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(D)AARC5XX Release Package 2024 – Summary

Host FW:

		DAARC500 11030-04-F	AARC510 11031-03-F	AARC52 11122-03-F	DAS52 11164-01-D
1	Introduced the Vector Mag Quality Measure, which facilitates real-time assessment of the overall soundness of fluxgate (vector) magnetometer measurements. When monitored on the numerical display, color coding readily alerts the operator of signal loss or excessive noise/bias levels. [Table 3.3]	•	•	•	
2	Introduced a configuration parameter to allow a user-selectable offset between host IP addresses for logical TCP/IP connections beyond the primary one. [Sec. 3.4.9 (DAARC), 3.4.6 (others)]	•	•	•	•
3	Added the Roke Type-2 radar altimeter to the list of ancillary sensors supported as 'custom devices' for enhanced real-time monitoring. [Sec. L.5 (510, 52), O (DAARC)]	•	•	•	•
4	The system now allows the user to change the default IP address of the server port (J16), and to define that of the default gateway. [Application Note DAARC5XX-036]	•			
5	Output via the Remote Control Port is now non-blocking. This prevents potential issues in the event the control lines on the serial interface are improperly driven by some external device.	•			
6	TCP/IP data monitoring windows in the custom numerical display now offer more flexibility, allowing both ASCII-text and binary encoding. Such enhanced functionality further narrows the gap between small-foot-print models (AARC510, AARC52, DAS52) and the DAARC500. For instance, it allows real-time monitoring of specific user-selected fields (e.g., ROIs) within RSI's (radiometrics) data packets. [Sec. 3.4.6]		•	•	•

Front End FW:

RMS1877-05-C – Unchanged.

(D)AARC5XX Support Software – Apr/2024

ExportDAARC

- v3.9** – *ExportEth*: Support RSI-512 format (ROI+DN+UP or ROI+DN).
- *ExportSerial*: Support additional logs under 'Raw-Logs' protocol type: versiona, rxstatusa, rxconfiga, rangeempa, rangeemp2a, and satvis2a.
- *ExportEth* and *ExportSerial*: Support protocols/interpretation for Roke Type-2 radar altimeter.

SeeInDAARC

- v2.50** – Adds Roke Radar(s) to custom device parameters (DAARC500, AARC510, AARC52).
- New parameter: Offset to Next (i.e., 'delta' between host IP addresses – DAARC500, AARC510, AARC51, AARC52).
- Enhancements to TCP/IP data monitor windows.

Console-Mode Programs

ExportMag

v3.0 – Unchanged.

ExportAnalog

v1.6 – Unchanged.

ExportSerial

v2.9 – Unchanged.

ExportEth

v1.0 – Unchanged.

MergeDAARC

v2.0 – Unchanged.

ExportLog

v1.3 – Unchanged.