



 Solid Edge V19  
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## *Standard Parts*





# Have you ever asked...



- ▶ How can I have PartFinder just only the ones I use? My company only uses 15-20 different bolts and sizes?
- ▶ It takes too long to install Standard Parts
- ▶ Why do I have to re-install everything with every new version?
- ▶ Why is there 3 exact bolts in my assembly but of a different version?
- ▶ How do I combine the different versions of the same bolt for an accurate parts count in Draft?
- ▶ I've already my standard parts modeled, how can I add them so Fastener Systems can use them?
- ▶ Can PartFinder manage my "non-standard parts" such as motors, brackets, shafts?



# What's New in V19?



- ▶ Improved Installer: users can choose a subset of parts for a new installation and for future updates
- ▶ Bulk Populate: users can now add their own parts
  - ▶ Read the data from Family of Parts
  - ▶ Read the data from and Excel spreadsheet
  - ▶ Just enter them in a table-like format
- ▶ Better management of part versioning
- ▶ Delivery of UNF parts
- ▶ Teamcenter Support
- ▶ Support for 64-Bit Solid Edge



# Enhanced Install / Update Process



- ▶ The Administrator tool now has the capability to install just a subset of the Standard parts
- ▶ All “master” parts still get installed (generally a small footprint), but only the selected sizes are registered in the database for actual use
- ▶ Users can choose to add parts from
  - ▶ The delivered content (NEW)
  - ▶ A part file (existing functionality)
  - ▶ A folder of parts (existing functionality)
- ▶ During the Install process, users can see both what’s installed (if anything) and what the update offers.
- ▶ Users can pick and choose what parts and sizes to install
- ▶ Users can optionally generate one or all of the installed parts



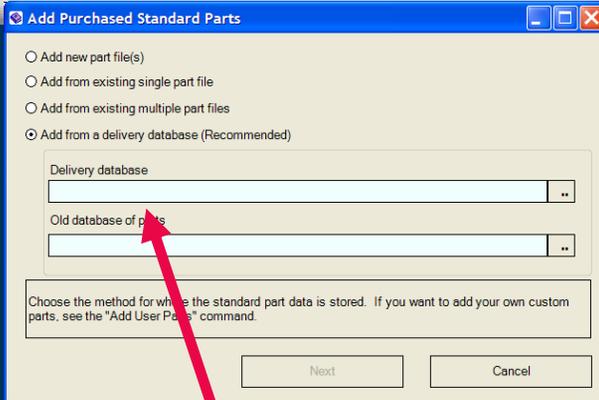
# Enhanced Install / Update Process



- ▶ How the new option for the install process works...
- ▶ During the installation of standard parts, a special “install” database is delivered to the standard parts folder—don’t worry it’s relatively small
- ▶ Using the Administrator tool to “add the parts” use the new option to install from the install database.
- ▶ During the process, the Administrator tool looks at the content from the “install” database, and the user databases and lists the contents of both
- ▶ The Administrator compares the two and lists what’s installed and what could be added
- ▶ The “install” database also shows what parts (installed or not installed) have changed and the severity of the change
  - ▶ ANSI ¼-20 x 2 has changed: the diameter is now correct, or...
  - ▶ ANSI ¼-20 x 3 has changed: the material has been added, or...
  - ▶ ANSI ¼-20 x 4 has not changed
- ▶ Upon Install, the Administrator builds a complete database of the selected parts, their characteristics, properties—the stuff Piping, Fastener systems and Part finder need.



