



ProvviewR
OPEN SOURCE PROCESS CONTROL

Release Notes V6.0

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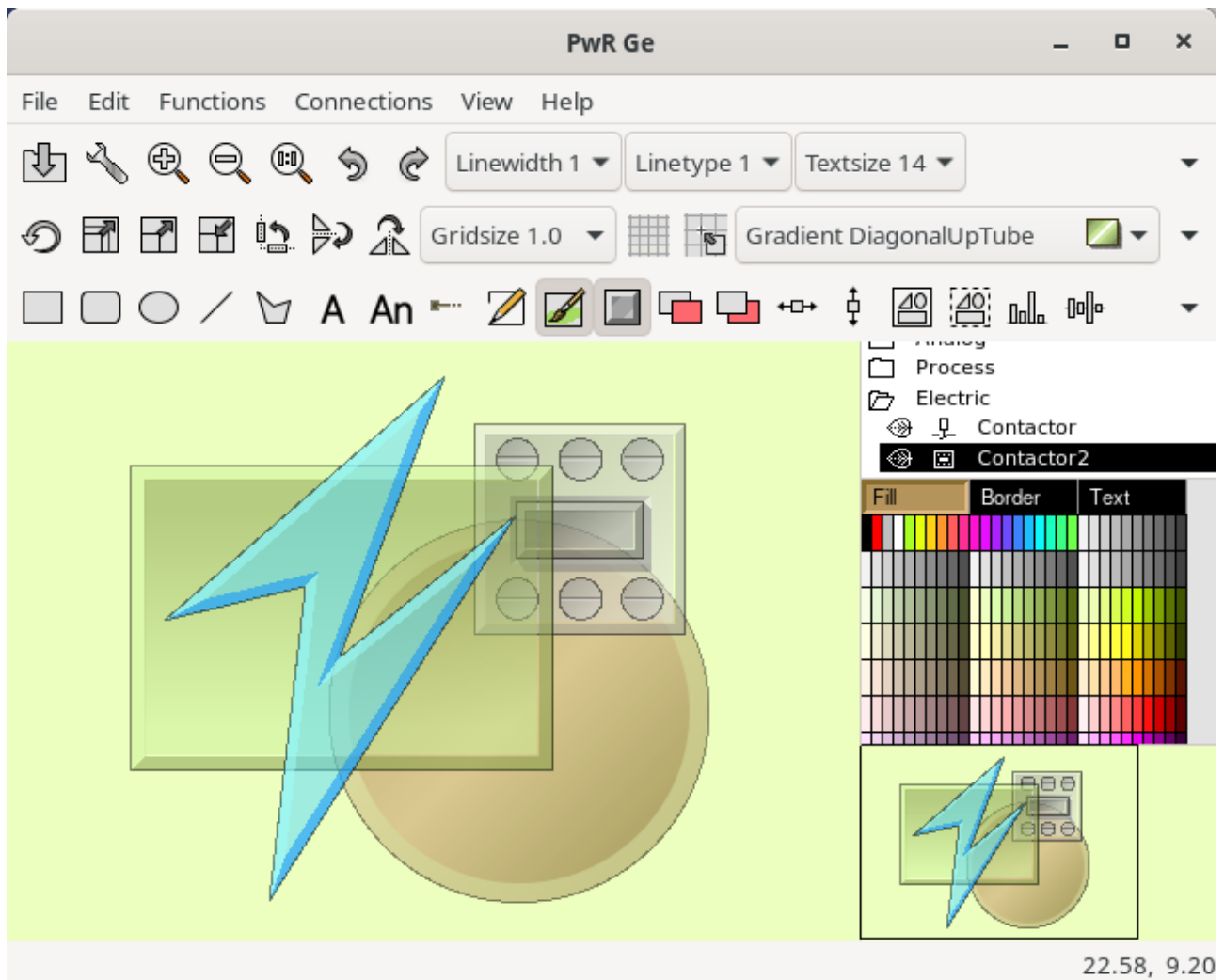
Upgrading to ProviewR V6.0.0

This document describes new functions in ProviewR V6.0.0, and how to upgrade a project from V5.9.0 to V6.0.0.

New functions

Ge transparency

Objects in Ge can be drawn transparent.



