

uWin Simple SCADA Getting Started Manual

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Overview

uWin Simple SCADA is a PC-based SCADA software which runs on a PC running Windows 7 or Windows XP operating system. The screens for uWin Simple SCADA Runtime are designed using uWin Simple SCADA Development. Designed screens are then downloaded to the PC running uWin Simple SCADA Runtime. (Development and Runtime may be on the same computer.)

Installation Requirements

A PC running Windows 7 or Windows XP operating system with 77 MB Space. USB Port to plug in the license to run uWin Simple SCADA Runtime. uWin Simple SCADA Development Version 1.3 or higher is required for screen designs.

Installation

uWin Simple SCADA Runtime is distributed as a single install file. To install uWinSS-Runtime, run the installation file and follow on screen instructions.

WinSS-Runtime i.14.42 Se	etup) (🥵 uWinSS-Runtime i.14.42 Setu	up	
	Welcome to the u i.14.42 Setup Wi	uWinSS-Runtime zard		Choose Install Location Choose the folder in which to ins	stall uWinSS-Runtime i.14.42.	uWin SS
	This wizard will guide you th uWinSS-Runtime i.14.42.	nrough the installation of		Setup will install uWinSS-Runtim folder, click Browse and select a	ne i.14.42 in the following folder. To nother folder. Click Install to start the	install in a different e installation.
	It is recommended that you before starting Setup. This w relevant system files without computer.	close all other applications will make it possible to update t having to reboot your				
	Click Next to continue.	uWinSS-Runtime i.14.42 Set	tup	Destination Folder		
		License Agreement Please review the license terms	s before installing uWinSS-Rui	C:\Program Files (x86)\Utico	or\uWinSS-Runtime\	Browse
		Press Page Down to see the re	st of the agreement.	Space required: 76.3MB Space available: 577.2GB		
		Autotech Technologies, L.P.		Nullsoft Install System v2.46		
		Electronic End User License Ag	reement		< Back In:	stall Cancel
L		YOU ACCEPT ALL THE TERMS	CONTRACT. BY INDICATING Y AND CONDITIONS OF THIS AC			
		NOT AGREE WITH THE TERMS WHERE INSTRUCTED, AND YO SOFTWARE.	AND CONDITIONS OF THIS AC U WILL NOT BE ABLE TO INST/	GREEMENT, DECLINE ALL AND USE THE		
		Carefully read all the terms an	d conditions of this agreement	prior to installing Uticor 👻		
		If you accept the terms of the a agreement to install uWinSS-R	greement, click I Agree to con untime i.14.42.	tinue. You must accept the		
		Nullsoft Install System v2.46				
			< Back	I Agree Cancel		



Designing Screens

uWin Simple SCADA Development version 1.3 or higher is required to design screens for uWin Simple SCADA.

- 1. Launch the uWin Simple SCADA Development.
- 2. Click on the "Edit Offline ... " button
- 2. Fill in the project name (change the Project location through *Browse* if necessary).
- 4. Set the resolution (screen size).
- 5. Select appropriate PLC protocol, and set the communication parameters for the protocol selected.

Project Information	
uWinSS-Developme	ent Programming Software Version 1.3.31
Simple Scada Development Ver	rsion
www.AVGAutomation.net	
SELECT ACTION	Selected Action : Edit OFF-LINE Write Later ENTER PROJECT INFORMATION
Edit Program	Project Location : \\Avgapp1\Profiles\ Browse
OFF-LINE (Write to Panel Later)	Project Name : test.uss
	Select Size
Read Program from Panel and Edit OFF-LINE	Resolution Width Height VGA (640x480) ▼ 640 × 480
	PLC1
Edit Program ON-LINE	PLC Manufacturer: PLC Model and Protocol : Ethernet Drivers Uticor PLC TCP/IP - Rev e View/Edit PLC Com Setup
PC to Panel Connection	
C Serial	PLC2
Local Host (127.0.0.1 / 10001)	PLC Manufacturer: PLC Model and Protocol : View/Edit PLC Com Setup
C Ethernet	
Modem	
	Ok Help License Setup Clear Exit

Running the uWin Simple SCADA Runtime

Installation of uWinSS-Runtime places an icon on the desktop. Click the icon or run uWinSS-Runtime from Program menu.

After a brief appearance of splash screen, following dialog box appears:



Clicking this box will launch the Application Setup dialog box (see page 7 for details)

If above dialog box is not clicked, the application continues to load and brings up run-window as shown below indicating that there is no user project (screens) to display:



Now we need to "download" user project designed for the uWinSS-Runtime using uWinSS-Development.

Transferring Project to uWinSS-Runtime

Once you have uWinSS-Runtime running, the next step is to transfer the project to the uWinSS-Runtime. Follow below given steps:

- 1. Launch uWinSS-Development.
- 2. Open your project.
- 3. If the uWinSS-Runtime and uWinSS-Development are running on the same computer, then you can use local host address (127.0.0.1). Otherwise, select Ethernet as Panel to PC connection.

PC to Panel Connection
🔘 Serial
Local Host (127.0.0.1 / 10001)
Ethernet
🔘 Ethernet (EzEther)
🔘 Modem

4. If the uWinSS-Runtime and uWinSS-Development are not running on the same computer then in the "Specify IP/Port" dialog box, enter the IP address of the PC running uWinSS-Runtime. (This can also be done from Transfer to Panel Dialog box).

Project Information	
uWinSS-Developmen	t Programming Software Version 1.3.31
Simple Scada Development Vers	ion
www.AVGAutomation.net	
	Selected Action : Edit OFF-LINE Write Later
SELECT ACTION	ENTER PROJECT INFORMATION
Edit Dragram	Project Location : \\Avgapp1\Profiles\ Browse
OFF-LINE (Write to Panel Later)	Project Name : testuss -
	Select Size
Read Program from Panel and Edit OFF-LINE	ResolutionWidthHeightVGA (640x480)•640×480
Edit Program ON-LINE	PLC 1 PLC Specify IP/Port View/Edit PLC Com Setup
PC to Panel Connection	IP Address 127 . 0 . 0 . 1 Domain Name
Local Host	PLC 2 Port Number 10001 Default Port Number - 10001
Ethernet	OK Cancel
Modem Specify IP/Port	Select Ethernet. Click on Specify IP/Port.
	If on the same PC use 127.0.01 or the

5. Click OK to close the main dialog box

6. To transfer the project, select "File > Transfer to panel" menu and follow the instructions on the dialog box. You may select PC-Panel connection in this dialog box, and modify the IP address without going back to the opening dialog box. See below:

	Transfer Program to Panel
	Project Information
	Project Title \\Avgapp1\Profiles\testuss
	Panel Type UWinSS Runtime
	PLC Type and Protocol Ethernet Drivers Uticor PLC TCP/IP - Rev e [Driver - Uticor_UticorPLC_TCPIP[A].plc]
	PLC 2 Type and Protocol
	Panel Information Total Memory Bytes Firmw Revis. OIP Address 127 . 0 . 0 . 1 Not Connected
PC car thi	C to Panel connection n also be configured in is screen.
	CAUTION Pressing Start will OVERWRITE program already in the panel. If you do not want to lose program in the panel, press Cancel, and first Read program from Panel and save it on your PC.
	Go Online after writing the project to Panel Specify IP/Port Start Cancel Help

7. When ready to proceed, click Start to transfer the project.

Configuring uWinSS-Runtime

Once you download a user project, the uWinSS-Runtime saves the downloaded project under the same name as that of the original project file, but with extension .img. For example, if your project was named Test.uss, the uWinSS-Runtime would save the project as Test.img.

