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# (D)AARC5XX Release Package 2026 – Summary – PRELIMINARY

Host FW:		DAARC500 11030-05-A	AARC510 11031-04-A	AARC52 11122-04-A	DAS52 11164-02-A
1	Real-time monitoring of <i>custom devices</i> (typically radar/laser altimeters) now observes user-selectable high and low thresholds. Color-coding identifies 'within thresholds' (green background), 'outside thresholds' (yellow), and 'no valid data' (red) conditions. [DAARC500: Appx. O; others: Appx. N]	•	•	•	•
2	User-selectable threshold parameters, for the improvement ratio and the norm of a calibration's solution/model, are now used to qualify the performance of operation in adaptive mode. The qualifying measure is also encoded in the background color of the ADAPT button.  [Sec. 3.5.2.1]	•	•	•	
3	Full statistics are now provided for any retrieved RLSQ solution.  [DAARC500: Appx. G]  [Others: Appx. E]	•	•	•	
4	Introduced enhanced safety measures to protect the System Partition in embedded Flash. [Sec. 5.2.1]	•	•	•	•
5	Post-flight compensated output files now include GPS and FE- analog data, if present in the original data file. This ensures the format of the (binary) output file is always identical to that of the original file. [DAARC500: Sec.3.10.1; others: Sec. 3.9.1]	•	•	•	
6	Real-time output of high-passed compensated TF signals while adaptive mode is engaged.	•	•	•	

## Front End FW:

#### RMS1877-06-A

a. In addition to doing so at power-up, the Front End now also monitors internal temperature at a critical test point post-power-up (at least 20 minutes after power-up, every time a run mode is started and at any other opportunity not interfering with real-time tasks). Measurements are checked against the specified operating range, taking into account normal internal heat build-up, and a unique warning is issued if out of range. The warning is reflected on the error indicator on the main dialog (top-right corner), as well as in the event-tags field included in all recorded and/or transmitted data packets.

[Sec. 5.3.2]

# (D)AARC5XX Support Software - Oct/2025

#### **ExportDAARC**

- **v4.2** ExportSerial and ExportEth: Support protocols/interpretation for LR-D1-Pro radar altimeter.
  - ExportSerial: Support 'Ag-Nav Line #' interpretation for ASC/BIN-protocol data.
  - Cleanup and enhanced protection measures when handling file names.

#### **SeeInDAARC**

v2.61 – Adds threshold parameters (IR, norm) to qualify performance in adaptive mode (DAARC500, AARC510, AARC52).

# **Console-Mode Programs**

## BatchMerge.bat

v1.0 – Unchanged.

## MergeDAARCg

v1.0 – Unchanged.

# **ExportMag**

v3.1 – Unchanged.

#### **ExportAnalog**

v1.7 – Unchanged.

#### **ExportSerial**

v3.1 – Updated for functional equivalence to ExportSerial page in ExportDAARC v4.2.

#### **ExportEth**

v1.2 – Updated for functional equivalence to ExportEth page in ExportDAARC v4.2.

#### MergeDAARC

v2.0 – Unchanged.

## **ExportLog**

v1.3 – Unchanged.

C:\AAADC-3\Host FW - Ancillary\FW Release Notes\Release Package 2026 - PRELIMINARY.doc