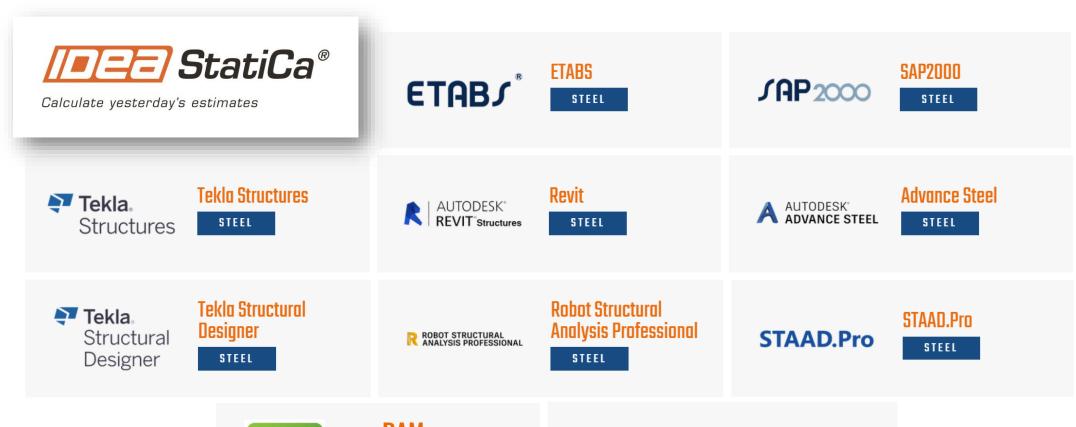
How IDEA StatiCa works with your other software? September 21, Noon - EDT





RAM Structural System



RISA 3D (SAF)



Agenda

- Type of links
- Demonstration
 - STAAD.Pro/ETABS
 - Tekla Structural Designer
 - RAM Structural System
 - RISA 3D
 - Revit/Advanced Steel
 - Tekla Structures
- Q&A