You can set up the uWinSS-Runtime so that it can load a project file automatically on application start up. To do so click on the "Loading uWinSS-Runtime ..." dialog box when you start the uWinSS-Runtime.



When clicked, the following dialog box appears:

Project		Folder locations where all downloaded projects are saved
	app1\Profiles\	Click <i>Change Folder</i> to change the location the of project folder.
	Change Folder	Select a project to run and/or select checkbox to automatically load last project upon start up.
Select Project: No P	to load last loaded project on startup	Select the menu options you want available during operation of uWinSS-Runtime. Deselect checkmark(s) to
Context Menu Options		remove options.
Allow Exit HMI	Allow Print Screen	 Serial port that would be used for serial transfer of project (not necessary to specify if transferring project over Ethernet)
Ethernet Port: 10001	PLC Port: Not Used	For serially connected PLC, select com port number (not necessary when using Ethernet connection to PLC)
Allow Web Access Refresh Rate: 1 seco Web Folder Path:	ond Brow L Database	For remote access of HMI screens (using RMC mobile apps or a browser), check "Allow Web access." Select refresh rate and specify web folder path. This path MUST be the same as physical path of the webserver setup on this computer.
ОК	License Setup Can	To Store DAQ data in an SQL database check this option (see page 8 for details).
License Setup	<u> </u>	Click <i>License Setup</i> to setup source of license:
License Source		
Local USB Drive -		al LISP Drive - Select if license located an inserted LISP drive
Remote License Se	erver LOCa	
Server IP Address Port	127 . 0 . 0 . 1 Scan License Server Netv	note License Server – Select if license accessible over the LAN work. Enter target IP Address and Port, then click <i>Scan License Serve</i>
Set License Source	Close	

To load a new project to uWinSS-Runtime, simply download the new project from the uWinSS-
Development.June 2016Phone: 1-800-711-5109 • Email: sales@uticor.net7 | P a g eRev 014140 Utica Ridge Road • Bettendorf, IA 527227

Configuring Microsoft SQL Server

uWin Simple SCADA has the ability to store DAQ data in a Microsoft SQL database. The data acquisition is still configured the same (for DAQ setup see page 9 for details). The DAQ data is then not only stored in selected file on the computer but also sent to the setup Microsoft SQL database. Data in the SQL database can be retrieved at any time but cannot be changed.

To configure the SQL database follow below given steps:

- 1. In the start menu go to folder Uticor > uWinSS-Runtime
- 2. Launch the Data Logging Configurator
- 3. In the screen fill out the details for your SQL database
- 4. To configure the database settings press the Set DataLog Database settings button
- 5. Finally make sure that during launch of uWinSS-Runtime in the dialog box you select the store DAQ data in SQL database option.

uWinSS-Runtime	Data Logging Configurator	Server: Name of the server where the SQL database is
Server	AVG-HPZBOOK\SQLEXPRESS	found Database Name: Name of the SOL database itself
Database Name User Name	AVG_DAQ	• Username: The username that this uWinSS-Runtime
Password	AvgSQL123Pwd	Password: Password for the above username.
Set DataLog	Database settings	Set DataLog Database settings: Sets the detail that were entered above as the SQL database information.
Clear DataL Clear Datal Database ti Data and T Close	og records from Database og Records from SQL hat are logged before given ime Date 22/Jun/2016 ▼ Time 9:49:25 AM ↓ Clear	Clear Datalog Records: Clears all the records in the database before the date and time that you set. This uses the above set username and password to clear the database.

Data Logging Overview

Through our uWinSS-Development, users can establish time based or event based schedules for data acquisition. For instance, data can be collected every 10 seconds or at a specific time such as 9 AM. Alternatively, data collection can be activated when a certain event or condition occurs.

The user can define up to 16 schedules as long as each schedule is unique. (For example, there cannot be two identical schedules set to collecting data every 30 seconds.) User can also associate a name (up to 8 characters) with each schedule. Each schedule can currently be used to collect data for up to 1000 tags.

DAQ Schedules

Data Acquisitio	on Schedules	
Total # of Sc	hedules: O	Max # of Schedules: 18
SI#	Schedule Name	
Add/Edit	Delete	
	00000	
-Data Acquisitio	on Collection Tag	
Data Acquisitic Pause/Resum	on Collection Tag e Data Collection Tag:	
- Data Acquisitic Pause/Resum - Data Acquisitic	on Collection Tag e Data Collection Tag:	
Data Acquisitic Pause/Resum Data Acquisitic Rec	on Collection Tag e Data Collection Tag: on File Tags quest To Close Files Tag	•
Data Acquisitic Pause/Resum Data Acquisitic Rec	on Collection Tag e Data Collection Tag: on File Tags quest To Close Files Tag Files Closed Status Tag	
Data Acquisitic Pause/Resum Data Acquisitic Rec	on Collection Tag e Data Collection Tag: on File Tags quest To Close Files Tag Files Closed Status Tag Store Schedule Data:	• •
Data Acquisitic Pause/Resum Data Acquisitic Rec Folger Path to	on Collection Tag e Data Collection Tag: on File Tags quest To Close Files Tag Files Closed Status Tag Store Schedule Data: Profiles\dilavsky\Uticor	•
Data Acquisitic Pause/Resum Data Acquisitic Rec Folger Path to	on Collection Tag e Data Collection Tag: on File Tags quest To Close Files Tag Files Closed Status Tag Store Schedule Data: Profiles\dilavsky\Uticor	· · ·
Data Acquisitic Pause/Resum Data Acquisitic Rec Folger Path to [\\Avgapp1\F	on Collection Tag e Data Collection Tag: on File Tags quest To Close Files Tag Files Closed Status Tag Store Schedule Data: Profiles\dilavsky\Uticor	Cancel Help

Add / Edit: Use this button to add a data acquisition schedule or highlight an existing schedule and then press the button to edit it. Additional information on adding schedules and schedule types is available in the sections that follow.

Delete: Highlight an existing schedule, then press this button to delete it.

Pause / Resume Data Collection Tag: This is a discrete tag that can be controlled by user (e.g. through a Push Button) or by PLC to enable or disable data acquisition. When the tag's value is 0, data collection is enabled; when it is 1, the collection is disabled or paused. Setting the tag to 0 resumes the data collection.

