CREATING & CUSTOMIZING SUBYPES & DOMAINS FOR YOUR GIS



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Great River Energy





What do you do for a living

- What do year
- I am a GIS
- Oh!
- What does
- I design, design,
- Oh!
- I make ma

• OH!



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CREATING & CUSTOMIZING Subtypes & DOMAINS FOR YOUR GIS

TODAYS DISCUSSION

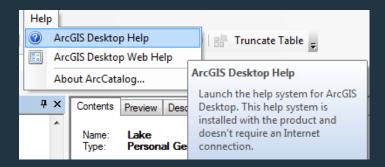
- HELP <F1>
- TERMINOLOGY
- Subtypes
 - BASICS OF SUBTPYES
 - PARTS OF A Subtype
 - CREATING AND MODIFYING
 - CATALOG, TOOLBOX, ARCMAP
- DOMAINS
 - BASICS OF DOMAINS
 - PARTS OF A DOMAIN
 - CREATING AND MODIFYING
 - CATALOG
 - TOOLBOX

- NON GIS PRODUCTS
 - » EXCEL, TEXT FILE
- ASSIGNING
- Demonstration: Creating and modifying Subtypes and Domains
 - Catalog
 - Toolbox
 - MS Excel and text
- BEST PRACTICES
 - THROUGHOUT THE PRESENTATION





- Extensive help files found for almost every tool and topic for ArcGIS products and services.
- From an ArcGIS product
 - Help drop down menu
 - Press the F1 key
 - From a dialog window
- Online
 - support.esri.com
 - geonet.esri.com ☺
 - Create a user account









TERMINOLOGY

- Feature Class A grouping of features that are of similar nature but may have multiple attributes.
 - Example: Primary OH is a Feature Class but has different phases and can have multiple Subtypes
- Feature A single point, line or polygon in a Feature Class
- Field A column of data in a feature class table.
- Attribute The specific information entered in the cell under a field that defines one things about a feature.
- Subtype A grouping of features in a feature class based on attributes in a single field.
- Domain Specifies pre-made entries for an attribute
 - A field that is Subtyped will override an assigned Domain



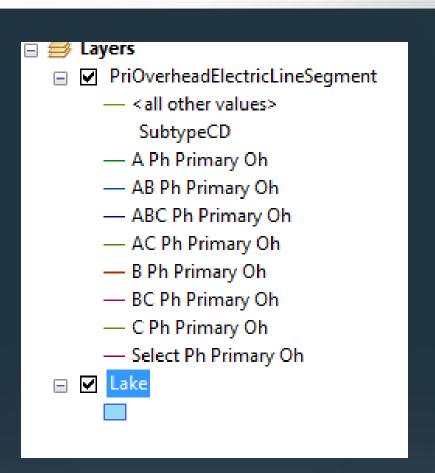
Subtypes - Basics

- A grouping in a feature class that specifics distinct classifications in a feature
 - Overhead Primary AØ, BØ, CØ etc
 - Reclosers Single Phase, Two Phase, Three Phase
- Best used when you have significant differences in features of the same type (like Primary Conductor)
- Grouped on a single field
 - Only on SHORT OR LONG INTEGER
- Each attribute can have it's own domain in each Subtype
- Allows for automatic symbol classification





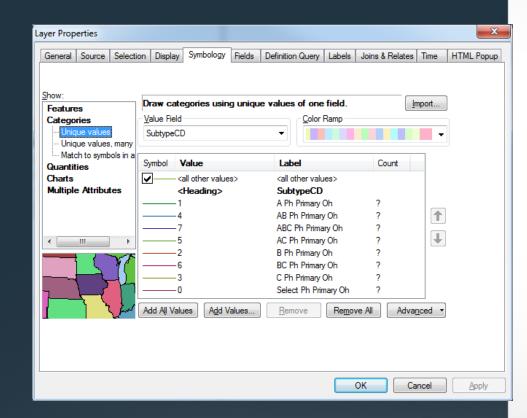
Subtyped Feature
 Class's are
 automatically
 separated in to
 different features







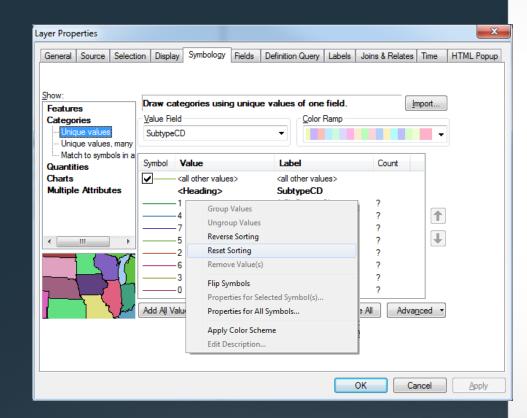
- Adds Symbols by Label
- Right Click Value and select Reset Sorting







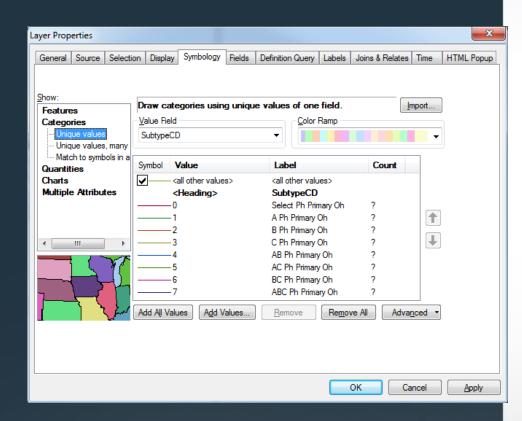
- Adds Symbols by Label
- Right Click Value and select Reset Sorting







