Introducing FlexPro 2021

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Innovations in FlexPro 2021

- Import Schemes for Binary Data
- State-of-the-Art on Interactive Data Analysis
- New Row Table and Improved Column Table
- The New Control Panels & Controls
- Extended Analysis Object Event Isolation
- The New Rosette Transformation
- The New Option Order Analysis
- And More …

Import Schemes for Binary Data

Save Schemes for Import Settings

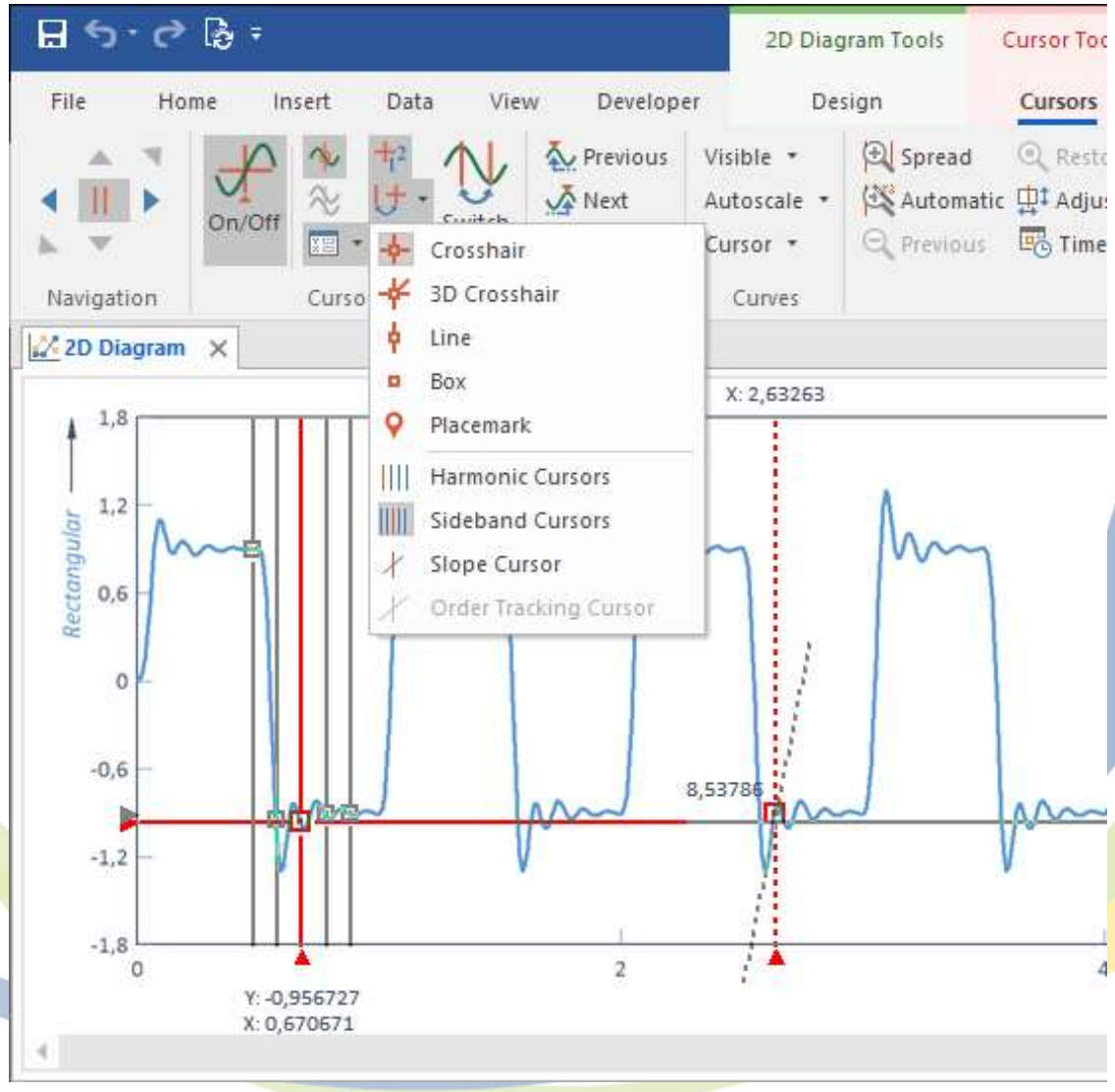
- Channel Selection
- Renaming of Channels
- Assignments of Channel Colors
- Assignments of Units
- Assignments of Calculations

State-of-the-Art on Interactive Data Analysis

Cursor

- Switching Between Different Cursor:
  Crosshairs, 3D Crosshair, Line, Box, Placemark
- Auxiliary Cursor
  Harmonic, Sideband, Slope, Order Analysis Cursor