Ge dynamic DigTransparency

An object will shift between two transparency levels dependent on a digital signal.

Ge dynamic AnalogTransparency

An object will gradually change transparency dependent on the value of an analog signal.

Ge antialiasing

Antialiasing is added to ge graphs. Antialiasing is selected in GraphAttributes.

Ge editor tool button to view object tree

A new tool button is added to the tool bar in the Ge editor to view or hide the object tree.

Ge scripts in web interface

Graphs written in ge script can be displayed in the web interface.

Ge script functions

New Ge script functions

GetWindowSize(), GetUI_Env(), GetGraphConfig, SetDefaultFill(), SetDefaultBorder(), SetDefaultShadow(), SetDefaultFillColor(), SetDefaultBorderColor(), SetDefaultTextColor()

Ge unit conversion

A new dynamic, UnitConvert, can be added to value and value input fields and makes it possible to display a value in another unit than the database unit. The database value will be converted before displayed on the screen, and input values will be converted before they are stored in the database. Conversions are implemented for the following entities and units.

Acceleration	m/s ² , ft/s ² , in/s ²
Angle	Rad, degree, min, mrad, percent, sec
Area	m ² , a, ac, cm ² , ha, km ² , mm ² , sq in, sq mi, sq ft, sq yd
Energy	J, cal, kJ
Force	N, kN, kp, MN, p
Frequency	Hz, kHz, MHz, rad/min, rad/s, RPM
General	1:1, Tera, Giga, Mega, Kilo, Hecto, Deca, Deci, Centi, Milli, Micro, Nano, Pico
Length	m, cm, dm, ft, in, km, mi, mm, nm, NM, μm, yd
Mass	kg, g, hg, kt, lb, mg, oz, st, t, μg
MassFlow	kg/s, g/min, g/s, kg/min, lb/min, lb/s, mg/min, oz/min, oz/s
Power	W, hp, GW, kW, mW, MW, TW, μW
Pressure	Pa, atm, b, kPa, lb/ft ² , lb/in ² , mb, mPa, mmHg, Mpa
Speed	m/s, ft/min, ft/s, in/min, in/s, km/h, kn, m/min, mm/s, mi/h, yd/min, yd/s
Temperature	K, C, F, R
Time	s, d, h, min, ms, ns, μs, wk, y
Volume	m ³ , cm ³ , dm ³ , ft ³ , in ³ , mm ³
VolumeFlow	m ³ /s, cl/s, in ³ /min, in ³ /s, ft ³ /min, ft ³ /s, l/s, m ³ /min, mm ³ /s, yd ³ /min, yd ³ /s

