

VBA: Check ArcSDE Registered-As-Versioned Status

Contributed by Bert Granberg
24, Nov. 2008
Last Updated 24, Nov. 2008

This code can be used to check and update your ArcSDE feature classes and feature datasets in 'Registered As Versioned' mode.

It will check the registered as versioned status for all selected feature datasets and standalone feature classes and produce a report in a time-stamped text file.

Where possible -- if your connection user is the owner of the data AND there are no existing read locks -- the script will register FC's and FDS's as versioned that are not so already. To use:

- Paste the code below into ArcCatalog's VBA Editor(F11 --> View --> Project Explorer -->ArcCatalog Objects-->ThisDocument)
- Select SDE feature classes or feature datasets from the Contents tab in ArcCatlog (not to be confused with the tree view)
- Run the subprocedure named VersionSDEDatasets

```
Private Sub VersionSDEDatasets()
```

```
    Dim outputLocation as String
    outputLocation = "c:\temp\"
```

```
    Open outputLocation & "unregistered_logfile_" & Format(Now, "yymmddhhmm") & ".txt" For Output As #1
```

```
    Dim pGxApp As IGxApplication
    Dim pSelGxObject As IGxObject
    Dim pGxSel As IGxSelection
    Dim pEnumGxObjSel As IEnumGxObject
    Dim isVersioned As Boolean
```

```
    Set pGxApp = Application
    Set pGxSel = pGxApp.Selection
    Set pEnumGxObjSel = pGxSel.SelectedObjects
    pEnumGxObjSel.Reset
    Set pSelGxObject = pEnumGxObjSel.Next
```

```
    Do Until pSelGxObject Is Nothing
        If pSelGxObject.Category = "SDE Feature Class" Then
            isVersioned = checkVersioned(pSelGxObject, True)
            Debug.Print isVersioned & " " & pSelGxObject.FullName
            Print #1, isVersioned & " " & pSelGxObject.FullName
        ElseIf pSelGxObject.Category = "SDE Feature Dataset" Then
            Dim pGxObjContainer As IGxObjectContainer
            Dim pEnumGxObj As IEnumGxObject
            Dim pCurrGxObject As IGxObject
            Set pGxObjContainer = pSelGxObject
```

```
            isVersioned = checkVersioned(pSelGxObject, True)
            Debug.Print isVersioned & " " & pSelGxObject.FullName
            Print #1, pSelGxObject.FullName
```

```
            If pGxObjContainer.HasChildren Then
                Set pEnumGxObj = pGxObjContainer.Children
                If Not pEnumGxObj Is Nothing Then
                    Set pCurrGxObject = pEnumGxObj.Next
                    Do Until pCurrGxObject Is Nothing
                        If pCurrGxObject.Category = "SDE Feature Class" Then
                            isVersioned = checkVersioned(pCurrGxObject, False)
                            Debug.Print " " & isVersioned & " " & pCurrGxObject.FullName
```

```
        Print #1, " " & isVersioned & " " & pCurrGxObject.FullName
    End If
    Set pCurrGxObject = pEnumGxObj.Next
Loop
End If
End If
End If
Set pSelGxObject = pEnumGxObjSel.Next
Loop
Close #1
Close #2
End Sub
```

```
Public Function checkVersioned(inGxObj As IGxObject, register As Boolean) As Boolean
```

```
    On Error GoTo ErrorHandler
```

```
    'Get the selected Dataset
```

```
    Dim pGxApp As IGxApplication
```

```
    Set pGxApp = Application
```

```
    Dim pgxDataset As IGxDataset
```

```
    Dim pDataset As IDataset
```

```
    Dim pVersionedObject As IVersionedObject
```

```
    If TypeOf inGxObj Is IGxDataset Then
```

```
        Set pgxDataset = pGxApp.SelectedObject
```

```
        Set pDataset = pgxDataset.Dataset
```

```
        Set pVersionedObject = pDataset
```

```
        If pVersionedObject.IsRegisteredAsVersioned Then
```

```
            checkVersioned = True
```

```
        Else
```

```
            checkVersioned = False
```

```
        If register Then
```

```
            checkVersioned = True 'as it will be newly versioned
```

```
            pVersionedObject.RegisterAsVersioned True
```

```
        End If
```

```
    End If
```

```
End If
```

```
Exit Function
```

```
ErrorHandler:
```

```
    'Feature Dataset Locked!!
```

```
    checkVersioned = False
```

```
    Debug.Print "LOCKED " & inGxObj.FullName
```

```
    Print #1, "LOCKED " & inGxObj.FullName
```

```
    Resume Next
```

```
End Function
```