Cursor


2D Diagram Tools
Cursor Too
File
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Developer
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Cursors
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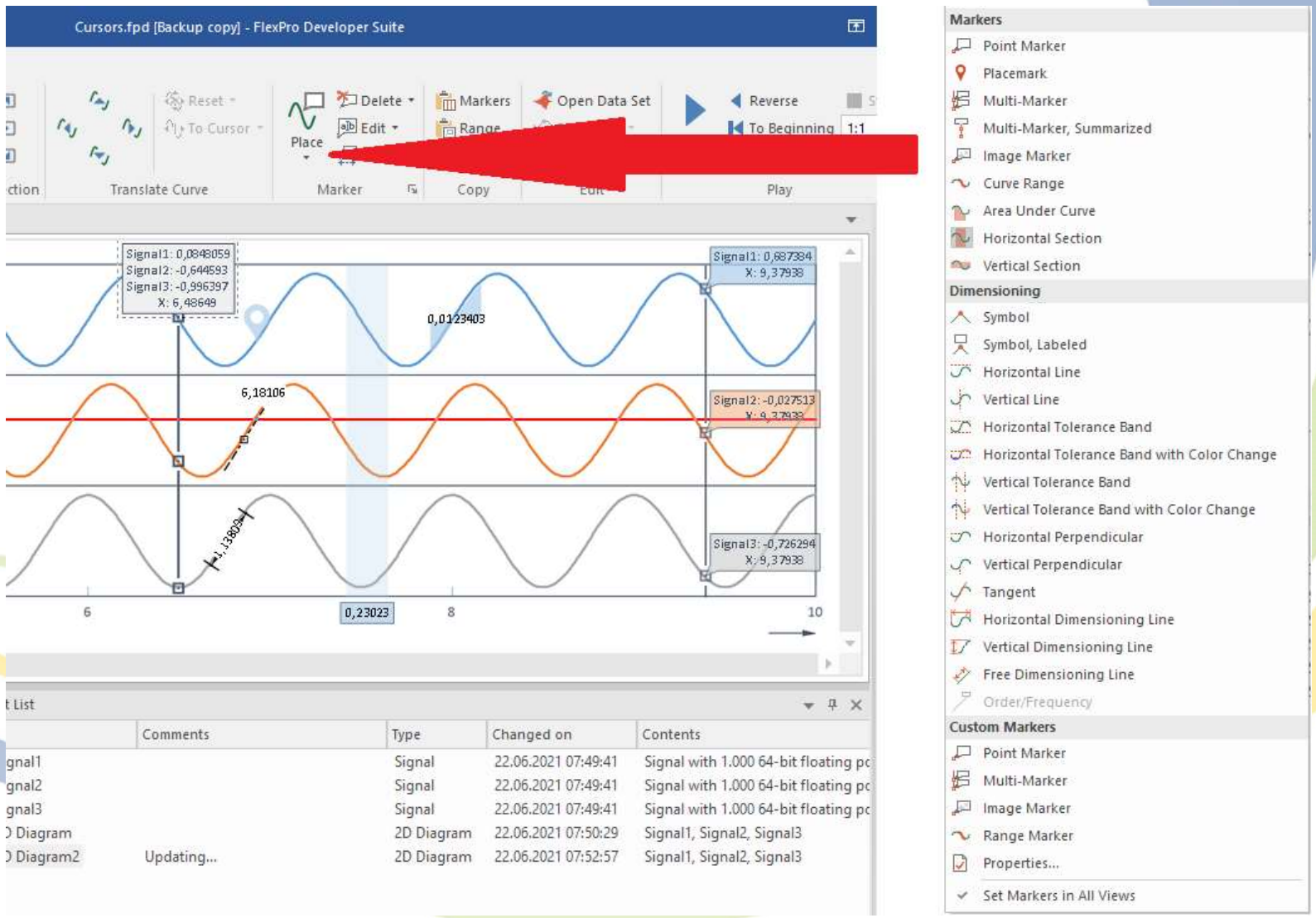
Autoscale
Cursor
Curves
Spread
Automatic
Previous
Crosshair
3D Crosshair
Line
Box
Placemark
Harmonic Cursors
Sideband Cursors
Slope Cursor
Order Tracking Cursor
2D Diagram
X: 2,63263
Rectangular
1,8
1,2
0,6
0
-0,6
-1,2
-1,8
0
2
8,53786
Y: -0,956727
X: 0,670671

State-of-the-Art on Interactive Data Analysis

Cursor Marks

- Combining Marks & Curve Dimensioning to Dimension Marks
- Extension of Marks by Placemark, Multiple Mark
- Dimension Marks
- User-Defined Marks
- Reading out Markers using FPScript

