

ScadaTEC Web Server Interface

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OVERVIEW:

All ScadaTEC products implement an **HTTP Web Server Interface**. There is a core set of features for **viewing status logs** and **modifying datapoints** implemented in every product, but **ScadaPhone** also has features to support **alarm reporting**, **alarm acknowledgement**, **alarm summary** and **schedular**.

This document will describe the features supported by ScadaPhone.

The primary goal of implementing this interface as a standard **HTTP Web Server** is to achieve **crossplatform remote access capability** from any smart-phone, tablet, laptop or desktop computer. No special App is required.

To use the **Web Server Interface**, the **Host Computer** must have internet access and must be allowed to accept incoming connections from remote clients through a configurable **TCP/IP Network Port**.

Web Sever Configuration

To configure **ScadaPhone Web Server** click the **Web Server** menu item from the **ScadaPhone's** main window:



Configuration Controls on the ScadaPhone Web Server window

- Enable Web Sever: If this box is checked, the TCP/IP server port will be opened to listen for and service incoming connection requests from client web browsers. Note that in the graphic above, there is an orange colored license-status label indicating that the Web Server is Unauthorized. The HTTP Web Server feature is optional and must be authorized separately from the ScadaPhone authorization. Non-authorized use of this feature is limited to a one-hour trial period (for testing and evaluation). To authorize the Web Server for continuous use, click the license-status label and follow the instructions.
- The Local Area Network IP Address (LAN IP), Wide Area Network IP Address (WAN IP) and HTTP Port are displayed to inform the user where to connect (e.g. http://192.168.0.3:81 from any machine on the local router, or http://75.113.156.164:81 from the internet).

If the computer on which this server is hosted has a **Dynamic IP Address**, the address values will be subject to change; if this is the case, the best solution is to use a **Dynamic DNS Service** (such as No-IP.com, changeip.com, etc...). A **Dynamic DNS Server** will typically require the installation of a small utility application which periodically makes sure that the current WAN IP of your server is assigned to a static URL which the client web browsers can save as a Bookmark or Favorite URL.

If the host machine has multiple Network Adapters, the preferred adapter can be selected by clicking on the blue LAN IP label. The selected adapter preference will be stored via the MAC Address (which never changes) to ensure that it is correctly selected on subsequent runs of the host application which may happen after the adapter has been assigned to a different IP Address.

This setting is important on machines which have their primary network adapter isolated from the internet; if a secondary adapter has internet access, then the secondary adapter should be selected to host the **Web Server**.

- The HTTP Port is the Windows Socket to which Web Server will listen for client connection requests. The globally accepted default port number for HTTP servers is port 80; however, many Internet Service Providers will block traffic going to port 80 for security or performance reasons. To avoid this common issue, ScadaTEC's Web Server defaults to port 81, but this can be set to any other available port number if desired.
- The Server URL setting specifies what kind of link-back to the Web Server should be placed in outgoing alarm notifications; this link can be set to use a WAN IP URL

(http://75.113.156.164:81), a **DNS hosted URL** (http://www.YourSys.net:81), or no link.

The **ScadaTEC Web Server** allows the system designer to specify lists of tags to be made accessible to web clients. The desired tags should be segregated and placed into groups that have a common association so that the user can navigate to the desired information quickly. To configure the list(s) of tags to be made available through the Web Server, click the **Tag List(s)** hyperlink:

💋 ScadaPhone Web Server	– 🗆 X	
Main Window Log		
Enable Web Server Unauthorized	d, 00:58:39 remaining in trial period	
Enable Web Server Unauthorized LAN IP: 192.168.0.3 WAN IP: 75. TagList(s): 2 Lists (145 Tags) Server URL: http://75.113.156.164:81 Connections Communications Log Client IP Login Name	4, 00:58:39 remaining in trial period 113.156.164 HTTP Port: 81 Web Server Tag Lists — IX Tags Tag List Name 133 Alarm Bypass (RTE) 12 Gas Levels — — — — — — — — — — — — — — — — — — —	
	Add lags Remove lags Edit Description	
	UK Cancel	

There is no limit to the number of lists or the number of tags in each list, but care should be taken to not over-burden the users with excessively long list when they are viewing this information on their mobile devices.

