Release Notes Version 8.1

Release Date: February 2013

1. The IADS Start Menu has been reorganized for better access to the applications. The IADS Installation package options and shortcuts have also been restructured to reflect the current IADS naming conventions.

2. IADS Display Client:

   - New IADS Startup dialog to access predefined, existing or recent IADS Configurations.

   - All IADS core displays (Stripcharts, Alphanumerics, Frequency Plots, etc.) now have advanced (ActiveX) property dialogs to dynamically drive any property in the display using a parameter's value.

   - New Data Export Wizard simplifies the process of exporting IADS data to Excel, Matlab or a CSV text file.

   - Modernized the Dashboard's appearance and usability.

   - Custom grid increments are available now for the Cross Plot, Slider and all frequency displays.

   - Ability to set, distribute and persist user input objects. New User Input Values table in the Configuration Tool.

3. Extensive IADS Operator Console upgrades:

   - Ability to save, select and manage multiple room Operator Console profiles.

   - Advanced (ActiveX) property dialogs for all Operator Console objects (IADS Server, Data Source, IADS Clients and IAPs) allow the Operator Console to be modified without directly editing the startup file.

   - Expanded Client interface and monitoring. New Client Version dialog displays the IADS version of all IADS Display Clients in a single view

   For a complete set of behavioral changes please refer to the new IADS Operator Console user manual provided with the IADS installation CD.

4. Enhanced nulling operations:

   - Nulling of aperiodic and discrete parameters.

   - Ability to preset and select an unlimited number of Null Groups with unlimited name lengths for nulling. An unlimited number of Null groups can be sampled at any time during a test.

- Ability to specify a null sampling period ranging from one second to 30 seconds; forwards or backwards sampling direction.

- New nulling report includes Group list, sampling length, IRIG start/stop times and parameter null values; report is saved to the Logs directory.

5. New IADS Log Viewer to view and filter IADS system log files. Requires .NET Framework 2.0 and Microsoft Report Viewer controls (both application available on the root of the IADS installation cd, Redist folder.

6. The IADS Automation Interface has changed. Anyone using scripts to access the *ActiveParameter* on the Stripchart will need to change their scripts to use *ActiveParameterPtr*. Also, if parameters or dynamics are hooked up to the Stripchart Threshold properties you will need to re-drop the parameters and setup the property dynamics.

NEW FEATURES	
3216	New three Dimensional Table Lookup function
5242	Custom colors are now available on ActiveX dialog color properties
5892	Added BandStop (notch) filtering
6116	New setting to match the data color in a Stripchart to its parameter name in the Title bar and Stripchart Legend
7415	Enhanced the Parameter Tool's search feature
7826	AeroFuncs DLL includes functions to perform Flight Parameter (Basic Air Data) calculations and more
8210	Server object on the Operator Console shows the Number of Enabled Parameters
8270	DataSource object on the Operator Console now shows the Aggregate Data Rate
8864	Parameter Defaults Table now has a blank (no color) setting for the Color field
9164	New TerrainFuncs DLL to expand on functions that are in the Coordinate Transformation DLL
9165	Functions for DTED0 are included in the TerrainFuncs DLL
9167	New property editor to help edit more complicated Configuration Tool entries such as the PropertyBag
9229	Situational Awareness (SA) display can show radar in cones or sweeps with cross sections and intersections
9230	Modified the IPAT tool to verify data delivery from the upstream data source
9232	Modified the IAP to automatically respond to parameter sample rate and data format changes
9240	The parameter Null Bias field in the Parameter Defaults table is now editable by the user
9243	Ability for the IAPS to perform Sync Lock Processing
9244	Modified the IADS Audio Video Server to record four audio sources
9245	Modified the action object to execute a user defined executable
9248	The Operator Console functions seamlessly between 32 and 64 bit operating systems
9250	Modified the Operator Console to present warnings to the user with possible resolution options