 Can alternatively sort symbols based on Label as well

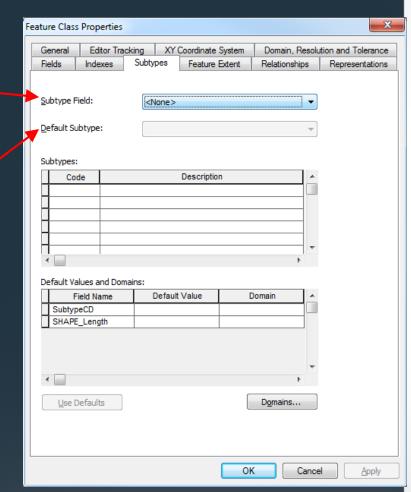






Subtypes - Parts

- Parts of a Subtype
 - Subtype Field
 - Specify which field your features will be Subtyped on
 - Must be integer
 - Default Subtype
 - You specify what the default Subtype is when you create a new feature
 - The default default is the first Subtype you create

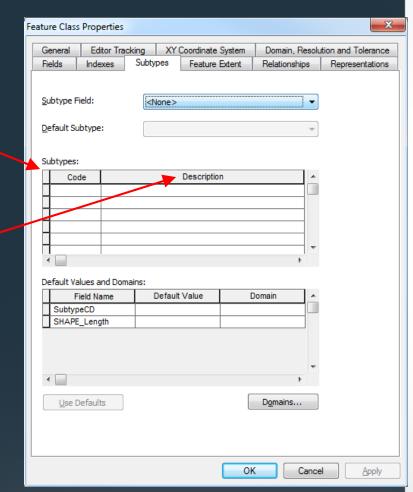






Subtypes - Parts

- Parts of a Subtype
 - Code
 - An integer that is associated with the Subtype
 - Description
 - A short description of the Subtyped Feature
 - Best Practice Keep it short

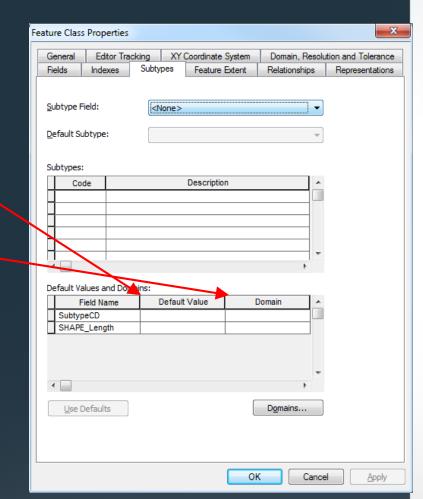






Subtypes - Parts

- Parts of a Subtype
 - Default Value
 - Default value for a specific Subtype
 - Domain
 - This is where can assign a specific Domain for a Subtyped Field







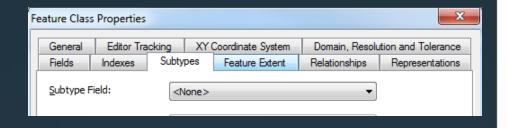
Subtypes - Creating & Modifying

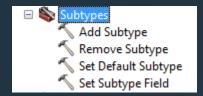
Where

- ArcCatalog
- ArcMAP
- ArcGIS Pro (not to be discussed in this session)

How

- ArcCatalog
- ArcToolbox tools









Subtypes – Best Practices

- Best practices
 - Only Subtype for small distinct groupings such as phase
 - Don't Subtype based on broad attributes such as wire type
 - If using NISC for modeling substation devices should have a sub bay designation
 - If you don't need to use a Subtype then don't
 - Lake, streams, sections, etc.





Subtypes – Best Practices

- Field typically called SubtypeCD or SubtypeCode
 - However, you may use any field that makes sense
- Keep the Descriptions short
 - Long descriptions may not be fully visible in the attributes window with out making the display wider
 - More critical for web mapping applications
- Too many Subtypes can get cumbersome.
 Consider breaking it into different feature classes

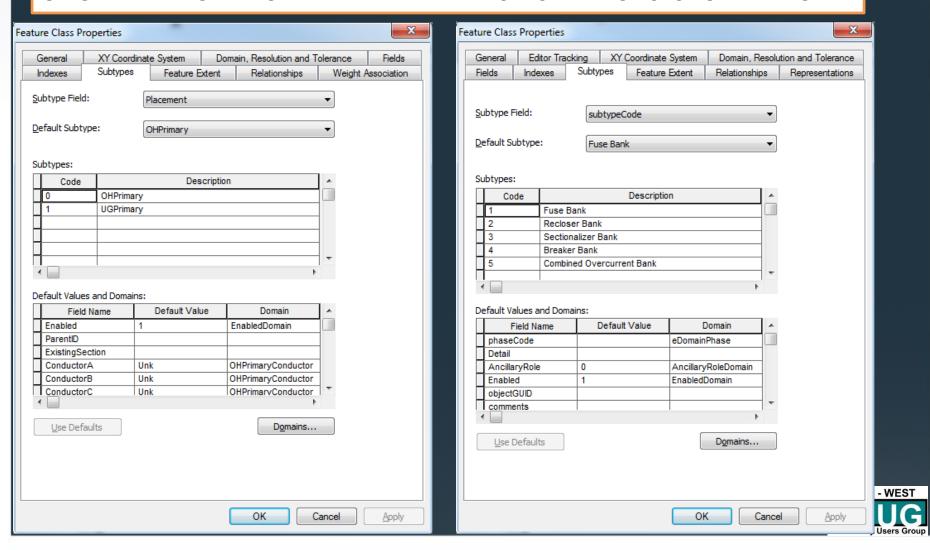




Subtype's that frustrate

ORIGIN DATA MODEL FOR PRIMARY

MULTISPEAK FOR SECTIONALIZING





Domains - Basics

- Specified values that define acceptable values for an attribute in a field.
 - Specific wire sizes
 - Specific fuse sizes
 - Specific pole attachments
- Field Type must match the field type.
 - Short Integer
 - Long Integer
 - Float
 - Double
 - Text
 - Date





