

WS3500 — Metago[®] InSite™

994-T066 Rev C March - 2016

About this Manual

This manual is divided up into chapters which generally correspond to the options in the pull-down menu of the Metago InSite[™] web page:

Below is a brief description of what can be found on the various InSite[™] web pages:

Overview — this section gives an overview of Metago InSiteTM and how to navigate through the various displays.

ALARM Summary — this section describes the opening web page, the ALARM Summary.

Browse Database — the Browse Database page contains all the point definitions, regardless of point type that are configured on the RTU. Also within this page, you can force a point to a known state or value (troubleshooting tool).

I/O Module Points — the I/O Module Point page displays all the inputs, outputs, and Health points associated with the configured I/O Modules. From the I/O Module Control page, you can issue controls.

TBOS Points — the TBOS Point pages show all the TBOS points associated with any configured TBOS serial port. From the TBOS Commands page, you can issue controls.

Operations History Displays — from the Operations History Displays page you gain access to the two history files TL1 Event Log and the Operations Log. The TL1 Event Log shows the autonomous TL1 messages while the Operations Log shows the control messages that were issued.

TABS Points — the TABS Point pages show all the TABS points associated with any configured TABS serial port. From the TABS Commands page, you can issue controls.

INACS Points — the INACS Point pages show all the INACS points associated with any configured INACS serial port. From the INACS Commands page, you can issue controls.

DS5000 Points — the D5000 Point pages show all the DS5000 points associated with any configured DS5PA serial port. From the DS5000 Commands page, you can issue controls.

E2A Points — the E2A Point pages show all the E2A points associated with any configured E2A serial port. Information presented in this chapter is an overview only. Greater detail is provided in the E2A supplement (pn# 994-T080) that is shipped together with any WS3500 equipped with the E2A interface module.

System Information— the System Information page shows information about the unit and configuration which is not available on other InSite[™] pages.

Point AID Descriptions — this appendix lists the point AID syntax and in some cases the default point configurations of the various points that the WS3500 support.

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REVISION HISTORY

Rev Level	Ву	Issue Date	Reason for Reissue
А	GB	November, 2007	First Release
В	PL	January, 2016	Major Revision for new Manager (4.4.x & newer) and Firmware (4.02.y & newer) functions
С	PL	March, 2016	Improve description of how'No User Info' in Manager affects various Insite screens. Correct TABS address notation.



Overview

In order to view an RTU's configuration details and alarm summary via the InSite[™] web browser, you must have purchased the WS3500 Metago InSite[™] License, part number 567-T067. If you have purchased the InSite[™] license, make sure you have enabled this option on the RTU (refer to the Metago Manager/Metago Manager LITE manual). Please note that with the more basic InSite[™] Lite (which is included with every WS3500) only the alarm summary page will be available. In specific cases, both InSite[™] and InSite[™]Lite will not be available if they have been disabled at the Metago Manager level. Please consult the Metago Manager Manual (pn# 994-T061) for more information.

To access the InSite[™] web browser on a particular RTU, enter the RTU's IP Address in the Address field on your web browser. If entering the RTU's IP Address doesn't work, talk to your Network Administrator to find out the network name for the RTU IP Address and enter the name instead.



The Alarm Summary display appears by default as the opening display.

Navigating through the displays

At the top of each page is a header row. Contained within the header row is a pull-down selection menu and a REFRESH button. To access a particular page, select the down arrow (with mouse button one) in the Select Item list. A pull-down menu appears. Select the appropriate item from the list. To refresh the page, click on the REFRESH button.



ALARM Summary

The ALARM Summary is the opening page. Any point that is configured as enabled and is in alarm will appear on the ALARM Summary page.



Figure 1 Alarm Summary

The alarms are grouped according to priority, with critical alarms listed first, then major, minor, and routine. Points with a priority of NA are never displayed. Within each priority the alarms are listed in chronological order, the newest alarm at the top of the list. The background color of the alarm point reflects the priority of the alarm.

Alarm Priority (SV)	Alarm Color
Critical (CR)	Red
Major (MJ)	Orange
Minor (MN)	Yellow
Routine (RN)	Blue
Not Affecting (NA)	Grey (Note: Except for a Derived Alarm, NA alarms do not show in the Alarm
	Summary, only in the relevant sub-pages)

Table 1 Alarm Colors

The ALARM Summary refreshes automatically every 60 seconds. To refresh the ALARM Summary manually, click on the Refresh button in the Web Browser Toolbar or the REFRESH button in the header row.

<u>Note:</u> General Alarms and Derived Alarms are presented in separate summaries and left justified, while alarm points that are constituents of a Derived alarm are presented within the Derived Summary and right justified. Please see the Derived Alarm section for more information about Derived Alarms.

For each point, the following parameters are displayed:

- *Point AID* The point AID (access identifier) identifies the entity in the network element to which a message pertains. The AID is a read-only field that is automatically generated by Metago® Manager. Refer to Appendix A Point AID Descriptions for a complete description of the point AID syntax.
- *Number* The point number is displayed in brackets () just below the Point AID. The number corresponds to the point number of the point in the browse database.
- Description The description field is a detailed text description of the point. It is comprised of a maximum of 50-characters. To view the full description of the point, move the cursor over the point description field. The entire description will be displayed in a temporary window. Note: you must have Internet Explorer 5.5 or above to see the full 50-character description.
- Severity (SV) There are five different levels of alarm severity (SV), which can be
 assigned to a point. Going from highest to lowest severity, the levels are CR, MJ, MN,
 RN, and NA. Each priority is assigned a color, when a point is in alarm, the point will
 be displayed in the background alarm severity color. Refer to *Table 1* on page 2 for
 the alarm severity colors.
- Service effect (EFF) There are two possible service effecting values SA, which is service effecting or NSA, which is not service effecting. This parameter is a component of the TL1 message and does not affect the alarm processing on a point.
- *CLLI* The Common Language Location Identifier (CLLI) is an 11-character free format text field that is reported in the TL1 alarm message. The CLLI is commonly used to identify the site location of the alarm point.
- *WG* The workgroup (WG) is a 2-character user-defined text field that is reported in the TL1 alarm message. The workgroup is generally used as a filtering parameter for alarms.
- *Time* —The time field displays the date and time when the specific event occurred. The form is day month date hh:mm:ss yyyy, for example Tue Apr 30 10:00:23 2002.
- *View button* You can click on the view button (magnifying glass) to display the in-depth point configuration of the specified point. The configuration parameters of the point vary depending on the point type.



Browse Database

To access the Browse Database page, select the Browse Database from the pull down menu. The Points page appears.

The Points page contains all the points that have been configured and downloaded to the RTU. The background color of the points reflects the alarm state of the point (refer to *Table 1 Alarm Colors* on page 2).

	Select Item D	×		REFRESH	InSite
	RTU17	Points (1 to 10) max 1309 Tue Aug 27	14:50:45 2002		
	Point AID (Number)	Description	CLLI	Value (Hex) (Dec) View F SCALED	orce
	TABS-5-0-0-1 (1)	TABS INPUT 1 - This is a	CalgaryTest	(0x00)(0) CLEAR	orce
ATTACK AT	TABS-5-0-0-2 (2)	TABS INPUT 2 - This is	CalgaryTest	(0x00)(0) CLEAR	orce
	TABS-5-0-0-3 (3)	TABS INPUT 3 - This is a	CalgaryTest	(0x00)(0) CLEAR	orce
	TABS-5-0-0-4 (4)	TABS INPUT 4 - This is	CalgaryTest	(0x00)(0) CLEAR	force
	TABS-5-0-0-5 (5)	TABS INPUT 5 This is a C	CalgaryTest	(0x00)(0) CLEAR	force
	TABS-5-0-0-6 (6)	TABS INPUT 6 This is a M	CalgaryTest	(0x00)(0) CLEAR	
THAT I	TABS-5-0-0-7 (7)	TABS INPUT 7 This is a M	CalgaryTest	(0x00)(0) CLEAR	orce
	TABS-5-0-0-8 (8)	TABS INPUT 8 This is a R	CalgaryTest	(0x00)(0) CLEAR	iorce
	TABS-5-0-0-9 (9)	TABS INPUT 9 This is a C	CalgaryTest	(0x00)(0) CLEAR	orce
	TABS-5-0-0-10 (10)	TABS INPUT 10 This is a	CalgaryTest	(0x00)(0) CLEAR	force
	START «PREV		XT > NEXT >>	END	
		Goto Point→			

🐨 Westronic

Figure 2 Browse Database page

For each point, the point AID, point number, description, and CLLI code, value of the point are displayed along with a view and force button. The points are listed in the table in numerical order, based on the point number, starting with the lowest number. A maximum of ten points are displayed per page. Refer to Appendix A - Point AID Descriptions for a complete description of the point AID syntax

At the bottom of the page, are navigational buttons to help you access the point you are looking for quickly. In the Goto Point -> box, enter the browse database point number (displayed in brackets in the Point AID column) you wish to view and click on the Goto Point -> button. This will take you directly to that point.

Viewing the Point's Definition

Click on the View button (magnifying glass) to call up the database pop-up page.

🗿 http://172.16.6.79/cgi-bin/point_info.cgi?0 - Microsoft Internet Explorer 📃 🔲 🗙				
Point 1				
TYPE	(0x01)=DIGITAL			
FLAGS	M:0 ,R:0x01 ,U:0x01 ,AP:0x0000000			
DESCRIPTION	TABS INPUT 1 - This is a Critical TABSAlarm Point			
POINT AID	TABS-5-0-0-1			
CLLI	CalgaryTest			
WORK GROUP	SW			
UNITS				
OCR TIME	Tue Aug 20 11:00:31 2002			
ALARM STATE,EFFECT	CL ,NSA			
ALM STATE	1			
CUR STATE	0			
SEVERITY	(0x06)=CR			
CONDITYPE	(0x00)=			
EFFECT	(0x05)=NSA			
(HEX),DEC,SCALED	(0x0), 0, 0.000000			
SNMP OID	12.5.0.0.1			
PID	0 (0x0) 0			
CHID	(0x0)0			

Figure 3 A typical Point Definition page

Forcing a Point

Forcing a point is often used as a diagnostic/testing tool when connecting a WS3500 to alarm points. Note: If the "No Force Points" option is enabled in Manger the following screens will not appear and is replaced by a "Force Points Restricted" banner.

To force a point to a known value,

1. Click on the Force button. The Force Point Request page appears.

Force Point Request - Point #2059

	Remote Temperature 1
User:	
Password:	
Raw Value:	
	Send Request

2. Enter your user name, password and raw value you wish to force the point to. For discrete points this value will be either 1 or 0.