Data Acquisition File Tags:

Request to Close Files Tag: This is a discrete tag that can be controlled by user (e.g. through a Push Button) or by PLC to close the data collection file so it can be accessed by another program. When the tag's value is changed to 1, the program will close the current data acquisition file so it can be edited by other programs. When file closed then value is changed to 0.

Files Closed Status Tag: This is an internal discrete tag that shows whether the file has been closed. When the tag's value is 1 then the file is closed. The file will be in use again once the data collection tag is re enabled, the value of this tag will change to 0 at that point.

Types of Schedules

Add DAQ Schedule De	etails X
Schedule Name	
	a:log Data would be saved under a:log.csv file name on the card.
Schedule Type :	Time Based - at Regular Intervals
Time Based - at Reg	Time Based - at Regular Intervals jular I Time Based - at Specific Times Event Based
Acquire every 1	Event Based - at Regular Intervals

1. Time based – at regular Intervals

Allows you to store the tag value at regular time intervals, anywhere from every millisecond to every 1000 hours.

-Time Based - at R	egular Intervals		
Acquire every	1	Hour(s)	
		Hour(s)	13
Time Based - at S	pecific Times	Minute(s) Second(s) MilliSecond(s)	

2. Time based – at Specific Times

Allows you to store the value of a group of tags up to 10 specific times. You may always edit / delete a specified time.

Time Based - at Spe	cific Times	
Collection Time	06:00 葦	Add
06:00:00	00:18	Edit
		Delete

3. Event Based:

Allows you to create an event and store the values of a group of tags on the occurrence of the same. Based on the data type of the event tag, schedule can be either Discrete Event Type or Numeric Event Type.

Discrete Type Event:

Schedule Type :	Event Based	•	
Time Based - at Reg	jular Intervals	Event Based	
Acquire every 1	Hour(s) 👻	Event Tag R10/1	•
Time Based - at Spe	cific Times 14:02 Add 14:02 Edit Delete	Condition ON OFF Value TRANSITION_ALL TRANSITION_FROM_O TRANSITION_FROM_O Low Limit	N_TO_OFF FF_TO_ON

Numeric Type event:

Schedule Type :	Event Base	ed	•	
Time Based - at Regular Intervals			Event Based	[D500 -
Time Based - at Spe	cific Times	our(s)	Condition	
Collection Time	14:02	Add	Value	IN_RANGE OUT_OF_RANGE EQUAL NOT_EQUAL
	14:02	Edit	Low Limit	LESS_THAN
			High Limit	

4. Event Based - at Regular Intervals:

Allows you to create an event and store the values of a group of tags on the occurrence of the same during a set time period. Based on the data type of the event tag, schedule can be either Discrete Event Type or Numeric Event Type.

a. Set how frequently the data is stored through the Time Based interval, anywhere from every millisecond to every 1000 hours.

-Time Based - at R	egular Intervals –		
Acquire every	1	Hour(s)	
	Hour(s) 😽		
Time Based - at S	pecific Times	Minute(s) Second(s) MilliSecond(s)	

b. Select either a Discrete Type Event or a Numeric Event Type.

Discrete Type Event:

Schedule Type : Event Bas	sed - at Regular Intervals	•	
Time Based - at Regular Intervals		Event Based	
Acquire every 1	Hour(s) 🔻	Event Tag	DATA
Time Based - at Specific Times		Condition	OFF ON
Collection 09:20	Add	Value	OFF
09:20	Edit	Low Limit	
		High Limit	

Numeric Type event:

Schedule Type :	Event Based - at Regular Inte	ervals 🔻	
Time Based - at Regul Acquire every 1	ar Intervals Hour(s)	Event Based	TEST
Time Based - at Speci	fic Times	Condition	WHILE OUT OF RANGE
Collection	09:20 Add	Value	WHILE OUT OF PANGE WHILE EQUAL TO WHILE NOT_EQUAL WHILE OF ATER THAN
	Edit	Low Limit	WHILE LESS THAN
	Delete	High Limit	

a g e

Adding a Schedule

- 1. Open your project file for the uWinSS-Runtime using the uWinSS-Development.
- 2. Then click **Setup > Data Acquisition** to display the DAQ Schedule dialog.

uWinSS-Development Editor - [data_acquisition.uss - #1 Scr 1 - uWinSS Family]					
🛃 File Edit Screen Objects Draw	Panel	Setup Window Help			
wWinSS-Development Editor - [data_a File Edit Screen Objects Draw Image: Down of the strength of the strengt of the strength of the strength of the streng	cquisitic Panel ?	setup Window Help Tag Database Tag Cross Reference Tag Cross Reference By Screen Read AVG Panel / PLC Tags Export Tags > Import Tags > Alarm Database > Export Alarms > Import Alarms > Export Messages > Import Messages > Image Library Image Library Panel Attributes > Project Description Select PLC Upgrade Firmware Upgrade TouchPLCJr Boot Ethernet Setup			
		Upgrade TouchPLCJr Boot Ethernet Setup Global Objects Data Acquisition Remote Users			

 The Data Acquisition dialog box will appear which allows you to add new schedules or edit/delete existing ones. Click on Add/Edit button to display the "Add DAQ Schedule Details."

Add/Edit

4. The "Add DAQ Schedule Details" box will appear. Enter a schedule name. Schedule Names can either be Tag based or a Constant (user defined name).

Schedule Name			
🔘 Tag		•	•
Constant	Sch04	Data would be saved under Sch04.csv file nam	ne on the card.

5. Select preferred Schedule Type (options displayed below):

Schedule Type :		Time Based - at Regular Intervals	-
		Time Based - at Regular Intervals	
Time Based - at Re	egular Int	Time Based - at Specific Times	
	-	Event Based	
Acquire every	1	Event Based - at Regular Intervals	
Ph	one: 1-	800-711-5109 • Email: sales@uticor.net	
41	40 Utica	a Ridge Road • Bettendorf, IA 52722	

- 6. Under "Select Tags for Data Acquisition," the selection displays all the tags defined in the panel with their corresponding tag addresses. Use the double arrows to select or deselect tags within the schedule. Maximum tags allowed per schedule is 1000.
 - To select a tag for data acquisition, click on it and then press the >> button.
 Note: Tags can also be selected or deselected by double-clicking on them.

Se	elect Tags for Da	ata Acquisition				
1	All Tags			Selected Tags		
	Tag Name	Tag Add 🐟		Tag Name	Tag Address	
	BUTTON					
	LIGHT					
	PUSH					
			»			
			45			

To deselect a tag for data acquisition, select it again and press the << button.</p>
Note: Tags can also be selected or deselected by double-clicking on them.

Se	lect Tags for Dat	ta Acquisition				
A	ll Tags			Selected Tags		
	Tag Name	Tag Add 🐟]	Tag Name	Tag Address	
	BUTTON			PUSH		
	LIGHT					
			>>			
			<<			

- 7. Click "Add" when finished making selections. Then click "Close" to return to the main DAQ Schedules dialog box.
- 8. The added schedules will now be listed. Schedules are saved along with the user project.

lata Acqui:	ata Acquisition Schedules					
Total # of	Schedules: 3	Max#ofSchedules: 16				
SI#	Schedule Name					
1	Constant - Time Sch					
2	Constant - Sch001					
3	Constant - Event					

Reports and Graphs Overview

Through our uWinSS-Development, users can establish a variety of different reports and graphs. These range from simple one tag reports to longer production reports. In terms of graphs we have multiple graph types including bar graphs, line graphs and XY graphs. The line graphs even come with a historian option for data logging.

