

Årsmøde 2019 Bentleyuser.dk





THE YEAR IN INFRASTRUCTURE 2019 CONFERENCE

## **WHAT'S NEW?**

#### **MicroStation**



With the MicroStation CONNECT Edition Update 13, you can speed and simplify the task of migrating your standards for use in CONNECT Edition. Now, it's easy to shorten the learning curve while adding powerful new capabilities for managing digital components and improving the realism of your visualizations. We have included some great features in the latest version.

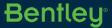




## MicroStation CONNECT Edition



### migrating your standards







Configuration Assistant now helps facilitate your upgrade to MicroStation CONNECT Edition. Simplify the migration of legacy workspaces to CONNECT Edition Configurations.

K Configuration Assistant			– 🗆 X
Configuration			
Select V8i WorkSpace	Overall Migration Progress	9 Successful	0 Failed
Select V8i Users	O User - Administrator		
Select Destination	Project - Project_A Project - Project_A migrated successfully	Project - Project_B Project - Project_B migrated successfully	$\odot$
Migration Process			
	Project - Project_C Project - Project_C migrated successfully		
	⊙ User - DesignDrafter		
	Project - Project_D Project - Project_D migrated successfully	Project - Project_E Project - Project_E migrated successfully	$\odot$
	Project - Project_F Project - Project_F migrated successfully		
	(A) User - ProjectManager		
			Previous Finish







#### V8i WorkSpace



Interfaces



**Projects** 



Standards



System



User

#### **CONNECT Edition Configuration**



Organization



WorkSpace

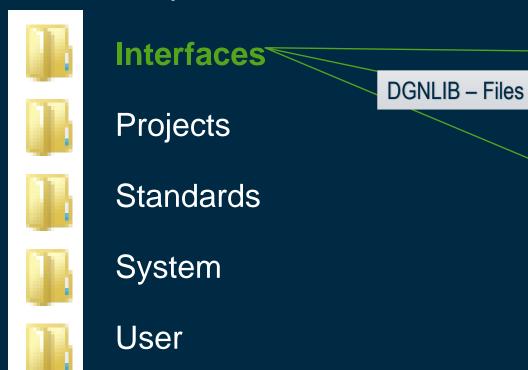








#### V8i WorkSpace



#### **CONNECT Edition Configuration**



Organization

WorkSpace







#### V8i WorkSpace



Interfaces



**Projects** 



Standards



System



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### **CONNECT Edition Configuration**



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WorkSpace









#### V8i WorkSpace



Interfaces



**Projects** 



**Standards** 



System



User

### **CONNECT Edition Configuration**



**Organization** 









#### V8i WorkSpace



Interfaces



**Projects** 



Standards



**System** 



Modified files only!



