WinFrog v3.9 New Features

The following Change History details all modifications, refinements and corrections for WinFrog v3.9.

Change History for v3.9

v3.9.25 August 23, 2012

- Devices
  - Plow
    - New Plow driver Oceanteam MD3 ED009

v3.9.24 July 9, 2012

- General
  - Updated the difference between GPS time and UTM to 16 seconds
  - Fixed a crashing issue that occurred if a device name plus vehicle name plus record number was longer than 50 characters
- Devices
  - Modified NORCOM driver
    - Optionally the operator can output leading zeros in each field. This essentially keeps the telegram in fixed format.
  - Counter
    - Renamed General Dynamics Counter to MHI Counter
  - GPS
    - Renamed GENERAL DYNAMICS NAV GPS to MHI NAV GPS
  - USBL
    - Renamed General Dynamics ROV to MHI Precise ROV POS

v3.9.23 June 1, 2012

- Devices
  - Cable machinery – Tycom System
    - Added optional output of an additional cable channel data in the 0x30 message
  - Counter – Etisalat Counter
    - Support exponential number
  - Plow – Etisalat Plow
    - Refactored to alleviate crashing/hanging problem that was noted but not easily reproducible as it is intermittent.

v3.9.22 May 1, 2012

- Devices
  - Plow – Etisalat Plow
    - Modified to support pitch and roll. Additionally the operator can choose the field location of each item (8) in the telegram.

- Output – NMEA
  - For all output drivers that output the $--VTG telegram (course over ground and ground speed) the version of the telegram has been updated to v3.0, which includes the mode indicator. The following mode indicators are supported A, D, S, N.

v3.9.21 March 19, 2012

- Graphics
  - Increased maximum scale from 1:50 to 1:10.

v3.9.20 February 8, 2012

- Devices
  - GPS - SeaPath
    - Bug fix for 1) if the position is bad WinFrog still updates the vehicle but with the last position and 2) to accept single point positions.

v3.9.19 January 20, 2012

- Window
  - Anchor Information (NEW!)
    - This window lists all the fairlead/anchors, range and azimuth from the fairlead to the anchor, status, and coordinates if on the bottom. This can also be printed.
- Anchor handling
  - Corrected the location when the barge vehicle "*picked*" and anchor that was on the bottom. The "*picked*" coordinates are now that of the fairlead that "*picks*" the anchor. (It used to be where the anchor was dropped.)

v3.9.18 January 6, 2012

- Devices
  - GPS - NMEA AIS
    - Bug fix. WinFrog did not convert the coordinates to the chosen working datum.
- Dynamic Vehicle Alarms
  - Corrected feature so that the vehicle alarm setup could be passed to the remotes by the controller. Note that this feature is only available with the full version WinFrog with the Controlled Remote module (i.e., not in WinFrog Remote).

v3.9.17 December 20, 2011

- Alarms
  - Added a feature for Dynamic Vehicle Alarms that causes an alarm when a vehicle enabled as excluded enters a zone (vehicle) enabled as an exclusion vehicle/area. Radio button controls for the vehicle specification were added to the Vehicle Presentation dialog and a button was added to the toolbar to globally turn the feature on or off.

v3.9.16 December 13, 2011

- Devices
  - OUTPUT – Video Overlay
    - Updated to improve issue of irregular updates and slowing of WinFrog when output is enabled.

v3.9.15 November 18, 2011

- Devices
  - SPEED LOG-TELEDYNE ADCP
    - This device will decode the ADCP ensemble and supports the SPEEDLOG, HEADING, ROVDATA, and ATTITUDE data items.
  - COUNTER-General Dynamics Counter
    - This device provides count, tension, and speed.
  - SOUNDER-ELAC SB3012
    - This device accepts the center beam depth.
  - GPS-GENERAL DYNAMICS NAV GPS
    - This device decodes the "Navigation Data Distribution Panel" data. It supports the POSITION, HEADING, ATTITUDE, WIND, and BOTTOMDEPTH data items.
  - USBL-GENERAL DYNAMICS ROV
    - This device decodes the "Precision Position System" data. It supports the POSITION data item. This provides position for more than one vehicle and is used for underwater vehicles.

v3.9.14 November 8, 2011

- Graphics
  - Bug fix for the graphics window. If the window displaying a map grid was resized to almost nothing WinFrog could freeze.