Adding a Report

A report is a single local instance report that can be printed (through network printer) and/or can be sent to a marquee. This type of report is created for access and printing of single local report. For global reports please look at adding a flex report on page 19.

To configure this type of report follow below given steps:

- 1. Open your project file for the uWinSS-Runtime using the uWinSS-Development.
- 2. Then click **Objects** > **Reports** to open a dialog to create a report generating button.



3. In this dialog you can label and change how the button looks on the screen. Also you can have the button print the report (through a network printer) and/or send it to a marquee.

	Report	
	General Messages Protection Visibility/Details	
Change the text on the seen	Label Text Language Label Text Position On Text	Add a label above the button. Can change position of label, its color and its size.
on the button. Can change its color and its size.	Bottom Background	Display Frame Blink ground Blink
	Text REPORT 6x8< ▼ ▼ Print Form Feed at the end of the page ✓ Print Report Send Message To PMD Marquee / Slave Group Number ▼ Unit Number (0 - 4095)	
Can select to print report, an to send report to a marquee.	d/or	Cancel Help

4. Then in the next tab, **Messages**; you put together the reports that are created. To create a report you click on Add/Edit Message.

Report General	Messages	Protection	Visibility/Details		All the different message/reports that an sent are displayed here.	re	<
Maximu	um number of	messages :	99	Namb	er of messages in this report object:	0	1
M L	Msg Text						
		Add/E	dit Message		Delete Message(s)		
					OK Cancel	Help	

5. In the Add Message Details you input the details of the message that you want to create. Once you have put in the report that you want to print then click add new message. To embed a data variable press F7. This data variable will be display the current value of the variable at the time that the report is created.

Add Message Detai	ls 🛛 🛛 🔊	3
Message Text Language	1 Press F7 to embed a data variable.	
Report Text		
Help	Add New Message Close	

6. If you embed a variable the dialog below displays. Here you decided what variable you want to display information on. Then you click add to embed the variable.

	Embedding Data Value	Decide what type of tag you wish to embed (discrete
	Embedded Command Numeric	numeric, string)
Based on the type of tag, configure the settings and what is displayed	Selected tag is a numeric tag Selected tag is a numeric tag Justification Leading Spaces Selected tag is a discrete tag On Text Off Text Specify the string for sending to printer / slave Press F7 to embed a non-printable Ascii charace	Select the tag to embed
	Add Delete Cancel He	q

7. Once you have set up the reports. Then you click ok in the setup dialog and place the button in location you want. Then when in the Runtime pressing this button will do the selected action (printing report on a network printer and/or sending report to marquee).

Adding a Flex Reports

A flex report is a global report that can be printed (through a network printer) and/or can be sent to a marquee. This report is a global object which can be access from multiple screens and printed using the flex report button.

To configure flex reports follow below given steps:

- 1. Open your project file for the uWinSS-Runtime using the uWinSS-Development.
- Then click Setup > Global Objects > Global Flex Report to open a dialog to create a global flex report. Also in the Global Objects menu is where you can later edit or delete the flex report. For this use the Edit Objects and Delete Objects options.

🔩 uWinSS-Development Editor - [test.us	s - #1 So	cr 1 - uWinSS Family]			
🛃 File Edit Screen Objects Draw	Panel	Setup Window Help			
Image: Constraint of the second se	? №?	Tag Database Tag Cross Reference Tag Cross Reference By Screen Read AVG Panel / PLC Tags Export Tags Import Tags	•		
Screens Thumbnail View	· · · ·	Alarm Database Export Alarms Import Alarms Email Setup	*		
	· · · ·	Message Database Export Messages Import Messages	*	· · · · · · · · ·	· · · · · · ·
		Image Library Image Library Cross Reference			
		Language Texts	•		
		Panel Attributes Project Description		· · · · · · · ·	· · · · · · ·
		Select PLC			
		Upgrade Firmware Upgrade TouchPLCJr Boot			
		Ethernet Setup			
		Global Objects	•	Multi-Function	
		Data Acquisition		Global Flex Rep	ort
		Remote Users		Global Data Log	
				Edit Objects Delete Objects	

3. In this dialog you configure the flex report. The first tab (General) decides what happens with the report whenever a Flex Report button is pressed. Configure based on your needs.



4. Then in the next tab, **Report**; you put together the report that will be printed. You can input multiple different things that you look for in a report including time stamp, varaiable data, and Marquee Commands.



 Once the details of the report have been put together. Click Ok. With the global flex report created now you can add a button to your screen that shows/prints the report. Go to Objects > Flex Report to open a dialog to create a flex report button.



6. In this dialog you can label and change how the button looks on the screen. Also you can have the button display the report before it is printed.

	ex Report	
	Add a label above the butto Label Text Label Flex Report Position Color	on. el,
	Image: Open set in the set	
Change the text on the seen on the button. Can change its color and its size.	Text Char Size Color Language 1 Text Blink Text Flex Report 6x8 Image: Color	
	Global Flex Report Name	
Can select to display before printing	e report Select from created global flex reports which one this button will display/print	,

7. Once you have set up the flex report button. Then you click ok in the setup dialog and place the button in location you want. Then when in the Runtime pressing this button will do the selected action (showing the report, printing the report, sending report to Marquee).

Setting up Graphs

The uWinSS software has multiple graph options. These graphs include bar graphs, line graphs and even XY graphs for showing data in multiple different formats. The setup for simple graphs is easy but you can make the graphs more complicated as well. All the graphs are found in the **Objects > Graphs** section.

File Edit Screen Objects Draw Panel Setup Window Help Image: Constraint of the setup of the setup window Help Image: Constraint of the setup	
Image: Second state Image: Buttons Image: Buttons Image: Buttons Image: Data Entry Data Entry Data Display Image: Buttons Ima	
Data Display Data Display Image: Description of the second seco	· · ·
Image: Street	· ·
Animation Meter	· ·
Clock	· ·
Report Flex Report	
Data Objects	· ·
List Selectors Image: Construction of the selectors Alarm Related Image: Construction of the selectors	· ·
Screen Change Image: Constraint of the second s	· ·
View File · · · · · · · · · · · · · · · · · · ·	· · · · · ·

To set up graphs you can follow the steps on the following pages:

Bar Graphs

A bar graph is easy to set up with only needing the tag to monitor and range to be assigned and it is done. But it also has multiple other options that can be modified.

