| Classification | ISaGRAF FAQ- | | | | | | |
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The Soft-GRAF Application: Alarm Lists

This paper lists the way to use the Soft-GRAF HMI software to build an alarm-list application in the ISaGRAF WinCE PAC.

1.1. Download Demo Programs and Documents

The following driver versions of ISaGRAF WinCE PAC support the Soft-GRAF HMI. They can run the Soft-GRAF demo program included in this FAQ-160.

| ISaGRAF PAC | ISaGRAF Driver Version |
|------------------|------------------------|
| WinCE PAC: | |
| XP-8xx7-CE6 | 1.33 or later version |
| XP-8xx7-Atom-CE6 | 1.01 or later version |
| WP-8xx7 | 1.53 or later version |
| WP-5147 | 1.02 or later version |
| VP-25W7/23W7 | 1.45 or later version |

Download the ISaGRAF Driver:

If your driver version is an earlier one, you may download the new ISaGRAF Driver from <u>www.icpdas.com</u> > <u>ISaGRAF SoftLogic PAC > Driver</u> and then follow the attached document to update it to your ISaGRAF PAC.

Download the ISaGRAF Demo Project:

This paper is the ISaGRAF FAQ-160. User can download the document, ISaGRAF demo (faq160.pia, faq160a.pia, faq160b.pia) and Soft-GRAF demo programs (FAQ160, FAQ160A, FAQ160B) from http://www.icpdas.com/faq/isagraf.htm **160** (faq160_demo.zip). Then, unzip the file and restore these demo programs to the PC/ISaGRAF.

| 🔯 ISaGRAF - Project Management | - 🗆 🗙 | |
|---|--|--|
| <u>File Edit Project Tools Options Help</u> | | |
| Image: Book of the second | Projects Archive - Projects | × |
| Reference Import IL program | Workbench Archive creation demo01 demo02 demo03 demo04 demo05 demo06 dl_100 ex1 example1 faq151_1 faq151_2 avuse_t faq160 faq160b | Backup <u>R</u> estore <u>C</u> lose <u>H</u> elp |
| | Archive location C:\ISAWIN\ | Compress |
| ICP D | AS Co., Ltd. Technical Document | |

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1.2. Description of Demo Programs

This FAQ-160 provides demo programs as the following table.

| ISaGRAF | Soft-GRAF | Description |
|-------------|-----------|--|
| faq160.pia | FAQ160 | For Alarm Lists (No SMS function) |
| faq160a.pia | FAQ160A | For Alarm Lists (It sends short message to 1 cell. phone) |
| faq160b.pia | FAQ160B | For Alarm Lists (It sends short message to 5 cell. phones) |

Now, we will focus on "FAQ160A" to explain this demo program.

1.2.1. Description of the ISaGRAF Program (faq160a.pia)

Project Architecture: There is one Ladder and one ST program in this project.

| - ISaGRAF - FAQ160A - Programs |
|--|
| File <u>Make</u> Project Tools Debug Options Help |
| ▙ █ ♣ ▓ @ @ @ @ @ @ & @ & |
| Begin: ST1 handle initial settings and SMS Begin: LD1 handle Event |
| Begin: ST1 (Structured Text) |

ISaGRAF Variables:

| Name | Туре | Attribute | Description | | | | |
|--------------------------------------|---------|-----------|---|--|--|--|--|
| Event1 | Boolean | Internal | Set "True" to trigger an Alarm without pop-up dialog. | | | | |
| Event2 | Boolean | Internal | Set "True" to trigger an Alarm with a pop-up dialog. | | | | |
| Event3 | Boolean | Internal | Set "True" (hold on True for 5 seconds) to trigger an Alarm. | | | | |
| INIT | Boolean | Internal | Set its initial value as "TRUE. | | | | |
| ТМР | Boolean | Internal | For temporary usage. | | | | |
| Alarm_bit | Boolean | Internal | Addr. = 11 , In this demo, it is used for the HMI object "g_Alarm". | | | | |
| SMS available | Boolean | Input | 1st Channel in the ISaGRAF – "I/O connection > SMS" window. The value must be "TRUE" to be able to send SMS. If the value is "False", it could be: | | | | |
| | | | COM Port error (In the "I/O connection" window) Without installing the 3G I/O card or SIM card. Without configuring the I/O card with Utility. Poor network signal | | | | |
| ICP DAS Co., Ltd. Technical Document | | | | | | | |

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|--------------------------------------|------------|-----------|---|--|--|--|--|--|
| Author Jar | nice Hong | Version 1 | .0.0 Date Dec. 2012 Page 3 / 22 | | | | | |
| М5 | Boolean | Internal | M5 is triggered automatically when the Event5 happens. | | | | | |
| save_phone | Boolean | Internal | Addr. = 31, set "TRUE" to save phone number to a file. In this demo, it is used for the "Save button (g_B_Inp)". | | | | | |
| need_retry1 | Boolean | Internal | - | | | | | |
| Val_4 | Integer | Internal | Set larger than 1000 to trigger the Event4. | | | | | |
| Val_4_old | Integer | Internal | Old value of Val_4. | | | | | |
| Val_5 | Integer | Internal | Set larger than 1000 for 5 more seconds to trigger the Event5. | | | | | |
| File1 | Integer | Internal | A file handles for saving phone numbers. | | | | | |
| SMS_status | Integer | Internal | 0: Sleep, 1: Busy, 21: Succeed, -1: SMS not ready, -2: Timeout | | | | | |
| SMS_Step | Integer | Internal | 1: 1st phone, 2: 2nd phone, 3: 3rd phone, Set its initial value as "1" | | | | | |
| SMS_Step2 | Integer | Internal | 0: before sending SMS, 1: sending SMS | | | | | |
| How_many_phone | Integer | Internal | Amount of cell. Phone, this demo (FAQ160A) is "1". | | | | | |
| ReTry_count | Integer | Internal | Retry count for sending short message | | | | | |
| ftp_year | Integer | Internal | Addr. = 21, for "ftp_Loader.exe". | | | | | |
| ftp_month | Integer | Internal | Addr. = 22, for "ftp_Loader.exe". | | | | | |
| ftp_day | Integer | Internal | Addr. = 23, for "ftp_Loader.exe". | | | | | |
| ftp_command | Integer | Internal | Addr. = 24, set "1" to let Soft-GRAF to send a file (then auto reset as 0). | | | | | |
| ftp_result | Integer | Internal | Addr. = 25, 1: Busy, 21: Succeed, 101: No File, 102: FTP Fail, 103: FTP Disabled. | | | | | |
| ftp_progress | Integer | Internal | Addr. = 26, the progress is 0 to 100. | | | | | |
| ReTry_Timer | Timers | Internal | Timer for Retry. Set its initial value as "T#0s". | | | | | |
| msg_01 | Messages | Internal | Alarm message 1. Set its max. length as "255". | | | | | |
| msg_02 | Messages | Internal | Alarm message 2. Set its max. length as "255". | | | | | |
| msg_03 | Messages | Internal | Alarm message 3. Set its max. length as "255". | | | | | |
| msg_04 | Messages | Internal | Alarm message 4. Set its max. length as "255". | | | | | |
| msg_05 | Messages | Internal | Alarm message 5. Set its max. length as "255". | | | | | |
| File_name1 | Messages | Internal | The file name for saving phone numbers. Set its max. length as "255". | | | | | |
| ICP DAS Co., Ltd. Technical Document | | | | | | | | |

