
Errata: WGMS User Guide and WGMS Administrators Guide

March 18, 2015

Liquid Robotics, Inc.

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Note

This document contains errata for the currently published revisions of the **WGMS User Guide** and the **WGMS Administrators Guide**.

Errata: WGMS User Guide Rev B

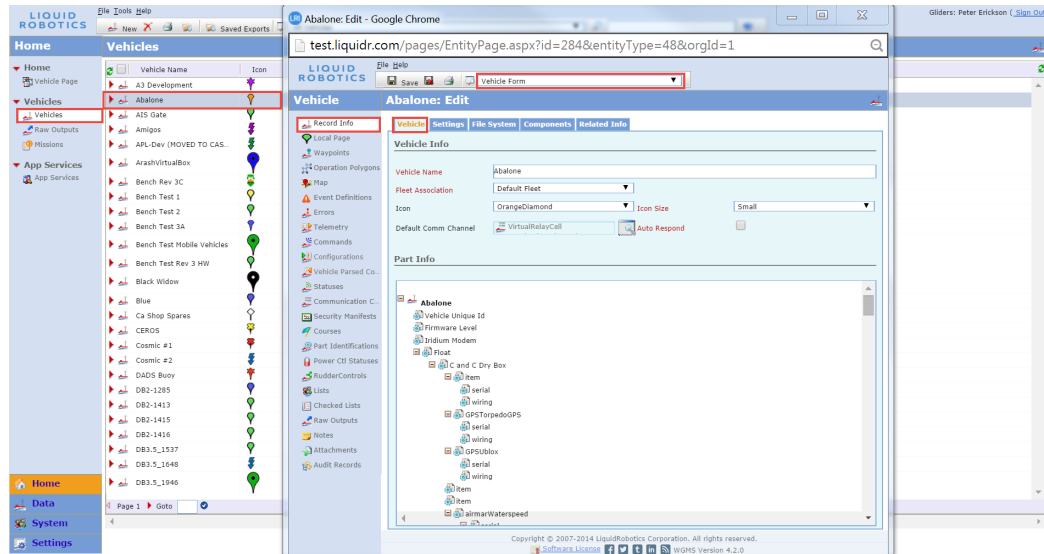
Update to SV3 AMPS Modules Status Information

In the WGMS Help, the following content replaces the **SV3 AMPS Modules Status Information** section at the end of the **Using the WGMS Interface** chapter (in the PDF version of this book, this section begins on page 171).

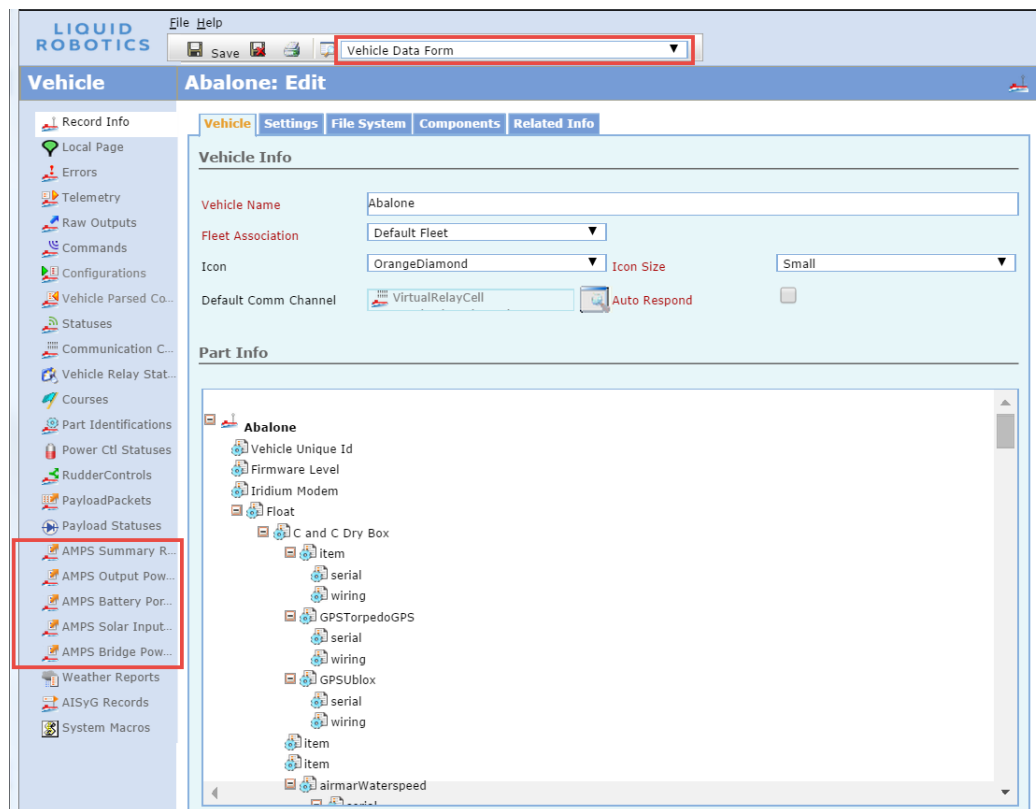
The status of the SV3 AMPS modules for each SV3 vehicle can be accessed when the Vehicle Data Form is selected:

1. From the **Vehicles** page, click on the  icon adjacent to the vehicle name and the **Vehicle Form** will open to the **Record Info** side tab with the **Vehicle** tab selected by default:

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2. Select the **Vehicle Data Form** from the drop-down menu in the tool bar and side tabs to access AMPS status information will appear:



There are 5 AMPS status side tabs - when you select an AMPS status side tab, a window containing a chronological list of system information packet records will appear. AMPS system information is automatically updated on an hourly basis.

- **AMPS Summary Report**

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LIQUID ROBOTICS

File Help

Saved Exports

AMPS Summary Report Detail

Options

Vehicle

Abalone System Information Packet Records

TimeStamp	Vehicle	Report Versi...	Total Batter...	Solar Power ...	Output Port ...	Battery Char.
03/17/15 10:02:31	Abalone	1	910672	0	11754	-2
03/17/15 09:02:31	Abalone	1	910672	0	11796	-2
03/17/15 08:02:31	Abalone	1	910773	0	11834	-2
03/17/15 07:02:31	Abalone	1	911246	0	11717	-2
03/17/15 06:02:31	Abalone	1	911375	0	11728	-1
03/17/15 05:02:31	Abalone	1	911375	0	11698	-2
03/17/15 04:02:31	Abalone	1	911389	0	11797	-2
03/17/15 03:02:31	Abalone	1	911446	0	11692	-2
03/17/15 02:02:31	Abalone	1	911909	0	11762	-1
03/17/15 01:02:31	Abalone	1	912010	0	11738	-2
03/17/15 00:02:31	Abalone	1	912010	0	11805	-2
03/16/15 23:02:31	Abalone	1	912025	0	11765	-2
03/16/15 22:02:31	Abalone	1	912054	0	11732	-2
03/16/15 21:02:31	Abalone	1	912196	0	11809	-2
03/16/15 20:02:31	Abalone	1	912239	0	11661	-2
03/16/15 19:02:31	Abalone	1	912239	0	11650	-2
03/16/15 18:02:31	Abalone	1	912254	0	11620	-2
03/16/15 17:02:31	Abalone	1	912283	0	11748	-2
03/16/15 16:02:31	Abalone	1	912369	0	11735	-1
03/16/15 15:02:31	Abalone	1	912384	0	11748	-2
03/16/15 14:02:31	Abalone	1	912384	0	11757	-2
03/16/15 13:02:31	Abalone	1	912398	0	11711	-1
03/16/15 12:02:31	Abalone	1	912384	0	11778	-2
03/16/15 11:02:31	Abalone	1	912298	0	11653	-1
03/16/15 10:02:31	Abalone	1	912283	0	11724	-1
03/16/15 09:02:31	Abalone	1	912283	0	11674	-2