v3.9.13 November 3, 2011

- Devices
  - Added USBL driver for the IXSEA GAPS standard output for serial COM ports. The $PTSAG is the only telegram decoded.
  - Change to TELEMETRY driver. When deleting the manual ID the last one couldn't be deleted.
- USBL
  - Corrected issue with the USBL calibration report size when creating an RTF or EMF.
- Multibeam Echo Sounder (MBES) Module
  - Multibeam modifications for allowing automatic file creation when a file gets to a certain size. Plus background modifications to MBES DLL.

v3.9.12 August 22, 2011

- Devices
  - NMEA AIS
    - Reads NMEA 0183 telegrams from a marine automatic identification system (AIS)
    - Telegrams decoded: !AIVDM and !AIVDO, messages 1, 2, 3, and 5
    - These vessels are displayed as small icons.
    - Currently cannot use to position a WinFrog vehicle

- NAD83>WGS84
  - When a GPS receiver was set to output NAD83, WinFrog converted them to WGS84 using the published temporal transformation. However, the altitude (mean sea level

MSL) was also converted. This is incorrect as MSL is independent of the reference ellipsoids. Only the geoid height (separation) needs to be transformed to WGS84, which is now done and the original MSL value is retained.

v3.9.11 June 8, 2011

- Devices
  - Tritech DHSS profiler
    - Allow operator to select which time (time in scan record or time of receipt of scan) for obtaining pitch and roll placed in 1916 raw record.
    - Couple one 1916 and one 1917 record for each scan.
    - Correct head count.
  - MbToolsLink
    - New device to output line changes information using UDP (available for use with the Multibeam module).
- Line and Vehicle Naming
  - Corrected issue if two different names were the same except the second had a few extra characters, some drop down list boxes would only display the second name.
- Smart Remote
  - Vehicle data that was available at a master that was not available at a smart remote has been added and can be displayed at a smart remote. Wind, tide, and magnetometer.
- Project Wizard
  - Disabled OK button if no WinFrog projects are available for the selected folder.

v3.9.10 February 23, 2011

- Devices
  - INS – CDL MiniPOS3
    - Added device to support the CDL MiniPOS3 unit, including its inertial positioning capability.
  - TEST STRING
    - Corrected loading device configuration from initialization and configuration files in case of empty source file name field.
  - OUTPUT – Simrad SDP21 WP
    - Corrected to support output of line nodes when the respective vehicle is tracking the line in reverse.
  - OUTPUT – Simrad SDP24
    - Corrected to support output of line nodes when the respective vehicle is tracking the line in reverse.
- Working Survey Lines
  - Corrected crashing problem resulting from multiple Working Survey Line windows being open simultaneously and one or more being used to access a line for editing.
- Raw Data Logging
  - Addressed case of raw data logging of records that support multiple data epochs per record when logging raw data At Events and eventing is stopped before the full complement of data epochs for the respective records has been reached resulting in not all relevant raw data being logged. Note that this affects the HEADING, BOTTOMDEPTH and MULTI BOTTOMDEPTH data items.

v3.9.9 November 19, 2010

- Devices
  - Symmetricom XLGPS Xli
    - Corrected failure to decode positions in the eastern and/or southern hemispheres.

v3.9.8 November 17, 2010

- Operating System
  - Updated to support running as a 32-bit application on the Windows 7 64-bit operating system.

v3.9.7 November 5, 2010

- Devices
  - INS –EM1000/EM3000
    - Corrected process for validating and updating heading data to a vehicle. Addresses the case of high update rates where multiple data messages are received between vehicle updates. In this case a bad heading could be passed to the vehicle if the previous input data had been validated but not yet passed to the vehicle.
    - Implemented option to check message length as part of the data validation process.
  - TEST STRING
    - Implemented control of the delay between ASCII record output when multiple lines are selected.
- Raw Data Logging
  - Corrected issue of WinFrog crashing when logging raw ATTITUDE data from a device with a high update rate data using the At Events setting.

v3.9.6 September 23, 2010

- Devices
  - GPS – POSMV (BINARY-UDP)
    - Corrected issue associated with time synchronizing with Group 3 message and data logging at GPS week rollover.
  - SOUNDER – 7125-MBES
    - Implemented the functionality of the Reson Control utility within this device since the Feature Pack 1 upgrade the Reson 71xx topside unit does not have a UI for setting the snippet size of 7008 snippets, and the 7028, 7026 and 7027 can only be subscribed to via the remote control message 7000.
      - For 7008: Subscribe to 7008, 7000, 7004, 7006, 7007, 7503, 7610, 7026 and optionally 7027.
      - For 7028: Subscribe to 7028, 7000, 7004, 7006, 7007, 7503, 7610, 7026 and optionally 7027.
  - LBL ACOUSTIC– SONARDYNE FUSION
    - Refined the I/O Device window page display option to list the available data pages by vehicle name and if present, offset name.
- Controlled Remote
  - Improved efficiency of Controller operation by reducing the cycle time of the Controlled Remote window.