User

#### **CONNECT Edition Configuration**



**Organization** 



WorkSpace









#### V8i WorkSpace



Interfaces



**Projects** 



Standards



System



User

### **CONNECT Edition Configuration**



Organization



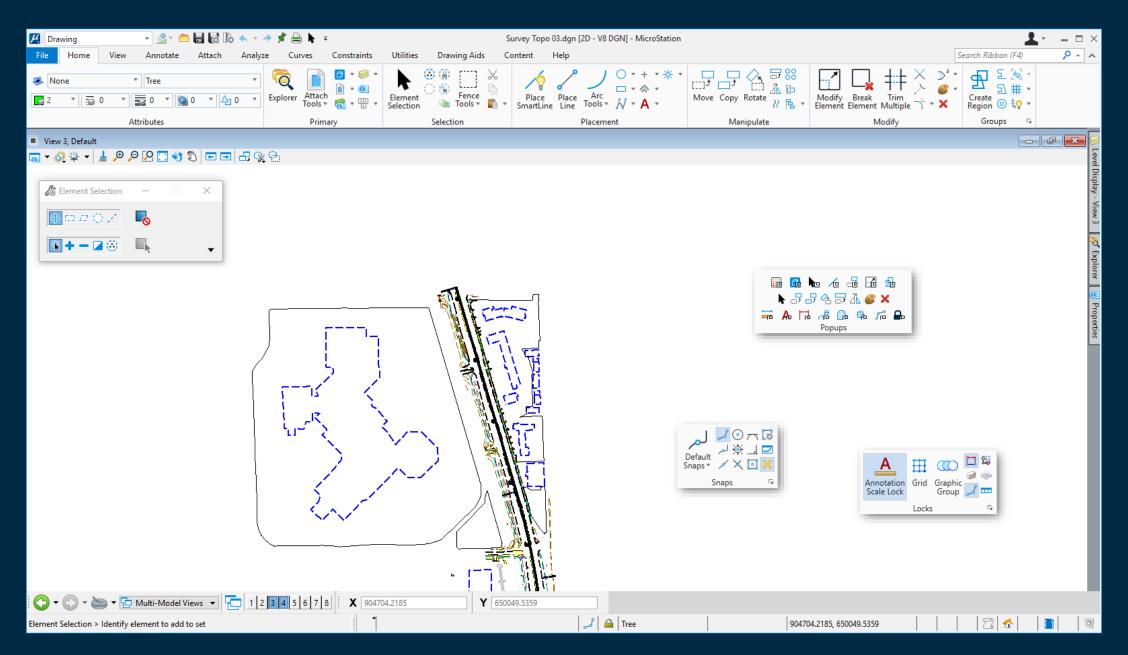


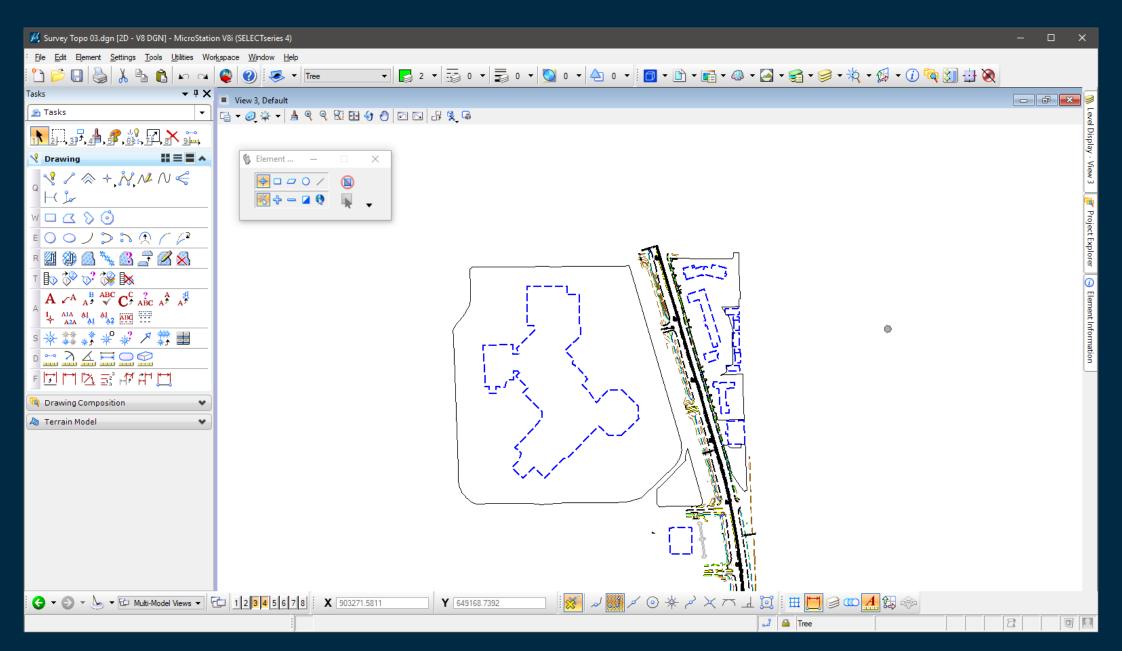