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|--|--|--|------------------------------|----------------|--|---|---|--|--|-----------------------|--|--|
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| | | | | | Current | | ~ | | | J | | |
| Phone_number | | Messages | Interna | al | Set its ma | Current processing cell, phone number. | | | | | | |
| Phone_number: | 1 | Messages | Interna | al | Addr. = 1 In "FAQ1 button (g Set its ma | ., cell pho 60A" der g_M_Inp) ax. lengtł | one nu mo, it u)" in th h as "3 | mber, u used for e Soft-G 2". | ises your ow the "Messa GRAF Studio. | n number. ge Input | | |
| ST1 Program: | ST1 Program: | | | | | | | | | | | |
| (* operation in if INIT the | n the | 1st scan cyc | le. Pls de | eclare | e INIT to ha | ave an in | itial va | lue TRU | JE *) | | | |
| INIT := False | ⊇; | | | | | | | | | | | |
| (* Set your msg_01 := ' msg_02 := ' msg_03 := ' | <pre>(* Set your own message here, accept local language *) msg_01 := 'Event1 !' ; msg_02 := 'Event2 !' ; msg_03 := 'Event3 !' ;</pre> | | | | | | | | | | | |
| i msg_04 := i msg_05 := ' | Even | t4!; t5!; | | | | | | | | | | |
| (* Load Pho (* | one n | umber from | a file. *) | | *) | | | | | | | |
| (* file name File_name1 File1 := f_rc if File1 <> | e for s := '\ open(0 t | saving the Ce System_Disk (File_name1) then | ell. phon (\cell_ph); | e nur one.1 | , nber. for e txt' ; | example ' | '\Syste | m_Disk | \cell_phone | .txt' *) | | |
| (* open f Phone_n | ile ok umbe | < *) er1 := FM_R | EAD(File: | 1); | | | | | | | | |
| end_if ; (* | _CLO | ; | | | *) | | | | | | | |
| end_if ; | | | | | | | | | | | | |
| (* Save Phone number to File_name1 when Save_Phone is triggered *) | | | | | | | | | | | | |
| if Save_Pho | if Save_Phone then | | | | | | | | | | | |
| i Save_Phone | Save_Phone := False ; | | | | | | | | | | | |
| i i r_txist(| sts c | ppen it in wri | en ite mode | *) | | | | | | 1 | | |
| File1 := f | File1 := f_wopen(File_name1); | | | | | | | | | | | |
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                              Version
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    else
      (* file doesn't exist, create it in Read and Write mode *)
      File1 := f_creat(File_name1);
    end if;
    if File1 <> 0 then
      (* open file ok *)
      TMP := FM_WRITE(File1 , Phone_number1 ) ;
      TMP := F CLOSE(File1);
    end if;
  end if;
  (* ----- *)
  (*
  Get message sending status every scan cycle.
  Message sending status:
     0: waiting for a new sending request.
     1: busy. (message is processing now)
    21: The message is sent successfully.
    -1: SMS system is not available
    -2: Timeout, No response.
  *)
  SMS status:= SMS STS();
  (*
  If Send SMS succeed, process the next phone number.
  If send SMS fail, set this phone need retry.
  *)
  if (SMS Step2 = 1) then
                             (* 1: sending SMS ... *)
    (* SMS sending finished *)
    if (SMS status = 21) or (SMS status < 0) then
      SMS_Step2 := 0; (* reset as 0: before sending SMS *)
      if SMS status < 0 then
        (* send fail, set need-to-retry *)
        case SMS Step of
           1: (* 1st phone *)
             need retry1 := TRUE ;
        end_case;
      end if;
      (* next phone *)
      SMS Step := SMS Step + 1;
      if SMS Step > How many phone then
                              ICP DAS Co., Ltd. Technical Document
```

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         (* All phones are processed, reset as 1 *)
         SMS Step := 1;
      else
         (* still has some phone to process, trigger M5 to process the next phone *)
         M5 := True;
      end if;
  end if;
 end if;
  (* If sending Short Message fail, try again 1 minute later *)
  (*
    SMS Step: 1:1st phone, 2: 2nd phone, 3: 3rd phone ..., init as 1
    SMS Step2: 0: before sending SMS, 1: sending SMS, init as 0
  *)
  if (ReTry count < 1) then
    if (SMS Step = 1) and (SMS Step2 = 0) then
      (* some phone sends fail, need to retry *)
      if need_retry1 then
         (* start ReTry timer to tick to 1 minute *)
         ReTry timer := T#0s;
         tStart(ReTry timer);
         (* set new value to ReTry count *)
         if ReTry count < 0 then
           (* for safety *)
           ReTry count := 1;
         else
           ReTry count := ReTry count + 1;
         end if;
     end if;
    end if;
  end if;
  (* Retry it when Timer reaches 1 minute later *)
 if ReTry timer >= T#60s then
    (* trigger M5 to try again *)
    M5 := TRUE;
    tStop(ReTry timer); (* stop ticking *)
    ReTry timer := T#0s; (* reset as 0 second *)
 end_if;
  (*
  Pls refer to http://www.icpdas.com/faq/isagraf.htm > FAQ-111 for more information about SMS.
  Please set the message variable "SMS receiver" to your own cell. phone number.
```



