NEW RELEASE - URBANO 9.3.2

List of new features and resolved problems

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General information

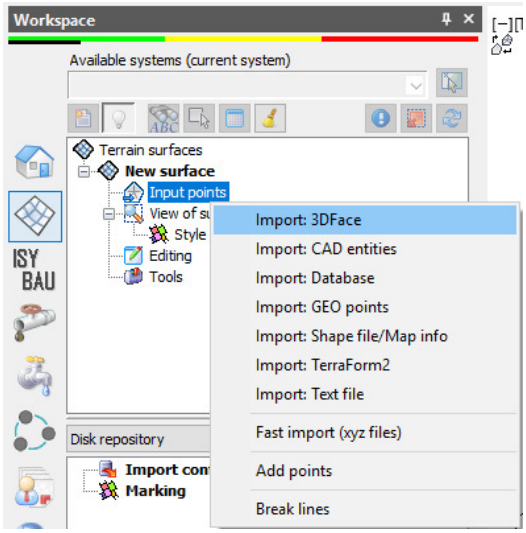
Urbano 9.3.2 supports following CAD platforms:

- **AutoCAD / Civil3D / MAP3D 2015 64-bit**
- **AutoCAD / Civil3D / MAP3D 2016 64-bit**
- **AutoCAD / Civil3D / MAP3D 2017 64-bit**
- **AutoCAD / Civil3D / MAP3D 2018 64-bit**
- **AutoCAD / Civil3D / MAP3D 2019 64-bit**

1 New features

1.1 Terraform – Importin 3DFace elements

In Terraform, Urbano module for creating digital terrain model, it is possible to create DTM (surface) from existing 3DFace elements. The program won't use those elements to create triangulation, but it will use them as they are.



1.2 Intersection analysis

1. Intersection analysis functionality has been significantly improved, which results in much faster performance, especially for calculation of intersection with CAD entities.
2. In Profile, it is possible to show intersections with group of CAD entities in the profile with the same color of the layer of CAD entities, similar as it is the case with Urbano systems.

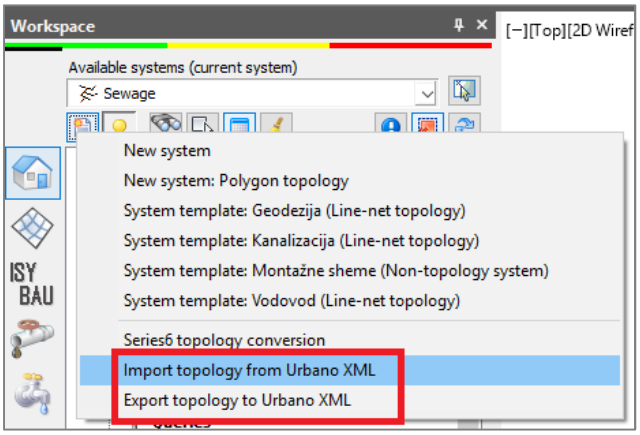
1.3 Conversion of CAD elements

Option "Draw additional points" has been added. Until now, the option wasn't available and the program has always been drawing additional points if DTM has been chosen within the function of the conversion, it wasn't possible to turn it off.

1.4 Import/Export (Urbano) XML file

1.4.1 Functions were renamed

Commands for Import/Export Urbano topology from XML file format have been renamed to **Import topology from Urbano XML** and **Export topology to Urbano XML**, to avoid possible confusion with the LandXML file format, that uses XML extension as well.



1.4.2 Import of polygon topology

Import of polygon topology from (Urbano) XML has been speeded-up significantly.

1.5 Invert data (descriptive)

New data is available Invert elevation (descriptive) and Invert depth (descriptive). This data will show all invert values in a node, sorted from highest to lowest values. The data can be added to node table, node label, profile table.

1.6 Raster manager – Support for JPEG2000 (JG2) format

JPEG2000 file format can contain geo-reference information in the header. In the case like that, no WORLD file is required. **Supported**.

1.7 Turkish extension – CBS Export

For CBS Export, pipe diameter values are exported in [mm]. For box section (rectangular), width and height will be exported in [m], since this is the way how it has to be imported to CBS (GIS database of ISKI).

2 Repaired problems

2.1 Terraform

New surface – Import points: CAD entities. Function window takes too long to open, or it doesn't open at all if there are many layers and blocks stored in the drawing. (The problem is related to large number of orphaned linetypes created in older CAD versions. it is common on CAD 2013, and it is possible to remove it by using PURGE command. At that point, the program removes those obsolete objects, with the message: „ Purging orphaned DGN data “.) Function has been optimized, and will open quickly in new version, even if previously described problem still persists in the drawing. **Repaired.**

2.2 Longitudinal sections

1. Conversion of older longitudinal section configuration to new version (command ARS_LS_DEFCONVERT9091) does not convert row height properly, in case in previous version the row height was defined within the data header. **Repaired.**
2. Program does not draw manhole label connection lines in longitudinal section in case when label shifting has been turned on. **Repaired.**

2.3 Hydra

1. Water demands – Assigning water demands for inhabitants (% method) and Qspec method didn’t work properly in case when option “By branches**”** was turned on. The program didn’t sum half of demand from one branch with the half from the other, rather saving demand from one branch only. This caused total water demands to be different than total flow. **Repaired.**
2. Time pattern – It is possible to create the pattern, but the program doesn’t save it. OK button didn’t work properly. When re-opened, the pattern would be empty. **Repaired**.

2.4 Import /Export from Urbano XML

1. If the user tried to import polygons from (Urbano) XML, where certain polygons had the same names as those already in the drawing, the program would not import them nor show an error. **Repaired.** In new version, the program will add suffix "_#" and import those polygons as well.
2. System command started after running import from Urbano XML, program shows an error and closes unexpectedly. **Repaired.**
3. When exporting system with house connections to Urbano XML and importing the same XML to another file, the program breaks branches in nodes where house connections are connected with the main system and turns those nodes to main. **Repaired.**

2.5 Import / Export – Other formats

1. Import/Export of Urbano system to/from C3D pipe network – function doesn't work. Problem was related to version 2018 and 2019. **Repaired.**
2. Import/Export of Urbano system to/from SHP format. It is possible to configure import/export, but when running export, the program doesn't configure any file. Import doesn't work as well – program doesn't recognize SHP files that contain data. Problem related to version 2019. **Repaired.**
3. Export to Navisworks file (NWC) and IFC. Manhole Round manhole, round opening-angle, not exported properly to NWC i IFC in case the open was defined as eccentric. **Repaired.**

2.6 Additional and elevation points

1. Clicking on REINDEX button (on top of the Workspace), the program sometimes removes additional (and elevation) points. REINDEX command sometimes run automatically, so the user doesn't notice that the points were removed. If the user saves the file, the points will be gone.

2.7 Delete Urbano system

1. When deleting Urbano system, the program sometimes show an error and closes unexpectedly. **Repaired.**