

#### Easy 2018 Release Notes

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#### Installing

- Please note that installing Easy Release 2018 will not overwrite an older (2017, 2016, ...) existing installation of Easy. You can use Easy 2018 and an older release of Easy on the same computer.
- Easy Release 2018 requires a new password!
- Easy 2018 is not downward compatible (with Easy 2018 you should not open Easy 2017, 2016, ... projects). See Easy General remarks.

#### **Known Issues**

This list covers some of the known problems with Easy 2018. Please read this before reporting any new bugs. There are no known issues at the moment.

#### What's new in Easy Release 2018?

Easy – General remarks			
All modules	Easy 2018	We simplified the module Statical Analysis and Volume Statical Analysis by eliminating the menu item "Static mode". This means we do not distinguish between "Static Analysis" and "Static Analysis – extended". Because of the union of the general and the extended statical	
		analysis, it is not possible to continue old projects (2017, 2016,) without adapting the startup files. We advice you to finish old projects with a previous release (2017, 2016,) of Easy.	



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Graphical Editors			
Module	Туре	Description	
Tailor	New	Additional points and links from an EIN file can be added to the patterns automatically. Precalculation:  Additional Points/Links (not in CUT/GROW mode) EIN file: Projection: Projected	
Tailor	New	Compensation and seam allowance graph revised:	
Tailor	New	Dxf export: Optional export of warp directions as lines:	



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GED	New	Select/Topology Check: Searches for point with short distances to other points and link. To be used to find topology problems:	
GED	New	Edit/Options/Use selection dialog when objects are overlapping: Enables/disables the selection dialog at the selection.	
GED	New	Stressvu: Visualization of equivalent stress	
GED	New	Stressvu: "Ignore T -elements" also affects the calculation of shear/principal/equivalent stress	



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Beam Editor	New	RSTAB: Import of joints/fixities:         Import from RSTAB model         This Function imports materials and cross sections from RSTAB and updates the existing materials, cross sections and the assignment of links and cross sections in BeamEditor.         Select RSTAB Model:       Namenlos         Import Point Fixities and Beam Link Joints         Ok       Cancel
Beam Editor	New	Dataexchange with SCIA Engineer via XML:         SCIA Engineer Interface       ×         Export       Ignore Visibility         Other Axial Force Links       Only Export Visible Objects         Beam Links       Internal Forces         Node Supports/Hinges       Fix all Points         Export Local Coord. Systems       Internal Forces         Only Current Load Cases:       Loadcase 1         Selected Load Cases:       wind         Write XML File       Write XML File         Import       Node Supports/Hinges         Staterials/Cross Sections       SciCiA Profile Library:         Close       Help



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FormEdit	Enhance ment	For the calculation of the initial values for a volume formfinding we are now always using a mechanical formfinding calculation. This better in case there is a big difference between zusn.ein and the mechanically stressed formfinding result.	
FormEdit	Enhance ment	If a cone was defined in FormEdit and no struts were combined with this cone then the cone did not exist after the calculation in EasyShell. The calculation (cone) was existing if calculated in FormEdit.	
FormEdit	Bug fix	Mesh offset for radial nets: Mesh offset Value type Factor Absolute value Values (factor of mesh size) Angle: 0.3000000 Length: 0.5000000 The value type "Factor" did not work porperly	
FormEdit	Bug fix	The direction of the first radial "thread" (black vector) works now properly:	



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FormEdit	Enhance ment	We changed the default value for the 2000-lines in case of radial nets from 7.5° to 5.0°  Type properties Estimated stress: 1.300000 Mesh settings 2000-lines 1000-lines Angle: 5.000000 [°] Length: 0.500000 Force: 0.500000 1.300000 1.300000
FormEdit Enhance ment	We changed the default value for "Number of ringpoints" and the "User defined number of ringpoints" in case of radial nets. Number of ringpoints Old value: By mesh New value: By user User defined number of ringpoints Old value: 16 New value: 32	



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FormEdit	New	Open and/or Add Dwg/Dxf files in FormEdit: The files can be used as background files as it worked already for ein files. The dwg/dxf cannot be manipulated and saved in FormEdit. In order to save/manipulate dwg/dxf files GED has to be used.
		FormEdit D/2_Projekte/Easy/_Temporaer/OffseTest1 File Edit Select View Help New Ctrl+N Add Polygon-file Save as Import Bit D/2_Projekte/Easy/_Temporaer/Off: Eile Edit Select View Help New Ctrl+N Open FormEdit D/2_Projekte/Easy/_Temporaer/Off: Eile Edit Select View Help New Ctrl+N Open File. Bit Bit Select View Help New Ctrl+N Open File. Ddf/Dwg-file Ddf/Dwg-file



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Easy Shell		
Module	Туре	Description
Shell	New	Union of the general and the extended statical analysis.: We simplified the module Statical Analysis and Volume Statical Analysis by eliminating the Button "Static mode". This means we do not distinguish between "Static Analsysis" and "Static analysis – extended". The menu item "Static Mode" is removed.
Shell       New       The Easy user has to define the material properties of the Apply materials (right mouse click) on button "Formfine This implies that the material properties are already definembrane material data base.         technet offers membrane material default values within definem.xml in the Easy installation folder.		technet offers membrane material default values within the file defmem.xml in the Easy installation folder.
		The Easy user should define his own data base with real values. In general we define 4 values: EWarp, EWeft, ECrimp and EShear with
		the units [force/width]. In case that ECrimp and EShear are both zero it works as the non- extended mode in Easy 2017.
		The programs Emodul, Dismem, Materi, Statik and Volstan are reading in all cases a MTM-file.



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Shell New	New keyword WAITFOR in batch jobs: The batch jobs starts an exe, bat, cmd file and waits until this process has finished (example: WAITFOR EasyTailor.exe –eSTComp.ein –bTest.dxf).
Shell New	Batch jobs can be executed in all sub folders of the current project. This feature is hidden in the drop down menu of the "Start" button:
Shell New	Volume Statical Analysis: New context menu item for the "Result" buttons: "Execute DreiEin and open DREIEIN.EIN in Graphical Editor" Open VOLSTANX.EIN in graphical editor Open VOLSTANX.EIN + DISMEMX.ANG with Stressvu Open VOLSTANX.OUT with text editor Open VOLSTANX.EIN + DRUCKN.LAS in graphical editor Execute DreiEin and open DREIEIN.EIN in Graphical Editor
Shell New	<text></text>



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Calculation programs			
Module	Туре	Description	
Emodul, Dismem, Materi, Statik, Volstan	New	In case that ECrimp and EShear are both zero it works as the non- extended mode in Easy 2017. The programs Emodul, Dismem, Materi, Statik and Volstan are reading in all cases a MTM-file.	



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## System Requirements

#### Operating systems

- Windows 10 (current service pack) 64-bit
- Windows 8.1 (current service pack) 64-bit
- Windows 8 (current service pack) 64-bit
- Windows 7 (current service pack) 64-bit

#### Minimum Hardware

• A graphic card with an OpenGL accelerator is strongly recommended.