Add a label above the button. Can change position of label, its color and its size.	Can add a digital display and change the scaling of the graph in these tabs.	Car bar dov	n change the style of the graph. It can go up or vn, left or right.
General Digital Disp	lav Scaling Vicibility/Dotails		
	1 Character Size		Select Style
Language		Sele	ted bet
Label Text B	AR GRAPH	Sty	le ∃↓
Position	Color		
Input the tag	om Background -		
		-	peter peter
Defing displayed Tag Name	▼	Display Frame	
on the graph.		Note	
© Tag		Range	es 📕 📕
Value		should entere	d in
	0	Decim	al
Select the range Maximum			
of the graph.	▲	v	Can have a
Can be set so	65535		midpoint at
the range is set			which the color
by tags.	pint		of the graph
C Tag		•	changes.
Value	32767	L	
Show Ticks			
Left/Top	No. of Major Divisions 5 Show Tick Num	nbers 🗸	Color
Right/Bottor	n No. of Sub Divisions 3 Precision for Floa	ating Pt. 📃 💂	
Color	Blink	Selec	t to show ticks and
Bar Foreground	Backaround	there	settings like how
Bar Background		many	, their color, etc.
Add a label above the button. Can change position of label, its color and its size. Can change the scaling of the graph in these tabs. Can change the style of the bar graph. It can go up or down, left or right. Can bar graph. Can b			
as well as its background			
as well as its successfulla.			

Line Graph

The Line graph is more advanced but still to set up a basic one all that needs to be assigned is the tag to monitor in Graphs and Pens tab. But there are multiple other options that can be changed including that this type of graph can also be setup as XY graph. As well as having a historian option for recording the samples taken.



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XY Axis Tab

Line Graph	CONTRACTOR OF STREET			
General Graph And Pen X-Axis ShowTicks Major Divisions Minor Divisions Show Y-Axis gr Show Tick Num	IS XY Axis Log to File Visibility/Details	Color	X and Y Axis Range Note : Select the si unsigned) that mate tag data types. Signed Unsigned Floating Point Precision for Fl Valid Ranges 0	Type gn type (signed or thes the sign of pen oating
V-Axis ShowTicks Major Divisions Minor Divisions	4 2 Canguage 1 Text Y Axis Range	Color	4294967295	Make sure to select the range type to be the same as the tag type you are sampling.
Show Tick Num	Minimum O Maximum Modify the X and Y axis. Can change the ticks, labels and range.	4294967295	OK Cancel	Help

Log to File Tab (Historian or Data Logging)

Line Graph	×
Line Graph General Graph And Pens XY Axis Log to File Visibility, Cog to CSV File File Name Input File Name without extension. Log file will be created with CSV extension path specified in 'Panel Attributes / General to Store Schedule Data'.	Details You can log the samples to a file. To activate historian this needs to be selected and file name needs to input. See page 27 for details.
	OK Cancel Help

XY Graph

The XY graph is a more advanced option for the XY graph available in the Line graph menu. To set up this graph you need input multiple X and Y tags to be monitored in the Pen tab. These are then all sampled at the same time and results are graphed on the XY graph. This is unlike the Line graph where values are only sampled one point at a time.

General Tab



XY Axis Tab



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Setting up Historian Data

The historian option is a type of data logging for graphs where the data taken is also stored in a selected file. The historian option is available for the Line Graph. For more information on setting up Line Graphs please refer to page 23.

To setup Historian/Data Acquisition go to the Line graph setup dialog and there in the Log to File tab you will select the Log to CSV File option, then input file name to save as. Once this is setup all the samples taken on the different tags will be recorded in the selected CSV File.

Line Graph	×
General Graph And Pens XY Axis Log to File Visibility/Details	
Log to CSV File File Name Input File Name without extension. Log file will be created with .CSV extension in the folder path specified in 'Panel Attributes / General / Folder Path to Store Schedule Data'.	You can log the samples to a file. Once you select this option then you need to input name that a .csv file will be saved as. Then the data can be opened and looked at in Excel.
	OK Cancel Help

Printing

Printing for uWin Simple SCADA is accomplished through the Windows printing options. Therefore any time something is printed the default printer is used. Therefore to enable printing from the uWin Simple SCADA Runtime you need to connect a printer to the PC.

This can be done by a direct by a cable or connecting over the network. Then in Devices and Printers of the PC add the selected Printer to your printers and faxes. For more information on adding your specific printers to your PC please refer to the printer's manual.

Once the printer has been added to your list of printers then you should be able to make it your default printer by right clicking on its icon and selecting **Set As Default Printer**. If this is not possible then you can enter the properties of the printer by double left clicking on its icon. Then go to **Printer** drop down menu and select **Set As Default Printer**. Once the printer is set as default then the uWinSS-Runtime will print to this printer

Printing reports

Reports are generated by clicking the reports button in uWinSS-Runtime. These buttons are configured beforehand in the uWinSS-Development (for setup information refer to page 15 & 18). In the configuration of these buttons you select if the report is to be printed. If a default printer is setup and the report printer option is selected then a report will be printed when the Report button is pushed.

Print screen captures

At all times the current screen of the uWinSS-Runtime can be printed by right clicking on the screen and selecting Print Screen. This option can be disabled during startup of the uWinSS-Runtime (for more information please refer to page 7).

Alarm Setup

uWin Simple SCADA has multiple alarms available as well as options to set them up and monitor them at all times. Any time an alarm is triggered it will show up in a designated area determined by you the user. The amount of information and what kind is seen is also determined by you the user.

To set up an alarm you can follow below given steps:

- 1. Open your project file for the uWinSS-Runtime using the uWinSS-Development.
- 2. Then click **Setup** > **Alarm Database** to open a dialog to create alarms. Also in the Setup menu you can export and import alarms as CSV or Excel files.

🧏 uWinSS-Development Editor - [test.	uss - #1 So	cr 1 - uWinSS Family]	
🄩 File Edit Screen Objects Dra	w Panel	Setup Window Help	
	ۇ १ № ₽ ₩ ⊡	Tag Database Tag Cross Reference Tag Cross Reference By Screen	•
Project Project Screens 1 - Scr 1 Alarm Preview Screens Thumbnail View		Read AVG Panel / PLC Tags Export Tags Import Tags	
		Export Alarms Import Alarms Email Setup	▶ ▶ ▶ •
		Message Database Export Messages Import Messages	↓ · ·
		Image Library Image Library Cross Reference	
		Language Texts	· • []]
		Panel Attributes Project Description	
		Select PLC	
		Upgrade Firmware Upgrade TouchPLCJr Boot	
		Ethernet Setup	
		Global Objects Data Acquisition	•
		Remote Users	

3. In the Alarm database dialog you can see all setup alarms and add and edit the alarms using the Add/Edit button.

Sh Te	ow TimeStamp xt on new line	Date Format dd-mmm-yy	Tim	e Format hh:	mm:ss-24	-			Curre	al Number of Alarms : nt Editing Language :	1
A	Tag Name	Acknowledgement T	Al. State	Low Limit	High Limit	Dis	L	P	Lan	Alarm Text	