Cursor Marks



The New Row Table and Improved Column Table

New Row Table

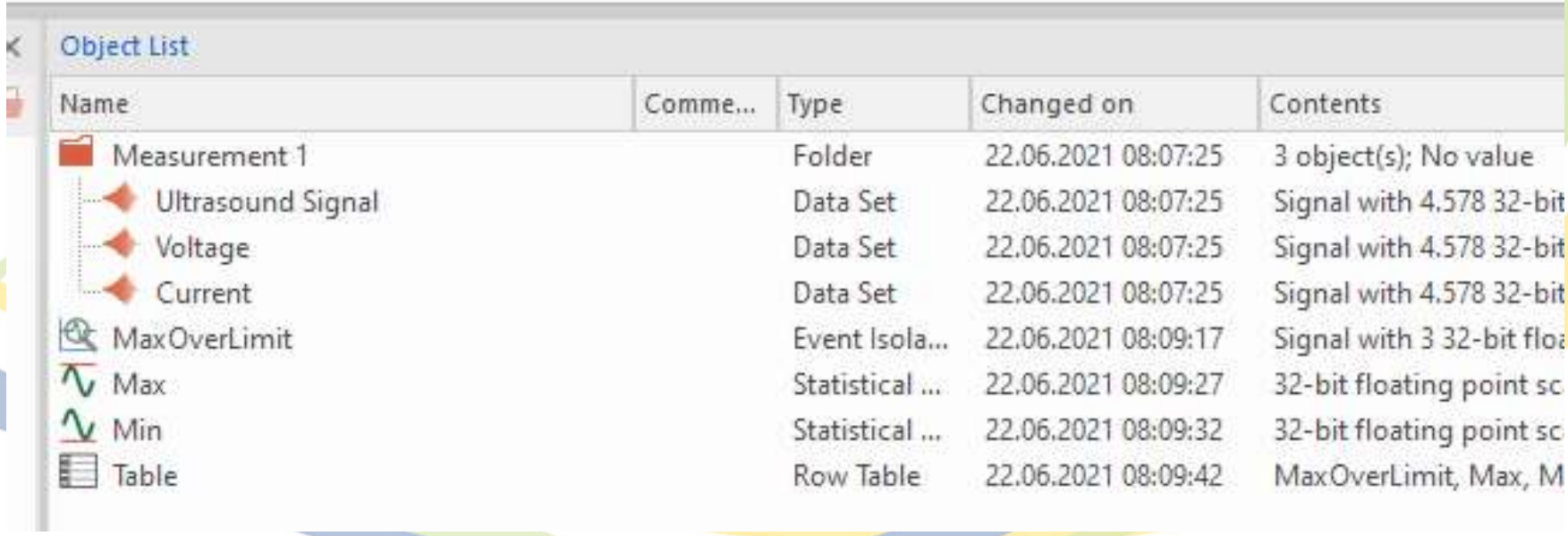
- When Cell Table Too Static
- Functionality Like Column Table
- Convertible to Column Table

Improvements Column Table

- Various pagination modes for larger amounts of data
- Arbitrary font angles
- Line wrapping of larger texts

New Row Table

No.	1	2	3
Time [s]	2,45971	2,49359	2,5293
MaxOverLimit [V]	0,232239	0,240784	0,233765
Max [V]	0,240784		
Min [V]	-0,219727		

