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| *Pacific Gas and Electric Company* | |
| Release 8 Installation Guide | |
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|  |  |
| Project | ED AM/GIS |
|  |  |
| Prepared by | Bhaskar Singh, Ashish Narasimham |
| Date | 4/9/2014 |
| Version | 1.0 |
| Version Type | Final |

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| 1.0 | 4/01/14 | Bhaskar Singh, Ashish Narasimham | Initial Document Creation |
|  |  |  |  |
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|  |  |  |  |

# Introduction

## Purpose

This document is intended to detail the implementation and configuration steps required to implement EDER2.0 Release Installation Guide. This document describes the various configuration aspects required to complete any manual or automatic patch associated with this release. Each section in this document contains the steps required to patch the system in production.

## Terms Used

|  |  |
| --- | --- |
| OOTB | Out of the box. Unmodified from the commercial version. |
| TFS | Team Foundation Server |

## 

## External Documents

Referenced are any external configuration documents or exports. These are documents that contain more detailed information about configuring a system or documents that can be loaded into an application to perform the configuration detailed in this document.

1. Link for support documents:[\\sfetgis-nas01\sfgispoc\_data\ApplicationDevelopment\IBM\_Delivery\EDER 2.0\Release Documents](file:///\\sfetgis-nas01\sfgispoc_data\ApplicationDevelopment\IBM_Delivery\EDER%202.0\Release%20Documents)

## Summary of Steps to Complete Patch

These are the high-level steps to complete the installation and configuration of the data model patch. Use this table as a guide for completing the installation. Links are provided that can lead either within the document for detailed explanations or to external sites such as Sharepoint.

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# Open a Database Connection in ArcCatalog

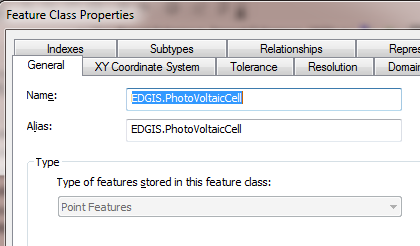
1. Open ArcCatalog.
2. Within the Catalog Tree, expand “Database Connections” and open the active connection for this process. This is the connection that is referenced in the change request associated with this document (EDGIS<DB name in the format X#Y> )

# [CR13273](http://edappgistfsprd1:8080/tfs/ElectricDistCollection/EDAMGIS/_workitems#_a=edit&id=13273): Photovoltaic Cell Display

**PHOTO VOLTAIC CELL**

a) Create PhotoVoltaicCell featureclass under EDGIS.ELECTRICDataset

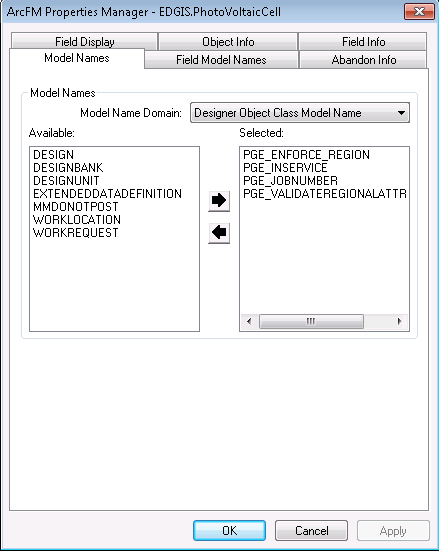
**FEATURE CLASS TYPE**  Point



**FEATURE CLASS FIELD PROPERTIES**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Alias Name** | **Data Type** | **size** | **Domain** |
| OBJECTID | Object ID | Object ID |  |  |
| CREATIONUSER | Creation User | Text | Allow Null Values – yes  Length -15 |  |
| DATECREATED | Date Created | Date | Allow Null Values – yes |  |
| DATEMODIFIED | Date Modified | Date | Allow Null Values – yes |  |
| LASTUSER | Last User | Text | Allow Null Values – yes  Length -15 |  |
| CONVERSIONID | Conversion ID | Long Integer | Allow Null Values – yes  Length -10 |  |
| CONVERSIONWORKPACKAGE | Conversion Work Package | Text | Allow Null Values – yes  Length -6 | Conversion Work Package |
| STATUS | Status | Short Integer | Allow Null Values – yes  Precision -2 | Construction Status |
| INSTALLATIONDATE | Date Installed | Date | Allow Null Values – yes |  |
| LOCATIONID | Location ID | Text | Allow Null Values – yes  Length -20 |  |
| SYMBOLROTATION | Symbol Rotation | Double | Allow Null Values – yes  Precision -38  Scale-8 |  |
| INSTALLJOBPREFIX | Job Prefix | Text | Allow Null Values – yes  Length -3  Default - PM | JobPrefixCode |
| INSTALLJOBYEAR | Year Installed | Short Integer | Allow Null Values – yes  Length -4 |  |
| LOCATIONDESC | Location Description | Text | Allow Null Values – yes  Length -100 |  |
| COMMENTS | Comments | Text | Allow Null Values – yes  Length -255 |  |
| COUNTY | County | Short Integer | Allow Null Values – yes  Precision -5 | County Name |
| ZIP | ZIP Code | Text | Allow Null Values – yes  Length -10 |  |
| SUBTYPECD | Subtype | Long Integer | Allow Null Values – No  Precision -10  Default Value - 1 |  |
| LOCALOFFICEID | LOCALOFFICEID | Text | Allow Null Values – yes  Length -4 | Local Offices |
| DISTRICT | District | Long Integer | Allow Null Values – yes  Precision -10 | District Name |
| DIVISION | Division | Short Integer | Allow Null Values – yes  Precision -5 | Division Name |
| REGION | Region | Text | Allow Null Values – yes  Length -10 | Region |
| INSTALLJOBNUMBER | Job Number | Text | Allow Null Values – yes  Length -14 |  |
| CITY | City | Text | Allow Null Values – yes  Length -40 |  |
| SHAPE |  | Geometry |  |  |
| STRUCTUREGUID | STRUCTUREGUID | Guid | Allow Null Values – yes |  |
|  |  |  |  |  |

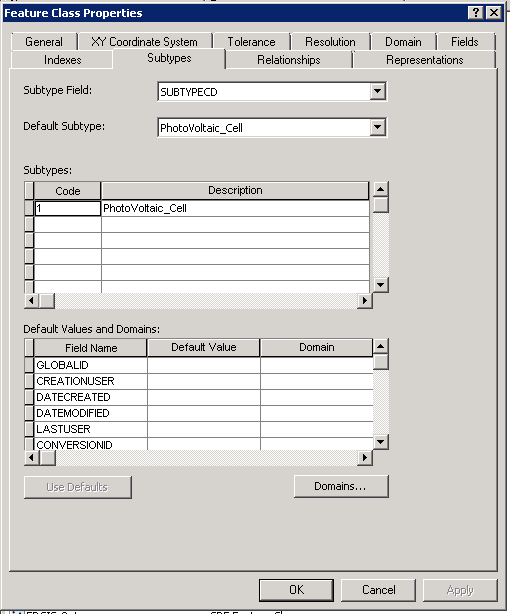
**MODEL NAMES**



**FIELD MODEL NAMES**

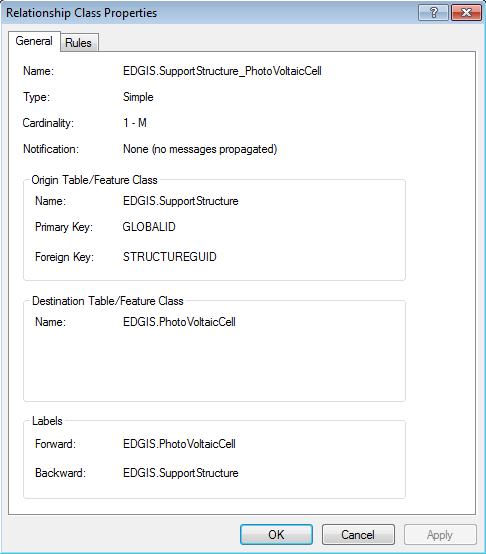
|  |  |
| --- | --- |
| **Field Name** | **Field Model Names** |
| STATUS | PGE\_STATUS,PGE\_TRIGGERMAPCHANGE |
| INSTALLATIONDATE | PGE\_INSTALLATIONDATE |
| SYMBOLROTATION | SYMBOLROTATION |
| INSTALLATIONJOBYEAR | PGE\_INSTALLJOBYEAR |
| COUNTY | PGE\_INHERITCOUNTY |
| ZIP | PGE\_INHERITZIP |
| SUBTYPECD | PGE\_TRIGGERMAPCHANGE |
| LOCALOFFICEID | PGE\_LOCALOFFICE |
| DISTRICT | PGE\_INHERITDISTRICT |
| DIVISION | PGE\_INHERITDIVISION |
| REGION | PGE\_INHERITREGION |
| INSTALLJOBNUMBER | PGE\_JOBNUMBER |
| CITY | PGE\_INHERITCITY |

**Add Subtype (**PhotoVoltaic\_Cell)

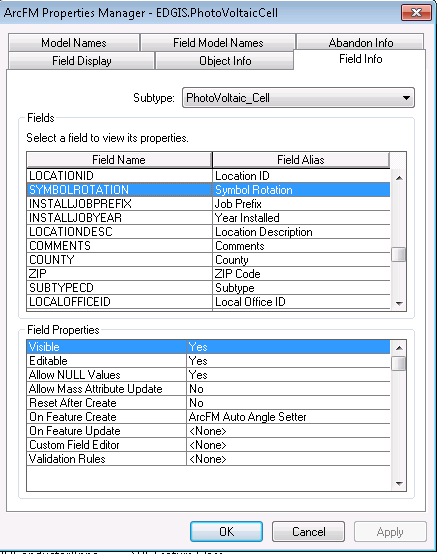


**RELATIONSHIP**

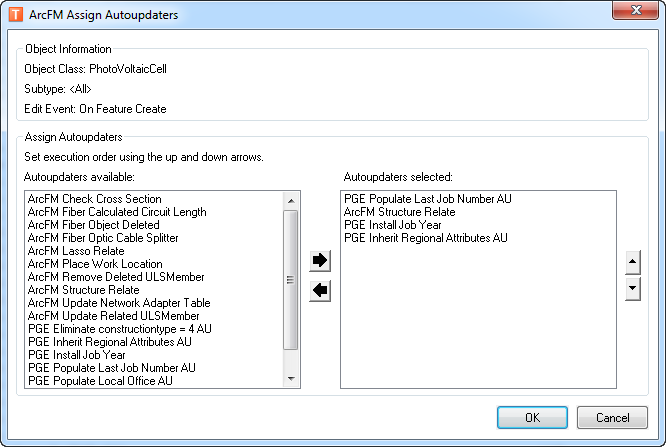
* Create relationship inside the **Electric Dataset**



