

ESS CS-Studio Releases

- Installation Notes
 - Java
 - Java 9/10
 - On MacOS X
 - On CentOS
 - On Windows (Unsupported Platform)
 - Memory
 - css-update
- Documentation
- Development
 - Ver. 4.6.1.13
 - What Is Changed
- Production
 - Ver. 4.6.1.12 (16.01.2019)
 - What Is Changed
 - Ver. 4.6.1.11 (28.11.2018)
 - What Is Changed
 - Ver. 4.6.1.10 (23.10.2018)
 - What Is Changed
 - Ver. 4.6.1.9 (02.10.2018)
 - What Is Changed
 - Ver. 4.6.1.8 (03.09.2018)
 - What Is Changed
 - Ver. 4.6.1.7 (23.08.2018)
 - What Is Changed
 - Ver. 4.6.1.6 (02.08.2018)
 - What Is Changed
 - Ver. 4.6.1.5 (27.07.2018)
 - What Is Changed
 - Ver. 4.6.1.4 (18.06.2018)
 - Ver. 4.6.1.3 (05.06.2018)
 - Ver. 4.6.1.2 (22.05.2018)
 - Ver. 4.6.1.1 (17.05.2018)
 - Ver. 4.6.1.0 (27.04.2018)
 - Ver. 4.5.7.1 (21.03.2018)
 - Ver. 4.5.7.0 (08.03.2018)
 - Ver. 4.5.6.1 (13.02.2018)
 - Ver. 4.5.6.0 (31.01.2018)
 - Ver. 4.5.1.1 (24.10.2017)
 - Ver. 4.5.1.0 (28.08.2017)
 - Ver. 4.5.0.2 (07.08.2017)
 - Ver. 4.5.0.1 (10.07.2017)
 - Ver. 4.5.0.0 (22.03.2017)
 - Ver. 4.4.1.4 (14.03.2017)
 - Ver. 4.4.1.3 (31.01.2017)
 - Ver. 4.4.1.2 (16.01.2017)
 - Ver. 4.4.1.1 (18.10.2016)
 - Ver. 4.4.1.0 (26.08.2016)
- Community Editions

Installation Notes

Java

Oracle Java Platform 8 (JDK) must be installed. Installation packages can be downloaded from here:

Java Platform, Standard Edition: <http://www.oracle.com/technetwork/java/javase/downloads/index.html>

Note: Open-JDK cannot be used because of the lack of JavaFX support.

Java 9/10

Current version of CS-Studio doesn't run on the Java 9/10 VM. If you have installed Java 9 (possibly because you are evaluating or working with it) and Java 8, then you need to tell CS-Studio to use Java 8.

On MacOS X

- Right-click on the *ESS CS-Studio.app* application and select **Show Package Contents** menu item;
- Navigate into the Contents/Eclipse folder and edit the ESS CS-Studio.ini file;
- Before `--launcher.library` add the following two lines:

```
-vm
```

```
/Library/Java/JavaVirtualMachines/jdk1.8.0_181.jdk/Contents/Home/jre/bin
```

where `jdk1.8.0_181.jdk` should be replaced by the Java 8 version you have installed.

On CentOS

- Edit the `/opt/cs-studio/ESS CS-Studio.ini` file;
- Before `--launcher.library` add the following two lines:

```
-vm
```

```
/usr/java/jdk1.8.0_181/jre/bin
```

where `jdk1.8.0_181` should be replaced by the Java 8 version you have installed.

On Windows (Unsupported Platform)

- Edit the `ESS CS-Studio.ini` file inside the application folder;
- Before `--launcher.library` add the following two lines:

```
-vm
```

```
C:\Program Files\Java\jdk1.8.0_181\jre\bin\
```

where `jdk1.8.0_181` should be replaced by the Java 8 version you have installed.

Memory

CS-Studio runs pretty well on machine with at least 4 GBytes. If it must be run from inside the ESS DM, at least 8 GBytes are necessary, allocating 4 for the DM.

css-update

The supported method to update CS-Studio in the DM is described [here](#).

Documentation

- Documentation about ESS version of CS-Studio can be found at the [ESS CS-Studio homepage](#).
- Compatibility notes can be found at the [CS-Studio Compatibility Notes and Known Bugs page](#).

Development

Ver. 4.6.1.13

- [Release Status](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

What Is Changed

- None yet.

