1st CERN CAD Forum



Tips and tricks

08.11.2023 – E.Urrutia for Kraftanlagen / Assystem

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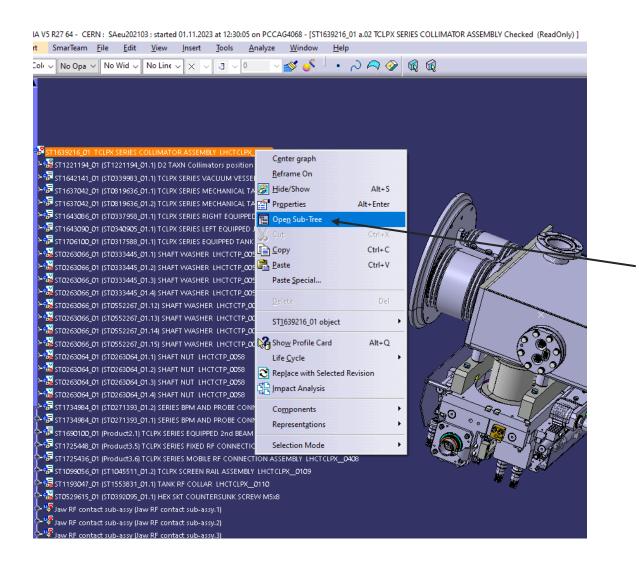
- Sub-tree window
- Intersection radius
- Quick parametrization
- Edit multi-constraints
- Dimensions re-routing
- Advanced replication tool (for geometrical sets)



Sub-tree window



Additional window can be opened to ease navigation in construction tree



2nd window can be opened by rightclicking on construction tree

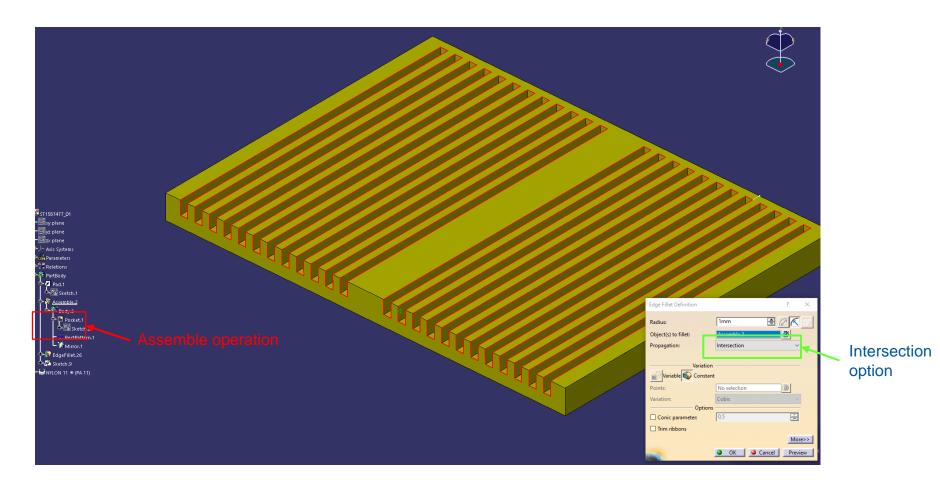
Can be very useful for big assenblies and 2 screens configuration



Intersection radius



Edge selection in radius function can be done by selection intersection between 2 operations



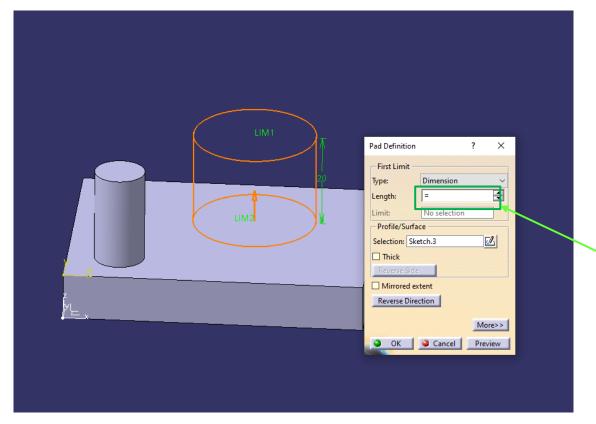
In filet creation Intersection option allows to slect quickly all the edges created between 2 or more operations



