



Autodesk Vault 2025Data Standard – Updates | Migration

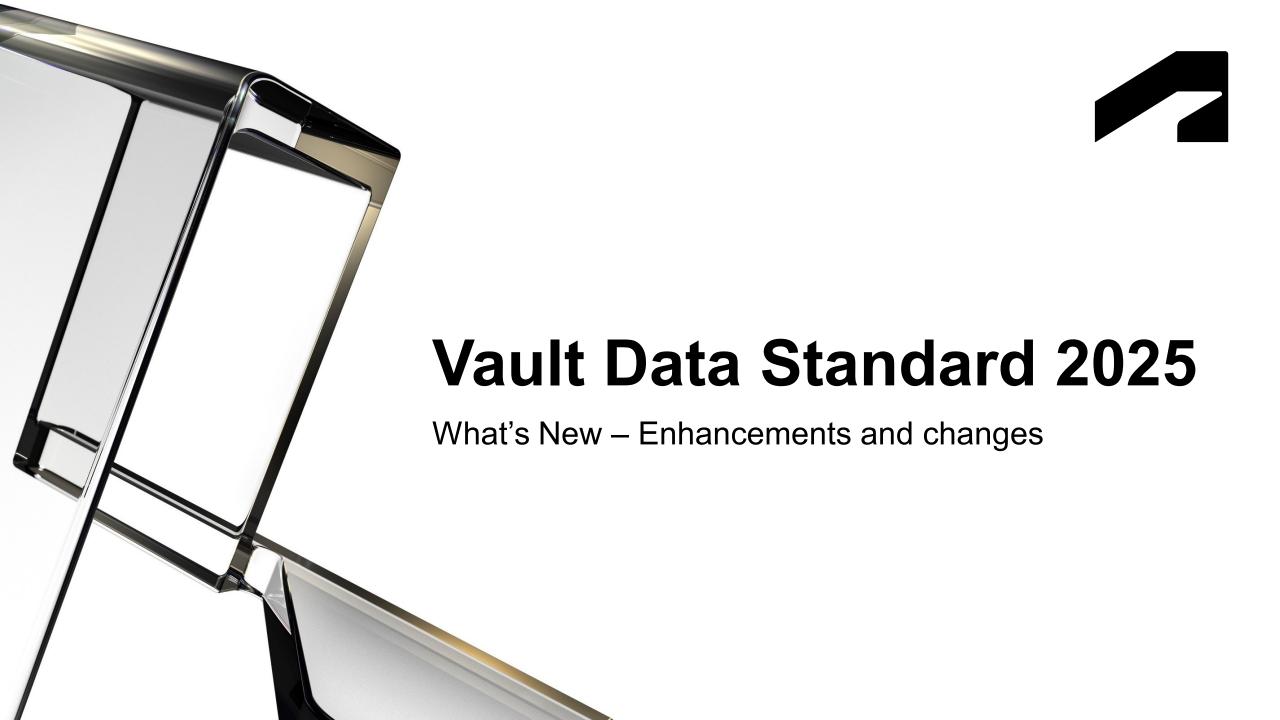
What's New | How to update customized configurations

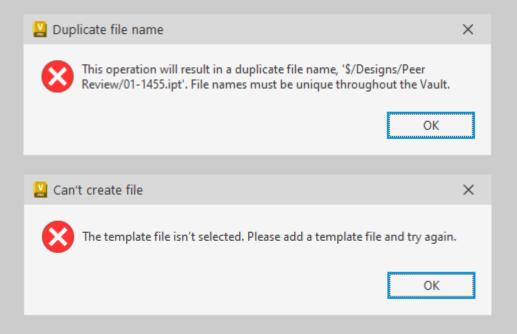
Markus Koechl
Solutions Engineer PDM|PLM | Community Profile

Agenda

Autodesk Vault 2025 Data Standard – Updates | Migration

- What's New 2025 Enhancements and changes
 - Known Issue "Default Numbering"
- Editing custom configurations
 - VDS-Configuration-Editor-Basic
 - VDS-Sample-Configurations-2025
- Migrating custom configurations 2024 -> 2025
 - Minimum Updates
 - Recommended Updates



