Release Notes for RISAConnection

Version 6.0.2 Enhancements / Corrections

- Made Significant improvements to the behavior of Subscription licensing, including adding the ability to view current license usage.

Version 6.0.1 Enhancements / Corrections

- Added an Angle Leg Bending check for bolted clip angles in tension.
- Added a toggle button to the 2D views to graphically display the Whitmore Section for braced connections.
- Seismic Vertical Brace Enhancements:
  - Added a check to verify that all joints along the column have the same connection type (bolted or welded) for seismic vertical brace connections.
  - Added HSS beams for design of seismic Chevron connections.
  - Added HSS columns for design of seismic Diagonal Brace connections.
  - Added a check for reinforcing bar area on slotted SCBF seismic braced connections.
- Added a solid color background to enhance the view of the quick access toolbar.
- Corrected an error which prevented the Overall Brace Tearout geometry to be calculated for wide flange brace connections.
- Corrected an error in the Plate Flexural Buckling for Column Web to Beam Shear tab where the stability plates were not taken into consideration for horizontal eccentricity.
- Corrected an error where the Rotational Ductility Check was reporting a negative maximum plate thickness for connections with only horizontal bolts.

Version 6.0 Enhancements / Corrections

- Seismic Detailing Checks added for Vertical Braced connections per *AISC 341-2010*:
  - Design checks for Ordinary Concentric Braced Frame (OCBF) connections per *AISC 341-10 section F1*.
  - Design checks for Special Concentric Braced Frame (SCBF) connections per *AISC 341-10 section F2*.
    - Linear or Elliptical gusset hinge line options to check the gusset plate rotation capacity/clearance.
    - Graphical view of the gusset hinge line in the 2D View.
  - Seismic braces simultaneously designed for tension and compression loading.
  - Automatic consideration of possible loading combinations (tension/compression) for connections with two braces.
  - Detailed output display of force distribution calculations (i.e. Uniform Force Method calculations).
  - Integration of seismic vertical brace connection types from RISA-3D models.
- Vertical Brace Enhancements:
  - Added wide flange brace member design.
  - Added the ability to input a brace workpoint eccentricity (vertical and/or horizontal) for Vertical Chevron connections.
  - HSS (tube and pipe) columns now available for Vertical Diagonal Brace connections.
  - HSS (tube and pipe) beams now available for Vertical Chevron Brace connections.
- Added design per the Canadian (*CSA S16-14*) steel code for the following:
  - Shear Tab connections to column or girder.
  - Clip Angle connections to column or girder.
  - Direct Weld Moment connection.
  - Flange Plate Moment connection.
- Added the MRE 1/3 Bolted End Plate connection for AISC and CSA design.
- Added 64-bit version capability:

- o The program will run in 64-bit addressing space, expanding Windows memory limits.
  - o Allows for increased program limits when running on a 64-bit operating system.
- Corrected an error in the moment load calculation at section b-b for chevron braces with braces above the beam.
- Corrected an error in the seismic moment connection Seismic Doubler Plate Strength limit state where one of the subchecks was incorrectly reporting a pass when the subcheck (and the overall check notification) was failing.
- Fixed an error in the seismic moment connection Seismic Doubler Plate Strength limit state where switching to two-sided web plates did not increase the capacity.