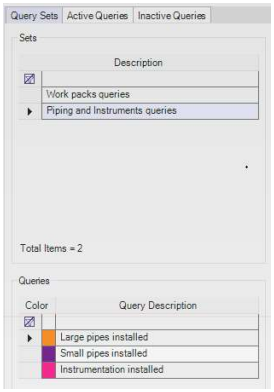
Product Release Latest Update

This release updates the E3D Design 3.1.9 release and includes the following functional enhancements:

Visual Query Sets

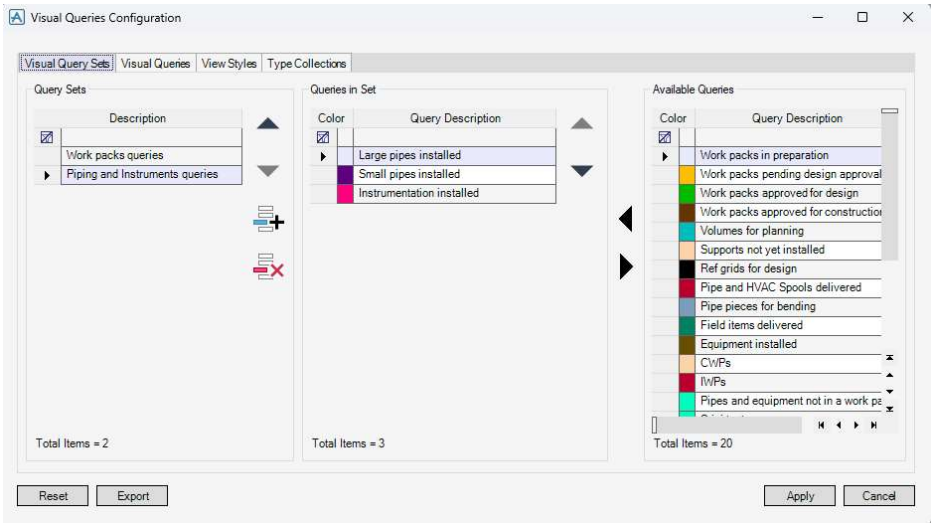
Visual Queries can now be grouped into sets to be used for a common purpose, e.g. one for each status value in a workflow for model elements, or one for each discipline in a design area. This makes it much easier to swap between different graphical views of the data.

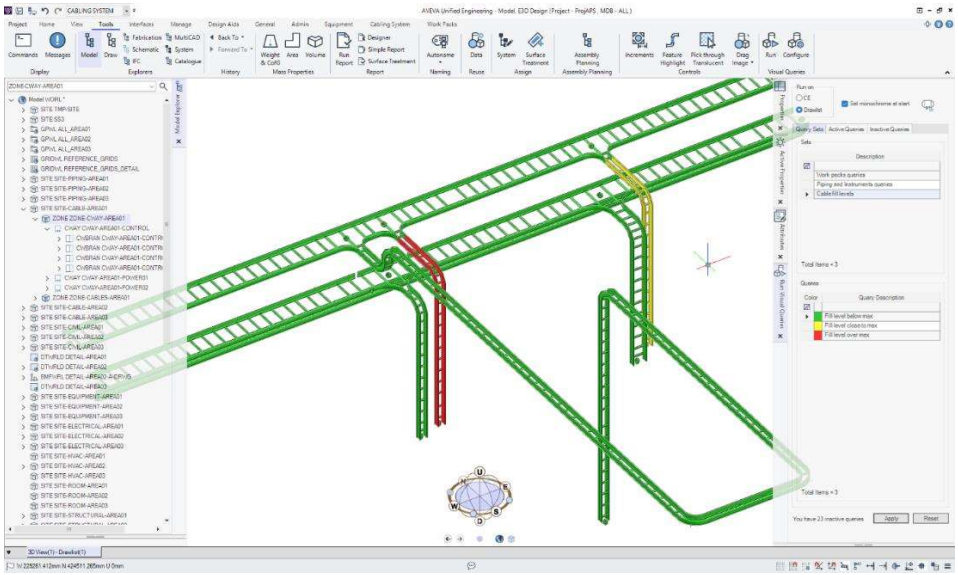


In **Run Visual Queries** select a Query Set to make its Queries active.

ⓘ *Visual Queries are accessible in the Tools panel in any module in E3D Design.*

In the **Visual Queries Configuration** form the Query Sets can be accessed and managed via the Visual Query Sets tab.