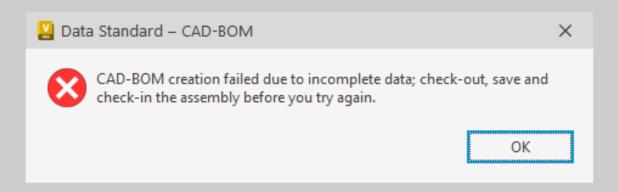


VDS General

Enhanced error messaging

- Restriction dialogs with error captions and clear messages replaced message boxes with error numbers for
 - Duplicate file names
 - Missing template selection (not possible with default configuration)

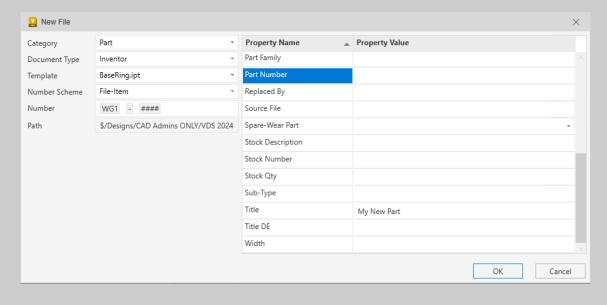
Thumbnail	Position	Part Number	Quantity	Component Type	Material	Title	Description
	45	001065	1	Assembly		Back Drive Transfer Gear	Fishing Rod Sample Design
	44	BS 4183 - M3 x 5	1	Part	Steel, Mild		Slotted cheese head machine screws - Metric ser
	43	ANSI B18.6.7M - M2x0.4 x 6	3	Part	Steel, Mild		Slotted Pan Head Machine Screw (Regular Threa
0	41	001069	2	Assembly		Bearing1	Fishing Rod Sample Design
	42	001038	2	Part	Steel	Main Bearing Cover	Fishing Rod Sample Design

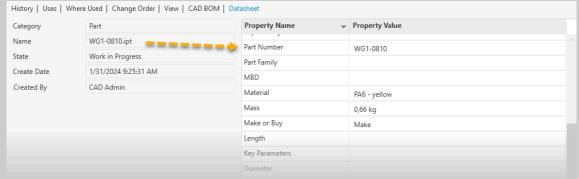


VDS Vault

CAD BOM – Error Handling

- Provide specific feedback on how to resolve issues in creating a CAD-BOM view
 - Imported or non-migrated legacy Inventor assemblies may prevent BOM views from being created
 - A user-friendly call to action replaced the PowerShell script error message