Type of link

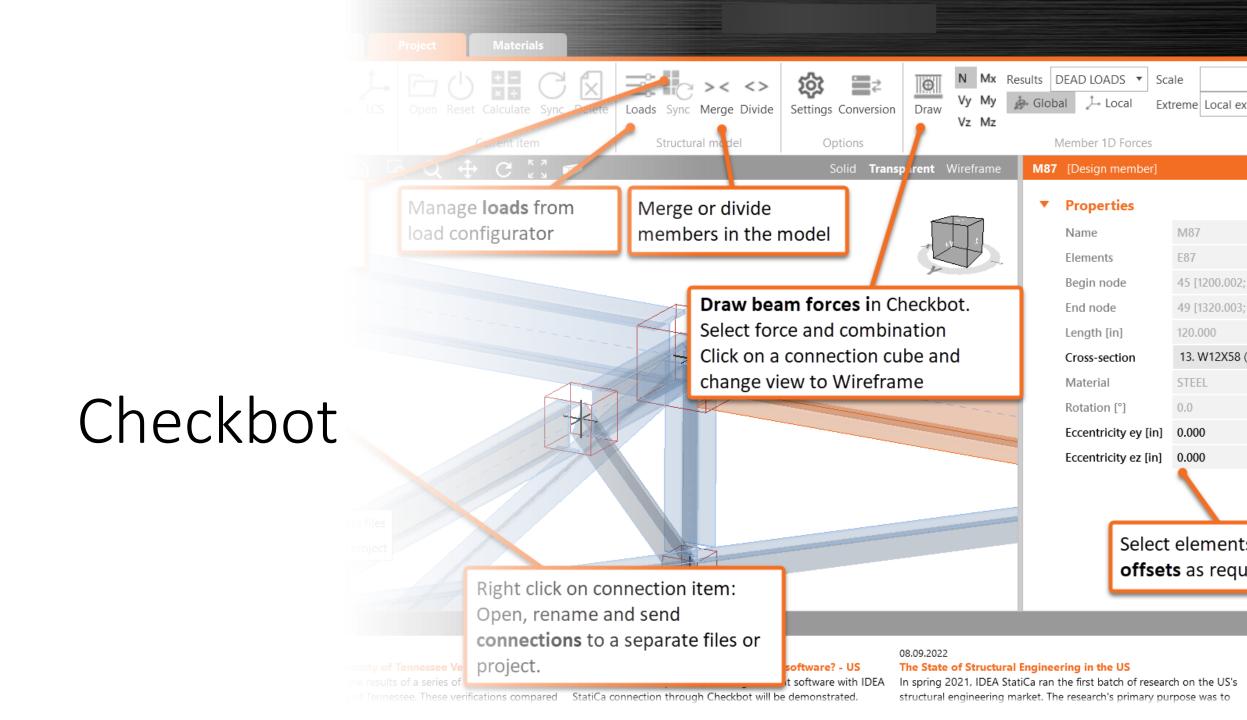
FEA

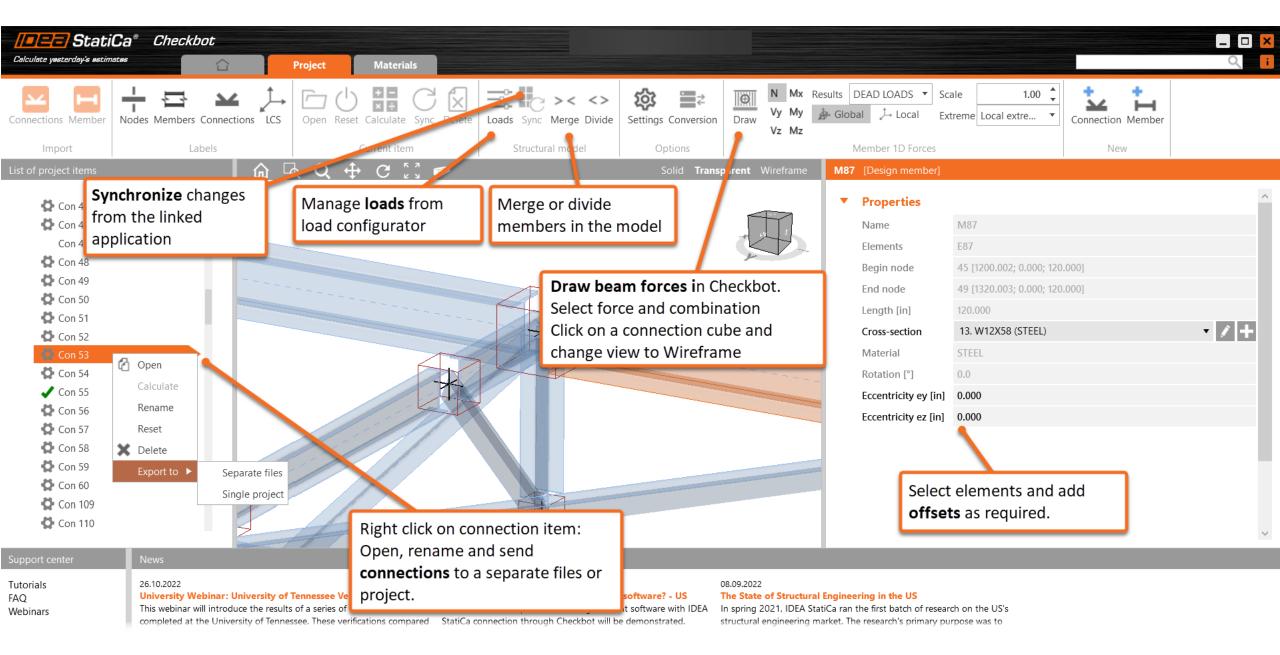
BIM

- STAAD.Pro
- ETABS
- SAP 2000
- Tekla Structural Designer
- RAM Structural System
- RISA 3D (Just geometry)

- Tekla Structures
- Revit
- Advance Steel









STAAD.Pro/ETABS/SAP2000



STAAD.Pro/ETABS/SAP2000

Highlights

- Loads and geometry
- Node and members keeps the same name
- Sync is available if analysis/model is modified in the main application
- Plugin is called from the application
- Full model or just some joints