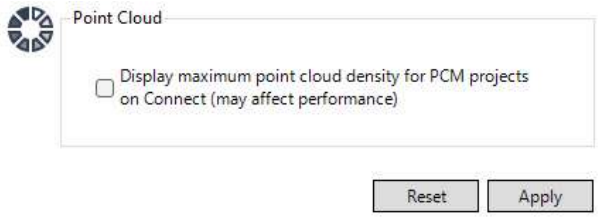


Laser - Project Switch for Cloud Dataset Density

Laser point cloud data with increased point density can now be utilised within E3D Design Model.

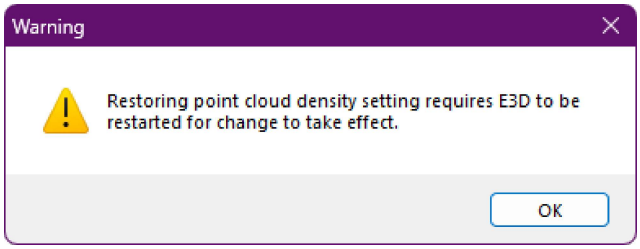
Previously, point set data was simplified to ensure that overall performance of the application remained consistent for larger datasets. At this release an option to utilise cloud datasets with increased density is included within the product.

This option is provided as a selectable toggle within the Model environment Project -> Options tab (see View -> Configuration)



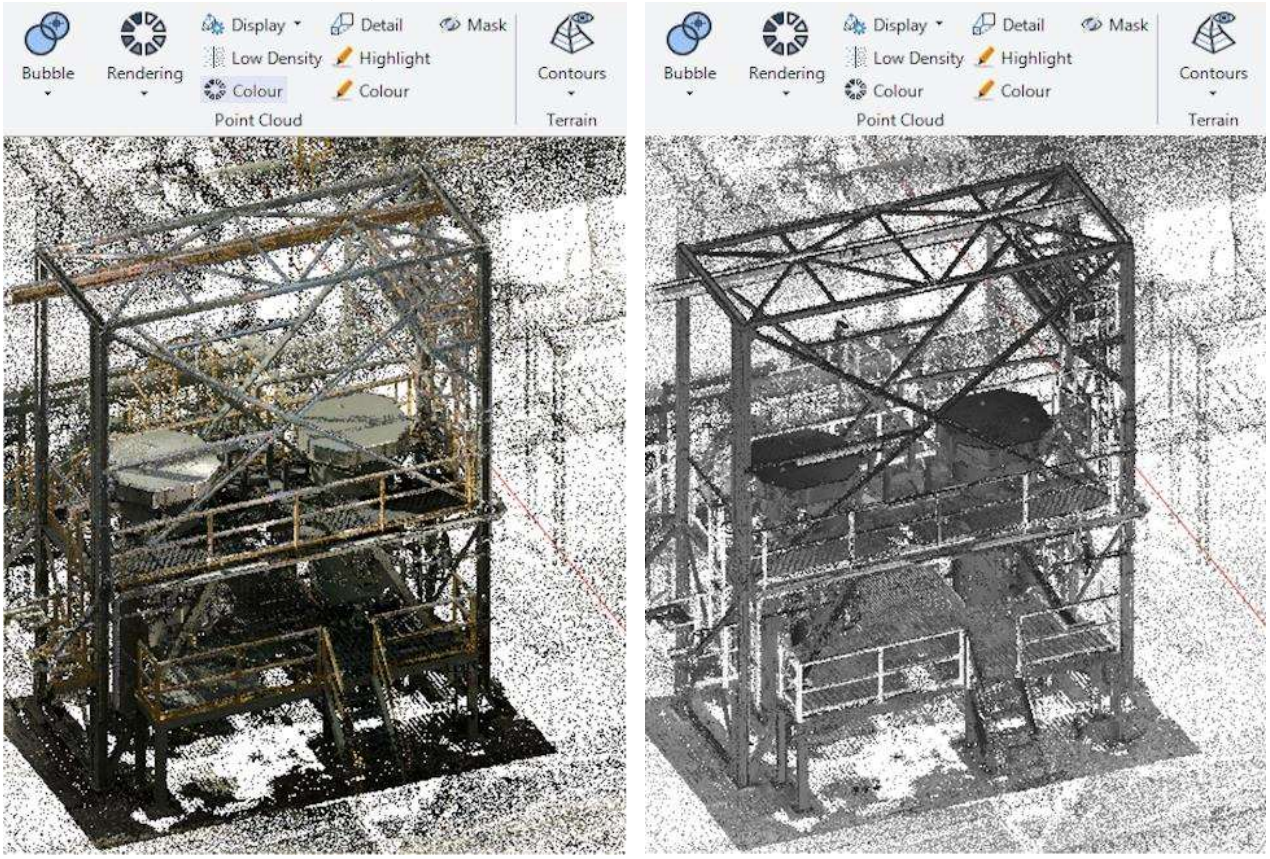
ⓘ *Applying this change within the Model environment will require a short initialisation period. Interaction with Laser data that includes the enhanced point set data may be less performant than a dataset that has a pointset with lesser density.*