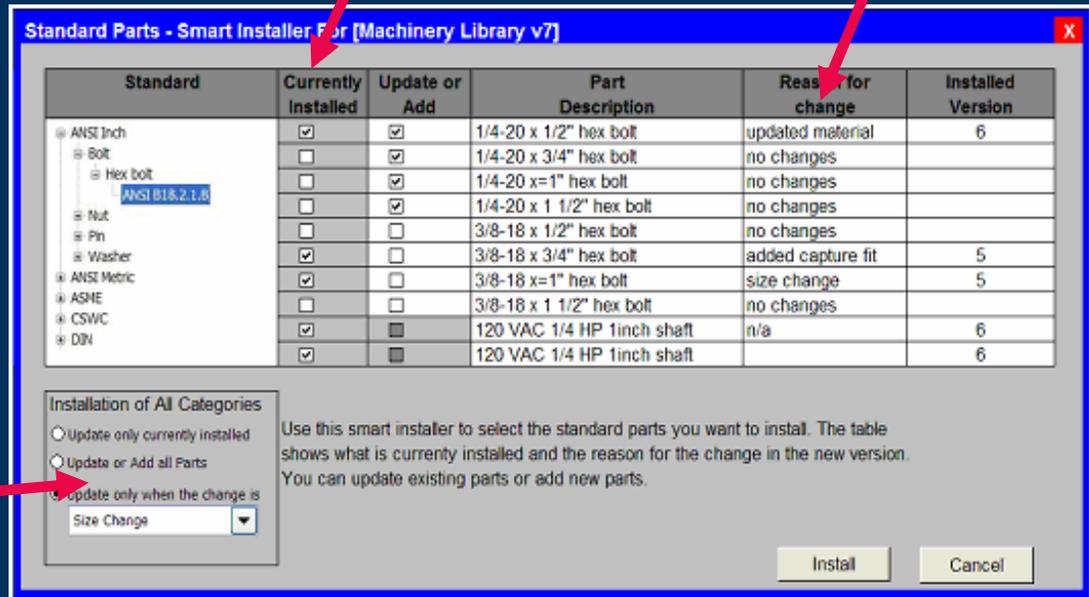
# Enhanced Install / Update Process



New option to add from the installation database

Quick indication of what is installed

Reason for change



Options to quickly add select content



# Enhanced Install / Update Process



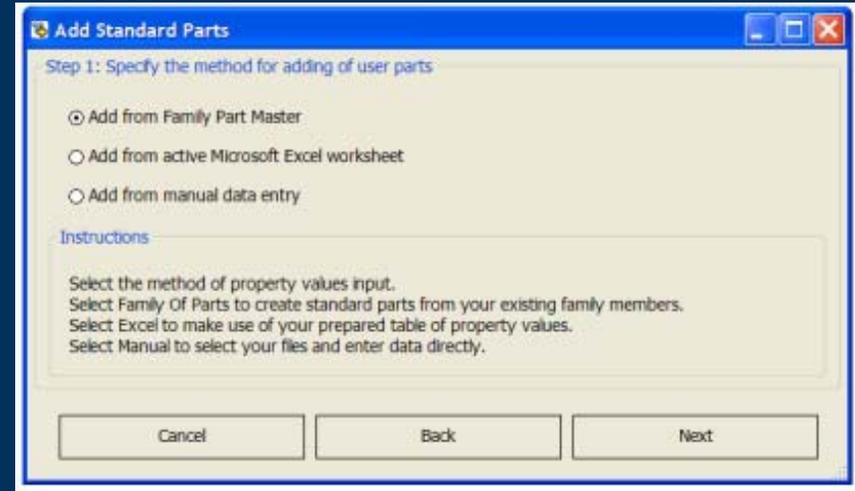
- ▶ Users can add more content later, just use the Administrator tool
- ▶ Users can optionally generate one or all of the parts after the install



# Bulk Populate Tool



- ▶ Users can now add their own parts to Standard Parts database
- ▶ All added parts are recognized for use with
  - ▶ Fastener Systems
  - ▶ Piping
  - ▶ PartFinder
- ▶ Add ANY part, nuts, bolts, brackets, motors, clips, etc.
- ▶ New Install/Update tools will recognize these parts and not delete or overwrite them
- ▶ This tool is for adding existing data, not for part creation
- ▶ New custom categories can be created for specific part storage

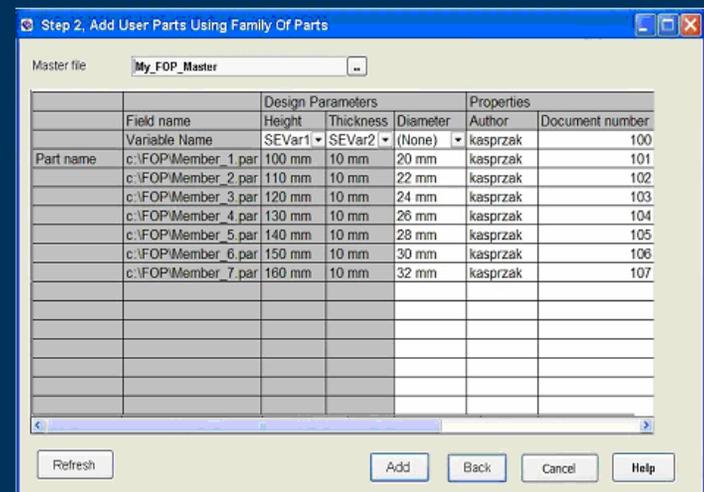




# Bulk Populate Tool



- ▶ Add parts from a Family of Part
  - ▶ Choose the master part
  - ▶ Category attributes are predefined in the table so simple Variable mapping is used to indicate where data is
  - ▶ Table of sizes, part locations is built from the members
  - ▶ Upon Install, all member files and the attributes are added to the database
  - ▶ Ideal for adding existing Solid Edge part models that was “bulk created” with FOP

