M2M RTU FAQ Ver1.02

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Q01 : How does user check whether the device has connected to RTU Center or not?

A01 : Please confirm the light of the device of RTU Center. If the color of the light of the device of RTU Center is green, it represents the device that has connected to RTU Center. If the color of the light of the device of RTU Center is red, it represents the device that doesn't connect to RTU Center.





Q02: Why does the RTU Center show the "Remote Station ID try to establish the connection, but can't fine the match Module!! information? A02: The module of RTU Center is not matched. Please confirm the module of RTU Center when user adds a new device.

2011/01/05 16:59:55	Remote Station ID "1" try to establish the connection, but can't fine the match Medulali (CRDS) (IP: 102-158-0-111, PORT-
2011/01/05 16:58:48	Modify a device "1" (Module Name GT-50). Station (D=1)
2011/01/05 16:56:13	Remote Station ID "1" close the connection!! (GPRS) (IP: 192.168.0.111, PORT: 2924)
2011/01/05 16:55:46	Remote Station ID "1" established the connection!! (GPRS) (IP: 192.168.0.111, PORT: 2924)
2011/01/05 16:54:40	Add a new device "1" (Module Name=G-4500, Station ID=1)

e:Unicode, Max. size: 20)	🔶 ок
<u></u>	Cancel
(1 ~ 65535)	
	e:Unicode, Max. size: 20)

Q03 : How does user do when user executes the RTU Center that automatically loads device information every time?

A03 : When user finished setting these devices parameters first time, click the Save button to save these parameters and the RTU Center will automatically loads these devices parameters next time.



Q04 : When user executed the RTU Center, but happened error "Server close". How does the user do?

A04:

The RTU Center can't build a server, Please confirm the correct IP address, Port or firewall.

Date / Time	Managa
2011/01/05 18:09:12	Server closed(Local IP: 192.168.0.111, Local PORT: 10000), Err=
Conversioned Local ID: 102 169	0.111 Level POP T: 10000

Modify IP address:

Modify Port:

Local IP : 192.168.0.104]	Local Port : 10000	
Modify IP :]	Modify Port :	

Q05 : If user finds the time/date of remote device that is wrong. How dose user do?

A05 : When the device connected to RTU Center, right-click the device and select Parameters => Device time to proofread the correct time on the RTU Center.

	A Decemptor		Statua	
	Dovido Namo		- Jiaius - D	
Parameters	Modula		2 G 4500	
	Station ID		2	
	Describe			
Upload SD File	Connected Priority		Only Ethernet	
	Connected Mother	1	Ethernet	
	Date&Time		2010/06/02 09:30:	43
	Remote Client IP		192.168.0.98	
	Remote Client PO	RT	3413	
	Send once time (u	nit: sec)	5	
	Heartbeat time (ur	III. Sec)	0	
C Device Time		Commar	ıd —	
Device Time Device Time:		Commar	nd	
Device Time Device Time: 2010/01/11 14:4	43:13	Commar Se	et Se	t as Now

Q06 : If user wants to upload the SD file of GT-540, GT-540P or G-4500 RTU. How dose user do?

A06: Right-click the device that user wants to upload and selects the "Upload SD File" item on the RTU Center. Then selects the file name that user wants to upload.

M2M RTU Center		
File Settings Help		
1	😂 🔗 🕑	
- 🗎 🔼	Parameter	Status
• • • •	Device Name	2
😝 3 Parameters	Modula	G-4500
	Station ID	2
6 5 Haland SD We	Describe	
	Connected Priority	Only Ethernet
57 C	Connected Mothod	Ethernet
8	Date&Time	2010/06/02 09:30:43
9	Remote Client IP	192.168.0.98
A 10	Remote Client PORT	3413
Z 11	Send once time (unit: sec)	5
	Heartbeat time (unit: sec)	0
1 ⁻¹²	Modbus module num	5

10032302.CSV	~	Parameter	Description	Defrech File Name
10052507.CSV		File Name	10032302 CSV	Refresh File Name
0052508.CSV		File Size (Unit: byte)	2248	- 10 1 .
10041500.CSV				
10032900.CSV				Save File
0010100.CSV				
10033000.CSV				
10033001.CSV		-		-
10040100.CSV				Del File
10040300.CSV				
10041600.CSV				
10041700.CSV				
10041800.CSV				Exit
10041900.CSV				
10042000.CSV				
10042100.CSV				
10042200.CSV				
10042300.CSV				
10032901.CSV				
10042400.CSV				
10042500.CSV				
10042600.CSV				
10042700.CSV		-		
10042800.CSV				
10042900.CSV	100			
10050200.05V	×			

Q07: Can I program to read the RTU information myself? What should I do?