ⓘ *When switching back to the default, lower density dataset the user will be prompted to re-enter the design environment. This change will not take effect unless the user restarts the product manually.*



Laser - Switch between intensity and color in points and Bubble View

The user can toggle between intensity and color rendering of Point Cloud datasets via the Colour toggle button within the Point Cloud group within the View tab.



Interfaces – Updated HOOPS exchange version for MultiCAD

MultiCAD import includes an upgraded HOOPS Exchange SDK: version 2024.7.0. This version offers extended functionality over the previous version 2022 SP2 U2 (aligned to AVEVA E3D Design 3.1.8.1)

Notable updates include support for:

Format	Supported Versions
Navisworks®	2012 to 2025
Revit®	2015 to 2025
Creo® - Pro/E	Pro/Engineer 19.0 to Creo 11.0
NX™ - Unigraphics	UG11 to UG18, UG NX, NX5 to NX12, NX1847 to NX2406
Parasolid®	Up to 37.0

For further information on the latest HOOPS Exchange SDK version (and previous versions) please refer to the release note https://docs.techsoft3d.com/exchange/latest/release_notes/2024.7.0.html

Product Release Latest Update

This release updates the E3D Design 3.1.9 release and includes the following functional enhancements:

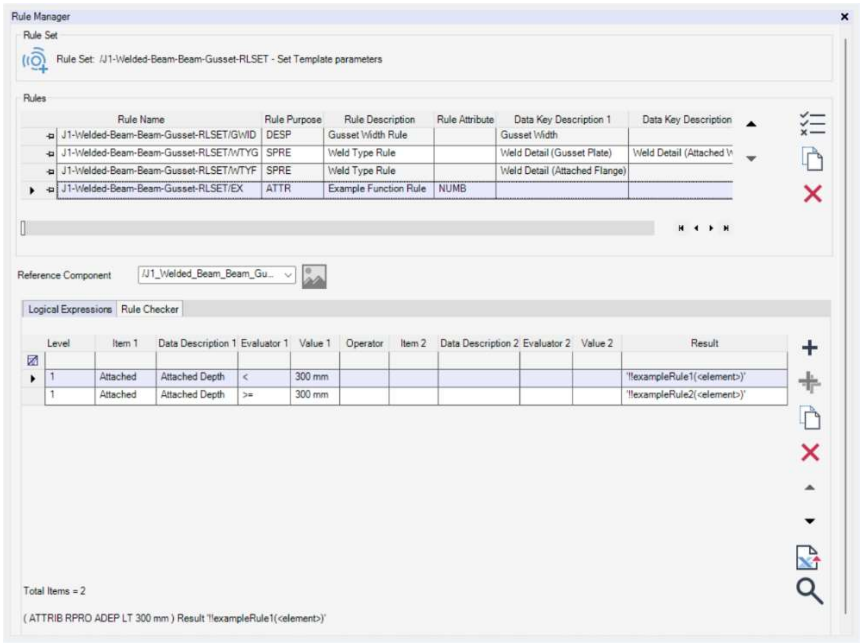
Structures – Use a PML function with the Rules Manager

The Rules Evaluation Engine has been updated so that PML functions can be evaluated to provide the result of the rule execution. An element reference of the item being evaluated can now be passed to the PML function evaluation rule as a parameter. When defining the rule result, add <element> as a parameter, for example:

!!TestFixingRule1(<element>)
Additional parameters can be passed to the function as fixed values, i.e.
!!TestFixingRule2(<element>,100,300)

ⓘ *The function must return a STRING value.*

ⓘ *Note: The RVALUE element which contains the function must have its purpose set to FUNC to enable this function. The Rule Manager window automatically sets this purpose if it detects a function has been entered in the Result column.*