3. Click on Send Request to send the request. A confirmation window appears.

Remote Temperature 1
ANALOG POINT FORCE: Report Flags: 01 Update Flags: 01 Last Reported: 250 Previous: 250 Forced: 100 Change: 150 DeadBand: 0 DB Event: YES
Force Request COMPLETED
Close Browser Window or use Back to Resubmit
Close Window

Fo	orce	Point	Request -	Point	#2059
			Leve acov	T OHIC	12002

4. Click Close Window to close the window and return to the points page.

Note: in the Force Point Request page, you may click on the magnifying icon to view the configuration of the point.



I/O Module Points

To access the I/O Module Points page,

1. Select I/O Module Points item from the pull-down menu. The I/O Module Data page appears. This is an intermediate page, containing a button corresponding to each configured I/O module. The maximum number of I/O modules per WS3500 is 8.



Figure 4 I/O Module Data page

2. Click on the button corresponding to the I/O module you wish to view. The I/O Module page will be displayed.



Figure 5 Individual I/O Module

The I/O Module page provides an overview of the state of the points that are configured on that particular I/O module. The points are displayed according to their type: INPUTS, CONTROLS, and HEALTH.

The INPUTS are displayed in four rows, with each square in each row representing a point (4 rows of 16 points). Point number one is displayed in the first row top left-hand corner and point number 64 would be the in the bottom right-hand corner of the fourth row. The background color of each square reflects the priority of the alarm. If the square is white, the point is not in alarm. Refer to *Table 1* on page 2 for the list of the alarm colors. To access the INPUTS Points page click on the INPUTS button.

The CONTROLS are displayed in one row, with control point one in the left-hand corner and control point 8 in the right-hand corner of the table. The state of the control is displayed as either CLOSED or OPEN. If the control point is closed, the background color of the square is gray. To access the Controls Points page click on the CONTROLS button.

There is one HEALTH point per configured I/O Module. The state of the health point is displayed as either CLEAR (0) or ALARM (1). If the control point is in alarm, the background color of the square reflects the priority of the alarm. If the square is white, the point is not in alarm. Refer to *Table 1* on page 2 for the list of the alarm colors. To access the Health Points page click on the HEALTH button.

INPUTS page

For each INPUT point, the point AID, point number, description, CLLI code, and value of the point are displayed along with a View button. The points are listed in the table in numerical order, based on the point number, starting with the lowest number at the top of the list. Every module input page contains 64 input points; you must use the scroll bar to view all the points. Refer to Appendix A - Point AID Descriptions for a complete description of the point AID syntax

If the points are in alarm, they will be displayed in the appropriate alarm color (refer to Table 1 Alarm Colors on page 2). If the point is not in alarm, the background color is white. The points are listed in numerical order (lowest point number at the top).

File Edit ⊻iew Favorites Iools Help				
· 🖓 🦂 🖓 🖉 🖸 🖞			-1	at 0
Back Forward Stop Refresh Ho	an Search Favorites Media History	u⊠ai Print I	≝ ∕ - ⊡ Edit Discuss D	ell Home Messenger
Address 🚳 http://172.16.6.79/				💌 🄗 Go Links
Metago Selec	t Item I>	REFRE	ESH In	Site
H	RTU17 Points - Module 1 Inputs - Po Tue Aug 27 15:31:15 2002	ints (1165 to 1228)		<u>.</u>
Point AID (Number)	Description	CLLI	Value	View
DISCRETE-1-1 (1165) This is 50.	characters in	CalgaryTest	(1) ALARM	
DISCRETE-1-2 (1166) 48V H VO	LT Major discr	CalgaryTest	(1) ALARM	Q OF
DISCRETE-1-3 (1167) 48V L VO	LT Minor discret	CalgaryTest	(1) ALARM	
DISCRETE-1-4 (1168) INV OUTP	'UT Routine disc	CalgaryTest	(1) ALARM	
DISCRETE-1-5 (1169) INV FUSE	Critical Disc A	CalgaryTest	(0) CLEAR	
DISCRETE-1-6 (1170) INV FAIL	Major Discrete	CalgaryTest	(0) CLEAR	
DISCRETE-1-7 (1171) INV XFR P	Minor Discrete A	CalgaryTest	(0) CLEAR	
DISCRETE-1-8 (1172) HIGH TEM	P	CalgaryTest	(0) CLEAR	
DISCRETE-1-9 (1173) LOW TEN	IP 1 000.00.00	CalgaryTest	(0) CLEAR	
DISCRETE-1-10 (1174) HIGH TEM	IP 2 000.00.00	CalgaryTest	(0) CLEAR	
DISCRETE-1-11 (1175) LOW TEN	IP 2 000.00.00	CalgaryTest	(0) CLEAR	
DISCRETE-1-12 (1176) HIGH TEM	æ 3 000.00.00	CalgaryTest	(0) CLEAR	
	Westronic			

Figure 6 I/O Module Inputs

Viewing the Point's Definition

Click on the View button (magnifying glass) to call up the database pop-up page for that particular point.

http://172.16.6.79/cgi-bin/pc	pint_info.cgi?1168 - Microsoft Internet Explorer	_ 🗆 🗵
	Point 1169	
TYPE	(0x01)=DIGITAL	
FLAGS	M:0 ,R:0x01 ,U:0x01 ,AP:0x00000000	
DESCRIPTION	INV FUSE Critical Disc Alarm prt.	
POINT AID	DISCRETE-1-5	
CLLI	CalgaryTest	
WORK GROUP	EN	
UNITS		
OCR TIME	Tue Aug 20 10:49:32 2002	
ALARM STATE, EFFECT	CL ,NSA	
ALM STATE	1	
CUR STATE	0	
SEVERITY	(0x06)=CR	
CONDTYPE	(0x00)=	
EFFECT	(0x05)=NSA	
(HEX),DEC,SCALED	(0x0), 0, 0.000000	
SNMP OID	6.1.5.0.0	
PID	0(0x0)	
CHID	0(0x0)	

Control Points

For each CONTROL point, the point AID, point number, description, CLLI code, and value of the point are displayed along with a view and issue button. The points are listed in the table in numerical order, based on the point number, starting with the lowest number at the top of the list. Refer to Appendix A - Point AID Descriptions for a complete description of the point AID syntax

If the points are closed, the value will display CLOSED and the background color will be gray. If the point is open, the value will display OPEN and the background color is white.

Within this display the point definition and issue controls can be accessed.

InSite - Microsoft Internet	Explorer							<u>- 0 ×</u>
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	<u>T</u> ools <u>H</u> elp	01 1 73	- ~					
Back Forward S	⊘ top Refresh	Home Search	Favorites Media	US Lar History Mail	Print Edit	Discuss	🗐 : Dell Home	Messenger
Address 🕘 http://172.16.6.79/							•	ç∂Go Links ≫
	igo 🛙	Gelect Item I>			REFRESH	Iı	۱S	ite
		RTU17 Points	- Module 1 Co Tue Aug 27 15:2	ontrols - Points (1229 to 3:38 2002	o 1237)	-1		
Point AID	(Number)	Descri	ption	CLLI	Value	View	Control	
DISCRETEC-1-1	1229) DISC	RETE OUTPUT 1		CalgaryTest	(0) OPEN	2	Issue	
DISCRETEC-1-2	(1230) DISC	RETE OUTPUT 2		CalgaryTest	(0) OPEN		Issue	Charles and
DISCRETEC-1-3	1231) DISC	RETE OUTPUT 3		CalgaryTest	(0) OPEN	R	Issue	100
DISCRETEC-1-4	1232) DISC	RETE OUTPUT 4		CalgaryTest	(0) OPEN	R	Issue	
DISCRETEC-1-5	1233) DISC	RETE OUTPUT 5		CalgaryTest	(0) OPEN		Issue	
DISCRETEC-1-6	1234) DISC	RETE OUTPUT 6		CalgaryTest	(0) OPEN		Issue	
DISCRETEC-1-7	1235) DISC	RETE OUTPUT 7		CalgaryTest	(0) OPEN		Issue	-
DISCRETEC-1-8	1236) DISC	RETE OUTPUT 8		CalgaryTest	(0) OPEN	R	Issue	Classific Street
1000	<u>2029</u> -			1-1460 2020	and the second s			165
		- 10.25 M	1		10.39	3		
<u> </u>			🐨 Westr	ronic				
(e)							Internet	

Figure 7 I/O Module Controls

Viewing the Point's Definition

Click on the View button (magnifying glass) to call up the database pop-up page.

http://172.16.6.79/cgi-bin/p	pint_info.cgi?1228 - Microsoft Internet Explorer	_ 🗆 ×
	Point 1229	
ТУРЕ	(0x01)=DIGITAL	
FLAGS	M:0 ,R:0x00 ,U:0x01 ,AP:0x0000000	
DESCRIPTION	DISCRETE OUTPUT 1	
POINT AID	DISCRETEC-1-1	
CLLI	CalgaryTest	
WORK GROUP	sw	
UNITS		
OCR TIME	Tue Aug 20 11:00:32 2002	
ALARM STATE, EFFECT	CL JISA	
ALM STATE	1	
CUR STATE	0	
SEVERITY	(0x02)=NA	
CONDTYPE	(0x00)=	
EFFECT	(0x05)=NSA	
(HEX),DEC,SCALED	(0x0), 0, 0.000000	
SNIMP OID	7.1.1.0.0	
PID	(0xE01E) 57374	
СНІВ	(0x1) 1	

Issuing Controls

Note: If the "No Controls" option is enabled in Manger the following screens will not appear and will be replaced by a "Controls Restricted" banner.

To issue a control, do the following:

1. Click on the Issue button for the point in question. The Control Operate Request window appears.

http://172.16.6.79/cgi-bin/operate_control.cgi?17?1228?DISCRETE_OUTPL	IT 1 - Microsoft Internet Explorer
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp	(B)
Back, Forward Stop Refresh Home Search Favorites	Image: Second
Address 💩 http://172.16.6.79/cgi-bin/operate_control.cgi?17?1228?DISCRETE%200UTPL	T%201 ✔ 🔽 🖉 Go Links ≫
Control Operate Re	quest Point #1229
	DISCRETE OUTPUT 1
User:	
Password:	
Action:	🕫 Operate 🗅 Release
Туре:	© Latch © Momentary, Fixed Time © Momentary, Input Time:ms © Flash
	Send Request
E Done	🦉 Internet

Figure 8 Control Operate Request

- 2. Enter your user name and password. Only users that have permission level of 3 or higher can issue controls.
- 3. Select the action you wish to perform, either Operate or Release.
- 4. Select the control type. The type of control determines the external control operation.