Note that each **Tag List** item can be given an optional **Description** (shown in purple font); this is helpful if systems having cryptically-abbreviated tag names. The optional descriptions can be set to display a customized message, the associated alarm message (if the tag is associated with an alarm), or left blank.

Router Configuration:

In most cases, the **ScadaTEC Web Server** will be installed on a network under the control of a router. So, when ScadaPhone displays the **WAN IP** on the **Web Server** setup window, this is really the **IP Address** of the **router** as allocated by the Internet Service Provider. In order to properly route connections from the internet through the router and down to the host machine, some minor configuration must be done in the router. Accessing the router setup screen varies from one router type to another, the following outlines the steps for configuring a **D-Link** router.

On a LAN supported by a D-Link Router, entering <u>http://dlinkrouter/</u> into the address bar of any web browser will open the router configuration page. After logging-in, find the configuration page for Virtual Servers (which is similar in concept to Port Forwarding); on the D-Link Routers, this can be found under Advanced options.

Product Page: DIR-655 Hardware Version: B1 Firm						mware Version: 2.00NA	
D-Lini	k						
DIR-655		SETUP	ADVANCED	TOOLS	;	STATUS	SUPPORT
VIRTUAL SERVER PORT FORWARDING APPLICATION RULES QOS ENGINE NETWORK FILTER ACCESS CONTROL WEBSITE FILTER	VIRT The V to an online Save	VAL SERVER /irtual Server opt internal LAN IP / services such as Settings Don't - VIRTUAL S	ion allows you to define a s Address and Private LAN pol FTP or Web Servers. Save Settings ERVERS LIST	ingle public por t if required. <mark>1</mark>	t on your rout 'his feature is u	er for redirection seful for hosting	Helpful Hints Check the Application Name drop down menu for a list of predefined server types. If you select one of the predefined server types, dick the arrow button next to the drop down menu to fill out the corresponding field.
INBOUND FILTER				Port	Traffic Type		from the list of DHCP dients in the Computer
ROUTING		Name	<	Public Port	Protocol	Schedule	Name drop down menu, or you can manually enter
ADVANCED WIRELESS		STHTTP	Application Nam 🔻	81	TCP 🔻	Always 🔻	the IP address of the computer at which you
WISH		IP Address	<	Private Port		Inbound Filter	would like to open the specified port.
WI-FI PROTECTED SETUP		192.168.0.102	Computer Name	81 Public Port	6 Protocol	Allow All	Select a schedule for when the virtual server
ADVANCED NETWORK					TCP V	Alwaye T	not see the schedule you

The configuration for the ScadaTEC Web Server requires that HTTP client connections be directed from the WAN IP Address (the router's internet address) to the ScadaPhone host machine. For the sake of simplicity, the example above routes all traffic to **WAN IP Port 81** to **LAN IP Port 81**. However, any combination of ports can be specified (as long as the **LAN Port** matches the ScadaPhone configuration and the **WAN Port** matches the configuration specified when setting up the **Dynamic DNS service**).

View From The Web Browser:

To access the Web Server from the host machine (for the purposes of testing), type **localhost:81** into the address bar of any web browser, this should result in the **Login Page** to be displayed:



Note: The **User Names** and **Passwords** are configured under ScadaPhone's **Users** tab. In all other apps, the **User List** can be edited from the **Edit User List** window (accessible from the **Session** menu item).

After a successful log-in, the Web Server's **Root Menu** will be displayed:



Note that there is a warning banner (displayed on all Web Server pages) which indicates when the host app is in **Development Mode** or **OFF-LINE**. The banners disappear when the system is running normally.