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| 1.2. | 1.2.2. Description of the Soft-GRAF HMI Project (FAQ160A) | | | | | | | | | |
| Soft-G | Soft-GRAF Studio HMI: | | | | | | | | | |
| Page1: This page includes four HMI objects: g_Label : To show the text - "Please refer to www.icpdas.com > FAQ > software > ISaGRAF > 160". g_Label : To show the text - "FAQ160A demo. It sends Short Message to 1 phone when Event5 happens." g_Alarm : To show the alarm lists. g_ToPage : To switch to the Page2. | | | | | | | | | | |
| | Ple | ase refer to ww | w.icpdas. | com > FAQ (| > software > | ISaGRAF > 160 | | Label | | |
| | FAQ160/ | A demo. It send | ls Short Me | ssage to 1 | , phone when | Event5 happen: | ₅. ₀_ | | | |
| | | Alaı | rm History | y (23/11/ | 2012 Friday |) | | | | |
| | 2012-11-2 | 23 | | Ack | 00 🕑 00 | Expo: | rt | | | |
| | O ALL | No Ack | Ack | (more) | Ack (ALL) | Sear | ch | | | |
| | g_Alarm | | | | | | | | | |
| | Alarm amount | : 0 , Ack: 0 , | No Ack: O | | | | | | | |
| | | | Change re | ceiver num | iber g_T | oPage | | | | |
| Page This g_La g_La g_M g_B_ g_Tc | 22: page inclue bel : To s "FA bel : To s _Inp : To s _Page : To s | des five HMI ob show the text - Q160A demo. I show the text - ill out the cell. save the cell. Ph switch to the Pa | ijects: t sends Sho "Cell. phor Phone num ione numb age1. | ort Messag ne number nber. er. | e to 1 phone : " | when Event5 | happens." | | | |

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| | | | | | | | | | | |
| g_Label | FAQ160A dem | no. It sen | ds Short Messa; | ge to 1 p | phone v | vhen Eve | nt5 happens | | | |
| | Cell. phone number : 886958321630 Save New numer | | | | | | | | | |
| | | | Main | Menu | | g_ToPa | ge | g_B_Inp | | |
| If the user is not <u>http://www.icpd</u> | familiar with the as.com/faq/isag | e "Soft-GR graf.htm > | AF Studio" sof FAQ-146. | tware, pl | ease ro | efer to t | he documer | nt in the | | |
| <i>File format of the data file of the g_Alarm:</i> The data file of the "g_Alarm" can be one of the two formats. One is Excel file (.csv) and the other is Text file (.txt). The "g_Alarm" creates a new file name (.txt) in each day to save daily alarm messages. User can export data files to their USB pen drive or deliver them to a PC/FTP Server via FTP function. The file storage path is as the following. | | | | | | | | | | |
| A. For WP-8xx7 \Micro_SD\S | ' or VP-2xW7 or Soft-GRAF\g_Ala | WP-5xx7: irm\ | | | | | | | | |
| B. For XP-8xx7- \System_Dis | CE6 or XP-8xx7- k2\Soft-GRAF\g | Atom-CE6 Alarm\ | : | | | | | | | |
| The system will c For example, the | reate folders au storage path ol | itomatical the VP-25 | ly depends on 5W7 in this der | the date no is sho | (year, wn as | month) the follo | to save the owing figure | daily file. | | |
| 地址(D) \Micro_SD\Soft-GRAF\g_Alarm\2012\11 姓名 过了一次的问题,如果我们的问题,我们就能帮助你的问题。 | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | Co Itd Techn | ical Doci | iment | | - | | | |

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| Author | Janice Hong | Version | 1.0.0 | Date | Dec. 2012 | Page | 11 / 22 | | |
| <i>The setting for g_Alarm:</i> Mouse double-clicks the "g_Alarm" to open its configuration window: | | | | | | | | | |
| Alam History Ack Export g_Alarm Mouse double-clicks here. | | | | | | | | | |
| r, tlorr | Alarm amount: 0 , Ad | :K: O No Ac | ж 0 | | 1 | | | | |
| Setting - 1 Sett Bool NetWork Size W Location Fore Color Back Color Title | ing - 2 Setting - 3 Address 11 617 H 318 7 Y 79 Alarm History on when click ack but | Setting - 4 S Ack Te: Alert Te Export Alarm am NoAck Ack More ton Alarm a | Setting - 5 xt Ack ext Alert Text Export ount Text Alarm an Text No Ack text Ack(more) live 1 more | nount | When alarm h "g_Alarm" wi Boolean varia Addr. 11 in th When user cli for this alarm the pop-up w will be reset a | happens, the ill set the ISa ble ("Alarm is demo) as ck on "ACK" message or indow, this is FALSE". | e GRAF _bit", "TRUE". button close variable | | |
| | | | larm etting - 1 Setting - Close text Close Search text Search Keyword text Key Clear text Clear Encoding UTF-8 Date format 31/1 | 2 Setting - | 3 Setting - 4 Se Alam Stop Beep Export V Are you | etting - 5 n beep Text Stop Beep Varning Message sure to export th | beeps : e alarm hi | | |
| | | | Co. Itd Tacha | ical Doc: | iment | | | | |
| ICP DAS Co., Ltd. Technical Document | | | | | | | | | |

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1.3. Testing Demo Programs

The section shows the way to test these three demo programs (FAQ160, FAQ160A and FAQ160B). First, download the ISaGRAF program and the related Soft-GRAF project to the ISaGRAF PAC. If the user is not familiar with the operations, please refer to <u>FAQ-156</u>, section 1.5.2 and 1.5.3 to download the program. Then, confirms the hardware configuration in the following figure.