Domains - Basics

- Assignment
 - One domain can be applied to any number of fields and any number of feature classes
- Domain Types
 - Coded Values
 - Specified Values
 - Can be used in all Field Types
 - Range
 - Allows entry of a value between a minimum and maximum value
 - Can be used on all field types except TEXT





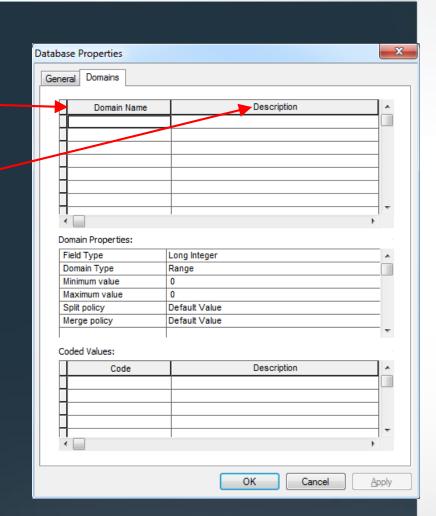
Domains - Basics

- Complexity
 - Can be as basic as a simple Yes or No
 - Can be as complicated as a complete list of pole attachments, fuse sizes, or wire types
 - A domain can be created to match any list of attributes
 - RUS Specs 398 entries
 - Maximum Length ???
- Updating a domain will update it in all Fields that use it in all Feature Classes





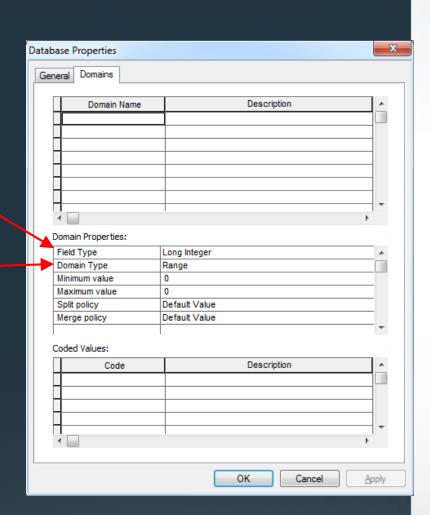
- Parts of a Subtype
 - Domain Name
 - Name of Domain
 - Description
 - Basic description of the domain
 - Not required







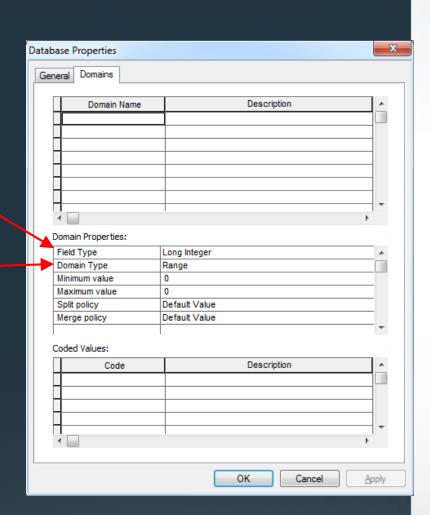
- Parts of a Subtype
 - Field Type
 - Must match the Field type you are going to associate the Domain to
 - Domain type
 - Coded Values
 - Range







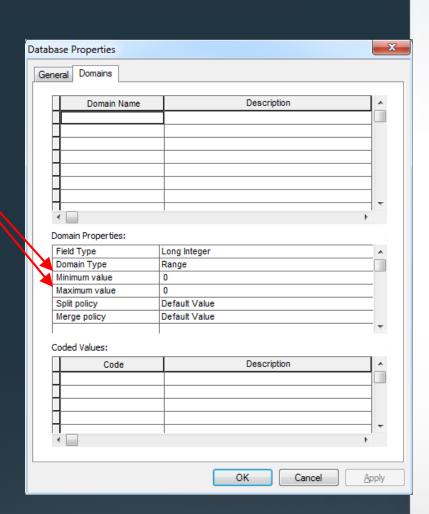
- Parts of a Subtype
 - Field Type
 - Must match the Field type you are going to associate the Domain to
 - Domain type
 - Coded Values
 - Range







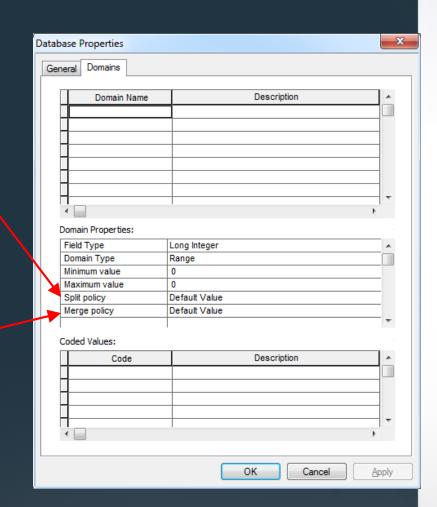
- Parts of a Subtype
 - Minimum/MaximumValues
 - Not with Text values
 - Range Domains only
 - Min and Max values