- Windows
  - Vehicle Text
    - Shortened annotation used for display of cable data for channels 4 and 5 when data is obtained via the Experion cable machinery (Plantscape device) from PORT to P and STBD to S respectively.
- Eventing
  - Automatic Eventing
    - Added support and error checking for event file path and name length to the maximum supported by Windows.
  - Manual Event
    - Corrected issue of WinFrog crashing occasionally when a manual event was taken and accepted.
    - Implemented a warning message box in the case of a Manual Event being attempted when a Working LOG file has not been specified.
    - Modified the Log only selected vehicle option to reset to not be checked for every Manual Event.

v3.9.5 July 29, 2010

- Multibeam Echo Sounder (MBES) Module
  - Added option to disable WinFrog bathymetry software filters for coverage display.
  - Display time difference between closest bathymetry time and attitude time in the QC display.
  - Correct X Y swath offsets.
  - Correct nadir beam determination when head is rolled.

v3.9.4 July 27, 2010

- Devices
  - Generic Output
    - Implemented another item LINE Online N/E

v3.9.3 June 14, 2010

- Operating System
  - Updated to support Windows 7 32-bit.
- Installation
  - Updated Adobe Reader install to 9.3, Windows 7 compatible.
- Security
  - Upgraded DESKey to v2.4.0.6
    - Windows 7 compatible.
    - Corrected problem of USB dongle not being detected if it is removed and replaced while WinFrog is running.
- Devices
  - Cable Machinery - Plantscape
    - Implemented support for the cable count and cable speed for the LCE, CDE1, and CDE2.
    - Implemented support for retrieving double values from the Honeywell OPC server instead of float values.
  - GPS – POSMV (Binary-TCP)
    - Corrected appearance of an extra line in the Data window right mouse pop-up menu.

- GPS – POSMV (Binary-UDP)
  - Implemented support for synchronizing WinFrog to the group 3 message.
  - Corrected appearance of an extra line in the Data window right mouse pop-up menu.
- LBL – NS011
  - Corrected crashing problem associated with the device telemetry tab.
- LBL – Sonardyne FUSION
  - Corrected indexing problem that resulted in POSITION data not being passed to the vehicle due to incorrect checking of the offset name in use.
- Multibeam Sounder – Reson 71xx
  - Implemented decoding of the 7028 Snippet packet for display in the Multibeam QC window.
  - Implemented display of a running count of 7008, 7026, 7027 and 7028 packets in the I/O Device window Data window.
- Sound Velocity - Applied Micro System Dual SVP Logger
  - Implemented support for zeroing both sensors independently and streaming data to the terminal window even when not logging.
- USBL – ATS
  - Corrected error that resulted in only the first beacon being decoded when messages for multiple beacons are being received and the Terminal Tab is enabled for any device window.
- General
  - Corrected text in I/O configuration dialog for TCP and UDP devices associated with the IP entry controls, i.e. changed *Host Address* to *Local Address* and *IP Address* to *Host Address*.
  - Corrected string overwrite error that could occur with device types with long names.

- Data Items
  - COUNT
    - Implemented the associated configuration of the use of tension for channels 3, 4 & 5 to the use of the count and speed for the same channels.
    - Corrected updating of the time of data for channels 1 and 2 to only occur if the respective channels have been selected to be the source of that data.
- Windows
  - Vehicle Text
    - Made backwards compatible to WinFrog v3.7.0
    - Implemented option to display cable channels 3, 4 & 5 count and speed.
  - Anchor Window
    - Corrected the position logged to the manual event logs for Pick and Drop actions for the fairlead vehicle (e.g. barge) to be that of the respective fairlead, not the reference point of the vehicle.
  - Smart Remote Control
    - Corrected problem of window not loading properly if no computers were associated with the window when the initialization or configuration file was created.
- Events
  - Auto Cable Events
    - Changed the default print setting to unselected.