1.3.1. Install the Hardware

As the figure, the testing environment is used for this demo. You may install devices according to your actual situation.



Note: The ISaGRAF demo programs "FAQ160A" and "FAQ160B" (except the "FAQ160") require user to install an optional I-8212W-3GWA (Industrial Tri-band 3G module) in the PAC with a registered SIM card from the Telecom company..

Here we plug one I-8212W-3GWA in the first slot (Slot0) of the VP-25W7 in this demo. To make the I-8212W-3GWA work in the PAC, follow below steps to setup it first.

1.3.2. Setup the I-8212W-3GWA Module in the PAC

- 1. Execute the "ViewPAC Utility" and click the "Multi-serial port wizard" tab.
- 2. Click the "Slot scan (Refresh)" button.
- 3. Check the "USE MSA/MSBx". (Check only this option).
- 4. Click the "Set" button and then click "File > Save and Reboot" to complete the setting.

(As the following figure)

| hor | | | | | - | | _ | 4 |
|---|---|--|---|--|------------|--|--|-----------|
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| _ | | | | | | | | - |
| Vie | wPAC Utility [2. | 0.2.6] | | | | | | |
| File | Help Configura | ation | | | | 1. | | |
| Eth | ernet Setting Network | Setting Syst | em Information | Auto Execution | n Multi-s | erial port | wizard Key 🔳 | • |
| | | | - 🔅 Slot0 | | | | Driver on-blod | |
| | lot 1: | | ₩ MSA1 | | | | | |
| | | | | | | | Driver disabled | |
| | | | | | | | | |
| 5 | lot 3: | | | | | | | |
| S | lot 4: | | | | | | | |
| s | lot 5: | | | | | | | |
| s | lot 6: | In | stall driver | (Apply to I-8112 | 2/8114/814 | 2/8144 serie | es modules) | |
| s | lot 7: | St | ep1: 4. — | Set 🛋 | USE I | MSA/MSB> | 3. | |
| | | St. | ep2: Go to "Fi | le">"Save an | d Reboot | COMX " to enable | driver | |
| Slot scan (Refresh) 2. | | | | | | | | |
| | Slot scan (Refresh) | 2. | · · · · · | | | | | |
| new added | COM Port is as t | 2. the following | ng table afte | er setting up | o the I- | 8212W | -3GWA succe | essfully. |
| new added | COM Port is as t | 2. the followin | ng table afte I-8212W | er setting up - 3GWA | o the I- | 8212W Added | -3GWA succe COM Port | essfully. |
| new added | COM Port is as t GAGRAF PAC P-25W7/23W7 | 2. the followin | ng table afte I-8212W The 1 st slo | er setting up - 3GWA t (Slot 0) | o the I- | 8212W Added | -3GWA succe COM Port OM5 | essfully. |
| new added | COM Port is as t GAGRAF PAC P-25W7/23W7 /P-8xx7 | 2. the following | ng table afte I-8212W The 1 st slo | er setting up - 3GWA t (Slot 0) | o the I- | 8212W Added C | -3GWA succe COM Port OM5 | essfully. |
| new added | COM Port is as t GAGRAF PAC P-25W7/23W7 /P-8xx7 P-8xx7-CE6 | 2. the following | ng table afte I- 8212W The 1 st slo The 1 st slo | er setting up - 3GWA t (Slot 0) t (Slot 1) | o the I- | 8212W Added C | -3GWA succe COM Port OM5 OM6 | essfully. |
| new added IS V M XI XI | COM Port is as t GaGRAF PAC P-25W7/23W7 /P-8xx7 P-8xx7-CE6 P-8xx7-Atom-CE6 | 2. the followin | ng table afte I- 8212W The 1 st slo The 1 st slo | er setting up - 3GWA t (Slot 0) t (Slot 1) | o the I- | 8212W Added C | -3GWA succe COM Port OM5 OM6 | essfully. |
| new added IS V M XI Se use the | COM Port is as t GaGRAF PAC P-25W7/23W7 /P-8xx7 P-8xx7-CE6 P-8xx7-Atom-CE6 | 2. the followin | ng table afte I-8212W The 1 st slo The 1 st slo AC is WP-51 | er setting up - 3GWA t (Slot 0) t (Slot 1) .47 (There is | o the I- | 8212W Added C C slot to | -3GWA succe <u>COM Port</u> OM5 OM6 plug the I-82 | essfully. |
| new added IS V M XI Se use the T | COM Port is as t GAGRAF PAC P-25W7/23W7 /P-8xx7 P-8xx7-CE6 P-8xx7-Atom-CE6 #GTM-201-RS232 | 2. the followin | ng table afte I-8212W The 1 st slo The 1 st slo AC is WP-51 GTM-201 | er setting up - 3GWA t (Slot 0) t (Slot 1) .47 (There is - RS232 | o the I- | 8212W Added C C slot to | -3GWA succe COM Port OM5 OM6 plug the I-82 ort Number | essfully. |
| new added IS V M XI X Se use the T | COM Port is as t GAGRAF PAC P-25W7/23W7 /P-8xx7 P-8xx7-CE6 P-8xx7-Atom-CE6 %GTM-201-RS232 GAGRAF PAC /P-5147 | 2. the followin | ng table after I-8212W The 1 st slo The 1 st slo AC is WP-51 GTM-201 RS-232 | er setting up - 3GWA t (Slot 0) t (Slot 1) .47 (There is RS232 . Port | s no IO | 8212W Added C C slot to COM PC | -3GWA succe COM Port OM5 OM6 plug the I-82 ort Number OM3 | essfully. |
| new added IS V M XI Se use the | COM Port is as t GaGRAF PAC P-25W7/23W7 /P-8xx7 P-8xx7-CE6 P-8xx7-Atom-CE6 "GTM-201-RS232 GaGRAF PAC /P-5147 | 2. the following | ng table afte I-8212W The 1 st slo The 1 st slo AC is WP-51 GTM-201 RS-232 | er setting up - 3GWA t (Slot 0) t (Slot 1) .47 (There is RS232 . Port | s no IO | 8212W Added C C slot to COM Pc C | -3GWA succe COM Port OM5 OM6 plug the I-82 ort Number OM3 | essfully. |
| new added IS V M XI Se use the | COM Port is as t GaGRAF PAC P-25W7/23W7 /P-8xx7 P-8xx7-CE6 P-8xx7-Atom-CE6 "GTM-201-RS232 GaGRAF PAC /P-5147 correct and the 2 be "TRUE". | 2. the following 5 2" if your P 2G/3G sign | ng table after I-8212W The 1 st slo The 1 st slo AC is WP-51 GTM-201 RS-232 al is well, th | er setting up - 3GWA t (Slot 0) t (Slot 1) .47 (There is RS232 . Port e "sms" sta | o the I- | 8212W Added C C slot to C COM PC C C C C C C C C C C C C C C C C C C | -3GWA succe COM Port OM5 OM6 plug the I-82 ort Number OM3 GRAF - "I/O C | essfully. |
| new added IS V M XI Se use the IS dow should | COM Port is as t GAGRAF PAC P-25W7/23W7 /P-8xx7 P-8xx7-CE6 P-8xx7-Atom-CE6 "GTM-201-RS232 GAGRAF PAC /P-5147 correct and the 2 be "TRUE". | 2. the followin 5 2" if your P 2G/3G sign | ng table after I-8212W The 1 st slo The 1 st slo AC is WP-51 GTM-201 RS-232 al is well, the n | er setting up - 3GWA t (Slot 0) t (Slot 1) .47 (There is RS232 . Port e "sms" sta | o the I- | 8212W Added C C slot to COM Pc C the ISaG | -3GWA succe COM Port OM5 OM6 plug the I-82 ort Number OM3 GRAF - "I/O C | essfully. |

