

EddyVision 9.1 Release Notes

October 9, 2022

These release notes document all changes from Rev 9.0 to Rev 9.1.

Warning: Files created and/or modified with EddyVision 9.1 may not be readable with earlier versions.

EddyVision 9.1 runs on Windows 7 ,Windows 10 and Windows 11.

1. General

1.1. Added the following App Notes:

- 1.1.1. CICAPP-0019 "IM-II Customer Encoder Calibration"
- 1.1.2. CICAPP-0020 "CoreStar 3D Tube Mapping"
- 1.1.3. CICAPP-0021 "Circular Groups in MakeComp"

1.2. The main additions to this rev is the 3D Mapping software (see **CICAPP-0020**) and circular groups in MakeComp (see **CICAPP-0021**).

1.2.1. They can be used for production work but both are considered experimental and user feedback is greatly appreciated. They are experimental in the sense that they are a best effort and we expect to make significant changes in the future based on user feedback and also have some limitations (see below).

1.2.2. If you edit a component made with a pre 9.1 rev, a backup of the original will be created in the projects **config\system\backup** directory. For example, if you edit **config\system\project.cmp** created with rev 8.1, it will be copied to **config\system\backup\project.cmp** prior to saving any changes.

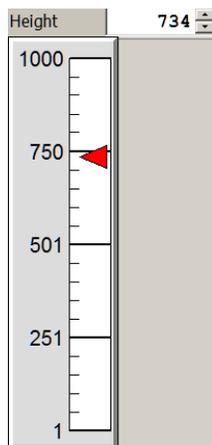
1.2.3. For the circular groups, if you have components that it cannot generate, please contact CoreStar support.

1.2.4. The 3D mapping currently has limitations that will be removed in a later release:

- 1.2.4.1. It can only display about 20,000 defects.
- 1.2.4.2. It does not display defects in the UBEND.
- 1.3. If a dialog was on a monitor that is no longer connected, the software will automatically move it to a visible position.
- 1.4. A bug that caused certain dialogs to close if you typed **Enter** in an edit control has been fixed. For example, if you type an IP address in the OMNI-200 config dialog and type Enter, the dialog will be closed.
- 1.5. In MakeComp and DBMS, when loading a recent project, it will now ask you if you want to save changes prior to doing so and allow you to Cancel the operation.
- 1.6. Many range buttons now support a slide bar. To display it, right-click in the prompt area:



to bring up a slider:



which shows the full range and allows easy movement for buttons with large ranges. You can also left-click prompt area and drag up down to change the value. All the old functions work as always.

Many tables have also been updated to support this. See CICAPP-0020 for examples. If this feature seems useful, we will extend it to other parts of the software.

2. Analysis

2.1. Users may now archive data in the project:

2.1.1. The **ecdata** directory is unchanged, and is the working directory for things such as acquisition.

2.1.2. But you may put old data anywhere under a new **ecdata_archive** directory within the project. Previously, the system would give an error and say all data had to be under **ecdata**.

2.1.3. The caption of dialogs such as the **MESSAGE**, **TLIST**, and **SUMMARY** now show the relative path to the project instead of **ecdata**.

2.2. EddyFi fixes:

2.2.1. If a **FolderDescription.xml** file exists, data files will now display in the correct order in the TLIST. Otherwise, they will display based on create time as in rev 9.0.

2.2.2. If a **.magsetup** file is found, it will be used to obtain correct frequencies for channels.

2.3. Add an option **Inline One-Line Messages** to the **New File** section of the **OPTIONS** dialog to turn message in lining on/off. If off, they will always popup. If on, they will be displayed in the lower messages boxes if they are one line and short enough to fit.

2.4. Added a menu item **Util | Explore Project Directory** to open the project directory in file explorer.

2.5. Canceling out of the the color editor for the **Edit | Lissajous Options** now properly restores the colors if multiple lines were changed.

2.6. Added many features to the **MAP** dialog:

2.6.1. Double-click on a tube to read the file. If there is more than one file in the **TLIST** for that tube, it will read the first one.

2.6.2. Each file in the current cal will display a symbol. The symbol will be blue unless it is the current file in which case it will be red.

2.6.2.1. ● if there are no report entries.

2.6.2.2. ①②③④⑤⑥⑦⑧⑨ to ⑩ if there are one or more report entries. If there are more than 10 entries, it will still show ⑩. Note, the map is tube based as opposed to the TLIST QA field that is file based. For example, if you have two TLIST entries for the same tube, each with 1 report entry, the QA field of each will show 1, but the MAP symbol for that tube will show ②.

2.7. Fixed a bug in auto analysis related to editing the **Category** name.

2.8. Modified report hot keys. If you specify an explicit channel for a hot key in the **DEFECT** dialog, that channel will be used for the report. Otherwise, it will use the channel of the upper left lissajous.

3. Rule Base

3.1. Added tolerances for landmarks of type **BAF** as well as **EP** or **DCP**.

3.2. Added some online help.

3.3. Fixed a few bugs that caused it to crash.

4. DBMS

4.1. Added 3D Tube mapping software (see **CICAPP-0020**)

4.2. Added **Edit | Copy Image** to put a metafile on the clipboard. You can then use the Paste function in a word processor to insert it into a report. This saves a step when creating a report. Also, the metafile is much smaller and better defined than a JPG.