Quick parametrization



A method can be used to parametrize dimensions quickly during construction



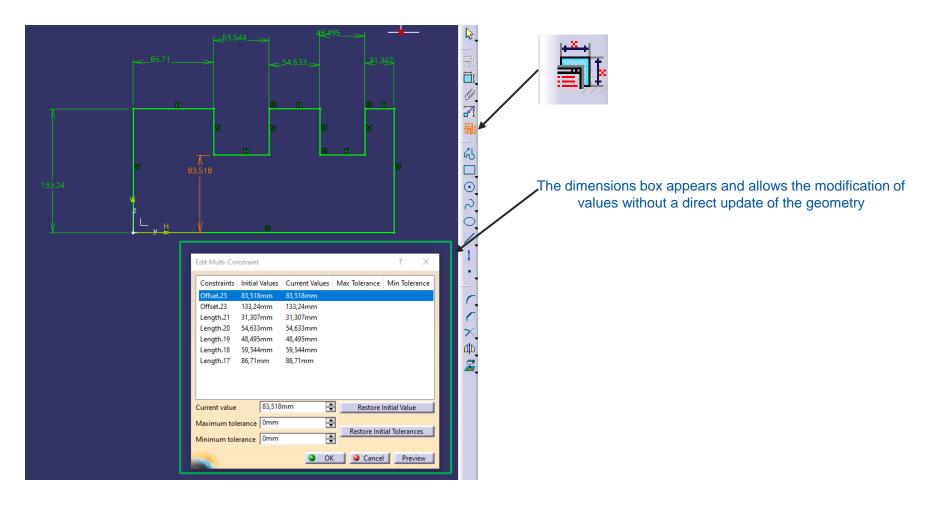
By using « = » symbol, dimensions can be linked quickly to parametrize construction (instead of right-click + edit formula + selection + ok)



Edit multi-constraints



Multi-constraint function allows to edit dimensions in a sketch before comitting them



Useful when the geometry has a tendency to «flip» when dimension are changed (like tangent arcs for instance)

Allows to avoid dezooming operation when the sclae is not the good one at the beginning

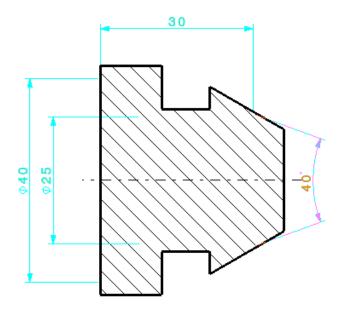


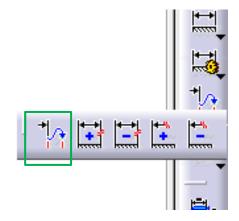
Dimensions re-routing



Re-route dimension tool allows to reconnect broken or hidden dimensions after a geometry update in drawing

In case of broken or hidden dimensions it's possible to «repair» thanks to the Re-Route Dimension tool



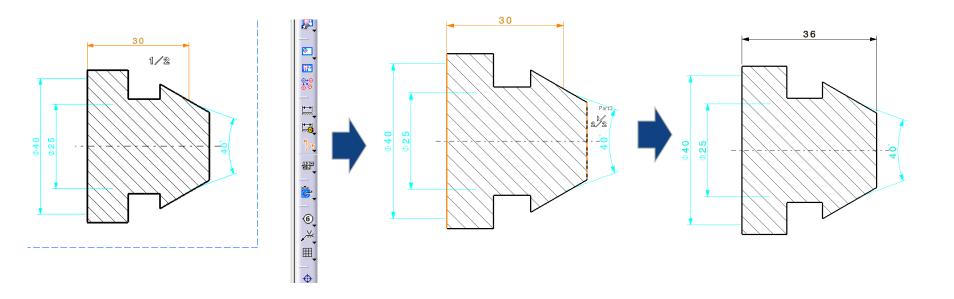


Re-Route Dimension tool



Re-route dimension tool allows to reconnect broken or hidden dimensions after a geometry update in drawing