Product Release Latest Update

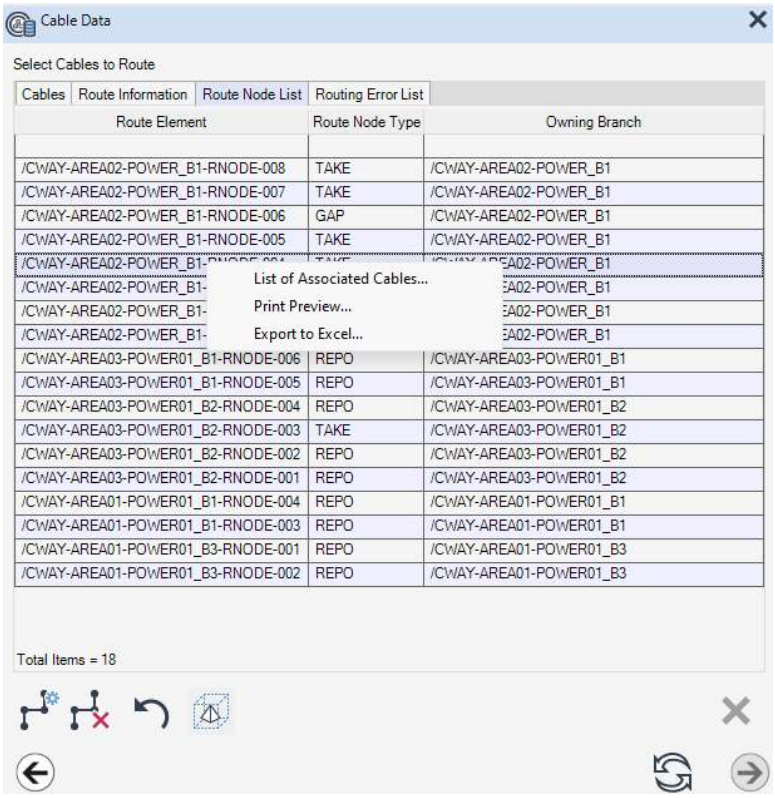
This release updates the E3D Design 3.1.9 release and includes the following functional enhancements:

Cable System Module – Cable Data form updates

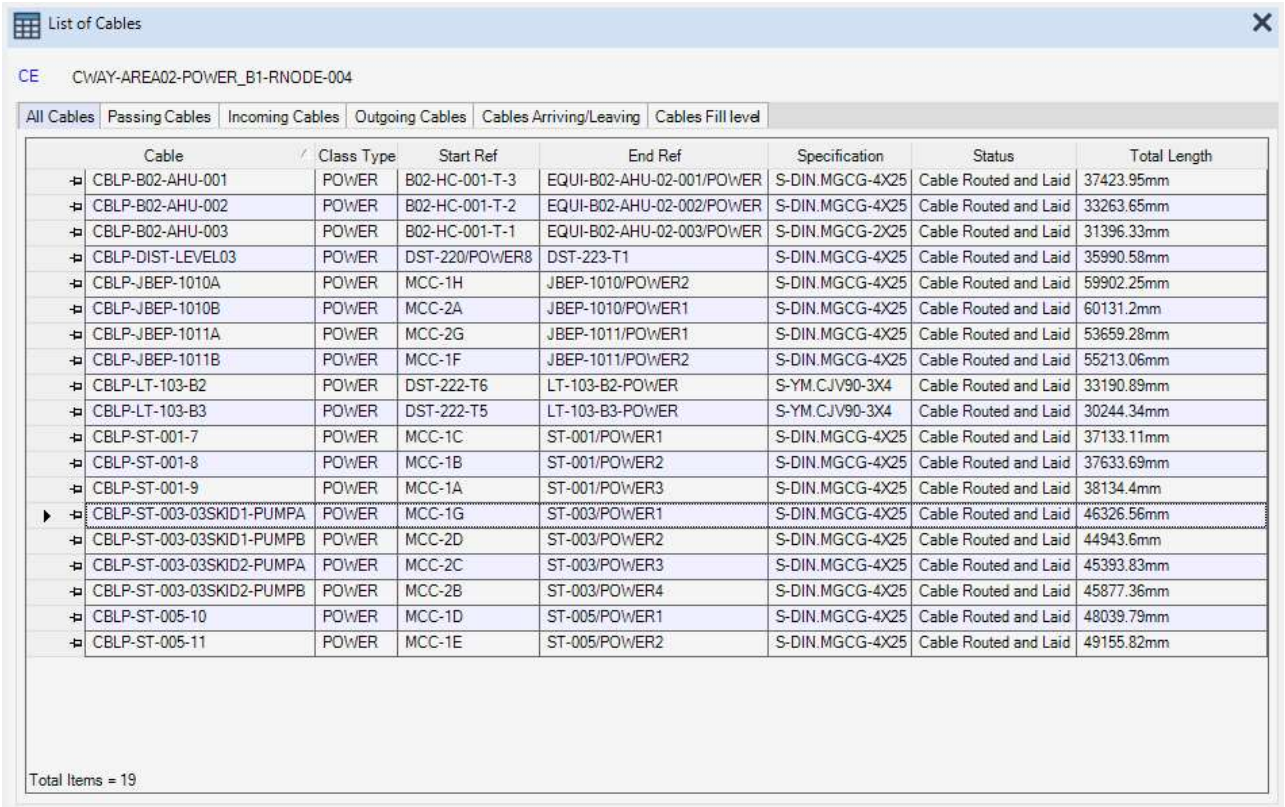
Route node information is now available for cables selected within the **Cable Data** form.

