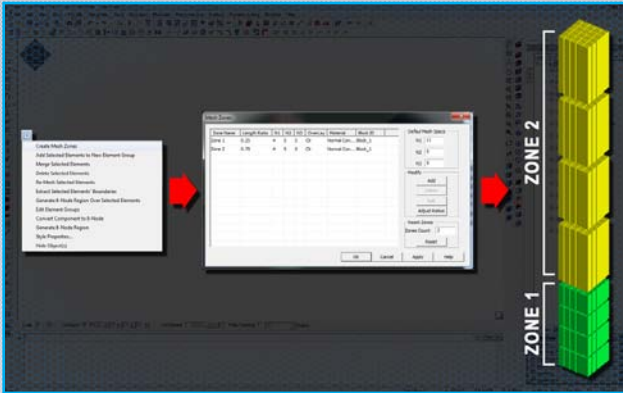


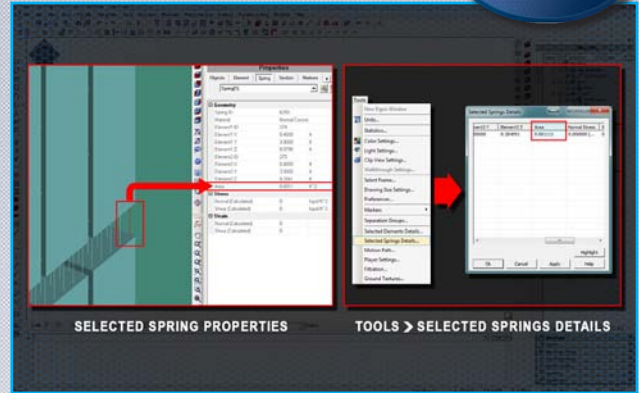
# WHAT'S NEW IN EXTREME LOADING 5

## FOR STRUCTURES



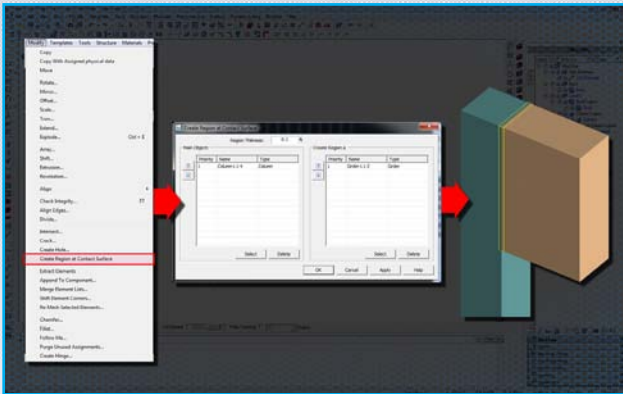
### Create Object Mesh Zones

Allow Users to easily create areas of fine mesh in areas where they expect stress concentration.



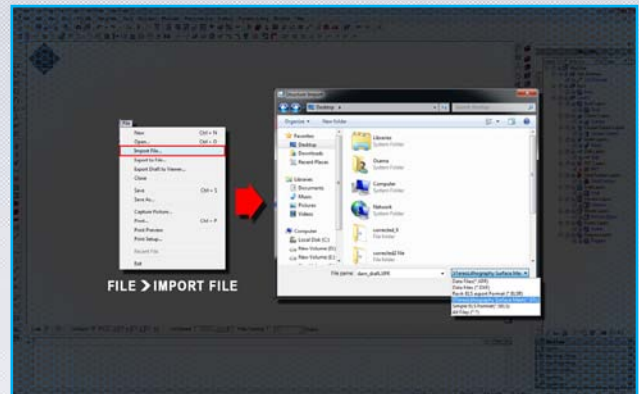
### View Spring Area in the ELS Viewer

Simplifies calculation of internal forces in springs.



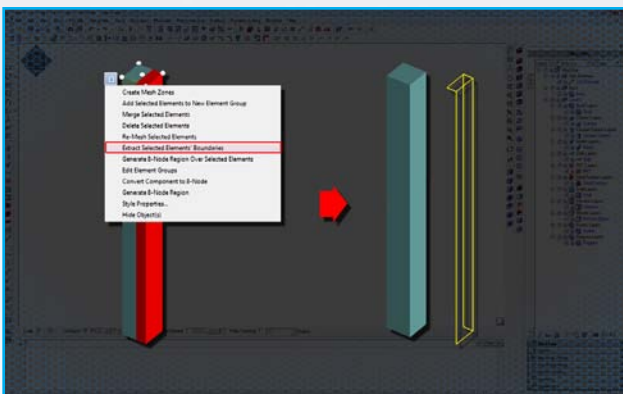
### Create Thin Regions at Contact Surfaces

Allows User to control the connection type between different structural components.



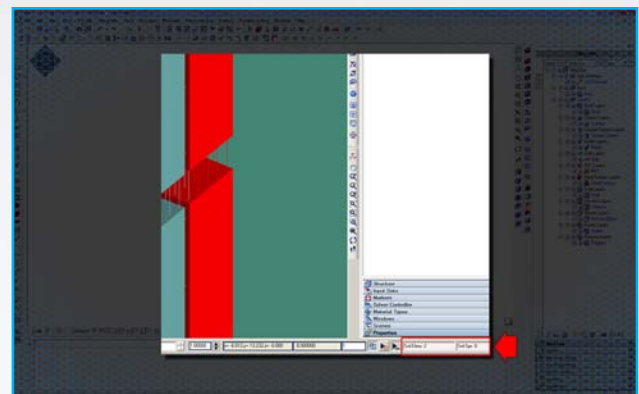
### Import STL File Format

Allows the User to import complex surface geometry from other software tools.



