Haiwell PLC Operating System Upgrade and Update procedure

Purpose

This user's guide explains how to upgrade Haiwell PLC's Operating System but also the firmware of haiwell extend modules

Note: Examples and screen shots are provided in this documentation using Haiwellhappy version 2.2.2. The procedures described hereafter match all versions from 2.2.2, and the operating modes are the same for all versions.



The firmware of Haiwell-PLC or Modules can be updated thru HaiwellHappy programming software. For the most up to date PLC firmware update file please visit our Web-Site at :<u>http://www.haiwell.com/en/download.asp?nid=26.</u>

Haiwell default Communication Data Format is **19200 N 8 2**, but in order to let the speed of firmware upgrading process get improved, the user can also use higher baud rate such as **115200**. Both the two ways are ok at the user's free choice.

The steps needed to take in order to update the Haiwell-PLC will be described at below:

Step 1:

Go to Web-Site to download the latest version of Haiwell PLC firmware update file to your computer. In this guide we will use Haiwell PLC firmware N40S2T V1.1 for an example.

Step 2:

Make sure you have connected the target PLC with your computer. Open the Happywell programming software and click the [PLC Online] button .

🌇 HaiwellHappy V2.2.2		
: File(F) Edit(E) View(V)	PLC (P) Debug (D) Tools (T) Windows (W) Help (H)	11
i 🗋 💣 🤭 - 🗟 🤌 🖄 🖗	PLC Online	🗅 🚯 🔒 🕄
	PLC Upload (PLC to PC)	
	PLC Download (PC to PLC)	
	🔛 Download PLC executable file (PC to PLC)	
	PLC Firmware upgrade	
	Eun Run	
	1 Stop	
	🕫 Clear program	8
	Program compare	
	PLC diagnosis	
	🔒 Set password	
	Set PLC clock	
	Set communication parameter	
	le. Set PLC parameter	

🛃 PLC Online	×
-Online mode	
⊙ COM ☐ ZigBee	O TCP/IP
Parameter	
PC Port: COM1 👻	Start address: 1 🗘
Baud rate: 19200 🗸	End address: 254 😂
Data format: N,8,2 RTU 💌	Find
Find standalone timeou	nt: 200 🗢 ms
Append to list Overlay the list	it
Address:1 Haiwell PLC	Online
	Exit
Haiwell PLC number:1	

Step 3: Set communication parameter

Set the higher baud rate parameter if the user wants higher speed in firmware

upgrading process.

File (P) Edit (P) View (V) PLC (P) Debug (P) Tools (T) Windows (W) Help (H) Online PLC W PLC Hatt PLC 25%	📲 HaiwellHapp	y ¥2.2.2			
Online PLC 評比 Upload (PLC to PC) PLC 地址 PLC 名称 I Haiwell PLC I Haiwell PLC Image: Stop Image: Stop	File(F) Edit(() View (V)	PLC	(P) Debug (D) Tools (T) Windows (W) Help (H)	
PLC 拖拉 PLC 名称 FLC Download (PC to FLC) 1 Haiwell PLC Download PLC executable file (PC to PLC) PLC Firmware upgrade Image: PLC Firmware upgrade Image: PLC Fir	i 🗋 💣 🤌 - 📓	128	-	PLC Offline	🗅 🗅 🔒 🎎 🕮 🚺
1 Haiwell PLC 1 Haiwell PLC <td< td=""><td>Online PLC</td><td>1</td><td>\$</td><td>PLC Upload (PLC to PC)</td><td></td></td<>	Online PLC	1	\$	PLC Upload (PLC to PC)	
PLC Firmware upgrade Run Stop Clear program Clear program Program compare PLC diagnosis PLC diagnosis Set password Online mode COM PC Using port Parameter 1920 Set PLC clock Parameter 1920 Set PLC parameter Target PLC configure PN 1506011057-011000000 PLC Switch postion	PLC地址	PLC 名称	盤	PLC Download (PC to PLC)	
Run Stop Clear program Clear program Program compare PLC diagnosis Set password Online mode CON PC Using port Com Parameter 1920 Set PLC clock PN 1506011057-011000000 PLC Switch postion	1	Haiwell PLC		Download PLC executable file (PC to PLC)	
Stop Clear program Program compare Program compare PLC diagnosis Set password Online mode CON PC Using port Parameter Target PLC configure PN 1506011057-011000000 PLC Switch postion Run				PLC Firmware upgrade	
Clear program Program compare PLC diagnosis Set password Online mode COM PC Using port Parameter Parameter Target PLC configure PN 1506011057-011000000 PLC Switch postion Run			1	Run	
Program compare PLC diagnosis Set password Online mode CON PC Using port Com Parameter 1920 Set PLC clock Parameter 1920 Set PLC parameter Target PLC configure PN 1506011057-011000000 PLC Switch postion			#	Stop	
Program compare PLC diagnosis Set password Online mode CON PC Using port Com Parameter 1920 Set PLC clock Parameter 1920 Set PLC parameter Target PLC configure PN 1506011057-011000000 PLC Switch postion	-		B	Clear program	
Image: Set PLC diagnosis Online mode COM Online mode COM PC Using port Com Parameter 1920 Set PLC clock Parameter 1920 Set PLC parameter Target PLC configure PN 1506011057-011000000 PLC Switch postion Run					
Image: Constraint of the set password Online mode CON PC Using port Com Parameter 1920 Image: Set PLC clock Image: Set PLC clock Image: Set PLC clock Image: Set PLC clock Image: Set PLC parameter Image: Set PLC parameter Image: Target PLC configure PN 1506011057-011000000 Image: PLC Switch postion			A state	PLC diagnosis	
Online mode CON Set PLC clock PC Using port Com Set PLC clock Parameter 1920 Set communication parameter Target PLC configure Set PLC parameter PN 1506011057-011000000 PLC Switch postion Run	<	Ш	A		
PC Using port Com Parameter 1920 Set communication parameter Target PLC configure PN 1506011057-011000000 PLC Switch postion Run	Online mode		1020		
Target PLC configure PN 1506011057-011000000 PLC Switch postion Run	the second s				
Target PLC configure Image: Configure PN 1506011057-011000000 PLC Switch postion Run	Parameter	1920			
PN 1506011057-011000000 PLC Switch postion Run	Taraat DL C cont	iouro	43	Set PLC parameter	
PLC Switch postion Run		-	6011	057-011000000	
				001-01100000	

