

Reserve Numbers



Data Standard Configuration Sample | Merge Instructions

Reserve Numbers

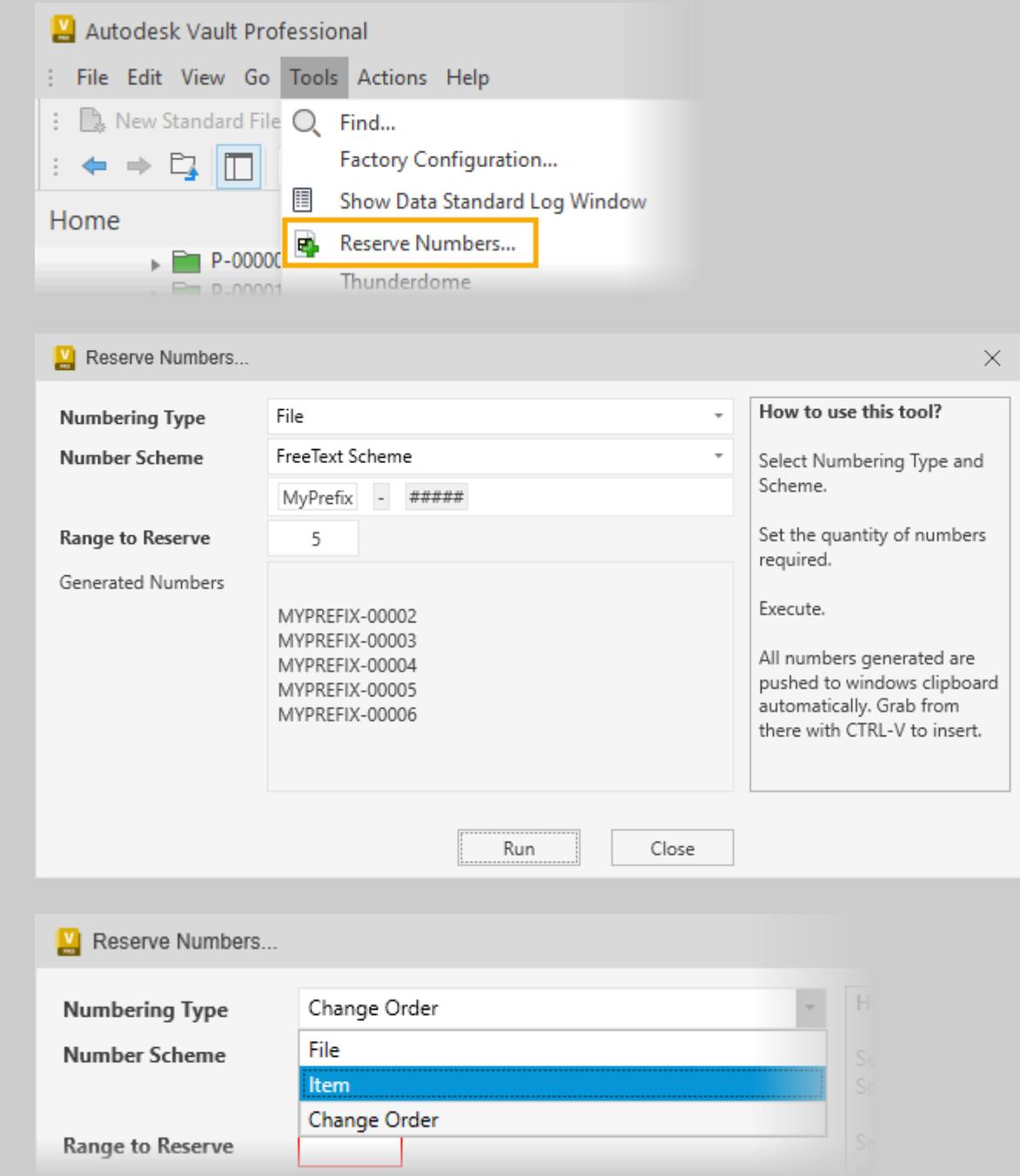
Pulling File, Item or Change Numbers

- Scope

- Retrieve multiple numbers to be consumed in variant tables like iPart, or Modelstates