Limitations

No offsets



Tekla Structural Designer



Tekla Structural Designer

Highlights

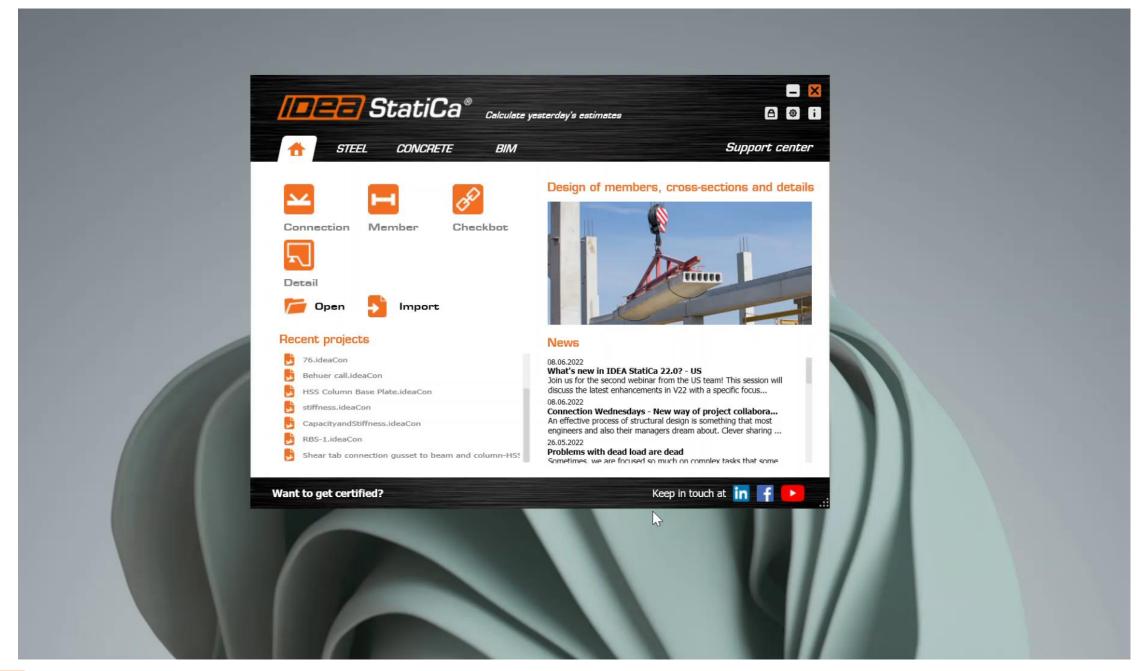
- Loads and geometry
- Improved link with 2022 SP2
- Connection with braces
- Multiple selection from Tekla Structural Designer
- Sync is available
- Tekla Support center

- Data is one-way from TSD to Checkbot.
- Large models



RAM Structural System







RAM Structural System

Highlights

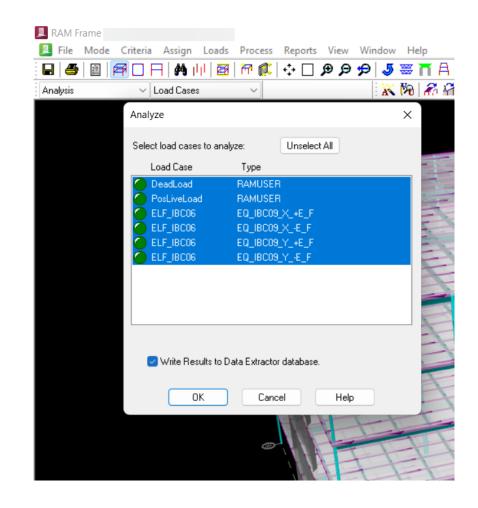
- Loads and geometry
- All the RAM SS joints imported in Checkbot
- Offsets imported, top of steel considered
- Available from V22 of IDEA StatiCa

- One time import, no sync is available
- Mapping is needed for some profiles (steel joist, C-beam, etc.)
- No partial import



Before importing...

