

Curtiss-Wright Technical Information Bulletin

March 2020

General information

The Acra KAM-500 Databook (HW/BK/0002) comprises data sheets for released Acra KAM-500 products. The latest release of the Acra KAM-500 Databook is dated 4 Mar. 2020.

A Recorders Databook (HW/BK/0039) comprising data sheets for released Recorder products is now available. This new release of the Recorders Databook is dated 4 Mar. 2019.

The Applications Handbook (HW/BK/0005) comprises technical notes for Curtiss-Wright products. The latest release of the Applications Handbook is dated 3 Sep. 2019.

DAS Studio 3 is the setup software for data acquisition units, network switches, recorders and ground stations. The latest release of DAS Studio 3 is version 3.4.12.

XidML SDK 1.0 for XidML 3.0 is now available. It contains the source code that demonstrates the basic usage of the XidML API.

If your license is covered by our maintenance contract, you are entitled to upgrade your current version of GS Works with this new release, free of charge. For a copy of the latest release, contact acra-support@curtisswright.com. If in doubt whether or not your license is covered, contact dub_license-request@curtisswright.com with the confirmation of order reference (COO/X/XXX) and the SysID of the license to be checked.

To get a copy of any released software or documentation mentioned here, contact acra-support@curtisswright.com.

GS Works 9 data analysis and replay tool updates

The GS Works 9 data analysis and replay tool is constantly updated and improved over time to accommodate new functionality, improve performance and the user experience and to keep up to date with Curtiss-Wright flight test instrumentation product range and data standards. Existing customers can avail of these updates through a maintenance contract, renewing your license gives you access to several new features that have been added since this contract lapsed. For details, see "GS Works 9" on page 3.

Technical information

New FAQs

N/A

New tutorials

N/A

New technical notes

N/A

New user guides

N/A

Training

Curtiss-Wright offers a variety of training courses, within SVS/TRN/100, which help delegates develop the skills needed to configure the various Curtiss-Wright products. Standard courses include introductory training for Acra KAM-500 airborne data acquisition hardware, advanced training on Acra KAM-500 airborne data acquisition systems and training for GS Works 9 real-time and post-processing data analysis. Course content can be standard, user-definable or a combination of both. We strongly recommend training for those who are not familiar with Curtiss-Wright equipment.

Document changes

The content of the following documents has been revised since the previous release of the bulletin.

Acra KAM-500 products

Product - reference	Action
KAD/ADC/135/B 6 Feb. 2020 DST/AA/017	In the "Bridge adjust DC current outputs" table, changed the TYP/MAX DC error.
KAM/CHS/02F 21 Feb. 2020 DST/X/033	Under "Ordering information", added clarified that spare lids (ACM/LID/001) must be ordered separately.
KAM/CHS/03F 21 Feb. 2020 DST/P/062	Clarified that the PSU to be used must be the /B revision. Under "Ordering information", clarified that spare lids (ACM/LID/001) must be ordered separately. Added ACM/LID/001 to Related products table.
KAM/CHS/03U/E 21 Feb. 2020 DST/W/042	Clarified that the PSU to be used must be the /B revision. Under "Ordering information", clarified that spare lids (ACM/LID/001) must be ordered separately.
KAM/CHS/06U/E 21 Feb. 2020 DST/W/052	Clarified that the PSU to be used must be the /B revision. Under "Ordering information", clarified that spare lids (ACM/LID/001) must be ordered separately.
KAM/CHS/09U/E 21 Feb. 2020 DST/W/057	Clarified that the PSU to be used must be the /B revision. Under "Ordering information", clarified that spare lids (ACM/LID/001) must be ordered separately.
KAM/CHS/13U/E 21 Feb. 2020 DST/W/065	Clarified that the PSU to be used must be the /B revision. Under "Ordering information", clarified that spare lids (ACM/LID/001) must be ordered separately.

Recorder products

Product - reference	Action
NET/REC/001 29 Aug. 2019 DST/U/039	In the "Recording with the NET/REC/001" section, specified that the NET/REC/001 operates in a promiscuous mode. In the "Ordering information" section, clarified the description for the CON/PSU/007/CS1.
NET/REC/002 19 Feb. 2020 DST/V/044	In the "Recording with the NET/REC/002" section, specified that the NET/REC/002 operates in a promiscuous mode. In the "Ordering information" section, clarified the description for the CON/PSU/007/CS1. Removed references to Recorder Studio 3 from "Supporting software" and "Related documentation" sections. Added reference to TEC/NOT/067 to "Related documentation" section.
SSR/CHS/001/C 21 Feb. 2020 DST/AC/036	In the "Connector pinout of the voice interface" table, added ACC/CON/053 as the cable to be used in place of micro D cable. Under "Ordering information", added clarified that spare lids (ACM/LID/001) must be ordered separately.

User manuals

Product - reference	Action
DAS Studio 3 User Manual SW/BK/0015 12 Feb. 2020	<p>In Chapter 3, Example, in the "Network to legacy PCM programming" section added a Note to clarify when using a legacy PCM system over Ethernet.</p> <p>In Chapter 4, Discover, updated screens and procedures to show an "Expected Gateways" option in place of the previous "Auto-detect IP Addresses of Ethernet devices that support SNMP" check box.</p> <p>In Chapter 6, Program, in the "Errors when verifying or programming instrumentation" section added an additional description and screen for a new Error dialog, which shows missing devices.</p> <p>In Chapter 25, Applications, added a new "EFABus-Express Builder" section.</p> <p>In the "MIL-STD-1553 Builder" section, updated some screens and descriptions to address the new Variant Messages function.</p> <p>In the "STANAG-3910 Builder" section, updated some screens and descriptions to address the Tag Parameter and the new Variant Messages function.</p>

Technical notes

Product - reference	Action
TEC/NOT/083 - Using the KAM/MEM/113 3 Mar. 2020 TEC/NOT/083	In section 53.1.2 Triggers, clarified steps 7 and 8. In section 53.3.2 Formatting a CF card in DAS Studio 3 specified "on a KAM/MEM/113" in heading title. Added section 53.3.3 Formatting a CF card on a KAM/MEM/113 using fixed data in DAS Studio 3. Modified section 53.4.2 Power loss or power off during recording. Added the following sections: 53.4.12 Reading a CF with Windows 10 53.4.13 IENA timestamp and PCAP timestamp 53.4.14 Recording packetizers 53.4.15 KAM/MEM/113 and mode select

Environmental products

Product - reference	Action
Environmental qualification handbook for Acra Network Switch and Recorder products HW/BK/0019 3 Mar. 2020	On page 1 "Design considerations", changed battery replacement from every 10 years to every 4 years. Added DRE/SSD/001 to Test setup 1 list. On page 2, added Test setup 7 and Test setup 8. Made modifications to Table 2 on pages 4, 5, 6, and 8. Made modifications to Table 3 on pages 11. Added new: Table 4, Table 5, and Table 6. Updated Table 9, "Comparison matrix" to add DRE/CFM/009/32GB, DRE/CFM/010/128GB, DRE/SSD/003/240GB, NET/REC/001/AB1, NET/REC/001/KH1, NET/REC/006/B/AAF, and SSR/CHS/002.

DAS Studio 3

The current release is 3.4.12. Features of the software include the following:

- Discovers, configures, manages and programs Data Acquisition Units (DAUs), recorders, switches, ground station boards, and third party equipment
- Functionality can be extended through external plug-in applications
- Supports the open metadata standard

GSX-500

GS Works 9

The current release of GS Works 9 is 9.2.2. Features of GS Works 9.2.2 include the following:

- Interactive interface which allows custom data displays, parameter definitions, analysis options and test setup
- XidML® compatible (versions 2.41 and 3.0)
- Supports Packet CAPture (PCAP) format
- Supports avionic bus standard IRIG-106 PCM
- Supports packetizers for ARINC-429, CAN, MIL-STD-1553, and in TTP XidML 3.0
- Supports MPEG-4 and H.264 video coding formats and audio decommutation
- Client/Server Mode
- Supports CVSD audio

GTS SDK 3.3

The current release of GTS SDK is 3.3. Features of GTS SDK 3.3 include the following:

- Set up using a XidML 3.0 file
- Acquisition of minor PCM frame data of up to 20Mbps for each channel
- GTS SDK 3 real-time API is interrupt driven, no polling is performed
- Direct memory access data transfer relieving CPU power
- Minor frame loopback function for testing without external PCM stream
- Code samples for Borland C++, Visual Studio C++ .NET and Visual Studio C# .NET
- Driver for GTS-500 boards

For details of known GSX-500 issues, see "GSX-500 software known issues" on page 28.

Hardware status

Released products

Since the previous bulletin, data sheets for the following products have been given a standard release.

Acra KAM-500 products

Product - reference	Description	Features
KAD/UBM/106 26 Feb. 2020 DST/AF/038	RS-232, RS-422 or RS-485 serial bus snarfer - 16ch	<ul style="list-style-type: none">• Monitors up to 16 RS-422/485/232 busses• 1 KB buffer per channel (snarfer)• Bit-rates from 300 bps to 1,000,000 bps• 7/8 bits per word with odd, even or no parity

Axon products

Product - reference	Description	Features
AXN/ENC/401 17 Feb. 2020 DST/AE/002	IRIG-106 PCM encoder (PMF output)	<ul style="list-style-type: none">• IRIG-106 Chapter 4 PCM• Dual RS-422 outputs up to 40 Mbps; 10 PCM codes; separate PCM codes per output• NRZL TTL output up to 16 Mbps• PMF output up to 8 Mbps• PCM encoding of any system parameter without the need for separate Ethernet bus monitor

Legacy products

Since the previous bulletin, data sheets for the following documents have been moved to legacy.

N/A

Obsolete documents

Since the previous bulletin, the following documents have been made obsolete.

N/A

Appendix

Reference numbers and issue dates for hardware data sheets

The following is a list of the controlled documents and their issue dates.

To ensure that you have the most up-to-date data sheet, compare your documentation against the issue date(s). To receive updated copies of any data sheets, e-mail the required list to acra-support@curtisswright.com. If you are a member of our web site, you can view and download updated data sheets from www.curtisswrightds.com.

Product	Issue date reference number
Axon products	
Axon handling precautions	29 Jan. 2019 DST/AE/024
AXN/ABM/401	21 Feb. 2019 DST/AC/021
AXN/ADC/401	2 Jul. 2019 DST/AB/019
AXN/ADC/405	3 Jul. 2019 DST/AE/004
AXN/ADC/406	20 Dec. 2019 DST/AF/010
AXN/BCU/401	4 Dec. 2019 DST/AB/021
AXN/BCU/402	25 Oct. 2019 DST/AF/008
AXN/CHS/06U	25 Nov. 2019 DST/AB/031
AXN/CHS/09U	10 Oct. 2019 DST/AC/029
AXN/CHS/16U	10 Oct. 2019 DST/AB/022
AXN/DSI/401	6 Feb. 2020 DST/AE/020
AXN/DSI/402	6 Feb. 2020 DST/AF/036
AXN/EXT/401	19 Dec. 2019 DST/AB/025
AXN/ENC/401	17 Feb. 2020 DST/AE/002
AXN/ITE/01U	28 Aug. 2018 DST/AB/023
AXN/MBM/401	22 Oct. 2019 DST/AF/002
AXN/MBM/402	21 Oct. 2019 DST/AF/003
AXN/TDC/401	2 Sep. 2019 DST/AE/005
AXN/UBM/401	24 Jul. 2019 DST/AC/022
CON/PSU/008	15 Nov. 2019 DST/AF/037
Acra KAM-500 products	
3D drawings	10 Oct. 2019 DST/X/034
ACC/HSK/001	9 Jun. 2016 DST/J/064
ACC/TRF/002	17 Nov. 2017 DST/AC/020
ACD/BAC/002/B	30 Nov. 2016 DST/W/106
ACD/BAC/003/B	9 Feb. 2015 DST/W/107
ACD/BAC/004/B	9 Feb. 2015 DST/W/108
ACD/BAC/005	9 Feb. 2015 DST/W/017
ACD/BAC/006	17 Jul. 2017 DST/AB/003
ACD/BAC/007	18 Jul. 2017 DST/AB/004

Product	Issue date reference number
ACD/CJB/001	23 Feb. 2015 DST/P/014
ACD/CJB/002	16 Apr. 2015 DST/W/018
ACD/CJB/003	16 Apr. 2015 DST/Y/042
ACD/CJB/005	5 Dec. 2016 DST/AB/001
ACM/EXT/001/B	9 Feb. 2015 DST/K/003
BAC/PSU/007	9 Feb. 2015 DST/W/118
Cables	24 Mar. 2016 DST/J/062
CON/KAD/002/CP	8 Jun. 2016 DST/R/008
CON/KAD/002/SR	8 Jun. 2016 DST/R/009
CON/KAD/003/CP	5 Feb. 2018 DST/S/042
CON/KAD/004	16 Apr. 2015 DST/S/040
CON/KAD/005/CP	8 Jun. 2016 DST/S/041
CON/KAD/005/SR	8 Jun. 2016 DST/T/095
CON/KAD/008/CP	8 Jun. 2016 DST/T/066
CON/KAD/008/SR	8 Jun. 2016 DST/T/067
CON/KAD/010	15 Feb. 2018 DST/W/016
CON/PSU/007	17 Apr. 2015 DST/W/115
CON/SAV/001	17 Apr. 2015 DST/AB/005
CON/SAV/002	7 Apr. 2016 DST/AB/006
CON/SAV/003	17 Apr. 2015 DST/AB/008
Handling precautions	11 May 2016 DST/U/055
JIG/UNI/001/D	26 Nov. 2019 DST/AE/019
KAD/ABM/101	1 Feb. 2018 DST/V/064
KAD/ABM/102/B	18 May 2017 DST/Y/008
KAD/ABM/102/B/EM1	15 Apr. 2015 DST/Y/051
KAD/ABM/103	23 Feb. 2016 DST/X/055
KAD/ADC/010/C	17 Apr. 2015 DST/R/046
KAD/ADC/011/C	18 Mar. 2015 DST/R/044
KAD/ADC/105/B	24 Apr. 2018 DST/U/028
KAD/ADC/106/C	7 Nov. 2018 DST/U/033
KAD/ADC/109/C/QB120	2 Dec. 2016 DST/U/032