9251	Modified the Operator Console to parallelize Client Display launches
9254	Modified the Operator Console to allow a Save As on the final IADS configuration file save
9256	Removed the Operator Console Aircraft Selection dialog
9257	Ability for IADS Client Displays to retrieve startup options from the Operator Console
9444	Added Parameter Alias support to the Omega data source interface
9562	New Parameter Usage report
9565	External programming dlls added to the installation package: IadsConfigInterface, IadsDataFileInterface, IadsFunction and IadsFunctions1
9572	The IADS Analysis Window Toolbar now has user-configurable options
9662	Reworked look angle calculations to account for aircraft rotation angles
9722	Added Parameter Alias support to the Custom data source interface
9723	Added multiple data source support to the Omega data source interface
9754	IPAT Tool upgrades: Added tabbing to the main dialog and Data Corrections and Thresholds tabs. Although the IPAT tool does not currently debug IAP parameters, you can now view an IAP parameter's equation. There is now a visual indicator (asterisk next to the parameter name in the title-bar) that a parameter has been edited in the tool; when the parameter is saved the asterisk is removed.
9792	New MakeBlob(NumberOfBits, "DataGroup") function for use with multiple parameter inputs
10019	New Dashboard colors
10201	Equatorial radius added to the Great circle calculations in the TerrainFuncs.dll
10324	Can now define the entire table string in the Interpolate2D and Interpolate3D functions
10368	IPAT tool now displays the breakdown of IAP parameter equations
10397	New Cockpit View and Follow View modes added to the Situational Awareness display
10443	New Configuration Tool View menu option to Prevent Duplicate Parameter Names
10534	All Frequency displays now have the option to turn on/off Sync Lock Processing using the ActiveX property sheet
10573	Blob Viewer has option to show the blob header data
NEW FEATURES for REAL TIME STATION	
9448	In the unlikely event that IADS exits unexpectedly, IadsTpp will now deploy a crash log
9711	Users now have the option to have 16 bit parameters stored as 16 bit words in the IADS data files
9796	If a user copies a row from the Configuration Tool who's ParameterDefaults column value is 'IadsTppGenerated', when he pastes it into Configuration Tool, the first active ParameterDefaults in the ParameterDefaultsState will be inserted as the new ParameterDefaults. This is to prevent user-generated derived parameters from being deleted by IadsTpp when the user requests IadsTpp parameters be purged from the configuration file.

10286	The Program Files directory or any root folder cannot be selected as the IADS data output directory
10355	32 bit iNetX keys are now supported
10361	Missing TMATS G group fields such as program name are now included in TMATS API
10461	Now support TmNS packets in Chapter 10 Ethernet packets
10610	The system will now also look for "DayOfYear" in the VendorMap section of the XidML file to find the DOY time word. Previously only looked for "TimeDOY".

BUG FIXES

6611	Octave Band plot may freeze when changing to Waterfall mode in the property sheet
7358	Start Wizard should not allow the user to specify a root volume of a disk as the IADS data directory
8096	ActiveX Font property driven by parameter only saves last setting
9172	Analysis Window 'All' button is not grayed out in real time
9216	If you "Go To Definition" on a parameter that is filtered in the Parameter Defaults table it should alert the user
9329	IADS Server hangs during startup when connected to L3 Vista system
9337	RMS Stripchart Thresholds not persisting
9347	Cross Plot multi-view mode not saving
9374	Configuration tables not staying sorted after certain operations are performed
9376	Multi-Graph Control no longer shows Peak pointer if in Bar Graph mode
9384	Configuration tables not saving entries when button is clicked after a text edit
9400	Set TestPointID does not properly set the Current Test Point table entry
9422	Frequency Response Plot (FRP) Flutter Sweep Processing Master Bar does not show up on the Master FRP upon startup
9441	IADS Server has excessive startup delay on Vista interface with high parameter count
9459	Ascii functions not working with internal GetValue inputs
9498	Equations in the x/y fields of the MovingMapOverlays table do not export correctly
9535	Miscellaneous SyncLock Processing Issues
9568	Exporting Analysis Window or Desktop incorrectly skips exporting parameters if they are single variable inputs
9569	Export is missing parameters used in the BulkMessageViewer display
9571	Problems with auto Event Markers
9576	Illegal dynamics equations (advanced) are not producing Red X on displays
9582	When SetEquationUpdateRate is zero (0) the Client exits unexpectedly
9591	Not acknowledging the "application has encountered an error" dialog lets the process run in the background
9592	IADS Server has excessive data delivery delays using local host connection
9598	Corrected issue when GetData is used to call a GetValue function