- Database is closed and RAM Structural System in not running.
- A RAM Frame analysis is required
- 'Write Results to Data Extractor database' checked.
- The model should be saved once results have been completed.
- All elements should have a defined size.





RISA 3D



RISA 3D

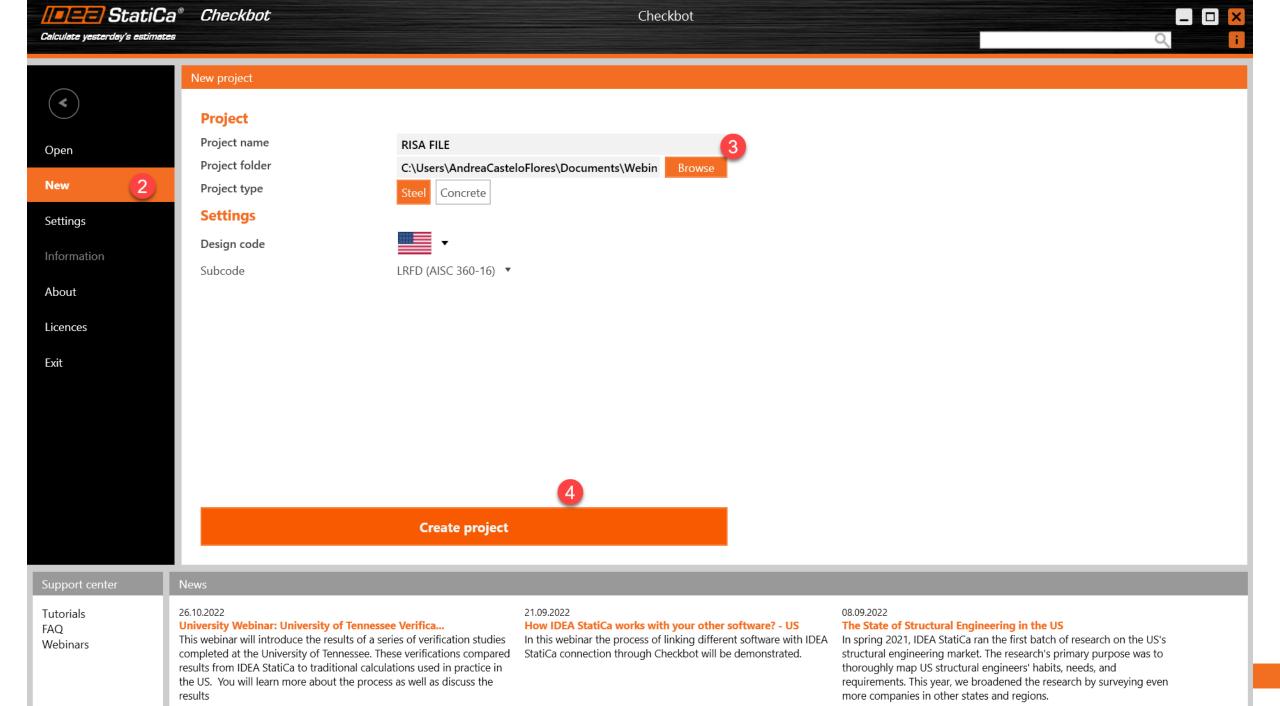
Highlights

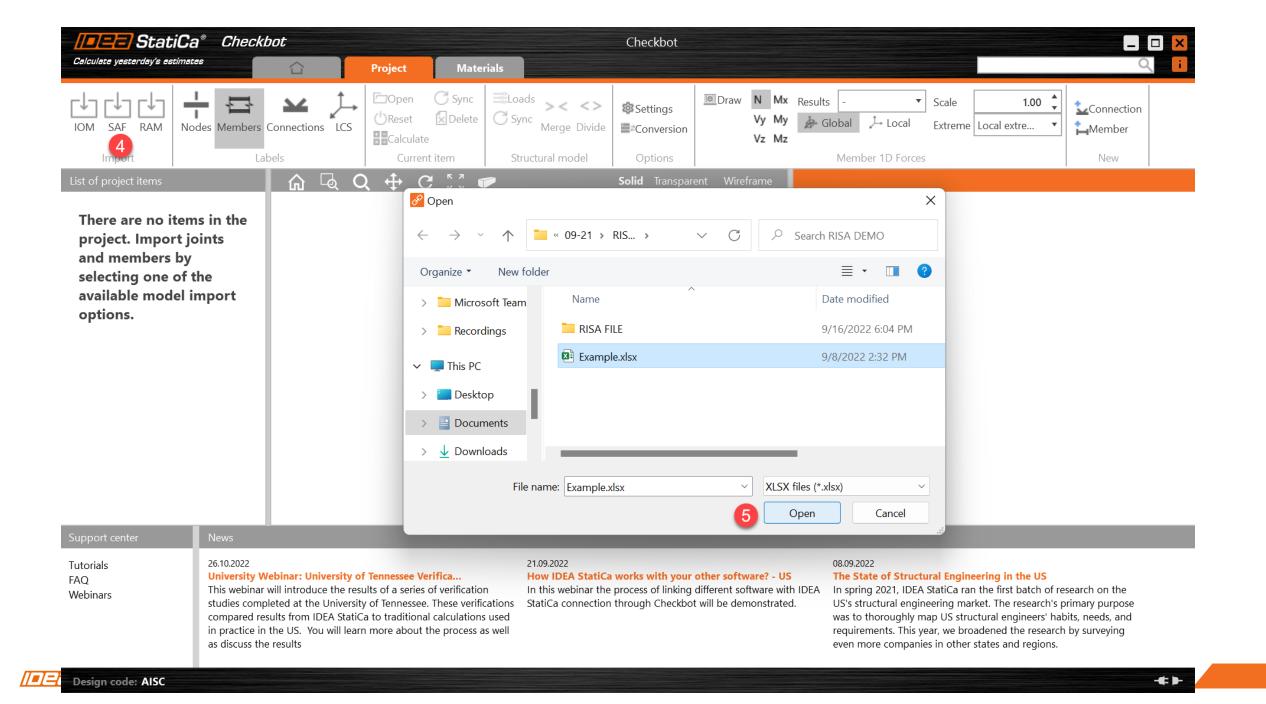
- SAF File import (.xlsx file)
- Geometry and materials

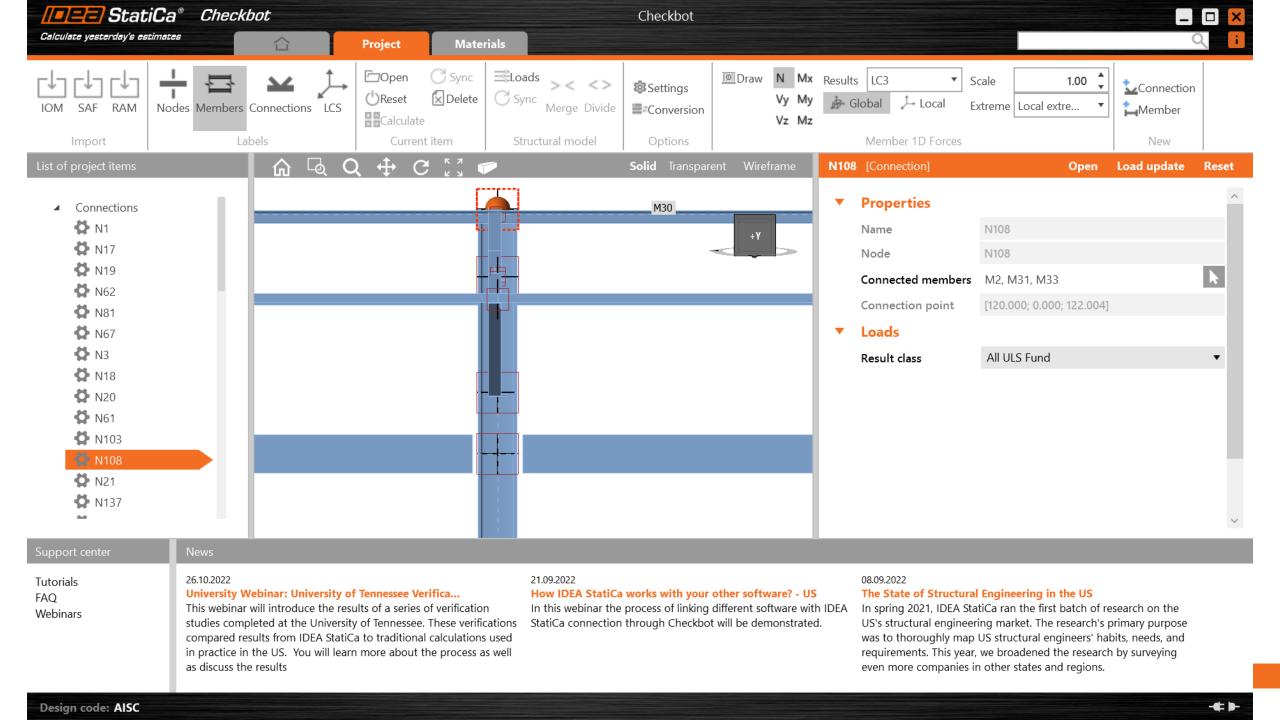
- No loads imported
- No sync available
- No offset