Root Menu:

All ScadaTEC apps support the **System Status**, **Logs Menu** and **Tag Values** functions; additionaly, ScadaPhone Web Server supports functions related to **Alarm Reporting** and **Acknowledgement**, **Alarm Summary** and **Scheduler**:

₩ OPCHub Root Menu x +		ScadaPhone Root Menu X + ×
← → C ☆ ③ localhost:82/RootMenu?SID=15	☆ 🖪 :	\leftarrow \rightarrow C \triangle (i) localhost:81/RootMenu?SID=15 \Rightarrow (B) :
OPCHub Web Server by ScadaTEC 5.0.3.1001 Main Menu		ScadaPhone Web Server by ScadaTEC 6.2.3.1011 Main Menu
System Status		System Status
Logs Menu		Logs Menu
Tag Values		Alarm Summary
Log Out		Scheduler
		Tag Values
		Log Out

Logs Menu

This also varies between ScadaTEC apps depending upon which features are supported:



Event Logs

The most common type of log implemented in ScadaTEC apps is the **Event Log**; the Web Server provides access to these logs so that the users can view current system activity:

	Sca	daPhon	e IPMo	demLo	og ×	+ -		×	
~	\rightarrow	C	$\hat{\Omega}$	()	localhost:81	/CLog?SID=15.114320.031&LogName=IPModemLog&DisplayName=IP%20Mode 5	a B	:	
	IP Modem Log								
Uct	15,	11:4	2:44.	060	[0.082]	AT 1		_	
Oct	15,	11:4	2:44.	068	[0.008]	ОК			
0ct	15,	11:4	3:05.	187	[21.119]	AT +CMGS="555-1234"			
Oct	15,	11:4	3:05.	309	[0.122]	AT +CMGS="555-1234"			
0ct	15,	11:4	3:06.	311	[1.002]	>			
0ct	15,	11:4	3:07.	097	[0.786]	Ack#13351: 3 Alarms: RSP PUMP 7 SPEED COMMAND (High); RSP PUMP 8	MONITO	R S'	•
0ct	15,	11:4	3:10.	304	[3.207]	Ack#13351: 3 Alarms: RSP PUMP 7 SPEED COMMAND (High); RSP PUMP 8			
0ct	15,	11:4	3:10.	312	[0.008]	MONITOR SYS INTERLOCK; RSP PUMP 8 SPEED INDICATION SCALED (High			
0ct	15,	11:4	3:10.	320	[0.008])<^Z>			
0ct	15,	11:4	3:10.	327	[0.007]	+CMGS: 99			
Oct	15,	11:4	3:10.	328	[0.001]	ОК			
0ct	15,	11:4	3:12.	560	[2.232]	AT +CMGL="ALL"			
Oct	15,	11:4	3:12.	684	[0.124]	AT +CMGL="ALL"			
Oct	15,	11:4	3:12.	692	[0.008]	OK			-
					-			•	
						Logs Menu) (🔹 🖳			

Tag Lists:

All ScadaTEC applications support the **Tag List** feature (which was introduced in the **Web Server Setup** earlier in this document). The **Tag List** feature consists of two page types:

- **Grouped Tag Lists:** This is the main index page which displays the list of user-defined tag lists; to open the user-defined lists, click the **View** button.
- User Defined Tag List: This window displays the tag names and values selected for each list. Users logged-in with Data Entry access can change data-point values by clicking the Modify buttons.

	① Ocalhost:81/lagVals?SID=15.1430 ☆	🕒 i 📲 :	ScadaPhon	ne Tag Values × +
	Grouped Tag Lists	^ +	→ C	
View	Alarm Bypass (RTE) 133 Tags			Tag List: Gas Levels
View	Gas Levels 12 Tags	M	lodify	FIX.OPP_COMB_GAS_LVL_HI_SP Current Value = 0
View	Respirator 1 110 Tags	M	lodify	FIX.OPP_COMB_GAS_LVL_HI_SP.F_HI Optional Tag Description
View	Respirator 2 87 Tags		lodify	Current Value = 0 FIX.OPP_COMB_GAS_LVL_HI_SP.F_LO AlarmMsg: OPP COMBUSTIBLE GAS LEVEL HIGH ALARM SP Current Value = 0
		- M	lodify	FIX.OPP_CO_GAS_LVL_HI_SP Current Value = 0
	Main Menu			FIX.OPP_CO_GAS_LVL_HI_SP.F_HI

Note that the optional **Description** (if defined) is displayed in purple font between the **Tag Name** and **Value**.