Latch - the control remains closed until it is released.

Momentary – the control closes for a set time and then is released. You have two choices, Momentary Fixed Time, which is one second in duration, or you can enter the input time in milliseconds.

Flash - the control will continuously open and close until the control is released.

5. Click on Send Request to send the control request (either operate or release). A confirmation window appears indicating whether the control was issued successfully or not. If the control was unsuccessful, the reason why is displayed below the point description (the configured description in this case is 'Door Open').

Control Operate Request Point #1

Door Open
Control Request ISSUED
Close Browser Window or use Back to Resubmit

The Output LEDs on the front panel of the WS3500 reflect the operation that was submitted. If the point was latched, the LED remains illuminated until the point is released. With a momentary type, the LED will be illuminated for the duration of the input time, and then released. With a flash control, the LED will continuously turn on and off.

6. Close the Browser Window to return to the Discrete Output display or click Back in the Standard Buttons toolbar to resubmit the control

All discrete control requests are logged in the Operations History Log. To view the log file, select Operations History Displays from the selection list in the header row, and then click on the Operations LOG button.



TBOS Points

To access the TBOS Data page, select TBOS Points from the item list in the pull down menu. The TBOS Data page appears.



Figure 9 TBOS Data page

This is an intermediate page, containing a button corresponding to each configured TBOS device. For every configured TBOS device, there will be three buttons: a Displays, Health, and Protocol Analyzer button.

The Displays button takes you to the TBOS Port Displays page which gives you an overview of the configured displays and commands, the Health button takes you to the Health Points page containing the TBOS health points configured for that port, and the protocol analyzer button takes you to the protocol analyzer page for that serial port. In *Figure 9*, only serial port 6 is monitoring a TBOS device.

TBOS Port Displays page

To access the TBOS Port Displays page,

- 1. Select TBOS Points from the selection item list in the header row. The TBOS Data page appears.
- 2. Click on the appropriate Display PORT button. The TBOS Port Displays page appears.



Figure 10 TBOS Port Displays

This page contains 8 DISPLAY buttons (DISPLAY 1 to DISPLAY 8) corresponding to the 8 displays, configured for each TBOS port. The squares above each button represent input points 1 - 64; each row contains 8 input points. The top row of squares correspond to TBOS input points 1 - 8 (point 1 in the upper left-hand corner of each box), the 2nd row are TBOS input points 9 - 16, etc. with TBOS input point 64 in the bottom right-hand corner of the box.

The background color of each square reflects the priority of the alarm. If the square is white, the point is not in alarm. Refer to *Table 1* and page 2 for the list of alarm colors.

To access the TBOS Points page, click on the appropriate DISPLAY button. The TBOS Points page displays the 64 TBOS input points configured on a specific TBOS display.

To access the TBOS Commands Points page, click on the appropriate COMMANDS button. The TBOS Command Points page displays the 64 TBOS control points configured on a specific TBOS display.

Viewing TBOS Input Points

The TBOS Points page displays the 64 TBOS input points configured on a specific TBOS display. To access the TBOS Points page,

- 1. Select TBOS Points from the selection item list in the header row. The TBOS Data page appears.
- 2. Click on the appropriate TBOS Display PORT button. The TBOS Port Display page appears.
- 3. Click on the appropriate DISPLAY button. The TBOS Points page appears.

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Point AID (Number)	Description	CLLI	Value Vie	w
TBOS-6-1-1 (140)	This is 50 characters in		(1) ALARM	
TBOS-6-1-2 (141)	48VH VOLT Major discr		(0) CLEAR	
TBOS-6-1-3 (142)	48VL VOLT Minor discret		(1) ALARM	
TBOS-6-1-4 (143)	INV OUTPUT Routine disc		(1) ALARM	
TBOS-6-1-5 (144)	INV FUSE Critical Disc A		(0) CLEAR	
TBOS-6-1-6 (145)	INV FAIL Major Discrete		(0) CLEAR	
TBOS-6-1-7 (146)	INV XFR Minor Discrete A		(0) CLEAR	
TBOS-6-1-8 (147)	HIGH TEMP		(0) CLEAR	
TBOS-6-1-9 (148)	LOW TEMP 1 000.00.00		(0) CLEAR	
TBOS-6-1-10 (149)	HIGH TEMP 2 000.00.00		(0) CLEAR	
TBOS-6-1-11 (150)	LOW TEMP 2 000.00.00		(0) CLEAR	
TBOS-6-1-12 (151)	HIGH TEMP 3 000.00.00		(0) CLEAR	
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Figure 11 TBOS Points

This page displays the 64 TBOS input points configured on the RTU for a particular display on a specific TBOS port. For each point, the point AID, point number, description, CLLI code, value of the point are displayed along with a view button (magnifying glass), which when selected displays the point configuration. Refer to Appendix A - Point AID Descriptions for a complete description of the point AID syntax

If the points are in alarm, they will be displayed in the appropriate alarm color (refer to Table 1 Alarm Colors on page 2). The points are listed in numerical order (lowest point number at the top).

Viewing TBOS Control Points

The TBOS Commands page displays the 64 TBOS control points configured on a specific TBOS display. To access the TBOS Commands page,

- 1. Select TBOS Points from the selection item list in the header row. The TBOS Data page appears.
- 2. Click on the appropriate TBOS Display PORT button. The TBOS Port Display page appears.
- 3. Click on the appropriate COMMAND button. The TBOS Command Points page appears.

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Point AID (Number)	Description	CLLI	Value Vi	ew Control
TBOSC-6-1-1 (652)	Not Assigned		(0) OPEN 🤤	Issue
TBOSC-6-1-2 (653)	Not Assigned		(0) OPEN 🤅	Issue
TBOSC-6-1-3 (654)	Not Assigned		(0) OPEN 🤤	Issue
TBOSC-6-1-4 (655)	Not Assigned		(0) OPEN 🤤	Issue
TBOSC-6-1-5 (656)	Not Assigned		(0) OPEN	Issue
TBOSC-6-1-6 (657)	Not Assigned		(0) OPEN	Issue
TBOSC-6-1-7 (658)	Not Assigned		(0) OPEN	k Issue
TBOSC-6-1-8 (659)	Not Assigned		(0) OPEN	Issue
TBOSC-6-1-9 (660)	Not Assigned		(0) OPEN 🗧	Issue
TBOSC-6-1-10 (661)	Not Assigned		(0) OPEN 🗧	Issue
TBOSC-6-1-11 (662)	Not Assigned		(0) OPEN	Issue
TBOSC-6-1-12 (663)	Not Assigned		(0) OPEN	Issue
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Figure 12 TBOS Command Points

This page displays the 64 TBOS control points configured on the RTU for a particular display on a specific TBOS port. For each point, the point AID, point number, description, CLLI code, value of the point is displayed along with a view button (magnifying glass), and an Issue button. Refer to Appendix A - Point AID Descriptions for a complete description of the point AID syntax.

The value of the control is displayed as either (0) OPEN or (1) CLOSED. To issue a control, click on the Issue button.

Issuing TBOS Controls

Note: If the "No Controls" option is enabled in Manger the following screens will not appear and will be replaced by a "Controls Restricted" banner.

To issue a control, do the following:

1. Click on the Issue button for the point in question. The Control Operate Request window appears.

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Figure 13 Issue TBOS Control

- 2. Enter your user name and password. Only users that have permission level of 3 or higher can issue controls.
- 3. Select the action you wish to perform, either Operate or Release.
- 4. Select the control type. The type of control determines the external control operation.

Latch - the control remains closed until it is released.

Momentary – the control closes for a set time and then is released. You have two choices, Momentary Fixed Time, which is one second in duration, or you can enter the input time in milliseconds.

Flash – the control will continuously open and close until the control is released.

5. Click on Send Request to send the control request (either operate or release). A confirmation window appears indicating whether the control was issued successfully or not. If the control was unsuccessful, the reason why is displayed below the point description (the configured description in this case is 'Door Open').

Control Operate Request Point #1

Door Open
Control Request ISSUED
Close Browser Window or use Back to Resubmit

6. Close the Browser Window to return to the Discrete Output display or click Back in the Standard Buttons toolbar to resubmit the control

All control requests are logged in the Operations History Log. To view the log file, select Operations History Displays from the selection list in the header row, and then click on the Operations LOG button.

Viewing TBOS Health Points

The TBOS Health Points page displays the 9 TBOS Health points that are automatically created for every configured serial TBOS port. To access the TBOS Health Points page,

- 1. Select TBOS Points from the selection item list in the header row. The TBOS Data page appears.
- 2. Click on the appropriate Health PORT button. The TBOS Health Points page appears.

Intelligent RTU	O Select Item I>	BEE	BESH I	S
	RTU17 TBOS Health Points - PORT 6 Thu Aug 29 09:00:49 2002	- Points (131 to 140)		
Point AID (Numbe	r) Description	CLLI	Value	View
HEALTH-6-0 (131)	TBOS PORT 6 FAIL		(0) CLEAR	2
HEALTH-6-1 (132)	TBOS PORT 6 DISP 1		(0) CLEAR	2
HEALTH-6-2 (133)	TBOS PORT 6 DISP 2		(0) CLEAR	2
HEALTH-6-3 (134)	TBOS PORT 6 DISP 3		(0) CLEAR	
HEALTH-6-4(135)	TBOS PORT 6 DISP 4		(0) CLEAR	
HEALTH-6-5 (136)	TBOS PORT 6 DISP 5		(0) CLEAR	9
HEALTH-6-6 (137)	TBOS PORT 6 DISP 6		(0) CLEAR	2
HEALTH-6-7 (138)	TBOS PORT 6 DISP 7		(0) CLEAR	Ð
HEALTH-6-8 (139)	TBOS PORT 6 DISP 8		(0) CLEAR	E.
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Figure 14 TBOS Health Points page

For each point, the point AID, point number, description, CLLI code, value of the point are displayed along with a view button (magnifying glass), which when selected displays the

point configuration. Refer to Appendix A - Point AID Descriptions for a complete description of the point AID syntax

If the points are in alarm, they will be displayed in the appropriate alarm color (refer to Table 1 Alarm Colors on page 2). The points are listed in numerical order (lowest point number at the top).