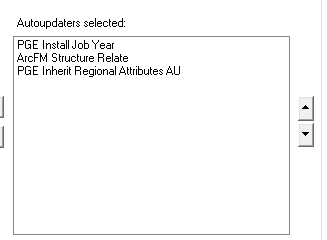
*Auto angle setter-*



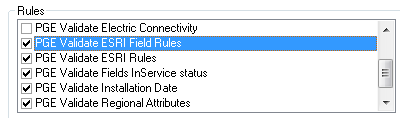
*On feature create –*



*On feature update –*

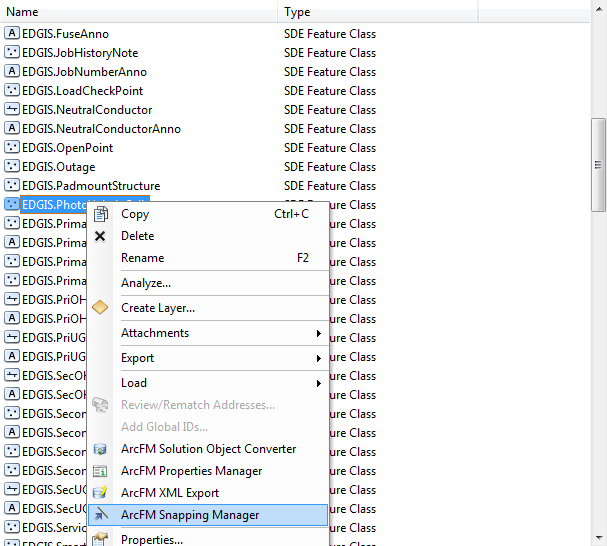


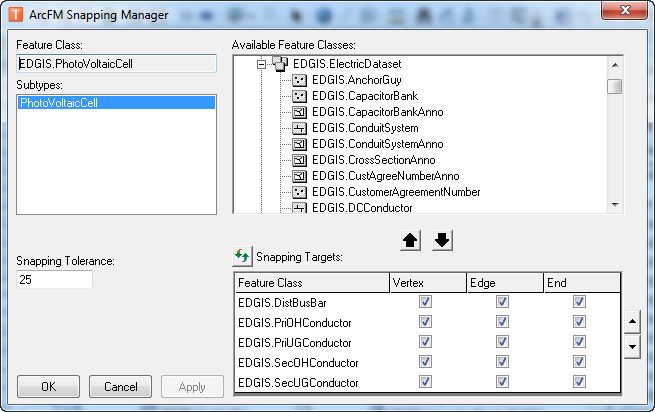
*Validation rules*

**

**SNAPPING RULES**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Feature Class | Sub Type | Snap to Feature Classes | Snapping Tolerance | Snapping Targets |
| PhotoVoltaicCell | PhotoVoltaicCell | DistBusBar,PriOHConductor,  PriUGConductor,SecOHConductor,  SecUGConductor | 25 | Vertex,Edge,End |



**Register as version:**  Register ElectricDataset as versioned. If PhotovoltaicCell is already registered as versioned in the Properties window, this step can be skipped.

**Add GLOBALID field:** Right click the electric dataset and select Add Global IDs.

**Privileges**

Setup privileges on the feature dataset. It is easiest to do this through ArcCatalog – right click on the dataset and click “Privileges”. Provide with the following privileges

* SDE\_VIEWER – view privileges
* SDE\_EDITOR – full edit privileges

**Stored Display Changes**

1) Open Arcmap.

2) Open EDMASTER Stored Display.

3) Right Click EdMaster Data Frame and add the layer from the context menu.

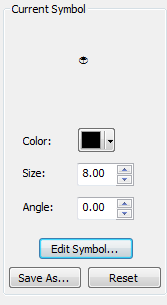
4) Drag the layer below the StreetLight layer.

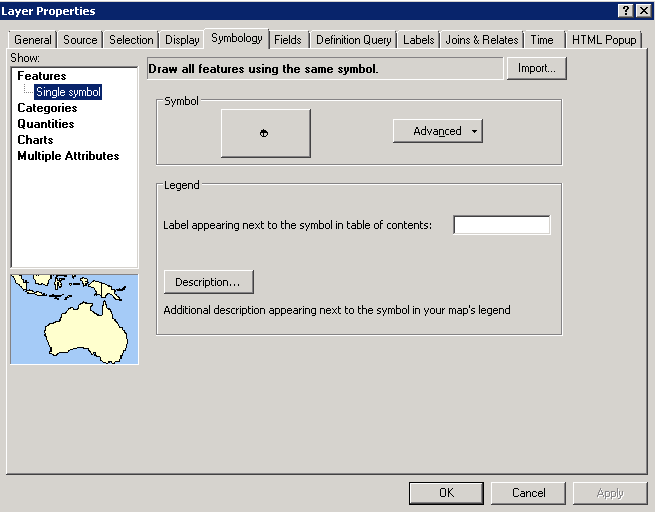
5) Save the ED Master Stored Display.

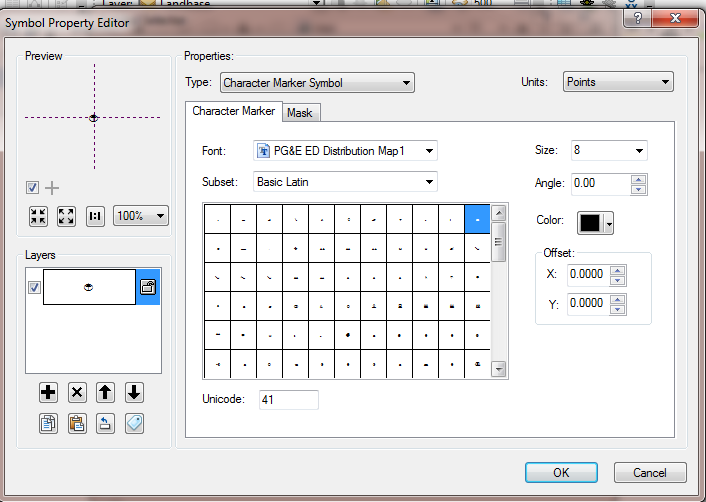
Repeat the steps 2 – 5 for the ED Mapping Stored Display.

**SYMBOLOGY (Simple Symbol)**

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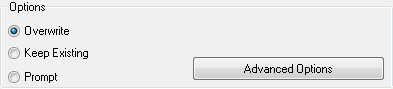
**Setting Up Feature Class as part of existing Stored Displays**

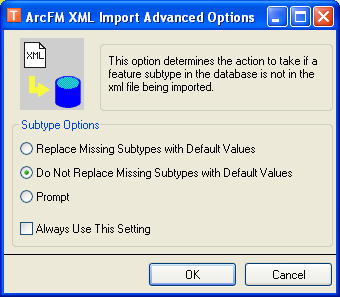
1) Add the created feature class to the existing stored displays (ED Master and ED Mapping) as a part of **Devices** Group Layer below Street Light Feature Class.

2) Go to Layer Properties by right clicking the Photo Voltaic Cell Feature class and set Don’t show layer when zoomed out beyond 1:6000 minimum scale.

3) Save the Stored Displays and verify if they are included as a part of the stored displays (ED Master and ED Mapping).

# Import XMLs

1. Copy the XML files locally. Refer to [Section 1.3](#_External_Documents) for files.
2. Select the geodatabase into which you want to import information.
3. Click the ArcFM XML import  http://resources.arcfmsolution.com/10.1/ArcCatalogTools/images/import_icon.png button on the ArcFM Solution toolbar or right-click the geodatabase and select ArcFM XML Import. This tool is enabled only at the geodatabase level. You may click the Esc key to dismiss the XML Import dialog.
4. Select ‘Overwrite’  
   
5. Click the Advanced Options button.



1. Click OK.
2. Browse for and open the XML file to be imported.
3. Click Import. A progress bar will be displayed to show the status of the import
4. Check the import log and verify all information is imported correctly.
5. Repeat the above steps for all xml files.

# [CR 12712](http://edappgistfsprd1:8080/tfs/ElectricDistCollection/EDAMGIS/_workitems#_a=edit&id=12712):EDER2030-Prevent loops in the Primary Network from being posted – Config changes

1. Insert a record in TELVENT\_VALIDATION\_SEVERITYMAP table for this validation rule ("PGE Validate Loop Feature") to mention it as “Error” (Severity field value will be 0).  
   INSERT INTO SDE.TELVENT\_VALIDATION\_SEVERITYMAP(OBJECTID,NAME,SEVERITY) values(R657.NEXTVAL,'PGE Validate Loop Feature',0);
2. commit;

# [CR 12713](http://edappgistfsprd1:8080/tfs/ElectricDistCollection/EDAMGIS/_workitems#_a=edit&id=12713):EDER2031-Prevent multi-fed features from being posted – Config changes

1. Insert a record in TELVENT\_VALIDATION\_SEVERITYMAP table for this validation rule ("PGE Validate Multi-feed Feature") to mention it as “Error” (Severity field value will be 0).INSERT INTO SDE.TELVENT\_VALIDATION\_SEVERITYMAP(OBJECTID,NAME,SEVERITY) values(R657.NEXTVAL,'PGE Validate Multi-feed Feature',0);
2. commit;

# [CR 12714](http://edappgistfsprd1:8080/tfs/ElectricDistCollection/EDAMGIS/_workitems#_a=edit&id=12714):EDER2032-Prevent feature island(s) from being posted – Config changes

1. Insert a record in TELVENT\_VALIDATION\_SEVERITYMAP table for this validation rule ("PGE Validate Island Feature") to mention it as “Error” (Severity field value will be 0).

INSERT INTO SDE.TELVENT\_VALIDATION\_SEVERITYMAP(OBJECTID,NAME,SEVERITY) values(R657.NEXTVAL,'PGE Validate Island Feature',0);

1. commit;

# [CR 12716](http://edappgistfsprd1:8080/tfs/ElectricDistCollection/EDAMGIS/_workitems#_a=edit&id=12716):EDER2032-Prevent posting of features with null Circuit ID – Config changes

1. If not present, insert a record in TELVENT\_VALIDATION\_SEVERITYMAP table for this validation rule ("PGE Validate Source Connectivity") to mention it as “Error” (Severity field value will be 0).
2. INSERT INTO SDE.TELVENT\_VALIDATION\_SEVERITYMAP(OBJECTID,NAME,SEVERITY) values(R657.NEXTVAL,'PGE Validate Source Connectivity',0);
3. Commit;
4. Perform the following steps:
5. Go to the ArcFM Properties for ElectricStitchPoint.
6. Go to the Field Model Names tab and scroll down to the Status field.
7. Ensure that the PGE\_STATUS field model name is assigned to the field.

# [CR 12717](http://edappgistfsprd1:8080/tfs/ElectricDistCollection/EDAMGIS/_workitems#_a=edit&id=12717):EDER2038-Prevent posting of features with “Wrong LO” – Config changes

1. If not present, insert a record in TELVENT\_VALIDATION\_SEVERITYMAP table for this validation rule ("PGE Validate Local Office") to mention it as “Error” (Severity field value will be 0).
2. INSERT INTO SDE.TELVENT\_VALIDATION\_SEVERITYMAP(OBJECTID,NAME,SEVERITY) values(R657.NEXTVAL,'PGE Validate Local Office',0);
3. Commit;

# [CR 12719](http://edappgistfsprd1:8080/tfs/ElectricDistCollection/EDAMGIS/_workitems#_a=edit&id=12719): EDER2039, EDER 2040, EDER 2041 -- Prevent posting features with"DUP MAP", "NO MAP" and null map value -- Config changes

1. Insert a record in TELVENT\_VALIDATION\_SEVERITYMAP table for this validation rule ("PGE Validate Map") to mention it as “Error” (Severity field value will be 0).
2. INSERT INTO SDE.TELVENT\_VALIDATION\_SEVERITYMAP(OBJECTID,NAME,SEVERITY) values(R657.NEXTVAL,'PGE Validate Map',0);
3. commit;

# [CR12792](http://edappgistfsprd1:8080/tfs/ElectricDistCollection/EDAMGIS/_workitems#_a=edit&id=12792):EDER2007/EDER2007A - ED0007 Instructions

 One Time steps:

1. Run the “Create\_Table\_Scrit.sql” Script as EDGIS in SQLPLUS. Refer to [Section 1.3](#_External_Documents) file location.
2. Log into ArcCatalog as EDGIS and right click ‘New Table’ at the root level.
3. Enter the name as “sap\_to\_gis”.
4. Enter the Alias as “sap\_to\_gis”.
5. Click Next.
6. Click Next again.
7. Enter “SAP\_EQUIPMENT\_ID” in Field Name, Select Data Type as “Text”, Change Length as 18.
8. Enter “EQUIPMENT\_NAME” in Field Name, Select Data Type as “Text”, Change Length as 255.
9. Enter “SAP\_EQUIPMENT\_TYPE” in Field Name, Select Data Type as “Text”, Change Length as 255.
10. Enter “GUID” in Field Name, Select Data Type as “Text”, Change Length as 100.
11. Click Finish.
12. Run the “stored\_procedures.sql” Script as EDGIS. Refer to [Section 1.3](#_External_Documents) for file location.
13. Make sure all 3 stored procedures are compiled in the database.
14. Grant permission to all the store procedure (**execute**) and table (**select, insert, update and delete**) to gis\_i user. Make sure table and store procedure are accesible for gis\_i user.
    1. grant all on edgis.gis\_guid to gis\_i;
    2. grant all on edgis.sap\_to\_gis to gis\_i;
    3. grant all on edgis.sap\_integrated\_result to gis\_i;
    4. grant all on edgis.truncate\_sap\_tables to gis\_i;
    5. grant all on edgis.insert\_sap\_integrated\_result to gis\_i;
    6. grant all on edgis.load\_gis\_guid to gis\_i;
15. Execute setup.exe. Refer to [Section 1.3](#_External_Documents) for the location.
16. Browse to the location of the installed files (C:\Program Files (x86)\Pacific Gas and Electric Co\IBM.PGE.ED007 on the computer used to test this guide) and open the file LoadingDataInOracle.exe.config in Notepad.
17. Edit the sde file path to reference gis\_i on the target database. Change the ‘value’ tag to point to the location of the SDE file:
    1. <add key="Sde\_File\_Path" value="C:\\Users\\**UserNameChangeMe** \\AppData\\Roaming\\ESRI\\Desktop10.0\\ArcCatalog\\gis\_i@edgisa1d.sde"/>
18. Change the Oracle Connection String’s Data Source, User ID, and Password to point to the correct database with the correct username and password.
    1. <add key="OracleConnectionString" value="Data Source=**ChangeMe**; User Id=gis\_i; Password=gis\_i; Integrated Security=no;" />
19. Set the maxAppRunningTime ‘value’ tag to the interval in which csv files are generated. This is to ensure that if there are no csv files to read, the application will wait for new files to be put into the target (INBOUND) location for the specified amount of time before terminating.
    1. <add key="maxAppRunningTime" value="1"/> <!--Time is minute-->
20. Set the TriggerFileCheckInterval variable to a value to specify the interval in which the application will check for new csv files. The default is 5 seconds, so the application will check for new files every 5 seconds.
    1. <add key="TriggerFileCheckInterval" value="5000"/> <!-- Value in MilliSecond. Every 1000 equals to 1 second.-->
21. Modify Archive\_File\_Location, TriggerFile\_Path, and Exception\_FileName if necessary to specify the following:
    1. Archive\_File\_Location – The location in which files will be placed by the application after they are consumed
    2. TriggerFile\_Path – Must be named exactly as specified in the config file. This specifies the location of the trigger file used.
    3. Exception\_FileName – Specifies the location of the file into which exceptions will be written if encountered.
22. If you would like to perform a one-time run of the application:
    1. Open a command prompt and cd to the location of the LoadingDataInOracle.exe file (C:\Program Files (x86)\Pacific Gas and Electric Co\IBM.PGE.ED007 on the tested computer)
    2. Run the executable from the command prompt
23. If you would like to schedule this task to run periodically, open the Task Scheduler and schedule the executable.

# [CR12863](http://edappgistfsprd1:8080/tfs/ElectricDistCollection/EDAMGIS/_workitems#_a=edit&id=12863): Provide a tool to Deactivate Conduit Systems, Sub-Surface Structures, Primary UG Conductor and Secondary UG Conductor

 Steps:

1. Open ArcCatalog.
2. Create a field DEACTIVATEDINDICATOR in "ConduitSystem" and "SubsurfaceStructure" feature class. The details are as follows:  
    Field Name: DEACTIVATEDINDICATOR  
    Data Type: Text  
    Allow Null Values: Yes  
    Length: 5  
    Domain: Yes No Indicator

Default Value: N

Field Alias: DeActivated IDC

1. In database, run the below scripts:
2. Update edgis.conduitsystem set DEACTIVATEDINDICATOR = 'N' where DEACTIVATEDINDICATOR is null;  
    /  
    Update edgis.subsurfacestructure set DEACTIVATEDINDICATOR = 'N' where DEACTIVATEDINDICATOR is null;  
    /  
    Commit;
3. In ArcFM Properties Manager, Assign PGE\_DEACTIVATEINDICATOR Field model name to the DEACTIVATEDINDICATOR field of ConduitSystem and SubsurfaceStructure feature class.
4. For PriUGConductor and SecUGConductor, open ArcFM Properties Manager, go to "Abandon Info" tab, select "Deactivated Electric Line Segment" at the "Abandon To" dropdown. Select "ArcFM Abandon Unrelate and Relate" at "On Abandon" dropdown. Click Apply. Click OK.
5. Get the "Deactivated Electric Line Segment.lyr" file from attachment.
6. Open ArcMap
7. Open EDMapping stored Display
8. At the "Table Of Content", Select List By Source.
9. Select "Deactivated Electric Line Segment". Right Click on it. Select "Properties...”
10. Go to "Symbology" tab. Click on the "Import" button.
11. Select "Import symbology definition from another layer in the map or from a layer file" radio.
12. Click on the button beside the Layer dropdown and select the "Deactivated Electric Line Segment.lyr" file. Refer [Section 1.3](#_External_Documents) for location, download to your local hard drive.
13. Click Add. Click OK. Click OK.
14. Save the Stored Display.
15. Perform the above steps, starting with opening the stored display, for the ED Master stored display also.

# [CR12970](http://edappgistfsprd1:8080/tfs/ElectricDistCollection/EDAMGIS/_workitems#_a=edit&id=12970): Configure GDBM to move SSD to the Posting Service

**Perform the following steps on the Batch server for the target environment:**

Open the file: GeodatabaseManagerAdmin.config  
Note: This is normally in the directory of <Miner and Miner install location>\ArcFM Solution\Bin  
Under the ActionHandlerAssembly area, add the below line:  
<ActionHandlerAssembly type="Telvent.PGE.ED.Desktop, Version=10.0.3.0, Culture=neutral, PublicKeyToken=d01347ab6ada58e7"/>

example of what the completed file might look like:  
<ActionHandlerAssemblies>  
    <ActionHandlerAssembly type="Miner.Geodatabase, Version=10.0.0.0, Culture=neutral, PublicKeyToken=196beceb052ed5dc"/>  
    <ActionHandlerAssembly type="Miner.Process, Version=10.0.0.0, Culture=neutral, PublicKeyToken=196beceb052ed5dc"/>  
    <ActionHandlerAssembly type="Telvent.PGE.SAP.GDBM, Version=10.0.3.0, Culture=neutral, PublicKeyToken=d01347ab6ada58e7"/>  
 <ActionHandlerAssembly type="Telvent.PGE.ED.Desktop, Version=10.0.3.0, Culture=neutral, PublicKeyToken=d01347ab6ada58e7"/>  
 </ActionHandlerAssemblies>

To configure this in GDBM, do the following:  
A) Open the Geodatabase Manager configuration  
B) Select the posting service that is to be updated  
C) Select the "Version Processing" Tab  
D) Expand the Post Process  
E) Expand Session  
F) Expand the "Electric Distribution Post" object  
G) Right click on before reconcile and choose "Add Action Handler"  
F) Use the following settings for the Action Handler:  
- Action Handler = PGE AU PROCESSOR  
- Action Name: SSDPreProcessor  
Under Parameters, there will be two lines:  
1) Name:  Telvent.PGE.ED.SourceSideDevice   
Value: 1008,1007,998,1004,1003,1010,1009,1002,1005,1006,1001,1000   
Type:  Create

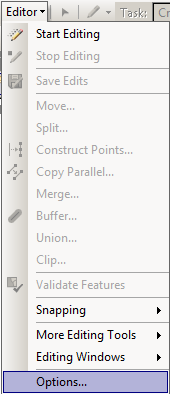
2)  
Name:  Telvent.PGE.ED.SourceSideDevice   
Value: 1008,1007,998,1004,1003,1010,1009,1002,1005,1006,1001,1000   
Type:  Update

-----------------------------------------------------------

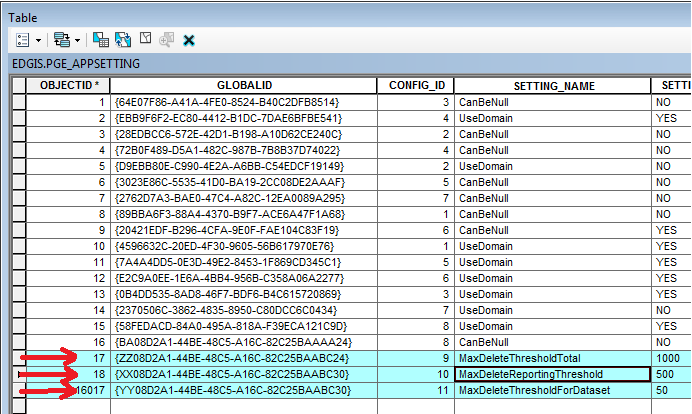
# [CR13063](http://edappgistfsprd1:8080/tfs/ElectricDistCollection/EDAMGIS/_workitems#_a=edit&id=13063): Merge Changes for QAQC Engine Updates

## Apply Changes for Max Delete Check Enhancements

1. Create settings records in the PGE\_APP\_SETTINGS table to set the maximum delete thresholds.
   1. Open up an ArcMap Session
   2. Cancel out of the ArcFM login
   3. Drag the PGE\_APP\_SETTINGS table from ArcCatalog into your ArcMap table of contents
   4. Ensure that the table is connected as EDGIS
   5. In the Editing Toolbar in ArcMap select the Editor Combo



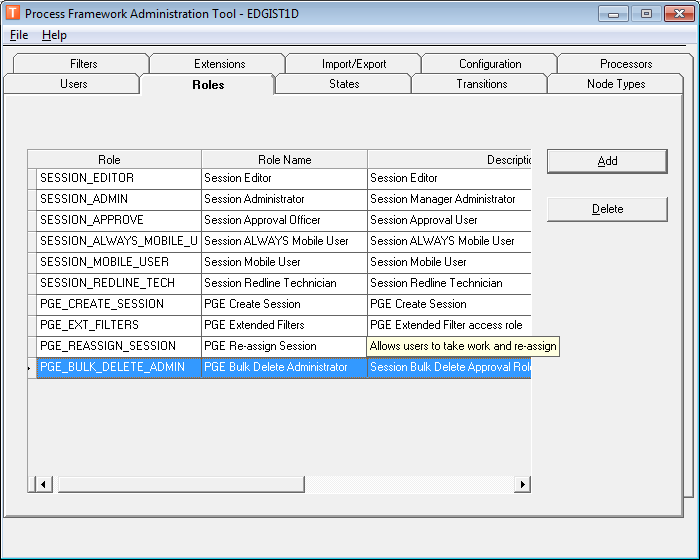
* 1. Click Options…
  2. Click on the Versioning tab
  3. Uncheck the checkbox that says “**Edit a version of the database with the ability to undo and redo”**
  4. Click OK
  5. Start editing
  6. Open the attribute table and scroll to the bottom
  7. Make sure the three Max Delete Threshold settings are as follows. Note carefully the names of these three settings as they have changed. The GlobalId field value is not required. The number of the ObjectId is not important, but **the setting values and their names MUST be per the screenshot below**.



* 1. Save edits and stop editing
  2. Close arcmap
  3. Click on the table again in ArcCatalog to verify that the edits have indeed been added in the PGE\_APPSETTING table

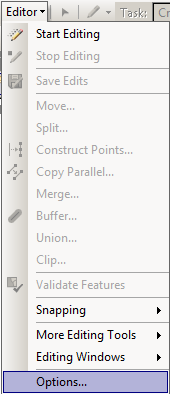
2. Add Role in the process framework, which will be allowed to Post versions which have exceeded the MaxDeleteThresholdTotal or the MaxDeleteThresholdForDataset thresholds.