- Outcome Options | Benefits

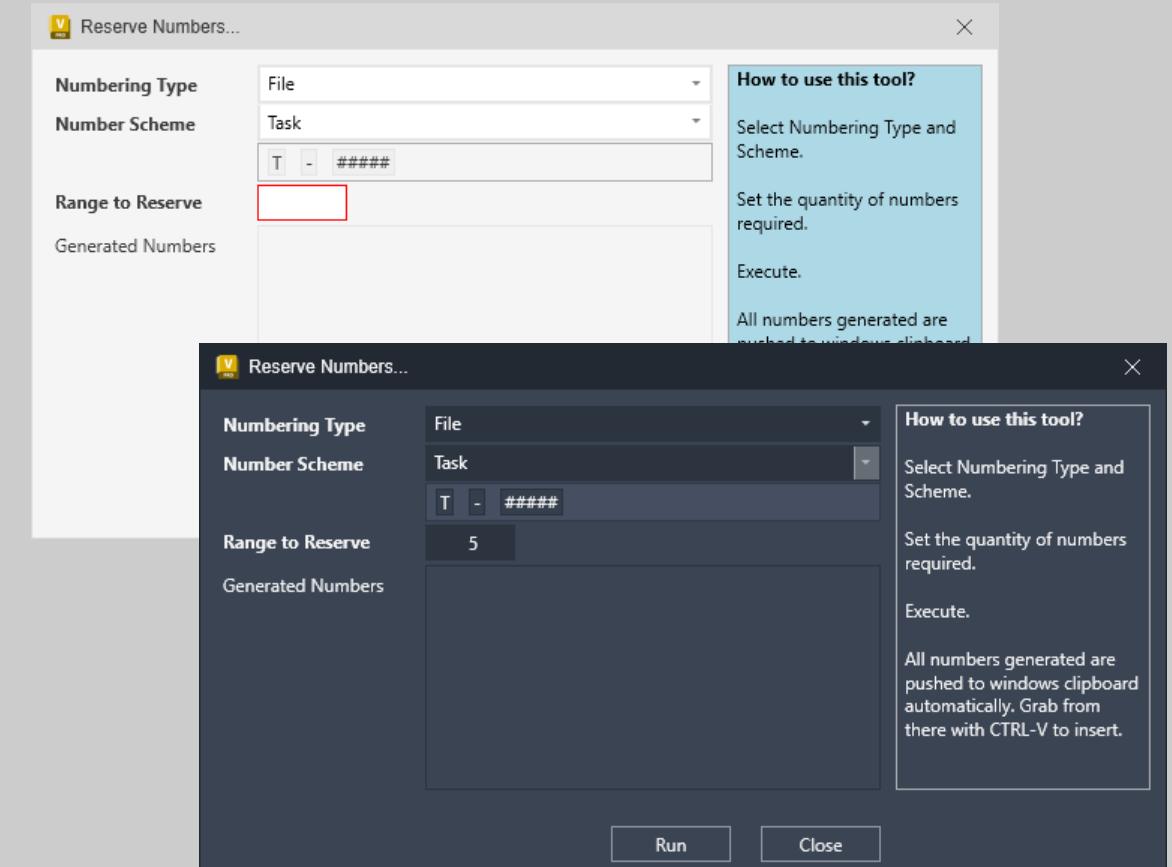
- Leverages Numbering Scheme per Entity types
 - Files (also used for Folders, Custom Objects)
 - Items
 - Change Orders
- Reserving Item Numbers creates empty items
- Created numbers are posted to Windows clipboard

