

Release Notes for the RISA-Tekla Link

Version 6.0.1 Enhancements

- Updated the link to be compatible with the newly released Tekla Structures V2016i and discontinued support of Tekla Structures V20.1.

Version 6.0 Enhancements

- Updated the link to be compatible with Tekla Structures V21.1 and Tekla Structures 2016. This includes removing support for V19.1 and V20.
- Updated the interface to make it easier to select/unselect and view connections for transfer to RISACONNECTION.
- Added the ability to use End Condition loading on beams and braces for connection design, rather than solely considering Component forces.
- Added the ability to define loads using the UDL designation.
- Added the ability to transfer seismic end plate moment connections for **End Plate (144)** for BEEP OMF, IMF and SMF connections.
- Added the ability to transfer seismic flange plate moment connections for **Bolted moment connection (134)** for BFP OMF, IMF and SMF connections
- Added the ability to transfer reduced beam section moment connections using **Column with Stiffeners W (182)** and **Dogbone (1)** for RBS OMF, IMF and SMF connections.
- Added support for vertical brace connections for wide flange braces using Component **Wraparound gusset (58)**.
- Added support for chevron brace connections for L's, LL's, tubes, pipes and WT brace members using Component **Bolted gusset (11)**. These connections are for use if the brace attaches directly to the gusset.
- Added support for chevron brace connections for tube and pipe brace members using Component **Tube gusset (20)**. These connections are for use if the brace attaches to a knife plate that then attaches to the gusset.
- Added support for chevron brace connections for wide flange braces using Component **Gusseted cross (62)**.
- Added the ability to use tubes and pipes for columns for vertical brace Components **Wraparound gusset (58)**, **Hollow brace wraparound gusset (59)**, and **Wraparound gusset cross (60)**.
- Added support for many configurations of column/beam **Clip angle (141)** and **Shear plate simple (146)** connections with **Wraparound gusset (58)**, **Hollow brace wraparound gusset (59)**, and **Wraparound gusset cross (60)** that can be different shape types top and bottom.
- Added the ability to transfer seismic brace connections for **Wraparound gusset (58)**, **Hollow brace wraparound gusset (59)**, and **Wraparound gusset cross (60)**.
- Added support for full depth shear tab girder/beam connections using Component **Full depth (184)**.
- Fixed an issue where certain girder beam shear tab connections that were defined near the bottom flange of the girder were shown at the top flange in RISACONNECTION.

Version 5.0 Enhancements

- Updated the link to be compatible with Tekla Structures V21 and discontinued support of Tekla Structures V19.
- Added support for Component **Stanchion weld (85)** for direct weld moment connections between two tube members.
- Added support for end plate moment connections through the **End Plate (144)**. This component supports Flush End Plate, Extended End Plate and Extended on the Tension Side Moment Connections.
- Added an Automatic Roundtrip Solution Option button in the Tekla Structures interface to speed up subsequent solutions after the first.
- Added support for channel sections to be used as beams (**Clip angle (141)**, **End plate (144)**, **Shear plate simple (146)**, **Hollow brace wraparound gusset (59)**, and **Wraparound gusset cross (60)**) and braces (**Wraparound gusset cross (60)**).
- Added support for Component **Shear plate tube column (189)** for Column/Beam Shear Tab Shear connections where the column is a tube or pipe and the connection is a through plate.
- Added an option in the installer to install to the Program Files and Documents folders.
- Added support for the China, India, Sweden, Norway, and Australasia Tekla Structures environments.
- Added a field to allow a customer to directly define a connection name. Previously only the CONNECTION_RUNNING_NUMBER was used.
- Added an option to allow the program to select or deselect all connections to go to RISACONNECTION. By default all connections try to export to RISACONNECTION, which isn't always preferred.
- Added mapping of a Tekla Structures components "Thread in Mat" field. Previously this field was ignored.
- Updated the link to allow Brace Min Clearance and Brace Workpoint Distance to be editable in Components 59 and 60 in RISACONNECTION.
- Eliminated the transfer of some dimensions for Components 59 and 60. It was found that setting all dimensions could over-restrain the connection and cause problems.

Version 4.0.1 Enhancements

- Updated the link to be compatible with the newly released Tekla Structures V20.1 and discontinued support of Tekla Structures V18.1.