Product	Issue date reference number
KAD/ADC/109/C/S1	24 Apr. 2018 DST/T/097
KAD/ADC/109/C/S2	24 Apr. 2018 DST/U/031
KAD/ADC/111	20 Feb. 2018 DST/X/058
KAD/ADC/112	13 Apr. 2018 DST/V/080
KAD/ADC/113/B	3 Feb. 2020 DST/V/059
KAD/ADC/115	13 Apr. 2018 DST/Y/031
KAD/ADC/116	24 Apr. 2018 DST/S/083
KAD/ADC/117/B	24 Apr. 2018 DST/U/034
KAD/ADC/117/EC1	20 Jun. 2018 DST/T/098
KAD/ADC/118	24 Apr. 2018 DST/P/065
KAD/ADC/120	24 Apr. 2018 DST/R/006
KAD/ADC/126/B	13 Apr. 2018 DST/V/060
KAD/ADC/129/S1	8 May 2019 DST/S/085
KAD/ADC/129/S2	13 Apr. 2018 DST/V/081
KAD/ADC/130	13 Apr. 2018 DST/W/123
KAD/ADC/134/B	28 Nov. 2018 DST/AA/014
KAD/ADC/135/B	6 Feb. 2020 DST/AA/017
KAD/ADC/136/C	10 May 2017 DST/AC/006
KAD/ADC/141	20 Mar. 2017 DST/AC/014
KAD/ARR/101	13 Apr. 2015 DST/U/047
KAD/BCU/101/E	22 Sep. 2017 DST/Y/029
KAD/BCU/105/E	27 Jan. 2016 DST/Y/034
KAD/BCU/140/D	19 Mar. 2019 DST/AA/037
KAD/CBM/101	22 Aug. 2016 DST/P/064
KAD/CBM/102	13 Apr. 2015 DST/L/043
KAD/CBM/103	15 Apr. 2015 DST/V/071
KAD/CBM/104	1 Jul. 2016 DST/V/072
KAD/CBM/105	10 Aug. 2016 DST/Y/038
KAD/CBM/107	30 Jan. 2019 DST/Z/016
KAD/CDC/002	16 Apr. 2015 DST/R/017
KAD/CDI/101	26 May 2015 DST/T/058
KAD/DAC/001/B	9 Nov. 2016 DST/S/050
KAD/DEC/103	25 Nov. 2015 DST/V/074
KAD/DPI/002	6 Feb. 2015 DST/N/067
KAD/DSI/004	16 Feb. 2017 DST/S/105
KAD/DSI/102/B	25 May 2018 DST/Y/009
KAD/DSI/104	16 Feb. 2017 DST/W/091

Product	Issue date reference number
KAD/EBM/101/B	22 Aug. 2016 DST/V/069
KAD/EBM/102/B	7 Dec. 2018 DST/AB/026
KAD/EBM/103	9 Nov. 2016 DST/W/086
KAD/EBM/104	6 Oct. 2016 DST/AB/020
KAD/ENC/106	17 Apr. 2015 DST/S/092
KAD/ENC/111	22 Aug. 2016 DST/W/078
KAD/ETH/101/B	15 Aug. 2016 DST/W/128
KAD/ETH/102	30 Jun. 2017 DST/V/073
KAD/FBM/103/B	31 Jul. 2017 DST/T/085
KAD/IBM/101	23 Mar. 2016 DST/AA/005
KAD/LDC/101	24 Apr. 2018 DST/P/048
KAD/MAT/101	25 Jul. 2016 DST/Y/047
KAD/MBM/101	4 Oct. 2016 DST/X/012
KAD/MBM/102	20 Jan. 2016 DST/X/054
KAD/MDC/103	24 Apr. 2018 DST/S/052
KAD/MEM/004/B	24 Jun. 2019 DST/T/054
KAD/MSB/103/C	25 Jan. 2016 DST/V/006
KAD/PBM/104	30 Sep. 2016 DST/AC/013
KAD/SDI/103	22 May 2015 DST/U/015
KAD/SWI/101	16 Apr. 2015 DST/W/009
KAD/SWI/102	26 May 2015 DST/V/065
KAD/SWI/107	16 Apr. 2015 DST/Y/025
KAD/SWI/108	14 Jun. 2018 DST/Y/045
KAD/TBM/101	15 Apr. 2015 DST/V/027
KAD/TDC/002/D/10M	16 Apr. 2015 DST/T/051
KAD/TDC/102/B	13 Apr. 2018 DST/Y/012
KAD/TDC/107	13 Apr. 2018 DST/V/032
KAD/UAR/002/C	15 Apr. 2015 DST/N/133
KAD/UAR/102/C	1 Feb. 2018 DST/X/084
KAD/UBM/103	22 Mar. 2018 DST/Y/060
KAD/UBM/106	26 Feb. 2020 DST/AF/038
KAD/VDC/001	4 May 2018 DST/N/065
KAD/VID/106/B	4 May 2018 DST/AB/032
KAM/CDC/101	24 Apr. 2018 DST/S/032
KAM/CHS/02F	21 Feb. 2020 DST/X/033
KAM/CHS/03F	21 Feb. 2020 DST/P/062
KAM/CHS/03U/E	21 Feb. 2020 DST/W/042

Product	Issue date reference number
KAM/CHS/04L/B	16 Apr. 2015 DST/N/043
KAM/CHS/05F/SC	16 Apr. 2015 DST/S/004
KAM/CHS/06U/E	21 Feb. 2020 DST/W/052
KAM/CHS/09U/E	21 Feb. 2020 DST/W/057
KAM/CHS/12R/E	12 Jan. 2016 DST/AB/027
KAM/CHS/13U/E	21 Feb. 2020 DST/W/065
KAM/DMY/001	9 Feb. 2015 DST/U/002
KAM/MEM/113	30 May 2019 DST/X/067
KAM/PSU/011/B	16 Apr. 2015 DST/Z/021
KAM/PSU/012/B	12 Nov. 2015 DST/W/043
KAM/PSU/014	16 Apr. 2015 DST/Y/024
KAM/TCG/105	6 Nov. 2018 DST/Z/025
KIT/001	28 May 2019 DST/J/063
LID/001	23 Feb. 2015 DST/J/061
SAM/DEC/008	19 Apr. 2016 DST/Z/010
Ground station products	
Ground station cables	3 Mar. 2015 DST/V/047
GTS/BAY/001	3 Mar. 2015 DST/W/024
GTS/BSC/003/C	4 Apr. 2019 DST/W/134
GTS/BSC/004/C	4 Apr. 2019 DST/W/131
GTS/BSC/005/C	4 Apr. 2019 DST/W/135
GTS/BSC/006/C	4 Apr. 2019 DST/Y/048
GTS/DEC/003/C	4 Apr. 2019 DST/W/132
GTS/DEC/004/C	4 Apr. 2019 DST/W/110
GTS/DEC/005/C	4 Apr. 2019 DST/W/133
GTS/DEC/006/C	4 Apr. 2019 DST/Y/040
GTS/FSC/003/C	4 Apr. 2019 DST/W/136
GTS/FSC/005/C	4 Apr. 2019 DST/W/137
GTS/DPC/005	11 Mar. 2015 DST/Y/005
GTS/IPC/002	24 Apr. 2015 DST/W/014
GTS/LCD/001	27 Mar. 2015 DST/T/026
GTS/MCI/001/C	27 Mar. 2015 DST/Z/009
GTS/NPC/001/G	27 Mar. 2015 DST/V/051
GTS/NPC/003/D	11 Mar. 2015 DST/AA/008
GTS/RCV/001	27 Mar. 2015 DST/T/031
Recorder products	
CompactFlash cards	21 Dec. 2018 DST/Y/032

Product	Issue date reference number
NET/REC/001	28 Feb. 2020 DST/U/039
NET/REC/002	19 Feb. 2020 DST/V/044
Solid State Drives	27 Mar. 2015 DST/Y/033
SSR/CHS/001/C	21 Feb. 2020 DST/AC/036
SSR/REC/001	7 Nov. 2016 DST/W/079
Network switch products	
ACC/KIT/005	20 Mar. 2015 DST/W/034
BAC/MMO/001/F10	23 May 2016 DST/W/116
BAC/MMO/001/F19	20 Mar. 2015 DST/W/117
CON/MMO/001/F10A	20 Mar. 2015 DST/W/113
CON/MMO/001/F19A	20 Mar. 2015 DST/W/114
Network Cables	9 Sep. 2019 DST/W/022
NET/SWI/001	16 Jan. 2018 DST/U/040
NET/SWI/004/D	21 Mar. 2019 DST/Y/014
NET/SWI/006	22 Apr. 2015 DST/V/049
NET/SWI/101/B	19 Feb. 2020 DST/AA/015
NET/SWI/101/C	6 Mar. 2020 DST/AC/004
System integration products	
RFE/AEG/001	3 Mar. 2015 DST/S/033
Avionics products	
OBE/CAM/001	4 Dec. 2019 DST/AB/010
OBE/CAM/002	4 Mar. 2016 DST/AA/011

DAS Studio 3 software known issues

Modules supported in this release

See “Products supported by DAS Studio 3” on page 32.

New features added in this release

For features, see “DAS Studio 3” on page 3.

Known issues in this release

Issue #	Project	Description
AFDX-1	Studio ARINC-NDO Importer	Parameter naming clash reported after a successful ARINC-NDO import of AFDX parameters
AFDX-1	Studio ARINC-NDO Importer	Parameter naming clash reported after a successful ARINC-NDO import of AFDX parameters
ALG-6	Studio Algorithms Tab General	The Error message (x) stays on algorithm tab even after removing the 'trigger condition'
ALG-11	Studio Algorithms Tab General	Only a single window for the values to cause an event is available for the BIT101 or BIT102 in Das Studio meaning you can check an internal range, but cannot check an external range
APP-52	Studio Applications General	Unable to program GTSDEC card in DAS Studio if parameters placed in PCM package
APP-56	Studio Applications General	Unable to load DLL 'gtsdecw.dll': The specified module could not be found. (Exception from HRESULT: 0x8007007E)
ARINC-9	Studio ARINC-429 Builder	When changes are made to the SDI or SSM values, Save and Close button only becomes active after the table has lost focus
CFT-54	Calibration Fetch	Calibration fetcher may show issues when DAS Studio is installed to folders other than the default location
CFT-68	Calibration Fetch	Calibration Fetcher seems to be confused for modules on a slave
CFT-76	Calibration Fetch	Calibration Fetcher - Index was outside the bounds of the array.
DAS-171	DAS Studio General	Google Desktop and DAS Studio running simultaneously may cause a detrimental effect
DAS-318	DAS Studio General	Changing Windows theme while DAS Studio is running may cause DAS studio to become unstable
DAS-396	DAS Studio General	Old Tasks may appear invalid due to changes in xDefML files
DAS-433	DAS Studio General	It is necessary to run DAS Studio as administrator on Windows 7 OS
DAS-472	DAS Studio General	DAS Studio GUI appears to be doing nothing during Program or Verify while Multi-Chassis Scheduler is running
DAS-591	DAS Studio General	Multi Chassis Scheduler does not automatically transfer parameters from a slave chassis to a BIT102 module for event monitoring
DAS-616	DAS Studio General	Palette caches imported files but does not reuse them resulting in poor memory performance
DAS-716	DAS Studio General	GUI allows users to add parameters to Parser aligned iNET-X Packages, resulting in invalid XidML files
DAS-734	DAS Studio General	If the installation path name changes with new versions of DAS Studio, references to lookup files may become invalid in old tasks and require updating
DAS-740	DAS Studio General	Message server displays Compilation Complete after programming hardware

Issue #	Project	Description
DAS-747	DAS Studio General	DAS Studio does not automatically calculate and update the PCM Major Frame Rate
DAS-776	DAS Studio General	Frequency Mode update rate for the DSI102 family modules is not supported
DAS-815	DAS Studio General	Packages Tab allows user to place parameters into Parser Aligned and Bit Stream iNET-X packages. This should not be done as it will corrupt the file
DAS-906	DAS Studio General	Under rare circumstances the vertical scroll bar may disappear on the global parameter list and does not return until you restart DAS Studio
DAS-1019	DAS Studio General	Calibration Fetcher does not discover slave DAU
DAS-1033	DAS Studio General	DAS Studio is stuck in update loop when attempting to add parameters to packet.
DAS-1045	DAS Studio General	SNMP from Windows services must be disable
DAS-1065	DAS Studio General	DAS Studio crashes if a second instance is opened
DAS-1075	DAS Studio General	DSI102 Size in Bits settings of the counter size is missing in DAS Studio: Parameter size for DSI102 family modules Counters is available in 16 bits and 32 bits resolutions. Other bit size can be changed on the parameter list
DAS-1076	DAS Studio General	Switch Port Count parameters from the SWI108 cannot be placed in packages using the Package Generator
DAS-1107	DAS Studio General	DAS Studio may become unstable if "&" is used in a packet name.
DAS-1128	DAS Studio General	Duplicated name causes a problem when loading a file
DAS-1133	DAS Studio General	Delay added to the PCM frame in Ethernet to PCM systems may be large under certain configurations
DAS-1160	DAS Studio General	GUI may jump focus when switching between tabs
DAS-1163	DAS Studio General	When manually defining parameters for parser packages the full list of parameters available is shown
DAS-1164	DAS Studio General	Cannot uses "/" in #define statements for MAT101 Header files
DAS-1167	DAS Studio General	MEM103 Package builder shows blank values for parameter already placed in the MEM103 due to different default base sampling rate
DAS-1169	DAS Studio General	MEM103 can not record the MEM Status register
DAS-1180	DAS Studio General	ARINC-429 builder hangs when closing it from the X in the top right of its window
DAS-1189	DAS Studio General	DAS Studio Packages Tab PCM builder crashes when changing parameters manually
DAS-1191	DAS Studio General	DAS Studio does not warn user if a process is not linked to a package
DAS-1199	DAS Studio General	GUI for the ADC013 Modules Settings allows user to set Range Max to be less than Range Min. the user will not be warned in the GUI, but will receive an error message at compile time
DAS-1204	DAS Studio General	Filtering not Activated by hitting return
DAS-1215	DAS Studio General	Hardware programming time increase
DAS-1221	DAS Studio General	IP addresses are going missing in packages