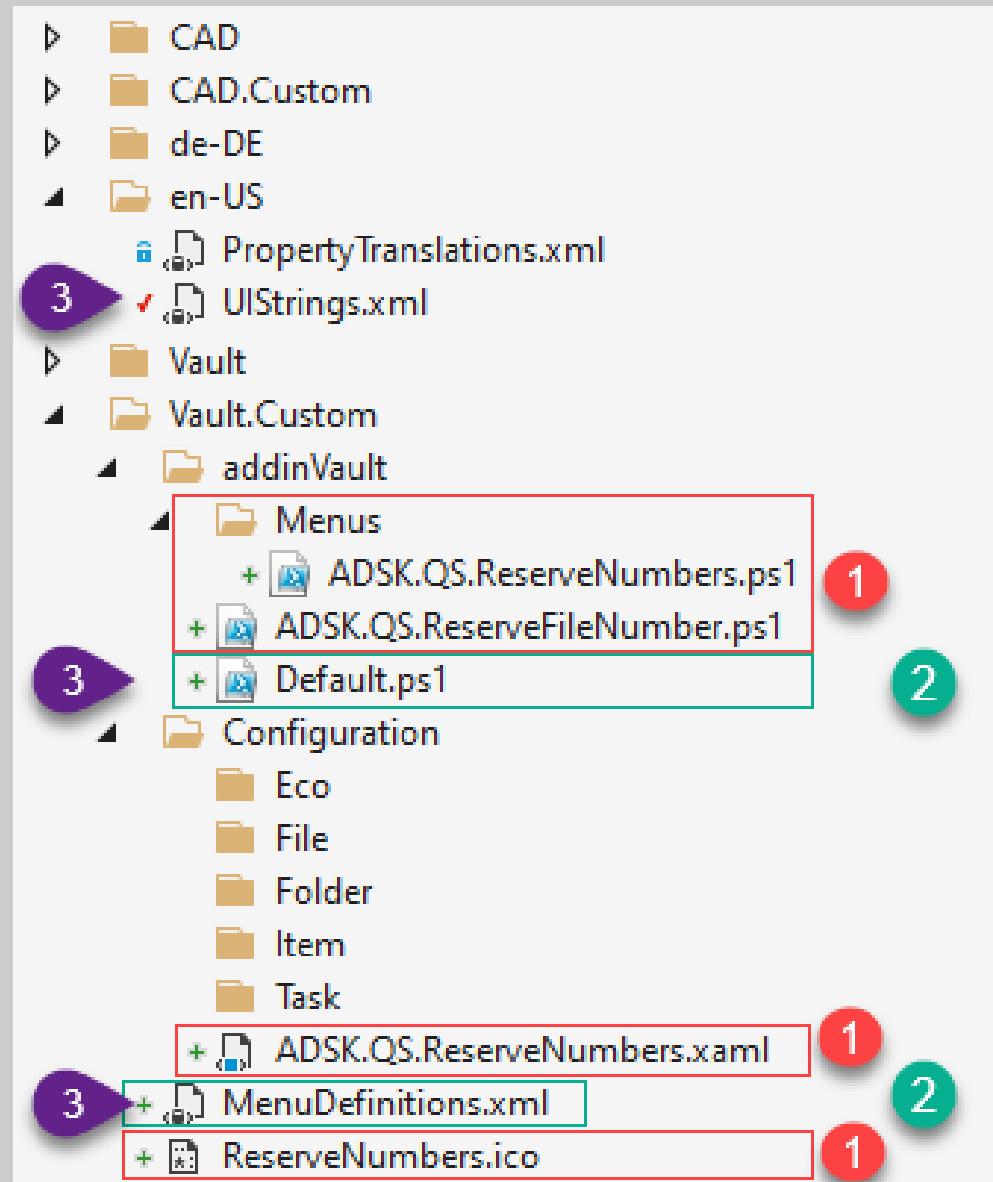


Reserve Numbers

VDS implementation

- Reserve Numbers is an integrated feature of the VDS-MFG-Sample configuration
- Follow the implementation steps to copy and paste required sources into your individual configuration





