



Release Notes Version 7.1

Release Date: October 8, 2010

1. Startup file definitions on a 64-bit Operating System will be incorrect by default and require hand editing.
2. Sync Lock Processing is not supported in the IAP servers (IAP derived parameters), the Order Arrival server (trigger parameters) or for nulled parameters.
3. IADS does not support Nulling for aperiodic, discrete, blob, ulong or trigger parameters.
4. An IAP parameter's value can be viewed in the Parameter Analysis Tool but the IAP parameter itself cannot be debugged or edited.
5. Directly accessing an XLS file in the Interpolate2d function can cause unpredictable behavior; accessing a CSV file is the preferable method.
6. Desktop *Delete* and *Properties* menu options have been moved to the Configuration Tool under the Edit menu.
7. On Desktop or Analysis Window export the system will now release all COM functions (local derived) upon destruction of the parameter.
8. Cannot change sample rate of `_IadsDecomStatus_` parameters using the new Tpp Parameter Rate Selection dialog.
9. When you change the state of data archiving or reset the CDS, you will now be prompted with an additional option to append to the current data archive. When choosing the Append option on a CDS reset, if the time had jumped backwards there will be a copy made of the current data archive automatically.
10. The default behavior on a CDS recovery is now to append to the current archive. If time has gone backwards upon CDS recovery, we will automatically create a copy of the current archive (previous versions default behavior).

NEW FEATURES	
CDS	
4430	Ability to maintain a singular archive during CDS resets, CDS recoveries, manually stopping and restarting data archiving, and forward time jumps (backwards time jumps still require a CDS reset)
7403	CDS 256k parameters at 3Mega samples per second
8975	CDS now creates Time Segment Log in the IADS Logs to record time breaks

	and jumps in data
8989	CDS, IAP Servers and the IADS Client now output extensive log information in the Data directory Logs folder for support
Operator Console	
7402	Option at Operator Console startup to have the system compare (property by property) the Compute Data Server (CDS) definition in the Operator Console Startup File versus the current definition on the CDS
7405	Operator Console Storage Status has a new status element that indicates the projected amount of recording time left on the storage device given the current throughput (for both auxiliary and primary archive)
8824	Added an option to the Operator Console Tools Menu to Create an Event Marker on Nulling
Client	
3287	ActiveX Standard Gauge now has the option to add a second needle
3535	New Face Label Color property in AcGauges Heading Indicator control
6171	Single parameter Waterfall plot offers a top down view ("4" or " 5" key hit) with a color amplitude legend bar (C key hit - Amplitude Rainbow)
7205	Ability to view (and save) Analysis Windows from a Desktop other than your own
7370	ICAW, Event Monitor and Moving Map displays now export their respective table information on Desktop or Analysis Window export
7408	New Inline AutoComplete option in the Configuration Tool simplifies equation editing in the Parameter Defaults Table
7410	Can now debug and edit a parameter using the IADS Parameter Analysis Tool (not applicable to IAP parameters)
7505	New option to turn classification banners off on an Analysis Window
7662	New Sync Lock processing Data Editing option based on IADS decom status words
7663	New Advanced Import Wizard enables users to identify conflicts during the import process
7664	New zero centered Bar Graph
7666	New Transformation Coordinate functions convert geodetic position to Lat, Lon and Alt MSL
7667	The Global Parameter Replace dialog now has an option to set an equation or value as the output of an existing parameter
7668	New Transformation Coordinate functions convert Lat, Lon and Alt MSL to geodetic position
7669	New Transformation Coordinate functions return Azimuth, Elevation and Range given two positions' X, Y, Z (ECEF) coordinates
7670	Moving Map upgrades: Circle option with center position; radius in miles and nautical miles. Overlay Fill Color with transparency density option. Line Thickness option
7673	New User Developed Data Export Plugin Capability
7677	The Global Parameter Replace tool now has the option to set an equation or value as the output of an existing parameter