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• AMPS Output Power Report

LIQUID ROBOTICS

File Help

Saved Exports

AMPS Output Power Status

Options

Vehicle

Abalone System Information Packet Records

TimeStamp	Vehicle	Pwr Domain	Port Type	Msg. Num. o...	Total Num. ...	Format Rev...
03/17/15 10:02:39	Abalone	3	1	6	6	1
03/17/15 10:02:38	Abalone	1	1	12	23	1
03/17/15 10:02:38	Abalone	1	1	11	23	1
03/17/15 09:02:40	Abalone	3	1	6	6	1
03/17/15 09:02:38	Abalone	1	1	12	23	1
03/17/15 09:02:38	Abalone	1	1	11	23	1
03/17/15 08:02:40	Abalone	3	1	6	6	1
03/17/15 08:02:39	Abalone	1	1	12	23	1
03/17/15 08:02:39	Abalone	1	1	11	23	1
03/17/15 07:02:40	Abalone	3	1	6	6	1
03/17/15 07:02:38	Abalone	1	1	12	23	1
03/17/15 07:02:38	Abalone	1	1	11	23	1
03/17/15 06:02:40	Abalone	3	1	6	6	1
03/17/15 06:02:39	Abalone	1	1	12	23	1
03/17/15 06:02:39	Abalone	1	1	11	23	1
03/17/15 05:02:40	Abalone	3	1	6	6	1
03/17/15 05:02:38	Abalone	1	1	12	23	1
03/17/15 05:02:38	Abalone	1	1	11	23	1
03/17/15 04:02:40	Abalone	3	1	6	6	1
03/17/15 04:02:38	Abalone	1	1	12	23	1
03/17/15 04:02:38	Abalone	1	1	11	23	1
03/17/15 03:02:40	Abalone	3	1	6	6	1
03/17/15 03:02:38	Abalone	1	1	12	23	1
03/17/15 03:02:38	Abalone	1	1	11	23	1
03/17/15 02:02:40	Abalone	3	1	6	6	1
03/17/15 02:02:38	Abalone	1	1	12	23	1

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• AMPS Battery Port Report

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The screenshot shows the Liquid Robotics WGMS interface. The left sidebar contains a list of navigation items, with 'AMPS Battery Port Details' highlighted. The main window displays the 'Abalone System Information Packet Records' table. The table has columns for TimeStamp, Vehicle, Pwr Domain, Port Type, Msg. Num. o..., Total Num. ..., and Format Revi... The data shows 18 records for the vehicle 'Abalone' across various timestamps and domains.

TimeStamp	Vehicle	Pwr Domain	Port Type	Msg. Num. o...	Total Num. ...	Format Revi...
03/17/15 10:02:38	Abalone	1	2	10	10	1
03/17/15 09:02:38	Abalone	1	2	10	10	1
03/17/15 08:02:39	Abalone	1	2	10	10	1
03/17/15 07:02:38	Abalone	1	2	10	10	1
03/17/15 06:02:39	Abalone	1	2	10	10	1
03/17/15 05:02:38	Abalone	1	2	10	10	1
03/17/15 04:02:38	Abalone	1	2	10	10	1
03/17/15 03:02:38	Abalone	1	2	10	10	1
03/17/15 02:02:38	Abalone	1	2	10	10	1
03/17/15 01:02:38	Abalone	1	2	10	10	1
03/17/15 00:02:38	Abalone	1	2	10	10	1
03/16/15 23:02:38	Abalone	1	2	10	10	1
03/16/15 22:02:38	Abalone	1	2	10	10	1
03/16/15 21:02:38	Abalone	1	2	10	10	1
03/16/15 20:02:38	Abalone	1	2	10	10	1
03/16/15 19:02:38	Abalone	1	2	10	10	1
03/16/15 18:02:38	Abalone	1	2	10	10	1
03/16/15 17:02:37	Abalone	1	2	10	10	1
03/16/15 16:02:37	Abalone	1	2	10	10	1
03/16/15 15:02:37	Abalone	1	2	10	10	1
03/16/15 14:02:37	Abalone	1	2	10	10	1
03/16/15 13:02:37	Abalone	1	2	10	10	1
03/16/15 12:02:37	Abalone	1	2	10	10	1
03/16/15 11:02:37	Abalone	1	2	10	10	1
03/16/15 10:02:37	Abalone	1	2	10	10	1
03/16/15 09:02:37	Abalone	1	2	10	10	1