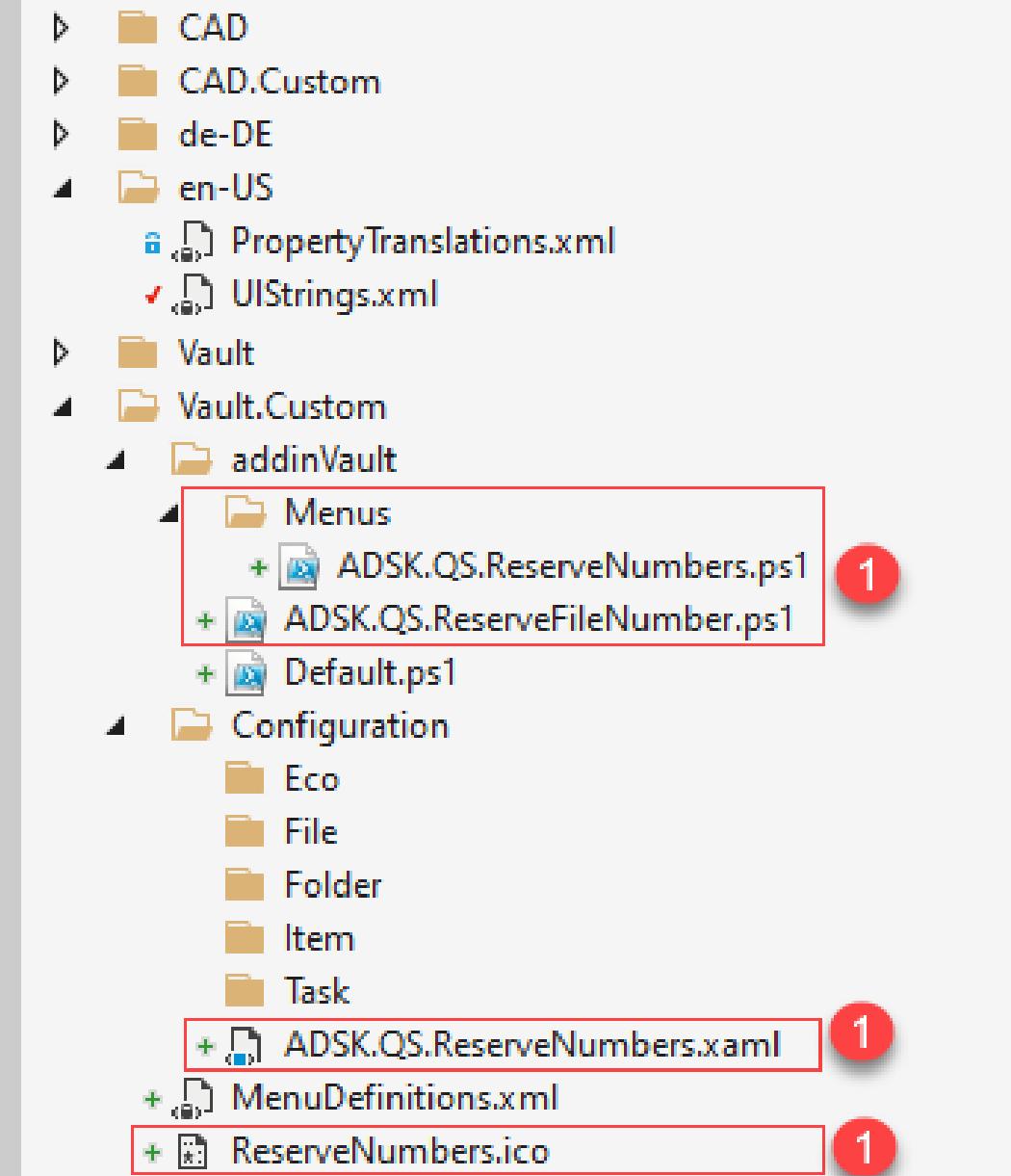
Integration

Overview

- Reserve Numbers extension is part of the Autodesk Technical Sales sample configuration VDS-MFG-Sample available on GitHub
 - Navigate to the matching Vault Release version <https://github.com/koechlm/VDS-Sample-Configurations-20xx>
- To integrate the command extension,
 - copy the published files from GitHub (1)
 - Copy the default files from your Data Standard Installation (2)
 - Edit the files as instructed (3)
 - Merge UI / localization strings
 - en-US, de-DE templates available
 - Add the command to Menu Definition
 - Extend the default script file