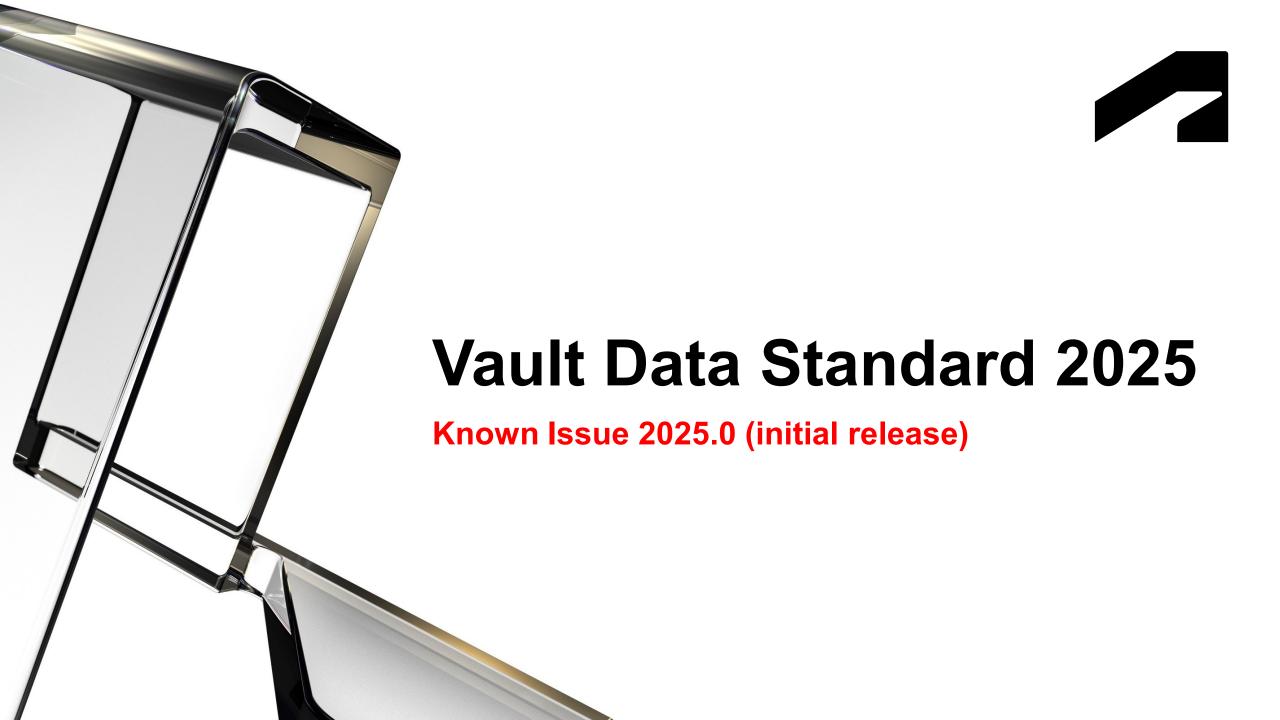


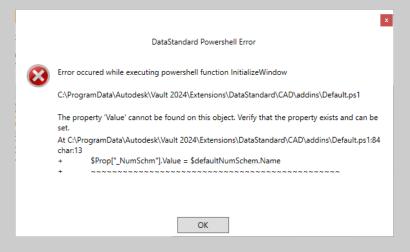


VDS Vault

Auto-Update Part Number

- Vault Explorer New Standard File command updates the Part Number field by the number retrieved on creation
- Creation of new files in Vault Explorer aligned the default behavior with VDS Inventor
- Avoids the need for custom configurations to synchronize new file numbers with Part Number property





Known Issue

Default Numbering Scheme

- VDS 2025 introduced a preset for the default numbering scheme
- Unfortunately, it breaks other established workflows and customization options
 - Inventor: Frame Generator, Design Accelerator, Tube and Pipe, Cable and Harness dialogs display an error message during initialization but work properly
 - Vault: New Standard Folder... command uses the default numbering scheme instead of a free-text name
 - The optional link of Numbering Scheme Name = Category Name to auto-select from multiple numbering schemes is no longer available

Default Numbering

Resolve the issue...

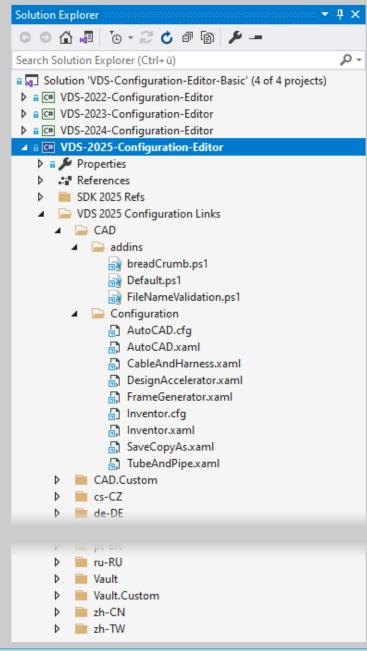
- By deletion of the highlighted snippet from 2025 default configuration files for CAD and Vault
 - .\CAD.Custom\addins\Default.ps1
 - .Vault.Custom\addinVault\Default.ps1

```
function InitializeNumSchm()
  #Adopted from a DocumentService call, which always pulls FILE class numbering schemes
  $global:numSchems = @($vault.NumberingService.GetNumberingSchemes('FILE', 'Activated'))
  if ($Prop["_CreateMode"].Value)
     if (-not $Prop["_SaveCopyAsMode"].Value)
        $Prop["_Category"].add_PropertyChanged({
           if ($_.PropertyName -eq "Value")
             $numSchm = $numSchems | where {$_.Name -eq $Prop["_Category"].Value}
             if($numSchm)
                $Prop["_NumSchm"].Value = $numSchm.Name
       $Prop["_NumSchm"].Value = "None"
  $numSchemsList=GetNumSchms
  if($numSchemsList)
     if($numSchemsList -is [Array])
        $defaultNumSchem=$numSchemsList[0]
        $defaultNumSchem=$numSchemsList
     if($defaultNumSchem.IsDflt)
        $Prop[" NumSchm"].Value = $defaultNumSchem.Name
```