# MicroStation CONNECT Edition



### shorten the learning curve





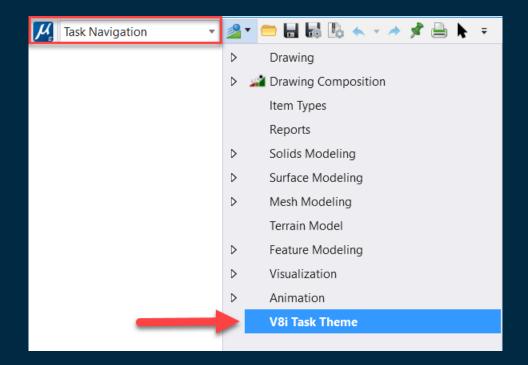


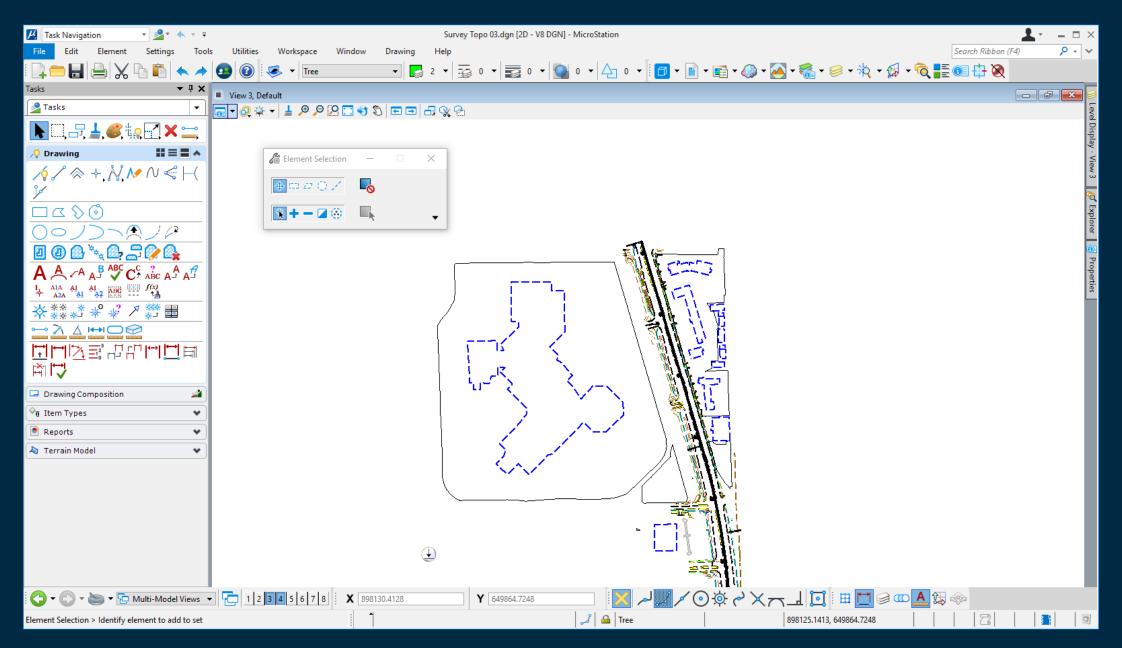
## shorten the learning curve



Now, you can use the V8i Task Theme in MicroStation CONNECT Edition.

Quickly access capabilities using a familiar interface while becoming proficient in using the CONNECT Edition ribbon interface.