1 SMS_available=TRUE (* 1st Channel in IO connection > SMS *)

To send the SMS well, this value must be "TRUE".

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🖪 📼 Status

9 🚥 soft_grf

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1.3.3. Testing the Demo – FAQ160

Please make sure you have downloaded the ISaGRAF demo (FAQ160) and Soft-GRAF demo (FAQ160.sof) to the PAC. After downloading, you can modify the variable status or value in the ISaGRAF variables list on PC and then to see the change of the Soft-GRAF HMI in the PAC.

For example, the Soft-GRAF HMI will show alarm message "Event1 !" when setting the "Event1" value from "FALSE" to "TRUE".

| 😭 ISaGRAF - H | FAO160:LIST1 - | List of variables | | | |
|------------------|----------------|----------------------|-------------------------|---------------------------|-------------|
| File Edit Option | ns Help | | | | |
| B B 🔒 🛸 | | | | | |
| Jame | Value | Comment | | | |
| larm bit | FALSE | addr. = 11 | 1 | | |
| vent1 | TRUE | Set True f | to triger an Alarm with | out pop-up dialog | |
| vent2 | FALSE | | m with | a pop-up dialog | |
| vent3 | FALSE | ite doolean variable | r 5 sec | conds) to triger an Alarm | |
| /al_4 | 0 | | iger ev | ent4 | |
| 'al_5 | 0 | variable Event1 | 5 more | seconds to triger Event5 | |
| 15g_01 | Event1 ! | | | | |
| isy_02 neg 03 | Event2 ! | 0 FALSE TRU | UE 📐 1 | | |
| nsg_00 nsg_04 | Event4 | | | | |
| nsq 05 | Event5 ! | Lock <u>U</u> nlock | Cancel | | |
| end of list> | - | I | | | |
| | | | | |] |
| | Alarm | History (26/11/2 | 2012 ∎onday) | | |
| 010 11 02 | | L | 00 . 11 . | | |
| 012-11-26 | | Ack | 100 📓 111 📓 | Export | |
| | | | | | |
|)ALL ONO | Аск | Ack(more) | Ack (ALL) | Search | |
| 0011 26/1 | 1/2012 16.4 | 8-04 | | | |
| E | vent1 | 0.04, | | | |
| UUIU. 26/1 | 1/2012 16:4 | 5:44. (Ack: 26/1 | 1/2012 16:47: | 51) | |
| E | vent1 ! | | | | |
| 0009, 26/1 | 1/2012 16:3 | 4:32, (Ack: 26/1 | 1/2012 16:45: | 20) 📃 | |
| E | vent1 ! | | | > | |
| 0008, 26/1 | 1/2012 12:4 | 0:15, (Ack: 26/1 | 1/2012 16:45: | 20) | |
| 0007 PC (1 | vent2 ! | 0.4E (A.L. 00/1 | 1/0010 16.45.4 | 90) | |
| 0007, 26/1 | 1/2012 12:3 | 8:45, (Ack: 26/1 | 1/2012 16:45:3 | 20) | |
| E | vento : | | Amount of | un Ack mossagos | Voumau |
| | | | Amount of | un-ACK messages | . Tou may |
| | 1.1.10 | | click "Ack" o | or "Ack (ALL)" but | tton on the |
| arm amount: 11 | , ACK: IU , N | ACK: 1 | PAC to conf | irm them | |
| | | | | | |
| oro | | | | | |