7679	New ability to edit Moving Map Overlay colors
7681	Aperiodic display of all samples: Stripcharts now render the pen trace for every aperiodic data point; in a Cross Plot, the user can select the X axis or Y axis as the Trigger parameter. The ICAW and Event Monitor ActiveX controls now process all points from an aperiodic parameter
7687	Never Data Indicator now an option for all IADS displays
7712	New Frequency Domain Automated Analysis
7742	Real time display of predicted results
7747	New option to turn off the Threshold Label in the Annunciator so the data value is centered
8022	Moving Map display now has the ability to set different trail lengths for each target
8101	Stop Watch control now has Countdown Timer mode
8398	Tables in the Configuration Tool that have a filter applied will now show row numbers in blue to denote the filtering
8464	Ability to create articulated models in SA display (pvt file is required)
8494	New Moving Map property to show Distance Units in Kilometers vs. Nautical Miles
8505	New dialog to set one or more Tpp parameters to aperiodic (zero sample rate) or periodic
8506	New status bar at the bottom of the Configuration Tool displays a parameter's current state, data source type, the data source argument (if applicable) and the location in the table
8543	Cross Plots can now load 1-Bit, 4-Bit, 16-Bit and 24-Bit images (in addition to the 8-Bit and 32-Bit formats)
8686	New Polygon and Line functionality: Create an equilateral polygon from the points
8688	Optimized the derived Max and Min functions
8696	New NGon (equilateral polygon) ActiveX Control
8958	New MakeAscii derived function
8983	Added new Test Point Log Export dialog with progress bar
9053	The Action Object now allows user selectable event trigger frequency
9058	Added performance monitoring capabilities; can now look at queue lengths in real time
9080	IadsDataFileInterface and IadsConfigInterface API updates
9083	New command line argument /noChangeDesktop disables the Change Desktop button on the Dashboard
RTStation	
8287	If the units field cannot be found, the text "COUNTS" will be used instead of "N/A" in IadsTpp
8526	Chapter10 1553 packets are now supported. Message and measurement information must come from a TMATS file. Please contact Symvionics for more details
8715	CDS archiving can no longer be disabled for Acra CF and Chapter10 Post Flight

8729	Expanded IadsTpp usage of Lumistar TCG so that better time handling could occur for initial out-of-lock states
8771	Improved speed of XidML file handling for IADS Start Wizard and IadsTpp
8774	IadsTpp usage of _IadsDecomStatus_ parameters is now consistent with the CDS usage
8850	IadsTpp now has the capability to detect and automatically process ASCII UART data for Acra UART cards that do not rely on snarfing. Users can select this feature from IADS Start Wizard
8868	Multi-periodic data files are now supported in IadsTpp which means that time can jump forward (but not backwards) whether archiving is disabled or not.
8987	Added option to purge TPP parameters from config file to kQuicklook
9087	IadsTpp now has the ability to detect fragmented parameters in XidML files and automatically concatenate them
9114	TMATS API updated for 7.1 to reflect additional 1553 capabilities
BUG FIXES	
3520	Left and right mouse clicks on the Default ActiveX Control dialog no longer causes IADS to exit unexpectedly
4598	Corrected multiple auto resize and resolution issues
5905	Corrected issues where controls added to an invisible layer were still visible
5996	Using the All button with a large set of parameters now cancels out properly if you press the Esc key
6219	Stripchart scales per parameter now loading properly
6530	Corrected resolution issues when importing floating style Analysis Windows
6671	Corrected issues with text boxes on property dialogs when running IADS on foreign versions of the Windows operating system
6742	Resizing a set grouped set of ActiveX objects that include a text object, no longer produces spaces between the text
6876	Copy/Paste now works correctly for the Real Time Randomdec display
6971	Derived parameters of ascii type now interpret anything within "quotes" in the derived equation as text
7144	Post Test Data Server now exits properly when you cancel the "Do you want to save your config" message box on exit
7541	CDS now exits properly if the upstream data server goes down first
7735	Ctrl Z now working correctly for the Polygon
7737	Stripchart with the enhanced pen on now aligns properly to time
7895	Derived equations that contain balanced double parenthesis ((1+1)) no longer error on validation
7995	Show Envelope Names now disabled in Cross Plot right-click menu if there are no Envelopes
8362	Frequency Plot, Multiple Waterfall plot type color modes now function correctly
8406	Corrected unexpected behavior in Waterfall plot during a ChirpZ toggle
8409	Corrected issue with Configuration Tool horizontal scrollbar getting stuck if the scroll puck is all the way to the right
8423	Scrollbar Time Range setting now saves on Log Off

