

## **LUSAS 18.1 Error Fix and Modification Release Notes**

This document lists modifications, other than the New Features in 18.1, that have been made since LUSAS 18.0-5 and is correct as of 5<sup>th</sup> Jan 2021.

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### **Version 18.1-2 Built 4<sup>th</sup> Jan 2021**

#### **LUSAS Modeller 18.1-2 (36428)**

##### **Errors fixed**

The following critical, major or minor issues are fixed in V18.1-2.

Modeller 'unable to determine architecture' of results files created after 31/12/2020 (28288)
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#### **No changes to Solver (6808)**

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### **Version 18.1-1 Built 3<sup>rd</sup> Dec 2019**

#### **LUSAS Modeller 18.1-1 (32867)**

##### **Errors fixed**

The following critical, major or minor issues are fixed in V18.1-1.

Extreme Values Diagram For Envelope - Incorrect Load Combination Referenced in Annotation (26677)
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Crash from Enveloping Slice resultant when envelope contains a basic combination (26670)
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Vehicle Load Optimiser: calculations include unselected vehicles (26700)
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IMD - 'Include Modal Damping' Box Ignored When V15 model opened in V18 (26614)
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#### **LUSAS Solver 18.1-1 (6808)**

##### **Errors fixed**

The following critical, major or minor issues are fixed in V18.1-1.

None

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### **Version 18.1-0 Built 19<sup>th</sup> Nov 2019**

#### **LUSAS Modeller 18.1-0 (32672)**

##### **Errors fixed**

The following critical, major or minor issues are fixed in V18.1-0.

Prestress loss calculations: correction to the tendon relaxation loss in IRC:112-2011 (26634)
Opening 'Model Properties' dialog in LT version (USB key) causes Modeller to close unexpectedly (26593)
Transformation 'None' allows averaging even when results are in Element Local direction and should not be averaged (26531)
Stress contours incorrect for infill sections (26507)
Infill section properties not updated when material changed (26505)
Reactions from restart analyses unavailable in Modeller when model and results files are re-loaded (26452)
Restart analysis fails when using 64-bit Solver (26419)
RC Frame Design - crash when turning on Contours/Values layer - reinforcement with 0cm dia bars (26390)
Vehicle load optimiser: JTG D60-2015 impact allowance should be applied to lane loads (as well as vehicles) (26338)
Prestress loss calculations: allow choice of some/all tendons in the reporting function (25657)
LPI scripting options not available for Bridge >Time Management (23937)

A number of fixes for cosmetic issues, documentation issues, installation issues, and development requests are also provided in V18.1-0. Users with a reference number provided by LUSAS Customer Support may identify these from the following list:

26518, 26490, 26476, 26422, 26333, 26168, 25694, 25176, 24809, 24197, 19998

## **LUSAS Solver 18.1-0 (6788)**

### **Errors fixed**

The following critical, major or minor issues are fixed in V18.1-0.

Restart analyses: time steps specified in days reported in seconds in the results (26426)
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