- Time Synchronization
    - Changed the default raw data logging setting to log only when time is adjusted to reduce unexpected large number of unnecessary time synchronization raw records.

v3.9.2 April 23, 2010

- Devices
    - Symmetricon XL-GPS/XLi (new)
        - Added new Symmetricon XL-GPS/XLi device under the TIME BASE device group to support the new XL-GPS and XLi Time and Frequency Systems from Symmetricom.
        - Supports serial communications.
        - Includes option to poll for GPS position.
    - Applied Micro System Dual SVP Logger (new)
        - Added new Applied Micro System Dual SVP Logger device under the SOUND VELOCITY device group.
        - Supports serial communications.
        - Supports 1 or 2 Applied Micro Systems SVP units.
        - Monitors two simultaneous SVP casts to ensure consistent results, reporting any detected discrepancies.
        - Display values from both castes side by side in the terminal tab.

v3.9.1 April 12, 2010

- Devices
    - OCTANS FOG (new)
        - Added new OCTANS FOG device under the GYRO device group.
        - Supports serial and TCP/IP communications.
        - Supports the OCTANS STD 1 message group or operator selected messages from this message set.
        - Supports HEADING, ATTITUDE and INERTIAL (new) data items.

v3.9.0 March 26, 2010

- Smart Remotes
    - Added the option to synchronize the Smart Remote WinFrog time to the Master WinFrog time, configurable at the Smart Remote.
    - Added the option to synchronize the Smart Remote PC time to the Master WinFrog time, configurable at the Smart Remote.
- Vehicle
    - Waypoints
        - Implemented the option to select a vehicle as the waypoint's icon, i.e. the selected vehicle's shape is drawn for the waypoint. The configuration includes the ability to offset the vehicle shape such that a point other than the vehicle's CRP lies at the waypoint, and to orient the shape to a specific heading. When a vehicle is configured to track a waypoint that uses a vehicle shape for an icon, the required change in heading for the vehicle to align with the shape icon can be displayed in the Vehicle Text window.

- Operator Window features
  - Graphics Window
    - Implemented the option to double-click on a waypoint in the window to access and edit the waypoint.
    - Added click and drag with the left mouse button to zoom in and out.
    - Corrected the drawing of waypoints that fall just outside of the bounds of the window to draw that portion of the respective icon and rings that lie within the window.
    - Added the Zoom Rectangle option to the window's right mouse pop-up menu.
    - Refined the grouping and exclusivity of the graphic toolbar buttons to improve intuitiveness.
  - Vehicle Text Window
    - Added the option to display the current vehicle fore/aft, port/starboard tracking offsets.
  - GPS QA/QC Window
    - Added window type to the window title.
- Data Logging
  - Automatic Event Files (*.DAT)
    - Corrected the re-loading of event files to load the data for all vehicles present, not just the first 10.
    - Corrected the re-loading of vehicle and offset names longer than 19 characters to load the complete name.
    - Eliminated requirement to select the Event vehicle in a Vehicle Text window before being able to setup eventing from the main menu.
    - Corrected the error of writing of the previous setup to the audit trail file when setting up the eventing.
  - Manual Event Files (*.LOG)
    - Added the saving and loading of the cable count, tension and speed for all five (5) channels to the LOG file.
    - Corrected the re-loading of vehicle and offset names longer than 19 characters to load the complete name.
- Devices
  - GENERIC Input
    - Added support for latitude and longitude hemisphere fields, e.g. "**N**, 3200.00,**W**,11700.00"
    - Implemented the capability to ignore leading characters in the data field, for Delimited or Fixed Length format messages, e.g. ",**H**123.5,".
    - Corrected the detection and checking of the header term when using Fixed Length format. As a result of this error, previously a Fixed Length message could not use the header feature.
  - NMEA Output
    - Implemented the option to use either UTC time for output messages or local WinFrog time. Note that this is dependent upon WinFrog being synchronized to UTC.

    - USBL – Sonardyne
        - Add the option to apply a correction to the heading obtained from the USBL device before it is passed to the vehicle for use in the application of the USBL data.
    - USBL – Simrad 400
        - Add the option to apply a correction to the heading obtained from the USBL device before it is passed to the vehicle for use in the application of the USBL data.
- Utilities
    - Position Averaging
        - Added the option to configure the data collection based on the total number of fixes to collect and the respective fix interval.
        - Implemented automatic recalculation of mean position when data is removed from or added to the solution.
        - Added the option to save the average position to the Working Waypoint file.
    - KP/Coordinate Conversion
        - Added the option to enter and display the along line information using station format, e.g. 12+25.9 ft.
- General
    - Corrected an initialization issue for working files including lines, waypoints, events and manual events that could result in WinFrog to crash.