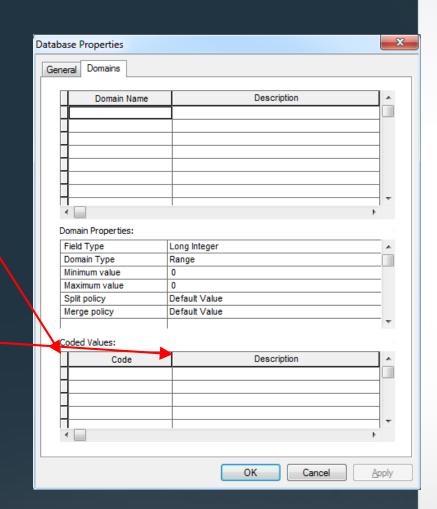
- Parts of a Subtype
 - Split Policy
 - Duplicate
 - Duplicates value when pasted or split
 - Default Value
 - Uses default value when pasted or split
 - Merge Policy
 - Can sum Integer values on Merge
 - Default only on Text







- Parts of a Subtype
 - Code
 - Short value used to define the attribute
 - Can be sorted Alpha Numerically
 - Description
 - Description of the specific attribute
 - This is what you will see

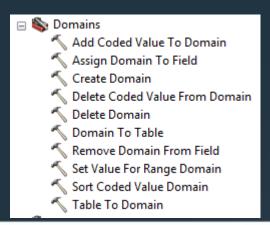


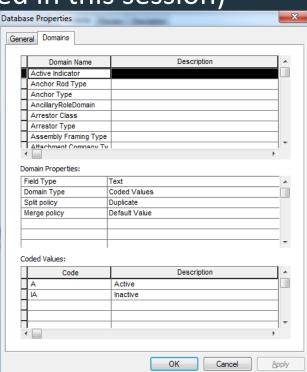




Domains – Creating and Modifying

- Where
 - ArcCatalog
 - ArcMAP
 - ArcGIS Pro (not to be discussed in this session)
- How
 - ArcCatalog
 - ArcToolbox tools







Domains – Best Practices

- Integer vs Text
 - Smaller database size
 - 38903 Conductor features
 - 8772 kB with Integer domain
 - 1296 kB larger with Text domain
 - Faster speeds
 - System can read integer values faster than text
 - When using Field Calculator you can simply enter the number if you know it.
 - Keep descriptions short for view purposes





Domains that frustrate

Database Properties	×	Database Properties	tor Table	X
General Domains		General Domains		
Domain Name Description	_	Domain Name	Description	A
AncillaryRoleDomain		eDomainSinglePhase	ĺ	
Detail		eDomainSoftStartType	eCo	
eDomainAssemblyAction		eDomainSourceSideC		
eDomainAssemblySpanT		eDomainSwitchStatus	S	
eDomainBooleanYesNo		eDomainSwitchType		
eDomainConnectionType		eDomainTransformer\	Win	
eDomainConnectionType		eDomainYesNo		
eDomainDeviceMounting		FnahledDomain	T	
•	F	*		•
Domain Properties:	· ·	Domain Properties:		
Field Type Long Integer	A	Field Type	Text	
Domain Type Coded Values		Domain Type	Coded Values	
Split policy Default Value		Split policy	Default Value	
Merge policy Default Value		Merge policy	Default Value	
	-			*
Coded Values:		Coded Values:		
			=	
Code Description		Code	Description	
1 Yes		Yes	Yes	
0 No		No	No	
 				
 				
				r
OK Cancel	<u>Apply</u>		OK Cancel	<u>Apply</u>





Before you begin – Plan it out

PLAN IT OUT

- Determine how many Subtypes you need
- Determine which fields you want to use
- Determine which fields will use a domain
- Determine the Attributes you want to use in each
 Domain
- Write out your Domains?
- Create Domains first
 - Automatically assigned when creating Subtypes





- Primary Overhead Conductor
 - Subtypes
 - O Select Phase
 - 1 A Phase
 - 2 B Phase
 - 3 C Phase
 - 4 AB Phase
 - 5 AC Phase
 - 6 BC Phase
 - 7 ABC Phase





- Primary Overhead Conductor
 - Domain
 - Phase Coded Values, short integer
 Code Description
 - 1 A Ø
 - 2 B Ø
 - 3 C Phase Primary Overhead Conductor





- Primary Overhead Conductor
 - Domain
 - WireType OH Coded Values, Text

```
Code Description
#1 ACSR #1 ACSR
#2 ACSR #2 ACSR
#4 ACSR #4 ACSR
Etc...
```





- Misc Features
 - Domain
 - RUSSpecs Coded Values, Text
 - RUS Units
 - 386 Unique Values





Very long Domains possible

M5-15 Miscellaneous

M5-17 Single Wooder

M5-16 10 foot Crossarm

Primary Assembly

A1 Single Primary Support • A1-1 Double Primary A1-1AP 0*to 5* Angle, A1-1P 0* to 5* Angle. • A1A Single Primary Support • A1AP Single Primary A1P Single Primary Support A2 Double Primary Support Single Phase Junction Construction Single-Phase A2P Double Primary 60° Angle A5 Deadend (Single) A5-2 Primary, Single Phase A5-2A Primary, Single . A5-3 Primary, Single Phase . A5-4 Primary, Single Phase . A6 Vertical Deadend A7 Crossarm Construction Deadend (Single) A8 Crossarm Construction • Deadend (Double) A9 Crossarm Construction Double Line Arm A9-1 Crossarm Construction Single Line Construction Single Line A9P Crossarm Construction Double Support B1 Crossarm Construction B1-1 Crossarm Construction Double Primary Support B1-1A Crossarm Primary Support B1-1P Crossarm Construction Double B1A Crossarm Construction Single Primary Support B1P Crossarm Construction R22 Crossarm Construction • B2P Crossarm Construction • Double Primary Support