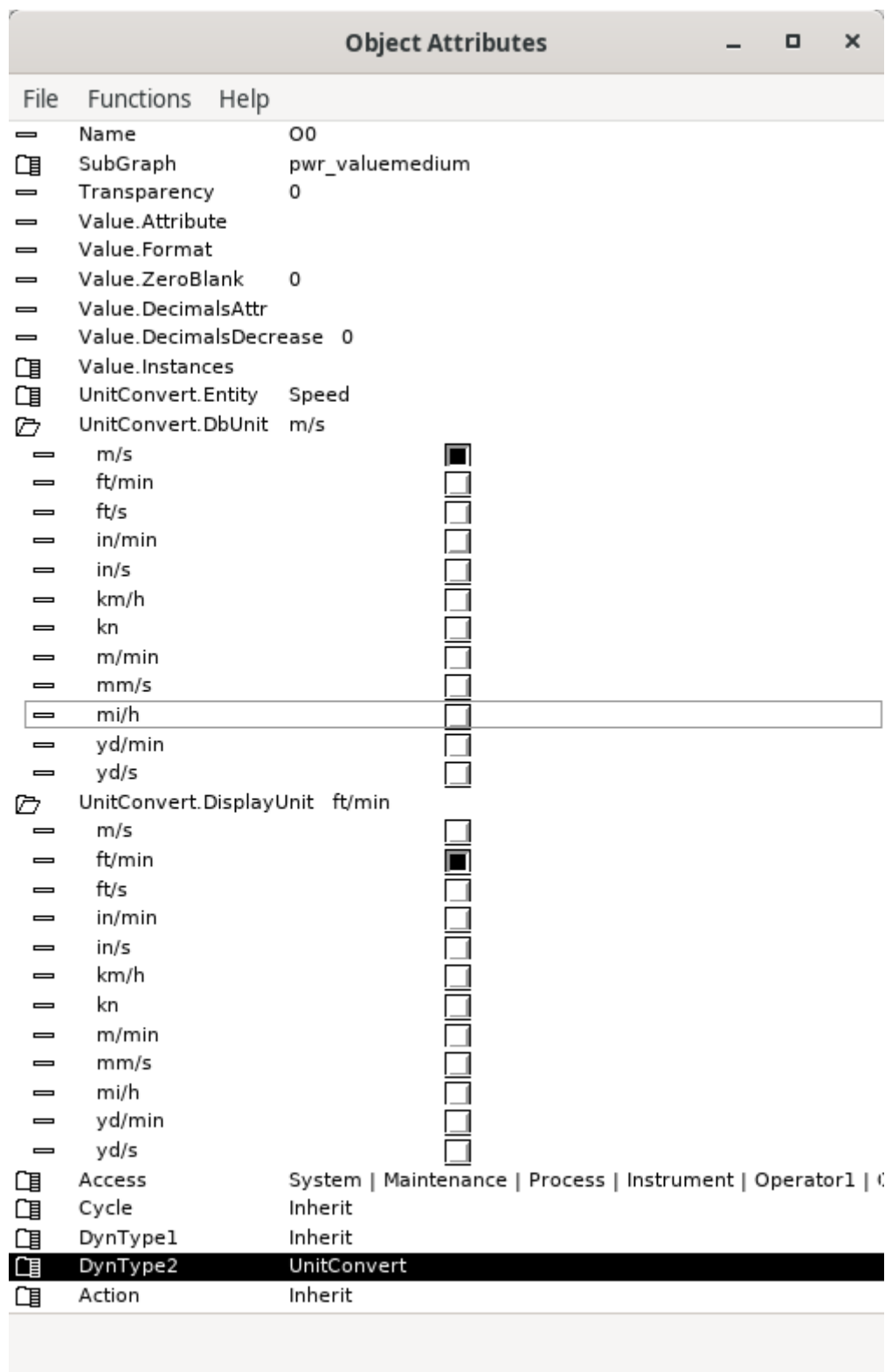


Fig Properties for dynamic UnitConvert

Dark and light color theme

The ProviewR color theme will adapt to the darkness of the currently selected theme. A dark colortheme now affects all windows.