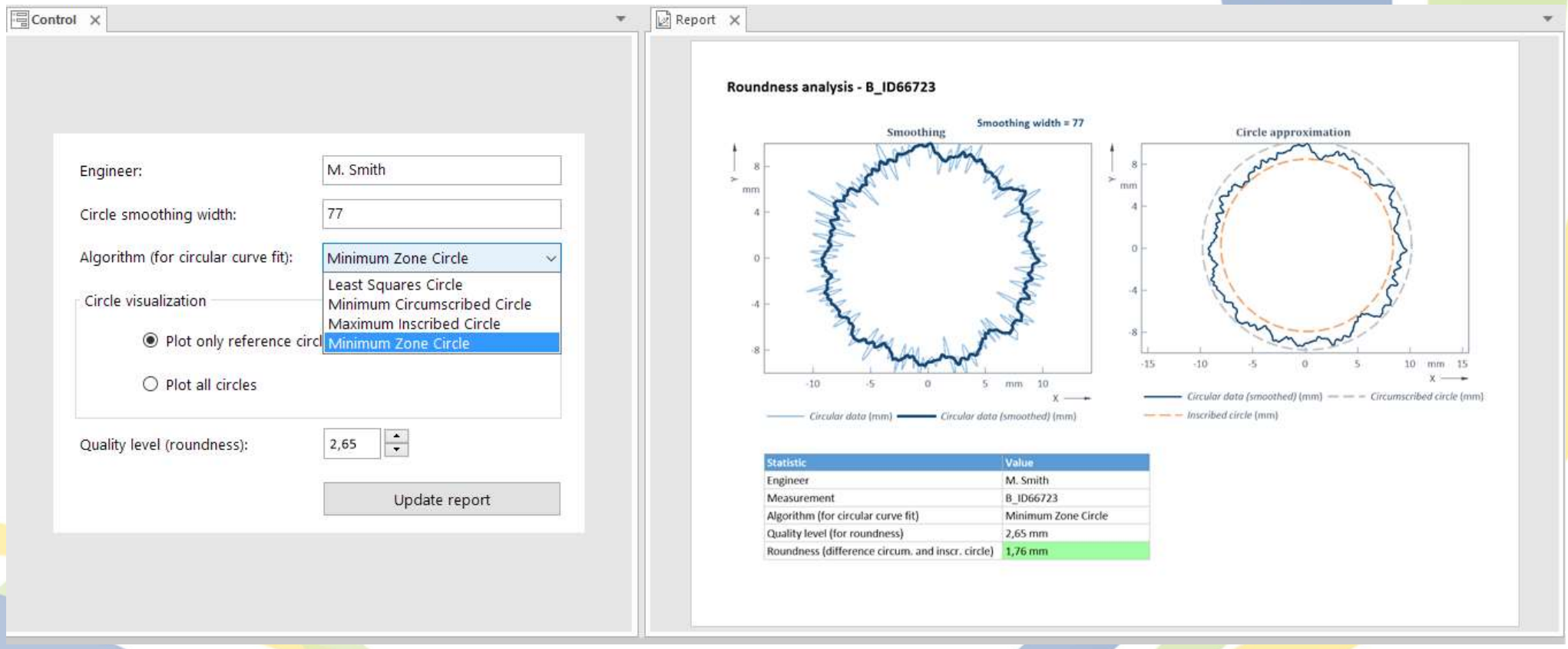


The New Control Panels & Controls

Interactive Evaluations

- Application
  - Cockpit e. g. for Condition Monitoring Tasks in Wind Parks, etc.
  - Report e. g. interactive Report for unexperienced FlexPro Users
- Function
  - Control panels as a separate object or embedded in documents, worksheets, tables, etc.
  - Controls (e.g. text fields, buttons or list boxes) allow user input and executable VBA macros
  - Controls operated by user and used in control panels, documents, worksheets, tables, etc.

The New Control Panels & Control Elements



Extended Analysis Object Event Isolation

Time Filter Analysis Object Now Part of the Event Isolation

- Searching for periodic time segments in calendar time
- Link individual search criteria, as hour in the day or day of the week

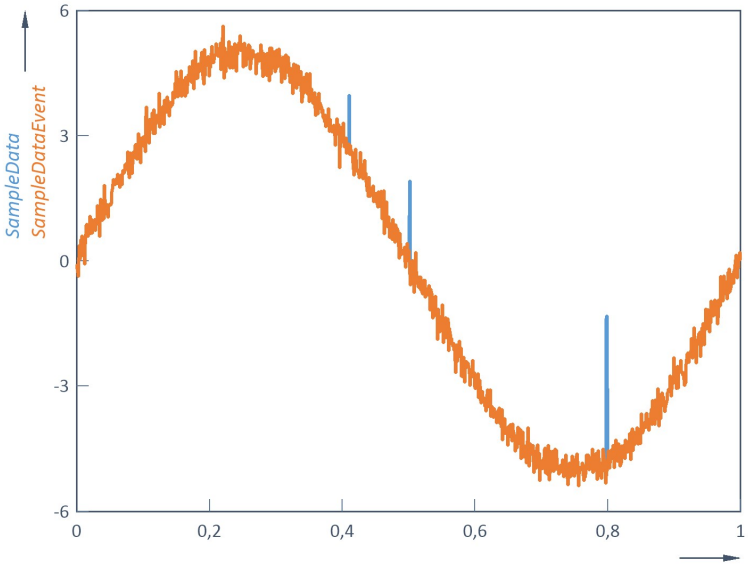
New Spike Detection

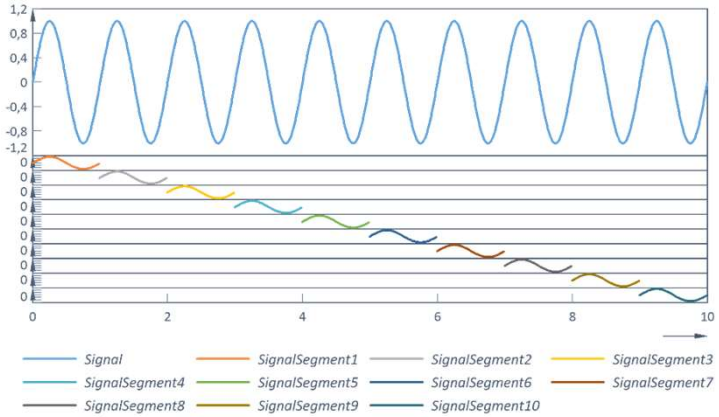
- Search for spikes in signal to interpolate, remove od invalidate