B3 Vertical Construction

B4-1 Vertical Construction

B4-1A Vertical Construction B5-1 Vertical Construction Deadend (Single) Deadend (Single) B7 Vertical Construction Deadend (Single) B7-1 Vertical Construction **B8 Vertical Construction** B9 Crossarm Construction Double Line Arm Construction Single Line B9-1P Crossarm Construction Double Line B9-2P Crossarm Construction Double Line B9-3 Crossarm Construction Single Line B9-3P Crossarm Construction Single Line B9P Crossarm Construction Double Line Arm Single Primary Support Primary Support C1-1A Crossarm Primary Support C1-1P Crossarm C1-2 Crossarm Construction (Large Conductors! C1-4 Crossarm Construction (Large Conductors) Top Support Single Primary Support C1AP Crossarm Construction Single Primary . Single Primary Support C1PL Crossarm Construction Single Primary C2 Crossarm Construction C2-1 Crossarm Construction Double Construction Dou Primary Support Single-Phase Junction C24 Crossarm Construction * Two-Phase Junction C3 Vertical Construction C3-1 Vertical Construction C4-1 Vertical Construction C5-1 Vertical Construction C7 Crossarm Construction Deadend (Single)

Construction Deadend C7-2 Crossarm (Single) C7A Crossarm Construction • Deadend (Single) C8 Crossarm Construction C8-1 Crossarm Construction Single Line C9-1P Crossarm C9-2 Crossarm Construction Double Line C9-2PL Crossarm DC-C25 Crossarm Construction Double Circuit E11 Single Loop Guy, E1-1 Single Down Guy, E12 Single Loop Guy, E1-2 Single Down Guy. E2-3 Single Overhead Guy, Through-Bolt Type E3-10 Single Down Guy, E3-2 Single Down Guy. E3-3 Single Down Guy, E4-2 Single Overhead Guy, E4-3 Single Overhead Guy, E5-2 Crossarm Construction Deadend Guy E6-3X Double Down Guy - • E7-3 Three Down Guys E8-2 Four Down Guy E8-3 Four Down Guys E9-3 Guy for Narrow

F1-1C Line Anchor F1-1P Line Anchor F1-1S Line Anchor F1-2 Line Anchor Assembly . F1-2C Line Anchor F1-2P Line Anchor F1-4P Line Anchor F1-4S Line Ancho F2-1 Log Anchor Assembly F2-3 Log Anchor Assembly F2-4 Log Anchor Assembly F4-1 Service Anchor F4-2 Log Anchor Assembly F4-3 Log Anchor Asse F5-1 Rock Anchor F5-2 Rock Anchor F5-3 Rock Anchor F6-1 Swamp Anchor F6-2 Swamp Anchor F6-3 Swamp Anchor G105 Single Phase Transformer at 1-Phase G106 Single Phase G136 Single Phase Transformer on Three-Phase Circuit Transformer on Three Phase Circuit G65 Single Phase Transformer at 1-Phase G66 Single Phase Transformer at Deadend G67 Single Phase Transformer on Three-Phase Circuit G9 Single Phase Transformer at 1-Phase J10 Secondary Assembly J12 Secondary Assembly J5 Secondary Assembly . J6Alum Secondary Assembly J6Copper Secondary

J7 Secondary Assembly

J8 Secondary Assembl

K10 Service Assemblies

K10C Service Assembly.

(Large Conductors) K11L Service Assembly K14 Service Assembly K14C Service Assembly K14L Service Assembly (Large Conductors) K15C Service Assembly. K16C Service Assembly (For K17 Service Assembly (For K17L Service Assembly (For M2-12 Pole Protection Assembly - Plate Type Assembly Wrap-Around • M2-12A2 Pole Protection • Assembly - Plate Type M2-2A Pole Protection Assembly Wrap-Around • M2-2A2 Pole Protection Assembly Plate Type • (Unmetered) M2-7 Galvanic Anode Reclosers M3-12A 2 or 3 Sectionalizing Oil Circuit Reclosers M3-3A 2 or 3 Sectionalizing M3-3B Line Tension M3-4 One Sectionalizing M3-41 One Sectionalizing M5-12 Metal Crossarm Brace Assembly M5-13 Wooden Crossarm •

Crossarm Brace M5-18 Pole Top Post Insulator M5-19 Neutral Standoff M5-2 Miscellaneous M5-20 Suspension Insultor .
Bells M5-21 Primary Suspension Insulator Bolt M5-24 Miscellaneous M5-25 Miscellaneous M5-26 Miscellaneous M5-3 Miscellaneous Primary Assembly M5-4 Miscellaneous M5-5 Miscellaneou M5-6 Miscellaneou M5-8 Miscella Primary Assembly M8 MTR SKT M8-15 Primary Metering Guide Three-Phase 4-Wire M9-11 Single-Phase UA1 Single Phase Cable Deadend Terminal Pole UA2 Single Phase Cable UB1 VEE-PHASE CABLE UC3 Three Phase Cable UC4 Three Phase Cable UG17 Three Phase Pad UG17-2 Three Phase Pad (Loop Feed) UG17-2B Three Phase Pad . (Radial Feed) Feeding Single Phase Transformer