# MicroStation CONNECT Edition



### managing digital components



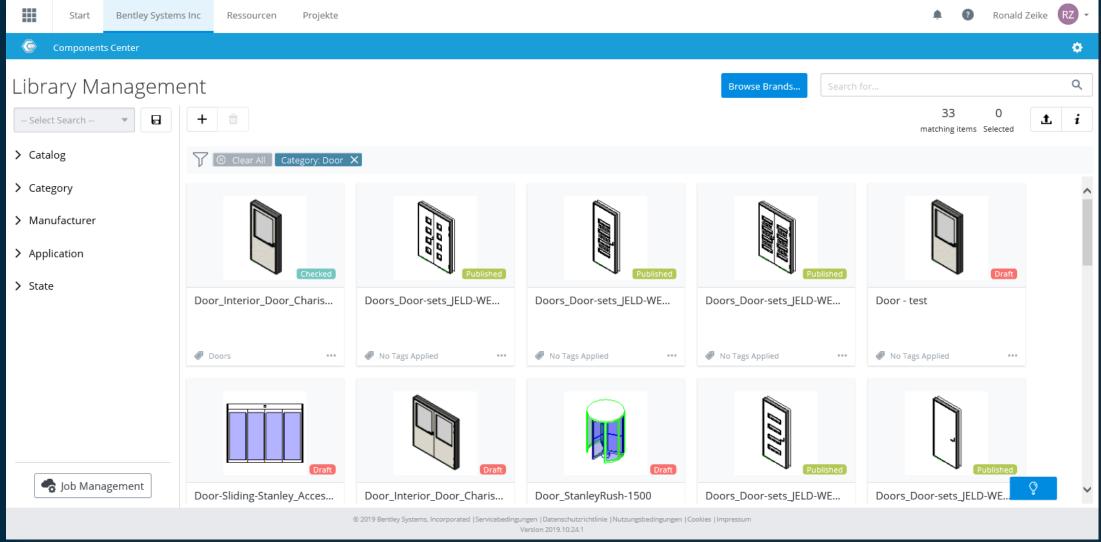
## managing digital components

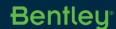


You can now use **Components Center**, a cloud-based digital component library and catalog management service, to manage, access, and share your organization's component libraries across project teams and applications directly from within MicroStation.



