exit the tool, click the [x] button on the title bar or select "Exit" from the File menu.
 - [x] button on title bar

Field	Wireless De	vice Restart Tool							
File(F)	Help(H)								
Infrared	1	COMO - Dealiña LICD.	to-Serial Comm Port	(COM0)	Connect		Clic	k	
inirarec	1 V	COMB - Proline OSB	to-senar commission		Connect		0.10		
🛛 Ne	twork ID	Device Tag	Model	Device Role	EUI-64	Radio Firmware	Sensor Firmware	Battery Life	Status
2	456	EJX_R25_W4	EJX	IO+Router	0000:64FF:FEA0:96E6	R5.01.13	R2.03.02	552	Restart



The following dialog box appears. Click the [OK] button.





4. Appendix: Troubleshooting Via Gateway

i. "Can't connect" appears on the status bar

The connection with the gateway failed. Check the gateway selection, IP address, and cable connection with the gateway, and then click the [Connect] button again.



Figure 4-1 Connection Failure Example

ii. "Communication error" appears for the status

This appears when communication with the field wireless device is not possible. The target field wireless device may not be in the join/publish status. Check the network connection status of the target field wireless device in a gateway monitor tool such as FWMC.

Click the [Connect] button to disconnect, check the join/publish status, and then reconnect. * If you click the [Connect] button while the device is joined to the network, [*****] is displayed for the network ID.

) Fi	ield Wirelss Devi	ce Restart Tool							>
File((F) Help(<u>H</u>)								
Gate	eway 🗸 🗸	YFGW410 v 192	. 168 . 0 . 101	Device Tag Filt	ter 📃 📘	Connect			
	Network ID	Device Tag	Model	Device Role	EUI-64	Radio Firmware	Sensor Firmware	Battery Life	Status
C	*****	EJX20_101		IO+Router	0022:FF00:0002:147E	YKp4.02.24			Communication error
	/001	YTA2G_027	YTA510	IO+Router	0000:64FF:FE9B:C0DA	R5.01.13	R2.03.02		Get device information
	7000	FN310J_001		Router	0000:64FF:FE9B:C3B5	R1.07.07			
	7000	FN310M_004		IO	0000:64FF:FE9B:C1E6	R1.07.07			
	7001	T102		IO+Router	0022:FF00:0002:4D0E	YKp4.02.24			
	7001	YTMX580-PRV001		IO	0022:FF00:0002:577F	YKp4.02.24			
	7001	EJX_R25_W2		IO+Router	0000:64FF:FEA0:96E9	R5.01.13			
	7001	FN510C_PP3		IO+Router	0000:64FF:FE9B:C38C	R1.07.07			
	7001	FN910_ESDV15		IO	0000:64FF:FE9B:C1A5	R1.07.07			
	7001	FN510A_DIDOAI_1		IO+Router	0000:64FF:FE9B:C1B1	R1.07.07			
					Device Restart				





Via IrDA

iii. "Communication error" appears for the status

This appears when communication with the field wireless device you attempted to restart fails. Check that the connected COM port is the infrared adapter and that the infrared adapter is oriented toward the infrared receiver of the target device.

Q Fi	eld Wireless De	vice Restart Tool							-		×
File	F) Help(<u>H</u>)										
Infr	ared v	COM1 - 通信ボート (COM1)	~	Connect						
	Network ID	Device Tag	Model	Device Role	EUI-64	Radio Firmware	Sensor Firmware	Battery Life	Status		
	(Error)								Communic	ation erro	ar 👘
					Device Restart						

Figure 4-3 Connection Failure

iv. "Restart error" appears for the status

This appears when communication with the field wireless device you attempted to restart fails. Check that the infrared adapter is oriented toward the infrared receiver of the target device.

() F	ield Wireless	Device Restart Tool							-	×
File	(F) Help(<u>H</u>)								
Infr	ared 🗸	COM8 - Prolific L	JSB-to-Serial Comm Port (C	COM8) 🗸	Connect					
	Network I	D Device Tag	Model	Device Role	EUI-64	Radio Firmware	Sensor Firmware	Battery Life	Status	
	4	56 EJX_R25_W4	EJX	IO+Router	0000:64FF:FEA0:96E6	R5.01.13	R2.03.02	552	Restart error	
					Device Restart					
Conne	ect completed	i								

Figure 4-4 Information Acquisition Failure



Another Company's Field Wireless Device

When the tool is connected to another company's filed wireless device, display in the device list will be gray as shown in Figure 4-5 and restarting with this tool will not be possible.



Figure 4-5 Another Company's Field Wireless Device

