

Herk-de-Stad, 5 September 2011

The newest version of the structural design software Scia Engineer 2011 improves the user's experience of civil engineers and streamlines the modelling, analysis and design of engineering constructions with emphasis on Eurocodes and openBIM

A new version of the flagship of Nemetschek Scia, one of the world's leading developers of structural design, analysis and fabrication software, has been released. Scia Engineer 2011 is focussing on three main themes: user experience, Eurocodes and openBIM. It is a combination of essential requirements which makes the work of structural engineers more comfortable regardless whether they have to tackle unique challenging projects or basic engineering tasks of everyday practice.

User Experience

Scia Engineer version 2011 comes with numerous enhancements across the whole program. The main focus has been placed on the user experience by implementing new features and optimising the existing ones. These improvements will bring time-saving benefits to all structural engineers: regardless whether they work with concrete, steel or aluminium, regardless whether they handle simple or complex projects, irrespective of whether they design buildings, industrial plants, bridges or intermediate structures such as scaffolding.

Selection of new features:

Integrated table input: new integrated Table Editor – spreadsheet form allowing for input and editing of model data including Copy+Paste to/from MS Excel.

Calculation of sectional characteristics: (i) warping constant I_w by FEM calculation, (ii) plastic moment of a cross-section for asymmetrical cross-sections.

User-defined LCS for 2D members: possibility to define an arbitrary oriented local coordinate system, including the radial LCS, for all types of 2D members.

Graphical input of buckling lengths: input of buckling lengths is enabled in an interactive way within a graphical window.

Cross-sections: the library of cold-formed cross-sections includes manufacturers data for effective section properties and also new types of pair-sections and asymmetrical sigma sections.

FEM mesh access: direct selection of FE nodes.

Steel joists library and design checks (IBC): input and check of truss-like steel girders used to support floors and roofs that are very common in the USA and are often used as a part of a composite slab.

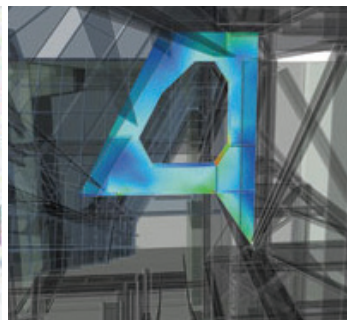
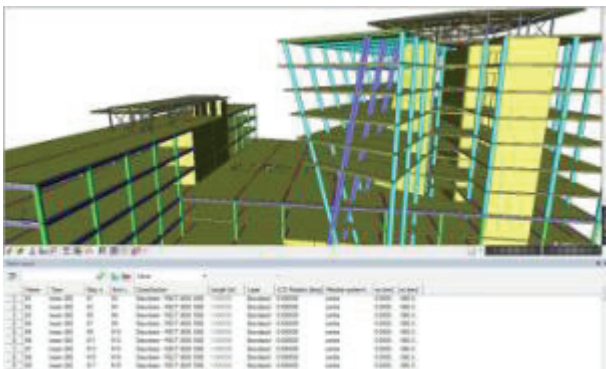
Battened compression members: battened members can be modelled exactly including the links and also checked according to EN 1993-1-1.

Crack calculations: crack calculation for 2D members (EC-EN) including graphical representation.

Decompression check: decompression check and calculation of limit values of crack width for prestressed concrete (EC-EN).

Extended documentation: new manuals with practical examples for concrete columns, reinforced slabs and post-tensioned slabs.

Aluminium design: aluminium scaffolding member check and interaction coupler check.



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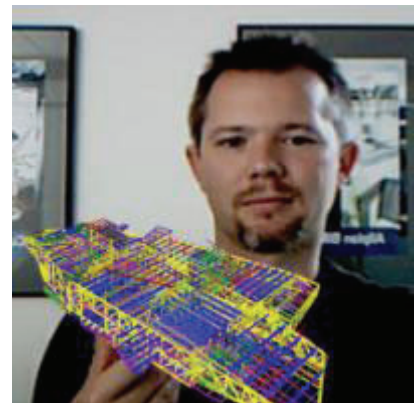
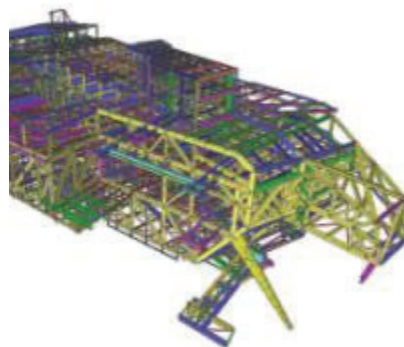
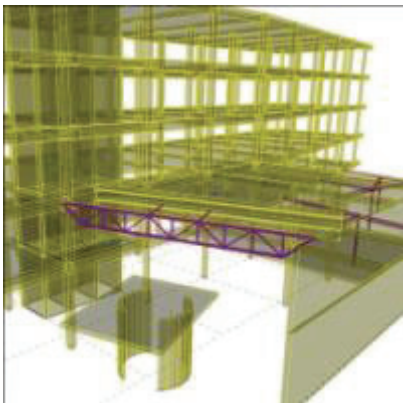


Free Scia Engineer Viewer: the viewer is available for all users without any protection. They can view the previously generated results on an existing model and take a look at the document.

