

## WaterDistribution - FeatureDataset

**Name** WaterDistribution

**Description** This dataset contains a collection of features that represent the water distribution network in a community.

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## wAbandonedLine - FeatureClass

**Name** wAbandonedLine

**ShapeType** Polyline

**FeatureType** Simple

**AliasName** Water Abandoned Lines

**HasM** true

**HasZ** false

**HasAttachments** false

**Description** Abandoned Water Network Line features.

**Tags** WaterDistribution

Field	Data Type	Length	Alias Name	Description	Domain	Default Value	Is Nullable	Precision	Scale
LINETYPE	String	60	Line Type	The type of abandoned line			true		
INSTALLDATE	Date	8	Install Date	The date the asset was installed			true		
ABANDATE	Date	8	Abandoned Date	The date the asset was abandoned			true		
MATERIAL	String	20	Material	Material the asset is manufactured with	<a href="#">piPipeMaterial</a>		true		
DIAMETER	Double	8	Diameter	The diameter	<a href="#">piPipeDiameter</a>		true		

				of the pipe					
FACILITYID	String	20	Facility Identifier	Locally assigned Facility Identifier			true		
LASTUPDATE	Date	8	Last Update Date	The date the feature was last updated in the maintenance database			true		
LASTEDITOR	String	50	Last Editor	The user who performed the last update			true		

### wAbandonedPoint - FeatureClass

**Name** wAbandonedPoint  
**ShapeType** Point  
**FeatureType** Simple  
**AliasName** Water Abandoned Points  
**HasM** true  
**HasZ** false  
**HasAttachments** false

**Description** Abandoned Water Network Point features.

**Tags** WaterDistribution

Field	Data Type	Length	Alias Name	Description	Domain	Default Value	Is Nullable	Precision	Scale
POINTTYPE	String	60	Point Type	Name of feature class that the point			true		

				came from					
INSTALLDATE	Date	8	Install Date	The date the asset was installed			true		
ABANDONDATE	Date	8	Abandoned Date	The date the asset was abandoned			true		
MATERIAL	String	20	Material	Material the asset is manufactured with	<a href="#">piPipeMaterial</a>		true		
DIAMETER	Double	8	Diameter	The diameter of the asset	<a href="#">piPipeDiameter</a>		true		
FACILITYID	String	20	Facility Identifier	Locally assigned Facility Identifier			true		
LASTUPDATE	Date	8	Last Update Date	The date the feature was last updated in the maintenance database			true		
LASTEDITOR	String	50	Last Editor	The user who performed the last update			true		

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### WaterDistribution\_Net\_Junctions - FeatureClass

**Name** WaterDistribution\_Net\_Junctions  
**ShapeType** Point  
**FeatureType** SimpleJunction

**AliasName** WaterDistribution\_Net\_Junctions

**HasM** false

**HasZ** false

**HasAttachments** false

**Description** WaterDistribution\_Net\_Junctions

Field	Data Type	Length	Alias Name	Description	Domain	Default Value	Is Nullable	Precision	Scale
Enabled	Small Integer	2	Enabled	Enabled	<a href="#">EnabledDomain</a>	1	true		

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### wCasing - FeatureClass

**Name** wCasing

**ShapeType** Polyline

**FeatureType** Simple

**AliasName** Water Casings

**HasM** false

**HasZ** false

**HasAttachments** false

**Description** Casings and other protective containers around pipes.

**Tags** WaterDistribution

Field	Data Type	Length	Alias Name	Description	Domain	Default Value	Is Nullable	Precision	Scale
FACILITYID	String	20	Facility ID	Locally assigned Facility Identifier			true		
INSTALLDATE	Date	8	Install Date	The date the asset was installed			true		
DIAMETER	Double	8	Diameter	The diameter of the asset	<a href="#">piPipeDiameter</a>		true		

MATERIAL	String	20	Material	Material the asset is manufactured with	<a href="#">piPipeMaterial</a>		true		
RECORDLENGTH	Double	8	Recorded Length	Recorded length of the casing			true		
ACTIVEFLAG	SmallInteger	2	Active Flag	Indicates if the feature is in use/active	<a href="#">BooleanDomain</a>	1	true		
OWNEDBY	SmallInteger	2	Owned By	Indicates which organization owns the asset	<a href="#">AssetOwner</a>	1	true		
MAINTBY	SmallInteger	2	Managed By	Indicates which organization maintains the asset	<a href="#">AssetManager</a>	1	true		
LASTUPDATE	Date	8	Last Update Date	The date the feature was last updated in the maintenance database			true		
LASTEDITOR	String	50	Last Editor	The user who performed the last update			true		

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## wControlValve - FeatureClass