UG6 Single Phase Pad (Radial Feed) UG6-1B Single Phase Pad-Mounted Transformer (Radial Feed) UG6B Single Phase Pad-Mounted Transformer (Radial Feed) UG7 Single Phase Pag UG7B Single Phase Pad-Mounted Transformer (Loop Feed) UJ1-2 Secondary Connector Blocks Connector Blocks UJ1-4 Secondary Connector Block UJ1-6 Secondar UJ1-8 Secondar Connector Blocks Connector Blocks Connector Blocks Connector Blocks UK5 Secondary Pedestal UK6 Secondary Handhole • Underground Cable LIM12 Cable Route Marker • LIM1-SC Pad Assemblies UM1-5NC Pad Assemblies Transformer Concrete Pads * UM1-7C Ground Sleeve UM27-1 Sacrifical Anode UM27-2 Sacrificial Anode for Equipment Ground UM27-3 Sacrificial Anode for Cable Ground UM3-14 Single Phase Pad or Sleeve Mounted UM33 MVI Multiphase UM3-44 Single Phase Pad • Reclose UM3-45 Single Phase Pad . UM3-46 Three Single Phase Pad Mounted Reclosers UM3E-2 Single Pole Switching 200 Amp Fuse Enclosure

(200 - 600 Amp) Three • UM48-1 Grounding •
Assembly for Pad Mounted
Single Phase Transformers • and Enclosures UM48-2 Grounding Assembly for Pad Mounted Multi Phase Transformers Primary Cable UM5 Secondary Cable Protective Cap (200 A) Protective Cap (600 A) UM6-12 Uhx Cable Marker UM6-13 Uhb Load Break UM6-14 Uhb Deadbreal • UM6-17 Uhb Insulating Plug 600 Amp Connecto U-Guard Riser Shield Insulator Feed Through (200 A) UM6-2 Uhp Fused Elbow Termination (200 A) UM6-21 Uhq Three Point * UM6-22 Uhq Four Point Junction (200 A) UM6-24 Ugk Outdoor UM6-26 Ugk Indoor Stress . UM6-28 Uhy In Line UM6-3 Uhb Dead Breal UM6-32 Ugq Boot or UM6-33 Uae Surge UM6-34 Uae Dead Break Elbow Surge Arrester UM6-35 Uax Cutout UM6-36 af Load Break UM6-37 Uae Parking Stand • UM6-39 Uhf Jacketed UM6-7 Uhb Bushing Well Plug (200 A) UM8 Meter Installation Underground Source

UM8-2 Meter Pedestal UM8-3 Trough Type Meter UM8-3A Trough Type UM8-4 Meter and Switch Source UM8-4A Meter and Switch • Installation Underfround UM8-5 Pad Mounted Underground Source UM8-6 C.T. Meter Installation Single Phase UM9-2 Pad Mounted Switched Capacitor UR2 Trenching Unit, One Cable or Cable Assembly Power and Telephone Cable Service or Secondary and UR2-4 Trenching Unit, Primary and Secondary or Primary, Secondary and Telephone UR2-NT Trenches for Direct UR2-ST Trenches for Direct * VA1-1A Single-Phase -Double Primary Support Double Primary and Neutral VA5 Single-Phase - Vertical VAS-1 Single Phase Tap VA5-2 Single Phase Tap VAS-4 Single Phase Tap VA6 Single-Phase - Vertical VB1 Two-Phase - 0* to 5* angle, Double Primary Support VB1-1A Two-Phase - 0° to angle, Single Primary VB2 Two-Phase - Double VB9 Two-Phase - Crossarm Crossarm Construction Single Line Arm VB9-2 Two-Phase Crossarm Construction Single Line Arm

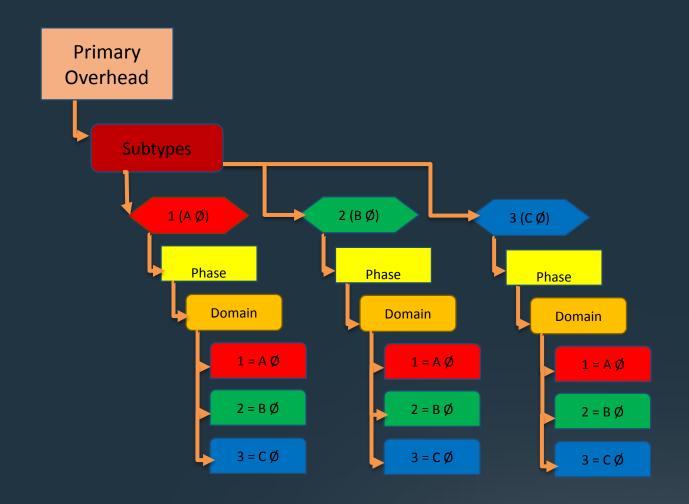
Construction--60° to 90' VG106 Self Protected VG136 Self Protected VG150 One VG65 Single Phase Transformer at One-Phase VG66 Transformer with Double Gap and Internal Double Gap and Internal VM10-14 Single Phase Arcing Horn Assembly VM2-11 Grounding VM2-11A Grounding Assembly--Ground Rod VM2-12 Pole Protection VM3-10A One **Break Switch** VM3-19 Two or Three VM3-19A Two or Three Reclosers VM3-1A One Sectionalizing VM3-2 Two or Three VM3-20 Two or Three Reclosers VM3-20A Two or Three Switches VM3-4 One Sectionalizing Fuse Cutout VM5-1 Miscellaneous Primary Assembly VM5-2 Miscellaneous VM5-3 Miscellaneous VM5-4 Miscellaneou Primary Assembly Primary Assembly VM5-8 Miscellaneous VM7-1 One Voltage

VDC-C4-1 Vertical

MID - WEST



Flow chart of a feature







Demonstration

- Feature Class Primary Overhead Conductor
- Create a PHASE Domain
 - Create in ArcCatalog
- Create Subtypes
 - Create in ArcCatalog
- Import a WireType Domain
 - Import from existing feature
 - Assign using ArcToolbox Tools





Demonstration

- Feature Class MiscFeatures
- Create RUS Units Domain
 - Create using a document and ArcToolbox tools
 - Documents
 - MS Access
 - Excell
 - Text
 - » Tab
 - » Csv
 - Assign in ArcMap





Questions

Any Questions so far?