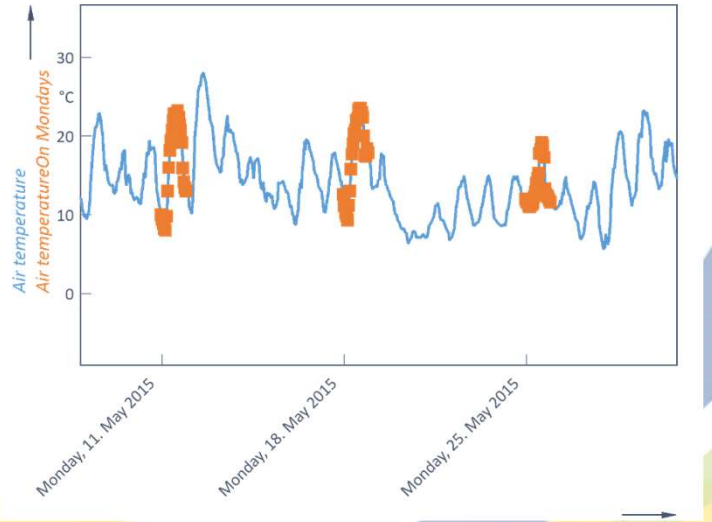
Extended Result Selection

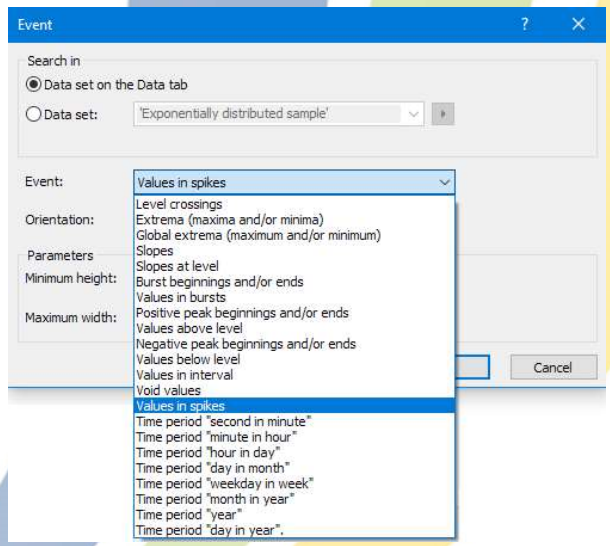
- Number of Elements, Extract segments, Split into Segments

Extended Analysis Object Event Isolation







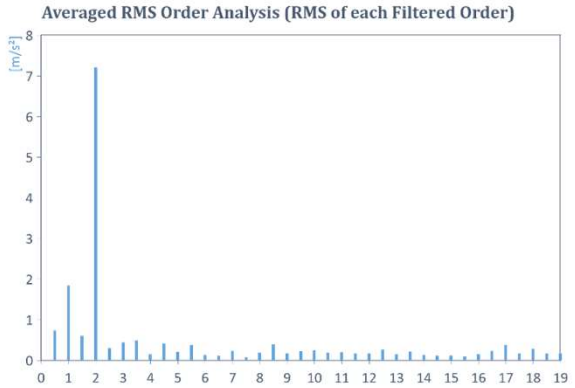


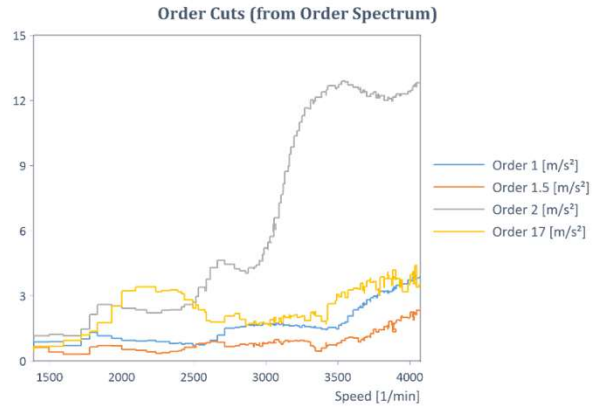
The New Option Order Analysis

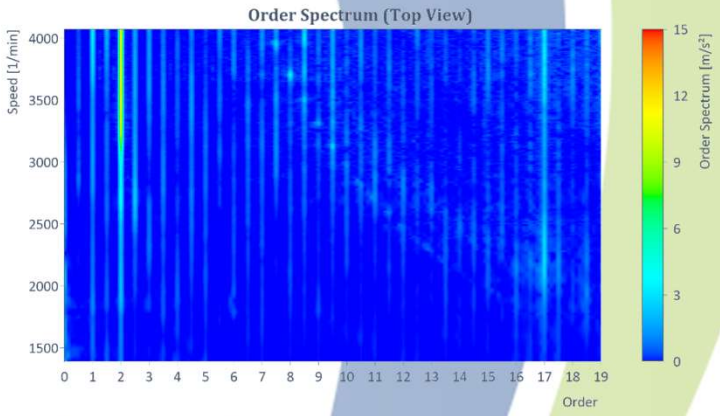
Interactive Evaluations

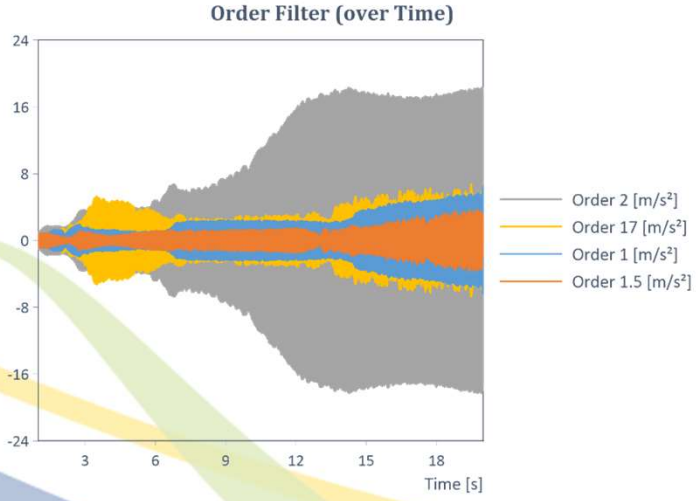
- Order Spectrum
- Averaged Order tracking
- Order Cuts from Order Spectrum
- Order Filter
- Harmonic Filter