4. In the dialog that the Add/Edit button opens up you configure the tag that triggers the alarm as well as the information displayed when the alarm is triggered. You embed variables by pressing F7

variables by pressing F7.		Defines which alarm it	Tag that triggers this alarm.
Alarm is trigged based on this. A discrete tag triggers based on either its state. A numeric tag triggers based on user defined range.	Add New Alarm #1 Alarm Number Tag Name Alarm State On Limits Alarm State Out of Range	Off	Logs to a file called ProjectName_AlarmsLog.csv in the same location as the project. See file path in Panel Attributes page 33.
	Low Limit 0	Print	Logs to alarm history.
Can have a numeric tag which stores the value that triggered	High Limit 0	Send E-mail Beep Until Acknowledger	Displays alarm on screen.
the alarm. Is useful for PLC programming since if not zero	Use Acknowledgement Acknowledgement Tag		Prints alarm message.
then can prevent PLC code from working. Needs to be reset from PLC code.	Send Message To PMD Group Number	Marquee / Slave Unit Number (0 - 4095)	Sends an email (needs to have setup alarm emails see page 34).
Can send message to marquee	Alarm Text Language 1 💽 Char Size 6x8	Press F7 to embed a data variable Press CTRL+ENTER to go to next of this message.	Beeps till alarm acknowledgement tag is zero.
		•	Alarm message area. Can embed a data variable.
Change character sizes of alarm messages.	Color Text Background	Justification Blink Horizontal Left Blink Vertical Center	Can modify alarm text color, background, etc.
lune 2016	Help	Add New Alarm Close	
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5. If you embed a variable the dialog below displays. Here you decided what variable you want to display information on. Then you click add to embed the variable.

	Embedded Command Numeric	Decide what type of tag you wish to embed (discrete, numeric, string, slave and printer).
Based on the type of tag, configure the settings and what is displayed	Select tag from where value will be read for embedded data Selected tag is a numeric tag Display Format Unsigned Decimal Justification Leading Spaces Selected tag is a discrete tag On Text Off Text	Select the tag to embed.
	Specify the string for sending to printer / slave Press F7 to embed a non-printable Ascii charac	ter.

6. Once the alarm is setup and you click Add New Alarm. And then you click Ok in the Alarm database. Now you can configure the area the alarm displays by using the side panel and double clicking on the Alarm name. This is unavailable till the first alarm is created.



7. We do also have two buttons which work with alarms for easier navigation and alarm logging. These buttons are in the **Objects > Alarm Related** menu. There you have an Alarm History button which shows which alarms were triggered and when. Also it has an Alarm List which displays all current active alarms.



Alarm Settings

To configure alarm settings go to **Setup** > **Panel Attributes**. Here you can modify the log to file location as well as Alarm behavior.