1. Open up the ArcFM Process Framework Adminstration Tool
2. Login as user PROCESS
3. Select the Roles tab
4. Click Add – to add the new role
5. Enter the PGE\_BULK\_DELETE\_ADMIN for the ‘Role’ column value
6. Enter PGE Bulk Delete Administrator for the ‘Role Name’ column value
7. Enter ‘Session Bulk Delete Approval Role’ for the ‘Description’ column value
8. Select MMSessionManager for the ‘Extensions’ column value
9. Close the ArcFM Process Framework Adminstration Tool
10. At the prompt which says ‘Do you want to save your changes?’ select the ‘Yes’ button.

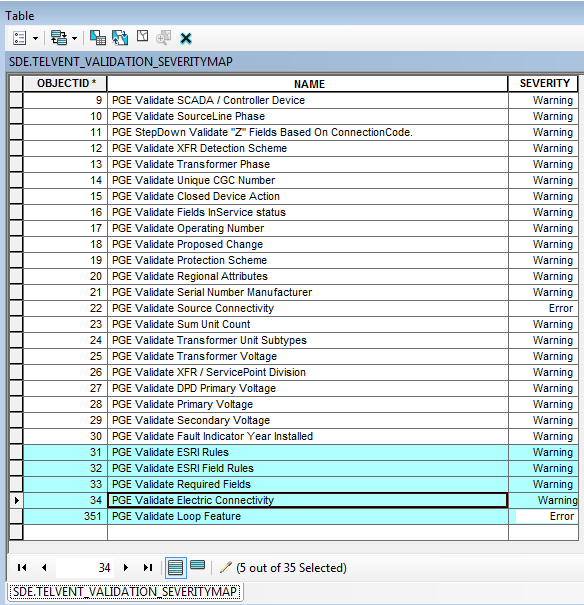


## Add New Rules to Severity Configuration Table

1. Create settings records in the PGE\_APP\_SETTINGS table to set the maximum delete thresholds.
   1. Open up an ArcMap Session
   2. Cancel out of the ArcFM login
   3. Drag the SDE.TELVENT\_VALIDATION\_SEVERITYMAP table from ArcCatalog into your ArcMap table of contents
   4. Ensure that the table is connected as SDE
   5. In the Editing Toolbar in ArcMap select the Editor Combo

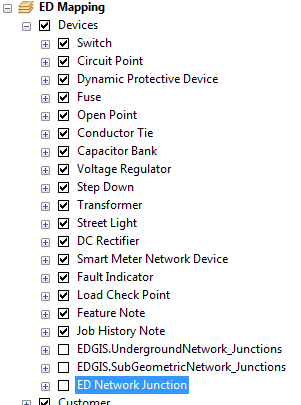


* 1. Click Options…
  2. Click on the Versioning tab
  3. Uncheck the checkbox that says “**Edit a version of the database with the ability to undo and redo”**
  4. Click OK
  5. Start editing
  6. Open the attribute table and scroll to the bottom
  7. Add the validation rules as follows, name and severity must be exactly as per the screen shot. In some cases, the rows for these rules may exist already. Please continue onto the next rule if this is the case.
  8. Stop Editing, saving your edits



# [CR13272](http://edappgistfsprd1:8080/tfs/ElectricDistCollection/EDAMGIS/_workitems#_a=edit&id=13272): Default Trace Network configuration

Change the order of Geometric Network in ED Mapping and ED Master Stored display, so that the last three layers are like this below UndergroundNetwork\_Junctions, then SubGeometricNetwork\_Junctions and then ED Network Junction

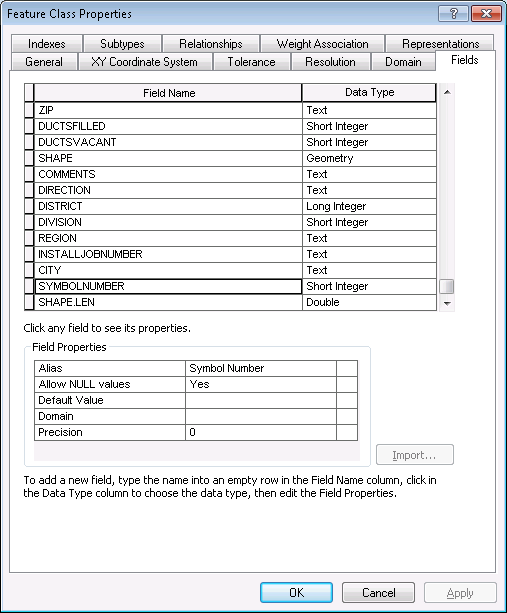


# [CR13278](http://edappgistfsprd1:8080/tfs/ElectricDistCollection/EDAMGIS/_workitems#_a=edit&id=13278): EDER 2043 \_EDER 2044 Conduit System config

Need exclusive access to the database.

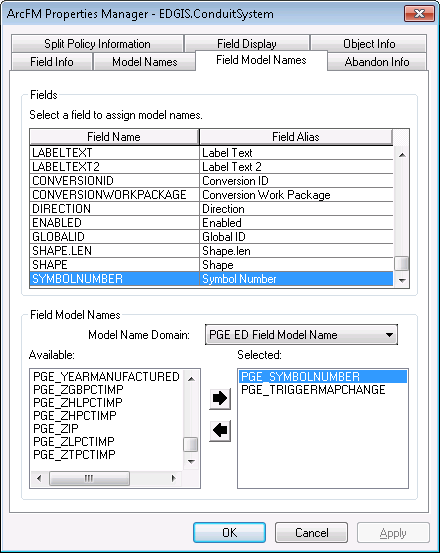
1. **Create New Field SYMBOLNUMBER**

* Create **SYMBOLNUMBER** field in Conduit System feature class and Data type to be **Short Integer**



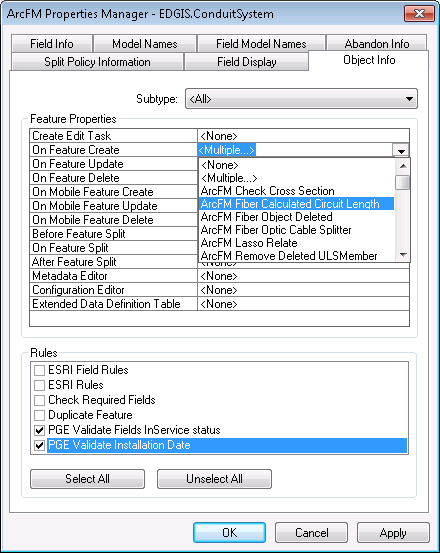
1. **Assign the ArcFM field Models to the SYMBOLNUMBER**

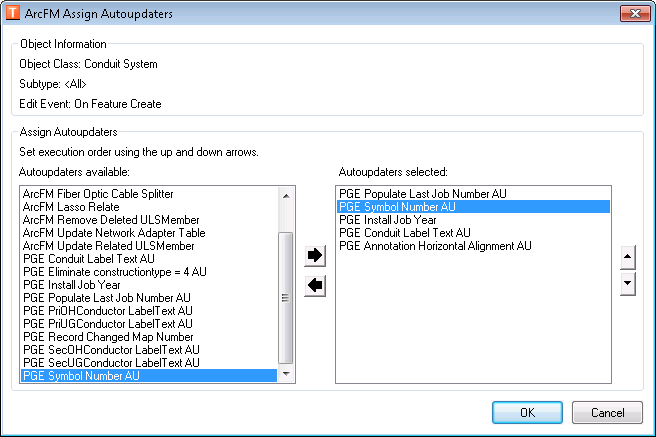
* Open ArcFM Field Properties Manager
* Go to the Field Model Names tab, select the SYMBOLNUMBER from fields
* Move PGE\_SYMBOLNUMBER & PGE\_TRIGGERMAPCHANGE to right as shown in below diagram
* Click Apply



1. **Assign AU PGE Symbol Number AU**

* Open ArcFM Field property Manager for Conduit System feature class
* Go to Object Info tab
* On Feature Create properties select Multiple as show below
* Select PGE Symbol Number AU from Auto Updaters Available: list and move to right list as show in below figure. Move the AU to top as shown below
* Click Ok & Apply

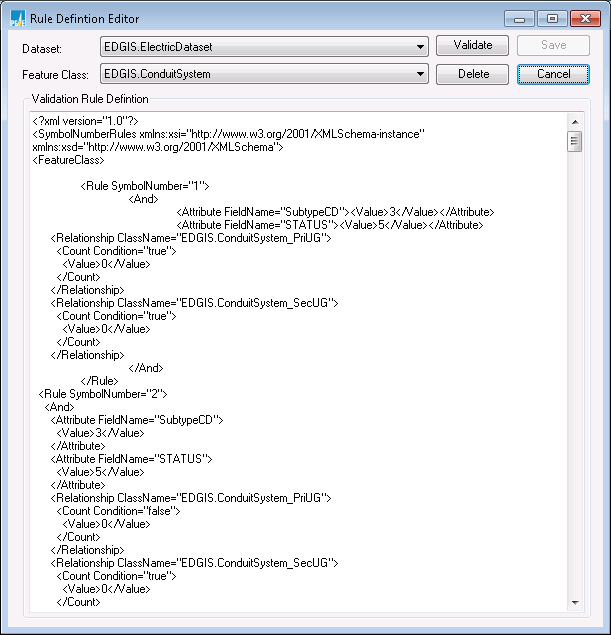




Repeat the same steps to **On Feature Update**

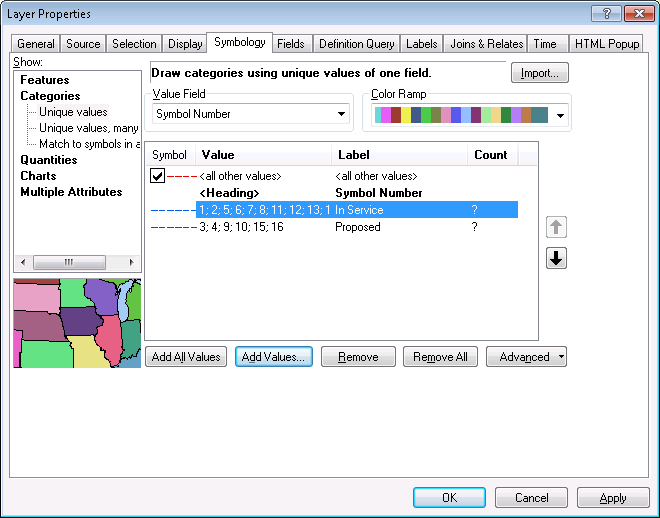
1. **Import Symbol number config to conduit system feature class**

* Open ArcMap
* Add PGE Symbol number config tool to arcMap
* Copy the symbol number config - Refer to [Section 1.3](file:///C:\Users\a1nc\EDAMGIS\Source_Development\Data%20Model\Release%20Documentation\EDER\EDER2043_implementations.docx#_External_Documents) for file location.
* Click on validate tool to check for error and save the xml config

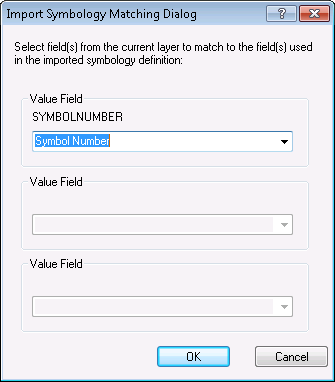


1. **Stored Display Changes**

* Apply Symbology to ED Master and ED Mapping stored display
* Open properties of Conduit System
* Go to Symbology Tab and click Import



* Browse the Layer file placed at below path and Click OK.
* Refer to [Section 1.3](file:///C:\Users\a1nc\EDAMGIS\Source_Development\Data%20Model\Release%20Documentation\EDER\EDER2043_implementations.docx#_External_Documents) for file location.
* Click the Symbol Number from dropdown and Click Ok



# CR13266: Support Structure Sybmol Number Config (INC000003837725)

**Steps:**

1. Open ArcMap, login to the target environment at the ArcFM Login Prompt

2. Open the ED Mapping Stored Display

3. Launch the *Rule Definition Editor* (a.k.a. - *Symbol Number Config*). If not present on one of the toolbars, open the *Customize* dialog, click on the *Commands* tab and click on *PGE Admin Tools*. The *Symbol Number Config* command can be found in the list. Drag the command to a location on one of the ArcMap toolbars.