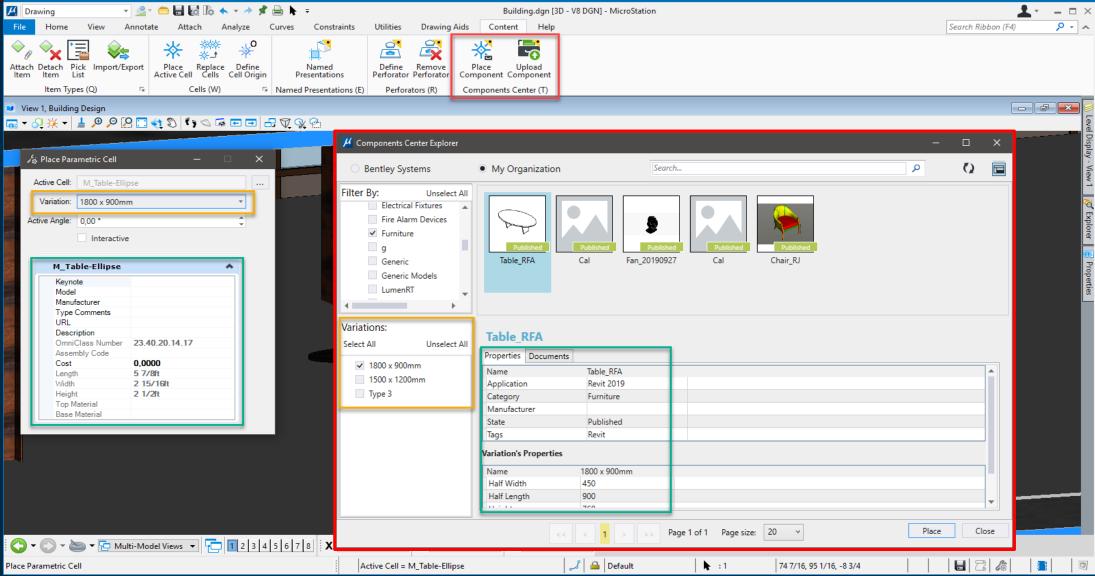
## managing digital components







## managing digital components

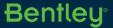




## MicroStation CONNECT Edition



improving the realism





## improving the realism

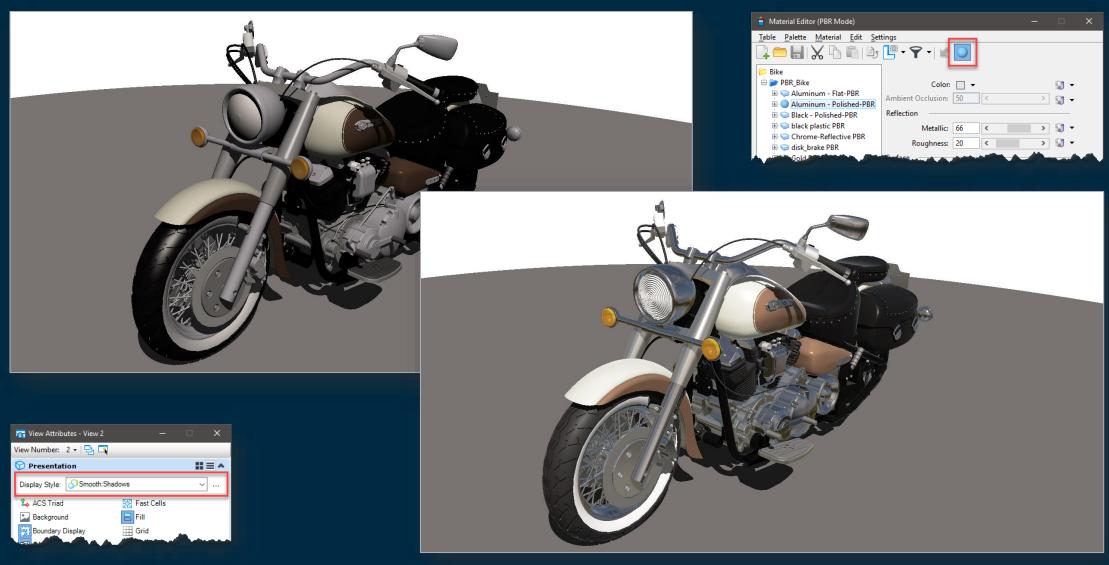


MicroStation now supports physically based rendering (PBR). Accurately represent a material's surface based on its interactions with light.



# improving the realism







# MicroStation CONNECT Edition



### some great features





### some great features



#### **Item Types**

Pick lists provide a way to let you use predefined values for item types properties. You can specify a pick list for an item in the property definitions of Item Types dialog, and then specify a pick list value in the Attach Item tool for the specified pick list.

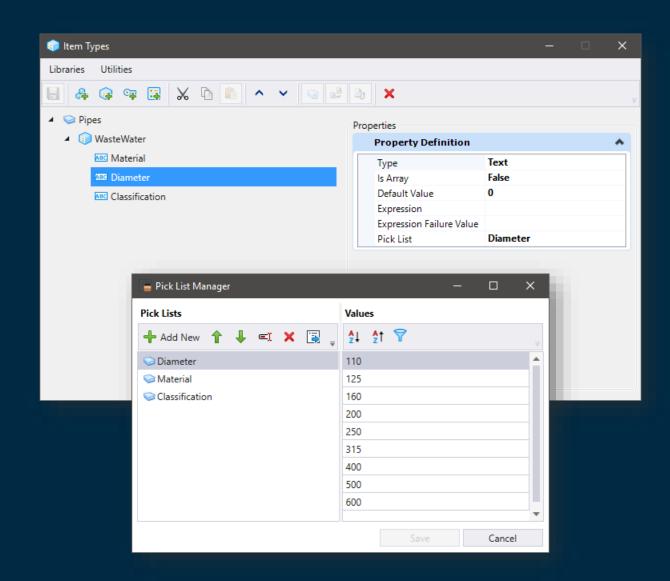
You can now define and attach an expression to an element's item type. The corresponding value of the expression will display in the element's Properties dialog. **Expressions** can represent business data which otherwise cannot be graphically represented for an element. Expressions have specific syntax definitions based on their type like arithmetic, concatenation, condition, comparison and so on.

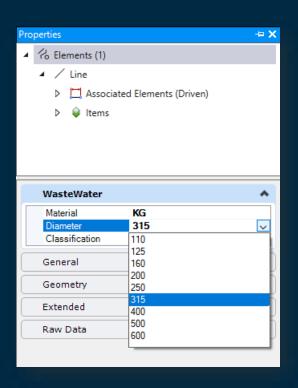
Using the ItemType Import/Export tool, you can export and import Item Type definitions and instances to and from Excel files. Export ItemType instances creates a report from your design elements. If you change data in Excel, you can import properties back to your design file elements.



