New Features in TIM 2019-0-3

Short description of new functions
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1 Welcome

Dear Sir or Madam,

Welcome to the future! TIM - the visual information tool for the precast concrete industry - provides you with everything you need to get the job done - be it virtual planning of production, delivery or assembly. TIM 2019-1-3 comes with a lot of new features, making your work even more efficient and effective.

For example, you can print directly and define rights for processes. More new features in TIM 2019-1-3 include stack management and quality manager.

We wish you every success!

PRECAST Software Engineering GmbH Puch bei Hallein, April 2019
2 Help system
The help system has been improved. The English help is now completely available in English.

3 Reports in Metric and Imperial Systems
Reports can now be created in both metric and imperial measurement systems. To do this, choose the appropriate measurement system in the report settings. The metric system is set by default.

4 Import of NTF files
When importing NTF files version numbers are relevant. Each TIM software version is capable to import NTF versions with older release dates. The release date of the NTF version must not be younger than the release date of TIM version.

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<th>NTF-version</th>
<th>NTF-release date</th>
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</thead>
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<td>21.05.2013</td>
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<td>04.05.2016</td>
</tr>
<tr>
<td>1.21</td>
<td>24.08.2017</td>
</tr>
</tbody>
</table>

5 TIM process without process step
In order to offer processes such as status changes in certain TIM modules and, if necessary, only grant authorization to certain employees, it is now possible to create processes without process steps and assign a process action to them

6 PTS Service – delete result for a new query
Two new buttons in the menu are available in the Report and Production Manager module: Delete all PTS results and Delete incomplete PTS results.

7 PTS Service results are available in UltraList
The results of a PTS service request are now also at your disposal in the UltraList and in the TIM Quality Manager module. The PTS results are also available as variables in the Quality Manager.

8 Precast element
In addition to the elements ceiling/wall, constructive precast element and the "Precast Element", which can be imported from Planbar via NTF project file, is now available
in the TIM. For further details on the "precast element" please refer to the PLANBAR help.

9 mTIM

Various improvements have been made to the configuration and the mTIM app:

- mTIM: App versions, once defined as APP Min version, can now be deleted again.
- mTIM: The description of an mTIM app version can also be edited retrospectively.
- mTIM: The new mTIM app 1.65 is available.
  - displays status information more clearly
  - bug fix in status update
  - improvements in dialogs
- Different modes of display (such as reinforcement, fixtures) are now available in the mTIM module too.

10 IFC4precast export

The following extensions / improvements according to the current specification of IFC4Precast have been implemented:

- The stacking information of the elements is now also written out.
- The Actor concept (object class "ProjectActor") was implemented for the following partners:
  - Contracting Authority
  - building contractor
  - client
  - construction project
  - Invoice (NEW = INVOICERECIPIENT)
  - Delivery (NEW = DELIVERYRECIPIENT)
  - Edited By (NEW =EDITOR)
- The attribute "Contract Number" is exported to the property set "PropertySet IFC4precast_CommonAttributes.
- The export of bendings of reinforcement bars has been corrected.
- Fixtures are now exported as complete 3D bodies, if defined as 3D fixtures.
- The object ifcOwnerHistory is no longer exported because it does not correspond to the current specification of the IFC4precast.
- Mounting parts with the mounting part classification "virtual", which are transferred from PLANABR to TIM, are not considered in the IFC4precast export. This means that built-in parts can be excluded from the export. The configuration is carried out in the PLANBAR installation parts catalogue.
Formwork sides and clean edges are exported as IfcSurfaceFeature
11 Improvements & Corrections

The following minor improvements and corrections are included:

- **NTF**: Wall connectors will be included in the NTF and can subsequently be displayed in TIM.
- An error that occurred while decrypting NTFs has been corrected.
- The updated TIM documentation and help can be accessed from the TIM main menu.
- Improvements in the 'cutting list'.
- Bug fix in the factory settings, related to bed checks and user defined element type names working together.
- The display of the project navigator has been adapted: nodes with no drawing files assigned will be not visible.
- The material of concrete layer for the in-situ concrete has been corrected.
- Some English language descriptions in the process definition are now completely available in German.
- **CPI Export**: Now also built-in parts are included in the export.
- **TIM AppService**: If the user is enabled during the AppService configuration, the login data is verified before it is written to the AppService Config File.
- **TIM Database Update**: During the installation of a new TIM version, the TIM database will also be updated. During this process, a bar now shows the progress of the update.
- Fixed of an update problem caused by a wrong date in the update file.
- In the process step ‘Print’ menu and dialog are provided, by which the ‘Subject’ of the email can be defined.
- When defining file names (element data export, PDF export, printing process), the attribute "Project number" can now also be used.
- When defining file names, the attribute "Floor name" is now filled correctly from the building structure again.
- In the Quality Manager, rules that referred to the element type were not evaluated correctly. This error has been corrected.
- The following additional attributes are available in the UltraList and in the Quality Manager:
  - **Palette Position**: Specifies the position (sequence) of an element on a production pallet. The order is determined based on the center of gravity of an element first in the x-direction and, if identical, in the y-direction.
  - **Phase-Sequences**: Specifies for each phase type in assembler (contract phase, production phase, delivery phase, assembly phase) the order of an element within the corresponding phase.
- The reports "Pallet plan", "Table planning - horizontal" and "Table planning - vertical" produced different results, depending on whether they were called up in the process step "Direct printing" or as a report. This error has been corrected. Note that the graph may be displayed on a subsequent page.