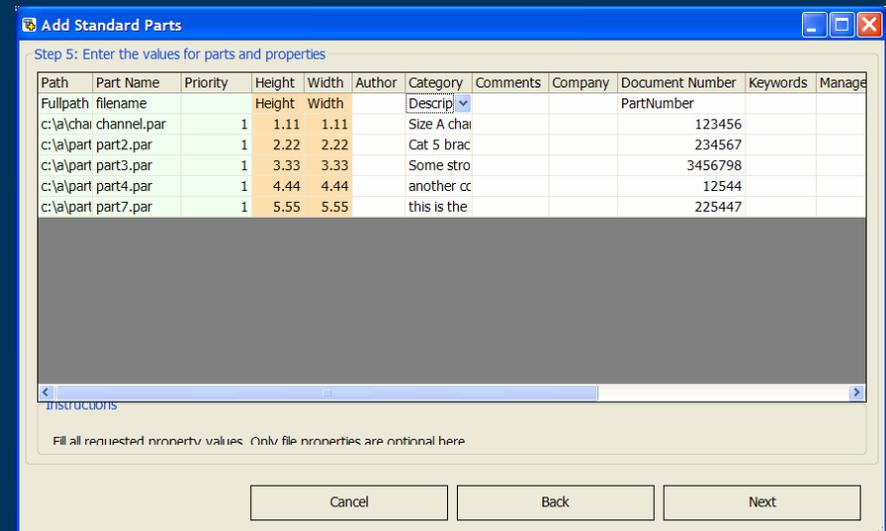




# Bulk Populate Tool



- ▶ Add parts from a table of parts and sizes stored in an XLS spreadsheet
  - ▶ Add files and sizes are read from Excel
  - ▶ Category attributes are predefined in the table so simple column mapping is used to indicate where data is
  - ▶ Upon Install, all member files and the attributes are added to the database
  - ▶ Great for adding existing data from other CAD systems

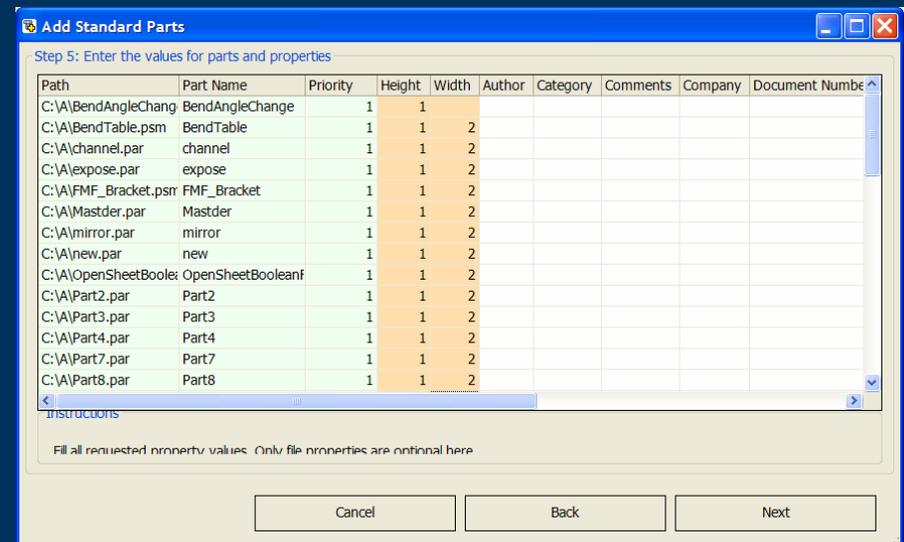




# Bulk Populate Tool



- ▶ Add parts from a table of user data
  - ▶ Add files and sizes are read from a table of user defined data
  - ▶ Category attributes are predefined in the table so users simply “fill in the blanks”
  - ▶ Upon Install, all member files and the attributes are added to the database
  - ▶ Great for adding existing data from neutral formats (IGES, STEP, X\_T, etc.)

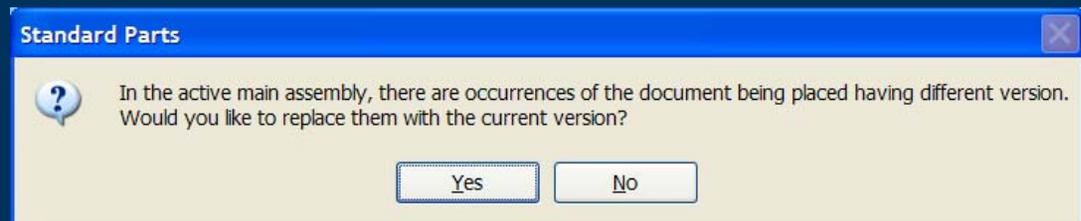




# Better Version Management



- ▶ Same part placed as different filenames in an assembly...
  - ▶ Wrong BOM, redundant occurrences
- ▶ Enhanced Install/update process
  - ▶ Eliminate adding new versions for no real reason
- ▶ Improved part place process within PartFinder
  - ▶ When adding a Standard Part to an assembly, PartFinder will search the current assembly for duplicates and replace the old with the new