4. Click on the Symbol Number Config button

5. Click the xml config file presented in the Rule Definition Editor.

6. Click Ctrl-A to select all of the xml file text

7. Open the file entitled 'SymbolNumbers\_GOLD.txt'. Refer to [Section 1.3](#_External_Documents) for location.

8. Open up the file and Click Ctrl-A to select all and Cltrl-C to copy all

9. Go back to the Rule Definition Editor where the entire xml file should be selected

10. Click Ctrl-V to paste the ENTIRE contents of 'SymbolNumbers\_GOLD.txt' replacing the original textual content of the Rule Definition Editor, with the new configuration from 'SymbolNumbers\_GOLD.txt'.

11. Click the *Validate* button to perform validation.

12. If successful, click the *Save* button.

13. Dismiss the *Rule Definition Editor* window.

# [CR 11970](http://edappgistfsprd1:8080/tfs/ElectricDistCollection/EDAMGIS/_workitems#_a=edit&id=11970): Create "REPLACEGUID" field and assign model names to feature classess for EDER2002

1. Download the files. Refer to [Section 1.3](#_External_Documents) for file location.
2. Change the SCRIPT\_GDB\_LOCATION to the correct location of the SDE file
3. Note: SDE files are usually located at C:\Users\[**username**]\AppData\Roaming\ESRI\Desktop10.0\ArcCatalog on desktop machines.
4. Run the batch script to execute the scripts required

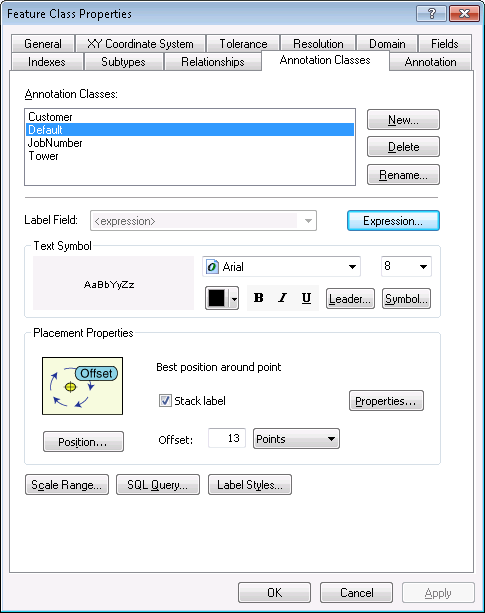
# [CR12508](http://edappgistfsprd1:8080/tfs/ElectricDistCollection/EDAMGIS/_workitems#_a=edit&id=12508): EDER 2 Data Model for ED0007 Add SAPEQUIPID to Features

1. Download the files. Refer to [Section 1.3](#_External_Documents) for file location.
2. Change the SCRIPT\_GDB\_LOCATION to the correct location of the SDE file
3. Note: SDE files are usually located at C:\Users\[**username**]\AppData\Roaming\ESRI\Desktop10.0\ArcCatalog on desktop machines.
4. Run the batch script to execute the scripts required

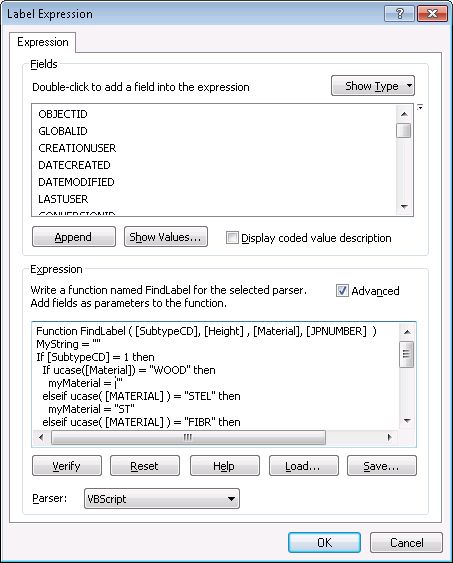
# Update Support Structure Annotation Expression

To implement these steps required exclusive access on the database. No user should be connected to the database.

1. Connect to the target database thourgh catalog
2. Open EDGIS.ElectricDataset
3. Open properties for EDGIS.SupportStructureAnno. Should see below screen shot.



1. Go to **Annotation Classes** Tab
2. Select **Default** from Annotation Classes list and click **Expression** button.
3. Remove the complete text under Expression box.



1. Copy the below expression and paste at the same place.

*Function FindLabel ( [SubtypeCD], [Height] , [Material], [JPNUMBER] )*

*MyString = ""*

*If [SubtypeCD] = 1 then*

*If ucase([Material]) = "WOOD" then*

*myMaterial = ""*

*elseif ucase( [MATERIAL] ) = "STEL" then*

*myMaterial = "ST"*

*elseif ucase( [MATERIAL] ) = "FIBR" then*

*myMaterial = "FG"*

*else*

*myMaterial = [MATERIAL]*

*end if*

*myString = [HEIGHT] +"' " + myMaterial*

*elseif [SubtypeCD] = 5 or [SubtypeCD] =4 or [SubtypeCD] = 2 or [SubtypeCD] = 8 then*

*MyString = [Height] + "' "*

*End If*

*IF [Height] <> 0 THEN*

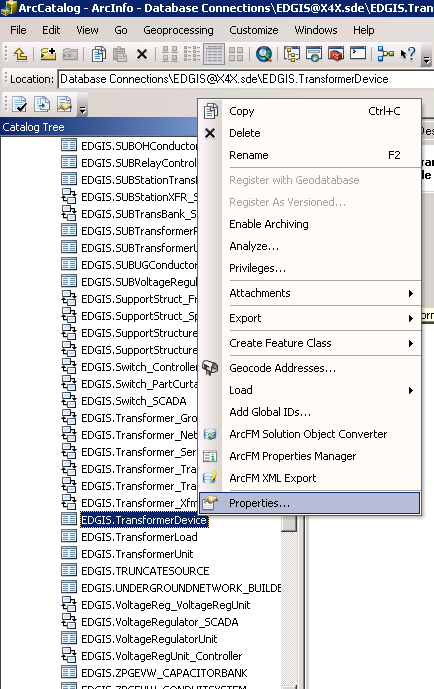
*FindLabel = MyString + vbCrLf + chr(129)*

*END IF*

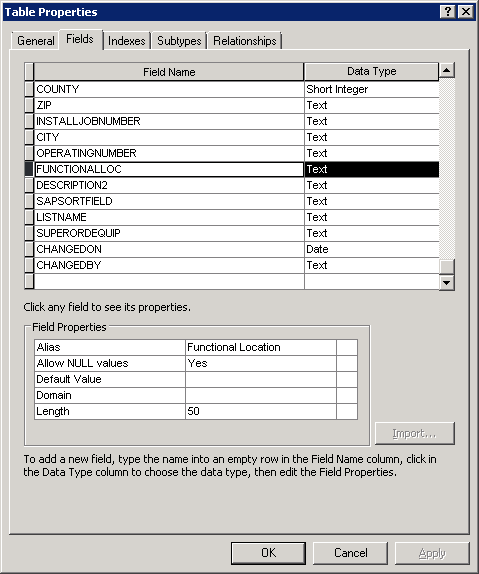
*End Function*

# [11477](http://edappgistfsprd1:8080/tfs/ElectricDistCollection/EDAMGIS/_workitems/edit/11477) [11478](http://edappgistfsprd1:8080/tfs/ElectricDistCollection/EDAMGIS/_workitems/edit/11478) Add new SAP Fields

1. Connect to the target database through ArcCatalog
2. Find the EDGIS.TransformerDevice table, right click and choose Properties (see image below)



1. On the Fields tab, scroll to the bottom of the fields list and select the empty row.
2. Type in the new field name then select the appropriate Data Type from the dropdown on the right.
3. In the Field Properties section, apply the Alias Name, Allow NULL values, size and other values as appropriate for each field. (see image below)



1. The Field changes for **TransformerDevice** are:

DESCRIPTION2, Alias = "Description2", Allow NULLS, Text(50)  
SAPSORTFIELD, Alias = "SAP Sort Field", Allow NULLS, Text(50)  
LISTNAME, Alias = "Spot Group Name", Allow NULLS, Text(50)  
FUNCTIONALLOC,  Alias = "Functional Location", Allow NULLS, Text(50)  
SUPERORDEQUIP,  Alias = "Super Order Equipment", Allow NULLS, Text(50)  
CHANGEDON,  Alias = "Changed On", Allow NULLS, Date

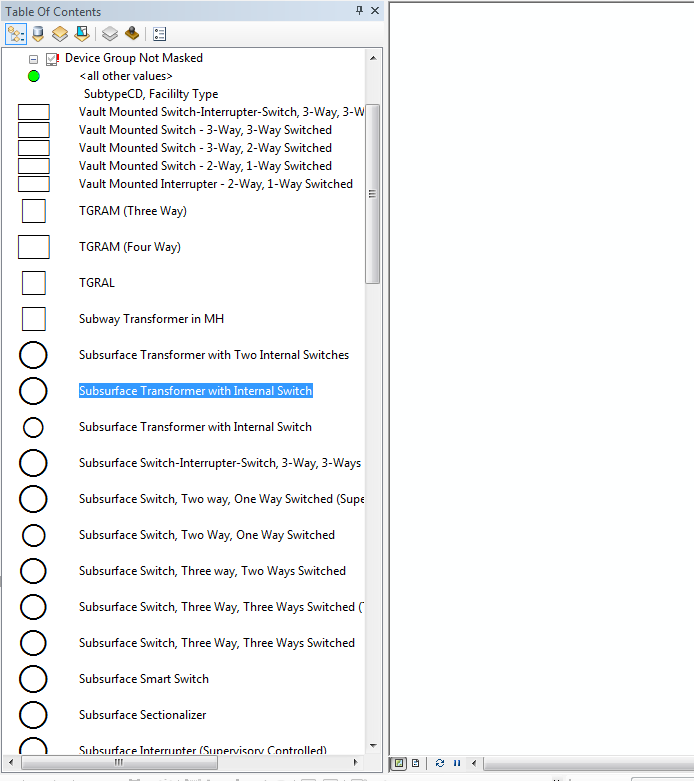
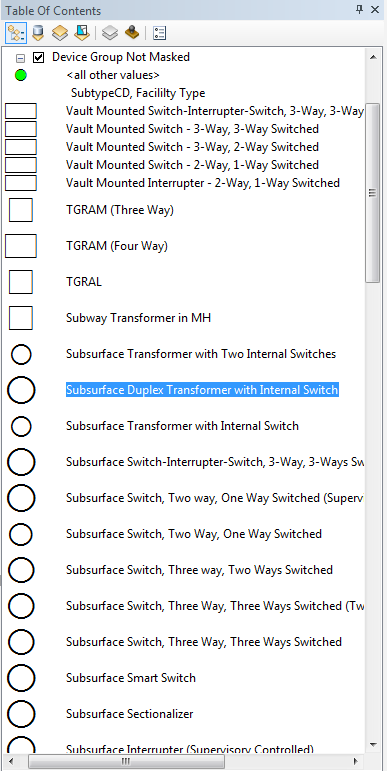
CHANGEDBY,  Alias = "Changed By", Allow NULLS, Text(50)

1. Click OK or Apply to accept the changes.
2. Find EDGIS.TransformerUnit table and select Properties.
3. Find the Fields tab, and add the fields as explained above.
4. The field changes for **TransformerUnit** are:

POSITIONDESCRIPTION, Alias = "Position Description", Allow NULLS, Text(50)  
SAPSORTFIELD, Alias = "SAP Sort Field", Allow NULLS, Text(50)  
LISTNAME, Alias = "Spot Group Name", Allow NULLS, Text(50)