## ItemTypes – Pick Lists



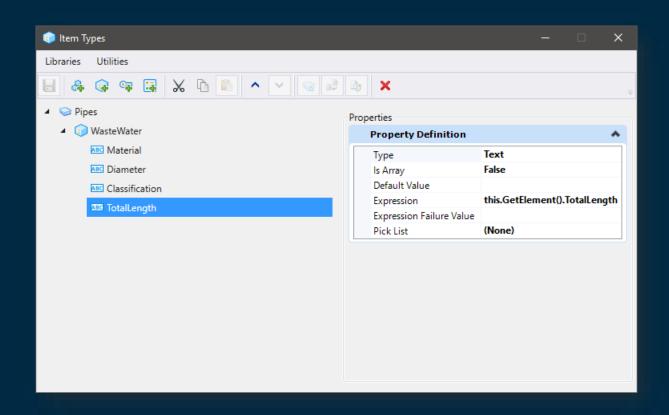






## ItemTypes – Expressions





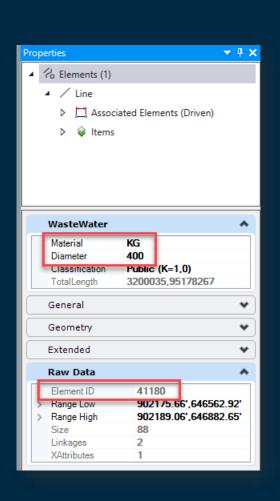
- General Symbols (Arithmetic)
- **String Concatenation**
- IIf Symbols (Condition)
- IIf Smbol (Comparison)
- **SystemString**
- System Math
- System Path
- **Element Properties**
- **Model Properties**
- File Properties
- GetItemSameLibrary()
- GetItemDifferentLibrary()
- GetItemExtrinsicSchema
- GetItemRelatedExtrinsicSchema

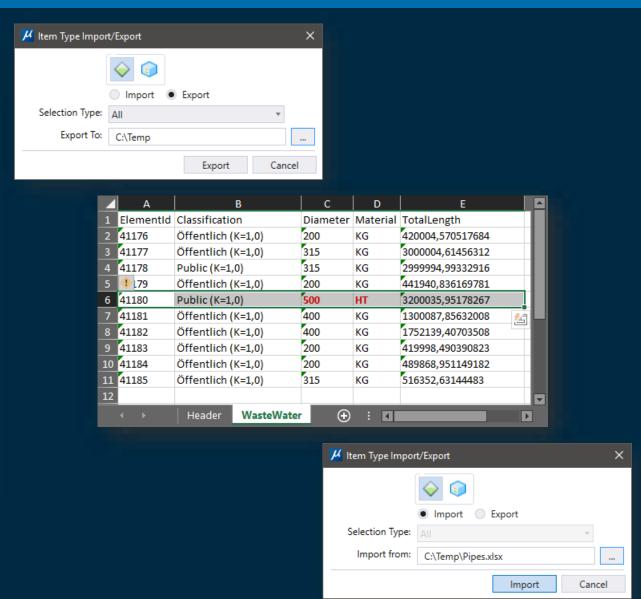


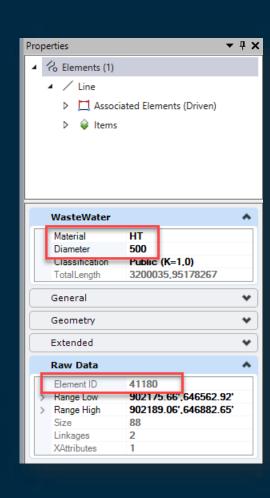


## ItemTypes – Import / Export











### some great features



#### **3D Modeling**

The Shrinkwrap Mesh tool is used to create a watertight mesh around elements. Delete all the little details and unnecessary inside elements and decrease the file size and complexity of your 3d models.

Perforators act as cutting elements on any target element and create a cut in the target element based on their profile.

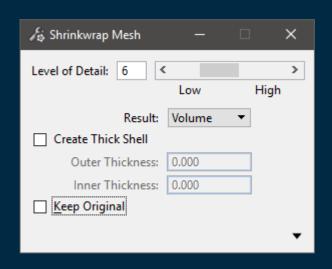
You can now extract faces and edges from a parametric solid using the **Associative Extraction** tool. The extracted faces and edges will maintain association with the parent solid.