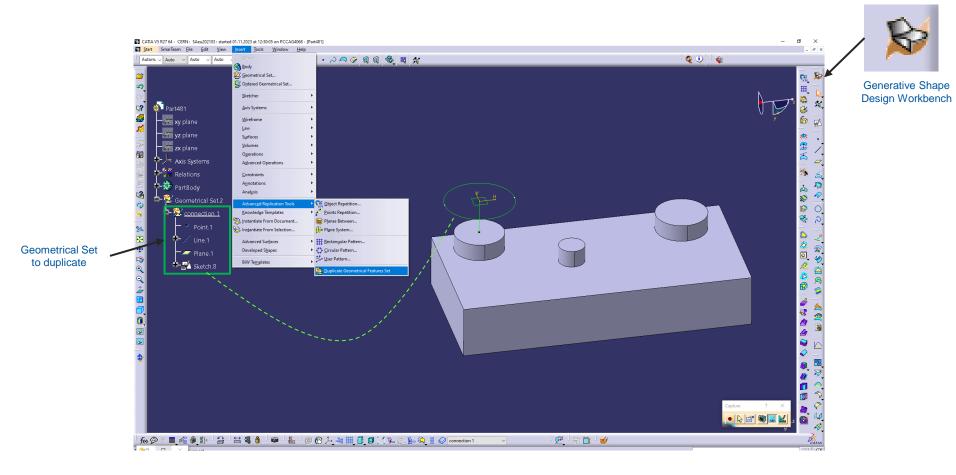
Once Re-Route Dimension tool selected > click on the broken dimension > select the new inputs (one or several)





Advanced replication tool (for geometrical sets)





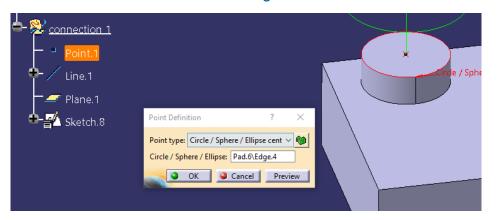
Insert > Advanced Replication Tools > Duplicate Geometrical Features Set



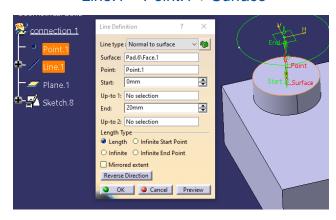
Example:

Connection 1 Geometrical set inputs:

- Point.1 = circle edge



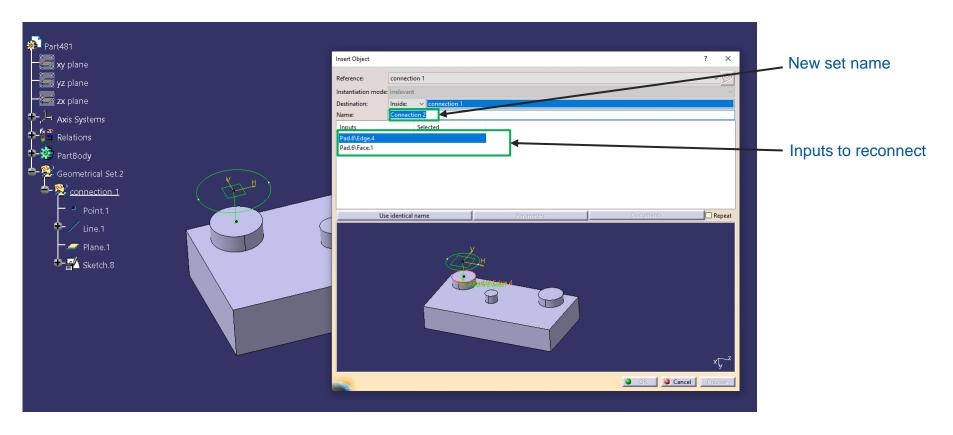
- Line.1 = Point.1 + Surface



Plan.1 & Sketch.8 are built from Point.1 + Line.1 (no external references)



By clicking *Duplicate Geometrical Features Set* + the Geometrical Set to duplicate (here *connection 1*), a window appears to select to select inputs for the new Set





Once inputs are selected, the Geometrical set is duplicated with the new parameters, click OK to validate