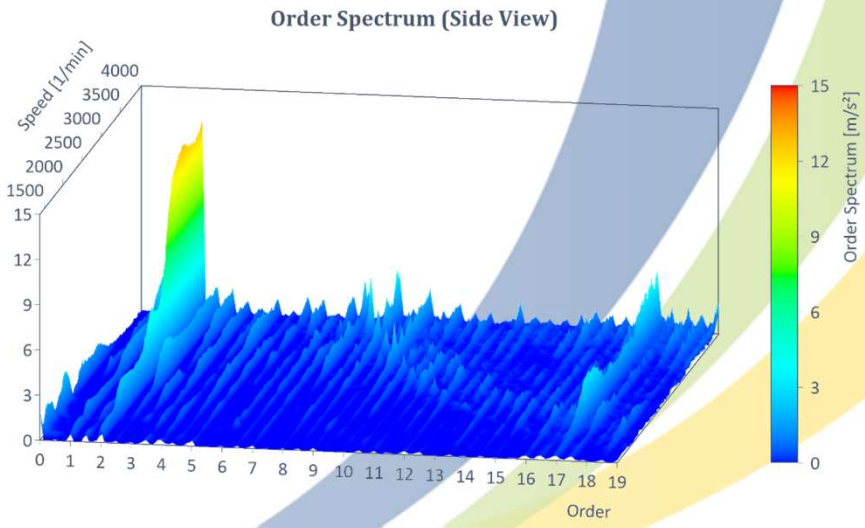
The New Option Order Analysis





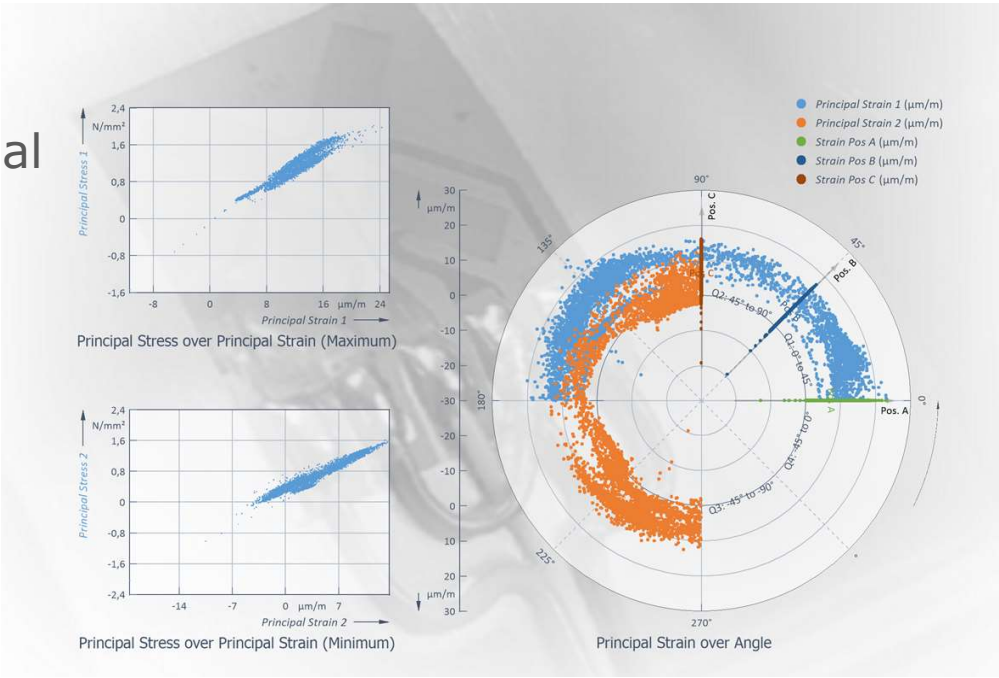




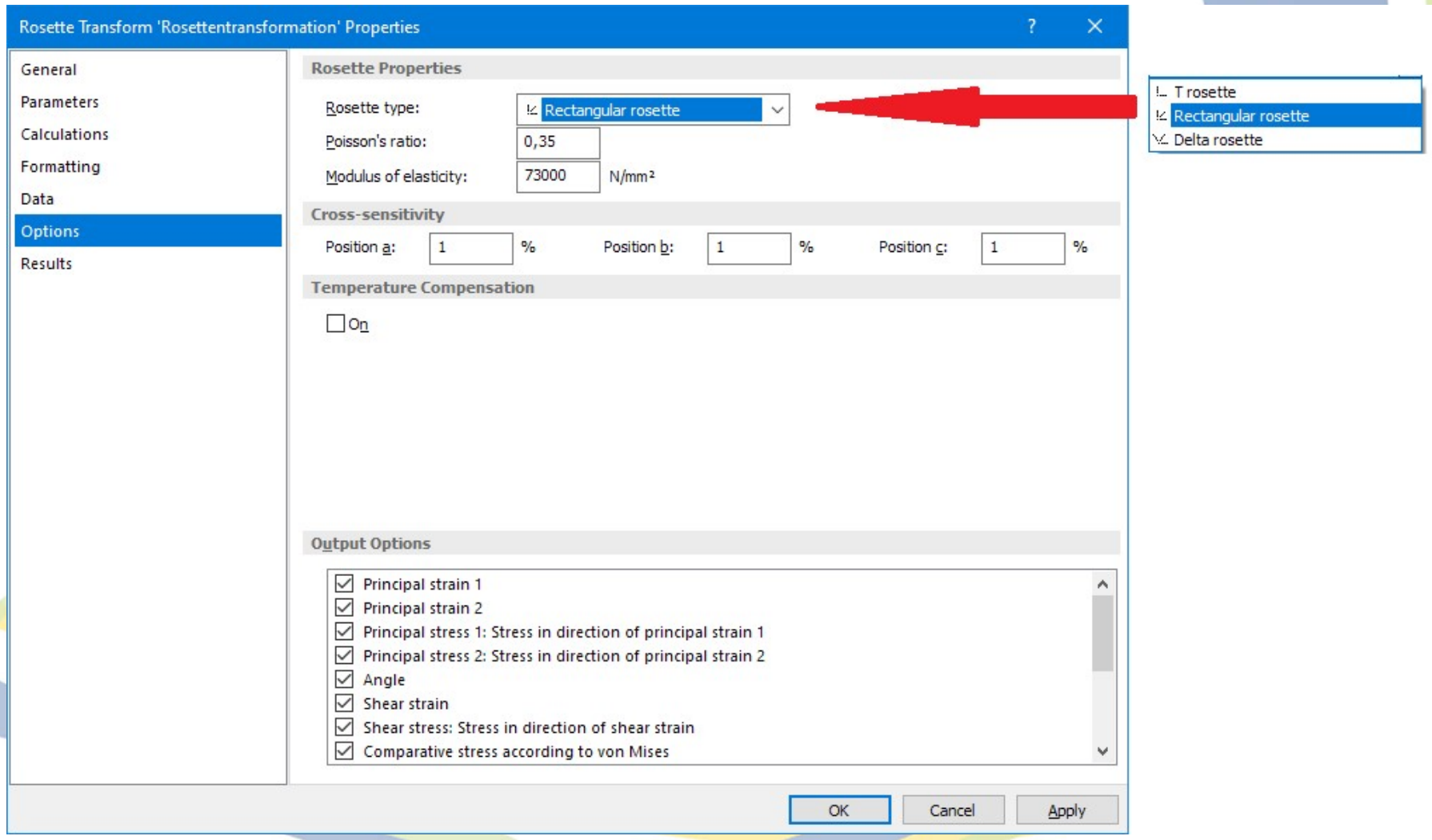


The New Rosette Transformation