You can try more:

| Variables | Description of Operation |
|-----------|--|
| Event1 | Set to True, it will show an alarm message "Event1 !". |
| Event2 | Set to True, it will show an alarm message "Event2 !" and pop-up the alert dialog. |
| Event3 | Set to True and holds at TRUE for five more seconds, it will show an alarm message "Event3 !" and pop-up the alert dialog. |
| Val_4 | Set larger than "1000", it will show an alarm message "Event4 !" and pop-up the alert dialog. |
| Val_5 | Set larger than "1000" and holds on it for five more seconds, it will show an alarm message "Event5!" and pop-up the alert dialog. |
| | · |
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| 1.3.4. Те | esting the Demo – FA | Q160A | | | | _ | | |
| Please make sure the ISaGRAF demo (FAQ160 A) and Soft-GRAF demo (FAQ160 A .sof) have been downloaded to the PAC. This section will explain how to send a short message to one cellular phone. First, please click "Change receiver number" button in the Soft-GRAF HMI to set the phone number. | | | | | | | | |
| | Please refer to ww | w.icpdas.co | m > FAQ (| > softwa | mre > ISa | GRAF > 1 | .60 | |
| | FAQ160A demo. It send | s Short Mess | sage to 1 | l phone | when Eve | nt5 happ | ens . | |
| | Alar | n History | (27/11/2 | 012 Tu | esday) | | | |
| 2 | 012-11-27 | Acl | ĸ | 00 🖌 | 00 👱 | Ex | port | |
| C |)ALL ONO Ack | Ack (m | ore) | Ack | (ALL) | Se | arch | |
| | | | | | | | | |
| Al | arm amount: O , Ack: O , | No Ack: O | | | | | | |
| | | Change rece | eiver num | ber 🔨 | <u>.</u> | | | |
| The phone numb as an example. F clicks "Save New | per varies in different or instance, if the pho number" to save the | countries o one number settings the | r region is "093 en click | s, here 5-123-1 "Main N | we use ⁻ L23", fills Menu" to | Taiwan' s out " 8 o return | s cellular pho 86 93512312 I the main pa | one number 3" and then age. |
| FAQ160A | demo. It sends Short | : Message t | o 1 phor | ne when | Event5 | happens | | |
| Cell. pho | one number : | 8869351231 Main Menu board. | 23 2. 8869351 Er Panel Tyj | 23123 nter 碑: 键盘 | Save Nes Clea | v number | 3. 5.67890 r t y u i o f g h j k i y b n m , i | |
| | | | | | <u>[Cu]</u> | au <u> \</u> | 1¥ | |
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In the "FAQ160A" demo, when the "Event5" is triggered, it will send a short message to one cellular phone. So, please set the "Val_5" larger than "1000" (e.g. "5555") in the ISaGRAF variables list, then the cellular phone will receive the alarm message "Event5 happens !" after five seconds. If user set the "Val_5" larger than "1000" and then change the value to less than "1000" within five seconds, the "Event5" will not be triggered.



Now, you will see the pop-up window in the Soft-GRAF HMI. Try to click the "Ack" button to confirm this alarm message and then click "Close" to close the pop-up window.

| Ala | Alert |
|----------------------------|-----------------------------|
| 2012-11-27 | +0001, 27/11/2012 11:20:51, |
| • ALL • No Ack | Event5 ! |
| *0001, 27/11/2012 1: | *0001, 27/11/2012 11:20:51, |
| Event5 ! | Event5 ! |
| Alarm amount: 1 , Ack: 0 , | Stop Beep Ack 🔨 Ack (ALL) |
| | Close |

| Classification IsaGRAF FAQ-100 Author Janice Hong Version 1.0.0 Date Dec. 2012 Page 17 / 22 1.3.5. Testing the Demo – FAQ160B Please make sure the ISaGRAF demo (FAQ160B) and Soft-GRAF demo (FAQ160B.sof) have been downloaded to the PAC. This section will explain how to send a short message to max. 5 cellular phones. First, please click "Change phone number" button in the Soft-GRAF HMI to enter its configuration page. Please refer to www.icpdas.com > FAQ > software > ISaGRAF > 160 FAQ160B demo. It sends Short Message to max. 5 cell. phone when Event5 happens Alarm History (27/11/2012 Tuesday) |
|--|
| Indition Date Date |
| 1.3.5. Testing the Demo - FAQ160B Please make sure the ISaGRAF demo (FAQ160B) and Soft-GRAF demo (FAQ160B.sof) have been downloaded to the PAC. This section will explain how to send a short message to max. 5 cellular phones. First, please click "Change phone number" button in the Soft-GRAF HMI to enter its configuration page. Please refer to www.icpdas.com > FAQ > software > ISaGRAF > 160 FAQ160B demo. It sends Short Message to max. 5 cell. phone when Event5 happens Alarm History (27/11/2012 Tuesday) |
| Please make sure the ISaGRAF demo (FAQ160B) and Soft-GRAF demo (FAQ160B.sof) have been downloaded to the PAC. This section will explain how to send a short message to max. 5 cellular phones. First, please click "Change phone number" button in the Soft-GRAF HMI to enter its configuration page. Please refer to www.icpdas.com > FAQ > software > ISaGRAF > 160 FAQ160B demo. It sends Short Message to max. 5 cell. phone when Event5 happens Alarm History (27/11/2012 Tuesday) |
| Gowhloaded to the PAC. This section will explain now to send a short message to max. 5 cellular phones. First, please click "Change phone number" button in the Soft-GRAF HMI to enter its configuration page. Please refer to www.icpdas.com > FAQ > software > ISaGRAF > 160 FAQ160B demo. It sends Short Message to max. 5 cell. phone when Event5 happens Alarm History (27/11/2012 Tuesday) |
| Please refer to www.icpdas.com > FAQ > software > ISaGRAF > 160 FAQ160B demo. It sends Short Message to max. 5 cell. phone when Event5 happens Alarm History (27/11/2012 Tuesday) |
| Please refer to www.icpdas.com > FAQ > software > ISaGRAF > 160 FAQ160B demo. It sends Short Message to max. 5 cell. phone when Event5 happens Alarm History (27/11/2012 Tuesday) |
| FAQ160B demo. It sends Short Message to max. 5 cell. phone when Event5 happens Alarm History (27/11/2012 Tuesday) |
| Alarm History (2//11/2012 Tuesday) |
| |
| 2012-11-27 Ack 00 00 Export |
| ALL O No Ack Ack(more) Ack (ALL) Search |
| |
| |
| |
| |
| |
| < |
| Alarm amount: 0, Ack: 0, No Ack: 0 |
| Change phone number |
| |
| Then, fill out the amount of cellular phones (e.g. 3) and then fill out the phone number by order (here, we use Taiwan's phone number as an example, e.g. 886 935123123), then click "Save New number" to |
| save the settings and click "Main Menu" to return the main page. |
| FA0160R demo. It sends Short Message to max 5 cell phone when Event5 hannens |
| Freebood demo. It series bioit message to max. S cerr. profile when Events happens |
| How many phone number to send short message to ? |
| |
| Cell. phone number : 3. |
| 1: 886935123123 |
| |
| 886935123123 Save New number |
| Enter Clear Exit |
| Panel Type : |
| Select a proper 键盘 LargeKB 54 |
| keyboard. 拼音输入 插入 面板 5. 5. 5. 6. 7. 8. 9. 0 = ◆ 5. 5. 6. 7. 8. 9. 0 = ◆ 5. 6. 7. 8. 9. 0 = ◆ 5. 6. 7. 8. 9. 0 = ◆ 5. 6. 7. 8. 9. 0 = • 5. 6. 7. 8. 9. 0 = • 5. 6. 7. 8. 9. 0 = • 5. 6. 7. 8. 9. 0 = • 5. 6. 7. 8. 9. 0 = • 5. 6. 7. 8. 9. 0 = • 5. 7. 8. 9. 0 = • 7. 7. 8. 9. 0 = • 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. |
| Tabiqiwieiritiyiliopiii CAPlasiditionikii: CAPlasiditionikii: CAPlasiditionikii: |
| Ctt]áü]`]\] ↓]↑[←]→ |
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In the "FAQ160B" demo, when the "Event5" is triggered, it will send a short message to three cellular phones. So, please set the "Val_5" larger than "1000" (e.g. "9999") in the ISaGRAF variables list, then the cellular phone will receive the alarm message "Event5 happens !" after five seconds. If user set the "Val_5" larger than "1000" and then change the value to less than "1000" within five seconds, the "Event5" will not be triggered.



