

### **Changelog V6.8 => V6.9:**

- ✚ Impacts: all networks, all programs.
- ✚ Improved memory management (LRU frames).
- ✚ Improved error reporting concerning SIDEs (Offline mode).
- ✚ Improved display (blank lines suppressed, messages colors ).
- ✚ Improved trial configuration: relative paths authorized.
- ✚ Improved hardware compatibility with multi-core systems.
- ✚ Improved general parameters: AC Type displayed in hexadecimal for A400M.
- ✚ Improved interactive mode verifications: error reported in case of two consecutive hold.

### **Changelog V6.7 => V6.8:**

- ✚ Impacts: all networks, all programs
- ✚ Improved performances: display optimisation.
- ✚ Improved performances in interactive mode: optimisation of decoding operations.

### **Changelog V6.6 => V6.7:**

- ✚ Impacts: all networks, all programs
- ✚ Improvement of interactive mode: Acceptance of DOWNLOAD commands after a WAIT.

### **Changelog V6.5 => V6.6:**

- ✚ Impacts: all networks, all programs
- ✚ Improved hardware compliance: driver winpcap 4.0 included in setup and CD.
- ✚ Improved performances: optimisation of XML operations for interactive commands decoding.
- ✚ Improved interactive mode: add error reporting in case of incompliant SIDE parameter.

### **Changelog V6.4 => V6.5:**

- ✚ Impacts: all networks, all programs
- ✚ Improved interactive mode performances: Priority to fast acknowledgement following to commands received (rather than traffic display)
- ✚ Improved interactive mode performances: Lower priority for display (panels refreshment).
- ✚ Improved interactive mode: Ending of an unsuccessful download operation improved.
- ✚ Improved pause feature: Traffic pause feature works for interactive traffic panel too.
- ✚ Improved replay function: Corrected dysfunction with large messages.

### **Changelog V6.3 => V6.4:**

- ✚ Impacts: all networks, all programs
- ✚ Improved interactive mode display in cases when objects are sent by the BITE in interactive commands and different INDEX elements are specified in the XML file.
- ✚ Improved range management (for curves) when different SIDE elements are specified in the XML file.

### **Changelog V6.2 => V6.3:**

- ✚ Impacts: all networks, all programs
- ✚ Improved LRU (SID) decoding: increased EBTF limitation for maximum number of identifiers: 50 (instead of 10) and number of LRUs: 50 (instead of 16).
- ✚ Improved Failure Message decoding: increased limitation for maximum complementary data length to 54 (instead of 49) for A400M program.

### **Changelog V6.1 => V6.2:**

- ✚ Impacts: all networks, all programs
- ✚ Corrected incompatibilities of interactive mode with some runtime environments.
- ✚ Improved error reporting about time evolution between failure appearance and disappearance and robustness.

### **Changelog V6.0 => V6.1:**

- ✚ Impacts: Arinc 429, all programs
- ✚ Corrected LRU decoding: length information not included in LRU messages for A429 network.

### **Changelog V5.1.0 => V6.0:**

- ✚ Impacts: all networks and programs.
- ✚ New function: Failure tracking.
- ✚ New function: Filters on failure messages.
- ✚ New function: Failure appearance/disappearance events log.
- ✚ New optional feature: communication with BITE type 2.
- ✚ Improved EBTF size in memory.
- ✚ Improved EBTF software protection: new USB Key for optional features.
- ✚ Improved INI configuration file: Added display format configuration for FMC Code and LRU number (Decimal/Hexa)
- ✚ Improved adaptation to CMS: Suppressed verification of function and step identifiers in BITE status 2 commands (after START).
- ✚ Improved error reporting: Added the detection of minor error in case message time moved between failure appearance and disappearance.
- ✚ Improved HMI: corrected probability decoding (<= instead of <)
- ✚ New function: Added checks (and warnings if necessary) for RAM and free disk space.
- ✚ Improved A429 BDS label configuration file: added controls and BITE type 2 information
- ✚ Upgraded driver supported by EBTF for A429 AIM card.
- ✚ Improved reverse video data field selection for Test Result message in Failure message decoding window.
- ✚ Improved HMI: improved availability of trial edition.
- ✚ Improved Arinc 429 configuration: added controls on ARINC 429 configuration file.
- ✚ BITE type 2: Specific interactive mode dynamics and management of a discrete output for the start.
- ✚ BITE type 2: Suppression of transmissions.
- ✚ BITE type 2: Error management if the 429 card is not PCMCIA.

