

# **RELEASE NOTES**

Version 19.1.0

Date:8. November 2018



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	<b>Imprint</b>	

## Imprint

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## **Version 19.1.0**

January 2019

### **Bug Fixes**

- improved support for display scaling and custom font sizes
- block selection with shift key
- save block selection to file

## **Version 18.1.0**

June 2018

### **Enhancements**

#### **General**

- upgraded GUI framework (Qt5)

### **Bug Fixes**

- Avoid out of memory exception when copying bits from bit display to clipboard
- bit display was sometimes not refreshed after font size change
- fix scrollbar in bit display on font size changes
- offset value was limited after unpausing or changing the channel number

## **Version 17.2.0**

December 2017

### **Enhancements**

#### **General**

- support for Codemeter licensing

### **Bug Fixes**

#### **General**

- workflow parameters could not be changed

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### **Bit display**

- correctly resize axis labeling when zooming

### **Cross correlation**

- in case of large bit files significantly reduce memory footprint and time to display results

## **Version 3.1.0**

July 2016

## **Enhancements**

### **General**

- availability of 64 bit version
- significantly reduced overall memory consumption
- maximum size of binary files to load increased to 100 MB
- work flow history is saved to hard disk and not to RAM
- Drag&Drop for .rec files

### **Functions**

- replaced some builtin functions with user functions (DDL decoder)
- saving as PROCEED .rec file (for DecoderDebugger): bits per symbol, number of channels and symbol rate can be parametrized
- dialog for correlation overhauled
- Search LFSR improved: show in bit display only bits for selected polynomial

### **Displays**

- increased performance of all views
- added parameter offset to view *Map Bits to Text*

## **Bugfixes**

### **General**

- overall stability increased
- keep burst information as long as possible, i.e. as long as bit stream is not modified
- work flow handling made more consistent

### **Functions**

- fixed BitstreamXOR
- interleaving did not work reliable
- SendTo External Tool: bit stream was incorrect

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- avoid overflow in case of large bit streams when using DDL decoder

### **Displays**

- when opening new bit display after changes to a bit stream were carried out then keep display parameters (offset, circulation length, font etc.)
- values were not sorted correctly in result table for LFSR search
- if bits were selected in reverse order in bit display then tagging did not work as expected
- save bits selected in bit display (context menu): bit stream was incorrect

## **Version 2.3.0**

July 2014

### **Bugfixes**

#### **Common**

- Several bug fixes

## **Version 2.2.2**

16 May 2014

### **Bugfixes**

#### **Common**

- Bugfix: setup did not work on 64 bit Windows

## **Version 2.2.1**

15 January 2014

### **Bugfixes**

#### **Common**

- Bugfix: Licensing

## **Version 2.2.0**

14 June 2013

### **Enhancements**

#### **Common**

- Windows 7 version
- Adaptions for multi user functions
- Adaptions for OEM Versions
- New Setup for automatic software installation

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## **Version 2.1.0**

02 February 2012

### **Enhancements**

#### **Common**

- Read and write binary files
- Interface to Hex Editor Neo included
- User function for signature search included

## **Version 2.0.0**

13 January 2010

### **Enhancements**

#### **Common**

- New workflow functionality with history tree view.
- Porting from Qt 3.3.8 to Qt 4.6.0
- Decoder editor inclusion.
- Gui design improvement.

#### **Bit Display**

- Multiple bit views.
- Scrolling with up, down, left and right keys.

#### **BSP Functions**

- User functions improvement.
- New xor view to show result between two bitstreams.
- New diff view to show difference between two bitstreams.

## **Version 1.5.1**

12 Nov 2009

### **Enhancements**

#### **Main Functions**

- Version update to be compatible with newest compiler version.
- French localisation.

## **Version 1.5.0**

04 Mar 2009



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## Enhancements

### BSP Functions

- Decoders can be also applied on bit streams in .txt format.
- A cut tool for over sized .rec files is introduced.
- Marker parameters are automatically transferred into an open function dialog.

### Bit display

- A line by line selection is introduced for marking.
- Bit streams can be saved in .rec file format.
- User defined decoder can mark bits.
- User defined decoder can give out a bit stream.

### Measurement display

- User defined decoder can plot in measurement display.

### Main window

- A new menu item is introduced for user defined functions (analysis decoder).
- A user defined input parameter dialog is introduced for user defined functions.
- User defined decoder can control a progress bar.

## Bugfixes

### Main window

- Bugfix 3223: Removed cut out "cmd" from file name.
- Bugfix 3224: "Whats this" help is translated into English for bit display.

## Version 1.2.5

17 Sep 2008

## Bugfixes

### BSP Functions

- Bugfix 1471: Changed to correct sorting of numbers in the statistic table.
- Bugfix 2903: The size policy of search pattern text field is changed. The width of search pattern dialog is limited to screen width now.
- Bugfix 3185: Changed the display function dialog to prevent showing an empty content after reopening.

### Text display

- Bugfix 2392: Added a verification of minimum and maximum variable symbol length.