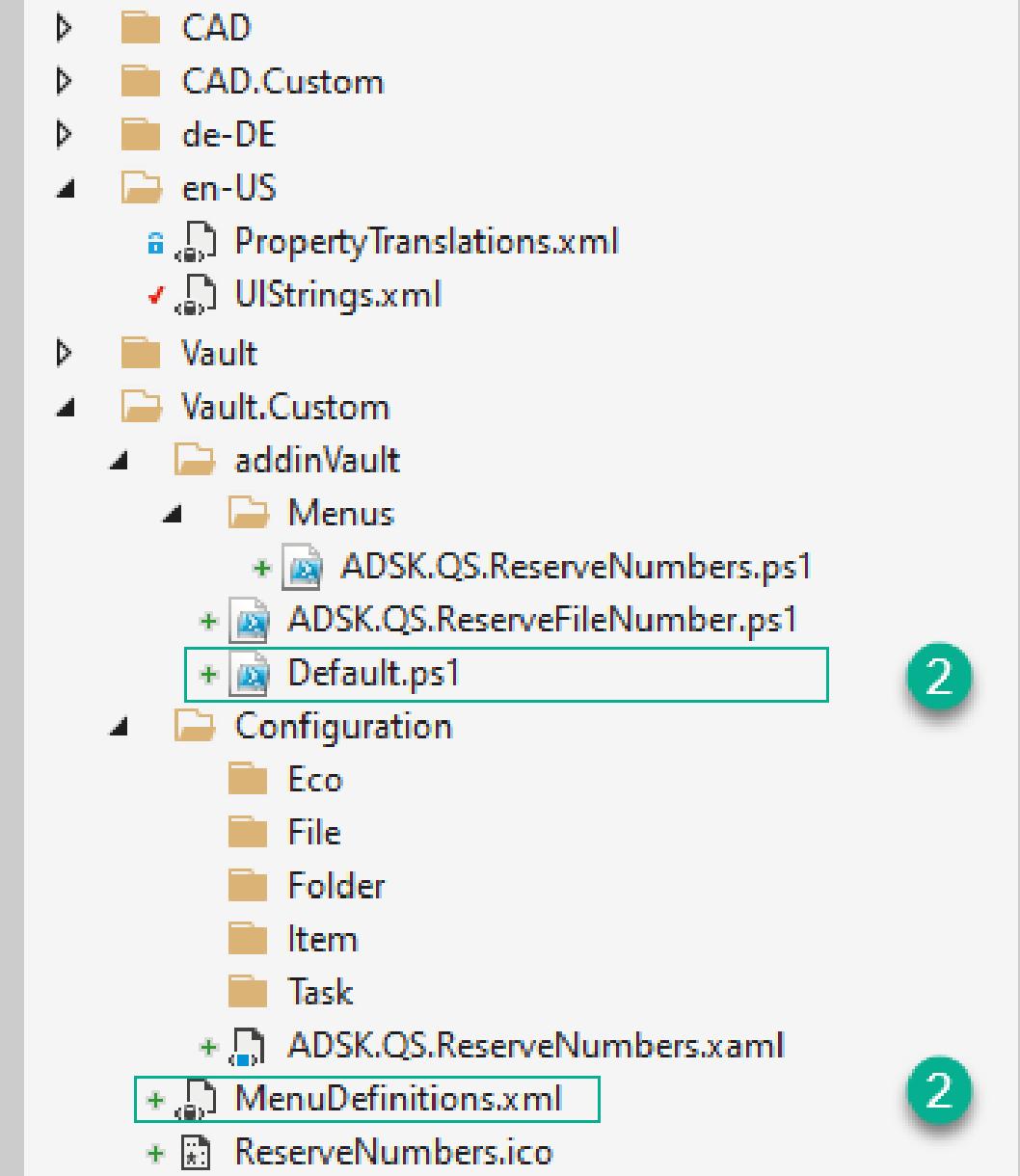
User Interface | Dialog

- Copy the command icon file to the customization folder .\Vault.Custom\
- Copy Dialog File ADSK.QS.ReserveNumbers.xaml to your custom configuration folder .\Vault.Custom\Configuration
- Copy the command and dialog script files to the custom addin folder .\Vault.Custom\addin\ and Menu folder .\Vault.Custom\addin\Menu