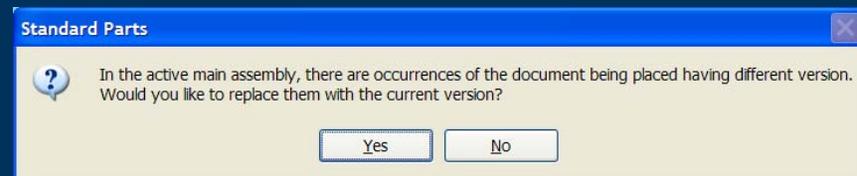
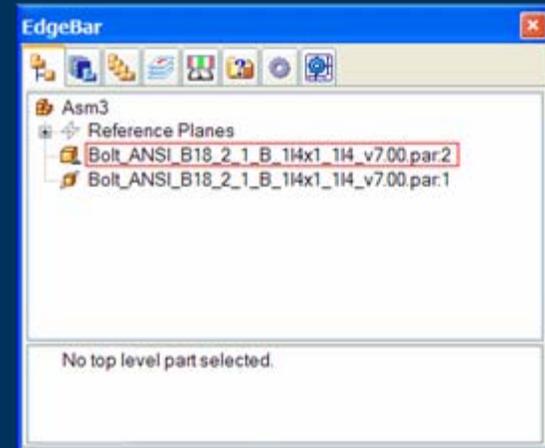
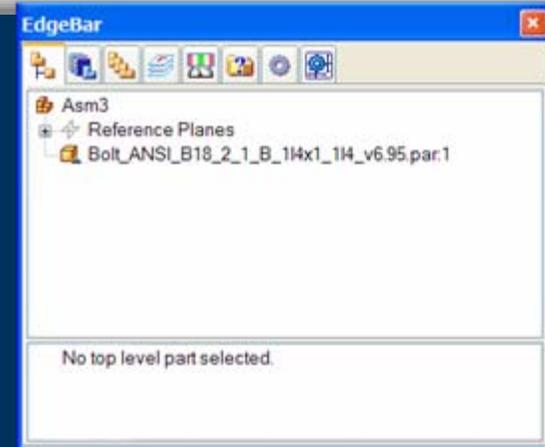




# Better Version Management



- ▶ How it works...
  - ▶ When adding a Standard Part to an assembly, PartFinder will search the current assembly for duplicates
  - ▶ If a duplicate part is found (but a different version), the user will be prompted to replace old versions with the new version
  - ▶ The search is in the current level assembly only. This avoids
    - ▶ Drawings of subassemblies mysteriously going out of date
    - ▶ File access issues when some subassemblies may have been released





# Delivery of UNF Parts



- ▶ Additional part are delivered that include Fine threads (UNF).
  - ▶ Nuts, bolts, screws
  - ▶ Delivered in the most common sizes
  - ▶ Use Administrator to add the new content (choose “Add from Delivery Database”)
  - ▶ The Changed status in the Part Add command in Administrator will indicate these as new parts.



# 64-Bit Support



- ▶ Users upgrading to both 64 bit hardware and 64-Bit Solid Edge, can install a dedicated 64-bit Standard Parts framework
- ▶ All existing functionality is supported



# Teamcenter Support



- ▶ Users can now use Standard Parts in a Teamcenter managed environment
- ▶ Teamcenter OR Insight / Unmanaged, combinations are not supported
- ▶ The “switch” is set during Standard Parts setup
- ▶ Generated parts that are added to an assembly will be managed by Teamcenter



# Have you ever asked...



- ▶ How can I have my standard parts list show just the ~19 ones I use?
  - ▶ The new install method “Add from delivery Database” will address this
- ▶ It takes too long to install Standard Parts
  - ▶ The new install method “Add from delivery Database” will help if you only need a subset (all parts will still take the same time)
- ▶ Why do I have to re-install everything with every new version?
  - ▶ See the new install method “Add from delivery Database”
- ▶ Why is there 3 exact bolts in my assembly but are a different version?
  - ▶ PartFinder will now take care of this during new part placement
- ▶ How do I combine the different versions of the same bolt for an accurate parts count in Draft?
  - ▶ PartFinder will now take care of this during new part placement
- ▶ I’ve already got my set of standard parts, how can I add them to Standard Parts?
  - ▶ The bulk adder will take care of this
- ▶ Can I use standard parts to manage my “non-standard parts”?
  - ▶ The bulk adder will take care of this