Augmented Reality: an external augmented reality plug-in from ARMedia allows users to combine Scia Engineer 3D model with a live web cam in order to represent the model in a realistic environment. www.inglobetechnologies.com

Easy updates through the Internet: automatic update of user licenses from the Scia server.

Cloud Computing - Scia Desk: Scia Desk, optional cloud storage of user projects on a team file server, provides an unlimited cloud backup of data, easy sharing of project files, automatic synchronisation, safe and secure storage of project files and remote and mobile access to project files.



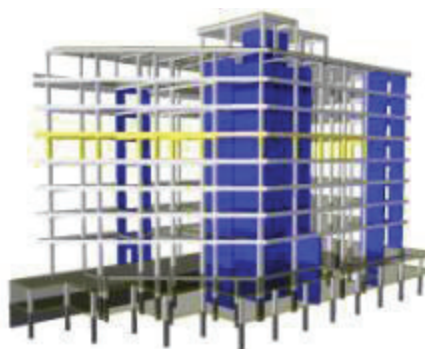
Eurocodes Leadership

The obligatory use of the Eurocodes started in most European countries in 2010. They gradually become the standard solution in engineering practice. Nemetschek Scia has been supporting the Eurocodes implementation from the start. But even more, Scia Engineer continuously follows the development in the field of these European standards from first hand. Scia Engineer version 2011 extends the set of implemented National Annexes and also integrates the latest corrections sheets.

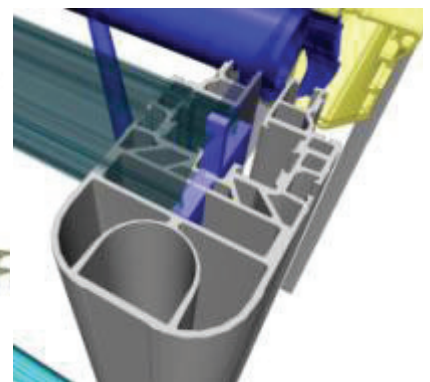
Selection of new features:

Seismic Design – ETools: In Scia Engineer several functionalities for seismic design are available. Capacity checks of concrete structures according to Eurocode 8 can now be performed in a stand-alone ETools application linked to Scia Engineer. (www.ectools.eu).

National Annexes: extended set of implemented National Annexes including latest versions and correction sheets - Belgium, Netherlands, Czech Republic, Germany, Austria, France, United Kingdom, Slovakia, Finland, Poland, Ireland, Greece, Slovenia, Romania.



Bluecenter Office Building, Belgrade



enabling innovation in construction

openBIM technology

Scia Engineer as a CAE-pioneer in Structural BIM continuously focuses on the overall interoperability with other open CAD/CAE systems. Many direct links with internationally wide spread CAD/CAE applications are available.

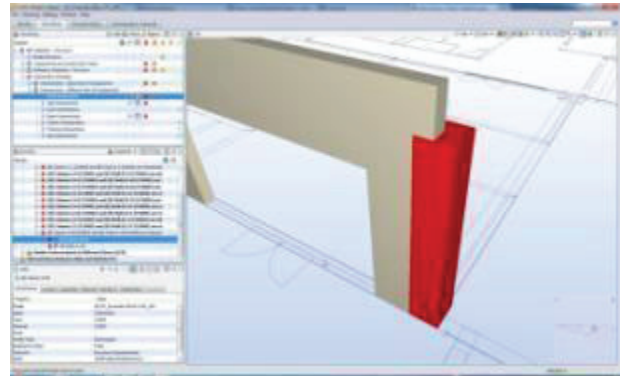
Using the openBIM approach, a structural engineer can easily control the process of data flow without affecting the working habits of others. The only extra step the other parties must do is run the import or export to the construction software industry standard IFC.

Selection of new features:

New BIM toolbox: collection of functions for seamless sharing of data between applications. It converts entities of a structural model to members of analysis model and vice versa. A new algorithm aligns individual entities to create a correct analysis model providing an immediate graphical preview and step-by-step control of the alignment process. The automatic clash check searches for possible collisions between entities.

IFC 2x3 enhancements: being the first IFC 2x3 certified CAE software, Scia Engineer continuously enhances its IFC interface.

Solibri Model Checker: is used to analyze BIM models saved in the IFC format for potential problems, conflicts, or design code violations. It also includes visualization, walkthrough, interference detection, model comparison, collaboration, and quantity take-off capabilities. (www.solibri.com).



About Scia Engineer

Scia Engineer is a software system for design, analysis and code-checking of engineering structures. Even though it has been primarily designed for structural engineers, it finds its application in other engineering fields too. Scia Engineer is versatile software that is used for the design of structures of any complexity: from a simple beam or plate, to a whole building, bridge or another type of construction, with a detailed analysis of the distribution of internal forces over time.

About Nemetschek Scia

Established in 1974, Nemetschek Scia has become one of the world's leading developers of structural design, analysis and fabrication software that supports the BIM process. Nemetschek Scia is a wholly owned subsidiary of Nemetschek AG -- a global leader in software that supports the Building Information Modelling (BIM) workflow.

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