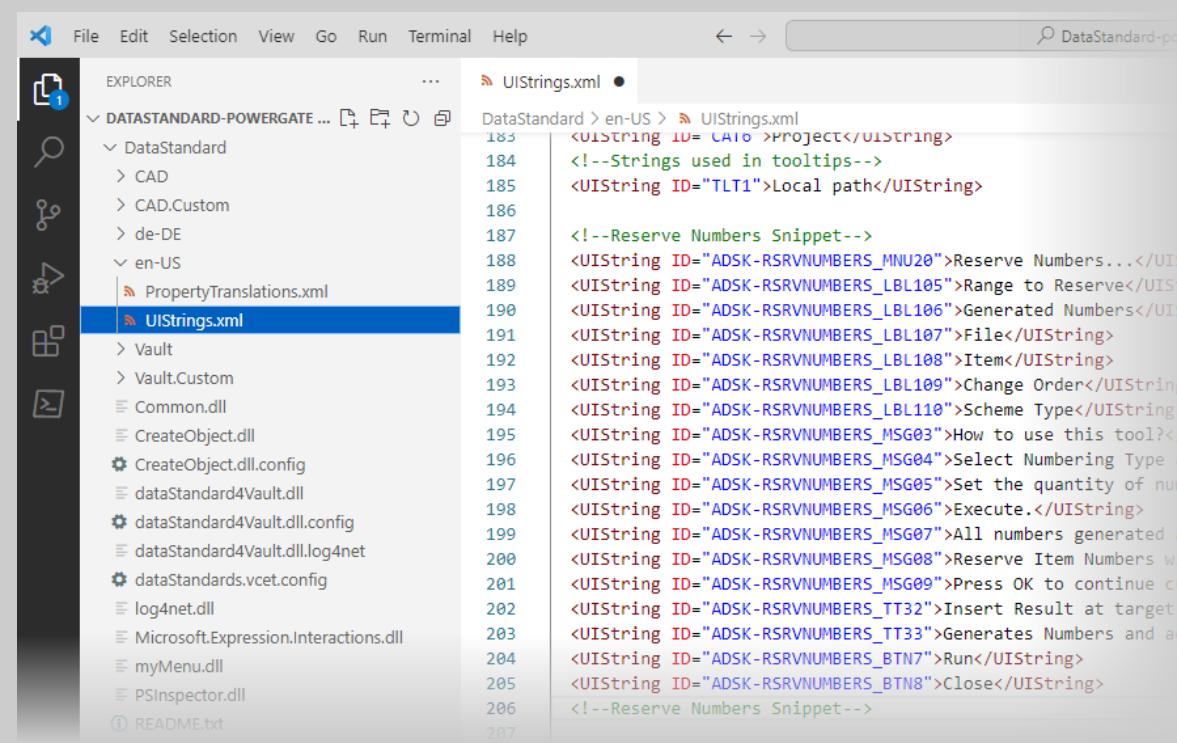
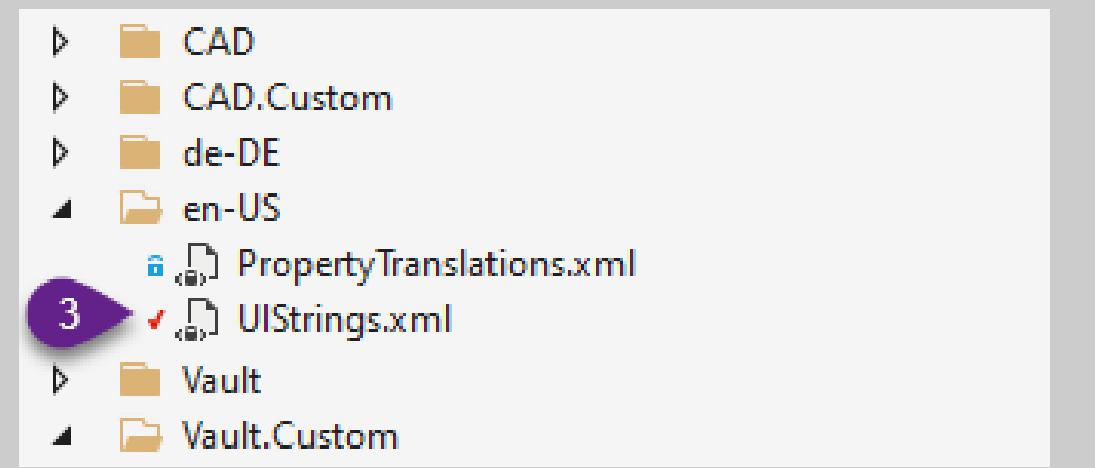
User Interface | Script

- Copy the default Script File Default.ps1 from .\Vault\addin\ to your custom addin folder .\Vault.Custom\addin\
- Copy the default Menu definition file Menudefinition.xml from .\Vault\ to your customization folder .\Vault.Custom\