TBOS Port Protocol Analyzer

The protocol analyzer is a useful tool to check serial communications and to assist with diagnosing problems should they occur. For TBOS devices a simple poll sequence is shown followed by "OK" for successful polls, or "NR:-1" for non-returned (failed) polls. This first image shows successful polls:



Figure 15 TBOS Protocol Analyzer - Good Polling

This second image shows an example of failed polling. To create the screenshot, serial communications were physically disconnected:



Figure 16 TBOS Protocol Analyzer - Failed Polling

Reset TBOS Port

The Reset Port button in the Protocol Analyzer screen enables an InSite[™] user to reset any individual port without needing to reset the entire WS3500 or physically intervene with the unit. This feature (when licensed and/or enabled through Manager) is available in firmware version 4.02.05 or newer. Together with the protocol analyzer, port reset can be a helpful diagnostic tool when attempting to resolve serial communication issues. Reset will occur within 1 minute of issuing the command. Reset port requires the user to be of Level 3 or higher.

<u>Note</u>: If the "No Reset Ports" checkbox in Metago Manager has been enabled (checked) attempting to reset the port will bring up a new screen with a "Reset Restricted" banner.

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	User:				
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After the entry of a correct username and password, the reset command will be issued. A successful reset request appears as follows:

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		Reset Request I	SSUED			
	C	lose Browser Window or us	e Back to Resubmit			



Operations History Displays

There are two database history log files that are displayed via InSite™.

- TL1 Event LOG autonomous messages are logged to the TL1 Event Log file. These messages are contained in a circular buffer containing 2048 entries in firmware 4.02.05 and newer. Older versions have smaller log files. The log file is retained following an RTU reboot on firmware 4.02.05 and newer when the 'Persistent Logging' feature is enabled via Manager. The TL1 LOG is NOT retained with older firmware versions.
- Operations LOG control operations are logged to the Operations Log file. These
 messages are contained in a circular buffer containing up to 512 entries. The log file is
 retained following an RTU reboot on firmware 4.02.05 and newer when the 'Persistent
 Logging' feature is enabled via Manager. The Operations LOG is NOT retained with
 older firmware versions.

Both files, display the most recent entry at the top of the page in a top-down fashion.

To access either of the history files, select Operations History Displays from the item list in the pull down menu. An intermediate display, containing the TL1 Event LOG and Operations LOG buttons is displayed.

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Figure 17 Database History display

Click on the appropriate button to display either the TL1 Event Log or the Operations Log.

TL1 Event LOG

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Westronic_Lab.12 16:01.05 15:46:31 A 00005 REPT EVT EQPT	~
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Select the TL1 Event LOG button to display the logged autonomous messages.

Figure 18 TL1 Log file

The TL1 event log contains the TL1 autonomous messages. The messages are contained in circular 2048 entry buffer in current firmware.

Each autonomous message is displayed on one row. Refer to the WS3500 Metago® RTU Technical Manual for the format of the TL1 autonomous messages.

<u>Note</u>: The TL1 Log's appearance in InSite[™] is NOT affected by checking the "No System Info" box in Metago Manager.

Clearing the TL1 log

The TL1 log can be cleared via InSite[™] whether or not persistent logging is enabled. Clearing the TL1 Log requires that the user is Level 3 or higher. When the Clear TL1 LOG button is clicked the following screen will appear:

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		User:	MTC			
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Figure 19 Clear TL1 Log Request

After the entry of a correct username and password, the clear log command will be issued. A successful clear request appears as follows:

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Operations Log

Select the Operations LOG button to display the logged control operations.

Note: When the "No System Info" box is checked in Metago Manager, the Operations Log will NOT be visible and will be replaced by an "Operations Log Restricted" banner.

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Figure 20 Operations Log file

The logged control operations are contained in a circular 512 entry buffer with current firmware. The following messages are logged:

- Discrete control operation requests via TL1 and InSite™.
- TL1 command failures.
- TL1 activate user commands including clear Log requests
- Successful and unsuccessful Manager logins and attempts, upgrades to points, configuration and firmware changes via Manager.

<u>Note:</u> With older WS3500 firmware the Operations log file is not retained after a reset of the RTU. With 4.02.05 and newer firmware, Persistent Logging can be enabled via Manager so the information will be retained following a reset.

The format of each message is

Date time year: [point description]

User:username, Level:x, via method, Operate Request x

Where:

Date is in the format ddd mmm n, for example Fri Mar 18

Time is in the format HH:MM:SS, for example 12:23:05.

Year is displayed in its entirety, for example 2016.

Point description is the description of the point that you issued and is enclosed in square brackets, for example [Lights].

User is the name of the user who issued the control, for example User:MTC.

Level displays the permission level of the user that issued the control, for example ${\tt Level:}5$

The method is how the message was issued, via INSITE , TL1, COR (I/O correlation.)

Operate Request will display whether the control was successful and what control was issued or if the control failed and why. An example of a successful control would be Operate Request Issued, Latch. Indicating the person issued a latched control. An example of a failed operation would be Operate Request Rejected - User login FAILED!

Clearing the Operations Log

The Operations log can be cleared via InSite[™] whether or not persistent logging is enabled. Clearing the Operations log requires that the user must be of Level 5. When the Clear OPERATIONS LOG button is clicked the following screen will appear:

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		User:	MTC	
		Password:	••••••	
			Send Request	

Figure 21 Clear Operations Log Request

After the entry of a correct username and password, the clear log command will be issued. A successful clear request appears as follows:

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TABS Points

To access the TABS Data page, select TABS Points from the item list in the pull down menu. The TABS Data page appears listing all TABS devices presently configured, either via Serial or TABS-IP collection. For the remaining navigation shown in this chapter, TABS serial and IP appear and behave in the same manner.

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Figure 22 TABS Data page

This is an intermediate page, containing a pull-down selection menu listing each address (0 - 31) that can be configured on each port, plus a Health button and Protocol Analyzer button for each configured port or session.

Selecting a port and TABS address item from the pull-down list takes you to the TABS Port Displays page which gives you an overview of the configured displays and commands. The Health button takes you to the Health Points page containing the TABS health points configured for each port or session, and the protocol analyzer button takes you to the protocol analyzer page for each port or session. In *Figure 22*, serial port 5 is monitoring a TABS device and there is one TABS-IP session configured.

TABS Port Displays page

To access the TABS Port Displays page,

1. Select TABS Points from the selection item list in the header row. The TABS Data page appears.

2. Select the port and TABS address from the pull-down list. The TABS Port Displays page appears.



Figure 23 TABS Port Displays page

This page contains DISPLAY buttons corresponding to the configured displays for that particular TABS address. The display numbering is one based (possible values DISPLAY 1 to DISPLAY 256 for short addressing, 1 to 65536 for long addressing). The squares above each button represent input points 1 - 64; each row contains 8 input points. The top row of squares correspond to TABS input points 1 - 8 (point 1 in the upper left-hand corner of each box), the 2nd row are TABS input points 9 - 16, etc. with TABS input point 64 in the bottom right-hand corner of the box.

The background color of each square reflects the priority of the alarm. If the square is white, the point is not in alarm. Refer to *Table 1* and page 2 for the list of alarm colors.

The COMMANDS buttons represent the configured commands (controls) on each display In the case of *Figure 23*; controls were only configured on display 1.

The Goto Display -> button allows you quick access to a specific display. Simply, enter the number of the display you wish to view in the text area and then click the Goto Display -> button.

Viewing TABS Input Points

The TABS Points page displays the 64 TABS input points configured on a specific TABS display. To access the TABS Points page,

- 1. Select TABS Points from the selection item list in the header row. The TABS Data page appears.
- 2. Select the port and TABS address from the pull-down list. The TABS Port Displays page appears.
- 3. Click on the appropriate DISPLAY button. The TABS Points page appears.

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Metago	Select Item I>		InS
		REF	RESH
R	TU17 TABSA Points - PORT 5 Addr 0 Dis	play 1 - Points (1 to	64)
HTH HTH	Thu Aug 29 11:16:09 2002	H	
Point AID (Number)	Description	CLLI	Value View
TABS-5-0-0-1 (1)	TABS INPUT 1 - This is a	CalgaryTest	(0) CLEAR
TABS-5-0-0-2 (2)	TABS INPUT 2 - This is	CalgaryTest	(0) CLEAR
TABS-5-0-0-3 (3)	TABS INPUT 3 - This is a	CalgaryTest	(0) CLEAR
TABS-5-0-0-4 (4)	TABS INPUT 4 - This is	CalgaryTest	(0) CLEAR
TABS-5-0-0-5 (5)	TABS INPUT 5 This is a C	CalgaryTest	(0) CLEAR
TABS-5-0-0-6 (6)	TABS INPUT 6 This is a M	CalgaryTest	(0) CLEAR
TABS-5-0-0-7 (7)	TABS INPUT 7 This is a M	CalgaryTest	(0) CLEAR
TABS-5-0-0-8 (8)	TABS INPUT 8 This is a R	CalgaryTest	(0) CLEAR
TABS-5-0-0-9 (9)	TABS INPUT 9 This is a C	CalgaryTest	(0) CLEAR
TABS-5-0-0-10 (10)	TABS INPUT 10 This is a	CalgaryTest	(0) CLEAR
TABS-5-0-0-11 (11)	TABS INPUT 11 This is a	CalgaryTest	(0) CLEAR
TABS-5-0-0-12 (12)	TABS INPUT 12 This is a	CalgaryTest	(0) CLEAR
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Figure 24 TABS Points

This page displays the 64 TABS input points configured on the RTU for a particular TABS port, display and address. For each point, the point AID, point number, description, CLLI code, value of the point are displayed along with a view button (magnifying glass), which when selected displays the point configuration. Refer to Appendix A - Point AID Descriptions for a complete description of the point AID syntax

If the points are in alarm, they will be displayed in the appropriate alarm color (refer to Table 1 Alarm Colors on page 2). The points are listed in numerical order (lowest point number at the top).

Viewing TABS Control Points

The TABS Commands page displays the 64 TABS control points configured on a specific TABS display. To access the TABS Commands page,

- 1. Select TABS Points from the selection item list in the header row. The TABS Data page appears.
- 2. Select the port and TABS address from the pull-down list. The TABS Port Displays page appears.
- 3. Click on the appropriate COMMAND button. The TABS Command Points page appears.