I Attributes		
eneral Passwords Clock Panel to PLC PL	C to Panel Language Alarm Options PlantView Tag	e e e e e e e e e e e e e e e e e e e
Power Un Screen B	Floating Point Options	
	Tiny floating values	
0 = Disabled	(tiny: not displayable in chosen format)	This option papel allows
Default Language 1	Display in scientific notation	
Display large key pad on panel	Display as 0	also the changing of few
(Defaults to smaller one)	Default floating point decimal place 2	 display options such as
Z Enable Beeper		key pad size, display
Enable Visual Effect for Touch	On Panel Recipe Edit tag	colors number of digits
System Colors		
	With tag = 1, pressing recipe button	displayed, and even
Text Edit Background	allows editing of the recipe. With tag = 0, pressing recipe button	recipe controls.
Folder Path To Store Log Files	writes recipe values to pic.	
\\C:\Users\test		
		Location where you will log
	· · · · · · · · · · · · · · · · · · ·	the Alarm history logs.
		OK Cancel Help
Attributes		OK Cancel Help
Attributes neral Passwords Clock Panel to PLC PL4	C to Panel Language Alarm Options PlantView Tag	OK Cancel Help
Attributes neral Passwords Clock Panel to PLC PLI Password Protect Object	C to Panel Language Alarm Options PlantView Tag	OK Cancel Help
Attributes neral Passwords Clock Panel to PLC PLr Password Protect Object Allow access to following user groups :	C to Panel Language Alarm Options PlantView Tag	OK Cancel Help
Attributes neral Passwords Clock Panel to PLC PLI Password Protect Object Allow access to following user groups : Managers	C to Panel Language Alarm Options PlantView Tag	OK Cancel Help
Attributes neral Passwords Clock Panel to PLC PLI Password Protect Object Allow access to following user groups : Managers Engineers	C to Panel Language Alarm Options PlantView Tag Shift 1 Operators Shift 2 Operators	OK Cancel Help Here you can password prot alarm histories, alarm cleari and other alarm options.
Attributes neral Passwords Clock Panel to PLC PL Password Protect Object Allow access to following user groups : Managers Engineers Supervisors	C to Panel Language Alarm Options PlantView Tag Shift 1 Operators Shift 2 Operators Shift 3 Operators	OK Cancel Help Here you can password prot alarm histories, alarm clearin and other alarm options.
Attributes neral Passwords Clock Panel to PLC PLI Password Protect Object Allow access to following user groups : Managers Engineers Supervisors Maintenance	C to Panel Language Alarm Options PlantView Tag Shift 1 Operators Shift 2 Operators Shift 3 Operators General	OK Cancel Help
Attributes eral Passwords Clock Panel to PLC PLI Password Protect Object Allow access to following user groups : Managers Engineers Supervisors Maintenance Note: Note: Note:	C to Panel Language Alarm Options PlantView Tag Shift 1 Operators Shift 2 Operators Shift 3 Operators General Language Alarm Options PlantView Tag	OK Cancel Help Here you can password prot alarm histories, alarm cleari and other alarm options. Here you can decided how
Attributes eral Passwords Clock Panel to PLC PLI Password Protect Object Allow access to following user groups : Managers Supervisors Supervisors Maintenance Note: These passwords are used for password pro on the Alarm History screen and the CLEAR a Alarm Counterscene.	C to Panel Language Alarm Options PlantView Tag C to Panel Language Alarm Options PlantView Tag Shift 1 Operators Shift 2 Operators Shift 3 Operators General Lecting the CLEAR ALL button nd CLEAR ALL buttons on the	OK Cancel Help Here you can password prot alarm histories, alarm cleari and other alarm options. Here you can decided how many alarms can be shown
Attributes neral Passwords Clock Panel to PLC PLI Password Protect Object Allow access to following user groups: Managers Engineers Supervisors Maintenance Note: Nese passwords are used for password pro on the Alarm History screen and the CLEAR a Alarm Count screen.	C to Panel Language Alarm Options PlantView Tag C to Panel Language Alarm Options PlantView Tag Shift 1 Operators Shift 2 Operators Shift 3 Operators General Recting the CLEAR ALL button nd CLEAR ALL buttons on the	OK Cancel Help Here you can password prot alarm histories, alarm cleari and other alarm options. Here you can decided how many alarms can be shown how long they will appear.
Attributes neral Passwords Clock Panel to PLC PLI Password Protect Object Allow access to following user groups: Managers Engineers Supervisors Maintenance Note: These passwords are used for password pro on the Alarm History screen and the CLEAR a Alarm Display Options	C to Panel Language Alarm Options PlantView Tag C to Panel Language Alarm Options PlantView Tag Shift 1 Operators Shift 2 Operators Shift 3 Operators General Recting the CLEAR ALL button nd CLEAR ALL buttons on the	OK Cancel Help Here you can password prot alarm histories, alarm clearin and other alarm options. Here you can decided how many alarms can be shown how long they will appear.
Attributes neral Passwords Clock Panel to PLC PLI Password Protect Object Allow access to following user groups : Managers Bigineers Supervisors Maintenance Note: These passwords are used for password pro on the Alarm History screen and the CLEAR a Alarm Count screen. Alarm Display Options Display each alarm fo	C to Panel Language Alarm Options PlantView Tag Shift 1 Operators Shift 2 Operators Shift 3 Operators General Lecting the CLEAR ALL button nd CLEAR ALL buttons on the pr 5	OK Cancel Help Here you can password prot alarm histories, alarm clearin and other alarm options. Here you can decided how many alarms can be shown how long they will appear.
Attributes neral Passwords Clock Panel to PLC PLI Password Protect Object Allow access to following user groups Allow access to following user groups Charagers Charagers Supervisors Maintenance Note: These passwords are used for password pro on the Alarm History screen and the CLEAR a Alarm Display Options Display each alarm for Maximum number of alarms in display queue	C to Panel Language Alarm Options PlantView Tag Shift 1 Operators Shift 2 Operators Shift 3 Operators General tecting the CLEAR ALL button nd CLEAR ALL buttons on the or 5	OK Cancel Help Here you can password prot alarm histories, alarm cleari and other alarm options. Here you can decided how many alarms can be shown how long they will appear.
Attributes neral Passwords Clock Panel to PLC PL Password Protect Object Password Protect Object Allow access to following user groups Banagers Banagers Bupervisors Maintenance Note: These passwords are used for password proto on the Alarm History screen and the CLEAR a Alarm Display Options Display each alarm for Maximum number of alarms in display queue Once queue is full, new alarms will not be adde	C to Panel Language Alarm Options PlantView Tag Shift 1 Operators Shift 2 Operators Shift 3 Operators General Recting the CLEAR ALL button nd CLEAR ALL buttons on the or 5 9 d to the queue and hence not displayed)	OK Cancel Help Ja Image: Cancel Control of the
Attributes neral Passwords Clock Panel to PLC PL Password Protect Object Password Protect Object Allow access to following user groups Chanagers Engineers Supervisors Maintenance Note: These passwords are used for password protoon the Alarm History screen and the CLEAR a Alarm Display Options Display each alarm fi Maximum number of alarms in display queue Once queue is full, new alarms will not be adde	C to Panel Language Alarm Options PlantView Tag Shift 1 Operators Shift 2 Operators Shift 3 Operators General tecting the CLEAR ALL button nd CLEAR ALL buttons on the or 5	OK Cancel Help BB Image: Cancel Control of the second second proton of the second proton
Attributes neral Passwords Clock Panel to PLC PL Password Protect Object Password Protect Object Allow access to following user groups Chanagers Chanagers Supervisors Maintenance Note: These passwords are used for password protoon the Alarm History screen and the CLEAR a Alarm Count screen. Alarm Display Options Display each alarm fi Maximum number of alarms in display queue Once queue is full, new alarms will not be adde Alarm History Options Maximum alarms in history	C to Panel Language Alarm Options PlantView Tag C to Panel Language Alarm Options PlantView Tag Shift 1 Operators Shift 2 Operators Shift 3 Operators General tecting the CLEAR ALL button nd CLEAR ALL buttons on the or 5 \Rightarrow 9 99 \Rightarrow d to the queue and hence not displayed) (Need 4.0 kb memory)	OK Cancel Help BB Image: Cancel Control of the
Attributes neral Passwords Clock Panel to PLC PL Password Protect Object Allow access to following user groups : Managers Supervisors Maintenance Note: Not	C to Panel Language Alarm Options PlantView Tag C to Panel Language Alarm Options PlantView Tag Shift 1 Operators Shift 2 Operators Shift 3 Operators General tecting the CLEAR ALL button nd CLEAR ALL buttons on the or 5 \$ 99 \$ (Need 4.0 kb memory)	OK Cancel Help BB Image: Cancel Control of the
Attributes eral Passwords Clock Panel to PLC PL Password Protect Object Password Protect Object Allow access to following user groups : Managers Engineers Supervisors Maintenance Note: Maintenance Note: Note: These passwords are used for password pro on the Alarm History screen and the CLEAR a Alarm Count screen. Alarm Display Options Display each alarm fi Maximum number of alarms in display queue Once queue is full, new alarms will not be adde Alarm History Options Maximum alarms in history Aum of the oldest alarm and add the n	C to Panel Language Alarm Options PlantView Tag C to Panel Language Alarm Options PlantView Tag Shift 1 Operators Shift 2 Operators Shift 3 Operators General tecting the CLEAR ALL button nd CLEAR ALL buttons on the or 5 \$ 9 99 \$ (Need 4.0 kb memory) ew alarm to buffer (FIFO)	OK Cancel Help Ba Image: Cancel Image: Cancel Here you can password prote alarm histories, alarm clearing and other alarm options. Image: Cancel Here you can decided how Image: Cancel

OK Cancel Help

Email Setup

uWin Simple SCADA has an email option for both scheduled emails and for alarm emails. These emails can be configured to be sent by an alarm, a tag or even just at a scheduled time. These emails do not require any client software on the PC, instead you only need a valid email address and password with an email provider. This does include emails from own servers or from providers like gmail. Some IT information is needed for setup so if you do not know something please consult your IT department or your email provider.

To set up emails you can follow below given steps:

- 1. Open your project file for the uWinSS-Runtime using the uWinSS-Development.
- 2. Then click Setup > Email Setup to open a dialog to create alarms.



3. In the Setup Email dialog you see details to setup outgoing server and your connection to your account. Please fill out the information with details from your IT department or email provider.

		Use domain lookup button to open dialog below. If
	Setup Email	know IP address of Outgoing server then can enter
	Email Server Setup Alarm Email Satura Email Paciapant	it directly
Select the encryption type and port number. Provided by IT department or email provider.	Outgoing Server(SMTP) 0 . 0 . 0 . Port No. (SMTP) 25 Encryption Type None SMTP requires autentication User Name Password	0 Domain Name Lookup Domain Name Lookup X Domain Y IP List Y
Input the username an account that you wish SMTP authentication is	d password of your email to use. This is not required if not needed.	Close
		Input domain name like gmail.com. This will look up the IP address of that domain and then select the IP address and press Use Selected IP.
		OK Cancel Help

4. In the Alarm Email Setup screen you create the message body as well as input the sender information. You can include the alarm message in the email. To send a test email please first add email recipients in the email recipients tab.