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### Bit display

- Bugfix 1507: A flag is introduced to remember the previous “Show quality” checkbox status in white/black display type.
- Bugfix 1517: A flag is introduced to remember the display type if “Bits to code symbols” checkbox is activated.
- Bugfix 2905: A limitation of “.rec” file size was introduced. The limit for block length is 32768 and the limit for bit length is 1000000. Files that exceed the limitation are cut off.
- Bugfix: A size checking for “burst or pause” vector is added.

### Measurement display

- Bugfix 1529: Changed column name from “#” to “Nmb. Occur.”

### Main window

- Bugfix 2875: Bit display parameter can be open.
- Bugfix 3178: Correction in “Attributes & Statistics” display (“File attributes”).
- Bugfix 3179: Changed function to build a correct recent file history.
- Bugfix 3182: Removed a null pointer exception to prevent a crash during saving an empty file.

### Measurement display

- Bugfix 3183: Changed that code table removes the internal data structure before new symbols are imported.

## Version 1.2.1

11 July 2008

## Bugfixes

### Common

- Bugfix 3051: Code table is not editable for value = 0.

## Version 1.2.0

17 December 2008

## Bugfixes

### Common

- Bugfix 2877: Crashes when opening empty file (Empty.rec).

### Bit display

- Some bug fixing on bit display.

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## Version 1.1.5 BUILD 245

16 February 2006

### Enhancements

#### Interface

- Measurement display can not be opened directly.
- New menu Extras which allows for managing code tables and decoders
- Help menu follows new standard
- Help menu now allows for opening the operation manual directly
- New text display to show bits mapped to text using a code table or showing outputs of the newly integrated decoders.

#### BSP Functions

- New functions deinterleaving and demultiplexing.
- New buttons for mapping bits to text and using decoders.

#### Text display

- The text display is able to display bits or code symbols. A code symbol is a letter or a figure out of a code table; it represents the serialized sequence of bits.
- It is possible to synchronize the text display with the stream currently shown in the bit display.
- In the synchronized mode, the part of the bit stream currently shown in the bit display is send to the text display where it is mapped to text. This function allows for tracking the effects of changes made to the bit stream to the text.
- The text display opens either if you use the mapping bits to text function or if you apply a decoder to the current stream.

### Bugfixes

#### Common

- Bugfix 717: File history is not recovered correct after end of program
- Bugfix 718: BSP offers no possibility to open Operation Manual out of program
- Bugfix 719: BSP crashes if any action is taken on an empty bit display
- Bugfix 721: BSP emits a signal tone after function autocorrelation
- Bugfix 729: V alue of Cross-Hair Cursors are not at the cursors
- Bugfix 1201: BSP should show only one line if a file contains no burst information and is shown in Alignment: Burst
- Bugfix 1202: Change parameter line mode to Parameter Alignment
- Bugfix 1208: Adapt Help Menu to Procitec Standard
- Bugfix 1416: BSP ask if modification to file should be saved, even if the file was saved just before closing BSP.

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- Bugfix 1418: Wrong calculation of circulation length in mode Hex

## **Version 1.1.2 BUILD 186**

18 Mai 2005

## **Enhancements**

### **Interface**

- Easier chose of BSP functions.
- Inclusion of path name in the file history list.
- Improved design of the dock windows.
- Dock windows can be closed by mouse and opened via menu item.
- Menu item Characteristics renamed to Attributes and Statistics.
- New menu item dockwindows included.
- Dialog with function parameters is now dockable.

### **BSP Functions**

- Aggregation of the autocorrelation function with the partial autocorrelation function
- Aggregation of all Recover functions to one function
- Bit length Analysis function was renamed to Run Analysis
- New functions Parity Weight and Frame Statistics included
- Search renamed to Pattern, Search LFSR renamed to LFSR, search polynomial renamed to polynomial.
- The numbers of sequences which have been found by the Pattern function are displayed in the status bar of the BSP.
- Cut has been renamed to delete.
- Pattern function has new option: Search periodically. See the operation manual for details.
- Clear Tags has new parameters: Selection and All. See the operation manual for details.
- Parameter "Apply the function to the whole stream" of the descramble function have been replace by the parameters Selection and All. See the operation manual for details.
- All function parameters which can not be used by the user are greyed.

### **Bit display**

- Improved visualization, flickering was reduced
- Improved design, BSP now works with display resolution of 1024x768 Pts as well as the resolution of 1268x1024 Pts.
- There is no more CTRL + A key accelerator for the Save All function.

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### **Measurement display**

- The actual measurement values of the Cursors are shown in the cursor modes normal and harmonic
- The measurement displays shows the result of the periodical search, see the operation manual for details.
- The parameters of the display have been renamed, the parameter display has got a new design
- The field of the parameter dialog which are not used in the actual cursor mode are grayed.

### **Polynomial and result display**

- The results of the parity and weight and of the Frame statistics function are displayed by this display

## **Bugfixes**

### **Common**

- Bugfix 218: No Procitec logo.
- Bugfix 331: No display of data after change of circulation length.