Demonstration

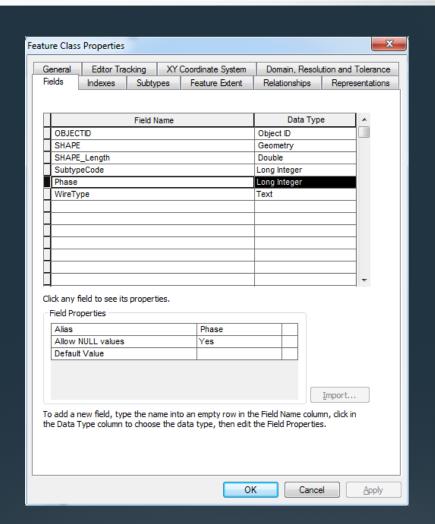
- Switching to demonstration mode.
- In case of epic demonstration failure the following slides are the demonstration





Create first Domain

- Open Feature Class Properties in ArcCatalog
- There is no field for domain in the phase
- Observe that Phase is Long Integer

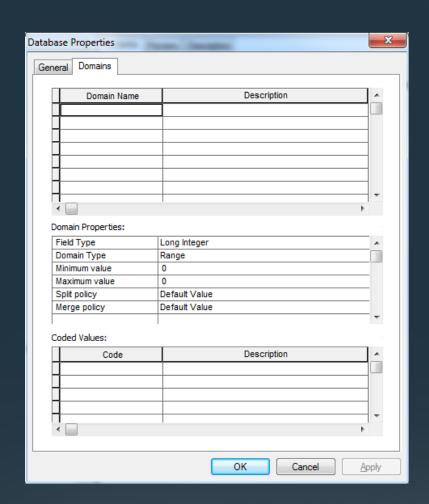






Create first Domain

- Open Database
 Properties
- Click on Domains Tab
- Enter Domain Name
- Enter Description
 - Optional
- Change Domain Type to Coded Value
- Enter Coded Values

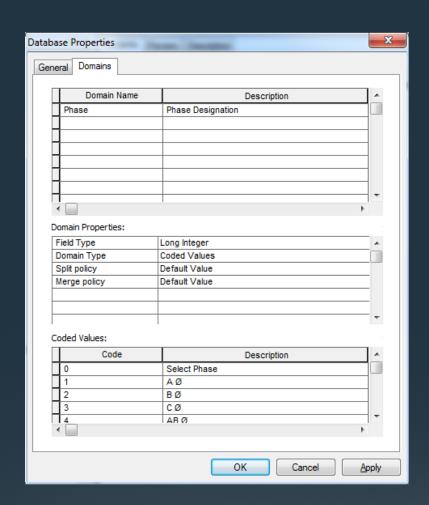






Create first Domain

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- Click on Domains Tab
- Enter Domain Name
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- Change Domain Type to Coded Value
- Enter Coded Values

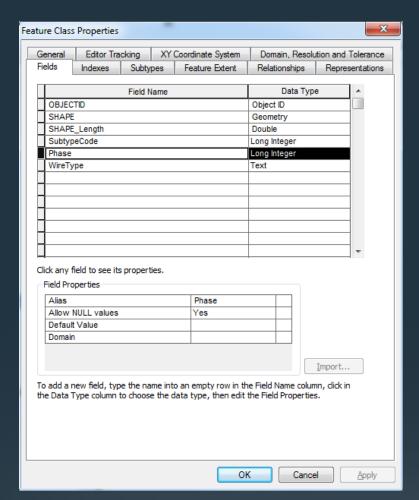






Assign Domain

- Open Feature Properties
- Click on Fields Tab
- Click on the Field you wish to Domain
- Select Domain from drop down menu
- Default value
 - Best practice to leave default as nothing

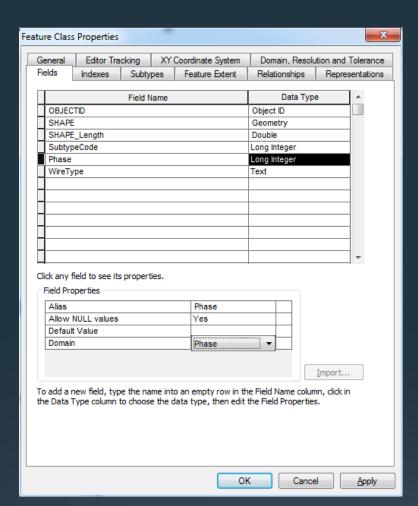






Assign Domain

- Open Feature Properties
- Click on Fields Tab
- Click on the Field you wish to Domain
- Select Domain from drop down menu
- Default value
 - Best practice to leave default as nothing







- Close the Feature
 Class Properties
 Window
- Open the Feature Class Properties Window
- Click Suptypes tab
- Phase Domain assigned

ture Class	Properties					
General	Editor Tra	ckina	XY Coordina	ate System	Domain, Reso	ution and Tolerance
Fields	Indexes	Subty		re Extent	Relationships	Representations
<u>S</u> ubtype Fi		<n< td=""><td>lone></td><td></td><td>▼</td><td></td></n<>	lone>		▼	
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Use D	efaults				Domains]
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Use D	efaults				,	
√ <u>U</u> se D	efaults			ОК	Domains	Apply