Issue #	Project	Description
DAS-1241	DAS Studio General	Synchronous connection is assumed for PCM links
DAS-1251	DAS Studio General	Packet-Filter on EBM102 should not use the same IP as other packets in the task. May result in compilation errors
DAS-1262	DAS Studio General	Package Generator does not warn it will delete/modify existing packets
DAS-1283	DAS Studio General	DAS Studio show an error 'The directory is not empty' when the cache directory is open by windows explorer
DAS-1309	DAS Studio General	A configuration can be verified but issues no packets from DAU 3
DAS-1315	DAS Studio General	TCG103 from DAS Studio 3.2 fails to open in DAS Studio 3.4.0 due to changes in the xDefML file
DAS-1353	DAS Studio General	If Scheduling cannot be achieved you may see 'Unexpected late transfer' error
DAS-1360	DAS Studio General	When X_SYNC is enabled on the TCG modules the compiler does not check to see if the acquisition cycle is valid
DAS-1370	DAS Studio General	FBM102 is not a standard FireWire module. Packages and parameters must be added from the Packages tab and not the FireWire builder. A specific FBM102 firewire package can be added from the palette. When using the wizard, users should ignore the FBM102.
DAS-1418	DAS Studio General	To manually place a parameter using 1:1 commutation in the Transmission Assistant you must Drag and drop to the first minor frame
DAS-1419	DAS Studio General	Burst Placement of video parameters may take some time to complete in large PCM frames
DAS-1436	DAS Studio General	DAS Studio may be slow to respond after compilation / Programming, user will not be asked to 'Please wait'
DAS-1439	DAS Studio General	Burst Placement may fail if Smart placement is enabled
DAS-1442	DAS Studio General	Filtering on PCM Parameter grid may still be applied from previous task settings
DAS-1450	DAS Studio General	Smart mode will not use the last word on the PCM
DAS-1459	DAS Studio General	In the PCM Package grid the full Parameter name may not be displayed
DAS-1460	DAS Studio General	Error Message 'Tried to access to an unavailable frame location', when placing 8 parameters at 1:2 using smart mode in frame with enough space to place all commutations
DAS-1462	DAS Studio General	In the Transmission Assistant, when Smart Placement mode is enabled the Parameter place parameters vertically or horizontally setting is ignored
DAS-1464	DAS Studio General	Crash when clicking on PCM frame too often
DAS-1467	DAS Studio General	MAT101 and BCU140D shunt processes do not get saved in XidML
DAS-1476	DAS Studio General	Package Generator should not be an option if PCM is used
DAS-1479	DAS Studio General	Palette with add with connections in PCM will only import the frame shape
DAS-1485	DAS Studio General	Syncword will display an error caused by a refresh issue, 'Syncword must be a multiple of the default word', when updating the syncword
DAS-1486	DAS Studio General	The words per minor frame change automatically without warning
DAS-1498	DAS Studio General	Adding a hex alpha character to an integer field in a generic package setting causes DAS Studio to crash

Issue #	Project	Description
DAS-1518	DAS Studio General	Comments cannot be stored into short and long description
DAS-1536	DAS Studio General	Standalone compiler crash (access denied) on launch when DAS Studio is running on Windows 7 32-bit OS
DAS-1564	DAS Studio General	VID106 or 103 in 2 different packages must have the same sampling rate
DAS-1575	DAS Studio General	Video cannot be transmitted over ETH and over PCM simultaneously
DAS-1583	DAS Studio General	Video burst in MCS for PCM fails compiling
DAS-1585	DAS Studio General	Failure in PCM_WD_SETUP after adding burst video
DAS-1587	DAS Studio General	Crash when del parameter MyARINC-429-WordPackage from global parameter list
DAS-1597	DAS Studio General	Adding IP addresses in the discovery window doesn't always work
DAS-1604	DAS Studio General	Controller file incorrect for the MEM103
DAS-1609	DAS Studio General	Parameter name should not contain dots otherwise they cannot be opened by Matlab
DAS-1610	DAS Studio General	Scheduling Error : Memory package should have less than 16k parameters but KADMEM004B32GMSP has 65792 parameters
DAS-1614	DAS Studio General	When parameters are placed into the PCM, users should not be allowed to change sampling rate
DAS-1615	DAS Studio General	Changing rate on multiple parameters is only possible if the mouse is still on the selected area
DAS-1619	DAS Studio General	Remote chassis cannot be programmed
DAS-1621	DAS Studio General	No decimation on analog modules should create an error
DAS-1632	DAS Studio General	MCS packets should not be created
DAS-1633	DAS Studio General	BIT101 ErrorCounter incrementing
DAS-1635	DAS Studio General	DEC103 is limited to 8Mbits in synchronous mode but DAS Studio compiles successfully
DAS-1638	DAS Studio General	Quite slow to add few parameters into a PCM with some parameters already placed
DAS-1639	DAS Studio General	MCS does not need to transmit the transport package at the same rate as a secondary PCM transmitter package in a slave chassis.
DAS-1642	DAS Studio General	Wrong link appears to be renamed when renaming is done with the 'F2' short cut after renaming with the context menu
DAS-1647	DAS Studio General	Scheduling Error : Failed to generate timing window for ANE2[15:0](0)<<(Parser9:36)[15:0]-s(7+7)/56
DAS-1655	DAS Studio General	Vertical placement should not be an available option in Ethernet packages tab
DAS-1657	DAS Studio General	ENC005B doesn't show the commutation depending on the frame rate used in asynchronous mode
DAS-1664	DAS Studio General	Crash during chassis import
DAS-1665	DAS Studio General	Import ARINC429 doesn't show the bus which we want to import

Issue #	Project	Description
DAS-1666	DAS Studio General	DAS Studio - The value 'OffsetBinary' is not valid - BitVector is the only allowed value
DAS-1667	DAS Studio General	No access for BIT101_SINK is 1 but must be 2
DAS-1699	DAS Studio General	Commutation is not shown in the table
DAS-1702	DAS Studio General	ADC136: changing the signal conditioning type doesn't modify the lookup table
DAS-1719	DAS Studio General	Parameter fragmentation not possible: e.g. ARINC parameter: Start bit: 9, Stop bit: 31, Fragmentation: 11, 12
DAS-1730	DAS Studio General	VID106 packetizer cannot be programmed in a SSR
DAS-1731	DAS Studio General	DSI102 should not compile on the attached setting
DAS-1735	DAS Studio General	Replacing parameter in a discrete will prevent the XidML from being loaded again in DAS Studio
DAS-1738	DAS Studio General	Ethernet to PCM bridge does not work until you save and reopen the file
DAS-1748	DAS Studio General	Recorder Status Tool in DAS Studio does not report errors connecting to recorders
DAS-1771	DAS Studio General	NET/REC/006 and SSR/CHS SNMP variables are programmed correctly but the hardware fails to transmit the correct value back to software.
DAS-1772	DAS Studio General	Default Stream ID of FFFFFFFF is the same value as SSR/CHS/001/B default filter, hence packets with that stream ID will not be transmitted, unless filter is changed.
DAS-1774	DAS Studio General	Documentation link does not work for certain modules
DAS-1782	DAS Studio General	ADC/113/C localization issue
DAS-1792	DAS Studio General	DAS Studio hangs when discovering Ground Station cards if the driver is not installed
DAS-1793	DAS Studio General	If GTS-500 board is fitted into PCI-slot 8 in a PC, once discovered you can't view the file in the Navigator.
DAS-1794	DAS Studio General	Discovery tool should state "no hardware found" on Studio
DAS-1795	DAS Studio General	System.InvalidOperationException when clicking on GS Status
DAS-1796	DAS Studio General	Discovery can return PCI-Slot(11) or other 'invalid' pci-slot.
DAS-1811	DAS Studio General	GTS/BSC/003/C :gStatus should Display "PCM-In(0)" status
DAS-1812	DAS Studio General	BSC/003/C: gStatus should not display "DecomeLock(0)"
DAS-1813	DAS Studio General	Studio allows user to run on gStatus while another gStatus is running but doesn't display any LED definition for the second gStatus.
DAS-1814	DAS Studio General	SSS Status shall reload automatically the previous XidML
DAS-1821	DAS Studio General	Programming cannot be cancelled
DAS-1830	DAS Studio General	DAS Studio crashes while importing a switch to a XidML
DAS-1841	DAS Studio General	Transmission assistant corrupts the PCM frame

Issue #	Project	Description
DAS-1852	DAS Studio General	KAMCSB12U Discovers incorrectly in DAS Studio 3.4.1
DAS-1855	DAS Studio General	After a calibration error occurs during programming from DAS Studio, the message box appears after the end of the operation to inform the user that the system programmed successfully when it did not
DAS-1865	DAS Studio General	IP Programmer reports a false Fail message
DAS-1869	DAS Studio General	10bits parameter causes "tried to access an unavailable frame location" using transmission assistant smart mode
DAS-1870	DAS Studio General	Smart mode doesnot place the 10 bits parameters contiguously as expected
DAS-1872	DAS Studio General	Inter-Chassis Scheduler Information : An item with the same key has already been added.
DAS-1873	DAS Studio General	parameter colour on placed parameter tab and on PCM frame placement are not the same
DAS-1875	DAS Studio General	30 bits syncword doesn't display the SFID anymore - way around change SFID location from 1 to 2 then put back to 1
DAS-1876	DAS Studio General	fixed data cannot be added at the end - way around reload the XidML file
DAS-1878	DAS Studio General	MEM103 occurrence cannot be changed using memorypackage
DAS-1880	DAS Studio General	Bridge balancer adds fields to the XIDML not included in XDEFML
DAS-1890	DAS Studio General	"56ia is not a valid integer value" error message when installing and launching DAS Studio/msgsvr.exe
DAS-1892	DAS Studio General	EBM with 3rd party Ethernet and MCS do not work
DAS-1899	DAS Studio General	Warning : Unable to run acquisition cycle from one of specified rates should be a hint
DAS-1907	DAS Studio General	Cannot create a PCM frame with no SFID - way around use a PCM without SFID in the package palette
DAS-1915	DAS Studio General	FBM001 tags per dataword should be possible
DAS-1916	DAS Studio General	Attempting to elevate any sub-parameter on a 16-bit boundary to a payload parameter without introducing overlaps.
DAS-1917	DAS Studio General	Package import , parameter no longer sourced from user module but from controller
DAS-1921	DAS Studio General	got "Failed to synchronise serial numbers and hardware" but still reported programming success
DAS-1923	DAS Studio General	Parsing MCS and Generic in the EBM is not intuitive
DAS-1924	DAS Studio General	EBM generic package rate is used by mistake to calculate the acquisition cycle rate
DAS-1925	DAS Studio General	discover is quite slow discovering UDP programming BCU slowing down the programming process
DAS-1927	DAS Studio General	Discover takes into account custom xDefML instead of 'standard' xDefML
DAS-1930	DAS Studio General	Routing (xBar setting) should not disappear after selecting filtering 'output port'
DAS-1931	DAS Studio General	ip conflict detector doesn't arp all the IP range

Issue #	Project	Description
DAS-1946	DAS Studio General	Transport type IENA option and packet type IENA in EBM must match otherwise you get a compilation error
DAS-1955	DAS Studio General	changing NETSWI101C xDefML is not reflected in DAS Studio
DAS-1964	DAS Studio General	Modifying offset words from a serial package makes DAS Studio to crash
DAS-1966	DAS Studio General	SDI103 is too confusing
DAS-1967	DAS Studio General	Remove IBM101 parameters from IMB serial builder is not working correctly
DAS-1968	DAS Studio General	EBM104 not coherent on parameter name
DAS-1969	DAS Studio General	Re-importing ARINC-664 is very slow
DAS-1971	DAS Studio General	ALL the EBM104 parameters to be removed from the iNET-X /PCM packets after an import
DAS-1980	DAS Studio General	ABM101 snarfer needs parser information in order to work - parser information also needs to be transmitted
DAS-2010	DAS Studio General	Calibration files are not stored under the C:\ProgramData\ACRA anymore
DAS-2017	DAS Studio General	xidML file get corrupted after importing chassis
DAS-2051	DAS Studio General	Error related to an algorithm that was never created shows up and the project still verifies
DAS-2052	DAS Studio General	DAS Studio reports that a project can not be verified but there are no errors on the message server log
DAS-2057	DAS Studio General	Error compiling doesn't help finding where the issue is ..."Value was either too large or too small for a UInt32"
DAS-2064	DAS Studio General	Datasheet: DAS Studio does not support discrete output setup on KADDAC001
DAS-2079	DAS Studio General	RangeMaximum doesn't follow the Size in Bits in the DS1102
DAS-2085	DAS Studio General	Failed to generate for module KADADC136CE12 - Failure in CycleConfiguration_ADC136 - The given key was not present in the dictionary.
DAS-2104	DAS Studio General	CVSD created by DAS Studio do not match the TEC-NOT-067
DAS-2132	DAS Studio General	Quicklook fails to open, giving error with no detail due to path issue. Quicklook cannot find SAMDEC dll as current working directory has changed
DAS-2140	DAS Studio General	NMEA messages from TCG-102 and TCG-103 should be available for sampling in DAS Studio
DAS-2143	DAS Studio General	Valid UAR parsed data only starts at data word offset 2 onwards
DAS-2152	DAS Studio General	Algorithms used by MEM-113 are not removed and cause errors
DAS-2156	DAS Studio General	Sub parameter transmitted over Ethernet prevents XidML file from opening
DAS-2163	DAS Studio General	Comas localization cause programming error with a NETSWI101C
DAS-2169	DAS Studio General	Attached are some app/tool cases of font not changing when font option is change under options
DAS-2185	DAS Studio General	SWP_SDK_004 is missing in DAS Studio installer

Issue #	Project	Description
DAS-2195	DAS Studio General	Stanag time tag are 48 bits
DAS-2196	DAS Studio General	Bus module Application - word offset should be editable
DAS-2197	DAS Studio General	Screen resolution of 800*600, no slider on the parameters list
DAS-2203	DAS Studio General	Counter hi and counter low is confusing
DAS-2204	DAS Studio General	Last subframe number not displayed
DAS-2208	DAS Studio General	leading 0s for hexadecimal start and stop pattern are removed by serial builder
DAS-2212	DAS Studio General	Error should be thrown if the packet rate is not sufficient according to the time out
DAS-2232	DAS Studio General	For KAMFBM001B and KAMFBM001 the numeric base of the FCS input is not clear
DAS-2245	DAS Studio General	Backplane timing is wrong for the TCG105
DAS-2252	DAS Studio General	SSR connected to a NETSWI causes can't find source of parameter
DAS-2262	DAS Studio General	Failed to create parser parameter P_MyKAD_EBM_102_B_Report : There is no parser slot allocated for the Package MyPlacediNET-XPackage
DAS-2267	DAS Studio General	Removing DAUs keep the algorithms
DAS-2271	DAS Studio General	TDC102 can have different range on different channels while it should not be possible
DAS-2272	DAS Studio General	After running Bridge Balancer, DAS Studio crashes when ADC136 input type is changed
DAS-2290	DAS Studio General	Localization issue causes MBM101 packetizer rate to be at 15040Hz
DAS-2291	DAS Studio General	STANAG-3910 does not retain time tags for datawords over 31
DAS-2294	DAS Studio General	A xidml file with a PCM package does not show up in das studio when modes are enabled
DAS-2295	DAS Studio General	Smart placement fails to place parameters that fit in the PCM frame
DAS-2301	DAS Studio General	DAS Studio for ENC-106 in mode select saves a file with FrameFormatIdentifier overlapping a parameters
DAS-2306	DAS Studio General	UAR102C not parsing correctly with short messages
DAS-2307	DAS Studio General	97012 Warning : Late transfer at tick 1840 with lateness 2. PAR_TS1[15:0](0)<<MPEG2TS[15:0]-s(30+1)/610
DAS-2312	DAS Studio General	Huge offset of about 1000 counts on ADC116 modules due to calibration confusion
DAS-2316	DAS Studio General	Adding a trigger to MEM113 causes a crash
DAS-2317	DAS Studio General	MEM113, KADADC136C do not have an xDefml for the power calculator
DAS-2320	DAS Studio General	SSR parameters cannot be transmitted through MCS for EBM/PCM chassis
DAS-2322	DAS Studio General	FBM001 right click should not allow to call STANAG-3910 Builder