Production

Ver. 4.6.1.12 (16.01.2019)

Various fixes and updates.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

What Is Changed

- Archive Engine Fix: Nanoseconds Incorrect.
- BOY Fix: Combo box: Ignore mouse wheel on Linux without breaking use on Mac.
- Data Browser Fix: Added missing parameter initialisation in CS-Studio configuration file.
- Data Browser Fix: Default mode is now POINTER.
- Display Builder Fix: Don't use image cache in edit mode in Picture and Symbol widgets.
- Display Builder Fix: Refresh embedded display when changing its macros.
- Display Builder Fix: Reload Display in editor mode should check whether the file is saved.
- Display Builder Fix: Text widgets use their text in tool tip's `$(pv_value)`.
- Display Builder Fix: Removed 1px extra border in EmbeddedDisplay widget.
- Display Builder Fix: NPE when widgets are dragged into/out a structure widget.
- Display Builder Fix: Linear Meter Title disappears when dragged into/out a structure widget.
- Display Builder Fix: No macro expansion in boolean expression of a rule.
- Display Builder Fix: XYPlot value updates out of order.
- Display Builder Fix: Action dialog's macro editor.
- Display Builder Fix: 'Delete' in editor sometimes deletes widget when one would expect to only affect a property.
- Display Builder Update: Less prominent 3d effect, and removable scale in Tank widget.
- Display Builder Update: Changed the colours for INVALID and DISCONNECTED widget status.
- RDB Archive Fix: Write NaN for scalar component of zero-sized array.

Ver. 4.6.1.11 (28.11.2018)

Various fixes and updates.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

What Is Changed

- Display Builder Fix: More object disposed when an OPI is closed, speeding up GC.
- Display Builder Fix: Further improvements on Meter widgets initial PV value display.
- Display Builder Fix: Tooltip not working in Ellipse, Arc, Polygon and Polyline.
- Display Builder Fix: Vertical scrollbar widget not redrawn when height changed.
- Display Builder Update: Debug option to show update rate in plots.
- Display Builder Update: Added missing labels to ByteMonitor widget.
- Display Builder Update: Added missing "foreground" property to CheckBox and Image widgets.
- Phoebus Integration New: Added integration with the Phoebus Alarms applications.
- Phoebus Integration New: Added integration with the Phoebus ChannelFinder application.

Ver. 4.6.1.10 (23.10.2018)

Various fixes and updates.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

What Is Changed

- Display Builder Fix: Symbol widget not always loading images correctly.
- Display Builder Fix: Better handling of SVGs in Symbol and Picture widgets.
- Display Builder Fix: Gauges and Meter widgets not initially displaying the current PV value.
- Display Builder Fix: Knob widget in strange state if right-clicked into the thumb lane.
- Display Builder Fix: Spinner widget autonomously spinning if right-clicked or dragged on its buttons.
- Display Builder Fix: ScrollBar widget autonomously increasing/decreasing if right-clicked on its buttons.
- Display Builder Fix: ScaledSlider widget updating value is right-clicked on its thumb lane.

- Display Builder Fix: Meter widget minor ticks can disappear if minimum is negative and minor ticks space is non-integer.
- Display Builder Update: Meters examples.

Ver. 4.6.1.9 (02.10.2018)

Various fixes and updates.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

What Is Changed

- Display Builder Fix: '!' used in text inside rules converted to 'not'.
- Display Builder Fix: Newly (empty) created Table widget not attached to a PV displays one strange cell of data.
- Display Builder Update: It is now possible to choose which `.opi` files should be opened in BOY when the action is performed inside a Display Builder OPI. By default all `.opi` files will be opened by BOY unless the same file with extension `.bob` is found instead.
- Display Builder Update: Script API help.
- Display Builder Update: Jython script engine updated to ver. 2.7.1.
- Display Builder New: Added a property to allow verbose `.bob` files.
- Display Builder New: Slider Button widget.
- BOY Fix: Reverted the default named colours and fonts, leaving only the specific Display Builder's non-default ones.
- EDM/EDL Converter Update: Settings updated.

Ver. 4.6.1.8 (03.09.2018)

Various fixes and updates.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

What Is Changed

- CS-Studio Fix: Problems connecting to MySQL databases after driver updates.
- CS-Studio Update: Improved the build system to keep only the last 7 builds of the development version.
- BOY: Added Display Builder's colours and fonts definition to BOY's ones.
- Display Builder Update: Table widget behaviour now similar to a spreadsheet (e.g. Excel).