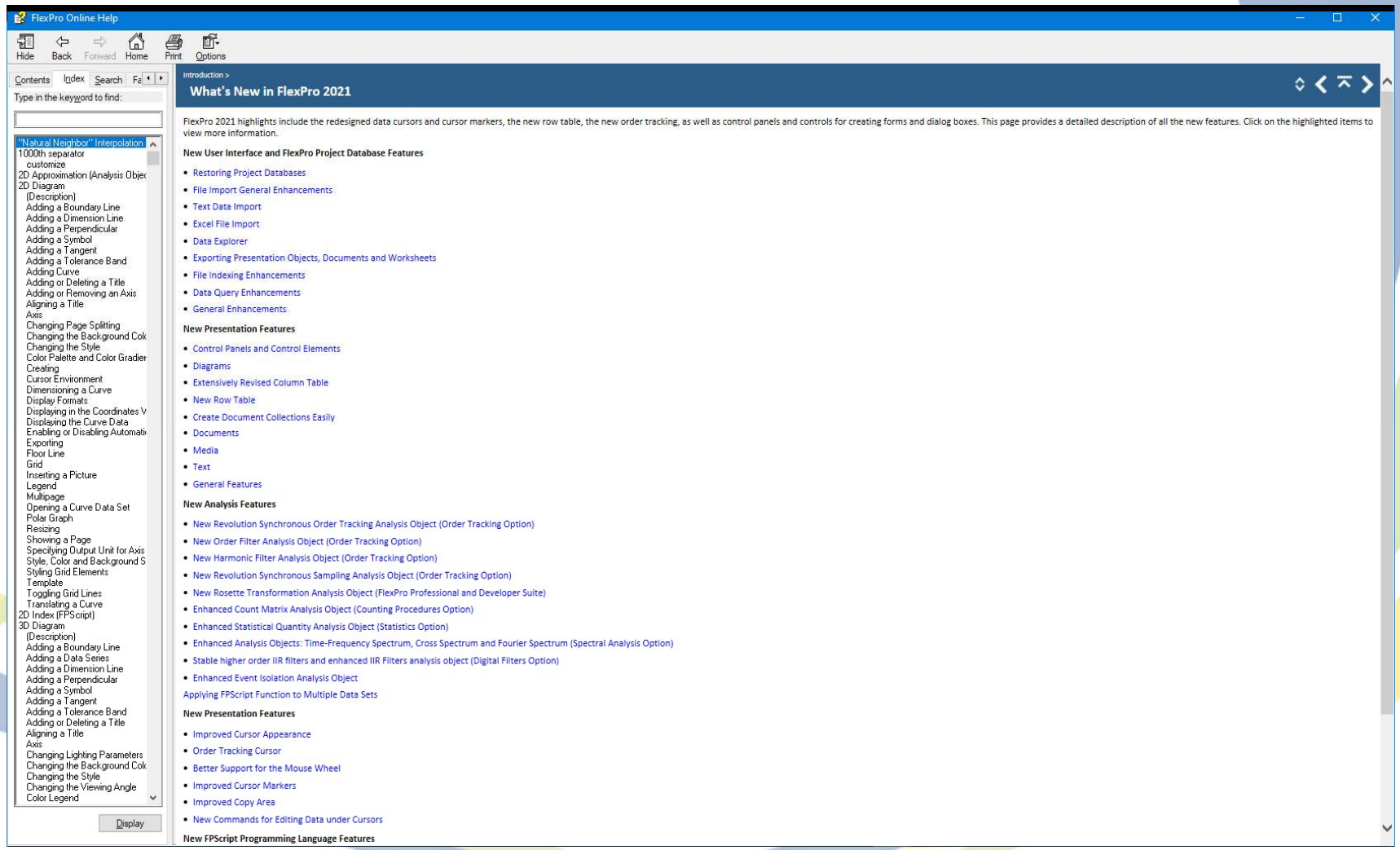
- Calculation of principal stresses or principal strains from 2 or 3 strain gauges
- Cross-Sensitivity
- Temperature compensation



