

A tool to...

Streamlining your editing experience In ArcMap

- Increased productivity
- Reduces button clicks
- Ensures data entry
- Simplifies complex operations
- Standardize editing procedures

Attribute Assistant

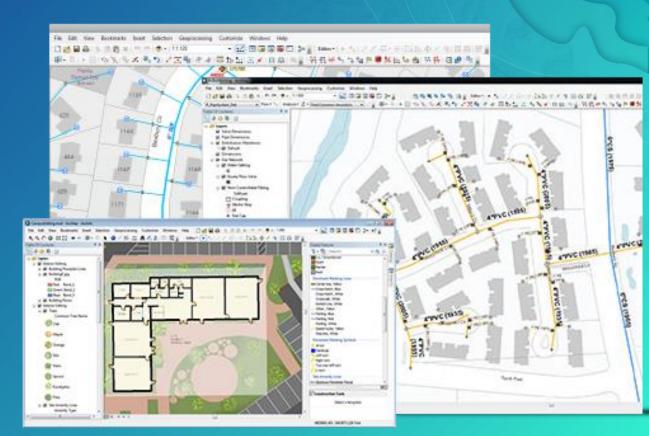
ArcMap Add-in

- Editor Extension
- Configured through a GDB table
- 71 methods that can be triggered when
 - Feature created
 - Geometry modified
 - Attribute updated
 - Manually

Available as part of ArcGIS Solutions

Preconfigured for your industry workflows

- Available by itself
 - http://solutions.arcgis.com/shared/help/attribute-assistant/
- Included with
 - Water Utility Network Editing
 - Gas As-Built Editing
 - Nighttime Flow Analysis
 - Pre-incident Planning
 - Campus Editing
 - Road Network Management
 - Street Furniture Inventory
 - Street Tree Inventory
 - Streetlight Inventory





The Components

Four key pieces

To configured the add in

- Attribute Assistant Toolbar
- Dynamic Value Table
- Generate ID Table
- Configuration file