Merge UIStrings.xml

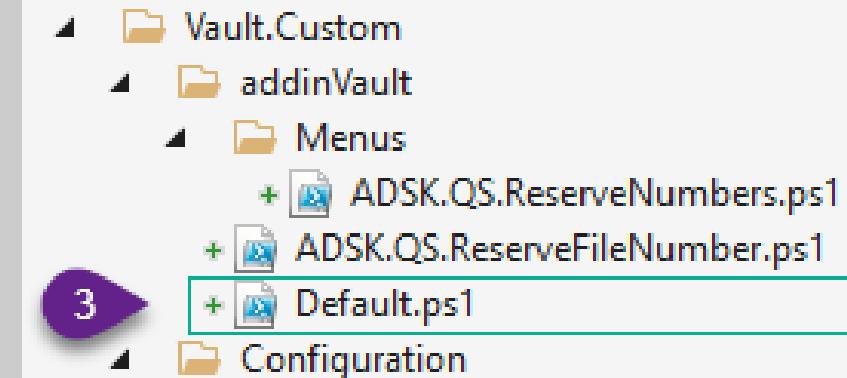
- Copy the snippet from the GitHub source and paste it into your UIString.xml file
- Localize if needed by copying and translating accordingly
 - Note – The VDS-MFG-Sample contains a localized snippet for de-DE



```
<UIString ID="ADSK-RSRVNUMBERS_MNU20">Reserve Numbers...</UIString>
<UIString ID="ADSK-RSRVNUMBERS_LBL105">Range to Reserve</UIString>
<UIString ID="ADSK-RSRVNUMBERS_LBL106">Generated Numbers</UIString>
<UIString ID="ADSK-RSRVNUMBERS_LBL107">File</UIString>
<UIString ID="ADSK-RSRVNUMBERS_LBL108">Item</UIString>
<UIString ID="ADSK-RSRVNUMBERS_LBL109">Change Order</UIString>
<UIString ID="ADSK-RSRVNUMBERS_LBL110">Scheme Type</UIString>
<UIString ID="ADSK-RSRVNUMBERS_MSG03">How to use this tool?</UIString>
<UIString ID="ADSK-RSRVNUMBERS_MSG04">Select Numbering Type and Range</UIString>
<UIString ID="ADSK-RSRVNUMBERS_MSG05">Set the quantity of numbers</UIString>
<UIString ID="ADSK-RSRVNUMBERS_MSG06">Execute.</UIString>
<UIString ID="ADSK-RSRVNUMBERS_MSG07">All numbers generated are</UIString>
<UIString ID="ADSK-RSRVNUMBERS_MSG08">Reserve Item Numbers will be</UIString>
<UIString ID="ADSK-RSRVNUMBERS_MSG09">Press OK to continue creation</UIString>
<UIString ID="ADSK-RSRVNUMBERS_TT32">Insert Result at target location</UIString>
<UIString ID="ADSK-RSRVNUMBERS_TT33">Generates Numbers and adds them to</UIString>
<UIString ID="ADSK-RSRVNUMBERS_BTN7">Run</UIString>
<UIString ID="ADSK-RSRVNUMBERS_BTN8">Close</UIString>
```

User Interface | Script

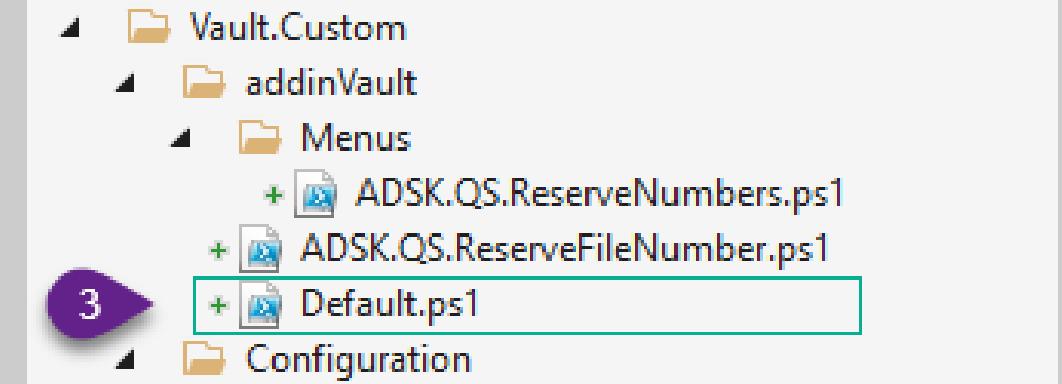
- Edit the copied file
.\Vault.Custom\Default.ps1
 - Copy the "ReserveNumberWindow" switch from the GitHub source to the function **InitializeWindow** in your file.



```
function InitializeWindow
{
    #begin rules applying commonly
    InitializeWindowTitle
    InitializeNumSchm
    InitializeCategory
    InitializeNameValidation
    #end rules applying commonly
    $mWindowName = $dsWindow.Name
    switch($mWindowName)
    {
        "FileWindow"
        {
            #rules applying for File
        }
        "FolderWindow"
        {
            #rules applying for Folder
        }
        "CustomObjectWindow"
        {
            #rules applying for Custom Object
        }
        "ReserveNumberWindow"
        {
            $dsWindow.FindName("cmbNumType").add_SelectionChanged({
                mGetNumSchms
            })
        }
    }
}
```