A07: ICPDAS provides the M2M RTU Library to enable developers to program their own codes to read RTU's real-time data. Users can download Library by: http://ftp.icpdas.com/pub/cd/usbcd/napdos/m2m/rtu/rtu_center/software/

← → C 合 ① 不安全 | http://ftp.icpdas.com/pub/cd/usbcd/napdos/m2m/rtu/rtu_center/software/

ftp.icpdas.com - /pub/cd/usbcd/napdos/m2m/rtu/rtu_center/software/

[To Parent	Directory]	
1/18/2017	2:51 PM	789 <u>readme.txt</u>
3/9/2015	4:48 PM	1818624 <u>rtu_api.zip</u>
3/9/2015	4:48 PM	327680 rtu center v1.10.zip
3/9/2015	4:48 PM	327680 rtu_center_v1.12.zip
3/9/2015	4:48 PM	327680 rtu_center_v1.14.zip
8/27/2015	3:44 PM	327680 rtu_center_v1.15.zip
10/14/2015	2:05 PM	313098 <u>rtu_center_v1.16.zip</u>
10/22/2015	1:43 PM	473321 <u>rtu_center_v1.20.zip</u>
1/18/2017	2:51 PM	481820 rtu_center_v1.21.zip

And can refer to the manual for program development:

http://ftp.icpdas.com/pub/cd/usbcd/napdos/m2m/rtu/rtu_center/manual/

← → C ① 不安全 | http://ftp.icpdas.com/pub/cd/usbcd/napdos/m2m/rtu/rtu_center/manual/

ftp.icpdas.com - /pub/cd/usbcd/napdos/m2m/rtu/rtu_center/manual/

[To Parent Directory] 3/9/2015 4:48 PM 1032192 <u>m2m rtu center user manual_v1.02.pdf</u> 3/15/2017 4:25 PM 822191 <u>m2m rtu_api manual.pdf</u>

rtu_api.zip ▶ RTU_API ▶ demo ▶				
名稱	類型	壓縮大小		
RTU_CS_Net_demo	檔案資料夾			
RTU_VB_Net_demo	檔案資料夾			
퉬 RTU_VC6_demo	福案資料夾			

Can also refer to Demo code for secondary development:

Q08: Can I store the real-time data on the RTU in the database?

A08: Yes, after RTU version 1.20, we have already supported MS SQL and MySQL database storage functions. Users can save the connection data of SQL in RTU Center through setting. When the device is connected, it will automatically save the data into the database.

http://ftp.icpdas.com/pub/cd/usbcd/napdos/m2m/rtu/rtu_center/software/

← → C ① 不安全 | http://ftp.icpdas.com/pub/cd/usbcd/napdos/m2m/rtu/rtu_center/software/

ftp.icpdas.com - /pub/cd/usbcd/napdos/m2m/rtu/rtu_center/software/

[To Parent	<u>Directory]</u>	
1/18/2017	2:51 PM	789 <u>readme.txt</u>
3/9/2015	4:48 PM	1818624 <u>rtu_api.zip</u>
3/9/2015	4:48 PM	327680 rtu center v1.10.zip
3/9/2015	4:48 PM	327680 rtu center v1.12.zip
3/9/2015	4:48 PM	327680 rtu_center_v1.14.zip
8/27/2015	3:44 PM	327680 rtu_center_v1.15.zip
10/14/2015	2:05 PM	313098 rtu center v1.16.zip
10/22/2015	1:43 PM	473321 rtu center v1.20.zip
1/18/2017	2:51 PM	481820 <u>rtu_center_v1.21.zip</u>

Set My SQL connection information:

Database Properties			×
Database Type ◎ None ◎ MS	SQL Server	IL	🔶 ок
SQL Database Communicatio	n Configuration		
Database Name :	rtu_db_test		Cancel
IP Address :	127.0.0.1		
Port Number :	3306		
User Name :	root		
Password :	•••••	Verify DB	

Here, please add a new database in MySQL, and fill in the name in the Database Name field. RTU Center cannot add a database, only the data table will be added. After filling in the connection information, press the Verify DB button to check and set the database. After successful connection, 3 data tables will be added automatically for storing data:

Date / Time	Message
2018/12/07 14:48:38.048	My SQL Connection Success!!
2018/12/07 14:48:13.214	station_data_comm
2018/12/07 14:48:13.214	station_data_modbus
2018/12/07 14:48:13.214	station_last_record

View the three new data tables with phpmyadmin:

-	- □ 「有服器: 127 0.0.1 » ● 資料庫: rtu_db_test																
4	結構	SQL	٩,	搜	₫ 🗊	查詢	🛃 匯出	-	重入 。	🎤 操作	📃 欄根		前存	事	🕑 事件	28 🗰	發業 🧿
	資料表	<u>م</u>		動作							資料列數	0	型態	編碼	與排序	大小	資料分散
	station	n_data_co	mm	\bigstar	📄 瀏覽	▶ 結構	💘 搜尋	新增	릚 清空	: 🤤 刪除		0	InnoDB	latin1	_swedish_ci	16 K	-
	station	n_data_mo	odbus		瀏覽	14結構	🤹 搜尋	新增	₩ 清空	: 🥥 刪除		0	InnoDB	latin1	_swedish_ci	16 K	-
	station	n_last_rec	ord	*	🗌 瀏覽	▶ 結構	🕞 搜尋	新增	릚 清空	: 🤤 刪除		0	InnoDB	latin1	_swedish_ci	16 K	-
	3 張資	料表		總計								0	InnoDB	latin	1_swedish_c	i 48 KI	0 B

"station_data_comm" structure:

←	ģ	伺服器: 127.0.0.1 » 📄 資料!	≢: rtu_db_te	əst » 🔜 資料表: stat	ion_da	ita_co	mm
	溋	1981 日本 新聞 A SQL	. 🔍 捜装	季 👫 新増 🖪	建	L I	▶ 匯入
	#	名稱	型態	編碼與排序	屬性	空值	預設值 額
	1	station_id	int(16)			否	無
	2	priority	varchar(8)	latin1_swedish_ci		否	無
	3	connect_interface	varchar(8)	latin1_swedish_ci		否	無
	4	date_time	datetime			否	無
	5	modbus_device_number	int(8)			否	無
	6	sd_error	int(8)			否	無
	7	gps_data	text	latin1_swedish_ci		是	NULL

"station_data_modbus" structure:

~	i 1	司服器: 127.0.0.1	» 📄 資料庫: rti	u_db_test » 🔜 資料	表: stati	ion_data	_modbus
	瀏	第 14 結構	SQL (🔍 搜尋 📑 新	増	通用	📑 匯入
	#	名稱	型態	編碼與排序	屬性	空值 預	設值 額外資
	1	modbus_name	varchar(160)	latin1_swedish_ci	ī	否 無	·
	2	slave_id	int(8)		ī	r <i>m</i>	
	3	is_valid	int(8)		ī	否 無	•
	4	di_data	text	latin1_swedish_ci	ī	否 無	
	5	do_data	text	latin1_swedish_ci	ī	否 無	•
	6	ai_data	text	latin1_swedish_ci	ī	否 無	•
	7	ao_data	text	latin1_swedish_ci	ī	否 無	•
	8	counter_data	text	latin1_swedish_ci	ī	否 無	
	9	station_id	int(16)		ī	否無	•
	10	date_time	datetime		ī	否 <i>無</i>	•

"station_last_record" structure:

←	ģ	伺服	器: 127	0.0.1	» 🏢	資料庫	rtu_d	lb_t	est	»	資料	表:	statio	on_las	t_rec	ord
	2	爦	1 1	講		SQL	٩,	搜	魯		⊨ 新	増	*	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-
	#	名種	į	型態		編碼與	排序		屬	ŧ	空值	預調	貴値	額外	資訊	動作
	1	stat	ion_id	int(1	6)						否	無				Ø1
	2	gps	_data	text		utf8_ge	eneral	_ci			是	NU	LL			Ø 1
	3	io_d	lata	text		utf8_ge	eneral	_ci			否	無				Ø1
	4	date	_time	date	time						否	癬				Ø

Q09: Why can't I connect to MS SQL (SQL Server)?

A09:

Check1: Confirm that the Windows Firewall is enabled via MS SQL Port: 1433: Select advanced settings





*		Windows Firewall with Advance	d Security			×
File Action View Help						
Curbound Rules Outbound Rules Connection Security Rules Monitoring	Name Protocol and Ports Specific flag protocol and Ports Name Name	Group New Inbound Rule Wizard which this rule apply to 10 Por UDP? TCP Dest this rule apply to all local post or specific local posts? All local post Specific local post Example 80, 443, 5009 5010 C Back	Profile Next> Cc	noel	Actio ^	Inbound Rules

Check2: Confirm that the TCP/IP project for the network configuration in Sql Server Configuration Manager is enabled.

🚰 Sql Server Configuration Manager									
File Action View Help Image: SQL Server Configuration Manager (Local) Image: SQL Server Services Image: SQL Server Services Image: SQL Server Network Configuration (32bit) Image: SQL Server Network Configuration (32bit) Image: SQL Server Network Configuration (32bit) Image: SQL Server Network Configuration Image: SQL Native Client 11.0 Configuration	Protocol Name Shared Memory Named Pipes TCP/IP Enab Disat Prop	Status Enabled Enabled Disabled le erties							
Enable selected protocol.									

Q10: Can I control the IO of my device through the RTU Center? What should I do?

A10: Yes, first find your device and double-click the mouse to open the page:



Click the DO button on the control page or enter the AO value. The RTU Center will return the value to the device for control.