Issue #	Project	Description
DAS-2332	DAS Studio General	Very long save for ethernet builder and PCM frame after editing
DAS-2333	DAS Studio General	Should be aligned with word size but failed when a 48 bits parameter is transmitted over PCM
DAS-2335	DAS Studio General	CBM102 Fill Value should be removed
DAS-2344	DAS Studio General	1553 Builder causes error when parameter is removed and then added again
DAS-2351	DAS Studio General	Package Generator shows up empty when opened from the tools menu for the first time
DAS-2357	DAS Studio General	Counter buses only have parameters for Bus 0 while it should be for Bus(0) and Bus(1)
DAS-2360	DAS Studio General	French language localization causes problem related of calibration fetcher
DAS-2370	DAS Studio General	Inter-Chassis Scheduler Information: Object reference not set to an instance of an object when placing 20 bits fixed data
DAS-2371	DAS Studio General	it takes 5 min less to compile this xidml file using the standalone compiler than to run verify from the DAS Studio GUI
DAS-2389	DAS Studio General	Warning. Default Calibration Data used for module KAM/CDC/101
DAS-2404	DAS Studio General	Failed to generate for module KAD/BCU/140/D - Failure in BCU140_Transmitter - Specified argument was out of the range of valid values
DAS-2408	DAS Studio General	"Hide empty editor tabs" option when enabled, hides the Documentation tab which contains instrumentation name, long description.
DAS-2423	DAS Studio General	VID103 timer doesn't work
DAS-2447	DAS Studio General	Serial Number synchronizer fails on a ETH101 system
DAS-2448	DAS Studio General	Start and Stop Offset in packages viewer for serial module doesn't make sense
DAS-2449	DAS Studio General	Package viewer shows both stop sequence and length has read/write
DAS-2480	DAS Studio General	Adding a number of the same module in the GUI, renaming each, does not get saved in xidml
DAS-2501	DAS Studio General	Windows 10 launch issue. WaitForInputIdle failed. This could be because the process does not have a graphical interface.
DAS-2525	DAS Studio General	Scheduling Error : Object reference not set to an instance of an object: 16 bits parameter truncated to 12 bits coming from slave
DAS-2532	DAS Studio General	Transmission assistant allows placement on the second fragment of a parameter on a word already filled
DAS-2538	DAS Studio General	16 bit event parameter from DSI102B uses the process tab while DSI102 uses the setting tab
DAS-2539	DAS Studio General	MCS is very slow for multiple PCMs in master-slave system even using the standalone compiler
DAS-2552	DAS Studio General	ARINC429 builder the default label format is octal but the "default" is instead associated to the decimal
DAS-2569	DAS Studio General	Object reference not set to an instance of an object. from calibration fetcher
DAS-2571	DAS Studio General	Compiler does not report an error when MCS turned off. BCU resets

Issue #	Project	Description
DAS-2573	DAS Studio General	bitrate settings for ENC-004-B do not work in DAS Studio
DAS-2574	DAS Studio General	end of packet (and destination port) change after verifying for hybrid packets
DAS-2609	DAS Studio General	System.ArgumentException: An item with the same key has already been added.
DAS-2626	DAS Studio General	Failed to set the ethernet trigger should be a warning
DAS-2627	DAS Studio General	Status Dest Mac doesn't update automatically when the Status Dest IP is multicast
DAS-2628	DAS Studio General	Status Dest Mac doesn't update automatically when the Status Dest IP is multicast
DAS-2629	DAS Studio General	Status Stream Identifier is for IENA Key too
DAS-2632	DAS Studio General	A configuration with a DEC003 in asynchronous mode shows spikes
DAS-2633	DAS Studio General	Scheduling Error : Estimated ticks 12447892 needed to schedule 6223946 transfers is too much to fit in 1000000 ticks due to localization issue
DAS-2634	DAS Studio General	takes too long to load - standalone compiler
DAS-2638	DAS Studio General	AXNABM401 Arinc Builder should not compile when label has exceeded 377
DAS-2654	DAS Studio General	DAS Studio support for classic format switching with BCU101
DAS-2693	DAS Studio General	EBM102 process prevents from creating generic parser flow
DAS-2703	DAS Studio General	LoTime sometimes is described as BCD and sometimes as BitVector
DAS-2708	DAS Studio General	Overflow detected on ethernet transmitter with capacity
DAS-2715	DAS Studio General	cannot add frame in EBM if the EBM is connected to the NETSWI
DAS-2723	DAS Studio General	package generator creates an error for MEM103 and parameter over 16 bits
DAS-2759	DAS Studio General	KUP should generate the conduit.ini when a SAMDEC008 is in use
DAS-2803	DAS Studio General	IP address programmer localization issue when assigning IP to a NETSWI101
DAS-2819	DAS Studio General	AXN/TDC/401 when uses built-in temperature sensors for cold junction compensation, will be -2C deg off expected value on thermocouple channels
DAS-2825	DAS Studio General	DAS Studio name scrambler
DAS-2840	DAS Studio General	Some SNMP settings for NETSWI101C fail to be reprogrammed in a system with unconnected hardware
DAS-2846	DAS Studio General	Exception Invalid XidMLFile:14zo2nbd.sge , Inner Exception System.ArgumentNullException: La valeur ne peut pas être null
DAS-2854	DAS Studio General	Message server log is not showing correct SNMP OID Setting
DAS-2878	DAS Studio General	importing UBM-105 or ABM-103 module packages into a file does NOT import Tag Parameters options
DAS-2879	DAS Studio General	transmission assistant : Occurences cannot be <1

Issue #	Project	Description
DAS-2880	DAS Studio General	Scheduling Error : Failed to generate timing window for
DAS-2881	DAS Studio General	Transmission assistant should start on the first available minorframe when vertical placement
DAS-2882	DAS Studio General	Create fixed data by right clicking on BCU/140 create fixed data with value different in PCM than in BCU
DAS-2886	DAS Studio General	DSI: changing counter type should change the range automatically
DAS-2888	DAS Studio General	Programming with "Synchronize serial numbers and fetch calibration " enabled takes too long
DAS-2899	DAS Studio General	Parameter names are not saved properly for AXON
DAS-2909	DAS Studio General	importing 1553 message requires the parameter section
DAS-2913	DAS Studio General	Serial Number Synchronizer should not write into the xidML file
DAS-2921	DAS Studio General	Transmission assistant should not allow placement if overlaps
DAS-2922	DAS Studio General	Programming a SSRCHS001 hang sometimes while programming SNMPs
DAS-2939	DAS Studio General	Loss of focus on PCM map
DAS-2944	DAS Studio General	importing CAN bus make the xidML file not valid against the schema
DAS-2946	DAS Studio General	slow to import
DAS-2959	DAS Studio General	Modes in MIL-STD-1553 package references on Links
DAS-2962	DAS Studio General	Inter-Chassis Scheduler Information : The link:Switch-Port(2)-Switch-Port(2) has more than 2 instruments connected:KAD_SWI_108_1 ,KAD_SWI_108_0
DAS-2963	DAS Studio General	Inter-Chassis Scheduler Information : An item with the same key has already been added
DAS-2976	DAS Studio General	ETH101 doesn't output packet is the user transmit the ETH101 Report parameter
DAS-2989	DAS Studio General	1553 builder should limit word index according to the number of world
DAS-2991	DAS Studio General	strategy file for parameter higher than 16 bits is incorrect according to KFLASHAPIXID 1.9 datasheet
DAS-2995	DAS Studio General	97017 09/05/2019 14:16:52.4255: Inter-Chassis Scheduler Information : Object reference not set to an instance of an object.
DAS-3009	DAS Studio General	Can't find source for parameter when NETREC is connected on a link
DAS-3010	DAS Studio General	should have not compiled due to the minimum transmit time
DAS-3017	DAS Studio General	Sync vs Async and Live vs Mass Memory Sequencing Incorrect Entries
DAS-3018	DAS Studio General	Adding parameters to existing XidML file can lead to missing source errors
DAS-3019	DAS Studio General	Parameters with missing source in packages error not indicated in bottom right corner of GUI
DAS-3029	DAS Studio General	Gain and Offset does not work across formats

Issue #	Project	Description
DAS-3034	DAS Studio General	power calculator doesn't show any result
DAS-3045	DAS Studio General	cannot discover when chassis ID is 1
DAS-3073	DAS Studio General	BCU140D time registers hi time, lo time and micro time disappear and become ghost parameters
DAS-3077	DAS Studio General	takes 20 min to run MCS knowing that there's no packetizer nor multichassis
DAS-3084	DAS Studio General	MCS modifies the sub-parameters into a parameter
DAS-3085	DAS Studio General	MIL-STD-1553 Builder "item with the same key" error when messages added and edited one by one
DAS-3093	DAS Studio General	Failed to generate for module AXN/ADC/401 - Failure in Cycle_Configuration_V1 - The given key was not present in the dictionary
DAS-3105	DAS Studio General	XIDML file with ghost parameters without any instrument or source generated after splitting registers
DAS-3107	DAS Studio General	DAS Studio hangs when multiple parameters with a size inferior to 16 bits are added into an ethernet packet
DAS-3108	DAS Studio General	DAS Studio overlaps the parameters when a size superior to 16 bits are added into an ethernet packet
DAS-3110	DAS Studio General	AXNADC401 MIN-MAX is not saved properly in the xidML file
DAS-3116	DAS Studio General	Importing an ADC from another task causes MIN/MAX error
DAS-3118	DAS Studio General	Placing Tag parameter from DSI/002 in two sinks causes Scheduling Error : Reading without FIFO pop parameter is not allowed - parameters MyTagTimeLo,MyTagTimeLo,
DAS-3121	DAS Studio General	Programming doesn't work if an axonite is connected
DAS-3136	DAS Studio General	Display issues when using packetizer with audio on VID106B when decommutated with VLC software only - A workaround is to turn off the MCS and increase the rate of the packetizer packet.
DAS-3143	DAS Studio General	Instruments with the same name causes a loading xidml file error which is not clear: System.ArgumentException: An item with the same key has already been added.
DAS-3148	DAS Studio General	BCU101 mixed with BCU105 should not compiled
DAS-3154	DAS Studio General	Could not establish or maintain reliable connection with the hardware at IP-address
DAS-3155	DAS Studio General	TFTP Programming completed with warnings while it seems to have failed to program some chassis
DAS-3157	DAS Studio General	BCU is resetting depending on the configuration used
DAS-3159	DAS Studio General	Cannot program IP address on SSR/CHS/001/C or /D
DAS-3160	DAS Studio General	cannot add ARINC and ADC to the MEM103B at different rate
DAS-3167	DAS Studio General	should place all possible parameters if an error occurs
DAS-3168	DAS Studio General	Warning : Late transfer at tick
DAS-3173	DAS Studio General	import Style B Arinc doesn't work

Issue #	Project	Description
DAS-3182	DAS Studio General	MEM103B syncword should be EB98 7D91 however it shows an incorrect value
DAS-3189	DAS Studio General	AXN ABM 401 parameter names are different depending on the controller in the chassis
DAS-3192	DAS Studio General	Duplicated packetizer should not be allowed - compiler should create an error
DAS-3207	DAS Studio General	Transmission assistant usability
DAS-3214	DAS Studio General	crash when add with connections a PCM
DAS-3228	DAS Studio General	ARI002 fill data not configurable
DAS-3260	DAS Studio General	Arinc labels are invalid but still the xidml file verifies successfully
DAS-3264	DAS Studio General	Video and accelerometers show spikes
DAS-3275	DAS Studio General	sample rate 40 on instrument ADC_136_C_0109 is not a power of 2 compared to the other parameter sample rates on the instrument is incorrect if parameters from different streams are transmitted
DAS-3286	DAS Studio General	Datasheet should mention that the GTS boards these boards are only supported under Windows 7 32/64 bit.
DAS-3288	DAS Studio General	Transmission assistant: You cannot unset a rate
DAS-3289	DAS Studio General	Transmission assistant: if parameter gets "cannot place", even though you have room, you will never be able to place it
DAS-3296	DAS Studio General	cannot program existing chassis
DAS-3297	DAS Studio General	Attempt to add cause overlap in Frame when using package generator on the MEM003
DAS-3298	DAS Studio General	ENC005B with right justification fails to verify
DAS-3304	DAS Studio General	.NET4.8SDK prevent DAS Studio from running
DAS-3305	DAS Studio General	iNET-X placed is limited to 712 words while it should 722
DAS-3306	DAS Studio General	Discrete parameter cannot be placed if the parameter uses in the discrete is already place in the PCM
DAS-3307	DAS Studio General	Discrete extraction 3 parameters of 16 bits from a 48 bits fails
DAS-3319	DAS Studio General	Empty serial number does not produce a warning or an error in DAS studio
DAS-3323	DAS Studio General	EBM Generic Package Import Parameter Offset Words change
DAS-3328	DAS Studio General	MEMx03 recording ABM103 parameter have word swapped
DAS-3341	DAS Studio General	fixed data parameter name are not recorded on the MEM
DAS-3343	DAS Studio General	Read counter parameter is missing when AXNBCU401 is discovered
DAS-3344	DAS Studio General	Discovered Module 0x593 in slot number J7 in chassis 10.143.9.30 does not exist in cache. Module will not be programmed
DAS-3349	DAS Studio General	AXNBCU401 with IENA pkt fails to verify