ScadaPhone Specific Pages

As indicated previously, the **ScadaTEC Web Server** interface has more pages defined when being hosted by **ScadaPhone**. This is necessary to provide access to the **alarm reporting** and **alarm acknowledgement** features associated with ScadaPhone (but aren't present in other apps). The remainder of this document describes features present only in ScadaPhone.

Alarm History Log

The Web Server Alarm History page mimics the corresponding log in the Windows application:

Alarm History				-		×			
Main Window Dock Trigger Time 2019/10/15 15:30:15.42	Alarm Name 3 FIX.RSP 7 PMP IN STBY	Alarm Name: FIX.C Alarm Msg: OPP		Low) RM SP(Low)					
2019/10/15 15:30:05.26 2019/10/15 15:29:49.01 2019/10/15 15:29:42.93 2019/10/15 15:29:28.72 2019/10/15 15:28:50.73 2019/10/15 15:28:50.72	9 FIX.RSP.7_PMp_RIN_VFD 9 FIX.RSP_8_PMp_IN_STBY 6 FIX.RSP_9_PMP_SPEED_IND (Low) 4 FIX.RSP_7_PMP_REM_HAND 3 FIX.OPP_WET_WELL_VVL_HI_SP_(Low) 8 FIX.OPP_SUPPLY_FAN_RUINING	2019/10/15 15:28:50.7 2019/10/15 15:28:50.7 2019/10/15 15:28:50.8 2019/10/15 15:28:50.8 2019/10/15 15:29:00.4	2019/10/15 15:28:50:733 TRIGGERED 2019/10/15 15:28:50:733 TRIGGERED 2019/10/15 15:28:50:733 ACKNOWLEDGED AT TRIGGER TIME 2019/10/15 15:28:50:888 TTPRedundancyMaster changed to [2]@SCADATEC-BK 2019/10/15 15:29:00.467 CLEARED (00:00:09)						
ScadaPhone Alarm	History × +						_		×
← → C ☆ (localhost:81/AlarmHistory?SID=15.15	2854.411					4	в	:
Time Stamp	Alarm Name / Event		Alarm Name: FIX.OPP_	WET_WELL_LVL	_HI_SP (I	Low)			
Tue Oct 15, 15:30:27	FIX.RSP_7_PMP_SPEED_IND (Low)	*	Message: OPP WET	WELL LEVEL HIG	GH ALAR	M SP(Low)		
Tue Oct 15, 15:30:25	FIX.RSP_7_PMP_FAULT		Tue Oct 15, 15:28:50	TRIGGERED					
Tue Oct 15, 15:30:15	FIX.RSP_7_PMP_IN_STBY		Tue Oct 15, 15:28:50	ACKNOWLEDG	BED AT T	RIGGE	ER TIME		
Tue Oct 15, 15:30:05	FIX.RSP_7_PMP_RUN_VFD		Tue Oct 15, 15:28:50	TTPRedundanc	vMaster	change	ed to [2]@SCAE	ATEC-BI	к
Tue Oct 15, 15:29:49	FIX.RSP_8_PMP_IN_STBY		Tue Oct 15, 15:29:00	CLEARED (00:0	00:09)	-			
Tue Oct 15, 15:29:42	FIX.RSP_9_PMP_SPEED_IND (Low)								
Tue Oct 15, 15:29:28	FIX.RSP_7_PMP_REM_HAND								
Tue Oct 15, 15:28:50	FIX.OPP_WET_WELL_LVL_HI_SP (Low)								
Tue Oct 15, 15:28:50	FIX.OPP_SUPPLY_FAN_RUNNING								
Tue Oct 15, 15:28:50	FIX.OPP_RSP_WW_LEVEL_SP (High)								
Tue Oct 15, 15:28:50	FIX.OPP_RSP_NEUTRAL_SPD_SP (High)								
Tue Oct 15, 15:28:50	FIX.OPP_H2S_GAS_LVL_H_ALM								
Tue Oct 15, 15:28:50	FIX.OPP_FLOW (Low)								
Tue Oct 15, 15:28:50	FIX.OPP_CO_GAS_LVL_HI_SP (Low)								
Tue Oct 15, 15:28:50	FIX.OPP_AS_CB_LVL_H_ALM								
Tue Oct 15, 15:28:50	FIX.INF_FLOW (Low)								
Tue Oct 15: 15:28:48	FIX RSP & SUCTION VIV OPEN	*							T
		•							
	(Back To Menu						

This allows the user to view all of the events associated with a particular alarm cycle. When an alarm is highlighted in the left panel, the events associated with that alarm cycle are displayed on the right panel.