### Extract Objects & Elements in the ELS Modeler

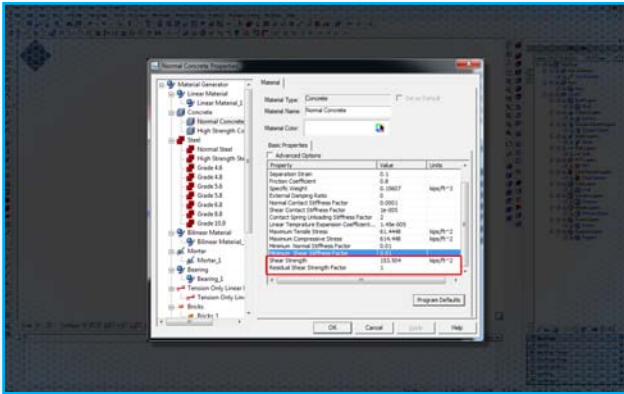
Allows the user to quickly control interaction between different components.



### View Number of Selected Elements/Springs in the ELS Viewer

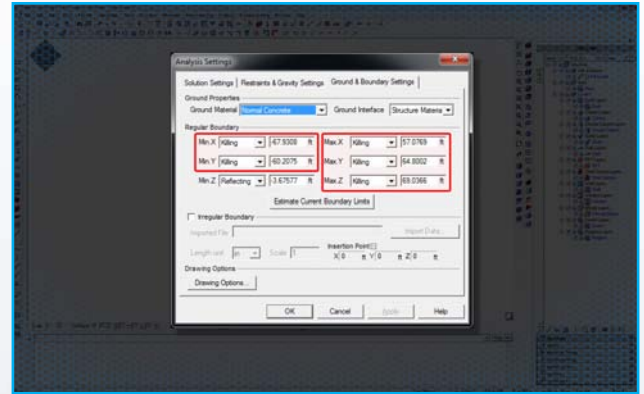
Simplifies the review of output in large problems.





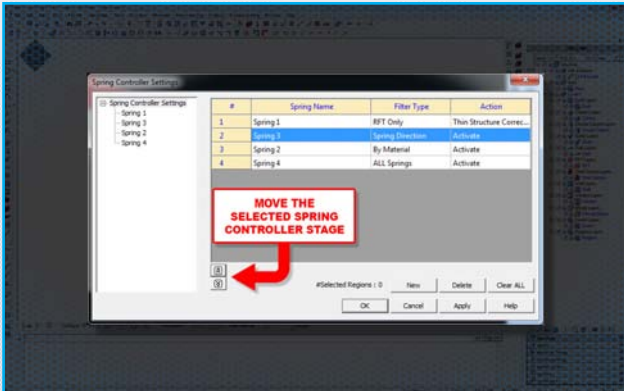
### Improved Material Models for Concrete, Mortar, Bricks, & Glass

Achieves more realistic behavior based on recently published research.



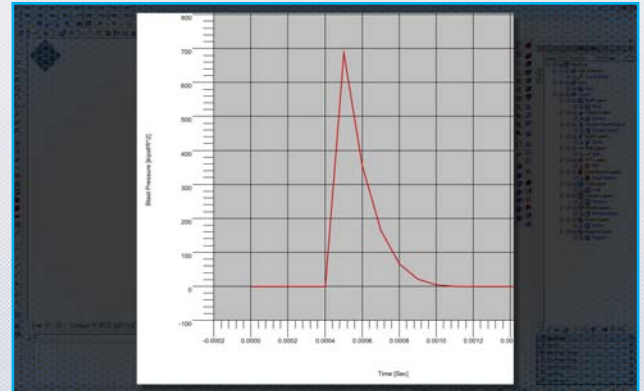
### Automatically Adjusted Killing Boundaries

Automatically deletes elements that fly away from the model beyond a certain limit to reduce computational requirements.



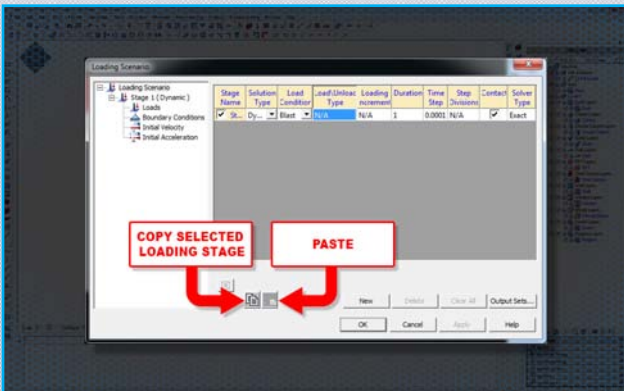
### Easily Re-Arrange Spring Controller Actions

Provides the User more control on the behavior of structural connections.




### Improved Blast Pressure Calculations

To better match blast pressure impulse calculations as provided in UFC3-340-02.



### Copy & Paste Loading Scenario

Allows the User to quickly create multiple complex stages of loading.



ELS CLOUD

The ELS Cloud provides users the flexibility of creating models on your local desktop and the solving speed of a high performance computing environment. By providing you with the tools to easily create full 3D models for nonlinear structural dynamic analysis and the processing power to solve complex 3D nonlinear dynamic structural simulations, we give you the freedom to imagine new possibilities for performance based design and build a better future for us all.

Find Out More About the Cloud at:  
[www.extremeloading.com/software-modules/els-cloud](http://www.extremeloading.com/software-modules/els-cloud)



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