9605	The config file is adding a ghost copy of the Analysis Window on rename
9627	User with default Desktop is sometimes limited to New Desktop in the Login dialog
9629	If you turn on "Use Nan Filter" in the IADS Application dialog it does not work
9668	Results not auto pushing to Flutter Summary Log
9679	Importing a CSV file with duplicate parameter names resulted in duplicate parameter names in the Parameter Defaults Table
9706	Flutter Summary Plot rubber band zoom only scales one of the plots x-axis
9707	In the IPAT Tool when the parameter format is set to binary, data does not change dynamically
9716	Dashboard Analysis Window list scrollbar resets when clicking on an Analysis Window in the list
9730	IADS Server has excessive config validation delays triggered by COM function based derived/IAP parameters
9742	Bad printf statement can cause IADS to exit unexpectedly
9747	Certain combinations of characters do not function correctly in the Printf format
9754	Miscellaneous IPAT Tool bug fixes
9758	Real time Randomdec fails to turn off under certain conditions
9764	Get Data Status not returning correct value if parameter is on a different Desktop
9770	Various bug fixes and improvements to the IADS Audio Video Server
9786	Multiple copies of temporary config files is consuming hard drive space and can cause IADS to fail to execute
10002	Inconsistent behavior with \\Filter option on Data Export
10003	Display alignment on Display Builder tab not aligning correctly
10007	Excessive delay between IADS Server and OA IAP Server on local socket
10013	Turning on 'Clamp Data' in the Cross Plot causes %LL text to disappear when the display is resized
10016	When the Client is logging during config updates a condition may be triggered where the Client may be disabled from receiving config updates
10025	Config Tool save table event not being generated when button selected immediately following text edit
10028	Derived parameter has incorrect results with Ascii derived data
10031	Frequency calculation reverts to old damping ratio natural frequency on a selection-drag recalculation
10044	Extended display key hits on Stripchart cause incorrect label behavior
10049	Parameter name selected from the database table dropdown needs curly braces to prevent an invalid derived equation
10055	Parameter names with invalid characters not being handled properly
10057	You cannot use a blob variable produced by one equation in another equation
10061	Defining an Event Marker in the dialog can result in a blank name if what is entered matches the beginning of an existing predefined event
10088	Installation Error 1719 during IADS installation under Windows Installer 4.5
10158	Data Export Wizard start/stop times in export file off by one point
10179	Non-visible envelopes do no reload in the Cross Plot
10184	IADS Audio Video Server selecting used source on start-up

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10225	Derived equations involving ascii processing not maintaining history during scrollback or exporting properly
10227	Post Test Data Server CSV file import error
10249	Data imported using the IADS Data File Viewer is misaligned with the specified time
10289	Ctrl+V in text matrix is undoing cell contents and/or closing out the edit box for certain special columns
10310	Client exits unexpectedly due to lack of resources on large desktops
10422	In some cases, the aircraft symbol and the altitude path on the SA display is displayed to low, or the landscape is displayed to high
10444	2D Moving Map does not always show the Target Info correctly
10452	2D Moving Map custom icons become corrupt after changing their properties
10539	Prevent potential corruption of the config file during CDS recovery operation from the Operator Console
10545	IADS Bar Graph control exits unexpectedly if you try to hook a parameter up to the TickLabelPrecision property
10546	Excessive IAP initialization time with large numbers of parameters and/or complex equations
10554	Operator Console is slow when connected to large number of Clients
10555	Configuration Tool update from Scrollbar is slow or erratic when viewing large numbers of parameters
10562	IADS Standalone Video Server now indicates on the title bar the recording/broadcast/storage state
10564	CDS exits unexpectedly due to corrupted data request via socket
BUG FIXES for REAL TIME STATION	
10454	SFID was not working correctly when not positioned directly after frame sync. This led to an "unexpected error" in the IadsTppLog.txt file.
10473	Fixed bug that cause some IadsTppGenerated derived parameters to have invalid equations
10486	Fixed bug that occurred when DAR3 segments were not complete
10590	Fixed excessive memory allocation in DAR3 setup that could lead to IADS exiting unexpectedly