**Name** wControlValve  
**ShapeType** Point  
**FeatureType** SimpleJunction  
**AliasName** Water Control Valves  
**HasM** false  
**HasZ** false  
**HasAttachments** false

**Description** Water Network Valves that have a control mechanism such as blowoff or relief.

**Tags** WaterDistribution

Field	Data Type	Length	Alias Name	Description	Domain	Default Value	Is Nullable	Precision	Scale
FACILITYID	String	20	Facility Identifier	Locally assigned Facility Identifier			true		
INSTALLDATE	Date	8	Install Date	The date the asset was installed			true		
LOCDESC	String	200	Location Description	Text Description of the geographic location			true		
ROTATION	Double	8	Rotation	Map Symbol Rotation value			true		
DIAMETER	Double	8	Diameter	The diameter of the pipe the valve is attached to	<a href="#">piPipeDiameter</a>		true		

VALVETYPE	String	30	Valve Type	Type of control valve	<a href="#">piControlValveType</a>		true		
ENABLED	SmallInteger	2	Enabled	Enabled	<a href="#">EnabledDomain</a>	1	true		
ACTIVEFLAG	SmallInteger	2	Active Flag	Indicates if the feature is in use/active	<a href="#">BooleanDomain</a>	1	true		
OWNEDBY	SmallInteger	2	Owned By	Indicates which organization owns the asset	<a href="#">AssetOwner</a>	1	true		
MAINTBY	SmallInteger	2	Managed By	Indicates which organization maintains the asset	<a href="#">AssetManager</a>	1	true		
LASTUPDATE	Date	8	Last Update Date	The date the feature was last updated in the maintenance database			true		
LASTEDITOR	String	50	Last Editor	The user who performed the last update			true		

### wCurbStopValve - FeatureClass

**Name** wCurbStopValve  
**ShapeType** Point  
**FeatureType** SimpleJunction  
**AliasName** Water Curb Stop Valves

**HasM** false

**HasZ** false

**HasAttachments** false

**Description** Water network valves that control flow to a lateral and service connection.

**Tags** WaterDistribution

Field	Data Type	Length	Alias Name	Description	Domain	Default Value	Is Nullable	Precision	Scale
FACILITYID	String	20	Facility Identifier	Locally assigned Facility Identifier			true		
INSTALLDATE	Date	8	Install Date	The date the asset was installed			true		
LOCDESC	String	200	Location Description	Text Description of the geographic location			true		
ROTATION	Double	8	Rotation	Map Symbol Rotation value			true		
DIAMETER	Double	8	Diameter	The diameter of the pipe the valve is connected to	<a href="#">piPipeDiameter</a>	1	true		
VALVETYPE	String	30	Valve Type	Type of curb stop valve	<a href="#">piSystemValveType</a>	Roundway	true		
NORMALLY OPEN	SmallInteger	2	Normally Open	Flag to indicate if the device is normally open	<a href="#">BooleanDomain</a>	1	true		



TURNSTOCLOSE	Integer	4	Turns To Close	TurnsToClose			true		
OPERABLE	SmallInteger	2	Operable	Indicates if the asset can be operated	<a href="#">BooleanDomain</a>	1	true		
CURROPEN	SmallInteger	2	Currently Open	Flag to indicate if the device is currently open	<a href="#">BooleanDomain</a>	1	true		
ENABLED	SmallInteger	2	Enabled	Enabled	<a href="#">EnabledDomain</a>	1	true		
ACTIVEFLAG	SmallInteger	2	Active Flag	Indicates if the feature is in use/active	<a href="#">BooleanDomain</a>	1	true		
OWNEDBY	SmallInteger	2	Owned By	Indicates which organization owns the asset	<a href="#">AssetOwner</a>	1	true		
MAINTBY	SmallInteger	2	Managed By	Indicates which organization maintains the asset	<a href="#">AssetManager</a>	1	true		
LASTUPDATE	Date	8	Last Update Date	The date the feature was last updated in the maintenance database			true		
LASTEDITOR	String	50	Last Editor	The user who performed the last update			true		

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## wFitting - FeatureClass

**Name** wFitting  
**ShapeType** Point  
**FeatureType** SimpleJunction  
**AliasName** Water Fittings  
**HasM** false  
**HasZ** false  
**HasAttachments** false