User Interface | Script

- Edit the copied file
.\Vault.Custom\Default.ps1
 - Copy/Replace the default switch of the function **InitializeNameValidation** from the GitHub source to the function in your copied file.



```
function InitializeNameValidation()
{
    $mWindowName = $dsWindow.Name
    switch($mWindowName)
    {
        "FileWindow"
        {
            $nameProp = "_FileName"
        }
        "FolderWindow"
        {
            $nameProp = "_FolderName"
        }
        "CustomObjectWindow"
        {
            $nameProp = "_CustomObjectName"
        }
        default {
            $nameProp = ""
        }
        if ($Prop[$nameProp].Length -ne 0) {
            $Prop[$nameProp].CustomValidation = { NameCustomValidation }
        }
    }
}
```

Menu Definition

- Edit the copied file .\Vault.Custom\MenuDefinition.xml
 - Copy and paste the Menu item to your copied menu definition file
 - Copy and paste the CommandSite item to the same file

The screenshot shows a Windows Explorer window and two code editors. The Explorer window displays a folder structure under 'DATASTANDARD-POWERGATE ...'. In the code editors, the top one shows the XML content of 'MenuDefinitions.xml' with a specific menu item highlighted by a yellow box. The bottom code editor shows the XML content of 'MenuDefinitions.xml' with a command site item highlighted by a yellow box.

Top Editor Content (MenuDefinitions.xml):

```
<?xml version="1.0" encoding="utf-8"?>
<!
  Label: Label string for the command, must be quoted
  Description: Description text for the menucommand. Must be quoted
  Hint: Hint string, must be quoted
  PSFile: Name of the *ps1 file that contains the powershell script to
  Image: Name of a bitmap file that contains the image for the menu com
  ToolbarPaintStyle: Controls how the item is drawn on toolbars, values
  NavigationTypes: comma separated list of entities for which this com
  MultiSelectEnabled: If true, command is active for multiple selection
-->
<mymenu>
  <MenuItem>
    <!--ReserveNumbers Menu item start-->
    <ReserveNumbers Label = "$UIString[ADSK-RSRVNUMBERS_MNU20]" Description = "Reserve Numbers" PSFile = "ADSK.QS.ReserveNumbers.ps1" Image="ReserveNumbers.ico" MultiSelectEnabled = "false"/>
    <!--ReserveNumbers Menu item end-->
  </MenuItem>
</mymenu>
```

Bottom Editor Content (MenuDefinitions.xml):

```
<!-->
<CommandSite>
  <fileContext Label="myMenu" DeployAsPullDown="False" Location="FileDialog">
    <Item Name="NewFile"></Item>
    <Item Name="EditFile"></Item>
  </fileContext>
  <FolderContext Label="myMenu" DeployAsPullDown="False" Location="FolderContext">
    <Item Name="NewFile"></Item>
    <Item Name="NewFolder"></Item>
    <Item Name="EditFolder"></Item>
  </FolderContext>
  <StandardToolbar Label="myMenu" DeployAsPullDown="False" Location="StandardToolbar">
    <Item Name="NewFile"></Item>
    <Item Name="EditFile"></Item>
  </StandardToolbar>
  <ToolsMenu Label="myMenu" DeployAsPullDown="False" Location="ToolsMenu">
    <Item Name="ShowLog"></Item>
    <Item Name="ReserveNumbers"></Item>
  </ToolsMenu>
  <HelpMenu Label="myMenu" DeployAsPullDown="False" Location="HelpMenu">
    <Item Name="AboutDialog"></Item>
  </HelpMenu>
</CommandSite>
```