OBJECTID* Table Name								4 /	\auu key		value-	
129 BuildingInteriorSpace BASEELEV INTERSECTING_FEATURE BuildingFloor(BASEELEV True True False KNulb KNulb False		OBJECTID *	Table Name	Field Name	Value Method	Value Info	Create	Change	On Manual	Comments	Rule Wei	On Chang
90 FacilitySite		128	BuildingInteriorSpace	FLOOR	INTERSECTING_FEATURE	BuildingFloor FLOOR	True	True	False	<null></null>	<null></null>	True
97 FacilitySite		129	BuildingInteriorSpace	BASEELEV	INTERSECTING_FEATURE	BuildingFloor BASEELEV	True	True	False	<null></null>	<null></null>	True
91 FacilitySitePoint FACILITYID INTERSECTING_FEATURE FacilitySite FACILITYID True False False Aluli> Aluli> True 92 FacilitySitePoint NAIME INTERSECTING_FEATURE FacilitySite NAME True False False Aluli> Aluli> True 93 FacilitySitePoint SUBTYPEFIELD INTERSECTING_FEATURE FacilitySite SUBTYPEFIELD True False False Aluli> Aluli> True False Aluli> Alu	⊔	90	FacilitySite	FACILITYID	EXPRESSION	("FAC-"& [OBJECTID])	True	False	False	<null></null>	<null></null>	False
92 FacilitySitePoint NAME INTERSECTING_FEATURE FacilitySite NAME True False False <null> <null> True 93 FacilitySitePoint SUBTYPEFELD INTERSECTING_FEATURE FacilitySite SuBTYPEFELD True False False <null> <null> <null> True 94 FacilitySitePoint FEATURECODE INTERSECTING_FEATURE FacilitySite StaPEDE True False False <null> <null> <null> True 95 FacilitySitePoint FEATURECODE INTERSECTING_FEATURE FacilitySite ShAPE_Area True False False <null> <null> <null> True 96 FacilitySitePoint FACAREA INTERSECTING_FEATURE FacilitySite ShAPE_Area True False False <null> <null> False False <null> <null> True 96 FacilitySitePoint FULLADDR NEAREST_FEATURE_ATTRIBUTES SITEAAddressPoint FULLADDR FULLADR FU</null></null></null></null></null></null></null></null></null></null></null></null></null></null></null>		97	FacilitySite	NAME	CASCADE_ATTRIBUTE	FacilitySitePoint NAME	False	True	False	<null></null>	<null></null>	False
93 FacilitySitePoint SUBTYPEFIELD INTERSECTING_FEATURE FacilitySite SUBTYPEFIELD True False False <nul> 4 FacilitySitePoint FEATURECODE INTERSECTING_FEATURE 94 FacilitySitePoint FEATURECODE INTERSECTING_FEATURE 95 FacilitySitePoint FEATURECODE INTERSECTING_FEATURE 96 FacilitySitePoint FACAREA INTERSECTING_FEATURE 97 FacilitySitePoint FULLADOR NEAREST_FEATURE 98 FacilitySitePoint FULLADOR NEAREST_FEATURE 99 FacilitySitePoint OWNTYPE INTERSECTING_FEATURE 90 FacilitySitePoint OWNTYPE INTERSECTING_FEATURE 90 FacilitySitePoint OWNTYPE INTERSECTING_FEATURE 91 FacilitySitePoint OWNTYPE INTERSECTING_FEATURE 92 FacilitySitePoint OWNTYPE INTERSECTING_FEATURE 93 FacilitySitePoint OWNTYPE INTERSECTING_FEATURE 94 FacilitySitePoint OWNTYPE INTERSECTING_FEATURE 95 FacilitySitePoint OWNTYPE INTERSECTING_FEATURE 96 FacilitySitePoint OWNTYPE INTERSECTING_FEATURE 97 FacilitySitePoint OWNTYPE INTERSECTING_FEATURE 98 FacilitySitePoint OWNTYPE INTERSECTING_FEATURE 99 FacilitySitePoint OWNTYPE INTERSECTING_FEATURE 90 FacilitySitePoint OWNTYPE INTERSECTING_FEATURE 90 FacilitySitePoint OWNTYPE INTERSECTING_FEATURE 91 Levee False Interview Interv</nul>	Ш	91	FacilitySitePoint	FACILITYID	INTERSECTING_FEATURE	FacilitySite FACILITYID	True	False	False	<null></null>	<null></null>	True
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Second State		93	FacilitySitePoint	SUBTYPEFIELD	INTERSECTING_FEATURE	FacilitySite SUBTYPEFIELD	True	False	False	<null></null>	<null></null>	True