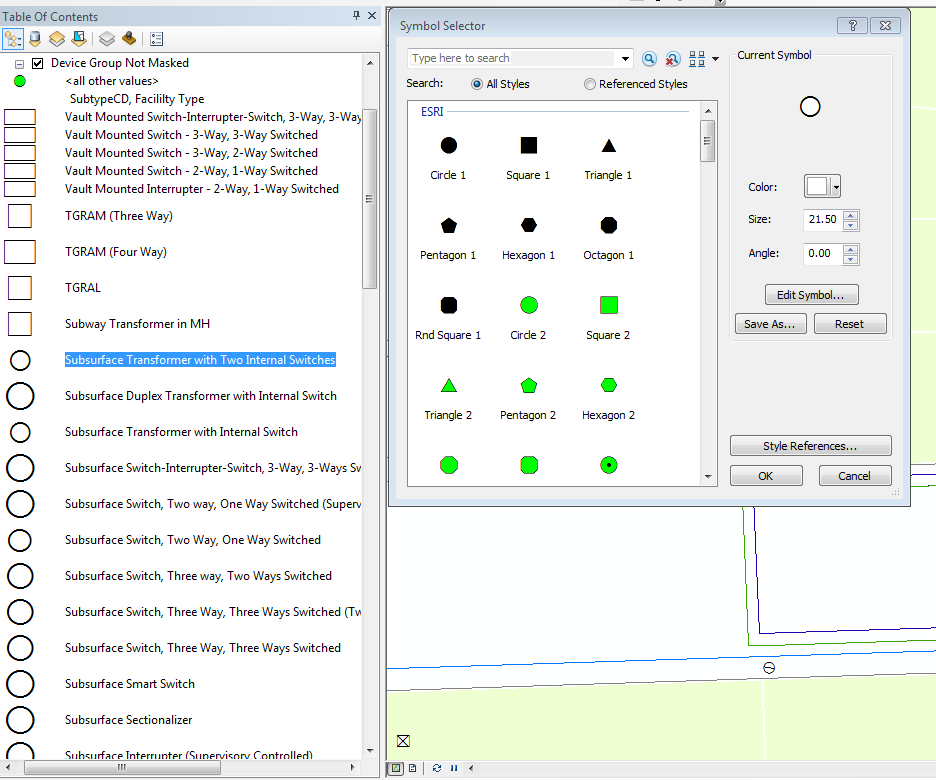
# CR13321 - Stored Display Changes

## Stored Display - "Device Group: Subsurface Duplex Transformer with Internal Switch" name change

1. Perform the below steps for all stored displays with Device Group Not Masked.
2. There are two "Device Group Not Masked" "Subsurface Transformer with Internal Switch".  The 'large' (30') circle should be named "Subsurface Duplex Transformer with Internal Switch".
3. 
4. Change the layer name to the following:  
   

## Stored Display - "Device Group: Subsurface Transformer with Two Internal Switches" size change

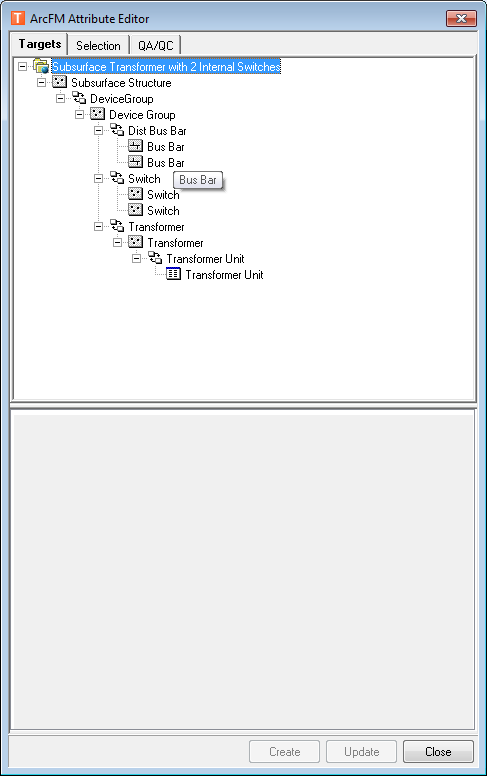
1. All Stored displays that contain "Device Group Not Masked" "Subsurface Transformer with Two Internal Switches", change size of symbol from 30' to 21.5.
2. In the stored display, expand Device Group Not Masked and double click the symbol to be changed (Subsurface Transformer with Two Internal Switches):



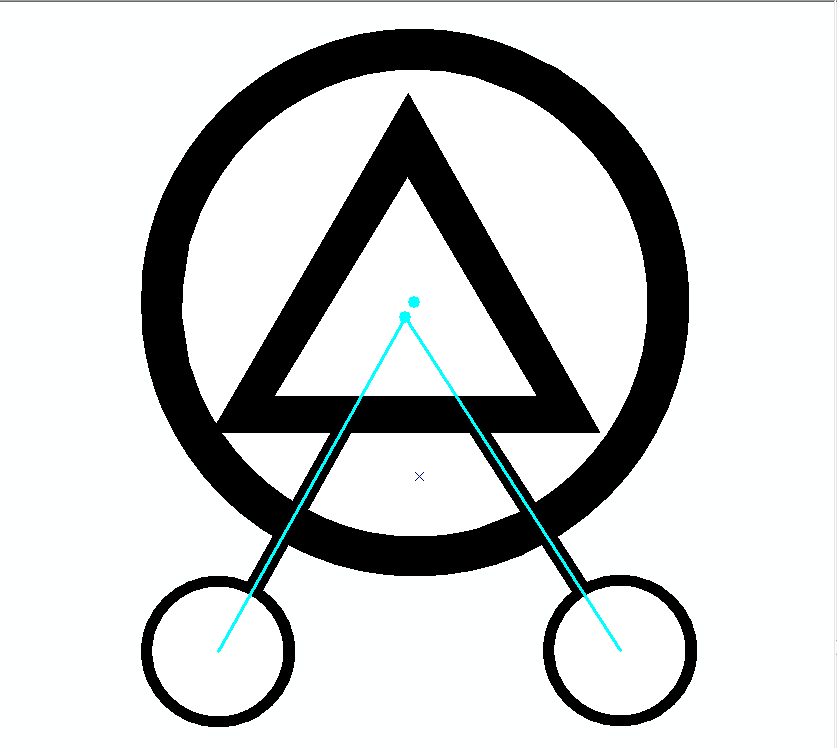
1. Change the size to 21.5.
2. Do a ‘save as’ on the stored display. Do not do a ‘Save’ as this will double the size of the stored display.

# CR13326 - Composite Favorite Correction

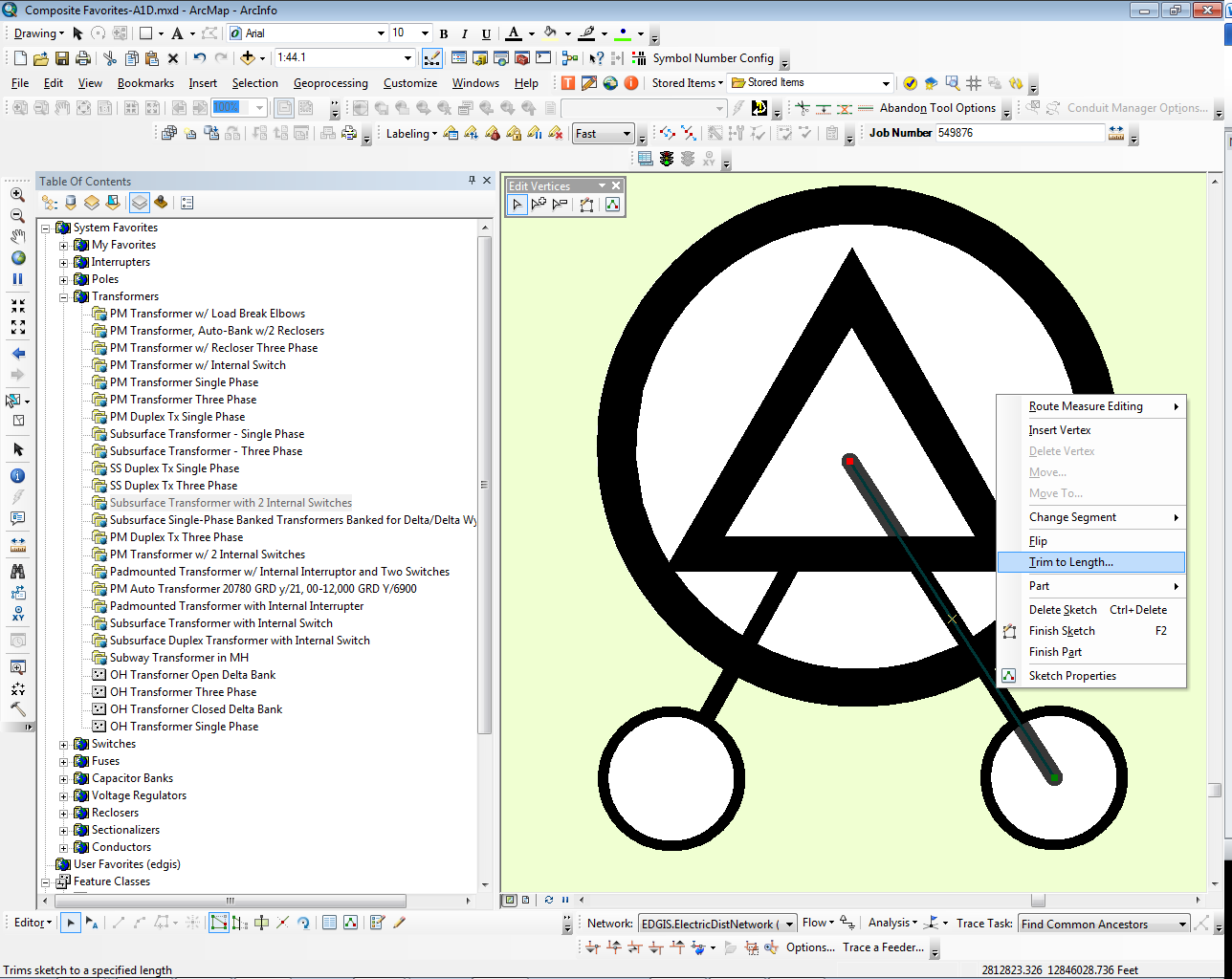
1. Place “Subsurface Transformer with Two Internal Switches” composite favorite



1. Select the auto placed annotation and delete, this is not needed for the exercise and will cause confusion
2. See the below image, notice the size of the DG “Subsurface Transformer with Two Internal Switches (5)” has already been changed to 21.5’ (from 30’). Also notice the transformer and bus bars are not snapped to the DG.



1. Select the busbars (one at a time) and trim to 12.2’ (the opposing busbar and transformer will “rubberband” with the shortening of the busbars, this is fine.