For a single selected cable, the route nodes associated with that cable are displayed in the Route Node List tab.

Route Element	Route Node Type	Owning Branch
/CWAY-AREA02-POWER_B1-RNODE-008	TAKE	/CWAY-AREA02-POWER_B1
/CWAY-AREA02-POWER_B1-RNODE-007	TAKE	/CWAY-AREA02-POWER_B1
/CWAY-AREA02-POWER_B1-RNODE-006	GAP	/CWAY-AREA02-POWER_B1
/CWAY-AREA02-POWER_B1-RNODE-005	TAKE	/CWAY-AREA02-POWER_B1
/CWAY-AREA02-POWER_B1-RNODE-004	TAKE	/CWAY-AREA02-POWER_B1
/CWAY-AREA02-POWER_B1-RNODE-002	PENE	/CWAY-AREA02-POWER_B1
/CWAY-AREA02-POWER_B1-RNODE-003	OFFS	/CWAY-AREA02-POWER_B1
/CWAY-AREA02-POWER_B1-RNODE-001	REPO	/CWAY-AREA02-POWER_B1
/CWAY-AREA03-POWER01_B1-RNODE-006	REPO	/CWAY-AREA03-POWER01_B1
/CWAY-AREA03-POWER01_B1-RNODE-005	REPO	/CWAY-AREA03-POWER01_B1
/CWAY-AREA03-POWER01_B2-RNODE-004	REPO	/CWAY-AREA03-POWER01_B2
/CWAY-AREA03-POWER01_B2-RNODE-003	TAKE	/CWAY-AREA03-POWER01_B2
/CWAY-AREA03-POWER01_B2-RNODE-002	REPO	/CWAY-AREA03-POWER01_B2
/CWAY-AREA03-POWER01_B2-RNODE-001	REPO	/CWAY-AREA03-POWER01_B2
/CWAY-AREA01-POWER01_B1-RNODE-004	REPO	/CWAY-AREA01-POWER01_B1
/CWAY-AREA01-POWER01_B1-RNODE-003	REPO	/CWAY-AREA01-POWER01_B1
/CWAY-AREA01-POWER01_B1-RNODE-002	REPO	/CWAY-AREA01-POWER01_B1
/CWAY-AREA01-POWER01_B2-RNODE-001	REPO	/CWAY-AREA01-POWER01_B2
/CWAY-AREA01-POWER01_B2-RNODE-002	REPO	/CWAY-AREA01-POWER01_B2



Further options are available by using the right mouse button on Route Elements. For example, a list of cables associated with a route node can be generated. This can be useful for determining which cables pass through a particular node type such as a penetration or gap.



Cable – Cable Path Definition and Route Tasks Form updates

The **Path Definition** and **Route Tasks** Form has been updated so that the appropriate radius value is utilized and displayed for Riser route components.

When modifying a route in the form the selected route point will inform the user if it is a Bend or Riser, and whether it is using the Inside or Outside Radius value. The Inside Radius is used unless it is an Inside Riser, in which case the Outside Radius is required.

ⓘ *The ability to modify the radius is only available for variable radius catalogue items, fixed catalogue items cannot be modified*