Version 4.0 Enhancements

- Added support for Component **Wraparound gusset cross (60)** for vertical brace connections for L's, LL's, tubes, pipes and WT's. These connections are for use if the brace attaches directly to the gusset.
- Added support for Component **Hollow brace wraparound gusset (59)** for vertical brace connections for tubes and pipes. These connections are for use if the brace attaches to a knife plate that then attaches to the gusset.
- Added a warning for shear connections if there is a moment force applied in Tekla Structures. This moment force will be ignored for standard shear connections in RISACONNECTION.
- Added WT's and LL's to our default mapping files.
- Added support for the German and UK Tekla Structures environments.

Version 3.0.1 Enhancements

- Updated the link to be compatible with the newly released Tekla Structures V20 and discontinued support of Tekla Structures V18.

Version 3.0 Enhancements

- Added support for Component **Column with Stiffeners W (182)** for column/beam direct weld moment connections.
- Added support for Component **Splice Connection (77)** for beam and column splices. This component supports shear tab splices, moment plate splices, and directly welded moment splices.
- Added support for Component **Joining Plates (14)** for beam and column extended end plate splices.
- Added support for Components **Clip angle (141)**, **End plate (144)**, and **Shear plate simple (146)** for HSS and Pipe columns.
- Updated the link to be compatible with the German and UK environments.
- Enhanced many aspects of the US Imperial and US Metric environments.
- Added a Mapping File Editor utility to help quickly map custom shapes, materials and bolts between Tekla Structures and RISACONNECTION.
- Added an option that allows a user an option to not send the connection to RISACONNECTION.
- Updated many items related to problems with different Windows region settings.
- Updated registry settings to be more Windows friendly.
- Fixed a problem where using the RISA-Tekla Link with a demonstration version of RISACONNECTION would only work if RISACONNECTION was already open.

Version 2.0.1 Enhancements

- Updated the link to be compatible with the newly released Tekla Structures V19.1.

Version 2.0 Enhancements/Corrections

- Fixed many miscellaneous issues with the transfer of information with the link.
- Updated warning and error messages both in the program and in the help to be more accurate and give more information.
- Added the ability for the link to read the joints.def file to find properties of the connection.
- Updated which ID's are used to map to the connections in Tekla Structures. The program now uses the GUID to map to and reports the CONNECTION_RUNNING_NUMBER as the name of the connection. Previously the Connection ID was used.
- Updated the naming scheme for the RISACONNECTION files created. The actual RISACONNECTION file was renamed to *TeklaFileName.rcn* and the exchange file was renamed to *TeklaFileName.exc*.
- Added slip-critical bolt mapping for Bolt Standards in Tekla Structures that have SC or SC_TC at the end of the name. Previously this was ignored.
- The Column Force and Story Shear fields are now editable in RISACONNECTION. Previously these were always taken as zero.
- Fixed a rounding issue that could cause 3/16 welds in Tekla Structures to come into RISACONNECTION as 2.997/16's that would cause weld checks to fail.

- Updated the sign of the axial forces in connections. Tekla has a nomenclature of a positive value meaning tension, while RISACONNECTION uses a negative value for tension. This has now been accounted for.
- Updated the behavior with stiffeners for connection 134 to link the behavior. Previously, each program worked separately and there was no linking of geometric properties.
- Fixed an issue where the cross-sectional areas of columns were being brought over as 0. This could cause 0 capacity for some column checks.
- Removed support for connection components 116, 120, 29, 101, 103 and 131. These are all redundant connections that can be supported off of Components **Clip angle (141)**, **End plate (144)**, and **Shear plate simple (146)**.
- Fixed a problem with connection **Shear plate simple (146)** where filling in information in the "Name" field (on the Plates tab) could cause the link not to work.
- Fixed a problem in mapping the size of holes which could cause errors in block shear and shear rupture checks.

Version 1.0 Initial Release

- Added support for Components 116, 120 and **Clip angle (141)** for column/beam and girder beam clip angle connections.
- Added support for Components 29, 101, and **End plate (144)** for column/beam and girder beam end plate connections..
- Added support for Components 103, 131 and **Shear plate simple (146)** for column/beam and girder beam shear tab connections..
- Added support for Component **Bolted moment connection (134)** for column/beam flange plate moment connections..