

6877-1 Goreway Drive Mississauga, Ontario Canada, L4V-1L9 Tel: (905) 677-5533 Fax: (905) 677-5030 e-mail: rms@rmsinst.com http://www.rmsinst.com

RELEASE NOTES

AARC5XX Support Software – Oct/2020

Documentation & Compatibility -

The Support Software is fully documented in Appendix G of the AARC5XX User's Guide. Refer always to the most recent version of the user's guide.

		Full Compatibility	Partial Compatibility
AARC500 Host FW:	Gen-1:		≥ RMS1878-02-F
	Gen-2:	≥ RMS11029-03-E	≥ RMS11029-01-A
AARC510 Host FW:		≥ RMS11031-02-G	≥ RMS11031-01-B
AARC51 Host FW:		≥ RMS11093-01-G	≥ RMS11093-01-B
AARC52 Host FW:		≥ RMS11122-02-B	≥ RMS11122-01-F
Front End FW:		≥ RMS1877-04-E	≥ RMS1877-03-E

ExportDAARC (Windows-Based Data Exporting):

v3.3	Oct/2020	 ExportMag page: Support line number.
		 ExportMag, ExportSerial, ExportAnalog, ExprtEth pages: Ensure that Event #0 to #3 fields in GBN files are treated as unsigned values.
		 ExportSerial page: The name of '.gbn' output files must always be based on the name of the input file. (Re-naming, per '.txt' output, does not apply to '.gbn' files.)
		NOTE: N/A to AARC5XX data exporting.
		 Merge and Export&Merge pages: Handle gracefully non-numeric tokens in auxiliary files; identify with '-9.9999999999e+009'.
		Header information for '.xyz' output now in generic form.
		 ExportEth page: In time-aligned raw output mode, when scanning was at a rate slower than the incoming data block rate, the program can now automatically generate fiducial values for the intermediate blocks (based on a user-defined 'delta-FID' parameter). Event tags for such intermediate blocks are derived from the last valid tag read.
		Any leading input preceding the first pre-amble is now eliminated from the output (in time- aligned raw output mode).
		 General: Changed the ordering and initial focus of tabs.
v3.2	Apr/2020	 ExportLog page: Support options to export data files transmitted by (D)AARC5XX system in fixed-length binary format.
		ExportSerial page: Support RAW-TS (Raw, Time Stamped) output mode.
v3.1	Sep/2018	 ExportMag page: Support option to export barometric-pressure and temperature data in units of 'mbar' and '°C', respectively. Intended for systems that include the embedded sensors option.
		Protect against potential issue when exporting auxiliary GPS fields for '.gbn' data files.
v3.0	Jan/2017	 ExportMag and ExportLog pages: The software supports data recorded in systems with GPS output set to <u>'On-Full'</u> mode. This mode was introduced in systems with firmware per the 'full compatibility' section under 'Documentation & Compatibility' (above). In this mode