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FIE	R	TU17 TABS Co	mmands - PO Thu Aug 2	RT 5 Addr 0 1 29 12:51:41 200	Display 1 - 2	Points (193 to 2	56)	ß	UAT	•
	Point AID (Number)		Description		CLLI	Value	•	View	Control	
TAB	SC-5-0-0-1 (193)	TABS OUTPUT 1 - T	his is	Cal	garyTest	(0)	OPEN	3	Issue	
TAB	SC-5-0-0-2 (194)	TABS OUTPUT 2 - T	his i	Cal	garyTest	(0)	OPEN	3	Issue	
TAB	SC-5-0-0-3 (195)	TABS OUTPUT 3 - T	his is	Cal	garyTest	(0)	OPEN	3	Issue	
TAB	SC-5-0-0-4 (196)	TABS OUTPUT 4				(0)	OPEN		Issue	
TAB	SC-5-0-0-5 (197)	TABS OUTPUT 5				(0)	OPEN	2	Issue	
TAB	SC-5-0-0-6 (198)	TABS OUTPUT 6				(0)	OPEN	3	Issue	
TAB	SC-5-0-0-7 (199)	TABS OUTPUT 7				(0)	OPEN	2	Issue	
TAB	SC-5-0-0-8 (200)	TABS OUTPUT 8				(0)	OPEN	2	Issue	
TAB	SC-5-0-0-9 (201)	TABS OUTPUT 9				(0)	OPEN	2	Issue	
TAB	SC-5-0-0-10 (202)	TABS OUTPUT 10				(0)	OPEN	R	Issue	
TAB	SC-5-0-0-11 (203)	TABS OUTPUT 11				(0)	OPEN	R	Issue	
TAB	SC-5-0-0-12 (204)	TABS OUTPUT 12				(0)	OPEN	R	Issue	
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Figure 25 TABS Command Points

This page displays the 64 TABS command (control) points configured on the RTU for a particular TABS port, display and address. For each point, the point AID, point number, description, CLLI code, value of the point are displayed along with a view button (magnifying glass), which when selected displays the point configuration, and an Issue button, for issuing controls. Refer to Appendix A - Point AID Descriptions for a complete description of the point AID syntax

The value of the control is displayed as either (0) OPEN or (1) CLOSED. To issue a control, click on the Issue button.

Issuing TABS Controls

Note: If the "No Controls" option is enabled in Manger the following screens will not appear and will be replaced by a "Controls Restricted" banner.

To issue a control, do the following:

1. Click on the Issue button for the point in question. The Control Operate Request window appears.

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Address) http://172.16.6.79/	/cgi-bin/operate_control.	cgi?17?192?TABS%20	OUTPUT%201%2	0%20-%20This%20i	is%20a%20Critic	al%20TABS%20C	ontrol%20P	▼ 🖉 Go Links ≫
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		Control	Operate R	equest Pom	t #193			
				TABS OU	TPUT 1 -	This is a C	ritical	
					TABS Co	ntrol P		
			User:]			
			Password:					
			Action:	Operate ○	Release			
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Figure 26 TABS Control Request

- 2. Enter your user name and password. Only users that have permission level of 3 or higher can issue controls.
- 3. Select the action you wish to perform, either Operate or Release.
- 4. Select the control type. The type of control determines the external control operation.

Latch - the control remains closed until it is released.

Momentary – the control closes for a set time and then is released. For TABS control points, only the fixed time of 400 milliseconds is supported.

Flash – is not supported for TABS.

5. Click on Send Request to send the control request (either operate or release). A confirmation window appears indicating whether the control was issued successfully

or not. If the control was unsuccessful, the reason why is displayed below the point description (the configured description in this case is 'Door Open').

Door Open
Control Request ISSUED
Close Browser Window or use Back to Resubmit

Control Operate Request Point #1

6. Close the Browser Window to return to the previous display or click Back in the Standard Buttons toolbar to resubmit the control

All control requests are logged in the Operations History Log. To view the log file, select Operations History Displays from the selection list in the header row, and then click on the Operations LOG button.

Viewing TABS Health Points

The TABS Points page displays the TABS health points that are automatically created on a configured serial TABS port. To access the TABS Health Points page,

- 1. Select TABS Points from the selection item list in the header row. The TABS Data page appears.
- 2. Click on the appropriate Health PORT button. The TABS Health Points page appears.

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	Meta	igo	Select Ite	mÞ RTU17	TABS H	Lealth F	oints - I	PORT 5	REF	RESH	In	S	ite
					Thu Aug	29 12:59	:15 2002						
	Point AID	(Number)		De	scription			CL	LI	Va	lue	View	
	HEALTH-5 (257)		TABS PORT :	5 FAIL				CalgaryTe	st	(0) CLEAR		
	HEALTH-5-0 (258)		TABS PORT :	ADDR 0				CalgaryTe	st	(0) CLEAR		

Figure 27 TABS Health Points

For each point, the point AID, point number, description, CLLI code, value of the point are displayed along with a view button (magnifying glass), which when selected displays the point configuration. Refer to Appendix A - Point AID Descriptions for a complete description of the point AID syntax

If the points are in alarm, they will be displayed in the appropriate alarm color (refer to Table 1 Alarm Colors on page 2). The points are listed in numerical order (lowest point number at the top).

TABS Port Protocol Analyzer

The protocol analyzer is a useful tool to check serial communication and to assist with diagnosing problems should they occur. For TABS communication the WS3500 polls the end device and waits for a reply. This first image shows an unsuccessful poll sequence due to the end device being disconnected. The analyzer shows a TX from the WS3500 but no answer from the end device which results in a communication timeout:

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Select Item -> V	InSite
Westronic_Lab-12 TABS Log PORT:5	^
Tue Jan 5 14:41:55 2016	
Reset Port	
PellCount:00205 Good:00000 Timeout:00205 Checksum:00000 Other:0 :RX(00):TIMBOUT: :	
:RX(0):TIMEOUT1 SEQ:00197:TX(07):DB0002A1017F01 :RX(00):TIMEOUT1	~
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Figure 28 TABS Protocol Analyzer – Failed Poll

In this second example a TABS-IP session is shown where communications are working correctly and the end device is responding normally. Good polls using a serial TABS connection appear in a similar manner.

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🙀 🧐 Cor 💪 Google 🚨 http 🌖 Sign 🧃 AOR 🗿 Sign 👌 A Ca 🍠 Inte 🗕 Veri 🖬 Þ Fi 遵 Dirt 💻 Bogen 🗃 http 🧮 Holl 🜌 Dyno 🗿 1987 🧃 Musc	💣 MSD' 🚝 4-Ch 🗿 Magn 🗿 Turb 🌆 GM E 🐥 Secr 👰 Home 💣 FiTe
Select Item -> V	REFRESH InSite
Westronic_Lab-12 TABS Log IP:1	^
Tue Jan 5 14:42:58 2016	
Reset Port	
Pollcount:01513 Good:01513 Timeout:00000 Checksum:00000 Other:0 SEQ:01531-TV:07):BB002040017601 :ER:07):E70002A0009501 ->OK SEQ:01512:TV:07):BB0020A007501 :ER:07):E70002A0009501 ->OK SEQ:01510:TV:07):BB0020A007501 :ER:07):E70002A0009501 ->OK SEQ:0150:TV:07):BB0020A007501 :ER:07):E70002A0009501 ->OK SEQ:0150:TV:07):BB0020A007501 :ER:07):E70002A0009501 ->OK SEQ:0150:TV:07):BB0020A007501 :ER:07):E70002A0009501 ->OK SEQ:0150:TV:07):BB0020A007501 :ER:07):E70002A0009501 ->OK	
:RX(07):E70002R0008901 ->OK SEQ:01505:TX(07):DB0002R0017E01	~
TRA (07) 157000280009301 - 208	8.196
	412% ·

Figure 29 TABS Protocol Analyzer - Good Polling

Reset TABS Port

The Reset Port button in the Protocol Analyzer screen enables an InSite[™] user to reset any individual port without needing to restart the WS3500 or physically intervene with the unit. This feature (when licensed and/or enabled through Manager) is available in firmware version 4.02.05 or newer. Together with the protocol analyzer, port reset can be a helpful diagnostic tool when attempting to resolve serial communication issues. Reset will occur within 1 minute of issuing the command. Reset port requires the user to be of Level 3 or higher.

<u>Note</u>: If the "No Reset Ports" checkbox in Metago Manager has been enabled (checked) attempting to reset the port will bring up a new screen with a "Reset Restricted" banner.

A http://10.0.100.12/cgi-hin/aperate_reset_cgi?1?1229082TA			
File Edit View Eavorites Tools Help	6 10.01001		
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	Reset TABS S	ERIAL Request	
	<u>[</u>	•	
			_
	User	: MTC	
	Password		
		Send Request	
	L		3

Figure 30 Reset TABS Serial Port

After the entry of a correct username and password the reset command will be issued. A successful reset request appears as follows:

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<u>File Edit View Favorites Iools Help</u>						
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TABS SERIAL Reset Request						
	Reset Request ISSUED					
c	Close Browser Window or use Back to Resubmit					



INACS Points

To access the INACS Data page, select INACS Points from the item list in the pull down menu. The INACS Data page appears.

	RTU Select Item 13	• <u>•</u>		REFRESH	InS	ite
		IN Thu Sep	ACS Data 12 07:34:09 2002			Ħ
	PORT 2 - Select INACS Stat PORT 2 - Select INACS Stati PORT 2 - INACS Address 1 PORT 2 - INACS Address 2 PORT 2 - INACS Address 3 PORT 2 - INACS Address 3	on I> Healt		Protocol Analyzer PORT 02		ŧ
	PORT 2 - INACS Address 5 PORT 2 - INACS Address 6 PORT 2 - INACS Address 7 PORT 2 - INACS Address 8 PORT 2 - INACS Address 8 PORT 2 - INACS Address 10					Ħ
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Figure 31 INACS Data page

This is an intermediate page, containing a pull-down selection menu listing each address (1 - 2046) that can be configured on that port, a Health button, and Protocol Analyzer button.

Selecting a port and INACS address item from the pull-down list, takes you to the INACS Port Station Lines page, which gives you an overview of the configured lines and commands configured on a particular port and station. The Health Port button takes you to the Health Points page containing the INACS health points configured for that port, and the protocol analyzer button takes you to the protocol analyzer page for that serial port.

INACS Port Station Lines page

To access the INACS Port Station Lines page,

- 1. Select INACS Points from the selection item list in the header row. The INACS Data page appears.
- 2. Select the port and INACS address from the pull-down list. The INACS Port Station Lines page appears.



Figure 32 INACS Port Station Lines

This page contains LINE buttons corresponding to the configured lines for that particular station address. The squares above each button represent input points 1 - 32; each row contains 8 input points. The top row of squares correspond to INACS input points 1 - 8 (point 1 in the upper left-hand corner of each box), the 2nd row are INACS input points 9 - 16, etc. with INACS input point 32 in the bottom right-hand corner of the box.

The background color of each square reflects the priority of the alarm. If the square is white, the point is not in alarm. Refer to *Table 1* and page 2 for the list of alarm colors.

The COMMANDS buttons represent the configured commands (controls) on each station.