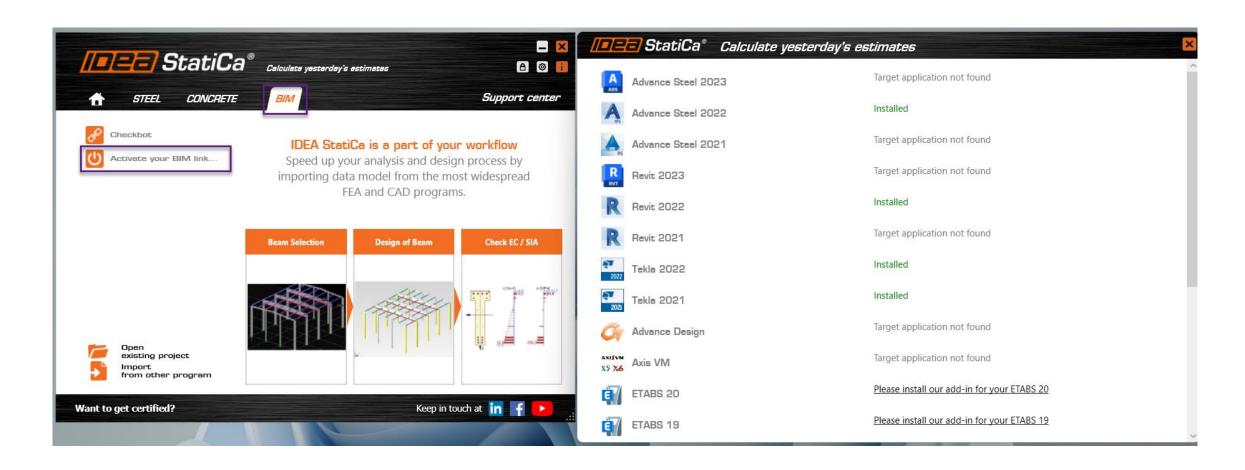








Automatic Plugin installation for BIM Links





REVIT/Advanced Steel



REVIT

Highlights

- Connection model imported from Revit
- If loads are model in Revit, also loads can be imported
- Assign general connections and finish your design in IDEA StatiCa

- A connection must be modeled in Revit
- One way link



Tekla Structures



TEKLA Structures

Highlights

- Connection model and geometry
- Sync is available
- Process:
 - Select node
 - Select members (support member first)
 - Select connection entities

- One way link
- Welded and composite crosssections are not supported.
- Some welds are not detected, use recommended weld option
- The anchoring import is not supported
- Bulk selection available in ID V22.1
- Workarounds for limitations



Q&A



Thank you



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