**Description** Water network features that connect segments of pipe.

**Tags** WaterDistribution

Field	Data Type	Length	Alias Name	Description	Domain	Default Value	Is Nullable	Precision	Scale
FACILITYID	String	20	Facility Identifier	Locally assigned Facility Identifier			true		
INSTALLDATE	Date	8	Install Date	The date the asset was installed			true		
FITTINGTYPE	String	50	Fitting Type	The type of fitting	<a href="#">piFittingType</a>		true		
LOCDESC	String	200	Location Description	Text Description of the geographic location			true		
ROTATION	Double	8	Rotation	Map Symbol Rotation value			true		
ENABLED	SmallInteger	2	Enabled	Enabled	<a href="#">EnabledDomain</a>	1	true		
ACTIVEFLAG	SmallInteger	2	Active Flag	Indicates if the feature is	<a href="#">BooleanDomain</a>	1	true		

				in use/active					
OWNEDBY	SmallInteger	2	Owned By	Indicates which organization owns the asset	<a href="#">AssetOwner</a>	1	true		
MAINTBY	SmallInteger	2	Managed By	Indicates which organization maintains the asset	<a href="#">AssetManager</a>	1	true		
LASTUPDATE	Date	8	Last Update Date	The date the feature was last updated in the maintenance database			true		
LASTEDITOR	String	50	Last Editor	The user who performed the last update			true		

## wHydrant - FeatureClass

**Name** wHydrant  
**ShapeType** Point  
**FeatureType** SimpleJunction  
**AliasName** Water Hydrants  
**HasM** false  
**HasZ** false  
**HasAttachments** false  
**Description** Water network hydrants.  
**Tags** WaterDistribution

Field	Data Type	Length	Alias Name	Description	Domain	Default Value	Is Nullable	Precision	Scale
FACILITYID	String	20	Facility Identifier	Locally assigned Facility Identifier			true		
INSTALLDATE	Date	8	Install Date	The date the asset was installed			true		
LOCDESC	String	200	Location Description	Text Description of the geographic location			true		
ROTATION	Double	8	Rotation	Map Symbol Rotation value			true		
MANUFACTURER	String	30	Manufacturer	The manufacturer of the hydrant	<a href="#">wHydrantManufacturer</a>		true		
OPERABLE	SmallInteger	2	Operable	Indicates if the hydrant can be operated	<a href="#">BooleanDomain</a>	1	true		
LASTSERVICE	Date	8	Last Service Date	The last date the hydrant was serviced			true		
ENABLED	SmallInteger	2	Enabled	Enabled	<a href="#">EnabledDomain</a>	1	true		
ACTIVEFLAG	SmallInteger	2	Active Flag	Indicates if the feature is in use/active	<a href="#">BooleanDomain</a>	1	true		
OWNEDBY	SmallInteger	2	Owned By	Indicates which organization	<a href="#">AssetOwner</a>	1	true		

				on owns the asset					
MAINTBY	SmallInteger	2	Managed By	Indicates which organization maintains the asset	<a href="#">AssetManager</a>	1	true		
LASTUPDATE	Date	8	Last Update Date	The date the feature was last updated in the maintenance database			true		
LASTEDITOR	String	50	Last Editor	The user who performed the last update			true		
FLOW	Double	8	Flow Rate (GPM)	Flow Rate in gallons/minute			true		

### wLateralLine - FeatureClass

**Name** wLateralLine  
**ShapeType** Polyline  
**FeatureType** ComplexEdge  
**AliasName** Water Lateral Lines  
**HasM** true  
**HasZ** false  
**HasAttachments** false  
**Description** Water network service connection lines.  
**Tags** WaterDistribution

Field	Data Type	Length	Alias Name	Description	Domain	Default Value	Is Nullable	Precision	Scale
FACILITYID	String	20	Facility Identifier	Locally assigned Facility Identifier			true		
INSTALLDATE	Date	8	Install Date	The date the asset was installed			true		
MATERIAL	String	20	Material	Material the material is manufactured with	<a href="#">piPipeMaterial</a>	COP	true		
LINETYPE	String	30	Line Type	The type of lateral	<a href="#">wLateralType</a>	Domestic	true		
LOCDESC	String	50	Location Description	Text Description of the geographic location			true		
DIAMETER	Double	8	Diameter	The diameter of the lateral	<a href="#">piPipeDiameter</a>	1	true		
WATERTYPE	String	30	Water Type	Indicates the type of water in the pipe	<a href="#">wWaterType</a>	Potable	true		
ENABLED	SmallInteger	2	Enabled	Enabled	<a href="#">EnabledDomain</a>	1	true		
ACTIVEFLAG	SmallInteger	2	Active Flag	Indicates if the feature is in use/active	<a href="#">BooleanDomain</a>	1	true		
OWNEDBY	SmallInteger	2	Owned By	Indicates which organization owns the asset	<a href="#">AssetOwner</a>	1	true		
MAINTBY	SmallInteger	2	Managed By	Indicates which	<a href="#">AssetManager</a>	1	true		

				organization maintains the asset					
LASTUPDATE	Date	8	Last Update Date	The date the feature was last updated in the maintenance database			true		
LASTEDITOR	String	50	Last Editor	The user who performed the last update			true		