Viewing INACS Input Points

The INACS Points page displays the 32 INACS input points configured on a specific line. To access the INACS Points page,

- 1. Select INACS Points from the selection item list in the header row. The INACS Data page appears.
- 2. Select the port and INACS address from the pull-down list. The INACS Port Station Lines page appears.
- 3. Click on the appropriate LINE button. The INACS Points page appears.

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RTU	7 INACS Points - 1	PORT 2 Statio	n 2045 Lir	1e 14 - Points (220	5 to 2237)	ATT	<u> </u>
Point AID (Number)	D	ved Sep 11 14:27 escription	:41 2002	CLLI	Value	View	E
INACS-2-2045-14-1 (2206)	INACS INPUT 1			CalgaryTest	(0) CLEAR	2	
INACS-2-2045-14-2 (2207)	INACS INPUT 2			CalgaryTest	(0) CLEAR		E-
INACS-2-2045-14-3 (2208)	INACS INPUT 3			CalgaryTest	(0) CLEAR		
INACS-2-2045-14-4 (2209)	INACS INPUT 4			CalgaryTest	(0) CLEAR		
INACS-2-2045-14-5 (2210)	INACS INPUT 5			CalgaryTest	(0) CLEAR		Ē
INACS-2-2045-14-6 (2211)	INACS INPUT 6			CalgaryTest	(0) CLEAR		
INACS-2-2045-14-7 (2212)	INACS-2-2045-14-7 (2212) INACS INPUT 7						A
INACS-2-2045-14-8 (2213)	INACS INPUT 8			CalgaryTest	(0) CLEAR		E
INACS-2-2045-14-9 (2214)	INACS INPUT 9			CalgaryTest	(0) CLEAR		•
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Figure 33 INACS Points

This page displays the 32 INACS input points configured on the RTU for a particular INACS port, station and line. For each point, the point AID, point number, description, CLLI code, value of the point are displayed along with a view button (magnifying glass), which when selected displays the point configuration. Refer to Appendix A - Point AID Descriptions for a complete description of the point AID syntax

If the points are in alarm, they will be displayed in the appropriate alarm color (refer to Table 1 Alarm Colors on page 2). The points are listed in numerical order (lowest point number at the top).

Viewing INACS Control Points

The INACS Commands page displays the control points configured on a specific INACS station. To access the INACS Commands page,

- 1. Select INACS Points from the selection item list in the header row. The INACS Data page appears.
- 2. Select the port and INACS address from the pull-down list. The INACS Port Station Lines page appears.
- 3. Click on the appropriate COMMAND button. The INACS Command Points page appears.

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ET T	RTU17 INACS Commands - PORT 2 St Wed Sep 11 14:31:25	ation 2045 - Poin 2002	nts (2238 to 2242)	FEED	Æ
Point AID (Number)	Description	CLLI	Value	View Control	E
INACSC-2-2045-1 (2238)	INACS OUTPUT 1	CalgaryTest	(0) OPEN	Issue	
INACSC-2-2045-2 (2239)	INACS OUTPUT 2	CalgaryTest	(0) OPEN	Issue	E
INACSC-2-2045-3 (2240)	INACS OUTPUT 3	CalgaryTest	(0) OPEN	Issue	
INACSC-2-2045-4 (2241)	INACS OUTPUT 4	CalgaryTest	(0) OPEN	Issue	TE
INACSC-2-2045-5 (2242)	INACS OUTPUT 5	CalgaryTest	(0) OPEN	Issue	臣
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Figure 34 INACS Commands

This page displays the INACS command (control) points configured on the RTU for a particular INACS port and station. For each point, the point AID, point number, description, CLLI code, value of the point are displayed along with a view button (magnifying glass), which when selected displays the point configuration, and an Issue button, for issuing controls. Refer to Appendix A - Point AID Descriptions for a complete description of the point AID syntax

The value of the control is displayed as either (0) OPEN or (1) CLOSED. To issue a control, click on the Issue button.

Issuing INACS Controls

Note: If the "No Controls" option is enabled in Manger the following screens will not appear and will be replaced by a "Controls Restricted" banner.

To issue a control, do the following:

1. Click on the Issue button for the point in question. The Control Operate Request window appears.

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								0	Flash						
										Sen	d Request				
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- 2. Enter your user name and password. Only users that have permission level of 3 or higher can issue controls.
- 3. Select the action you wish to perform, either Operate or Release.
- 4. Select the control type. The type of control determines the external control operation.

Latch – the control remains closed until it is released.

Momentary - the control closes for a set time and then is released.

Flash – is not supported for INACS.

5. Click on Send Request to send the control request (either operate or release). A confirmation window appears indicating whether the control was issued successfully or not. If the control was unsuccessful, the reason why is displayed below the point description (the configured description in this case is Door Open).

Control Operate Request Point #1

Door Open
Control Request ISSUED
Close Browser Window or use Back to Resubmit

6. Close the Browser Window to return to the previous display or click Back in the Standard Buttons toolbar to resubmit the control

All control requests are logged in the Operations History Log. To view the log file, select Operations History Displays from the selection list in the header row, and then click on the Operations LOG button.

Viewing INACS Health Points

To access the INACS Health Points page,

- 1. Select INACS Points from the selection item list in the header row. The INACS Data page appears.
- 2. Click on the appropriate INACS PORT button. The INACS Health Points page appears.

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Gack Forward Stop Re	resh Home Search Favorites Media History	Mail Print Edit	Discuss Dell Home Messenger	
Iress 🧃 http://172.16.6.16/				∂Go Lin
	Select Item I> 💽	RE	FRESH INS	ite
	RTU16 INACS Health Po Wed Dec 11 09:39:3	ints - PORT 4 5 2002		
Point AID (Num	bar) Description	CLLI	Value View	
HEALTH-4 (59)	INACS PORT 4 FAIL		(1) ALARM	
			(1) ALARM	
HEALTH-4-1 (60)	INACS PORT 4 STN 1	INACS CLLI	(I) ALARM	
HEALTH-41 (60) INACSFB-41 (61)	INACS PORT 4 STN 1 INACS PORT 4 STN 1 TBOS PORT FAIL	INACS CLLI INACS CLLI	(1) ALARM	
HEALTH-41 (89) INACSFB-41 (81)	INACS PORT 4 STN 1 INACS PORT 4 STN 1 TBOS PORT FAIL	NACS CLLI NACS CLLI	(I) ALARM	
HEALTH-41 (80) INACSFB-41 (81)	INACS PORT 4 STN 1 INACS PORT 4 STN 1 TBOS PORT FAIL	NACS CLLI INACS CLLI	(I) ALARM	

Figure 36 INACS Health Points

For each point, the point AID, point number, description, CLLI code, value of the point are displayed along with a view button (magnifying glass), which when selected displays the point configuration. Refer to Appendix A - Point AID Descriptions for a complete description of the point AID syntax

If the points are in alarm, they will be displayed in the appropriate alarm color (refer to Table 1 Alarm Colors on page 2). The points are listed in numerical order (lowest point number at the top).

INACS Protocol Analyzer and Reset Port

These functions work in the same manner as Protocol Analyzer and Reset Port for TBOS and TABS ports. Please refer to these subject headings in the TBOS or TABS chapters for more information.



DS5000 Points

To access the DS5000 Data page, select DS5000 Points from the item list in the pulldown menu. The DS5000 Data page appears.

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Figure 37 DS5000 Data page

This is an intermediate page, containing a pull-down selection menu listing each station address (1 - 254) that can be configured on that port, a Health button, and Protocol Analyzer button.

Selecting a port and DS5000 Station address item from the pull-down list, takes you to the DS5000 Port Station Lines page, which gives you an overview of the lines and commands configured on a particular port and station. The Health Port button takes you to the Health Points page containing the DS5000 health points configured for that port, and the protocol analyzer button takes you to the protocol analyzer page for that serial port.

DS5000 Port Station Lines page

To access the DS5000 Port Station Lines page,

1. Select DS5000 Points from the selection item list in the header row. The DS5000 Data page appears.

2. Select the port and DS5000 station address from the pull-down list. The DS5000 Port Station Lines page appears.



Figure 38 DS5000 Port Station Lines

This page contains LINE buttons corresponding to the configured lines for that particular station address. The squares above each button represent input points 1 - 32; each row contains 8 input points. The top row of squares correspond to DS5000 input points 1 - 8 (point 1 in the upper left-hand corner of each box), the 2nd row are DS5000 input points 9 - 16, etc. with DS5000 input point 32 in the bottom right-hand corner of the box.

The background color of each square reflects the priority of the alarm. If the square is white, the point is not in alarm. Refer to *Table 1* and page 2 for the list of alarm colors.

The COMMANDS buttons represent the configured commands (controls) on each station.

The Goto Line -> button allows you quick access to a specific line. Simply, enter the number of the line you wish to view in the text area and then click the Goto Line -> button.

Viewing DS5000 Input Points

The DS5000 Points page displays the 32 DS5000 input points configured on a specific line. To access the DS5000 Points page,

- 1. Select DS5000 Points from the selection item list in the header row. The DS5000 Data page appears.
- 2. Select the port and DS5000 address from the pull-down list. The DS5000 Port Station Lines page appears.
- 3. Click on the appropriate LINE button. The DS5000 Points page appears.

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H	RTU16 DS5000 Points - PORT 6 Station 1 Line 1 - Points (1034 to 1065)								
	Point AID (Number)	Description		CLLI	Value	View			
	DS5PA-6-1-1-1 (1034)	RTU restart (power fail) flag		CalgaryTest	(0) CLEAR	S.			
F	DS5PA-6-1-1-2 (1035)	RTU mode ON or OFF line		CalgaryTest	(0) CLEAR				
	DS5PA-6-1-1-3 (1036)	DS5PA INPUT 3		CalgaryTest	(0) CLEAR				
	DS5PA-6-1-1-4 (1037)	DS5PA INPUT 4		CalgaryTest	(0) CLEAR	E.			
	DS5PA-6-1-1-5 (1038)	DS5PA INPUT 5		CalgaryTest	(0) CLEAR				
	DS5PA-6-1-1-6 (1039)	DS5PA INPUT 6		CalgaryTest	(0) CLEAR	9			
H	DS5PA-6-1-1-7 (1040)	DS5PA INPUT 7		CalgaryTest	(0) CLEAR				
	DS5PA-6-1-1-8 (1041)	DS5PA INPUT 8		CalgaryTest	(0) CLEAR				
	DS5PA-6-1-1-9 (1042)	More COS to report		CalgaryTest	(0) CLEAR	3			
I	DS5PA-6-1-1-10 (1043)	TBOS port 1 status		CalgaryTest	(0) CLEAR				
	DS5PA-6-1-1-11	TBOS port 2 status		CalgarvTest	(0) CLEAR	ə l -			
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Figure 39 DS5000 Points

This page displays the 32 DS5000 input points configured on the RTU for a particular DS5000 port, station and line. For each point, the point AID, point number, description, CLLI code, value of the point are displayed along with a view button (magnifying glass), which when selected displays the point configuration. Refer to Appendix A - Point AID Descriptions for a complete description of the point AID syntax

If the points are in alarm, they will be displayed in the appropriate alarm color (refer to Table 1 Alarm Colors on page 2). The points are listed in numerical order (lowest point number at the top).