4.3. Added **File | Store | TIFF** option.

4.4. If **Open Stored Image** is enabled in the **OPTIONS** dialog **Options** tab, images stored using the **File | Store** menu will be opened and selected in file explorer. This facilitates pasting them into a report.

4.5. Queries now support parameter lines. Any line beginning with a # is treated as a parameter. This is largely used to specify how to treat the query in the new 3D software.

4.5.1. A generic query parameter is "**# DESC = <legend_desc>**". For example, if you add a line of the form "**#DESC = Hello World**" to the query text, **Hello World** will show up in the legend **DESCRIPTION** field. Otherwise it will function as before and use the query file name. This is only done when

you create a new query. If you directly edit the legend, that value will be used.

4.6. In **QUERY** dialog:

4.6.1. Added menu options such as **Queries | 3D Pcnt** which insert example queries needed by the 3D software.

4.6.2. Added a **Parameters** menu to insert example parameters.

4.7. In **REPAIRS** dialog, added **Pop-A-Plug** and **Welded Driven** to the types.

4.8. In maps in DBMS, MakeComp and elsewhere, you must click near a tube to select it. It will not just show the closest one to the cursor.

4.9. In **PLANS** and **LIST** dialogs, now allow delete in any sort order. The copy and paste feature has been removed.

4.10. Added an **Edit | Undo** to the **PLANS** dialog. Use Ctrl+Z to undo many actions such as adding symbols and deleting rows.

5. Acquisition

5.1. In the OMNI-200 config dialog, the name of the **Ghent/S10** button is now **Ghent/S10/NFT** to indicate it should be enabled for NFT.

6. MakeComp

6.1. Modified **Use Tube Labels** in **PARAMETERS** dialog to be three options:

6.1.1. **Print Tube Labels** is the same as old **Use Tube Labels** and will be set based on the old value. If set, the tube ID will be printed inside the tube circle.

6.1.2. Setting **Draw Tube Labels** will draw the tube labels on-screen if possible. This was always done in the **PLAN** dialog in the acquisition software, but can now be done in general. It will always be turned on in the **PLAN** regardless of the setting in MakeComp.

6.1.3. Setting **Use Full Label** will draw the row col in the tube instead of just the col.

6.2. In **PARAMETERS** dialog **Tube Labels** tab, added **LEG** column to the section attribute table. This is used for the 3D mapping. Click in the **LEG** title to change

all sections at once. Also fixed a bug where the user-defined **HEIGHT** of a section label would be deleted by the system.

6.3. In the **PARAMETERS** dialog, the following will highlight tubes in the map:

6.3.1. **Landmarks** tab will show all tubes in the current set.

6.3.2. **Tube Labels** tab will show tubes for current **SEC#**.

6.3.3. **Groups** tab will highlight current **GROUP#**.

6.4. Added the ability to create circular groups (see **CICAPP-0021**).

6.5. Added the **3D** button for 3D components (see **CICAPP-0020**).

6.6. Moving groups has been improved to draw the group as it is being moved.

6.6.1. To move a single group, click **Move Group** and then click on a tube in the group you wish to move and drag to move it.

6.6.2. To move multiple groups at once, select at least one tube in each group before clicking **Move Groups**. Then use LB+drag to move them.

6.6.3. To move a group based on coordinates of a tube in that group, select a single tube in the map and choose **Move Group XY**. A dialog will popup allowing you to move the entire group based on the coordinates of that tube.

6.6.4. To Undo the move, type Ctrl+Z.

6.6.5. Also added a **Measure** option to the map context menu. See the online help.

6.7. Added main menu options:

6.7.1. **View | Grid | Draw Axis** and **View | Grid | Draw Grid** to help in positioning groups.

6.7.2. **Edit | Center Horizontally** and **Edit | Center Vertically** to center the component around selected tubes.

6.7.3. **Edit | Select All** to select all tubes (also Ctrl+A). Use with the previous new option to center the entire component.

6.7.4. **Util | Explore Project** to open the project in file explorer.

- 6.7.5. **NOTE:** Although this is not new, many actions in MakeComp have an **Edit | Undo** associated with them. Use Ctrl+Z to undo them. The **ADD GROUP** dialog also has many **Edit | Undo** actions. Almost any major change that is not easily undone manually, for example, adding or moving groups, has an undo.

7. Eddy Admin

- 7.1. Added **File | Import All Master Tables** menu option when editing project lookup tables.

8. TLIST Dialog

- 8.1. Added menu options:

8.1.1. **Util | Explore Cal Directory** to open current cal in file explorer

8.1.2. **Util | Explore Project Directory** to open the project in file explorer.

8.1.3. **Data | Choose Directory... | Archive Data Dir** which will show a dynamically created list of all CoreStar cal directories, if any, under the project's **ecdata_archive** directory.

- 8.2. TLIST recent data dir menu will show directories that no longer exist as grayed out.

- 8.3. The context menu displayed by right-clicking in the file list will now show a list of duplicate files. Selecting the file will set it as the current entry in the TLIST.

- 8.4. The **SIZE** column of the TLIST table will now display **Missing** if the file does not exist. This should never happen for CoreStar data since we simply display a directory listing. But it can happen for EddyFi and other formats if the actual files do not match the info in their "TLIST" file.