		auviliant CPC data (OL # of actallitan LIDOR, and of differential, and undulation) are
		auxiliary GPS data (QI, # of satellites, HDOP, age-of-differential, and undulation) are multiplexed. With the GPS output set to <u>'On-Basic'</u> (which corresponds to the setting 'Enabled' in earlier firmware revisions) the only auxiliary variable recorded is the QI.
		The export software will automatically split the multiplexed variables into separate fields in output files (flat-ASCII and '.gbn'). When working on files recorded in 'On-Basic' mode, the program will correctly identify the QI as the only auxiliary field encoded in packets; all other auxiliary fields will be output as 0's in flat-ASCII files, and Geosoft's place-holders ('*') in '.gbn' files.
		 Merge and Export&Merge pages: For output to '.xyz' files, the header accounts properly for optional FE-analog data and the new multiplexed auxiliary GPS data (see above).
		When merging with the GPS option, one may set 'Line Number = 0' so that a single line (Line 0) is assumed for the complete file. (Without the GPS option, 'Line Number = 0' is used to select the last field in the NAV data as the line number.)
v2.6	Aug/2016	 ExportMag page: Corrected problem when exporting in conventional units, whereby Lat values between 0° and 1° South, or Long values between 0° and 1° West, would be displayed with '+' instead of '-' prefix. The problem did not affect output using native units, nor the '.gbn' output file.
v2.5	Sep/2015	 ExportLog page: Extended support of 'Raw n Mag' format to any number of mag channels (n), in the range 1–8. In the past, only 4- or 8-channel formats were supported.
v2.4	Sep/2014	 Direct output to Geosoft '.gbn' binary format now supported in ExportMag, ExportSerial, ExportAnalog and ExportEth pages.
v2.3	Jan/2014	 Merge and Export&Merge pages: The header in the output file generated when using 'xyz' format, now displays the units of variables taking into account the setting of the 'use conventional units' option in ExportMag. (In the past, <i>native</i> units were always shown.)
		 ExportMag page: When exporting with the 'test format' option enabled, event tags are now output as four 3-digit decimal numbers (instead of one 8-digit hexadecimal number). This simplifies importing into some analysis software packages. For the same purpose, the time field is in the format 'hh mm ss.sss' (instead of 'hh:mm:sss.sss').
v2.2	Aug/2013	 ExportMag page: Extended support to up to 8 TF channels and 3 gradients (from the original 4 TF channels and 3 gradients).
v2.1	Jan/2013	 <i>ExportMag</i> page: The program handles cleanly total-field values that are out-of-range. <i>ExportSerial</i> page: Supports a new Raw-Logs protocol, which generates separate log files for a channel that recorded multiple GPS logs (for post-flight corrections) in raw form.
		NOTE: N/A to AARC5XX data exporting.
v2.0	Sep/2012	 ExportMag page: With embedded GPS data in the 'd' file, the option to include in the output the GPS quality indicator (QI) has been replaced with an option to use for output 'conventional' units instead of the 'default' units native to the system. While default units are more efficient, conventional units facilitate interpretation.
		The QI is now always included in the output. (In past versions, this was optional to allow compatibility with now outdated versions of firmware.)
		Note that the default (disabled) setting of past versions ('do not include QI'), corresponds to output using the default units that have always been employed in the past.
		The option 'include time field in output' has been re-labeled, 'use test format (includes time field)'.
		 Merge and Export&Merge pages: The merge process for 'embedded GPS option' takes into account the type of output units selected for ExportMag; i.e., if conventional units are selected, this will be reflected in the output of the merge.
v1.9	Sep/2012	 Merge and Export&Merge pages: The merge process for 'embedded GPS option' now uses a different algorithm to generate the output. It requires much less memory than the previous one, with negligible difference in execution time.
		Improved error reporting for insufficient memory conditions.
v1.8	Mar/2012	Baseline

Console-Based Data Exporting Programs:

ExportMag

v3.0	Jan/2017	_	The software supports data recorded in systems with GPS output set to <u>'On-Full'</u> mode. This mode was introduced in systems with firmware per the 'full compatibility' section under 'Documentation & Compatibility' (above). In this mode auxiliary GPS data (QI, # of satellites, HDOP, age-of-differential, and undulation) are multiplexed. With the GPS output set to <u>'On-Basic'</u> (which corresponds to the setting 'Enabled' in earlier firmware revisions) the only auxiliary variable recorded is the QI. The export software will automatically split the multiplexed variables into separate fields in output files. When working on files recorded in 'On-Basic' mode, the program will correctly identify the QI as the only auxiliary field encoded in packets; all other auxiliary fields will be output as 0's.
v2.9	Aug/2016	-	Corrected problem when exporting in <i>conventional</i> units, whereby Lat values between 0° and 1° South, or Long values between 0° and 1° West, would be displayed with '+' instead of '-' prefix. The problem did not affect output using <i>native</i> units.
v2.8	Jan/2014	-	When exporting with the 'test format' option enabled, event tags are now output as four 3- digit decimal numbers (instead of one 8-digit hexadecimal number). This simplifies importing into some analysis software packages. For the same purpose, the time field is in the format 'hh mm ss.sss' (instead of hh:mm:sss.sss'.
v2.7	Aug/2013	-	Extended support to up to 8 TF channels and 3 gradients (from the original 4 TF channels and 3 gradients). Additional protection against out-of-range input to various prompts.
v2.6	Jan/2013	_	The program handles cleanly total-field values that are out-of-range.
v2.5	Sep/2012	-	The option to include in the output the GPS quality indicator (QI) has been replaced with an option to use for output 'conventional' units instead of the 'default' units native to the system. While default units are more efficient, conventional units facilitate interpretation.
			The QI is now always included in the output. (In past versions, this was optional to allow compatibility with now outdated versions of firmware.)
			Note that the default reply to the prompt per the previous interpretation ('0' = do not include QI), corresponds to output using the default units that have always been employed in the past.
			The option to 'include time field in output' has been re-labeled, 'use test format (includes time field)'.
v2.4	Apr/2011	-	Minor, cosmetic changes.
v2.3	Jan/2011	_	The program supports data packets recorded with AARC5XX systems with the GPS receiver option, that include the <i>GPS quality indicator</i> . These are systems with Front End FW \ge RMS1877-03-D and Host FW \ge RMS1878-02-F.
v2.2	May/2010	_	The program supports data packets from AARC5XX systems that include the <i>Front-End-sampled analog inputs option</i> . The program identifies whether analog data are present and, if so, appends the values at the end of magnetics and (if applicable) GPS data in the output file.
v2.1	Jan/2010	В	aseline