Viewing DS5000 Control Points

The DS5000 Commands page displays the control points configured on a specific DS5000 station. To access the DS5000 Commands page,

- 1. Select DS5000 Points from the selection item list in the header row. The DS5000 Data page appears.
- 2. Select the port and DS5000 address from the pull-down list. The DS5000 Port Station Lines page appears.
- 3. Click on the appropriate COMMAND button. The DS5000 Command Points page appears.

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EEEE	E A	RTU16 DS5000	Commands - Mon Dec	PORT 6 St 9 14:47:25 2	tation 1 - Point 002	s (1130 to 1146)	ŦŦŦ	Ħ		
	Point AID (Numi	er)	Description		CLLI	Value	View	Control	101111	
	DS5PAC-6-1-1 (1130)	DS5PA OUTPUT 1			AID is here	(0) OPEN	R	Issue		
E	DS5PAC-6-1-2 (1131)	DS5PA OUTPUT 2			AID is here	(0) OPEN		Issue		
CLINA	DS5PAC-6-1-3 (1132)	DS5PA OUTPUT 3			AID is here	(0) OPEN	R	Issue		
100	DS5PAC-6-1-4 (1133)	DS5PA OUTPUT 4			AID is here	(0) OPEN	R	Issue	TRAFF	
	DS5PAC-6-1-5 (1134)	DS5PA OUTPUT 5			AID is here	(0) OPEN	R	Issue		
	DS5PAC-6-1-6 (1135)	DS5PA OUTPUT 6			AID is here	(0) OPEN	R	Issue		
EEF	DS5PAC-6-1-7 (1136)	DS5PA OUTPUT 7			AID is here	(0) OPEN	R	Issue	CELEBRA CONTRACT	
S-D-T-T	DS5PAC-6-1-8 (1137)	DS5PA OUTPUT 8			AID is here	(0) OPEN	R	Issue	Hann	
	DS5PAC-6-1-9 (1138)	DS5PA OUTPUT 9			AID is here	(0) OPEN	R	Issue		
	DS5PAC-6-1-10 (1139)	DS5PA OUTPUT 10			AID is here	(0) OPEN	9	Issue	F	
	DS5PAC-6-1-11	DS5PA OUTPUT 11			AID is here	(O) OPEN	\mathbb{C}	Issue	•	
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🙆 Done								🔁 Int	ernet	

Figure 40 DS5000 Commands

This page displays the DS5000 command (control) points configured on the RTU for a particular DS5000 port and station. For each point, the point AID, point number, description, CLLI code, value of the point are displayed along with a view button (magnifying glass), which when selected displays the point configuration, and an Issue button, for issuing controls. Refer to Appendix A - Point AID Descriptions for a complete description of the point AID syntax

The value of the control is displayed as either (0) OPEN or (1) CLOSED. To issue a control, click on the Issue button.

Issuing DS5000 Controls

Note: If the "No Controls" option is enabled in Manger the following screens will not appear and will be replaced by a "Controls Restricted" banner.

To issue a control, do the following:

1. Click on the Issue button for the point in question. The Control Operate Request window appears.

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Figure 41 DS5000 Control Request

- 2. Enter your user name and password. Only users that have permission level of 3 or higher can issue controls.
- 3. Select the action you wish to perform, either Operate or Release.
- 4. Select the control type. The type of control determines the external control operation.

Latch - the control remains closed until it is released.

Momentary – the control closes for a set time and then is released. The momentary control time is configured on the DS5000, so any time input by the user for the DS5PA controls is ignored.

Flash - is not supported by the DS5000.

5. Click on Send Request to send the control request (either operate or release). A confirmation window appears indicating whether the control was issued successfully or not. If the control was unsuccessful, the reason why is displayed below the point description (the description in this case is Door Open).

Control Operate Request Point #1

Door Open
Control Request ISSUED
Close Browser Window or use Back to Resubmit

6. Close the Browser Window to return to the previous display or click Back in the Standard Buttons toolbar to resubmit the control

All control requests are logged in the Operations History Log. To view the log file, select Operations History Displays from the selection list in the header row, and then click on the Operations LOG button.

Viewing DS5000 Health Points

To access the DS5000 Health Points page,

- 1. Select DS5000 Points from the selection item list in the header row. The DS5000 Data page appears.
- 2. Click on the appropriate DS5000 Health PORT button. The DS5000 Health Points page appears.

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	Point AID (Number)			Descript	ion			CLLI		Value	•	View		
	HEALTH-6 (1147)		DS5PA PC	ORT 6 FAIL							(0) (LEAR			
	HEALTH-6-1 (1148	,	DS5PA PC	ORT 6 STN	1			C	algaryTest		(0) (LEAR	2		

Figure 42 DS5000 Health Points

For each point, the point AID, point number, description, CLLI code, value of the point are displayed along with a view button (magnifying glass), which when selected displays the point configuration. Refer to Appendix A - Point AID Descriptions for a complete description of the point AID syntax

If the points are in alarm, they will be displayed in the appropriate alarm color (refer to Table 1 Alarm Colors on page 2). The points are listed in numerical order (lowest point number at the top).

DS5000 Protocol Analyzer and Reset Port

These functions work in the same manner as Protocol Analyzer and Reset Port for TBOS and TABS ports. Please refer to these subject headings in the TBOS or TABS chapters for more information.



Derived Alarms

To access the Derived Alarms page, select Derived Points from the pull-down menu. The Derived Points page appears.



Figure 43 Derived Points

This is an intermediate page, containing a list showing each Derived alarm listed by numerical order (lowest number at the top). If the points are in alarm, they will be displayed in the appropriate alarm color (refer to Table 1 Alarm Colors on page 2). If the point is not in alarm, the background color is white.

Viewing a Derived Alarm Point Definition

Click on the View button (magnifying glass) in the previous screen to call up the database pop-up page.

🖉 http://10.0.100.12/cgi-bin/point_info.cgi?1000 - Internet Explorer								
<pre>//10.0.100.12/cgi-bin/point_info.cgi?1000</pre>								
Point 1001								
TYPE	(0x01)=DIGITAL							
FLAGS M:0 ,R:0x01 ,U:0x00 ,AP:0x0000000								
DESCRIPTION DERIVED ALARM 1								
POINT AID DERIVED-1								
CLLI testing								
WORK GROUP EN								
UNITS								
OCR TIME	Mon Jan 4 02:11:29 2016							
ALARM STATE,EFFECT	NA ,SA							
ALM STATE	1							
CUR STATE	1							
SEVERITY	(0x02)=NA							
CONDTYPE	GP							
EFFECT	EFFECT (0x04)=SA							
(HEX),DEC,SCALED	(0x1), 1, 0.000000							
AIDTYPE	EQPT							

Note that the point definition page of a Derived alarm offers significant detail about the derived alarm but does not show the constituent alarm points. This information can only be determined by going to the Alarm Summary page.

Here the information regarding the constituent alarms is presented as right justified text in the "Point AID" column of the Derived Alarm Summary while the derived alarm itself is presented with left justified text in the same column. All other conventional alarms are presented in the General Alarm Summary area of the page as illustrated below.

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w Metago Select Item→ Select Item→ REFRESH								
		Wed Jan 13 16:00:3	33 20	16				~
		Derived Alarm Su	mm	ary				- 1
Point AID (Nu	mber) Description	on SV	EFF	CLLI	WG	Time	View	
DERIVED-1 (1001)	DERIVED ALARM 1	NA	SA	testing	EN	Mon Jan 4 02:11:29 2016		
DISCRETE	-1-1 (856) DISCRETE INPUT 1	MJ	NSA			Wed Jan 13 15:41:49 2016	Q	
DISCRETE	-1-2 (857) DISCRETE INPUT 2	MN	NSA			Wed Jan 13 15:41:49 2016	R	
		General Alarm Su	mm	ary				
Point AID (Nu	mber) Descriptio	on SV	EFF	CLLI	WG	Time	View	
HEALTH-3 (577)	DS5PA PORT 3 FAIL	CR	NSA			Wed Jan 13 15:42:08 2016	Ð,	
HEALTH-3-1 (578)	DS5PA PORT 3 STN 1	MJ	NSA			Wed Jan 13 15:42:08 2016	Q	
DISCRETE-1-8 (863)	DISCRETE INPUT 8	MN	NSA			Wed Jan 13 15:41:49 2016	R	
DISCRETE-1-4 (859)	DISCRETE INPUT 4	RN	NSA			Wed Jan 13 15:41:49 2016	Q	
DISCRETE-1-7 (862)	DISCRETE INPUT 7	RN	NSA			Wed Jan 13 15:41:49 2016	Q	~
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Figure 44 Derived Alarm on Alarm Summary Page

Chapter

E2A Alarm Points

To access the E2A Data page, select E2A Points from the item list in the pull down menu. The E2AA Data page will appear.

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Figure 45 E2A Data Page

This is an intermediate page showing all configured E2A ports. Each port has a pull-down selection menu listing all E2A Station Addresses (1 - 256) that are configured for that port, plus a Health button and Protocol Analyzer button for each configured port.

By choosing the desired E2A port and then selecting an address from the pull-down list within it, you will navigate to the E2A Displays page. This new page gives you an overview of the Displays, Alarms and Commands configured on that particular port/address combination. See Figure 46.

<u>Note:</u> Configurable E2A Displays range from 5-64. For more information about E2A addresses, displays and controls, please see the E2A supplement (pn# 994-T080) which is supplied with all WS3500 equipped with an E2A collection module.

The Health Port XY button navigates to the Health Points page containing the E2A health points configured for that port, and the protocol analyzer button navigates to the protocol analyzer page for that E2A serial port. E2A Health points and Protocol analyzer work in a similar manner to those for TABS. Please refer to the relevant sections in the TABS chapter for more information.