Choose the" set communication parameter" option and get the following screen:

Option 1, choose the baud rate 19200

-Target PLC PLC Name: Haiwell PLC	PLC Address: 1
COM1 timeout: 200	COM1 Parameter: 19200,N,8,2 RTU
COM2 timeout: 500 Using port: Com1	COM2 Parameter: 19200,N,8,2 RTU
Set communication parameter	
PLC Port: COM1 🖌	timeout: 200 📚 ms
Baud rate: 19200	~
Data format: N,8,2 RTU	~

Option 2, choose the baud rate 115200

🖉 Set communio	cation parame	eter 🛛 🔀
-Target PLC-		
and the second	ne: Haiwell PLC	PLC Address: 1
COM1 time	out: 200	COM1 Parameter: 19200,N,8,2 RTU
COM2 time Using p	out: 500 ort: Com1	COM2 Parameter: 19200,N,8,2 RTU
-Set communica	ation parameter	
PLC Port:	COM1 🖌	timeout: 200 🗢 ms
Baud rate:	19200	▼
Data format:	2400 4800 9600	
	19200 38400 57600	OK Cancel
	115200	

Then click ok, the baud rate parameter are now set successfully.

Step 4:

Update the PLC firmware, which can be startup by the following path.

職 HaiwellHap	py ¥2.2.1		
: File(F) Edit	(E) View (V)	PL	(P) Debug(D) Tools(T) Windows(W) Help(H)
i 🗋 💣 🥏 • 🛙	🛾 👌 🖉 🖁	6	PLC Offline
Online PLC			PLC Upload (PLC to PC)
PLC Address	PLC Name	國	PLC Download (PC to PLC)
1	Haiwell	*	Download PLC executable file (PC to PLC)
			PLC Firmware upgrade
			Run
		1	Stop
		۵	Clear program
			Program compare
		8	Set password
<	Ш		Set PLC clock
Online mode	CO		
PC Using port	Co	14	Set communication parameter
Parameter	19:	201	Set PLC parameter

Afterwards, the screen will be shown:

				Download
<			>	
Target PLC config			_	
PLC Name	Haiwell PLC			
PLC Address CPU Module	N40S2T	V1.1		
Extend module1		V1.1		
-Select the modu	ile to be upgraded			Upgrade

找范围(I):	🗁 HNseriesV1.1_Update 🛛 🗸	G 🤣 📂 🖽 -
2	📷 H16SOR_1. 1_UpDate.mdu 📷 H40S2T_1. 1_UpDat 🖬 H16SOT_1. 1_UpDate.mdu 📷 H60SOR_1. 1_UpDat	
Recent	💼 H16S2R_1.1_UpDate.mdu 📑 H6OSOT_1.1_UpDat	e. mdu
-	🖬 H16S2T_1.1_UpDate.mdu 🛛 H6OS2R_1.1_UpDat	e. mdu
	🖬 H24SOR_1.1_UpDate.mdu 🛛 🖬 H6OS2T_1.1_UpDat	e. mdu
桌面	🖬 H24SOT_1.1_UpDate.mdu 🛛 🖬 N16SOT_1.1_UpDat	e. mdu
энс Ш	🖬 H24S2R_1.1_UpDate.mdu 🛛 📷 N16S2T_1.1_UpDat	e. mdu
	🖬 H24S2T_1.1_UpDate.mdu 🛛 📷 N24SOT_1.1_UpDat	
	🖬 H32SOR_1.1_UpDate.mdu 🛛 📷 N24S2T_1.1_UpDat	
的文档	H32SOT_1.1_UpDate.mdu 🔤 N40SOT_1.1_UpDat	
	H32S2R_1.1_UpDate.mdu H40S2T_1.1_UpDat	
	H32S2T_1.1_UpDate.mdu 📑 N6OSOT_1.1_UpDat	
的电脑	H40SOR_1.1_UpDate.mdu 🔤 N60S2T_1.1_UpDat	e. mdu
~	H40SOT_1.1_VpDate.mdu	
	H40S2R_1.1_UpDate.mdu	
上邻居		
	文件名(N): N4OS2T_1.1_UpDate.mdu	✓ 打开:

Then click the [Open] option, following screen will be shown:

Afterwards, the screen will be changed to

File Module type	C:\Documents and N40S2T	r Settings (Admin	is Open
Version	1.1 346988		Downloa
Program size	340988		
<			>
Farget PLC cont	figure:		
PLC Name	Haiwell PLC		
PLC Address	1		
CPU Module	N40S2T	V1.1	
-Select the mo	odule to be upgraded Module type:		Upgrade

File Module type	C:\Documents and Settings\Adminis N40S2T	Open
Version Program size	1.1 346988	Download
<	8	
PLC PLC CPL CPL	. Happy [N4OS2T] Module firmware upgraded com	plete!
PLC		plete!

At last, the screen will remind you that the upgrading process is completed as above. And it's better to change the plc baud rate back to 19200 or 9600 for more convenient use in the industrial control. Now **conguratulations**, the updating is done **successfully.**