Issue #	Project	Description
DAS-3350	DAS Studio General	Removing an ENC401 from the chassis causes DAS studio to crash
DAS-3357	DAS Studio General	SBM001 does not show correct values when datawords are not picked contiguously
DAS-3361	DAS Studio General	Parameter name consisting only of spaces breaks XidML file
FAL-5	Falcon (EEPROM Generator)	Installing DAS Studio to locations other than the default install path may result in compilation issues
FAL-70	Falcon (EEPROM Generator)	Compiler sometimes has problems removing old cache directory on Windows 7 32-bit OS
FAL-100	Falcon (EEPROM Generator)	There are small differences in EEPROM images generated for KADADC008 module dependent upon whether Win XP or Win 7 64-bit is the underlying OS
FAL-159	Falcon (EEPROM Generator)	There is no tool in DAS Studio for setting the IP address on a BCU105 family module
FAL-330	Falcon (EEPROM Generator)	Sample rate of Ethernet PCM Bridge parameters are driven by Ethernet not PCM when sub parameters are placed in PCM
FAL-331	Falcon (EEPROM Generator)	No output from ADC-136 when erasing MEM-113 in format 8 or idle in format 4
FOP-41	Studio File Operations	Invalid XidML data is not flagged in DAS Studio.
FOP-62	Studio File Operations	Error message for dynamic constraint generation does not specify the setting / channel / instrument the error is on
GSI-6	Studio Global Status Indicator	Status bar colour does not reflect programming errors
HDF-80	hDefML File	MEM004B needs to put literal values to formats other than 0
MCS-1	Multi Chassis Scheduler	Users will see an error when compiling or programming a task if they have manually built a slave PCM frame.
MCS-13	Multi Chassis Scheduler	Having two PCM packages with same rate and size on one PCM link results in unclear error message
MCS-136	Multi Chassis Scheduler	Having multiple PCM package in a task while Packetization enabled on single ENC106 channel cause an error
MCS-201	Multi Chassis Scheduler	Packetizer for ABM103 Schedules same number of packets per second regardless of the Bus speed setting
MCS-209	Multi Chassis Scheduler	Error '...not present in dictionary' after replace of slave PCM on detection of previous package
MIL-5	Studio MIL-STD-1553 Builder	More data word parameters can be added than defined in the message Parsing Rules
MSI-66	Studio Installer	Installing DAS Studio 3.1 after installing KSM500 1.14 causes startup problems for kSetup 1.14 because some of the KSM500 1.14 folder locations have been altered
MSI-109	Studio Installer	DAS Studio installer may cause anti-virus software to issue a warning
MSI-149	Studio Installer	DAS Studio installer may remove components that affect KSM-500 and kFlashCard when uninstalling
MSI-167	Studio Installer	'UnauthorizedAccessException' error on Windows XP when tried to run DAS Studio as limited user, although it was installed as admin user
MSI-190	Studio Installer	User may see an Error message when installing if user doesn't have Admin rights

Issue #	Project	Description
MSI-254	Studio Installer	Uninstalling DAS Studio deletes the calibration information gathered by Calibration Fetcher
MSI-283	Studio Installer	.NET 4.0 Framework will not install if the Windows Imaging Component is not already installed
MSI-299	Studio Installer	SAM-DEC-008 install process by DAS Studio should contain all necessary files
MSI-316	Studio Installer	SWP-SDK-004 (SAMDEC008 driver) missing from the installation
MSI-323	Studio Installer	missing path for asdx32w.dll in windows environment
NAV-126	Studio Navigator	GTSDEC005C allows more than one package to be added to the link in DAS studio
PB-48	Studio Package Builder	Package builder displays 'Package generation complete' even if no packages are created
PB-57	Studio Package Builder	Using an illegal bit rate in the PCM package generator may cause it to hang, the Transmission Assistant should be used instead
PB-71	Studio Package Builder	Encountering Errors in PCM package generator may result in an empty PCM frame. Transmission Assistant should be used instead
PB-72	Studio Package Builder	Package Builder should not alter an existing PCM frame that already works
PB-74	Studio Package Builder	Package builder does not remember if you locked a parameter to a PCM location
PB-79	Studio Package Builder	Package Generator does not place parameters from KADSWI108
PB-94	Studio Package Builder	Package builder error specified argument was out of range of valid values while there's no issues if you use the package tab
PB-98	Studio Package Builder	DAS Studio PCM frame loses focus when zooming in
PKG-54	Studio Packages Tab General	Navigating between modules when Packages tab is in context can result in slow performance of DAS Studio
PKG-364	Studio Packages Tab General	Mouse 'Wait' icon is not always displayed when waiting for DAS Studio to complete a task
PKG-436	Studio Packages Tab General	The IRIG-106 packages tab does not let you define everything that you might want for an IRIG-106 package definition such as FCC, URC..
PKG-439	Studio Packages Tab General	DAS Studio does not prevent user from creating a slave PCM packages, these are automatically created at compile time
PKG-450	Studio Packages Tab General	Clicking on the XidML file root and then clicking between tabs may be slow
PKG-472	Studio Packages Tab General	DAS Studio does not automatically update certain fields when manually creating Ethernet packets e.g. Stream ID may be repeated
PKG-497	Studio Packages Tab General	Packages tab does not always show Package Grid when opened the first time
PKG-501	Studio Packages Tab General	For MIL-STD-1553 Mode code 17 messages, the sub-sub address map is not supported on MIL-STD-1553 messages
PKG-503	Studio Packages Tab General	User cannot set occurrences for ARINC ARI002 package via grid, but can set the occurrences under preferences
PKG-520	Studio Packages Tab General	Packages tab is not refreshed when deleting a module

Issue #	Project	Description
PKG-580	Studio Packages Tab General	Users may experience poor Memory performance when switching between tabs multiple times
PKG-594	Studio Packages Tab General	UDP Destination Port defaults to 0 for iNET-X Placed packets
PKG-598	Studio Packages Tab General	Refresh issue when Delete process package filter for EBM, have to save and re-open the task file
PKG-603	Studio Packages Tab General	Package Rate for Packetizer Packets can be set but has no impact as it is overwritten on Verify
PKG-669	Studio Packages Tab General	Placement Preferences not displayed as selected
PKG-692	Studio Packages Tab General	Transmission assistance does not update when fragmentation error is caused by the placed content grid
PKG-702	Studio Packages Tab General	Changing burst parameter properties in the Placed Data grid replaces the burst parameter with a single instance
PKG-703	Studio Packages Tab General	Burst parameter occurrences not displayed correctly in the Placed Data grid
PKG-729	Studio Packages Tab General	BCU101C Syncword not updating correctly
PKG-742	Studio Packages Tab General	clicks off the selected parameter before to place it
PKG-743	Studio Packages Tab General	It takes 5 seconds to refresh PCM frame for every placement
PKG-745	Studio Packages Tab General	clicking the DEL key on the keyboard remove the parameter from the list
PKG-749	Studio Packages Tab General	ghost discrete parameter appears in XIDML file when saving without source parameters
RIB-3	Studio Ribbon Bar	If you are editing a table cell and then select a menu option, i.e. Save, the changes in the cell will be lost.
SAC-4	Standalone Compiler	Das Studio Program - XidML file is compiled whether it has output or not - No warnings or errors
SAC-12	Standalone Compiler	SaveSerialNumberChanges doesn't work
SAC-14	Standalone Compiler	Das Studio - exceeded digital gain error is unclear
SAC-70	Standalone Compiler	Disable Serial Number synchronizer options on UI as it is not supported
SAC-76	Standalone Compiler	SaveSerialNumb command line doesn't work
SCS-126	Single Chassis Scheduler	The folder used for storing compiler debug files is not cleared out at start of compilation
SCS-379	Single Chassis Scheduler	32 bit registers are presented correctly in BCU140B packets but are reversed in MBI103B messages
SCS-388	Single Chassis Scheduler	Overrun detected error with more than 3.3M Ethernet transfers
SCS-477	Single Chassis Scheduler	On the BIT101 Users can create a Trigger Condition and not assign a parameter to it. They will not be warned until compile time
SCS-487	Single Chassis Scheduler	Compiler error with synchronous DEC103 - Failed to generate timing window for DECData

Issue #	Project	Description
SET-47	Studio Settings Tab General	DAS Studio GUI does not detect and warn users if two Packetizer channels use the same Stream ID. Error is shown at compile time
SET-51	Studio Settings Tab General	Updating TDC002D parameter 'Range Min/Max' is not done automatically by UI dependent on the look up file selected
SET-53	Studio Settings Tab General	Updating ADC113B 'Range Min/Max' and 'Excitation amplitude' is not done automatically by UI dependent on the algorithm reference selected
SET-121	Studio Settings Tab General	Bitrate does not automatically update when choosing PCM frame shape unless using PCM Package Builder then rate is automatically updated.
SET-153	Studio Settings Tab General	KADADC135 and KADADC136 Changing Excitation Mode from Voltage to Current, or vice versa, does not automatically update the amplitude to a valid figure for that setting
SIP-78	Studio Instruments Palette	User can delete the ACRA "New ACRA Component" library in DAS Studio 3.4.5
SIP-79	Studio Instruments Palette	Long delay opening the instrument palette and other operations in DAS Studio for the first time
SKD-14	Studio Hardware Discovery	Discovery tools ask for irrelevant Gateway Input range when discovery Ground Station Modules
SKD-16	Studio Hardware Discovery	'IP Address' range validation is not applied on discovery gateway definition
SKD-19	Studio Hardware Discovery	Discovery tool discovers SSR/CHS/001 as KSM-500 chassis as well as SSR/CHS/001
SKD-20	Studio Hardware Discovery	Discovery tool does not state 'no hardware found' when Discovery fails, just reports Discovery complete
SKD-36	Studio Hardware Discovery	DAS Studio Hardware Discovery tool does not automatically open new XidML file when discovery is complete
SKD-82	Studio Hardware Discovery	Cannot save file and error is issued when the IP of a switch is added to discovery
SKD-87	Studio Hardware Discovery	Discovery will always return a AXNCHS16U no matter what the chassis size when using AXNBCU401
SKD-100	Studio Hardware Discovery	Discover returns an exception when discovering through SWI/101/C to Axon
SKD-112	Studio Hardware Discovery	Discover AXN/ABM/401 - Exception Invalid XidMLFile:skilfpyu.xkq , Inner Exception System.ArgumentNullException: Value cannot be null. Parameter name: source
SKD-114	Studio Hardware Discovery	Discovery not fully working with AXON modules - 'Input string was not in a correct format.'
SKD-116	Studio Hardware Discovery	Discovery throws exception after creating XIDML file
SKD-119	Studio Hardware Discovery	Systems programmed with 3.4.10 cannot be discovered with 3.4.11 using a AXNBCU401
SKD-122	Studio Hardware Discovery	DAS Studio discovers the AXNTDC401 with configuration errors
SKD-129	Studio Hardware Discovery	DAS studio does not report an error when discovering 2 Axon chassis with the same IP address
SMS-12	Studio Message Server	Localisation Issue:Exception from HRESULT
SPC-77	Studio Power Calculator	Power Calculator artificially splits 7V and 12V into equal positive and negative voltage rails which does not correspond to hardware capabilities

Issue #	Project	Description
SPG-10	Studio Package Grid	iNET-X placed package grid displays word location incorrectly
SPG-23	Studio Package Grid	PCM package display grid may require a refresh after Verification or Programming
SPG-25	Studio Package Grid	DAS Studio allows Users to add Parameters to Bus Monitor Packages that are already full, but does not report any warning
SPG-26	Studio Package Grid	DAS Studio Packages display may require a refresh after adding parameters
SPLT-3	Studio Package Links Table	PackageRate on PCM links is not automatically updated when the bit rate is changed
SPPT-10	Studio Package Properties Table	DAS Studio fails to auto-validate 'data type' for iNet-X packages
SPPT-33	Studio Package Properties Table	Illegal Stream ID settings may only be caught at compile time
SPRP-34	Studio Parameters Palette	Default Parameters list may be shown when adding parameter to a package, instead of the parameters associated with the task. Click on 'This file' to get the correct parameter list
SPT-5	Studio Packages Table	Need a limitation on the maximum number of parameters/words that can be placed into different types of package
SPT-9	Studio Packages Table	In some scenarios, validation of parameter name uniqueness may not work as expected
SPT-14	Studio Packages Table	Overlap error when adding parameters from table
SPT-81	Studio Packages Table	Invalid placement location indication for all parameters when packet size is more than maximum iNET-X size
SQL-21	Studio Quicklook	Quicklook reports error on derived parameter P_KAD.....Analog(0)_Analog(0)
SQL-27	Studio Quicklook	Enable support for 16 bit IADS Data files option in wizard truncates 32 bits parameter in LSB 16 bits
SQL-28	Studio Quicklook	kQuicklook will report an error when uninstalling after DAS Studio 3.4.1 was installed or uninstalled
SQL-33	Studio Quicklook	PCAP and CF data sources have to be removed from Quicklook support and from datasheet
STV-4	Studio Verify	When compilation is cancelled it will finish the current chassis before cancellation is completed
STV-6	Studio Verify	DAS Studio does not automatically save changes to the XidML file. User must click save to ensure no changes are lost
STV-10	Studio Verify	Using Auxiliary files is not supported in DAS Studio
SUAR-24	Studio Serial Builder	UBM-103 does not support idle time - Some parsing options on Serial Builder for UBM-103 are incorrect
SUM-13	Studio User Manual	User Manual: Creating a PCM discrete parameter needs clarifications
SUM-21	Studio User Manual	Axon Discovery should mention that it also retrieves the xidML stored on the Axon controller
TLS-31	Studio Tools General	DAS Studio does not manage Sensors and input channels calibration
TLS-80	Studio Tools General	The given key was not present in the dictionary
TTPI-5	TTP Importer	Cancelling TTP importer while removing links may cause DAS Studio to become unstable

Issue #	Project	Description
TXC-3	TX-CONSOLE	Tried to access to an unavailable frame location
XACS-13	XidML API	Mode code 17 sub sub address map not supported on MIL-STD-1553 messages
XACS-18	XidML API	Adding 1553 message with " " in the message name creates invalid XidML
XACS-32	XidML API	ConditionalSettingValue /Name are interchanged. xName should be "Counter Type" and xValue should be Period as it was before.
XDF-36	xDefML File	Analog-IRIG_BOut is defined under Inputs on a KAMTCG102C
XDF-135	xDefML File	RS422_OUT can act as either X-sync out or IRIG-Out on all TCG Modules. However, the Outputs only ever show RS422_Out, this stops users connecting IRIG_Out to IRIG_in on other modules in the GUI
XDF-144	xDefML File	KADADC129S1 ExcitationAmplitude default value is 0.2 on the datasheet and 5 in DAS Studio
XDF-146	xDefML File	KADADC109CS1 ExcitationAmplitude default value is 0.2 on the datasheet and 5 in DAS Studio
XDF-147	xDefML File	'BalanceTolerance' and 'Balance Target' ranges are not defined in datasheets of Analog Modules
XDF-200	xDefML File	Cannot connect IRIG-B_out from TCG102C to NETSWI004 digital IRIG-B_In
XDF-327	xDefML File	DAS Studio UI will allow BitRates lower than what is achievable in the hardware on BCU101 modules
XDF-328	xDefML File	SSRCHS001B DAS Studio Setting Memory Utilization Threshold default value should be 0
XDF-339	xDefML File	Not all KAMTCG102 possible settings are supported in the DAS Studio UI
XDF-343	xDefML File	Not all Ethernet devices use the same default IP addresses
XDF-348	xDefML File	Frequency Mode Reference Period is not published for DSI/102 ,DSI/102/B and DSI/104
XDF-394	xDefML File	DAS Studio allows the user to define the Max/Min temperatures per channel, needs to be the same for all channels

