Release Notes for RISAFloor

Version 7.0.2 Enhancements/Corrections

Enhancements/Corrections

- Enhanced modeling with wood materials:
  - Revised dialogs for selecting and adding wood materials to be more user friendly.
  - Easier access to the Custom Wood Materials spreadsheet.
  - New dialogs allow the user to view/confirm the material design properties.
  - Updated the structural composite lumber design lists so that shape selections match proprietary products.
- Added the U.K. National Annex provisions to the 2005 EuroCode Hot-Rolled steel design (NA to BS EN 1993-1-1:2005).
- Improved design optimization of lateral members based on an envelope of gravity and lateral demands.
- Corrected an error where solving for footing design in RISA-3D under RISAFloor would cause the RISAFloor column detail reports to no longer be graphically selectable.
- Corrected a bug in Cold-Formed Cb calculations where Cb could change (conservatively) in a non-AISC Hot-Rolled steel code was selected.
- Corrected an error in the CF factor calculation for 12" wide members.
- Fixed an error in "Infill Beam" functionality while resolving the three infill beam choices(Bay Center, Green, Blue).
- Corrected an issue where 64-bit network clients were not displaying the Key ID in the Help-About dialog.
- Fixed values for H and HN sections in the Chilean Steel shapes database.
- Corrected a member optimization issue in RISA-3D under RISAFloor where RISA-3D would not recommend smaller shapes for members which were now well below failing due to a decrease in loads.
- Corrected the calculation of beam moment of inertia for vibration calculations of non-composite beams.
- Corrected the capacity of 10K1 joists in the steel joist database.
- Corrected an error where the program was incorrectly assigning camber to beams that were individually marked to be shored.
- Corrected an issue where some seismic wall loads were getting double-counted for walls with multiple regions.
- Fixed an issue that caused an error while using the Out-of-Plane-Flip tool on a wall panel.
- Corrected errors in the Chinese shape database for the following shapes: TM170X250 and TW150X300A.
- Fixed an issue with the spreadsheet axial code check value for masonry walls.
- Fixed errors with Hot-Rolled single angle local axes which caused negative reactions and forces.
- Fixed an issue that prevented the save of a dynamic solution in RISA-3D from under RISAFloor.
- Fixed an issue where RISAFloor would change the assigned member connection rules when new connection rules were added.
- Corrected moment diagrams for columns which have point-moments at their base due to a fixed beam at that location.
- Corrected an issue where outdated information was sent to RISAConnection from RISA-3D and/or RISAFloor due to inconsistencies.
- Moved some design optimization information from the results file to the model file to ensure consistent solutions even when results are not saved.

Version 7.0.1 Enhancements/Corrections

- RISA-Revit Link Updates
  - Compatible with RISA-Revit Link 2013 version 2
  - Added BIM ID's for RISAFloor slab openings.
  - Fixed a wall panel issue where changes made to walls would affect all walls except one.
- RISAConnection Integration
  - Corrected column connection orientation when using the RISAFloor/RISA-3D to RISAConnection integration. Previously the integration was always producing a connection framed to the flange.

- RISAConnection/Tekla Structures Link Updates
  - Added compatibility to support the upcoming release of the RISAConnection/Tekla Structures Link
- Cold-Formed Steel Updates
  - Added AISI provision B4 to the check of the flanges for weak-axis bending.
  - Added the full elastic computation for the "I_s" values in the AISI B4 provision.
  - Fixed an error in the calculation of S_{ey} for ZS shapes.

Version 7.0 Enhancements/Corrections

Enhancements

- Added 64-bit version capability.
  - The program will run in 64-bit addressing space, expanding Windows memory limits.
  - Allows for increased program limits when running on a 64 bit system.
- Added the ability to import a DXF underlay; Allows users to snap to the underlay when drawing members and walls.
- Added the AF&PA NDS-12 (ASD) wood code.
- Added the ACI 530-11 (ASD & Strength) masonry code.
  - Added many supplemental values and extra messaging to masonry wall detail reports.
  - Added option for masonry walls to define the wall area (RMEH or NCMA). Prior versions used only the Reinforced Masonry Engineer Handbook.
- Added the AISI S100-10 (ASD & LRFD)/CSA S136-10: LSD/CANACERO 2010 (ASD & LRFD) cold-formed steel code.
- Added the CSA S16-09 Canadian steel code.
  - Added code checks for Class 4 sections.
  - Added code checks for single angles for both bending and tension/compression.
  - Updated the Canadian steel database per the 10th edition manual.
- Added the NBC 2010 Canadian building code provisions.
  - Added wind and seismic load generation.
  - Added the load combinations (service and strength) to the Load Combination Generator.
- Added new RedBuilt I-Joist database per 2011 ICC report.
- Added the "Elevate Points" option to the Modify menu.
- Added new connection features for integration with RISAConnection 3.0
  - Added the AISC 360-10 (ASD & LRFD) code for RISAConnection integration.
  - Added support for slightly non-concentric braces.
  - Added new Connection Types to the Connection Rules spreadsheet.
- Reduced start-up times by using a faster shape-to-database comparison.

Corrections

- Corrected an issue that caused an erroneous deck span warning log message.
- Corrected an issue with the depth of deck value that caused erroneous results for the AISC Design Guide #11 vibration analysis.
- Corrected an error where deck definitions "Super DL" loads did not save with the file.
- Corrected a problem which caused columns using the "Orient to Point" feature to corrupt the results.
- Corrected a calculation error relating to minimum vertical reinforcement in concrete shear walls.
- Corrected an issue where an install path with long file / directory names could cause the program to fail to launch when using file association.
- Corrected some issues with concrete column optimization which could cause overly conservative code checks.
- Corrected an issue that caused the program to close if there were multiple members cantilevering over one another.
- Corrected a problem with RISA-3D clearing results when using the Director tool to switch between RISAFloor and RISA-3D.