96 FacilitySitePoint FULLADDR NEAREST_FEATURE_ATTRIBUTES SiteAddressPoint FULLADDR FULLADD True True False <\nu > <\nu > <\nu > <\nu > <\nu > False <\nu > <\nu > <\nu > False <\nu > <\nu > <\nu > <\nu > False <\nu > <\nu > <\nu > <\nu > <\nu > False <\nu > <\nu > <\nu > <\nu > <\nu > False <\nu > <\nu > <\nu > <\nu > <\nu > False <\nu > <\nu > <\nu > <\nu > <\nu > False <\nu > <\nu > <\nu > <\nu > <\nu > <\nu > False <\nu >	⊔	94	FacilitySitePoint	FEATURECODE	INTERSECTING_FEATURE	FacilitySite FCODE	True	False	False	<null></null>	<null></null>	True
98 FacilitySitePoint OWNTYPE INTERSECTING_FEATURE FacilitySite OWNTYPE True False False <null> <null> <null> False <null> <null> <null> False <null> <null> <null> False <null> <null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null>		95	FacilitySitePoint	FACAREA	INTERSECTING_FEATURE	FacilitySite SHAPE_Area	True	False	False	<null></null>	<null></null>	True
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121 LandscapeArea FACILITYID INTERSECTING_FEATURE FacilityStelFACILITYID True True False Alui > Alui > True True False Alui > Alui > True True False Alui > Alui		98	FacilitySitePoint	OWNTYPE	INTERSECTING_FEATURE	FacilitySite OWNTYPE	True	False	False	<null></null>	<null></null>	True
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101 Levee FLOODIMPID INTERSECTING_FEATURE FloodImpactArealFLOODIMPID True False False Alui > Alui > True False False Alui > Alui > True False Alui > Alui >	⊔	121	LandscapeArea	FACILITYID	INTERSECTING_FEATURE	FacilitySite FACILITYID	True	True	False	<null></null>	<null></null>	True
102		100	Levee	FACILITYID	GENERATE_ID	LEVEEID 0 Levee-[seq]	True	False	False	<null></null>	<null></null>	False
103 Levee TOTCOST EXPRESSION ([CUBYRD]*[CSTCUBYRD]) True True False Null> False	Ш	101	Levee	FLOODIMPID	INTERSECTING_FEATURE	FloodImpactArea FLOODIMPID	True	False	False	<null></null>	<null></null>	True
17 MasterStreetName		102	Levee	CUBYRD	EXPRESSION	(([SHAPE_Length]*[HEIGHT]*([SIDESLO	True	True	False	<null></null>	<null></null>	False
18 MasterStreetName		103	Levee	TOTCOST	EXPRESSION	([CUBYRD]*[CSTCUBYRD])	True	True	False	<null></null>	<null></null>	False
49 MasterStreetName FULLNAME CASCADE_ATTRIBUTE RoadCenterline FULLNAME False True False <null> 1 False 50 MasterStreetName FULLNAME CASCADE_ATTRIBUTE SiteAddressPoint FULLNAME False True False <null> 1 False 124 PavementMarkingLine FACILITYID INTERSECTING_FEATURE FacilitySite FACILITYID True True False <null> <null> 1 True 125 PavementMarkingPoint FACILITYID INTERSECTING_FEATURE FacilitySite FACILITYID True True False <null> <null> True 126 True False <null> <null> True 127 True 128 True False <null> <null> True 129 True 120 True 120 True 120 True 121 True 122 True 123 True 124 True 125 PavementMarkingPoint FACILITYID INTERSECTING_FEATURE FacilitySite FACILITYID True 125 True 126 True 127 True 128 True 129 True 120 True 12</null></null></null></null></null></null></null></null></null></null>	⊔	17	MasterStreetName	FULLNAME	EXPRESSION	[ROADPREDIR] + " " + [ROADNAME] + "	True	True	False	<null></null>	1	False
50 MasterStreetName FULLNAME CASCADE_ATTRIBUTE SiteAddressPoint FULLNAME False True False <nul> False <nul> 1 False 124 PavementMarkingLine FACILITYID INTERSECTING_FEATURE FacilitySite FACILITYID True True False <nul> <nul> Null> True 125 PavementMarkingPoint FACILITYID INTERSECTING_FEATURE FacilitySite FACILITYID True False <nul> <nul> Null> <nul> Null> True</nul></nul></nul></nul></nul></nul></nul>		18	MasterStreetName	STATUS	LAST_VALUE	<null></null>	True	True	False	<null></null>	<null></null>	False