Figure 46 Example of E2A Displays Page

The E2A Displays page contains DISPLAY buttons corresponding to the configured displays for that particular E2A port/address combination. The display numbering is one based (possible values DISPLAY 5 to DISPLAY 64). The squares above each button represent input points 1 - 64; each row contains 8 input points. The top row of squares correspond to E2A input points 1 - 8 (point 1 in the upper left-hand corner of each box), the 2nd row are E2A input points 9 - 16, etc. with E2A input point 64 in the bottom right-hand corner of the box.

The background color of each square reflects the priority of the alarm. If the square is white, the point is not in alarm. Refer to *Table 1* and page 2 for the list of alarm colors.

The COMMANDS buttons represent the configured commands (controls) on each display. In the case of Figure 46; both display 5 and display 64 have controls configured.

<u>Note</u>: Issuing controls in E2A works in a similar manner to controls in TABS. Please refer to the relevant section of the TABS chapter for more information.

The Goto Display -> button allows you quick access to a specific display. Simply, enter the number of the display you wish to view in the text area and then click the Goto Display -> button.

E2A Protocol Analyzer and Reset Port

These functions work in a similar manner to the Protocol Analyzer and Reset Port for TABS ports. Please refer to these subject headings in the TABS chapter for more information.



System Information

To access the System Information page, select System Information from the pull-down menu.

Note: If the "No System Information" option is enabled in Metago Manger, the following screen will not appear and will be replaced by a "System Information Restricted" banner.

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	Select Item -> V	InSite					
	Westronic_Lab-12 System Information	^					
	Tue Jan 12 16:29:04 2016						
	IP: 10.0.100.12						
	mask : 255.255.0.0						
	route : 10.0.100.1						
	NIAC : 001DED 49D01/						
	Firmware Version : 4.02.06.						
	BDialCount : 000	~					
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Figure 47 System Information

This page shows basic information about the unit such as configured TID, IP, netmask, router, MAC address, firmware version and backup dial count. BDialCount will only increment and be applicable to units with dial up modem installed and configured.

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Point AID Descriptions

This appendix contains a description of the possible AIDs that are used. In all cases, the first field in the AID is the type of point. The point types that are currently supported are DISCRETE (points configured on the I/O Modules in the WS3500 RTU), TBOS, TABS and HEALTH. Health points are automatically created for each I/O module and serial device.

I/O Module Point AIDs

Each I/O module may contain up to 64 inputs, 8 outputs, and one health point. The format of the AID field for

- Discrete inputs is DISCRETE-<I/O module>-<point number>. Where the I/O module range is 1 8 and the point number range is 1 64.
- Discrete outputs is DISCRETEC-<I/O module>-<point number>. Where the I/O module range is 1 8 and the point number range is 1 8.
- Discrete Health is HEALTH-IO-<I/O module>. Where the I/O module is the number of the I/O module, range 1 8.

I/O Module	Inputs	Outputs	Health		
1	DISCRETE-1-y	DISCRETEC-1-y	HEALTH-IO-1		
2	DISCRETE-2-y	DISCRETEC-2-y	HEALTH-IO-2		
3	DISCRETE-3-y	DISCRETEC-3-y	HEALTH-IO-3		
4	DISCRETE-4-y	DISCRETEC-4-y	HEALTH-IO-4		
5	DISCRETE-5-y	DISCRETEC-5-y	HEALTH-IO-5		
6	DISCRETE-6-y	DISCRETEC-6-y	HEALTH-IO-6		
7	DISCRETE-7-y	DISCRETEC-7-y	HEALTH-IO-7		
8	DISCRETE-8-y	DISCRETEC-8-y	HEALTH-IO-8		

Note: y is the point number. The valid range of y varies depending on the point type. Table 2 I/O Module Point AIDs -- Inputs, Outputs, and Health Points

TBOS Point AIDs

A configured TBOS port may contain up to 8 displays. Each configured display may have 64 inputs, 64 controls (optional), and 9 Health points per serial port. The format of the AID field for

- TBOS inputs is TBOS-<port>-<display>-<point number>. Where port is the serial port number, *display* is the display number (1 to 8), and *point number* is the TBOS input point number (1-64).
- TBOS outputs TBOSC-<port>-<display>-<point number>. Where port is the serial port number, *display* is the display number (1 to 8), and *point number* is the TBOS control point number (1--64).

 TBOS Health Points — Each configured TBOS port, has one health point assigned to the port as a whole, and a health point for each display. *Table 3* lists the default AID, point description, severity, and normal state associated with each TBOS Health Point, the *x* in the AID and point description pertains to the serial port number. For example, HEALTH-6-0 would represent the TBOS Health point on serial port 6 and its default point description would be TBOS PORT 6 FAIL.

AID	Point Description	Severity	Normal State
HEALTH-x-0	TBOS PORT x FAIL	CR	Open
HEALTH-x-1	TBOS PORT x DISPLAY 1	MJ	Open
HEALTH-x-2	TBOS PORT x DISPLAY 2	MJ	Open
HEALTH-x-3	TBOS PORT x DISPLAY 3	MJ	Open
HEALTH-x-4	TBOS PORT x DISPLAY 4	MJ	Open
HEALTH-x-5	TBOS PORT x DISPLAY 5	MJ	Open
HEALTH-x-6	TBOS PORT x DISPLAY 6	MJ	Open
HEALTH-x-7	TBOS PORT x DISPLAY 7	MJ	Open
HEALTH-x-8	TBOS PORT x DISPLAY 8	MJ	Open

Table 3 TBOS Health Point AID Configuration

TABS Point AIDs

A configured TABS port may contain up to 31 addresses (0 - 31) and each address may contain up to 256 displays (0 - 255). <u>Note</u>: Displays up to 65535 are supported if the downstream device uses long addressing. Each configured display may have 64 inputs, 64 controls (optional), and 1 Health points per serial port and a health point for every address configured on that port. The format of the AID field for

- TABS inputs is TABS-<port>-<address>-<display>-<point number>. Where port is the serial port number, address is the address number (0 31), display is the display number (1 to 63), and point number is the TABS input point number (1 64).
- TABS outputs TABSC-<port>-<address>-<display>-<point number>. Where port is the serial port number, address is the address number (0 31), display is the display number (1 to 63), and point number is the TABS output point number (1 64).
- TABS Health Points Each configured TABS port, has one health point assigned to the port as a whole, and a health point for each configured TABS address. *Table 4* lists the default AID, point description, severity, and normal state associated with a configured TABS serial port and an example of TABS health points. The *x* in the AID and point description pertains to the serial port number; the y in the point description pertains to the address on the TABS device (0 31). For example, HEALTH-7-1 would represent the TABS Health point on serial port 7 and its default point description would be TABS PORT 7 ADDR 1 indicating that the TABS device is configured on serial port 7 and its address is 1.

AID	Point Description	Severity	Normal State
HEALTH-x	TABS PORT x FAIL	CR	Open
HEALTH-x-y	TABS PORT x ADDR y	MJ	Open
HEALTH-x-y	TABS PORT x ADDR y	MJ	Open

Table 4 TABS Health Point AID and Configuration

INACS Point AIDs

The INACS protocol acquisition feature supports INACS station numbers from 1 - 2046. Each station supports line numbers 1 - 14. Each configured line may have 32 inputs. A configured station may have up to 256 outputs (optional).

For every configured INACS port and station, Metago Manager automatically configures 1 Health point per serial port and a health point for every station on that port. In addition to these health points, the INACS acquisition protocol feature also supports the INACS TBOS port fail F-bit.

The format of the AID field for

- INACS inputs is INACS-<port>-<station>-<status line>-<point number>. Where port is the serial port number, station is the station address (1 2046), status line is the status line number (1 to 14), and point number is the INACS input point number (1 32).
- INACS outputs is INACS-<port>-<station>-<point number>. Where port
 is the serial port number, station is the station address (1 2046), and point number is
 the INACS command point number (1 256).
- INACS Health Points Each configured INACS port, has one health point assigned to the port as a whole, and a health point for each configured INACS station. *Table 5* lists the default AID, point description, severity, and normal state associated with a configured INACS serial port and an example of INACS health points. The *x* in the AID and point description pertains to the serial port number; the y in the point description pertains to the address on the INACS station (1 – 2046). For example, HEALTH-7-1 would represent the INACS Health point on serial port 7 and its default point description would be INACS PORT 7 STN 1 indicating that the INACS device is configured on serial port 7 and its station address is 1.
- F-bit Health Point If the INACS RTU is configured to use its TBOS port for data acquisition, then the F-bit indicates if the down stream TBOS polling has failed. There is one TBOS port and associated F-bit per INACS RTU. The InSite[™] Health web page includes the F-bit points in its display. *Table 5* lists the default AID, point description, severity, and normal state associated with the F-bit Health point.

AID	Point Description	Severity	Normal State
HEALTH-x	INACS PORT x FAIL	CR	Open
HEALTH-x-y	INACS PORT x STN y	MJ	Open
HEALTH-x-y	INACS PORT x STN y	MJ	Open
INACSFB-x-y	INACS PORT x STN y TBOS PORT FAIL	MJ	Open

Table 5 INACS Health Point AID and Configuration

DS5000 Point AIDs

The DS5000 protocol acquisition (DS5PA) feature supports DS5000 station numbers from 1 to 254. Each station supports line numbers 1 to 256. Line 1 is used for the DS5000 RTU system status points. Each configured line may have 32 inputs. A configured station may have up to 128 outputs (optional), and 1 Health point per serial port and a health point for every station configured on that port. The format of the AID field for

- DS5000 inputs is DS5PA-<port>-<station>-<status line>-<point number>. Where *port* is the serial port number, *station* is the station address (1 254), *status line* is the status line number (1 to 256), and *point number* is the DS5000 input point number (1 32).
- DS5000 outputs is DS5PA-<port>-<station>-<point number>. Where port is the serial port number, *station* is the station address (1 254), and *point number* is the DS5000 command point number (1 128).
- DS5000 Health Points Each configured DS5000 port, has one health point assigned to the port as a whole, and a health point for each configured DS5000 station. *Table 6* lists the default AID, point description, severity, and normal state associated with a configured DS5000 serial port and an example of DS5000 health points. The *x* in the AID and point description pertains to the serial port number; the y in the point description pertains to the station address (1 254). For example, HEALTH-7-1 would represent the DS5000 Health point on serial port 7 and its default point description would be DS5PA PORT 7 STN 1 indicating that the DS5000 device is configured on serial port 7 and its station address is 1.

AID	Point Description	Severity	Normal State
HEALTH-x	DS5PA PORT x FAIL	CR	Open
HEALTH-x-y	DS5PA PORT x STN y	MJ	Open
HEALTH-x-y	DS5PA PORT x STN y	MJ	Open

Table 6 DS5000 Health Point AID and Configuration

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