Ver. 4.6.1.7 (23.08.2018)

Various fixes and updates.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

What Is Changed

- Archiver Fix: The archive engine takes time to start and archive samples.
- Data Browser Fix: Cancel button fails on to cancel search if it is taking a long time.
- Data Browser Fix: Automatic value axes naming can be wrong sometimes.
- Data Browser Update: In non-scrolling mode, the future area is shaded gray.
- Data Browser Update: Help page.
- Data Browser Update: Allow `plot_bins` as scaling factor for display width.
- Display Builder Fix: BLUE-BORDER colour.
- Display Builder Fix: Single-image Symbol widget not properly saved if created by D&D.
- Display Builder Fix: Symbol widget not updated if a symbol file is updated.
- Display Builder Fix: Text not perfectly centred in LEDs.
- Display Builder Fix: Widget initial `value` update in case PV sent value before listening.
- Display Builder Fix: No context menu in standalone windows.
- Display Builder Fix: `ScriptUtil.closeDisplay(widget)` not working for standalone windows.
- Display Builder New: Allow dragging widget's primary "pv_name" as text from the OPI runtime.
- Display Builder Update: Added LEDs colours to ESS colour themes.
- Display Builder Update: Flat LEDs, improving their contrast and legibility.

- Display Builder Update: Added `line_color` to LED and MultiStateLED.
- Display Builder Update: X/Y Plot with unnamed tracks will not display the EGU.
- Display Builder Update: More details in Plot Configuration Dialog.
- Waveform View Update: support multiple traces.
- CS-Studio New: First implementation of a Phoebus integration plugin.
- CS-Studio Update: MySQL drivers updated to ver. 8.

Ver. 4.6.1.6 (02.08.2018)

Various fixes and updates.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

What Is Changed

- Display Builder Fix: PVs can't contain '=' inside their name.
- Display Builder Fix: Rules using expressions with `<=` and `>=` are no more working.
- Display Builder Update: X/Y Plot allows scalar, showing them only when Point Type is different from None.

Ver. 4.6.1.5 (27.07.2018)

Various fixes and updates.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

What Is Changed

- Fix: ESS fonts not correctly loaded when the folder name contains blanks.
- Fix: Archiver link to a PV can't be established if the PV name has macro inside.
- Fix: `PVUtil.getVType(...)` made visible to scripts.
- Fix: Locales are ignored when changing a PV value.
- Fix: NPE on right-clicking the runtime of an empty display model.
- Fix: Missing Data Browser foreground colour.
- Fix: Initial symbol (not SVG) not displayed by Symbol widget.
- Fix: SVGs no more displayed by BOY.
- New: Logarithmic X scale in X/Y Plot widget.
- New: Confirmation dialog added to `CheckBoxWidget`, `RadioWidget`, `ComboWidget`, `ActionWidget`.
- New: Find Widgets... menu item in the Overview tree contextual menu.
- Update: Display Builder Script API help.

Ver. 4.6.1.4 (18.06.2018)

Various fixes and updates.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

Ver. 4.6.1.3 (05.06.2018)

New font selector. Widget name editable from Overview. Bug fixes and improvements.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

Ver. 4.6.1.2 (22.05.2018)

Improved SVG visualisation. Standalone windows always on top of the main one.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

Ver. 4.6.1.1 (17.05.2018)

Eclipse RCP 4.7 Oxygen, and bug-fixes.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

Ver. 4.6.1.0 (27.04.2018)

New features, performance improvements and bug-fixes.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

Ver. 4.5.7.1 (21.03.2018)

New features, performance improvements and bug-fixes.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

Ver. 4.5.7.0 (08.03.2018)

New features including improved workflow and usability in Rules dialog, performance improvements and bug-fixes.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

Ver. 4.5.6.1 (13.02.2018)

New features including improved workflow and usability in Rules dialog, performance improvements and bug-fixes.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

Ver. 4.5.6.0 (31.01.2018)

New features including Thumb Wheel widget, performance improvements and bug-fixes.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

Ver. 4.5.1.1 (24.10.2017)

Mostly bug fixes and performance improvements.

- [Release Details](#)
- [Linux Download](#)

- [MacOS X Download](#)
- [Windows Download](#)

Ver. 4.5.1.0 (28.08.2017)

First version including the Knob widget for Display Builder.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

Ver. 4.5.0.2 (07.08.2017)

Including SymbolWidget and TextSymbolWidget.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

Ver. 4.5.0.1 (10.07.2017)

Various improvements and bug fixes.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

Ver. 4.5.0.0 (22.03.2017)

Web menu items pointing to ESS services.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

Ver. 4.4.1.4 (14.03.2017)

First version including meters and gauges widgets in Display Builder.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

Ver. 4.4.1.3 (31.01.2017)

First version including the new Data Sources preference pages.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

Ver. 4.4.1.2 (16.01.2017)

First version including the new Data Sources preference pages.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

Ver. 4.4.1.1 (18.10.2016)

First version including the new Display Builder OPI engine.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

Ver. 4.4.1.0 (26.08.2016)

First official ESS version of CS-Studio.

- [Release Details](#)
- [Linux Download](#)
- [MacOS X Download](#)
- [Windows Download](#)

Community Editions

CS-Studio Community Editions (CE).

- [Download](#)