124 PavementMarkingLine FACILITYID INTERSECTING_FEATURE FacilitySite FACILITYID True True False Null> Null> True True False Null> Null> True True False Null>	Ш	49	MasterStreetName	FULLNAME	CASCADE_ATTRIBUTE	RoadCenterline FULLNAME	False	True	False	<null></null>	1	False
125 PavementMarkingPoint FACILITYID INTERSECTING_FEATURE FacilitySite FACILITYID True True False <null> <null> True</null></null>		50	MasterStreetName	FULLNAME	CASCADE_ATTRIBUTE	SiteAddressPoint FULLNAME	False	True	False	<null></null>	1	False
	Ш	124	PavementMarkingLine	FACILITYID	INTERSECTING_FEATURE	FacilitySite FACILITYID	True	True	False	<null></null>	<null></null>	True
140 Pole0 FACILITYID GENERATE_ID POLEID 0 POLE-[seq] True False False True <null> 10 False</null>		125	PavementMarkingPoint	FACILITYID	INTERSECTING_FEATURE	FacilitySite FACILITYID	True	True	False	<null></null>	<null></null>	True
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| WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
      | See the License for the specific language governing permissions and
      | limitations under the License.
   ⊟<configuration>
       <Name>Attribute Assistant Release</Name>
       <appSettings>
         <!--Options for the Attribute Assistant-->
         <!--Option to turn on the AA on startup-->
         <add key="AttributeAssistant EnabledOnStartUp" value="True" />
         <!--Option to turn on the AA on when editing is started-->
         <add key="AttributeAssistant EnabledOnStartEditing" value="False" />
         <!--The name of the table that defines the functions for the Attribute Assistant-->
         <add key="AttributeAssistant TableName" value="DynamicValue" />
         <!--The table used for Unique ID Generation-->
         <add key="AttributeAssistant GenerateId TableName" value="GenerateId" />
         <!--Activate the debug mode which writes a log file-->
         <add key="AttributeAssistant Debug" value="false" />
         <!--Path to store the log file, do not include the file name. The default location is %USERPROFILE%\ArcGISSo
         <add key="AttributeAssistant Debug Path" value="" />
         <!--Option to clear the last values between toggling it on and off-->
         <add key="AttributeAssistant ClearLastValue" value="False" />
         <!--Option to clear the last value array when you switch a version-->
         <add key="AttributeAssistant ClearLastValueStopEdit" value="False" />
         <!--The geocoder used by the AA for the Get Address rule-->
         <add key="Geocoder" value="http://geocode.arcgis.com/arcgis/rest/services/World/GeocodeServer/"/>
         <!--Field names in the Generate ID Table-->
46
         <add key="SequenceName" value="SEQNAME"/>
         <add key="SequenceCounter" value="SEQCOUNTER"/>
                                           EQINTERV"/>
```

t AA processing related records. If True, delete operations will be much ovalue="True"/>

of On Change Geometry when a line or polygon is split using the Split To False"/>

	OBJECTID*	Sequence Name	Sequence Counter	Comments	Interval Value
	9	ADDRESSPOINTID	52	<null></null>	1
	10	ADDRESSENTRANCEID	4	<null></null>	1
	11	SITEADDRESSID	11	<null></null>	1
	12	PSTLADDID	5	<null></null>	1
	13	CENTERLINEID	12	<null></null>	1
	14	IMPACTID	1	<null></null>	1
	15	LEVEEID	1	<null></null>	1
	16	PREPLAN	3	<null></null>	1
	17	PRECOMPLEX	1	<null></null>	1
	18	STREETID	300	<null></null>	1