When viewing this page on a small device such as a tablet or smart phone, the JavaScript logic in the page senses the narrow display width and shifts the display mode to only show one panel at a time:

ScadaPhone Alarm	History × +	- 🗆 ×	
← → C ☆	localhost:81/AlarmHistory?SID=15.1	☆ 🖪 :	ScadaPhone Alarm History X + X
Time Stamp	Alarm Name / Event		
$\label{eq:constraints} \begin{split} & \text{Tue Oct 15, 153, 015} \\ & \text{Tue Oct 15, 153, 005} \\ & \text{Tue Oct 15, 1529, 49} \\ & \text{Tue Oct 15, 1529, 49} \\ & \text{Tue Oct 15, 1529, 28} \\ & \text{Tue Oct 15, 1529, 28} \\ & \text{Tue Oct 15, 1528, 50} \\ & \text$	FIX.RSP.7_PMP_IN_STEY FIX.RSP_8_PMP_IN_STEY FIX.RSP_8_PMP_IN_STEY FIX.RSP_9_PMP_SPEED_IND (Low) FIX.OPP_WET_WELL_LVL_HI.SP (Low) FIX.OPP_WET_WELL_LVL_HI.SP (Low) FIX.OPP_RSP_VW_LEVEL_SP (High) FIX.OPP_RSP_NEUTRAL_SPD_SP (High) FIX.OPP_RSP_GAS_LVL_HL_M FIX.OPP_FLOW (Low) FIX.OPP_CO_GAS_LVL_HI_SP (Low)		← ◆ ●
			Back To Index

Alarm Summary

The **Alarm Summary** page (accessible from the **Root Menu** page) also mimics a corresponding page in the ScadaPhone Windows application:

			ScadaPho	one Alarm Summary X + X
			$\leftrightarrow \rightarrow c$	
ScadaPhone : Unre File Mode Options	gistered (00:54:01 Remaining In Trial Period) Window Logs Modem(s) Web Server	ScadaLink TTP Schedul	•	ScadaPhone Active Alarm Summary Active: 34 Acked: 28 🗌 Hide Acked Alarms
C:\ScadaTEC\ScadaPho Logs Summary (34	one\Projects\iFixAlarmBrowserDemo) Alarms (133) Discretes (463) Analogs (19	6) Strings (0) Contacts (9)		Ack OPP_AS_CO_LEVEL_SCALED OPP ACCESS SHELTER CO GAS LEVEL (Low)
<u>Float</u> <u>Ack</u> A <u>ck</u> All Alarm Group	Disable Status Alarm Name	Reports Status		Reports=1; Low Alarm (00:06:27), Awarting Phone Ack (00:03:53) WTP_FIX.OPP_H2S_GAS_LVL_H_ALM
WTP (3)	FIX.OPP_AS_CO_LEVEL_SCALED FIX.OPP_H2S_GAS_LVL_H_ALM	1 Low Alarm (00:0 0 Active (00:04:40)		Ack OPP H2S GAS LEVEL HIGH ALARM Reports=0; Active (00:06:26), Acked At Trigger Time
3 WWTP (31) 2 3	FIX.OPP_NTRL_SPD_ALM FIX.OPP_NTRL_SPD_ALM FIX.OPP_PR_H2S_LEVEL_SCALED FIX.OPP_PR_H2S_LVL_H_ALM	0 Active (00:04:37) 0 Active (00:04:39) 0 Low Alarm (00:0 0 Active (00:04:39)		Ack OPP_WET_WELL_LEVEL_HI_ALM OPP WET WELL LEVEL HIGH ALARM Reports=0: Active (00:06:23), Acked At Trigger Time
4 5 6 7	FIX.OPP_RSP_EN_PMP_ROT FIX.OPP_RSP_LAG_PMP_SS_DLY_SP FIX.RSP_7_MONITOR_SYS_FAULT FIX.RSP_7_PMP_AVAILABLE	0 Active (00:04:39) 0 Low Alarm (00:0 1 Active (00:05:04) 0 Active (00:05:04)	• •	Ack OPP_SP PUMP NEUTRAL SPEED ALARM Reports=0; Active (00:06:25), Acked At Trigger Time
5 9 10 11	FIX.RSP_7_PMP_IN_LAG FIX.RSP_7_PMP_REM_HAND FIX.RSP_8_DISCHARGE_VLV_OPEN FIX.RSP_8_ETM_ETM_TOTAL	1 Active (00:05:02 0 Active (00:05:01 0 Active (00:04:55 0 Low Alarm (00:0	• •	Ack OPP PUMP ROOM H2S GAS LEVEL_SCALED OPP PUMP ROOM H2S GAS LEVEL (Low) Reports=0; Low Alarm (00:06:25), Acked At Trigger Time
12 13 14	HX.KSP_8_PMP_AUTO_START FIX.RSP_8_PMP_CALL FIX.RSP_8_PMP_FAULT	0 Active (00:04:55 0 Active (00:04:54 0 Active (00:04:52) 0 Active (00:04:52)		www.p.FIX.OPP_PR_H2S_LVL_H_ALM
10:09:29 Kun Wode : [W	wire J Awaiting Phone Acknowledgements (00	(op: to remaining)		Ack Selected Alarms J Main Menu J T J