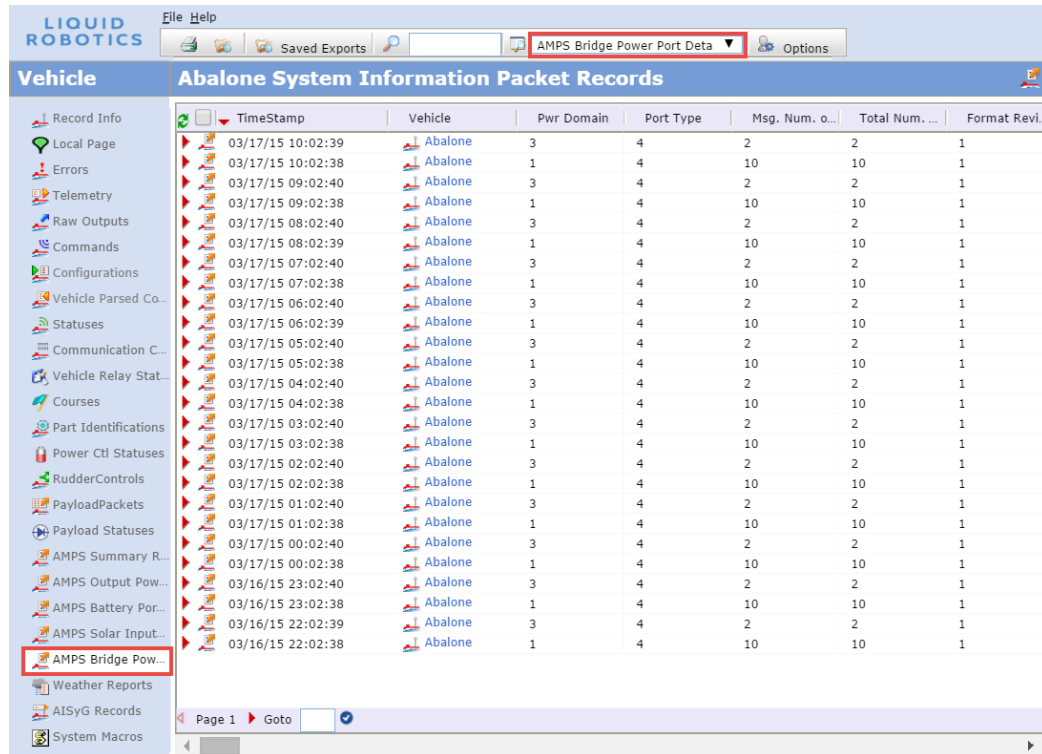
• AMPS Solar Input Port Report

The screenshot shows the Liquid Robotics WGMS interface. The left sidebar contains a list of navigation items, with 'AMPS Solar Input Port Details' highlighted. The main window displays the 'Abalone System Information Packet Records' table. The table has columns for TimeStamp, Vehicle, Pwr Domain, Port Type, Msg. Num. o..., Total Num. ..., and Format Revi... The data shows 18 records for the vehicle 'Abalone' across various timestamps and domains.

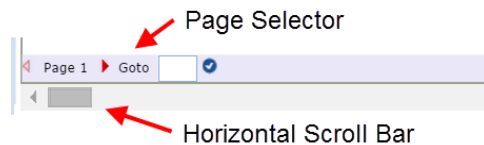
TimeStamp	Vehicle	Pwr Domain	Port Type	Msg. Num. o...	Total Num. ...	Format Revi...
03/17/15 10:02:38	Abalone	1	3	4	4	1
03/17/15 09:02:38	Abalone	1	3	4	4	1
03/17/15 08:02:39	Abalone	1	3	4	4	1
03/17/15 07:02:38	Abalone	1	3	4	4	1
03/17/15 06:02:39	Abalone	1	3	4	4	1
03/17/15 05:02:38	Abalone	1	3	4	4	1
03/17/15 04:02:38	Abalone	1	3	4	4	1
03/17/15 03:02:38	Abalone	1	3	4	4	1
03/17/15 02:02:38	Abalone	1	3	4	4	1
03/17/15 01:02:38	Abalone	1	3	4	4	1
03/17/15 00:02:38	Abalone	1	3	4	4	1
03/16/15 23:02:38	Abalone	1	3	4	4	1
03/16/15 22:02:38	Abalone	1	3	4	4	1
03/16/15 21:02:38	Abalone	1	3	4	4	1
03/16/15 20:02:38	Abalone	1	3	4	4	1
03/16/15 19:02:38	Abalone	1	3	4	4	1
03/16/15 18:02:38	Abalone	1	3	4	4	1
03/16/15 17:02:37	Abalone	1	3	4	4	1
03/16/15 16:02:37	Abalone	1	3	4	4	1
03/16/15 15:02:37	Abalone	1	3	4	4	1
03/16/15 14:02:37	Abalone	1	3	4	4	1
03/16/15 13:02:37	Abalone	1	3	4	4	1
03/16/15 12:02:37	Abalone	1	3	4	4	1
03/16/15 11:02:37	Abalone	1	3	4	4	1
03/16/15 10:02:37	Abalone	1	3	4	4	1
03/16/15 09:02:37	Abalone	1	3	4	4	1

• AMPS Bridge Power Port Report

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There is a page selector and a horizontal scroll bar at the bottom of each window:



- Use the page selector to view older records.
- Use the horizontal scroll bar to view the data columns that extend beyond the frame of the window.