	19	STREETINTID	88	<null></null>	1
	20	WHYDRANT	1439	<null></null>	1
Ш	21	MANHOLE	2493	<null></null>	1
	22	WSYSTEMVALVE	4817	<null></null>	1
Ш	23	WMETER	8193	<null></null>	1
	24	WCONTROLVALVE	6	<null></null>	1
Ш	25	PICLEANOUT	36	<null></null>	1
	26	WATERMAIN	4280	<null></null>	1
Ш	27	WATERLATERAL	19659	<null></null>	1
	28	POLEID	7	<null></null>	1
	29	SIGNID	16	<null></null>	1
	30	SIGNALID	1	<null></null>	1
	31	STREETLIGHTID	1	<null></null>	1

Attribute Assistant Methods

Extend editing with additional capabilities

- Attribute operations
- Editor tracking
- Feature creation
- Geometric Network
- Intersecting features
- Location
- Related table
- Sequences and ID

- Shape updates
- Spatial operations
- Validation

Attribute Assistant Methods

71 different ways to tailor your editing experience

	,	,	3 on ponons				
1.	Angle	20.	Generate ID By Intersect	39.	Map Info	57.	Trigger Attribute Assistant Event Intersecting Feature
2.	Autonumber	21.	Get Address From Centerline	40.	Minimum Length		
3.	Cascade Attributes	22.	Get Address Using ArcGIS Service	41.	Multiple Field Intersecting Values	58.	Trigger Attribute Assistant Event To Edge
4.	Copy Features	23.	Get Address Using Geocoder	42.	Nearest Feature	59.	Trigger Attribute Assistant Event To
5.	Copy Linked Record	24.	GUID	43.	Nearest Feature Attributes		Junction
6.	Create Linked Record	25.	Intersecting Boolean	44.	Offset	60.	Update From Edge Field
7.	Create Perpendicular Line	26.	Intersecting Count	45.	Previous Value	61.	Update From Junction Field
8.	Create Perpendicular Line to Line	27.	Intersecting Edge	46.	Prompt	62.	Update Intersecting Feature
9.	Current Username	28.	Intersecting Feature	47.	Set Measures	63.	Update Linked Record
10.	Edge Statistics	29.	Intersecting Feature Distance	48.	Side	64.	Update To Edge Field
11.	Expression	30.	Intersecting Layer Details	49.	Split Intersecting Feature	65.	Update To Junction Field
12.	Feature Statistics	31.	Intersecting Raster	50.	Timestamp	66.	Validate Attribute Lookup
13.	Field	32.	Intersecting Statistics	51.	To Edge Field		Validate Attributes
14.	Field Trigger	33.	Junction Rotation	52.	To Edge Multiple Field Intersect		Validate Connectivity
15.	From Edge Field	34.	Last Value	53.	To Edge Statistics		Validate Domain
16.	From Edge Multiple Field Intersection	35.	Latitude	54.	To Junction Field		X Coordinate
17.	From Edge Statistics	36.	Length	55.	Trigger Attribute Assistant Event From		Y Coordinate
18.	From Junction Field	37.	Link Table Asset		Edge		
19.	Generate ID	38.	Longitude	56.	Trigger Attribute Assistant Event From Junction		

Attribute Assistant Methods

Focusing in on the most used methods

- 1. Generate ID
- 2. Intersecting Feature
- 3. Get Address Using ArcGIS Service
- 4. Rotation
- 5. Expression
- 6. Validate attribute lookup
- 7. Previous Value
- 8. Cascade Attributes
- Last Value
- 10. To Junction / From Junction

Summary

Designed to save time, improve accuracy and streamline data maintenance

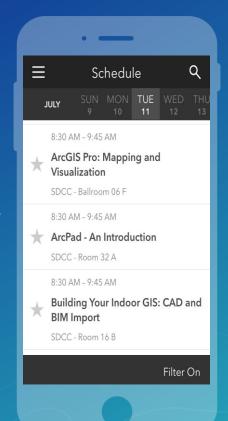
- Use the solution apps and help to learn the rules
- Start with a blank Dynamic Value Table
- Iterate when developing your rule base
 - Use the log file
- Does work in a versioned environment
 - Do not version the Generate ID Table

Please Take Our Survey on the Esri Events App!

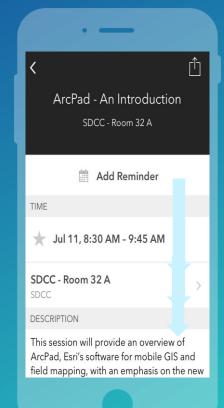
Download the Esri Events app and find your event



Select the session you attended



Scroll down to find the survey



Complete Answers and Select "Submit"