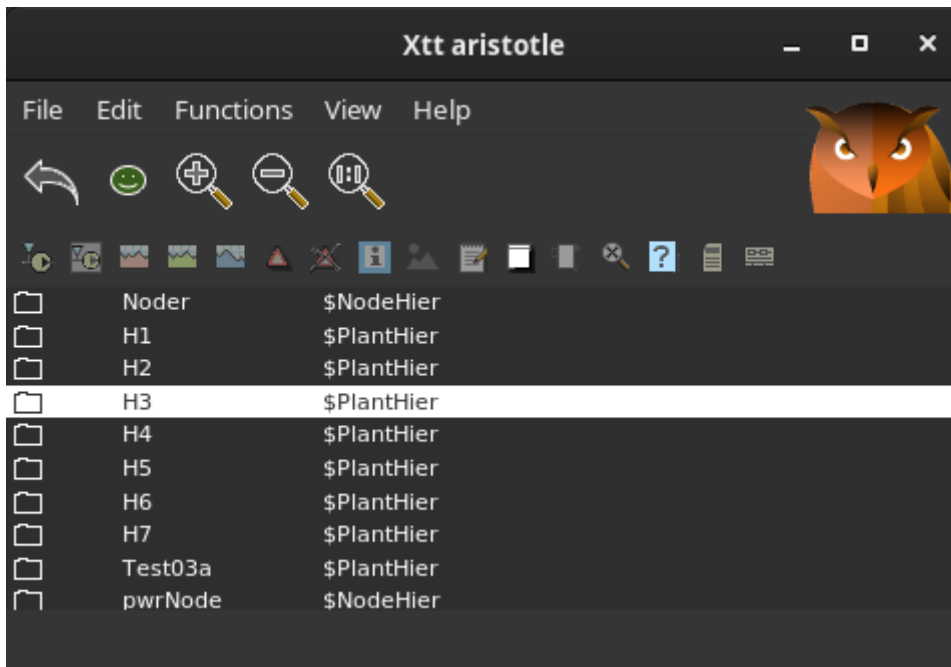
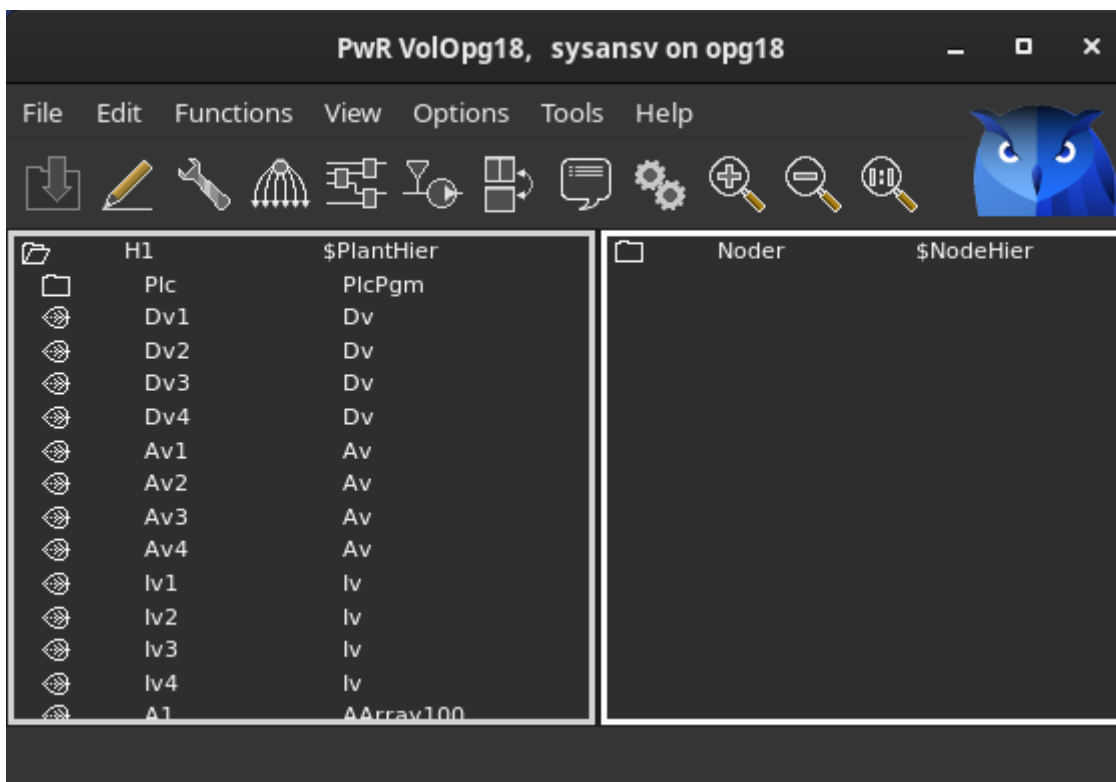


Fig Dark color theme

Also the development environment is available in dark theme. Dark or light them is selected in



Settings.

Fig Configurator with dark color theme

Plc include files

All plc header files are included by default in newly created projects, and doesn't need to be included in ra_plc_user.h.

Upgrade procedure

The upgrading has to be done from any V5.9. If the project has a lower version, the upgrade has to be performed stepwise following the schema

V2.1 -> V2.7b -> V3.3 -> V3.4b -> V4.0.0 -> V4.1.3 -> V4.2.0 -> V4.5.0 -> V4.6.0 -> V4.7.0 -> V4.8.6 -> (V5.0.0) -> V5.1.0 -> V5.2.0 -> V5.3 -> V5.4 -> V5.5 -> V5.6 -> V5.7 -> V5.8 -> V5.9 -> V6.0

Enter the administrator and change the version of the project to V6.0.0. Save and close the administrator.

Enter the directory volume and save.

If you have any class volumes, enter the class editor and build the volume.

Enter the configurator for each root volume and activate 'Function/Update Classes' and build.