Issues fixed in this release

Issue #	Project	Description
BLNC-142	Bridge Balancer	Parameters from MCS packets are listed in Bridge Balancer
DAS-869	DAS Studio General	Variant support for bus monitor such as 1553 or Stanag in DAS Studio
DAS-1684	DAS Studio General	Variant support in DAS Studio
DAS-2124	DAS Studio General	DSI003B missing 12 bits discrettes
DAS-2283	DAS Studio General	Not possible to add new sampling rates to a MEM-00x using package generator
DAS-2330	DAS Studio General	Synchronize serial numbers and fetch calibration, has been turned off by default
DAS-2366	DAS Studio General	Programming get stuck at KUP KUP Heartbeat Called
DAS-2388	DAS Studio General	Programming with "Synchronize serial numbers and fetch calibration " enabled and some hardware missing takes 30 minutes and the system is not programmed
DAS-2469	DAS Studio General	KAMSBM101 - no builders available in DAS Studio
DAS-2510	DAS Studio General	Scheduling Error : Failed to generate timing window for ...Windows are SourcePCMDecoder

Issue #	Project	Description
DAS-2521	DAS Studio General	Serial Number Synchronizer crashes with Axon with missing serial number
DAS-2527	DAS Studio General	Programming a system with KAM-500s containing a SSR not physically connected/powerd up is very slow
DAS-2641	DAS Studio General	Auto-Detect IP Address doesn't detect a BCU140D
DAS-2643	DAS Studio General	Only single transfer shift packet allowed but INETX_5hz,INETX_10hz, needd to be shifted
DAS-2676	DAS Studio General	Only single transfer shift packet allowed
DAS-2820	DAS Studio General	words are swapped when using a 32 bits parameter in CBM107
DAS-2839	DAS Studio General	Programming a project with not physically connected hardware gets stuck showing the following message: Error - Programming is being cancelled. If an instrument is currently being programmed, its programming will be finished first. Please wait...
DAS-2841	DAS Studio General	A legacy master/slave system cannot schedule inter-chassis parameters and issues an error: Inter-Chassis Scheduler Information : Occurrences='256' is an invalid commutation
DAS-3015	DAS Studio General	Warning : Programming Warning but it was errors !!!
DAS-3053	DAS Studio General	KAD/MSB/103/C Snarfer 32 bit parameter Incorrect Endianess
DAS-3076	DAS Studio General	takes more than 1 hour to open this xidML file
DAS-3078	DAS Studio General	Scheduling Error : Some jobs are still in the blocked queue
DAS-3082	DAS Studio General	UDP port on Packetizer packets can not be edited
DAS-3100	DAS Studio General	Variant support in DAS Studio for AXON bus monitors
DAS-3149	DAS Studio General	AXNADC401 fails to compile - Failure in FIR_coefficients_V1 - Could not find a part of the path 'C:\ACRA\DAS...\kProgram\LookupFiles\FilterCoefficients\FIR15_DAAF_ADC401.xml'.
DAS-3161	DAS Studio General	transmission assistant : parameters symbol is for parameter ready to be placed while they have no rate/commutation set
DAS-3165	DAS Studio General	takes over 1 minute to unplace 50 parameters
DAS-3197	DAS Studio General	delete multiple parameters with different size in bits makes it crash
DAS-3211	DAS Studio General	AXNBCU402 - Transport packets being transmitted by source and eth to pcm bridge bcu
DAS-3212	DAS Studio General	Wrong intermediate ID's are picked for RT_RT message if a common BC_RT message is also defined and wild cards used in one message, affects KAD/MBM's and AXN/MBM's
DAS-3218	DAS Studio General	TCG105 Module jumps back of 1 second when it gets leap seconds
DAS-3243	DAS Studio General	Axon is outputting bad data
DAS-3247	DAS Studio General	Renaming variant messages crash
DAS-3281	DAS Studio General	Latency issue - Packet is transmitted later
DAS-3332	DAS Studio General	System.ArgumentOutOfRangeException: Occurrences='64' is an invalid commutation
MIL-29	Studio MIL-STD-1553 Builder	First Message not saved by builder on first save
PKG-755	Studio Packages Tab General	Transmission assistant cannot place multiples 24 bits parameter when smart mode is enabled
PKG-756	Studio Packages Tab General	Placing 12 bits parameter on 12 bits parameters don't place the parameters concurrently on the PCM when smart mode is enabled
PKG-757	Studio Packages Tab General	Placing multiple 16 bits parameter on a 12 bits PCM generates an error when using smart mode
SKD-74	Studio Hardware Discovery	Discover does not detect IP address of NETREC002

Issue #	Project	Description
SUM-22	Studio User Manual	Explanation for programming link when master/slave is used in conjunction with an ETH10x

GSX-500 software known issues

GS Works 9

Modules supported in this release

See GS Works 9 data sheet for list.

Features in this release

See GS Works 9 data sheet.

Known issues in this release

Issue #	Project	Description
GSW-338	GS Works	Additional setup is required in order to use TTC data sources. Please contact TTC support or Symvionics for more information.
GSW-337	GS Works	Decom from CF device is not supported on 64-bit OS. CF decom can only be ran using GS Works 32-bit.
GSW-336	GS Works	GS Works remains stuck at "Launching CDS." for certain task file containing multiple chassis and NETREC. It never opens.
GSW-334	GS Works	Display window stalls for a few seconds about 10 seconds after opening GS Works
GSW-332	GS Works	In a system with two chassis, GS Works stops displaying data from one after a restart
GSW-321	GS Works	irigtime48 is displayed incorrectly. It displays as micro/lo/hi instead of hi/lo/micro.
GSW-308	GS Works	Jumpy video with VID106 in replay in Packetizer packet in DAS studio
GSW-305	GS Works	12-bit Video (VID103 & VID106B) is not supported
GSW-301	GS Works	PCM loss of lock when only 16 bit is transmitted from a 32 bit source parameter
GSW-295	GS Works	Derive parameter with name such as P_MyKAD_ADC_135_B_Analog(0)_Analog(0) does not work. Parameter name must be edited from P_MyKAD_ADC_135_B_Analog(0)_Analog(0) to P_MyKAD_ADC_135_B_Analog(0) in order to work in a derived parameter.
GSW-288	GS Works	No audio in playback for VID106
GSW-287	GS Works	12bit video VID103 does not display test screen when programmed with KSM over PCM
GSW-286	GS Works	VID106 in DAS Studio does not work in burst mode when transmitted over PCM. Only black screen is visible
GSW-269	GS Works	GS Works crashes if 100+ data streams are defined (Work around is to use combine packets on the ABM103)
GSW-261	GS Works	GS Works Packetizer bus module functions - ladsBusMessageHelpers are now deprecated. New Syntax applies.
GSW-257	GS Works	IENA key and INET-X Stream ID 0xFFFF are reserved in GS Works
GSW-242	GS Works	SetFilterActive function does not work
GSW-232	GS Works	Slow to start when lots of different destination multi-cast address. Way around use as much as possible common destination IP address.

Issue #	Project	Description
GSW-198	GS Works	New desktop is not saved to pconfig when using different directories for data and config file
GSW-128	GS Works	GS Works can not handle the same parameter being placed in different packets
GSW-105	GS Works	GS Works does not take isochronous sampling for time alignment. Observed in KSM-500 IENA. As a result the same sine wave on 2 ADCs in different chassis is not aligned as expected
GSW-48	GS Works	GS Works does not support XidML prior to version 2.41.
GSW-29	GS Works	URC is not supported as Synchronisation Pattern (PCM only)
GSW-28	GS Works	FCC is not supported (PCM only)
GSW-27	GS Works	FAC is not supported (PCM only)
GSW-26	GS Works	Time parameters are not available in the Parameter tool in GS Works when getting data from a MEM/003
GSW-23	GS Works	GS Works does not support mixed word lengths for the SAMDEC007 PCM data source.
GSW-22	GS Works	GS Works does not support parity for a SAMDEC007 PCM data source. 12-bit odd parity does not achieve lock.
GSW-16	GS Works	DCLKPhase setting in XidML file is not acted on in the setup for the GTS/DEC/00x card.
GSW-13	GS Works	Some additional GTS/DEC/00x settings are not being displayed
GSW-4	GS Works	No lock with Odd Parity (PCM only)
GSW-2	GS Works	Data Source Startup error: error setting SAMDEC sync mask for pattern... using 33 bit Syncword (PCM only)

Fixed issues in this release

Issue #	Project	Description
GSW-331	GS Works	Tue Jul 02 10:12:51 2019 [Warning] : Error decoming Acra Ethernet packet, id = 0xffff. Expected 8 words but found 65535 in header instead.
GSW-324	GS Works	There is a delay of greater than 1 second before a parameter is displayed.
GSW-319	GS Works	SerialText for UBM packetizer is not working - way around use Decom
GSW-318	GS Works	GS Works - formula does not work with blank space on parameter name
GSW-316	GS Works	refresh value with GetData and GetInputValue from the IADSCombobox
GSW-313	GS Works	Need support for 10bit and 12bit PCM in SAMDEC with DAS Studio
GSW-311	GS Works	Remove "ACRA Compact Flash" data source option from the start wizard of GS Works 64 bits version
GSW-310	GS Works	The installation structure from the start up menu is not the same on Win 10 as on Win 7
GSW-309	GS Works	Decom from CF device is not supported on 64bit OS - kflashex.dll failed. Must use GS Works 32bit.
GSW-307	GS Works	Video (VID106) does not play from paused position
GSW-306	GS Works	Two videos in the same chassis (VID103 or VID106) programmed with DAS Studio results in a black screen.
GSW-296	GS Works	Slow packets in the system may cause latency to become visible and show discrepancy between real-time and GS Works dashboard time. Workaround is to use faster packets

Issue #	Project	Description
GSW-231	GS Works	Reading large PCAP files in GS Works - speed improvement
GSW-196	GS Works	Event Messages from recorder event packets are not supported
GSW-179	GS Works	Some Event messages from recorder event packets are missing from GS Works

GTS SDK 2.1

Modules supported in this release

See GTS SDK 2.1 data sheet for list.

New features in this release

See GTS SDK 2.1 data sheet.

Known issues in this release

Issue #	Description
GDSDK-1	Device manager recognizes GTSDEC as "Jungo" device not as "ACRA" device.
GDSDK-3	System Definition API parameter "IMinorFrameWords.RemoveWord (indexToRemove)" should be renamed.
GDSDK-14	Ground Station API should allow setting of the "Name" on FrameWords in a PCM Package.
GDSDK-15	System Definition API does not support setting up a Major Frame.
GDSDK-20	GTS/DEC card driver failed to run on Windows 7.
GDSDK-32	No XidML 3.0 entry for SyncWord Inverted
GDSDK-36	SDK Installer always installs "MicrosoftWindowsInstaller 3.1" regardless of whether or not it was already installed.
GDSDK-49	SDK does not install .Net 4.0 automatically.
GDSDK-72	When uninstalling the SDK the .NET framework is installed again before an option is given to remove the SDK.

Issues fixed in this release

N/A

GTS SDK 3.3

Modules supported in this release

See GTS SDK 3.3 data sheet for list.

New features in this release

See GTS SDK 3.3 data sheet.

Known issues in this release

Issue #	Project	Description
GDSDK-182	GTS SDK	SystemDefinitionAPI does not allow manipulating major frame of PCM.
GDSDK-181	GTS SDK	GetGTSStatus(ex) has very poor performance.
GDSDK-180	GTS SDK	GetBufferParameterMapping failed at the SyncWord at front.
GDSDK-178	GTS SDK	Need to be able to retrieve part reference from type number.

Issue #	Project	Description
GSDK-161	GTS SDK	Out of lock (LossStatusCount) when testing GTS/DEC/005/C with 20M, NRZ-L and Bit-sync. This is none issue when using Borland C++ sample code.
GSDK-157	GTS SDK	Overflow at SDK Ring Buffers occurs when going above 6.5MHz. This is none issue when using Borland C++ sample code.
GSDK-149	GTS SDK	Function to return the card serial number is required.
GSDK-36	GTS SDK	SDK Installer always installs "MicrosoftWindowsInstaller 3.1" regardless of whether or not it was already installed. This will affect the installation time.
GSDK-15	GTS SDK	SystemDefinitionAPI: Does not support setting up Major Frames.
GSDK-14	GTS SDK	GroundStationAPI: Does not support setting up "Name" on FrameWords in a PCM Package.
GSDK-3	GTS SDK	SystemDefinitionAPI: Rename IMinorFrameWords.RemoveWord (indexToRemove) parameter as its' causing confusion.

Issues fixed in this release

Issue #	Project	Description
GSDK-177	GTS SDK	SystemDefinitionAPI writes '0,2' instead of '0.2' at 'Acquisition Loop Bandwidth' which make it failed to be read.
GSDK-176	GTS SDK	SystemDefinitionAPI failed to read XidML when it contains 'Generic PC'.

Products supported by DAS Studio 3

For a list of products supported by DAS Studio 3, see the *DAS Studio 3* data sheet.