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| 1.4. Enable the FTP Client to Send Data File of the g_Alarm to the FTP Server | | | | | | | | |
| For sending the o g_Alarm, please o DONOT use the " "/" are incorrect. | laily data file to do the following /" symbol. For e g_Alarm Setting - 1 V Enab Transmis FTP Serv Port NO. V User Password | another P setting. E example, t Setting - 2 le Ftp sion Type F ver IP 192.168 21 name User | C (enabled FTP Be aware of the he "\Server01' Setting 3 Setting Ethemet I H 3.1.206 H H | Server) setting of and "\" - 4 Setting - ile format our to send our 1 1 our 2 2 our 3 0 | by enabling th of "FTP Directo are correct. H | e FTP Client ory", use the owever "/ So | function of "\" symbol, erver01" and | |
| | Password FTP Dire | tory Serve | erO1 (ex : \macl | hine2) | | | | |
| | | | | Ok | Cancel | | | |
| Moreover, users send data file to | can check the "l the second FTP : | Enable Ftr Server. | o 2" (in the tab | "Setting | - 4") and set t | he related pa | arameters to | |
| Note: The "Enabl | e Ftp2" doesn't | work if th | e first "Enable | Ftp" (in t | he tab "Settin | g - 3") is not | checked. | |
| | g_Alarm Setting - 1 Setting - 1 FTP Serve Port NO. Vuser n Password FTP Direc | Setting - 2 Ftp 2 r IP 192.168. 21 ame raven_ ***** tory \FTP | Setting - 3 Setting - 1.161 liu | 2 Setting - ine2) | 5 Cancel | | | |
| Note: 1. When set the hour, not on | eg_Alarm - Hour the hour. For ex | 1 ~ 3, it w ample, se | vill send files to t the "Hour1" a | the FTP 5 as "08:00 | Server at abou ", it starts to s | ut three minu end files at ' | utes past the '08:03". | |

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- 2. The FTP Client function of g_Alarm has a re-try mechanism. When the file is unable to be successfully passed to the FTP Server, it will re-try to send every 4 hours until it succeeds or expire 7-days.
- 3. The "FTP Server IP" means the IP address of the PC which will receive the data file. If the PC is not in the same IP domain as the PAC, set a proper "Default Gateway" setting for the LAN port of the PAC. (You may find the Gateway-IP-address by key-in the "ipconfig" command on the PC which is connected in the same IP domain of the PAC).

. _..

| | | | | | | | <u>Eile E</u> dit | View | Advanced |
|---|-----------|-----------------------------|---------------------|---|---------------------|--------------|-------------------|------|----------|
| ✓ Settings ✓ Control Panel | | | | 3 | Ø] | | | | |
| | | o Connectiv | | Make | LAN1 | | | | |
| 🖾 Run 🛛 🛃 Taskbar and Start M | | | 1enu | • | New Co | | ♥ | | |
| | 3 | 'LAN1 | Fast | Ethernet Adapter | Settings | | | ок 🕨 | |
| | | IP Add | dress | Name Servers | | | | | |
| | | An IP address can be | | | <u>O</u> btain a | n IP add | ress via DHCP | | |
| automatically assigned to this computer. If your network | | | O Specify a | | | | | | |
| | | does IP ad | not a dress | utomatically assign es, ask your network | IP <u>A</u> ddress: | | 192.168.1. | 181 | |
| admi | | ninistrator for an address, | | S <u>u</u> bnet Mas | k: | 255.255.255. | 0 | | |
| | provided. | | Default <u>G</u> at | eway: | 192.168.1. | 1 | | | |
| | | | | | | | | | |

To send data file to a remote PC/FTP Server by 2G/3G dial-up wireless connection, set the "Transmission Type" as "2G/3G Wireless". And this PAC requires a 2G/3G I/O module and a SIM card. (For example, the I-8212W-3GWA : <u>http://m2m.icpdas.com/i-8212w-3GWA.html</u>). Then follow steps listed in the section 1.1 and section 1.2 of the web site <u>http://www.icpdas.com/faq/isagraf.htm</u> > FAQ-143 to setup the 2G/3G I/O module.