ExportEth

v1.0 Feb/2009 – Initial release. Program to export Ethernet (TCP/IP) files, tDDHHMM.

ExportLog

v1.3	Sep/2015	 Extended support to any number of mag channels, in the range 1–8. In the past, only 4- or 8-channel formats were supported.
v1.2	Apr/2008	 Initial release: data exporting for (D)AARC500 raw.dat files (80-Hz/160-Hz test-mode data, or calibration data), and Front End raw data.

Configuration Reader:

SeeInDAARC

v1.50 Apr/2020 Supports new parameters (DAARC500): TCP/IP streaming output; fixed-length-binary magnetics data output format; thresholds for calibration-quality measure; auto-reset RLSQ initial conditions option. v1.40 Jul/2019 Supports new parameters: FOM-display options; redundant recording option; remote control status packet mode; gradient geometry parameters, MAD parameters. v1.31 Sep/2018 Outputs 'Mag Monitor Mode' parameter for AARC52 device type. v1.30 Apr/2018 Supports new device type, AARC52. v1.31 Sep/2018 Supports new device type, sthe margin parameter for attitude-controlled calibrations has units of counts' (source = voltage-normal or voltage-reversed), or 'meters' (source = GPS attitude). v1.20 Apr/2017 Supports three possible sattings for the variable that defines the GPS output mode: 'Off, 'On-Basic' and 'On-Full'. The first two correspond to the only two settings supported in the past, 'Disabled' and 'Enabled'. v1.20 Jan/2016 Full support of AARC51-type devices. In previous versions, configurations from AARC51 units had to be processed under AARC510, and AARC51 devices, signal IDs with index numbers ≥ 88 were displayed incorrectly. v1.20 Jan/2018 Full support of AARC51-type devices. In previous versions, configurations from AARC51 units had to be processed under AARC510, and AARC51 devices, signal IDs with index numbers ≥ 88 were displayed incorrectly. v1.20 Jan/2016 Full support of AARC51-type devices. In previous versions, config	v2.00	Oct/2020	 Supports new parameters: Secondary TCP/IP streaming input connection; recording-mode for primary and secondary TCP/IP connections. Remote Control port operating mode: legacy, extended, line number.
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- Corrects an issue with the displaying of the 'TCP/IP Data Recording Status' parameter for AARC52 device type. v1.30 Apr/2018 - Supports new device type, AARC52. - For AARC51/52 device types, the margin parameter for altitude-controlled calibrations has units of 'counts' (source = voltage-normal or voltage-reversed), or 'meters' (source = GPS altitude). - For DAARC500/DAS500/AARC500/AARC510 device types, the margin parameter for auto-adaptive mode has units of 'counts' (source = voltage-normal or voltage-reversed), or 'meters' (source = GPS altitude). v1.21 Jan/2017 - Supports three possible settings for the variable that defines the GPS output mode: 'Off', 'On-Basic' and 'On-Full'. The first two correspond to the only two settings supported in the past, 'Disabled' and 'Enabled'. v1.20 Jan/2016 - Full support of AARC51-type devices. In previous versions, configurations from AARC51 units had to be processed under AARC510 type, which left out a few parameters unique to the AARC51. v1.20 Jan/2016 - Full support of AARC51-type devices. In previous versions, configurations from AARC51 units had to be processed under AARC510, and AARC51 devices, signal IDs with index numbers ≥ 88 were displayed incorrectly. v1.12 Jan/2016 - Full support of AARC51-type devices and entry for DAS500 devices. Added protection against partially initialized 'xlist' files, which may contain scan rate divider factors set to zero. - <	v1.40	Jul/2019	
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v1.10 Jan/2014 Baseline.			
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