From this page, the user can acknowledge alarms individually by simply clicking the associated **Ack** button, or select multiple alarms by placing check-marks in the leftmost column and clicking the **Ack Selected Alarms** button.

If the logged-in **User** has **Alarm Acknowledgement** security access (or higher), a confirmation message will be displayed; otherwise, a rejection message will be displayed.



Note that the User Access Levels are enforced for all operations within the Web Server interface; acknowledging alarms requires Alarm Ack access (just as changing tag values in the Tag List page via the Modify buttons requires Data Entry access or higher).

Scheduler

Access to view and modify **Contact Scheduling** is also supported by the Web Server interface. Users having **Schedule Change** or **Supervisor** access can make modifications to the **Scheduler**:

ScadaPhone Scheduler X	+	- 🗆 X							
← → C ☆ ③ localhost:81/5	Scheduler?SID=15.165729.469	☆ 🖪 :							
ScadaPhone Scheduler									
Alarm Group: WTP									
Action Schedule Names	Day-Of-Week Defaults	Contact List In reporting sequence							
2019-10-15(Tue) 2019-10-16(Wed) Weekday Weekend Kew Edit Delete	MON: Weekday TUE: Weekday WED: Weekday THU: Weekday FRI: Weekday SAT: Weekend SUN: Weekend	Bob (Duty) Dave (Day) Supervisor Dave (Duty) (OFF-DUTY) Bob (Day) (OFF-DUTY) IP Modem Contact							
Delete Expired	Upcoming 24 Hours	Edit Contact							
Special Schedule Calendar	Check Schedule Holes								
Override Bit: LocalAnnounceme Override Action: Announce, then c	Contact Availability Schedule								
	Main Menu								

Once again, this web server page is modeled after its Windows GUI counterpart, but adjustments have been made to make it more accessible from a smartphone or tablet. On a small screen, the page retains its horizontal layout and the user can scroll to the right to perform **Contact Schedule** operations or scroll to the left to perform **Action Scheduling** modifications:

🚛 AT&T 🗢	5:16 PM	⋪ 48% 🔳	🔐 AT&T 📚	5:16 PM	⋪ 48% 🔳		
АА	192.168.0.3	5	АА	192.168.0.3	S		
	ScadaPhone Schedu	ller		ScadaPhone Scheduler			
A	Alarm Group: WTP			Alarm Group: WTP			
Action Sche	dule Names	Day-Of-Week De	Con	tact List In reporting sequence			
2019-10-15(Tue)	MON: Weekday		Bob (Duty)			
2019-10-160	Wed)	TUE: Weekday		Dave (Day)			
Weekday	(VCu)	WED: Weekday		Supervisor			
Weekend		THU: Weekday	∧ □	Dave (Duty) (OFF-DUTY)			
liteonona		FRI: Weekday	-∕ ∥⊡	Bob (Day) (OFF-DUTY)			
		SAT: Weekend	IP Modem Contact				
New	Edit Delete	SUN: Weekend					
Dele	ete Expired	Upcoming	E	lit Contact D Link Conta	acts		
Special So	chedule Calendar	Check Sche	s /	Add/Remove Contacts			
Override	Bit: LocalAnnounceme	ntBit	C	Contact Availability Sch	edule		
Override Acti	ion: Announce, then ca	II					
	Main Menu			Main Menu			
1	<u>ک</u>		1	<u>ф</u>			
N		~~ ~			· · ·		

The schedule-editing controls, which display as **pop-up windows** in the ScadaPhone desktop GUI, have been implemented as **separate pages** in the web server:



📲 AT&T 🗢	5:41 PM	⋪ 45% 🔳	•III AT&T 🗢	5:42 PM	⋪ 45% 🔳	📲 AT&T 🗢	5:41 PM	⋪ 45% 🔳				
AA	192.168.0.3	C	АА	192.168.0.3	5	АА	192.168.0.3	S				
ScadaPhone Scho Ala	eduler - Add/Remove Irm Group: WTP	e Contacts	ScadaPhone Alarm Contact Information			ScadaPhone "Schedule Holes"						
Available Contact Bill (Duty) Tom (Day) Tom (Duty)	s Selected Bob (Duty Dave (Day Superviso Dave (Dut Bob (Day) IP Modem	d Contacts) /) r y) Contact	Contact: Dave (Day) Enabled Contact Phone Number: 555-1234 Call Persistence: Based Upon: O Time O Count 1 Attempt			Contact: Dave (Day)						
	Cancel		Contact Pe Based Upor	rsistence: h: Time Count 1 Attempt ut: OK Cancel			ОК					
< >	Ċ M	G	<	> 🗘 🕮) (C)	< >	> <u>Ĉ</u> (n G				

This collection of control pages allows the system administrator to make the vast majority of necessary scheduling adjustments from remote.

Security

As was mentioned at the beginning of this document, remote access to the ScadaTEC Web Server interface is **password protected**, and the password-protected access is **multi-tiered**. The **hierarchy** of access levels is as follows:

- Supervisor
- Schedule Change (ScadaPhone only)
- Data Entry
- Alarm Ack (ScadaPhone only)
- Limited (for viewing statuses only)

Additionally, pages will only be served to clients referencing a valid **Session ID**, the **Session ID** is assigned at the time of login and expires after either a **log-out** or a **time-out**.

If a user logs in, interacts with a few pages, and then forgets to log-out, the session will be terminated due to **Session Inactivity**.

ScadaPhone Web Server Login × +	- n x				
$\leftarrow \rightarrow C \land (i) localhost 81/? $	Logging In	× +	ScadaPhone Root Menu X +		×
	$\ \ \leftrightarrow \ \ \Box \ \ \bigtriangledown$	localhost:81/SubmitLogin?EL=53677	4 → C ∧ ① localbact/81/PostMonu/2010-15/212647.162		
Log In	→	ScadaPhone HTTP Server by ScadaTEC 6.2.30	System Status Logs Menu Alarm Summary Scheduler Tag Values Log Out	X	
ScattaPhone Root Menu x +	- 0 X				
→ C A @ Incollect 91/ReactManu/25ID=15 211905 495	ScadaPhone Se	ssion Expired X +		- 0	×
C -> C - O Id O Idcalinosco //kootivienu:510=15.211005.496	< → C ☆	① localhost:81/Expired	ScadaPhone Web Server Login × +		
ScadaPhone Wy Seads TEC 5.2.3.0 Session Inactivity Auto Log-off in 00.00.14 Press OK to continue session OK Scheduler Tag Values Log Out	•	ScadaPhone Web Server by ScadaTEC £2.30 Session Expired Login (2)	C g in	☆	B) :
Log Out					

This improves system security by not allowing abandoned sessions to remain open and accessible to unauthorized computer users.

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