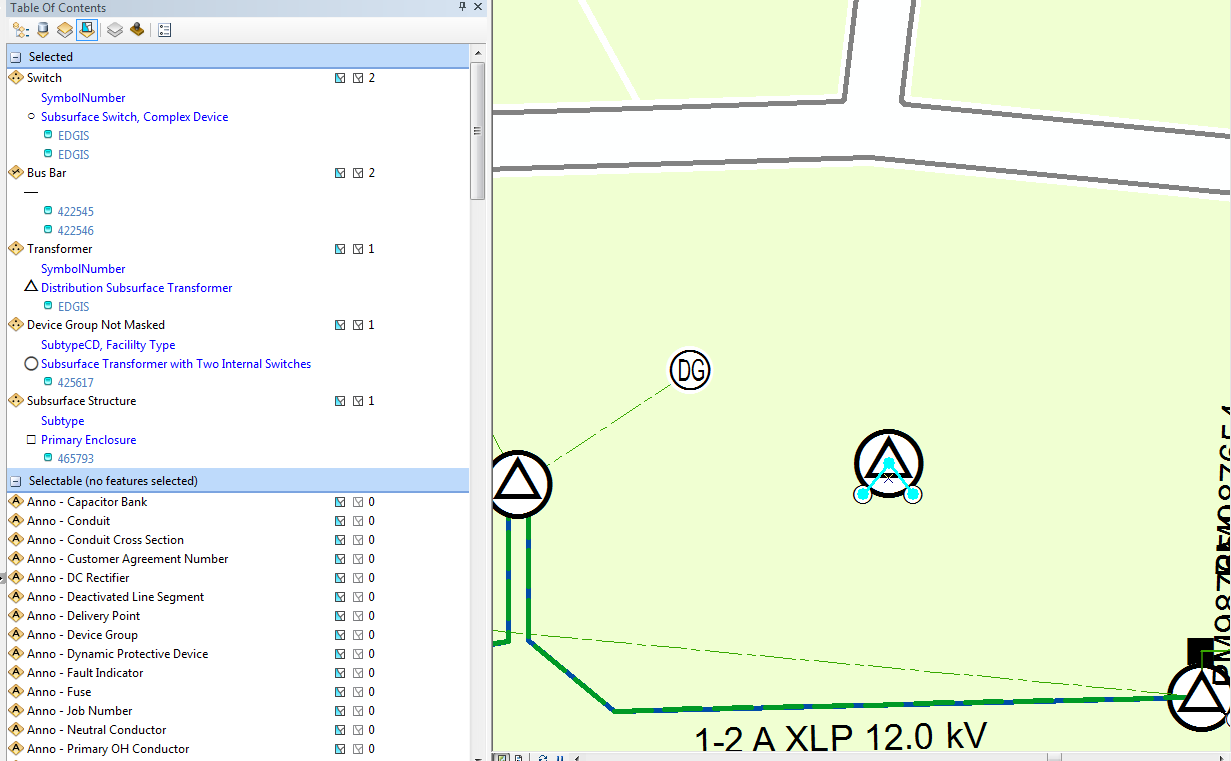
1. Select the DG and Subsurface structure



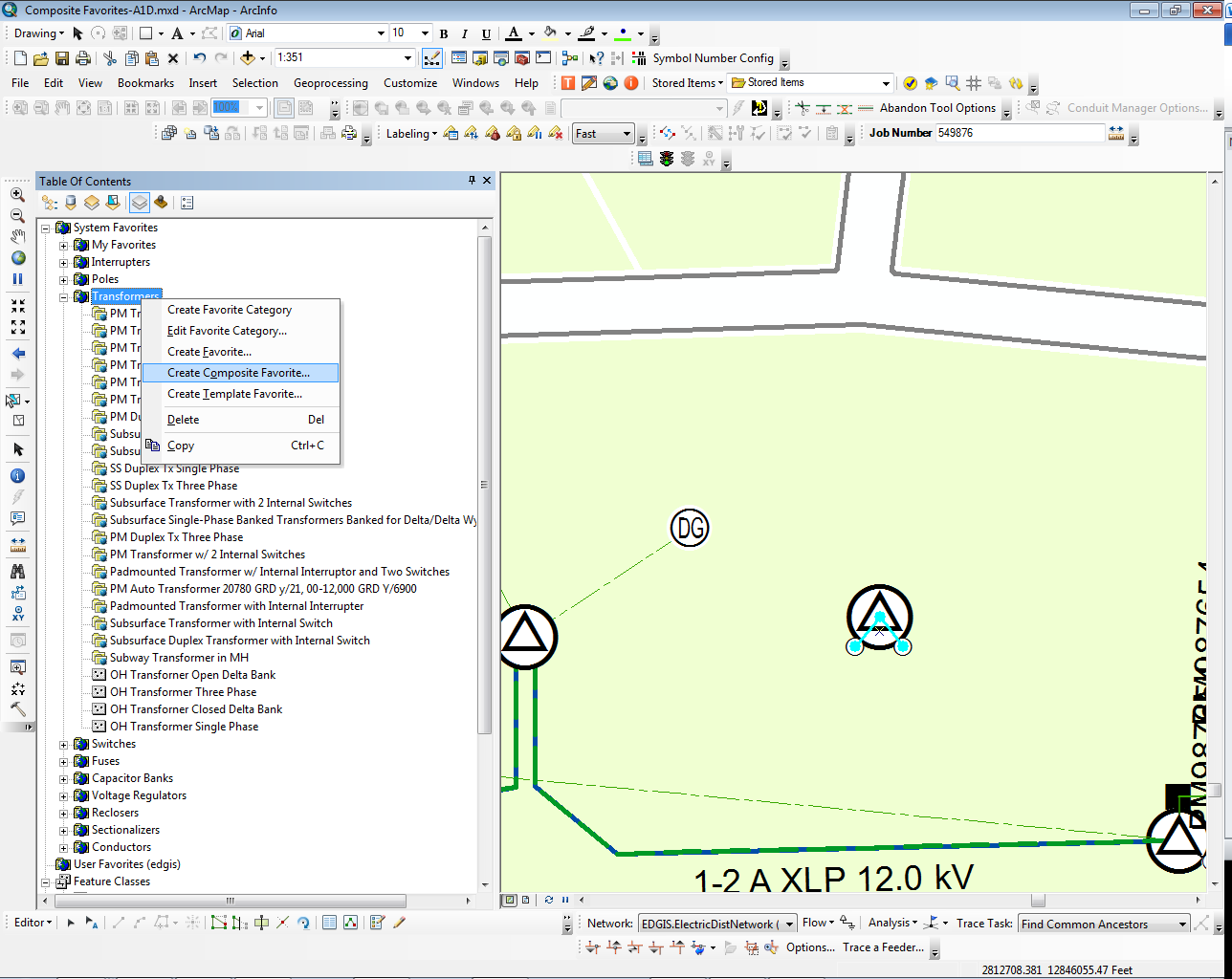
1. Move to snap to the transformer



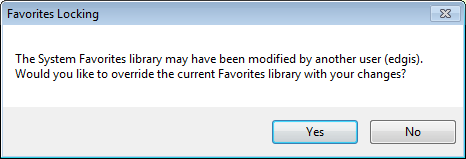
1. Select all features that were modified (make sure you only have 2 switches, 2 busbars, 1 transformer, 1 subsurface structure and 1 device group in your selection.



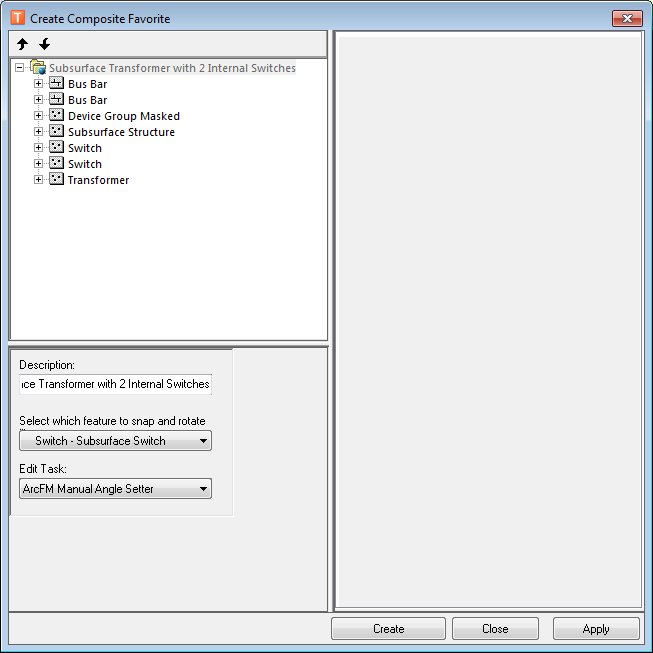
1. Right click on “System Favorites” and click “Create Composite Favorite”



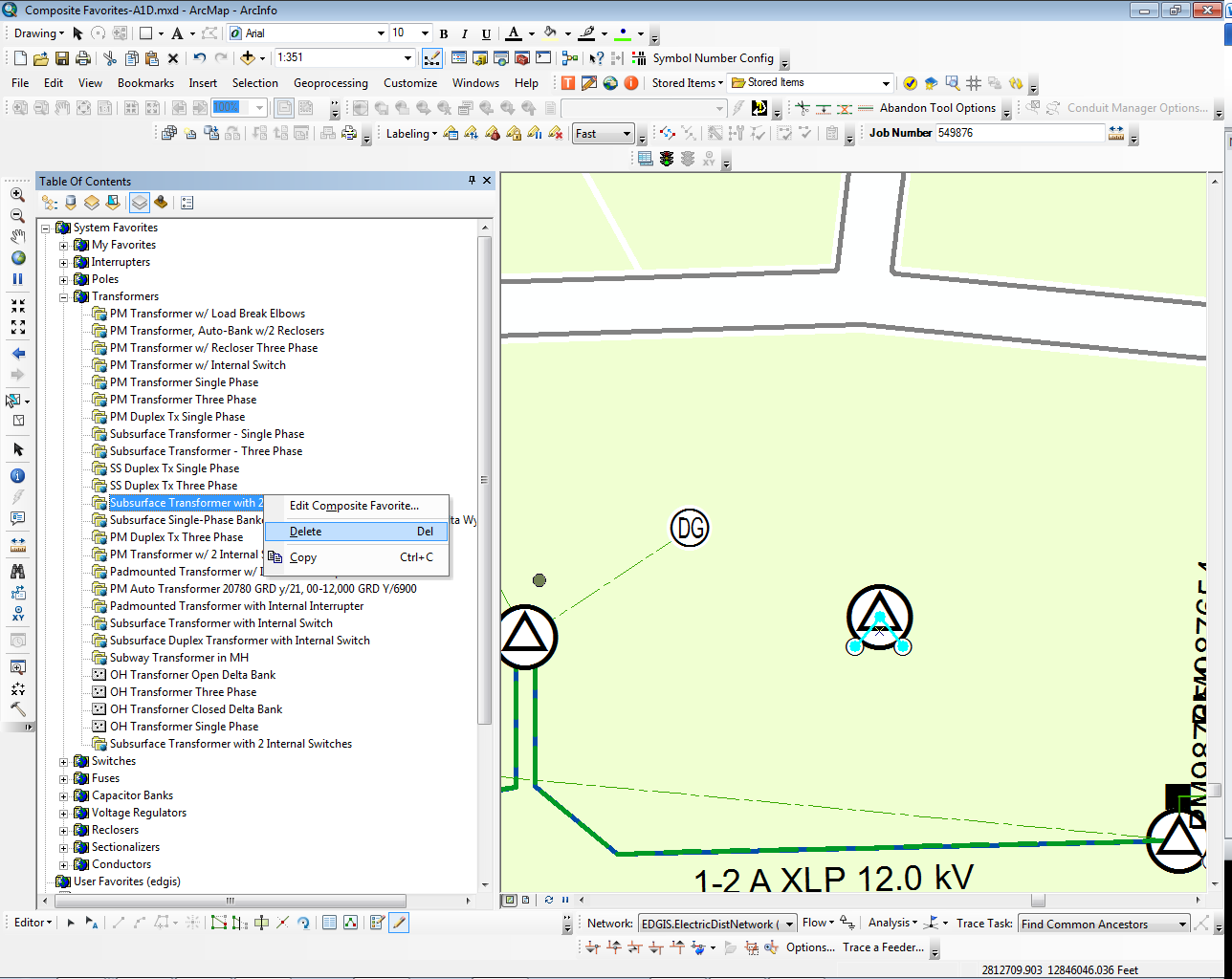
1. Click “Yes” on the Favorites Locking dialog (validate you are the only person working on favorites)



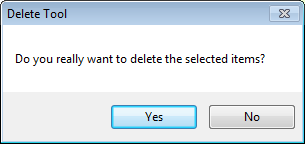
1. Validate in comparison to the below image and click “Create”