8475	The system will now replace any illegal characters in the objects Name property
8499	Appended parameter information is now saved correctly in the Analysis Log
8509	CDS now processes aperiodic files correctly when auxiliary archiving is active
8523	CDS no longer exits unexpectedly when data source packets are greater than the pre-allocated size
8578	Corrected loss of sync issues with the Moving Map display
8584	Layers property now saves correctly in ActiveX controls
8630	Displays that require an Excitation parameter no longer exit unexpectedly if you click OK in the display Property Sheet without changing anything
8644	Client Application Properties, Allow double click to maximize and restore displays option, now functions correctly
8646	Derived Equation Engine Prev function no longer causes IADS to exit unexpectedly
8653	Incorrect or Missing column values in config file on CSV import and validation now displays error
8667	Frequency Plot Dominant Mode indicator now functions correctly on Y Axis zoom or translate
8669	Horizontal Situation Indicator Waypoint value no longer exceeds 100,000
8673	Corrected issue where Large/Small divisions were set to 0 in the BarGraph control
8687	Corrected potential data spike caused by filter impulse response during scrollbar
8700	Corrected issue where data export of Aperiodic data sometimes failed for Test Point data group export
8728	Corrected issue where a control's property Visible = False and the object was still being drawn
8740	Dragging first point is no longer jumpy in Line and Polygon primitives
8750	Derived equation no longer fails when you try to feed an ascii type parameter into ascii argument
8795	Corrected issues with incorrect number of columns in the Configuration File when starting IADS; system will warn the user and repair if possible
8801	CDS validation no longer fails if the Configuration File is missing a non-vital table (RTStation mode only)
8813	Corrected time issue that occurred on CDS reset when dealing with multiple data sources
8817	Configuration Tool popup hints no longer past the right edge of the screen
8831	Ctrl+C (copy) now working correctly in Configuration Tool tables
8837	Corrected export issue where Data Groups were not saved correctly and thus writing over existing entries upon import
8838	The system now updates the Parameter Defaults table sample rate for those parameters added via an IAP process
8856	Hex color values now display properly for Color Dynamics in Alphanumeric and Alphanumeric Table displays
8871	Corrected potential problem with discontinuous data during Data Group export
8897	Corrected issue where a configuration save/push was causing a large pause on

	the user's display
8910	Corrected issue that prevented using an ascii derived parameter in any equation that required an ascii input argument
8923	Corrected issue where incorrect results were posted to the Validation Log for derived/IAP parameters that use the Prev function in the data source argument
8972	Corrected issues with graphics library resource sharing
8991	Corrected memory leaks when exporting Desktops and Analysis Windows
8993	Configuration Tool equation validation no longer gives the wrong error message when the input parameter's equation is invalid
9012	Corrected issue with IRIG time updating in the Event Monitor display
9013	Export to CSV now working properly for multiple point selections on a Stripchart
9021	Maximizing the data display in the Time History Curve Fit dialog no longer causes IADS to exit unexpectedly
9024	Blob Viewer Value Format now saves correctly
9027	IADS Input Object Slider Min/Max value settings now increment correctly
9028	Resolved issue with transients in data during scrollback of filtered parameters
9029	Corrected issue in the IADS Audio Video Server - Maximum channel Id now clamped at 100 instead of 4
9037	Exporting a Desktop with an Event Monitor or ICAW display now exports all the associated parameters
9042	Corrected issue on Windows7 where all the popup hints in IADS were being cut in half
9059	IADS Data Export now sets the currently selected Data Group in the drop down correctly
9065	Corrected issue with Global Scrollbar not working properly under certain conditions
RtStation Bug Fixes	
8472	Re-fixed bug that caused ACRA Compact Flash event numbers to appear out of order and consequently processed the wrong event
8616	Corrected issue that caused Chapter10 video to look choppy on playback
8742	In IADS 6.6 a bug was introduced whereby uncorrected time jumps were allowed to pass from IadsTpp to the CDS which in turn halted the CDS. This has been corrected.
8772	Fixed case where TMATS PCM overhead parameters with illegal spaces in them (for example, "My PCM Stream SFID") were allowed to go through. Spaces are now replaced with '_', just as they are for other instrumentation data file types
8823	If a XidML instrument does not contain, "InstrumentSet" (for example, an X-SensorBridge instrument), IadsTpp will skip that instrument and no longer return an error
8940	Corrected problems with Julian day appearing as 000 for post test chapter 10 playback
8986	Corrected error that was reported when SDI/103 was included in XidML file.
8988	Corrected Acra IENA time to start with day 001, not day 000

9018	Corrected Chapter 10 problem with XidML files that had video designated in multiple PCM streams. Previously this would return an "Unexpected error in stXidmlPcmVideoLocator".
9133	Corrected error in the TMATS reader that caused IadsTpp to stop working when the subframe name had a dash (-) in it for SFFR and SF PCM word description types
9134	Corrected error where Chapter10 Real Time and Post Flight would return 0 as the Julian day when PCM was not using continuation packets