Legacy modules not supported by DAS Studio 3

Module
KAD/ADC/001
KAD/ADC/002/B/100m
KAD/ADC/002/B/1V
KAD/ADC/002/C/100m
KAD/ADC/002/C/10V
KAD/ADC/002/C/1V
KAD/ADC/003
KAD/ADC/003/B
KAD/ADC/005
KAD/ADC/006
KAD/ADC/009/QB100
KAD/ADC/009/QB350
KAD/ADC/009/S1
KAD/ADC/009/S2
KAD/ADC/009/S4
KAD/ADC/010/B
KAD/ADC/010/C
KAD/ADC/011/B/X1
KAD/ADC/011/C/X1
KAD/ADC/021
KAD/ADC/021/RT
KAD/ADC/106
KAD/ADC/109/S1
KAD/ADC/117
KAD/ADC/126
KAD/BCU/001
KAD/BCU/001/B
KAD/BCU/001/CX
KAD/BCU/003
KAD/BCU/003/SB
KAD/BCU/101

Module
KAD/BCU/102
KAD/BCU/102/B
KAD/BCU/104
KAD/BCU/105
KAD/BCU/105/B
KAD/CBC/101
KAD/CBC/102
KAD/CBI/101
KAD/DEC/002
KAD/DPI/002
KAD/DSI/003
KAD/ENC/004
KAD/ENC/004/B/ET
KAD/ENC/004/ET
KAD/ENC/005/B/RS
KAD/ENC/006/HA1
KAD/ENC/006/HA2
KAD/ENC/006/HA3
KAD/ENC/006/HA4
KAD/ENC/006/X1
KAD/ENC/006/X2
KAD/ENC/006/X5
KAD/ETH/001/B
KAD/ETH/001/C
KAD/LDC/001/01
KAD/MAT/001/B
KAD/MBC/001
KAD/MBI/001
KAD/MBI/001/B
KAD/MBI/102/00
KAD/MBI/103
KAD/MDC/001
KAD/MDC/104
KAD/MEM/004/4G
KAD/MSB/001
KAD/MSB/001/B
KAD/MSB/002/B

Module
KAD/MSB/003
KAD/MSB/003/B
KAD/MSB/103
KAD/PBM/002
KAD/PBM/002/BA1
KAD/RTC/002
KAD/SDC/002/90V
KAD/SDI/001
KAD/SIG/101
KAD/TCG/001
KAD/TCG/001/B
KAD/TDC/001/10K
KAD/TDC/001/2K2
KAD/TDC/002/ET/00
KAD/TDC/002/B/00
KAD/TDC/002/B/ET/00
KAD/TDC/004
KAD/TDC/004/ET
KAD/TDC/006
KAD/TDC/006/RT
KAD/UAR/001
KAD/UAR/002/B
KAD/UAR/003
KAD/UAT/101
KAD/UTL/001
KAD/UTL/102
KAD/UTL/102/X1
KAD/UTL/102/X2
KAM/ADC/004
KAM/ADC/004/05/FB/350
KAM/ADC/009/S1/5KHZ
KAM/ADC/009/S2/ET/MA
KAM/ADC/011/10V
KAM/ADC/012/10V
KAM/ADC/013
KAM/ADC/014/10V
KAM/ADC/019/100

Module
KAM/CDC/001
KAM/CDC/001/B
KAM/CDC/001/C
KAM/DPI/001
KAM/ENC/002
KAM/ENC/003
KAM/ENC/006
KAM/ENC/006/X3
KAM/ENC/006/X4
KAM/ENC/007
KAM/MAT/001/00
KAM/MEM/001
KAM/MEM/002/00
KAM/MEM/003
KAM/MEM/003/B
KAM/MEM/003/C
KAM/MEM/003/D
KAM/MSB/002
KAM/MSB/002/B/TC
KAM/TCG/102
KAM/TDC/003
KAM/UAR/002
KAM/VID/002
MKM/ADC/005
MKM/SDC/001
MKM/CHS/02U
MKM/ADC/014/R1
MKM/ADC/014/R2
MKM/BCU/101
MKM/BCU/101/B
MKM/UAR/102
NET/SWI/004/EM1
SSR/CHS/001

Acronyms

This document lists common acronyms and terms used in telemetry. For more telemetry terminology, see *TEC/NOT/026, Dictionary of telemetry terms*.

AAAF

Analog Anti-Aliasing Filter. See [AAF](#).

AAF

Anti-Aliasing Filter. A filter which reduces aliasing effects by restricting the bandwidth of the sampled signal to approximately satisfy the sampling theorem, that is, most of the signal energy is kept within a bandwidth of half of the sampling frequency.

ACK

ACKnowledgment code. The communications code sent from a receiving station to a transmitting station to indicate that it is ready to accept data. It is also used to acknowledge the error-free receipt of transmitted data.

Acra KAM-500

Acra's flagship modular data acquisition product.

A/D

Analog to Digital. Conversion of analog signals to digital.

AES

Advanced Encryption Standard. An NIST-standard cryptographic cipher that uses a block length of 128 bits and key lengths of 128, 192 or 256 bits. Officially replacing the Triple DES method in 2001, AES uses the Rijndael algorithm. AES can be encrypted in one pass instead of three, and its key size is greater than Triple DES's 168 bits.

AHeAD

Aircraft Health Analysis and Diagnosis. Embraer system for predictive maintenance.

AHUMS

Adaptive HUMS. See [HUMS](#).

ARO

After Receipt (of) Order.

ARP

Address Resolution Protocol. A protocol used to obtain a node's physical hardware address.

ARTM

Advanced Range TeleMetry program. Tier 1 products use SOQPSK techniques to double the data rate in a given RF bandwidth; Tier II uses multi-h techniques to treble it. PCM/FM is sometimes referred to as Tier 0.

ATP

Acceptance Test Procedure. The final phase of design validation, which ensures that each component of a customer's system (hardware and software) work together.

BAG

Bandwidth Allocation Gap. Allocated data transmission interval in an ARINC 664 Part 7 network.

Bandwidth

The frequency range occupied or required by a signal. Pulse Code Modulation (PCM) signals contain harmonics that are usually removed by pre-modulation filtering to reduce the bandwidth needed for telemetry transmission or tape recording. However, insufficient bandwidth may result in the loss of essential information and prevent the recovery of PCM encoded data.

Barker codes

A selection of bits to be used as frame sync words so as to minimize the probability of false lock. For more information, see the Reference section of the *Applications Handbook*.

BDS

Best Data Selector. Diversity receiver method where the stream with the least data errors, such as sync word slips, and sync word bit errors, is used.

BER

Bit Error Rate. The average number of bits transmitted in error. Every data link has a theoretical minimum error rate depending on the noise present. A reasonable encoder/decoder system linked via copper would have a BER of 10⁻⁹. BERs are specified for encoders, data links (especially radio), bit syncs, and decoders.

BIO-L

Bi-phase Level. See [PCM Codes](#).

BIO-M

Bi-phase Mark. See [PCM Codes](#).

BIO-S

Bi-phase Space. See [PCM Codes](#).

BOM file

File used to store original hardcopy BOMs (Bill of Materials).

bps

Bits Per Second. The measurement of the speed of data transfer in a communications system. Note that Bps is used to denote Bytes Per Second.

BSS

Best Source Selector. Diversity receiver method where the stream with the best signal-to-noise ratio is used.

CAIS

Common Airborne Instrumentation Systems. Developed by the U.S. Department of Defense to promote standardization commonality and interoperability among aircraft test instrumentation systems.

CAR

Corrective Action Report. A report into any defect in any product or procedure.

cBIT

Continuous Built-In-Test.

CBM

Condition-Based Maintenance. Used primarily to predict when to service the machine rather than to repair it, but no clear distinction. Originally used for industrial machines and generators, then for airplanes.

COFDM

Coded Orthogonal FDM. See [FDM](#).

COMSEC

Compound word for COMMunications SECurity.

COO

Confirmation of Order. The document issued to customers that confirms terms and conditions, price, and quantities of the last revision of RFQ.

COTS

Commercial Off-The-Shelf. Refers to ready-made merchandise that is available for sale.

CSMA/CA

Carrier Sense Multiple Access/Collision Avoidance. A transmission protocol that attempts to avoid collisions that can occur when two nodes attempt to transmit at the same time on the bus rather than detect them, as in CSMA/CD.

CSMA/CD

Carrier Sense Multiple Access/Collision Detection. The Local Area Network (LAN) access method used in Ethernet. When a device wants to gain access to the network, it checks to see if the network is quiet (senses the carrier) before it begins transmitting its data. Collision Detection allows for the node to be aware if another node begins to transmit causing their frames to collide.

CSS

Correlated Source Selection. Diversity receiver method where two streams with roughly the same signal-to-noise ratio and data error rates are aligned (correlated) and voting or soft-bits are used to decide on a bit-by-bit basis.

D/A

Digital to Analog. Conversion of digital signals to analog.

DAS

Data Acquisition System.

DAS Studio 3

DAS Studio 3 uses a multi-threaded design, which utilizes multi-core processors to improve performance. DAS Studio 3 lets you configure Data Acquisition Units (DAUs), network

switches, recorders and ground stations in an integrated environment.

DAU

Data Acquisition Unit.

dB

Decibel. A unit which indicates a ratio of power between two signals.

dBc

Decibels relative to carrier. A common measurement (in decibels) in Radio Frequency (RF) engineering to specify the power of a sideband in a modulated signal relative to the carrier.

DHCP

Dynamic Host Configuration Protocol. A protocol that automatically assigns IP addresses to client stations logging onto an IP network.

Diversity Combining

A method, based on signal power, of switching between diverse receivers.

Diversity receivers

Using two or more streams to reduce lost data. *Temporal diversity* - sending data twice in the one stream. *Frequency diversity* - using two frequencies. *Spatial diversity* - using two receivers at different physical locations. *Polar diversity* - using left and right hand (I/Q) receivers.

DM-M

Delay Modulation Mark. See [PCM Codes](#).

DM-S

Delay Modulation Space. See [PCM Codes](#).

DNS

Domain Name System. A system for converting host names and domain names into IP addresses on the Internet or on local networks that use the TCP/IP protocol.

DST

Data Sheet. Every product must have a data sheet outlining the features, applications specifications, and revision history as well as any other technical data required to use it. The front leaf of the data sheet is used by Sales as a short-form data sheet which they give to potential customers.

DV

Design Verification. The stage between handover after unit test and product release; it culminates in a Design Verification Report (DVR). DV is also an acronym for the Design Verification department.

DVP

Design Verification Plan.

DVR

Design Verification Report. Every active NRE culminates in a DVR. If written after a design verification phase, it documents all the tests done and the results. If written after the suspension of an NRE, it states the reason(s) for the suspension.

Eb/No

Bit Energy/Noise Spectral Density. A measure of the signal-to-noise ratio.

EEPROM

Electrically Erasable Programmable ROM. Re-writable memory that holds its content without power. EEPROMs have a lifespan of between 10k and 100k write cycles, which is considerably greater than the EPROMs that preceded them.

EHUMS

Engine HUMS. See [HUMS](#).

ENOB

Effective Number Of Bits.

ES

End System. ARINC 664 Part 7 end-device that produces data to be transmitted over the ARINC 664 Part 7 network.

ESS

Environmental Stress Screening. Process of exposing products to stresses in order to force latent defects to manifest themselves by permanent or catastrophic failure during the screening process.

FAT32

An enhancement of the File Allocation Table file system that supports memory media with capacities up to 2 TB.

FAQ

Frequently Asked Questions. Questions asked by both customers and Curtiss-Wright employees.

FEC

Forward Error Correction. A means of adding extra bits to reduce bit error rates. Common methods are convolutional, reduced parity, and turbo coding.

FDM

Frequency Division Multiplexing. Transmitting multiple data signals simultaneously over a single wire by using multiple carriers, each having a unique center frequency. Each data stream, such as text, voice or video, is placed into a separate carrier that is modulated by various methods.

FDAU

Flight Data Acquisition Unit.

FIFO

First In First Out. A storage method that retrieves the item stored for the longest time.

FQPSK

Feher-patented QPSK. See [QPSK](#).

FSK

Frequency Shift Keying. A simple digital modulation technique that uses two frequencies for 0 and 1. See [QPSK](#).

FSR

Full Scale Range.

FTI

Flight Test Instrumentation. The instrumentation system, including mounting brackets, that is used on an aircraft for flight test purposes. It is usually orange in color in order to distinguish it from standard equipment.

FTP

File Transfer Protocol. File transfer protocol that runs over TCP/IP.

FUMS

Fleet Usage Monitoring System. HUMS for a particular fleet of aircraft (not very common).

GAHMM

Global Aircraft Health Monitoring and Management. Airbus system for predictive maintenance.

GHUMS

Generic HUMS. See [HUMS](#).

GSX-500

Suite of ground-station software products. Some of these products are third-party.

GTS-500

Suite of ground-station hardware products. Some of these products are third-party.

Hamming code

A method by which extra bits can be added to a word so as to detect one (or more) bit errors (and possibly fix them).

hDefML

Hardware Definition Markup Language. A hardware definition schema, used by Acra software to program Acra hardware.

HUMS

Health and Usage Monitoring System. Mostly (and originally) for helicopters. Focused on rotating parts (gear box, shaft) with specific software for frequency analysis and cumulative databases. Variants include E-HUMS (engines), T-HUMS (Turbo prop shafts).

iBIT

Initiated Built-In-Test.

ICMP

Internet Control Management Protocol. An IP protocol used to send error and control messages. The most widely known ICMP function is the Ping command which echoes a message across the network which allows the communication path between end nodes to be tested.

IEEE

Institute of Electrical and Electronic Engineers. A membership organization that includes engineers, scientists, and students in electronics and allied fields.

iDefML

An XML file for each piece of hardware, which outlines the XidML schemas that apply and the constraints imposed for each setting and a pointer to the data sheet. For Acra KAM-500 modules, it also contains register definition and EEPROM generation sections.

IGMP

Internet Group Management Protocol. The protocol that governs the management of multicast groups in an IP network.

ISI

InterSymbol Interference. A form of distortion of a signal in which one symbol interferes with subsequent symbols. This is an unwanted phenomenon as the previous symbols have a similar effect as noise, thus making the communication less reliable.

IRIG

Inter-Range Instrumentation Group. The standards body of the Range Commanders Council (RCC).

IRIG time codes

The different time codes have alphabetic designations. A, B, D, E, G, and H are the standards currently defined. The main difference between codes is their rate, which varies between one pulse per minute and 10,000 pulses per second.

IRIG 106 (Ch.4 Ch.8 Ch.10)

Inter Range Instrumentation Group. IRIG-106 is the main standard in our industry, containing chapters on PCM (ch. 4), MIL-STD-1553 snarfing (ch. 8), solid state storage (Ch.10), and RF standards (appendices).

iNET

Integrated Network Enhanced Telemetry. A program, led by Southwest Research Institute that is developing a standard for next-generation data acquisition systems. A key objective of iNET is to adopt open standard network-based technologies to ensure reduced costs and equipment interoperability.

Since the iNET standard is not released as of 2012, iNET-X is an expedited implementation of the iNET standard that

provides the core functionality, technologies, and standards that are outlined in the iNET standard and unlikely to change in the released version of the standard. For the end user, iNET-X provides a phased, safe, and gradual transition towards network based technologies.

IP

Internet Protocol. The network layer protocol OSI stack. The IP layer provides logical IP source and destination addresses for packets that are transmitted across the network.

IP address

The address of a device attached to an IP network. Every network node must have a unique IP address for each network connection. The format of an IP (version 4) address is a 32-bit numeric address, written in dotted quad format. Each number can be zero to 255. For example, 1.160.10.240 could be an IP address. Some IP addresses are reserved. For more information, see <http://www.iana.org/numbers>

IPC

Institute for Printed Circuits. Class 3 is the best standard for visual inspection of assembled Printed Circuit Boards (PCBs).

IP subnet addressing

Routers, or gateways, are used to separate networks. The router breaks the network into multiple subnets. This result may seem familiar as Class A, B, and C addresses have a self-encoded or default subnet mask built in; class A network address - 255.0.0.0: class B network address - 255.255.0.0: class C network address - 255.255.255.0.