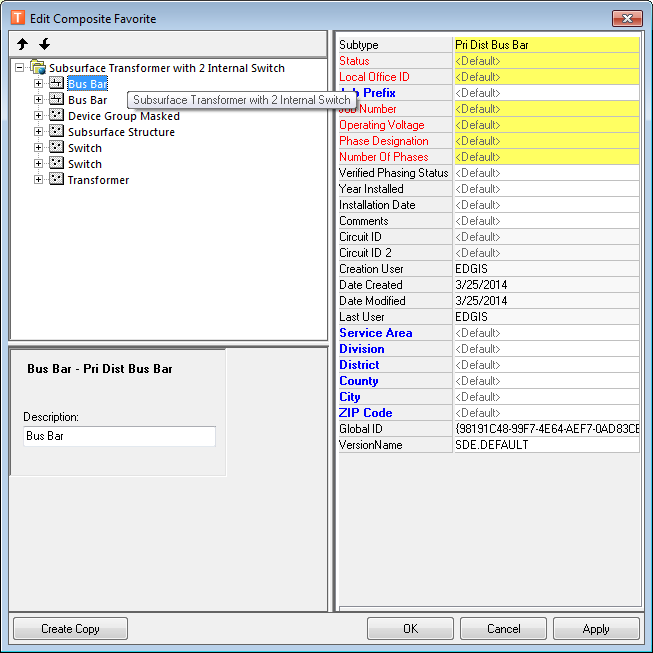
1. Delete the original Composite Favorite

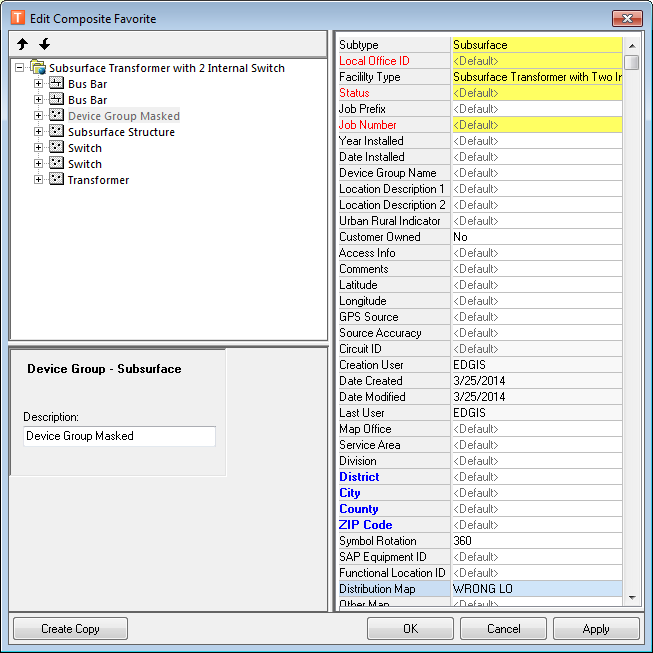


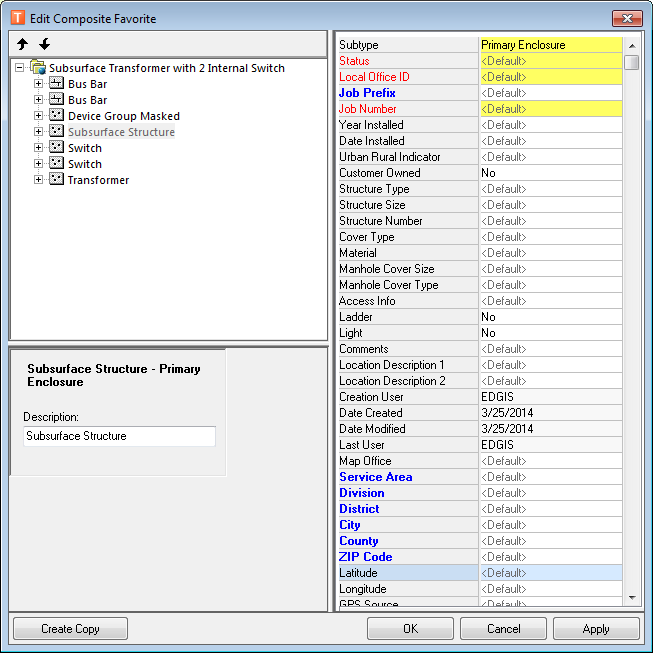
1. Confirm delete

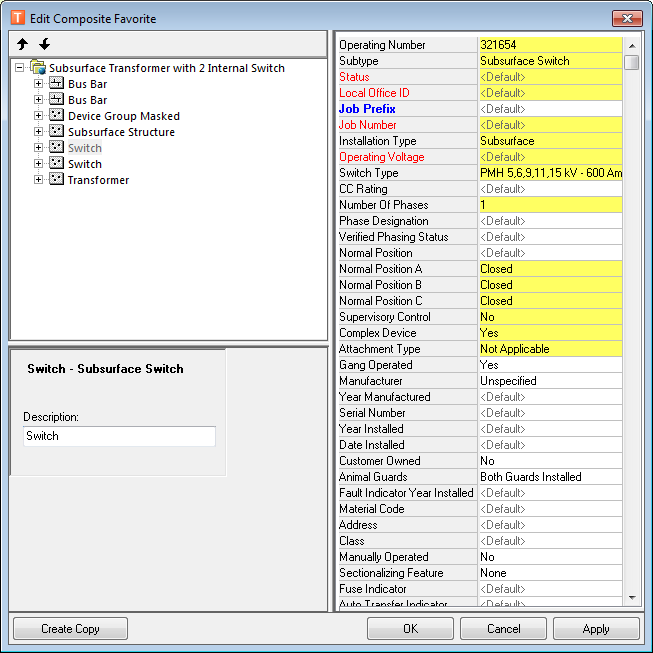


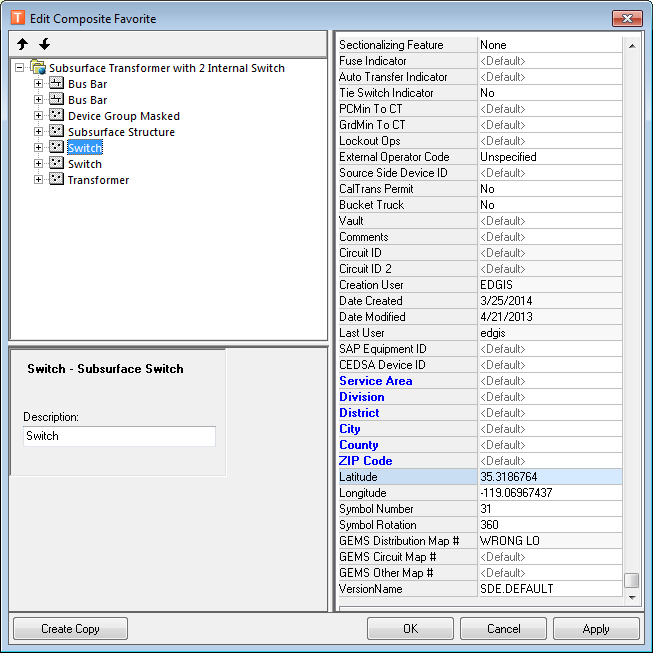
1. Remove all “required” attributes entered when placing the ‘old’ composite favorite

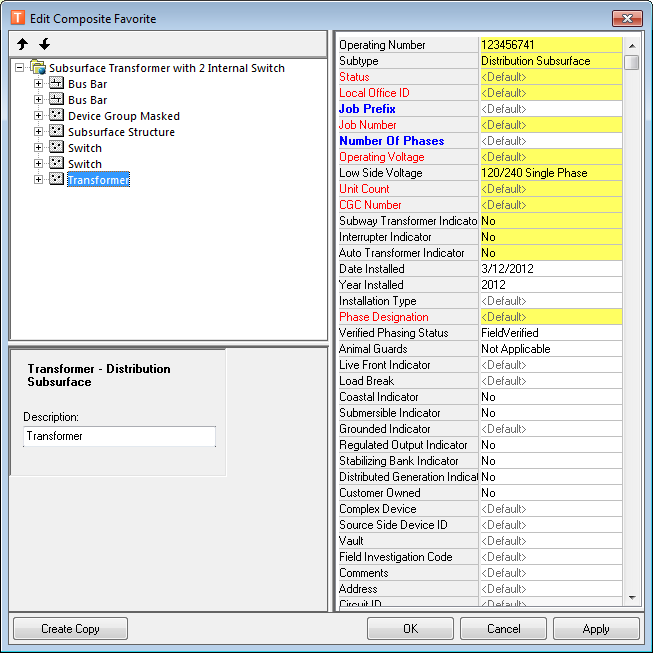


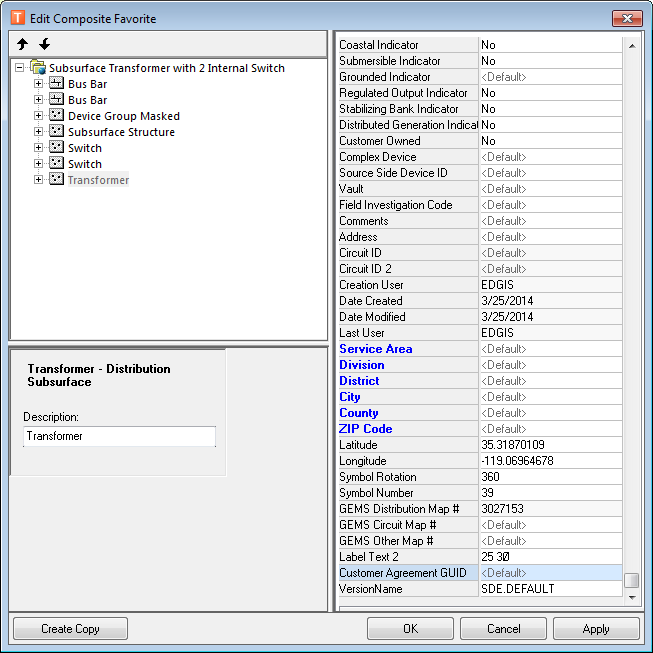






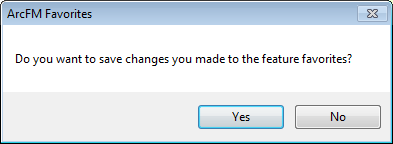




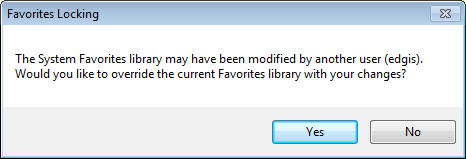


A few fields shown above are “auto populated” by AUs, do not worry about these as they will be overwritten when the user places a new favorite.

1. Close ArcMap
2. Click “Yes” on ArcFM Favorites dialog



1. Click “Yes” on the Favorites Locking dialog (validate you are the only one making udates)



1. Do NOT save edited features

# CR13701 - Increase PM Order Number Search Speed

1. Copy the pm\_order\_number.sql file locally. Refer to [Section 1.3](#_External_Documents) for file location.
2. Run the SQL as EDGIS on the db

# CR---------------🡪 UC4

1. Change Detection\PGEChangeDetection.exe –c EDER.config
2. Change Detection\PGEChangeDetection.exe –o Landbase.config
3. Change Detection\PGEChangeDetection.exe –c Landbase.config
4. Change Detection\PGEChangeDetection.exe –c WIP
5. Refer to [Section 1.3](#_External_Documents) for file location

# Apply Database Changes to Upgrade Datamodel

If there are any users logged into the system, please kick them out to execute this step.

1. Run the attached SQL script as EDGIS on the target database in a SQL prompt.
2. Update the below SQL code with your name in the place where it says: “<INSERT TEAM MEMBER DONE BY>”.
3. Replace the ‘CRxxx’ in the script below with the Change Request Number of the request that is currently being performed.
4. Save the following script as a .bat file and run the following SQL code as EDGIS in a SQL prompt to increment the data model version:

update pgedatamodelversion set currentidc='N' where currentidc='Y';

insert into pgedatamodelversion (OBJECTID, CURRENTIDC, DATEAPPLIED, APPLIEDBYPERSONNAME, MODELVERSION) values (<Insert Next Object ID>,'Y',sysdate,'<INSERT TEAM MEMBER DONE BY>','**7.7**');

commit;