Configuration Editor

Editor Basic | Editor Custom Configuration Samples

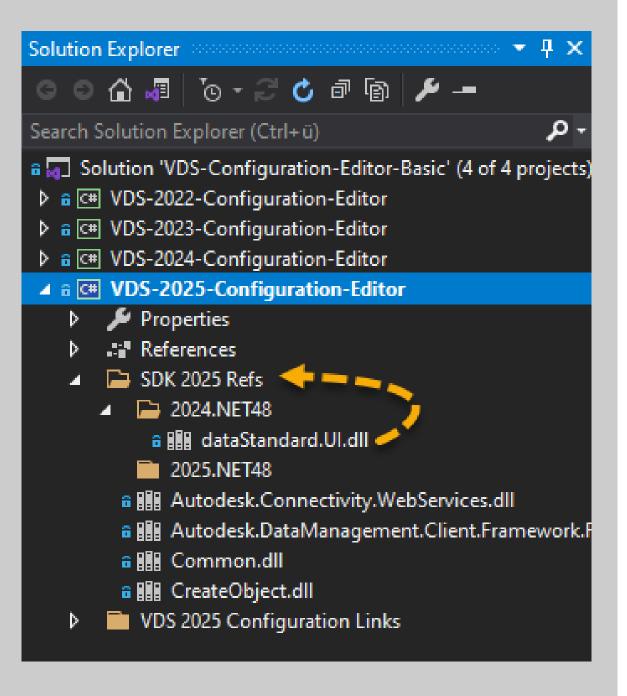


https://github.com/koechlm/VDS-Configuration-Editor-Basic

Editing Custom Configurations

VDS-Configuration-Editor-Basic

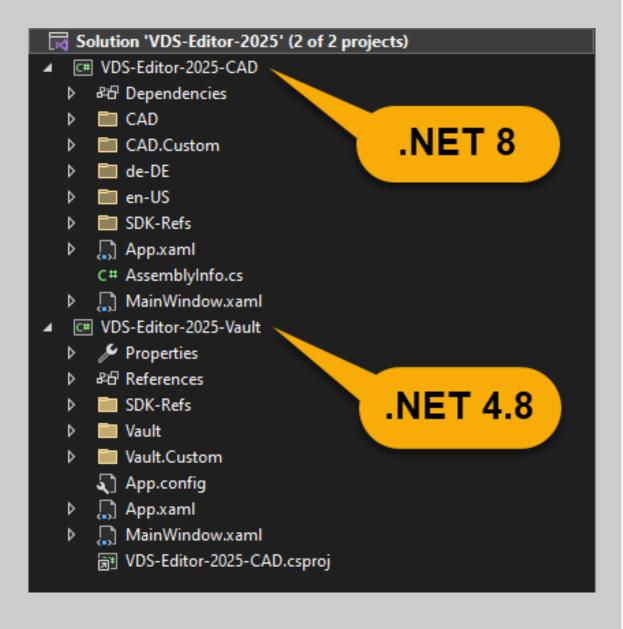
- Visual Studio 2019 Solution
 - Edit VDS 2022, 2023, 2024, 2025
 Configurations
 - Link configuration files (default)
 - Embed configuration files, e.g., copies for *.\Custom



Known Issue

Editing XAML definitions

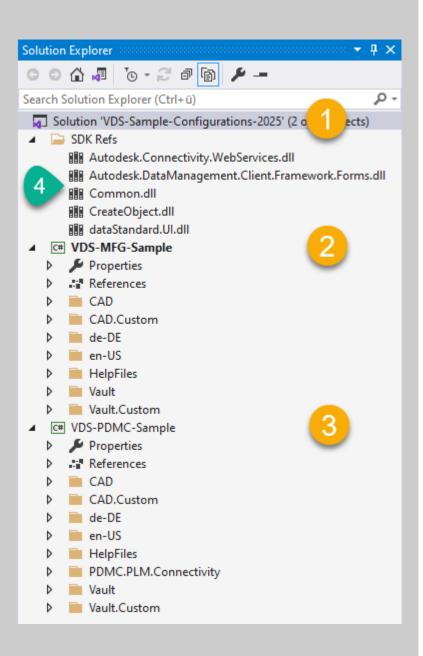
- VDS Addins for Inventor and AutoCAD Addins for 2025 releases migrated to .NET Core 8 (mandatory)
- VDS for Vault continues consuming .NET 4.8 Framework
- => As a result, editing VDS XAML files for CAD and Vault is no longer possible in a single Visual Studio project; a project can target either .NET Core or .NET Framework
- ⇒ Time-limited Workaround: Continue to reference the 2024 version VDS CAD library dataStandard.UI.dll
 - ⇒ The library did not add new objects in 2025, but this may change with future updates
 - ⇒ See next slide for long-term solution