ISO 9000

ISO 9000 is a family of standards for quality management systems. ISO 9000 is maintained by ISO, the International Organization for Standardization. Adhering to an ISO 9000 standard certifies that formalized business processes are being applied.

ISHM

Integrated Systems Health Management. Similar to L/ESS.

JIRA

Curtiss-Wright's internal issue-tracker software.

KAM chassis

Consists of housing, Power Supply Units (PSU), and backplane.

kbps

KiloBits Per Second. A unit of data transfer rate equal to one thousand bits per second.

ksps

KiloSamples Per Second. One thousand samples per second.

kHz

KiloHertz. One thousand cycles per second. It is used to measure the transmission frequency of electronic devices, including channels, buses, and the computer's internal clock.

KGV-69

A chip designed to be a 'bare bones' encryptor for use in very high risk applications. The KGV 69 encrypts and decrypts serial data at up to 50 Mbps.

kV

KiloVolt. One thousand volts.

L/ESS

Loads and Environmental Spectra Survey. Mostly airframe strain gauges.

LNA

Low-Noise Amplifier. An amplifier used in communication systems to amplify very weak signals.

LXI

LAN eXtensions for Instrumentation. A standard developed by the LXI Consortium. The LXI standard defines devices using open-standard LAN (Ethernet) for system inter-device communication.

mA

MilliAmpere. One thousandth of an amp.

MAC

Medium Access Control. The MAC layer adds source and destination hardware address identification to MAC frames transmitted across the Ethernet. The MAC layer also defines the protocol governing the transmission of Ethernet frames over the medium. The MAC layer of wired IEEE 802.3 Ethernet is CSMA/CD whilst the MAC layer of wireless IEEE 802.11 is CSMA/CA.

MAC address

A hardware address which uniquely identifies each node of a network. In IEEE 802 networks, the Data Link Control (DCL) layer of the OSI reference model is divided into two sublayers—the Logical Link Control (LLC) layer and the Media Access Control (MAC) layer. The MAC layer interfaces directly with the network medium. Consequently, each different type of network medium requires a different MAC layer.

Matched filter

The optimum filter required to maximise the signal-to-noise ratio in receivers. The GTS/DEC/003 uses a fully programmable digital matched filter.

Matches to lock

The number of valid sync words (1-16) required after loss before the data is considered valid.

Max

Error, including drift over temperature. Contrast with [Typical](#).

Mbps

MegaBits Per Second. One million bits per second. (If the B is upper case, it is MegaBytes per Second—one million bytes per second.)

MBps

MegaBytes Per Second. One million bytes per second. 1 MB = 1024 kB.

MHz

MegaHertz. One million cycles per second. It is used to measure the transmission speed of electronic devices, including channels, buses, and the computer's internal clock.

MIL-STD

Military Standard. A detailed technical specification for a product that is purchased by a U.S. military agency.

Misses to loss

The number of sync words (1-16) which fail the match tolerance before data is considered invalid.

ms

MilliSecond. One thousandth of a second.

Msp/s

MegaSamples Per Second. One thousand samples per second.

MTBF

Mean Time Between Failures. The mean (average) time between failures of a system.

MTU

Maximum Transmission Unit. Maximum packet size allowed to be carried on the network segment. Any packet that exceeds the MTU is fragmented by the intermediate router or switch or may be discarded. Typically the MTU of an Ethernet frame is 1522B on an IEEE 802.3 100BaseTX Ethernet network segment.

mV

MilliVolt. One thousandth of a volt.

NDA (IP)

Non-Disclosure Agreement (Intellectual Properties). A legal contract, between at least two parties, that outlines confidential materials or knowledge which the parties wish to share. As part of the contract, the parties agree not to disclose information covered by the agreement.

NRE

Non-Recurring Engineering. Any task to be carried out by product development becomes an active NRE. Every active NRE culminates in a DVR.

NRZ-L

Non-Return to Zero Level. See [PCM Codes](#).

NRZ-M

Non-Return to Zero Mark. See [PCM Codes](#).

NRZ-S

Non-Return to Zero Space. See [PCM Codes](#).

ns

Nano Second. One billionth of a second (1E-9 seconds).

NTP

Network Time Protocol. Internet time synchronization protocol with millisecond accuracy.

OLM

Operational Loads Monitoring. Mostly airframe strain gauges.

OSI (model)

Open System Interconnection. An ISO standard for worldwide communications that defines a framework for implementing protocols in seven layers. Control is passed from one layer to the next, starting at the application layer in one station, proceeding to the bottom layer, over the channel to the next station and back up the hierarchy.

Package

An element of XidML that describes how data is transported. For example, when starting kExcel we have to select the package (PCM format) to be loaded in SAM/DEC/007.

PAM

Pulse Amplitude Modulation. Pulse modulation in which a voltage is sampled periodically, then transmitted as an analog signal whose amplitude is proportional to the sampled voltage. Because PAM is susceptible to transmission noise, it has been replaced by PCM in most telemetry applications. For more information, see *TEC/NOT/024, Evolution of Pulse Code modulation (PCM)*.

Parser

Primarily a Curtiss-Wright word for a bus monitor that stores whole packets in triple buffers (received, interim, and read) so that specific words from specific packets can be included coherently.

pBIT

Periodic Built-In-Test.

PCB

Printed Circuit Board. A rigid, flat board that holds chips and other electronic components. A PCB legend on a PCB indicates its part number and serial number.

PCM

Pulse Code Modulation. The primary way analog signals are converted into digital form by taking samples of the waveforms from 8 to 192 thousand times per second (8 to

192 kHz) and recording each sample as a digital number from 8 to 24 bits long.

PCM Codes

Any of several encoding schemes used to convert a parallel digital value into a serially transmitted sequence of binary code. For more information on PCM codes, see *TEC/NOT/027, IRIG 106-96 chapter 4*.

PHM

Prognostic Health Monitoring. Like CBM, originally used for wind turbines and generators.

PHUMS

Prognostic HUMS. See [HUMS](#).

PING

Packet Inter-Network Groper (ICMP Echo Request). An Internet utility used to determine whether a particular IP address is reachable by sending out a packet and waiting for a response. PING is used to test and debug a network as well as see if a user or server is online.

PO

Purchase Order. Document issued by a buyer to a seller, indicating the type, quantities and agreed prices for products or services the seller will provide to the buyer.

Port

A number used, in conjunction with the IP address, to indicate one end of an Ethernet conversation. Some port numbers are reserved for particular services. The port number identifies what type of port it is. For example, a server listening for HTTP traffic listens on port 80. Port numbers range from 0 to 65536, but only port numbers 0 to 1024 are reserved for privileged services and designated as well known ports. For more information, see <http://www.iana.org/numbers>

PTP

Precision Time Protocol, IEEE 1588. GPS-triggered time synchronization protocol with sub-millisecond accuracy.

PPM

Parts Per Million.

Pps

Packets Per Second. The measurement of activity in a local area network.

QoS

Quality of Service. A measure of performance in a data communications system, which may comprise of one or more metrics. In networked-based systems typical QoS metrics include latency, jitter, throughput, and loss. QoS provisioning mechanisms are used to ensure that the system's performance meets the target QoS goals as defined by the relevant QoS metrics.

QPSK

Quadrature Pulse Shift Keying. A digital modulation scheme that conveys data by changing, or modulating, the phase of a reference signal (the carrier wave). See [FSK](#).

QRRC

Quaternary Root Raised Cosine. A base-band modulation that allows almost twice the data rate as PCM/FM in the same RF band.

RAM

Random Access Memory. Memory that is 'byte addressable' and provides direct access to any location on the chip. The contents of any byte can be read or written without regard to the bytes before or after it.

RARP

Reverse ARP. A protocol that retrieves the IP address associated with a given MAC address.

Ratiometric

In electronic or electromechanical systems, it refers to the output voltage as a ratio of the supply voltage. For example, if the input voltage is doubled, the output voltage is doubled.

RCC

Range Commanders Council. The RCC is part of the U.S. Government. See [IRIG](#).

RDAU

Remote Data Acquisition Unit.

Return code

Represents the success condition of a tool. '1' means success; '0' means failure.

RFP

Request for Proposal. Invitation for suppliers, often through a bidding process or invitation to tender, to submit a proposal on specific commodity or service.

RFQ

Request for Quotation. A process where suppliers are invited to bid on specific products or services.

ROM

Rough Order (of) Magnitude estimate. An early cost estimate used to give a rough estimate of what the project will cost to complete.

ROM

Read Only Memory. Memory that permanently stores instructions and data. Its content is created in the last masking stage of the chip manufacturing process and cannot be changed. Although EPROMs, EEPROMs, and particularly flash memory, are the kinds of non-volatile storage one hears about more often, ROM technology is mature and inexpensive.

RMA

Return Merchandise Authorization. An RMA is the official authorization from Acra that it will accept product to be returned from a customer site. An RMA is typically granted by Acra when there is a problem with a product which necessitates its return to Acra for repair, rework, or replacement. RMAs are granted by the Applications Department at Acra.

RNRZ-L

Randomized Non-Return to Zero Level. See [PCM Codes](#).

RTP

Real-time Transport Protocol. Transport protocol running over UDP/IP, used for real-time applications.

RTSP

Real-Time Streaming Protocol. An application level protocol for controlling the delivery of data with real-time properties. RTSP is known as the Internet remote control since it provides a mechanism for users to PLAY, PAUSE, and REWIND selected streams of data. The RTSP protocol only defines how to command real-time streams, it does not define how those streams are delivered across the network.

RX

Receive. A communications abbreviation for receive. Contrast with [TX](#).

RZ

Return to Zero. See [PCM Codes](#).

SDRS

Structural Data Recording System. Similar to SUMS.

SHM

Structural Health Monitoring. Used for civil engineering originally (bridges, buildings) and then airplanes.

SINAD

Signal to Noise And Distortion ratio.

Snarfer

Primarily a Curtiss-Wright word for a bus monitor that stores traffic and tags (such as time) in a FIFO. For example, as per [IRIG-106](#) chapter 8.

SNMP

Simple Network Management Protocol. A widely used network monitoring and control protocol. Data is passed from SNMP agents, which are hardware and/or software processes, reporting activity in each network device, such as a hub, router or bridge, to the workstation console used to oversee the network.

SOQPSK

Shaped Offset Quadrature Phase-Shift Keying. See [QPSK](#).

sps

Samples Per Second.

SRAM

Static RAM. A fast memory technology that requires power to hold its content. Static RAM (SRAM, S-RAM) is used for high-speed registers, caches, and relatively small memory banks such as a frame buffer on a display adapter.

SPHM

Structural Prognostic Health Monitoring. Similar to PHM.

SSS

Smart Source Selector. A Curtiss-Wright technology where elements of link power, signal-to-noise ratio, best bit selection, and best data selection are used in diversity combining.

STP

Shielded Twisted Pair. STP is used in noisy environments where the shield around each of the wire pairs, plus an overall shield, protects against excessive electromagnetic interference. Contrast with [UTP](#).

SUMS

Structural Usage Monitoring System. Mostly used for aerostructures/wings on airplanes.

Switch

A device that can forward Ethernet frames to their destination.

Sync word match tolerance

The number of bits (0-63) that can be incorrect and the sync word is still considered a match.

TATEM

Technologies And Techniques for new Maintenance concepts. EU study with 60 companies under framework program.

TCP

Transmission Control Protocol. A reliable transport protocol, which ensures that all data arrive accurately and 100% intact at the other end by allowing for acknowledgments and retransmissions of lost packets.

TCP/IP

Transmission Control Protocol/Internet Protocol. This de facto Unix standard is the protocol of the Internet and the global standard for communications.

TDM

Time Division Multiplexing. A process by which there is a strictly defined schedule that controls when a node can transmit on the bus.

TDMA

Time Division Multiple Access. A process by which there is a strictly defined schedule that controls when a node can transmit on the bus. Multiple nodes may access the bus.

Telemetry

The science of gathering information at some remote location and transmitting the data to a convenient location to be examined and recorded.

TFTP

Trivial File Transfer Protocol. File transfer protocol that runs over UDP/IP.

THD

Total Harmonic Distortion. A measurement of the harmonic distortion present in a signal. It is defined as the ratio of the sum of the powers of all harmonic components, to the power of the fundamental frequency.

THUMS

Engine HUMS (T=Turbo fan/shaft/jet). See [HUMS](#).

TMATS

TeleMetry Attributes Transfer Standard. ASCII file metadata format for PCM related metadata.

TX

Transmit. A communications abbreviation for transmit. Contrast with [RX](#).

Typical

Error at 25°C.
Contrast with [Max](#).

UDP

User Datagram Protocol. An unreliable connection-less transport protocol which doesn't provide a guarantee that packets will arrive, or that they will arrive in the order in which they were sent. UDP is widely used for streaming audio and video, voice over IP (VoIP), and videoconferencing.

UTP

Unshielded Twisted Pair. A pair of wires that are twisted around each other to minimize interference. Contrast with [STP](#).

VDC

Volts Direct Current. Electricity whose polarity is constantly the same polarity.

VHM

Integrated Vehicle Health Monitoring. Used for NASA space vehicles originally. Relies on extensive network of sensors built into the vehicle.

Viterbi Equalization

A method of taking advantage of known inter-symbol interference inherent in some modulation schemes such as PCM/FM to improve bit error rate.

VHUMS

Vehicle HUMS. See [HUMS](#).

VL

A Virtual Link defines a preconfigured unidirectional connection from one end system to one or more destination end systems in an ARINC 664 Part 7 network.

VLAN

Virtual Local Area Network (Ethernet). A logical subgroup within a local area network that is created via software rather than manually moving cables in the wiring closet.

 V_{rms}

Volts Root-Mean-Square. The root-mean-square (rms) voltage of a sinusoidal source of an electromotive force: V_{rms} is used to characterize the source. It is the square root of the time average of the voltage squared.

 V_{p-p}

Volts Peak-to-Peak. The difference between the largest voltage in the signal and the lowest voltage in the signal.

WLAN

Wireless Local Area Network (IEEE 802.11). A local area network that transmits over the air typically in the 2.4GHz or 5GHz unlicensed frequency band.

XdefML

XidML Definition Markup Language. A published (on www.xidml.org) validation schema that can optionally be used in conjunction with XidML to allow vendors to specify constraints for their XidML instrument definitions.

Xid

eXtensible Instrumentation Definition. Old metadata standard, now replaced by XidML.

XidML

eXtensible Instrumentation Metadata exchange Mark-up Language. A published metadata schema for how telemetry systems are configured. XidML supersedes XID and Curtiss-Wright's XML. It includes hardware, packet, and processing setup information.

XHUMS

Experimental HUMS. See [HUMS](#).

X-Tools

Versions of some of Curtiss-Wright's software tools, such as X-Setup, X-Report, X-Translate, and X-Validate; introduced in an attempt to popularize XidML.