	Setup Email		
Enter sender email address.	Email Server Setup Alarm Email Setup Email Reciepents Sender email address Alarm Email Setup Subject Line: Append Alarm Message to Subject Email Body (Max 1000 char including Alarm message if a	Schedule Email Send Test E-Mail Line ppended)	Can send a test email to make sure everything is working. To send a test email please first add email recipients in the email recipients tab.
Subject line of alarm email. Can append alarm message to it.	Append Alarm Message Details to Body	Email message body area. Can append alarm message to it.	

5. In the Email Recipients tab you input who the emails will be going to. This can be constant or can be tag based.

	Setup Email		X]
	Email Server Setup Alarm Email Setup Email Alarm marked for emails, when tiggered, will	il Reciepents Schedule Email		
List of emails that will get alarm emails.		Add New Email Address		Enter recipient email addresses. Can use a string tag which needs to contain an email address.
			Edit and dele emails from	ete selected email list.
		OK Can	cel Help	

6. In the Schedule Email tab you can configure scheduled emails.

	Setup Email	Tag that enables sending of scheduled emails.
Body of scheduled emails. Can embed different tags. Email can be sent based on a tag.	Email Schedule	Subject of scheduled emails.
Email can also at the same time be sent on a schedule. This schedule can be at hourly intervals, at specific	Tag Based Tag Based Tag Based Scheduled Generative Solution (at the top of the hour, e.g. xx.00 hours) Specific Times (such as every shift)	Embeddable options. Include time/date and different tags.
times, or even at user specified times. There is also a daily, weekly and monthly option.	Comma seperated times e.g 8, 9:12, 10:00,11AM, 2PM, 222 PM, 222 Daily at 12:00 AM Weekly On Monthly On 1 12:00 AM	Select which email recipients get the scheduled email.
	OK Cancel	Help

7. Once you have set up all the emails you would like then you click OK and your emails are setup to send at the selected time or based on your alarms/tags.

Remote Monitoring & Control

With the introduction of **Net View Control (NVC)** software our uWinSS-Development in connection with uWinSS-Runtime provides a unique set of remote capabilities. A user can remotely log on to a unit and monitor any of the panel screens with live data including the currently displayed screen.

With the right access permissions and authentication, a user can remotely "touch" the objects on the panel, to control a machine/plant effectively. Remote control feature can be invaluable for remote diagnostics, unmanned operations, or supervisory monitoring.

In addition to remote monitoring and control, user may also program the panels remotely over Ethernet, allowing OEMs to remotely upgrade the screen programs within the panels.

To setup Remote Monitoring and Control, follow these steps:

- 1. Use uWinSS-Development to set up remote users and authentication level.
- 2. Use NVC software (Net View Control software) to connect to the panel remotely.

Setting up Remote Users

The UT-NVC has to be used with defined authorized users. Remote users can be given View ONLY or Operation (View + Control) permission. View only permission allows user to ONLY monitor the panel display remotely, while operation permission allows a user to operate panel remotely.

Select **Setup > Remote Users** as shown below to display the following UT-NVC User Dialog window:



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0 01 0 361	18. 0		Maxinu (DI USEIS. O
SI #	UserName	Password	Access	
1	avg12345	avg12345	View + Control	
2	Operator	aabbcc123	View Only	
3	Supervisor	fullcontrol123	View + Control	

Use this screen to add up to 8 remote users through the *Add/Edit* button or delete existing users using the *Delete* button



Add Remote User

The Log-in name and the password are case sensitive and both must be between 8 to 16 characters in length. Password must contain at least one letter and one number.

Access Level can be set for remote viewing only or for viewing and control (details below).

OR highlight existing user then click *Add/Edit* to edit user details



Edit User Details

Under Edit Mode, you can make changes to the log-in name, password or access level granted.

When finished, click *Apply Changes* for the new details to take effect.

Access Level

ONLY Remote VIEW - A user can remotely log on to the panel and monitor any of the panel screens with live data including the currently displayed screen.

Remote OPERATION - A user can remotely log on to the panel and monitor any of the panel screens with live data including the currently displayed screen as well as can remotely "touch" the objects on the panel, to effectively operate or control a machine/plant.

Net View Control software

To access the panel over Ethernet, you need to install and run the UT-NVC on your PC. Once you run the software, you will see the following UT-NVC dialog.

I-TU 🎑	NVC 1.2.15		×	Quick Connect
Quick	Connect			Select either Ethernet or desired COM Port.
Sele	ect Ethernet/COM Port IP Address : Port Number : Polling Time ite Panel List	Ethernet Image: Constraint of the second secon	Quick Connect	 (Ethernet option only) Enter the IP address or computer running the uWinSS-Runtime. Polling time determines how often the NVC software reads data from the panel. A lower polling time may impact the performance of the panel. It is recommended to keen polling
#	Panel Name	COM	Add	time as high as possible.
1	Panel 1	127.0.0.1:10001	New Panel	
				Favorite Panel List
			Edit Selected Panel	Add panels which you connect to often. Need to input same information as for the quick connect.
			Delete Selected Panel	Edit the access to favorite panels.
			Connect to Selected Panel	Delete the selected favorite panel.
			Close UT-NVC	Connect to the selected panel.



Quick Connect

Once the Quick Connect button is pushed the username and password that were chosen in the uWinSS-Development remote user details need to be entered:

Add New Panel Details	X	Add New Fa
Panel Name	[If you wish t
Select Ethernet/COM Port	Ethernet 🔹	name.
IP Address :	127 . 0 . 0 . 1	
Port Number :	10001 Default Port Number is	Select Ether
Authentication Details		provide the
Unlock Password		
UserName		Enter unlock
Password		project from
		uWinSS-Run
	Add Cancel	
		Enter userna

Add New Favorite Panel

- If you wish to add a new favorite panel then you need to enter panel name.
- Select Ethernet or desired COM Port. If Ethernet selected then provide the IP Address.

Enter unlock password. (This is the password that protects the project from downloading or reading. It is set during transfer to uWinSS-Runtime from uWinSS-Development.)

Enter username and password set up in remote user setup.

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PLC Protocols Supported

Allen Bradley / Rockwell Automation:

A-B DF1 Half and Full Duplex (PLC-5, SLC500, Micrologix 1000, 1200 and 1500) A-B Ethernet I/P (ControlLogix & CompactLogix) A-B DF1 over Ethernet (for Micrologix & SLC 500 PLCs)

Automation Direct:

ADC K-Sequence (Direct Logic PLCs) Do-More PLC (Serial & Ethernet) Modbus (Productivity 3000 PACs, Direct Logic PLCs, Click PLCs) ECOM Ethernet (Direct Logic PLCs) Entivity Think&Do (Modbus RTU and Modbus TCP/IP)

EZAutomation:

EZPLC TCP/IP

GE: GE SRTP over Ethernet

UTICOR TOUC

Mitsubishi: Modbus TCP/IP

Modicon / Schneider: Modbus RTU Modbus TCP/IP

Omron: Modbus TCP/IP

Siemens: Siemens Ethernet ISO over TCP/IP

<u>Uticor:</u>

Uticor PLC TCP/IP