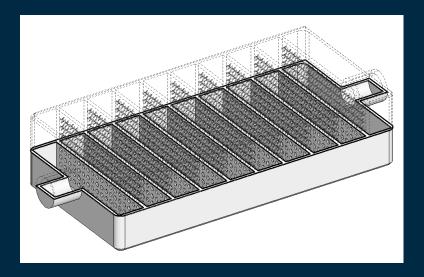


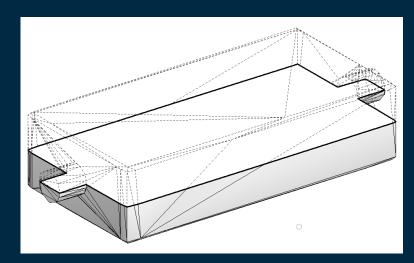
# 3D Modeling – Shrinkwrap Mesh











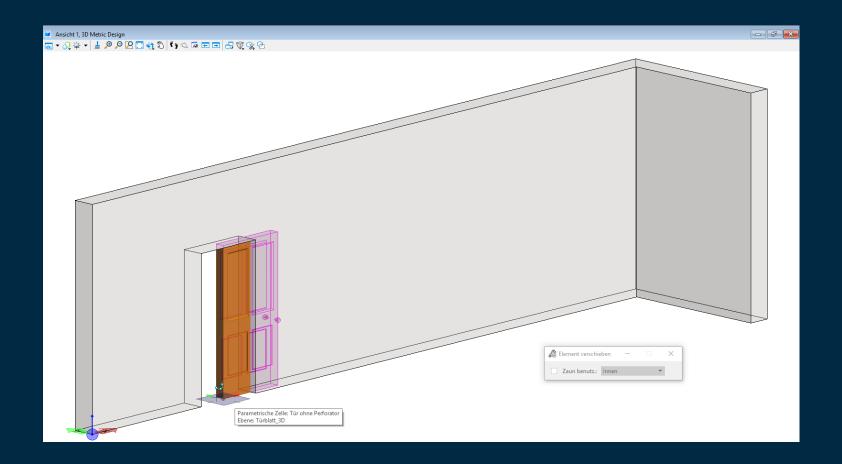


## 3D Modeling – Perforators



#### Previously in MicroStation:

- Draw a wall
- Imprint opening
- Create opening
- Construct door or place as cell
- Move door, opening will not follow



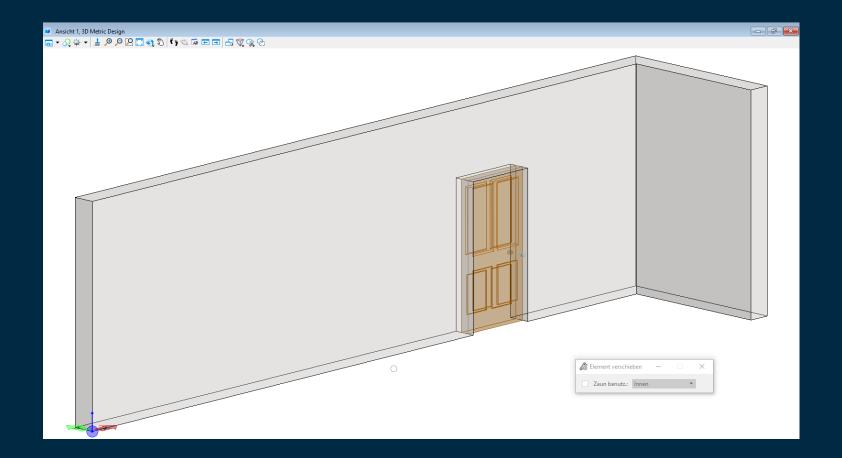


## 3D Modeling – Perforators



#### Today in MicroStation CE

- Draw a wall
- 2. Place parametric cell incl. perforator
- 3. Opening is associated to the door and will move automaticaly

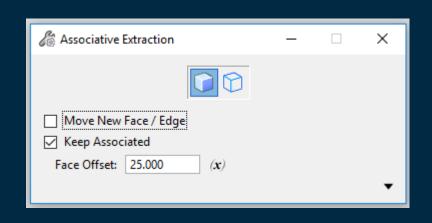


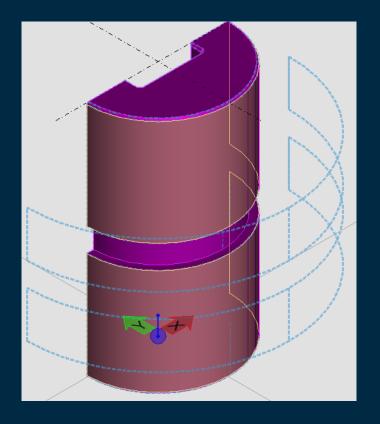


# 3D Modeling – Associative Extraction











### some great features



#### **Documentation Center**

You can use Named Presentations to represent different symbology for an element in different view orientations. For example, a door can be represented differently in top, front/rear elevation and isometric views.





### Named Presentations