### **Changelog V5.0.0 => V5.1.0:**

- ✚ Impacts: A400M, A380, A429.
- ✚ Added test of parity bit for A429 network messages.
- ✚ Added multi-bite function for A429 network
- ✚ Improved HMI: Trial edition button is accessible after an error message display.
- ✚ Improved Arinc 429 communication - RX and TX - in Low Speed mode.
- ✚ Improved HMI: INI file and trial file management.
- ✚ New function HMI: Save trace (or traces) from display windows.

### **Changelog V4.0.0 => V5.0.0 (beta):**

- ✚ Impacts: A400M, A380, A429.
- ✚ Added A429 feature for A380 and A400M programs.

- # Added record/replay functions for A429 network, replay available with or without A429 card.
- # Added record of download in interactive mode (.dwn file)
- # Improved INI configuration file: Added LRU index value in EBTF.ini
- # Improved the performance of EBTF interactive mode browser.
- # Improved HMI: Trial modification and edition.
- # Improved A400M display: Good Health messages decoding.

### **Changelog V3.1.0 => V4.0.0:**

- # Added A400M feature.
- # Added program selection function: panel, menu, and configuration file.
- # Suppressed in A400M mode 'Automatic Safety Test' and 'Safety Test Counter' parameters decoding in data from bite panel.
- # Suppressed in A400M mode automatic safety tests.
- # Modified in A400M mode General Parameters configuration for Flight Number and City Pair parameters (CMS Information) with addition of dashes and FS settings.
- # Suppressed in A400M mode 'FDE Event', 'FDCE Type', 'Flight deck or cabin effect code' and 'Time Code Area' parameters decodings and associated controls.
- # Modified in A400M mode failure messages identifiers and failure appearance time.
- # Improved HMI indicator for Offline/Online mode.
- # Improved INI configuration file: add missing sections or values.

### **Changelog V3.0.0 => V3.1.0:**

- # Improved interactive mode: Added the management of INDEX elements in the XML file, taking into account INDEX information sent in System Identification data (LRU IDs).
- # Improved 'Pause' function: messages are no more lost during the 'Pause' period.
- # Improved determinism of interactive tests: between two interactive tests, the memorization of objects and values received in DISPLAY commands is reinitialized.
- # Improved normal mode correlation: the failure identifiers can be selected in EBTF configuration file.
- # Suppressed additional '?' characters observed in interactive mode browser (characters observed with specific system configuration).
- # Improved Test Results decoding display: added information (tab and report) in the Failure Message decoding.
- # Improved precision about the faulty messages in error reporting, in particular added Fault Message Code.
- # Corrected coding of the City Pair parameter (general parameter).
- # Improved robustness concerning installation directory name: EBTF installation folder path containing '.' are accepted.
- # Improved XML configuration file management: more flexibility with comments.
- # Improved engineering data decoding: decoding enabled/disabled in configuration file.
- # Improved default time value display in failure message decoding 'Print Area'.
- # Suppressed additional XML attribute display in interactive command decoding panel.
- # Suppressed 'Continue' button in interactive mode functions starting menu.
- # Corrected status value in the decoding of a DISPLAY command with VARTEXT object.
- # Improved robustness of the LRU decoding
- # Improved HMI: accessibility of functions in menus, indicator normal/interactive mode refresh, visibility of raw data frame, traffic clean.
- # Corrected 'CMS Command' parameter display (inversion of DC1 and DC2) in the 'General Parameters dynamic configuration' window.

## **Changelog V2.3.6 => V3.0.0:**

- # Improved complementary data decoding: new complementary data decoding (Class 4 Group FMC), and improvement of reverse video.
- # Added functionality for sending an ABORT command (with the ABORT button) even in normal mode
- # Improved control and added error reporting for failure messages: FM with LRU status 'Failed' but LRU Code or Decoding Key set to 0, or FM with a failure class set to '7'(unauthorized value).
- # Added controls and error reporting on the processing of total count number in test results.
- # Improved the decoding of DOT sub-objects in DISPLAY commands (CHART object): using X RANGE ET Y RANGE values.
- # Improved traffic file names management so that several record files can automatically be created during the same EBTF session.
- # Improved Ethernet cards management: unconfigured cards and several cards having the same name.
- # Improved XSL files and upgraded XSL version from WD-XSL to XSLT (XSL Transformations)
- # Managed case when engineering data do not include the four mandatory words defined in ABD0100 1.4.
- # Improved "Pause" icon, so that the operator can see when traffic is suspended or not.
- # Improved HMI design
- # Improved LRU error message display (if necessary message split into several lines)
- # Set default side value for interactive communication to 0.
- # Improved side management in the decoding of DISPLAY commands with QUESTION objects.
- # Improved side management in the display (interactive mode) of objects (in particular PARAMLIST, QUESTION, and REPLY).
- # Improved side management in functions display (starting interactive mode).
- # Corrected transmission on the hazardous port in the cases of retransmissions.
- # Inverted R/S BITE decoding formats (INI file).
- # Corrected BITE status decoding display ('BITE status ' instead of 'CMS status ').