The New Rosette Transformation



And More …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Type in the keyword to find:
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2D Diagram
(Description)
Adding a Boundary Line
Adding a Dimension Line
Adding a Perpendicular
Adding a Symbol
Adding a Tangent
Adding a Tolerance Band
Adding Curve
Adding or Deleting a Title
Adding or Removing an Axis
Aligning a Title
Axis
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Changing the Style
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Cursor Environment
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Display Formats
Displaying in the Coordinates V
Displaying the Curve Data
Enabling or Disabling Automati
Exporting
Floor Line
Grid
Inserting a Picture
Legend
Multipage
Opening a Curve Data Set
Polar Graph
Resizing
Showing a Page
Specifying Output Unit for Axis
Style, Color and Background S
Styling Grid Elements
Template
Toggling Grid Lines
Translating a Curve
2D Index (FPScript)
3D Diagram
(Description)
Adding a Boundary Line
Adding a Data Series
Adding a Dimension Line
Adding a Perpendicular
Adding a Symbol
Adding a Tangent
Adding a Tolerance Band
Adding or Deleting a Title
Aligning a Title
Axis
Changing Lighting Parameters
Changing the Background Colo
Changing the Style
Changing the Viewing Angle
Color Legend
Display
Introduction >
What's New in FlexPro 2021
FlexPro 2021 highlights include the redesigned data cursors and cursor markers, the new row table, the new order tracking, as well as control panels and controls for creating forms and dialog boxes. This page provides a detailed description of all the new features. Click on the highlighted items to view more information.
New User Interface and FlexPro Project Database Features
Restoring Project Databases
File Import General Enhancements
Text Data Import
Excel File Import
Data Explorer
Exporting Presentation Objects, Documents and Worksheets
File Indexing Enhancements
Data Query Enhancements
General Enhancements
New Presentation Features
Control Panels and Control Elements
Diagrams
Extensively Revised Column Table
New Row Table
Create Document Collections Easily
Documents
Media
Text
General Features
New Analysis Features
New Revolution Synchronous Order Tracking Analysis Object (Order Tracking Option)
New Order Filter Analysis Object (Order Tracking Option)
New Harmonic Filter Analysis Object (Order Tracking Option)
New Revolution Synchronous Sampling Analysis Object (Order Tracking Option)
New Rosette Transformation Analysis Object (FlexPro Professional and Developer Suite)
Enhanced Count Matrix Analysis Object (Counting Procedures Option)
Enhanced Statistical Quantity Analysis Object (Statistics Option)
Enhanced Analysis Objects: Time-Frequency Spectrum, Cross Spectrum and Fourier Spectrum (Spectral Analysis Option)
Stable higher order IIR filters and enhanced IIR Filters analysis object (Digital Filters Option)
Enhanced Event Isolation Analysis Object
Applying FPScript Function to Multiple Data Sets
New Presentation Features
Improved Cursor Appearance
Order Tracking Cursor
Better Support for the Mouse Wheel
Improved Cursor Markers
Improved Copy Area
New Commands for Editing Data under Cursors
New FPScript Programming Language Features

Thank you for your attention!

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