| | | File formet | |
|----------------|--------------------|--------------|-----------|
| Enable Ptp | · | THE IOIMAL | .CSV 💌 |
| Transmission T | ype 2G/3G Wirele 🙀 | Hour to send | d |
| FTP Server IP | 192.168.1.206 | Hour1 | 16:00 |
| Port NO. 21 | | Hour2 | 20:00 |
| 🔽 User name | User | Hour3 | 00:00 🔽 |
| Password | *** | | |
| FTP Directory | VServer01 (ex : \m | achine2) | |
| | | | Ok Cancel |

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1.5. Using the "FTP_Loader" to Upload the Data File of a Specified Date

The "faq160_demo_chinese.zip" includes a utility "FTP_Loader.exe". It can run in a PC/Windows. Its purpose is to command the g_Alarm to send the data file of a specified date to the PC/FTP Server. To use this function, first add six integer variables with six continuous network-address numbers in the ISaGRAF program similar as the following figure (It shows their network number are from 21 to 26, Hex. is 15, 16, ... to 1A).

| 💊 ISaGRAF - FAQ1 | 58 - Global int | te gers/rea | ls _ 🗆 🗴 | | | | | |
|--|---------------------|--------------------|---|--|--|--|--|--|
| <u>File Edit Tools Options H</u> elp | | | | | | | | |
| | 🚔 🕓 🕓 🌔 | 9 🖷 🛛 | 🔀 🖬 🔏 📉 📇 | | | | | |
| Peological Interensing Page 1 Interest Macagana EB Instances Defined words | | | | | | | | |
| Booleans Integers/ite | Attrib | sages FE Addr | Comment | | | | | |
| minute1 | linternal integer1 | Addir. 0000 | Comment | | | | | |
| ninute i | [internal,integer] | 0000 | _ | | | | | |
| Secondi | [internation] | 0000 | | | | | | |
| 1 | linternal reall | 0004 | // Value of Curve 1, set addr = 1 | | | | | |
| VI 2 | [internal,real] | 0001 | Value of Curve 2, set addr. = 3 | | | | | |
| V2 2 | [internal, cal] | 0005 | Value of Curve 3, set addr 5 | | | | | |
| 4 3 | [internation] | 0000 | Value of Curve 5, set addr. = 5 | | | | | |
| CNT1 | [internal integer] | 0000 | // for simulating Sin and Cos ourve | | | | | |
| CINT I guala 1 | [internal,integer] | 0000 | for simulating Sin and Cos ourve | | | | | |
| | [internal,integer] | 0000 | for simulating Sin and Cos ourve | | | | | |
| eı | [internal,real] | 0000 | nor sinulaung sin and cos curve | | | | | |
| 4 | [internal integer] | 0015 | // oddr =01 | | | | | |
| πp_year | [internal,integer] | 0015 | adur.=21 | | | | | |
| ttp_montn | [internal,integer] | 0010 | adur.=22 | | | | | |
| пр_аау | [internal,integer] | 0017 | auur.=23 Set 4 to let Sett OB#E to condio file (then outo veget or | | | | | |
| πp_command | linternal, integerj | 0010 | Set 1 to let Solt-GRAP to serio a file (trief) auto reset as | | | | | |
| πp_resuit | [internal,integer] | 0019 | 0 | | | | | |
| πp_progress | [internal,integer] | OUTA | v ~ roo means progressis v ~ roo | | | | | |
| | | I | <u>n</u> | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Then do the following settings in the "g_Alarm".

Note: This function doesn't work if the "Enable Ftp" option (in the tab "Setting - 3) is unchecked.

| g_Alarm |
|--|
| Setting - 1 Setting - 2 Setting - 3 Setting - 4 Setting - 5 Progress Address 26 Year Address 21 Month Address 22 Day Address 23 Command Address 24 Result Address 25 |
| Ok Cancel |
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| [| | | | | 1 | | | |
|---|--|-------------------------------------|--|---------------|-----------------|--|--|--|
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| Then, run the "FTP_Loader.exe | " in a PC to do the " | Address Setti | ng". | | | | | |
| FTP Loader | | 3 | | | | | | |
| This Utility is for loading t | ne data file of the | | | | | | | |
| Soft-GRAF g_Alarm or g_ ISaGRAF PAC to the ftp s | Logger from the erver. | | | | | | | |
| | | | | | | | | |
| the "Load " button. | e date to load , then click | | | | | | | |
| Year: Mon | h: Dav: 🚩 | Select t | he date of the of the of the of the of the of the official sectors and the official sectors and the official sectors and the official sectors are official sectors and the official sectors are offici | data ad. | | | | |
| 2012 11 | ▼ 27 ▼ | | <u> </u> | | | | | |
| | Address Setting | | | | | | | |
| Status | i Form2 | | | | X | | | |
| | Ftp-Year address | 21 | Ftp command addre | ess 24 | _ | | | |
| | | | | | | | | |
| | Ftp-Month address | 22 | Ftp result address | 25 | | | | |
| that defined in this | Ftp-day address | 23 | Ftp progress addres | ss 26 | - | | | |
| demo, and then input | PAC Net-ID | 1 | | | | | | |
| the PACIF. | PAC IP Address | 192 168 | 1 181 | Set | iting 🔨 | | | |
| | | • | • • • • | JBa | ick | | | |
| After completing the setting, pl | ease click "Load" b | utton to uploa | d the data file | of the specif | fied date (e.g. | | | |
| 2012/11/27) to the PC/Server. | If the file uploaded | successfully, i | t will show as tl | he below fig | ure. | | | |
| | 🗟 FTP Loader | | | | | | | |
| | This Utility is for loa | ding the data file | ofthe | | | | | |
| | Soft-GRAF g_Alarn | n or g_Logger fro ie ftp server. | m the | | | | | |
| | | | | | | | | |
| | Please select the d the "Load " button. | ata file date to lo | oad , then click | | | | | |
| | Year: | Month : | Day: | | | | | |
| | 2012 - | 11 💌 | 27 💌 | | | | | |
| | Chakur - Einerstein | | Address Setting | | | | | |

Load 📕