Data Standard 2025

Visual Studio Project Configuration

- Split the Editor solution project
 - Creating a .NET Core WPF Application with references for CAD
 - dataStandard.UI.dll 2025
 - Log4net.dll 2025
 - 2025 SDK....x64\Core\ *.dlls
 - Creating a .NET Framework WPF Application with references for Vault
 - common.dll, CreateObject.dll, log4net.dll versions 2025
 - 2025 SDK....x64*.dlls
 - Copy all VDS configuration folders/files into the .NET 8 project
 - Keep a single consistent structure to copy/paste to the Vault client
 - .NET 8 projects don't longer allow to link files.
 - .NET 48 allows to link folders and files
 - Link the Vault and Vault.Custom Folders/Files



Custom Configuration Samples 2025

VDS-Sample-Configuration-2025 (1)

- Visual Studio 2019 Solution
 - Review/Compare VDS-MFG-Sample (2)
 - Custom Configuration for any Vault based on Manufacturing CFG
 - Review/Compare VDS-PDMC-Sample (3)
 - Custom Configuration compatible with PDMC-Sample Vault only
 - Embedded SDK reference sources on solution level (4)
 - ⇒ Open and edit configurations without VDS release installed
 - ⇒ Open and compare legacy configurations

https://github.com/koechlm/VDS-Sample-Configuration-2025



Migration

Custom configurations

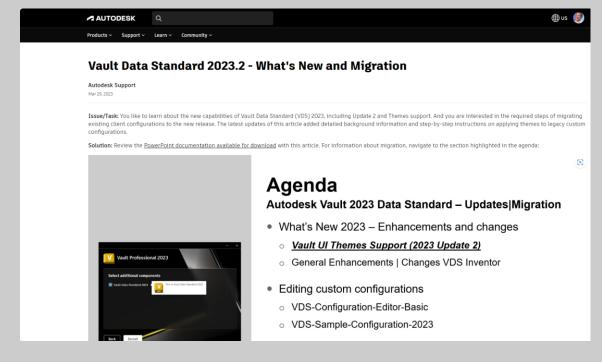
- How to update custom configurations
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Minimum Updates

Note

Migration paths

- This slide deck covers migration from VDS 2024 RTM to VDS 2025
- Available documentation for other release level migrations
 - Migration from 2022/2023 RTM to 2023.2 or 2024
 - AKN Download

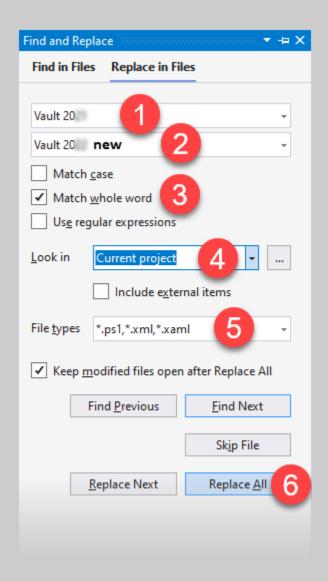


Vault Data Standard 2023.2 - What's New and Migration (autodesk.com)

Align Application Paths

Minimum update

- Align Version
 - Find / Replace \Vault 2024\ by \Vault 2025\
 - All files of solution

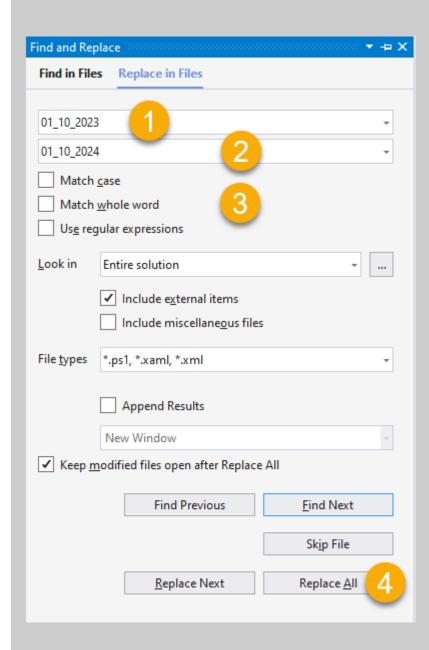


Shortcut User Profile Location

Minimum update for *VDS-Manufacturing-Sample**

- [only required if configuration implemented Shortcuts]
 - Replace path segment 01_10_2023 by 01_10_2024