- From Subtype Field drop down select you Field you want to Subtype from
- First Subtype is automatically created

	I = - =					
General	Editor Tra		XY Coordina			lution and Toleranc
Fields	Indexes	Subty	pes Featu	ire Extent	Relationships	Representation
Subtype Fi	ield:	</td <td>lone></td> <td></td> <td>_</td> <td>]</td>	lone>		_]
<u>D</u> efault Su	ibtype:				-	
Subtypes:						
Cod	de		Descri	otion		
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1						
4					F	
∢ 🔙 Default Va	alues and Dom	nains:			Þ	
F	ield Name		Default Value] [Domain	
SHAPE	ield Name _Length	I	Default Value	[
SHAPE Subtyp	ield Name _Length		Default Value			
SHAPE Subtyp Phase	ield Name Length eCode	I	Default Value	Phase		
SHAPE Subtyp	ield Name Length eCode	I	Default Value			
SHAPE Subtyp Phase	ield Name Length eCode	I	Default Value		Domain	
SHAPE Subtyp Phase	ield Name Length eCode	I	Default Value			
SHAPE Subtyp Phase WireTy	ield Name Length eCode	I	Default Value		Domain	
SHAPE Subtyp Phase WireTy	ield NameLength ieCode	I	Default Value		Domain	
SHAPE Subtyp Phase WireTy	ield NameLength ieCode	I	Default Value		Domain	





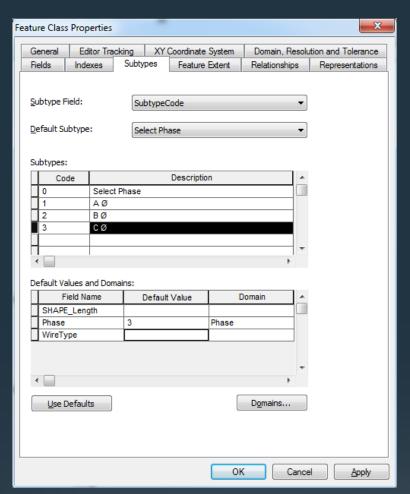
- From Subtype Field drop down select you Field you want to Subtype from
- First Subtype is automatically created
- Assign Domain
- You can change the description

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- Create the rest of your Subtypes
- Domain is automatically filled out for new Subtypes
- Set Default Value

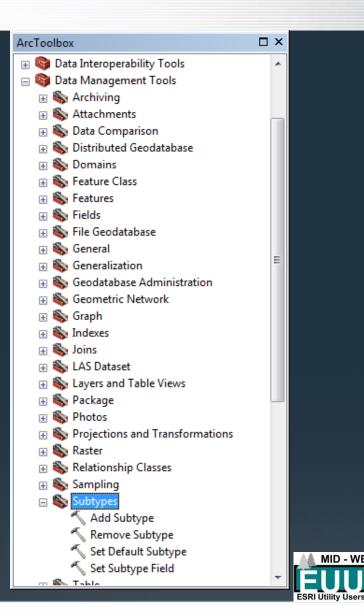






Create Additional Subtypes

- Open Feature Class
 Properties and simply add them in using the same methods
- ArcToolbox Tools
 - Good forModelBuilder
- Best practice: Do it direct in ArcCatalog
- May not resort





Create WireType Domain

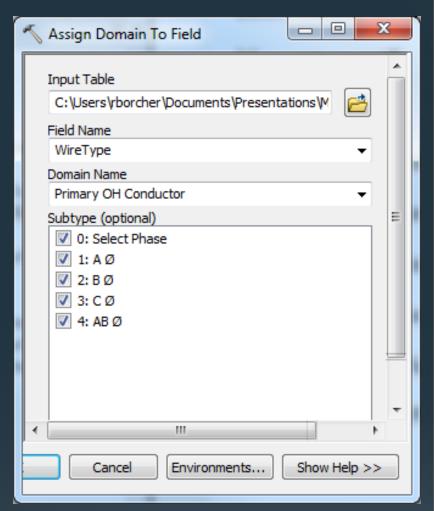
- Rather than manually entering a Domain you can import a feature that already uses it to port the Domain directly to your database simply by copying the feature class or importing it.
- Beware of duplicate Domains





Assign New Domain

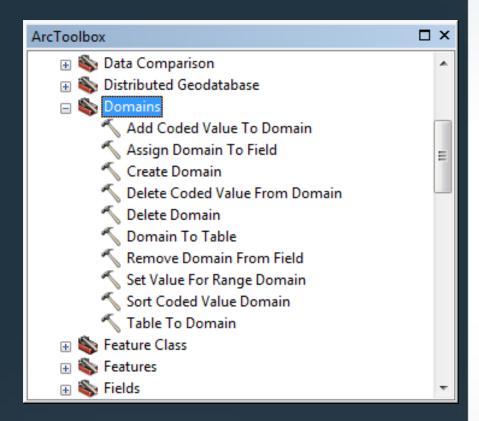
- You can assign new Domains in ArcCatalog or ArcToolBox
- ArcCatlog you need to update all requisite fields one at a time
- Using Assign Domain
 To Field in ArcToolbox
 can assign it to each
 subtype







Create RUS Specs Domain







Create RUS Specs Domain

- Input table is the text file
- Select Code
- Select Description
- Input Workspace is your datebase
- Enter Domain Name
- Update as Append
- Assign it to the fields