## **Changelog V2.3.5 => V2.3.6:**

- # Improved performances in replay mode: Large traffic files can be replayed directly: Thus all the traffic flows, and 'Pause' button can be used to analyse a message or focus on a part of the traffic.

## **Changelog V2.3.4 => V2.3.5:**

- # Corrected problem in coding of general parameters

## **Changelog V2.3.3.1 => V2.3.4:**

- # Corrected decoding of X/Y data in curve sub-objects

## **Changelog V2.3.2 => V2.3.3.1:**

- # Improved robustness of the decoding function of engineering data included in complementary data (not only 4 words of independent data).
- # Corrected false blue colour font displaying for some Failure message.
- # Corrected Interactive Automaton accept consecutive WAIT step.

- ✚ Corrected CMS Status response with value 10, status word 1 and 2 have now correct values.

### **Changelog V2.3.1 => V2.3.2:**

- ✚ Improved checking of Test Result message.
- ✚ Improved performance for the processing of XML Objects and Sub Objects.
- ✚ Corrected memory violation access on reception of a DISPLAY with numerous Objects.
- ✚ Corrected reverse video data field selection for Test Result message in Failure message decoding windows.
- ✚ Corrected the flush of Failure message reception FIFO for Interactive Test Result DISPLAY step.
- ✚ Corrected interactive response on false Test Result reception.

### **Changelog V2.3.0.1 => V2.3.1:**

- ✚ Improved checking of BITE STATUS data for the launch of “Automatic Safety Test.
- ✚ Corrected the missing report of data errors on Replay Offline.
- ✚ Corrected wrong decoding of Numbers of Identifiers for LRU/System identification.
- ✚ Corrected checking of validity for accused relative probability associated with the Failed Item (LRU or I/O Failed) reported in the Failure message.
- ✚ Corrected checking of Link 1-2 and 2-3 validity between accused relative probabilities and Failed Items.
- ✚ Corrected wrong displaying for IMA Area for an IMA Resource BITE type.
- ✚ Improved checking of I/O Pin, Connector and LRU configuration files, with loading errors reported in Log file.

### **Changelog V2.2 => V2.3:**

- ✚ Added USB Key licensing protection for the EBTF software.
- ✚ Added selection of Ethernet card for computer with multiple cards.
- ✚ Added Open-World Ethernet communication feature only for licence which has purchased this option.
- ✚ Added raw data of Interactive message in Interactive Decoding window.
- ✚ Added decoding in Plain English text for FDCE Type in the Failure Message decoding window.
- ✚ Modified now displaying of Fault message code in decimal value in the Failure Message decoding window.
- ✚ Corrected the selection of side parameter for Automatic Interactive Safety Test.
- ✚ Corrected the length field of Interactive degradation frame.
- ✚ Corrected WAIT Timer margin (+20%), and No operator entry timeout (11 min.)
- ✚ Corrected wrong decoding of engineering data in complementary area for Failure message decoding window.
- ✚ Corrected wrong behaviour of Interactive Automaton on reception of command without Object after a RESULT step.
- ✚ Corrected infinite NEXT sending when displayed XML page contains more than 6 \_QUESTION\_REPLY object.
- ✚ Corrected XML interactive browser freezes when display a \_CAUTION object with missing attribute “link”.
- ✚ Corrected XML Browser display freezes when the user pushed the continue button during an unfinished DOWNLOAD sequence.
- ✚ Corrected wrong displaying for raw frame of LRU id tab sheet.
- ✚ Corrected wrong displaying for LRU Number field of LRU id tab sheet.

## Changelog V2.1 => V2.2:

- # Added decoding of the Plain English Text for Complementary Data.
- # Added double-click on every cell of Normal or Interactive grid calls the decoding windows of the message.
- # Improved the function to reassembly fragmented messages.
- # Corrected the false error report "LRU4\_without\_key".
- # Corrected the interactive communication freezing after a push on button END Test Result.
- # Corrected the bug "Invalid Handle, error 1400".
- # Corrected the application crash when receive a download command with 2200 bytes length.
- # Corrected the incoherent Appearance Time.
- # Corrected wrong decoding of hexadecimal complementary data.
- # Corrected wrong format of AIRCRAFT\_CONFIGURATION sampling message.
- # Corrected the wrong refresh for some fields of Failure message decoding windows.
- # Corrected the Acknowledgement for the different type of Bite Status message in Interactive Mode.