 Note – these folders don't represent release numbers: Vault 2024 added the folder Services_Security_01_10_2024

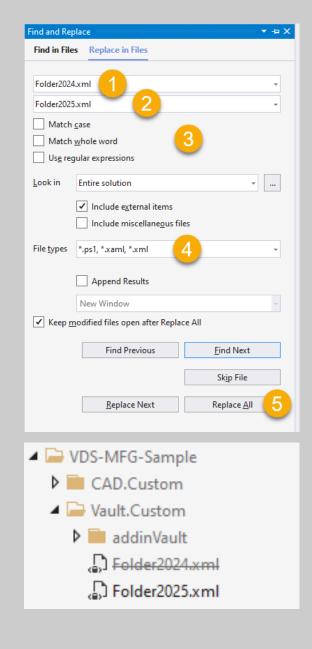


Last Used Folder

Minimum update for *VDS-Manufacturing-Sample**

- [only required if configuration implemented Shortcuts]
 - Replace substring Folder2024.xml by Folder2025.xml

 Rename the file .\Vault.Custom\Folder2024.xml to Folder2025.xml



Recommended Updates

CAD BOM

Error handling

- Extend your customized code by adding the highlighted code from the 2025 default configuration to your
 - .\Vault.Custom\addinVault\Default.ps1



```
#fired when the file selection changes
function OnTabContextChanged
  $xamlFile = [System.IO.Path]::GetFileName($VaultContext.UserControl.XamlFile)
  if ($VaultContext.SelectedObject.TypeId.SelectionContext -eq "FileMaster" -and $xamlFile -eq "CAD BOM.xaml")
     $fileMasterId = $vaultContext.SelectedObject.Id
     $file = $vault.DocumentService.GetLatestFileByMasterId($fileMasterId)
      #PDM-41111 enhance error handling in data standard CAD-BOM, A user can resolve the issue by reading the error message
        $bom = @(GetFileBOM($file.id))
        $dsWindow.FindName("bomList").ItemsSource = $bom
     catch {
         [Autodesk,DataManagement,Client,Framework,Forms,Library]::ShowError("CAD-BOM creation failed due to incomplete data; check
  if ($VaultContext.SelectedObject.TypeId.SelectionContext -eq "ItemMaster" -and $xamlFile -eq "Associated Files.xaml")
     $items = $vault.ItemService.GetItemsByIds(@($vaultContext.SelectedObject.Id))
     $item = $items[0]
     $itemids = @($item.Id)
     $assocFiles = @(GetAssociatedFiles $itemids $([System.IO.Path]::GetDirectoryName($VaultContext.UserControl.XamlFile)))
     $dsWindow.FindName("AssoicatedFiles").ItemsSource = $assocFiles
```

Vault

Update Part Number for New File...

 Extend your customized code by adding the highlighted code from the 2025 default configuration to your .\Vault.Custom\addinVault\Default.ps1



VDS Vault

- uto-Update Part Numb
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- Creation of new files in Vault Explorer aligned the default behavior with VDS Inventor
- Avoids the need for custom configurations to synchronize new file numbers with Part Number property

```
#Constructs the filename(numschems based or handtyped)and returns it.

function GetNewFileName

{
    $dsDiag.Trace(">> GetNewFileName")
    if($dsWindow.FindName("DSNumSchmsCtrl").NumSchmFieldsEmpty)
    {
        $dsDiag.Trace("read text from TextBox FILENAME")
        $fileName = $dsWindow.FindName("FILENAME").Text
        $dsDiag.Trace("fileName = $fileName")
    }
    else{
        $dsDiag.Trace("-> GenerateNumber")
        $fileName = $Prop["_GeneratedNumber"].Value
        $dsDiag.Trace("fileName = $fileName")
    }

if($Prop["_XLTN_PARTNUMBER"] - and ([string]::IsNullOrEmpty($Prop["_XLTN_PARTNUMBER"].Value))))
    {
        $Prop["_XLTN_PARTNUMBER"].Value = $fileName
    }
    $newfileName = $fileName + $Prop["_FileExt"].Value
    $dsDiag.Trace("<< GetNewFileName $newfileName")
    return $newfileName
}
```