The **AMPS Output Power Report**, **AMPS Solar Input Port Report**, and the **AMPS Bridge Power Port Report** side tabs include system information packet records that contain information on functions that are frequently queried by pilots. These are functions that are available on every Wave Glider SV3 vehicle, as opposed to functions associated with custom payloads or optional equipment. The following table was developed to make it easier for Pilots to quickly locate information on these functions:

Function	WGMS Side-Tab	Power Domain	Module #	Port #
Weather Station	AMPS Output Power Report	1	4	1
Sensor Port 3 (S3)	AMPS Output Power Report	1	4	2
Light Bar	AMPS Output Power Report	1	4	3
Water Speed Sensor	AMPS Output Power Report	1	4	5

Cell Modem	AMPS Output Power Report	1	4	6
Radar Reflector	AMPS Output Power Report	1	5	1
Float Recovery Device	AMPS Output Power Report	1	5	2
Ethernet Switch	AMPS Output Power Report	1	5	3
High Voltage Port (HV)	AMPS Output Power Report	1	5	8
Sensor Port 2 (S2)	AMPS Output Power Report	1	7	1
Sensor Port 1 (S1)	AMPS Output Power Report	1	7	2
AIS	AMPS Output Power Report	1	7	4
Iridium Modem	AMPS Output Power Report	1	32	1
Ublox GPS Module	AMPS Output Power Report	1	32	2
Vehicle Management Computer	AMPS Output Power Report	1	32	3
Thruster	AMPS Output Power Report	2	1	1
Expansion Port 1 (G1), [Vcons, Vprod]	AMPS Bridge Power Port Report	1	11	1,2
Expansion Port 2 (G2), [Vcons, Vprod]	AMPS Bridge Power Port Report	1	12	1,2
Expansion Port 3 (G3), [Vcons, Vprod]	AMPS Bridge Power Port Report	1	8	1,2
Umbilical Expansion Port (U1), Vcons	AMPS Bridge Power Port Report	1	15	1
Debug Expansion Port (D1) [Vcons, Vprod]	AMPS Bridge Power Port Report	1	14	1,2
Sub Expansion Port, Vcons	AMPS Bridge Power Port Report	2	0	5
Fore Solar Panel	AMPS Solar Input Port Report	1	9	1
Mid Solar Panel	AMPS Solar Input Port Report	1	10	1
Aft Solar Panel	AMPS Solar Input Port Report	1	10	2



Note

If you click on the  icon at the beginning of each information packet record...

Vehicle	Abalone System Information Packet Records						
Record Info Local Page Errors Telemetry	 TimeStamp  03/17/15 15:02:31  03/17/15 14:02:31  03/17/15 13:02:31  03/17/15 12:02:31	Vehicle Abalone Abalone Abalone Abalone	Report Versi... 1 1 1 1	Total Batter... 910599 910599 910599 910642	Solar Power ... 0 0 0 0	Output Port ... 11771 11798 11675 11806	Battery Char. -2 -1 -2 -2

a window containing information on the data packet that generated the packet record will appear:

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The screenshot shows a web application window titled "LIQUID ROBOTICS" with a menu bar containing "File" and "Help". Below the menu bar is a toolbar with a "Close" button and a dropdown menu labeled "System Info Record Form". The main content area has a header bar with "System Inf..." and "03/17/2015 17:02:31: Edit". Below the header bar is a sidebar with a "Record Info" button. The main content area is divided into two tabs: "System Information Packet" (selected) and "Related Info". The "System Information Packet" tab displays the following information:

- System Information Packet Info**
- TimeStamp**: 03/17/15 10:02:31 (with a calendar icon) and Vehicle (with a vehicle icon). A button labeled "Abalone" is also present.
- System Information Packet**: 03/17/15 10:02:33 am (with a calendar icon).
- Latitude(deg)**: 37.410816666667 and **Longitude(deg)**: -122.00447333333.
- Record Data**: A long hexadecimal string: 0150E50D0000000000EA2D0000FEFFFFF000000001701040100020400000030400000404000005040100060401000105010002050000003050100040500000050500000605000007050000080500000107000002070000030700000407010005070000060700000120010002200100032001000.

This information is useful to WGMS developers, but is not relevant to most Wave Glider operators.

Errata: WGMS Admin Guide Rev F

No errata have been reported.