### wMain - FeatureClass

**Name** wMain

**ShapeType** Polyline

**FeatureType** ComplexEdge

**AliasName** Water Mains

**HasM** true

**HasZ** false

**HasAttachments** false

**Description** Water distribution mains.

**Tags** WaterDistribution

Field	Data Type	Length	Alias Name	Description	Domain	Default Value	Is Nullable	Precision	Scale
FACILITYID	String	20	Facility Identifier	Locally assigned Facility Identifier			true		
INSTALLDATE	Date	8	Install Date	The date the asset			true		

				was installed					
MATERIAL	String	20	Material	Material the main is manufactured with	<a href="#">piPipeMaterial</a>	PVC	true		
DIAMETER	Double	8	Diameter	The diameter of the main	<a href="#">piPipeDiameter</a>	12	true		
WATERTYPE	String	30	Water Type	Indicates the type of water in the pipe	<a href="#">wWaterType</a>	Potable	true		
ENABLED	SmallInteger	2	Enabled	Enabled	<a href="#">EnabledDomain</a>	1	true		
ACTIVEFLAG	SmallInteger	2	Active Flag	Indicates if the feature is in use/active	<a href="#">BooleanDomain</a>	1	true		
OWNEDBY	SmallInteger	2	Owned By	Indicates which organization owns the asset	<a href="#">AssetOwner</a>	1	true		
MAINTBY	SmallInteger	2	Managed By	Indicates which organization maintains the asset	<a href="#">AssetManager</a>	1	true		
LASTUPDATE	Date	8	Last Update Date	The date the feature was last updated in the maintenance database			true		
LASTEDITOR	String	50	Last Editor	The user who			true		



				performed the last update					
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**wNetworkStructure - FeatureClass**

**Name** wNetworkStructure  
**ShapeType** Point  
**FeatureType** SimpleJunction  
**AliasName** Water Network Structures  
**HasM** false  
**HasZ** false  
**HasAttachments** false

**Description** Water network structures such as treatment plants and pump stations.

**Tags** WaterDistribution

Field	Data Type	Length	Alias Name	Description	Domain	DefaultValue	Is Nullable	Precision	Scale
FACILITYID	String	20	Facility Identifier	Locally assigned Facility Identifier			true		
INSTALLDATE	Date	8	Install Date	The date the asset was installed			true		
LOCDESC	String	200	Location Description	Text Description of the geographic location			true		
ROTATION	Double	8	Rotation	Map Symbol Rotation value			true		
NAME	String	20	Name	The name of the facility or			true		

				location the network structure is housed					
OPDATE	Date	8	Operational Date	Date when the facility was put into service			true		
STRUCTTYPE	String	30	Structure Type	Type of Sewer Network structure	<a href="#">wStructureType</a>	Pump Station	true		
ENABLED	SmallInteger	2	Enabled	Enabled	<a href="#">EnabledDomain</a>	1	true		
ACTIVEFLAG	SmallInteger	2	Active Flag	Indicates if the feature is in use/active	<a href="#">BooleanDomain</a>	1	true		
OWNEDBY	SmallInteger	2	Owned By	Indicates which organization owns the asset	<a href="#">AssetOwner</a>	1	true		
MAINTBY	SmallInteger	2	Managed By	Indicates which organization maintains the asset	<a href="#">AssetManager</a>	1	true		
LASTUPDATE	Date	8	Last Update Date	The date the feature was last updated in the maintenance database			true		
LASTEDITOR	String	50	Last Editor	The user who			true		

				performed the last update					
AncillaryRole	SmallInteger	2	AncillaryRole	AncillaryRole	<a href="#">AncillaryRoleDomain</a>	0	true		

## wPump - FeatureClass

**Name** wPump

**ShapeType** Point

**FeatureType** SimpleJunction

**AliasName** Water Pumps

**HasM** false

**HasZ** false

**HasAttachments** false

**Description** Pumps within the water network.

**Tags** WaterDistribution

Field	Data Type	Length	Alias Name	Description	Domain	DefaultValue	Is Nullable	Precision	Scale
FACILITYID	String	20	Facility ID	Locally assigned Facility Identifier			true		
INSTALLDATE	Date	8	Install Date	The date the asset was installed			true		
PUMPTYPE	String	50	Pump Type	The type of water pump	<a href="#">wPumpType</a>		true		
LOCDESC	String	200	Location Description	Text Description of the geographic location			true		
ROTATION	Double	8	Rotation	Map Symbol			true		

				Rotation value					
ELEVATION	Double	8	Elevation	Elevation value for contour line			true		
INLETDIAM	Double	8	Inlet Diameter	Diameter of pump inlet	<a href="#">piPipeDiameter</a>		true		
DISCHDIAM	Double	8	Discharge Diameter	Diameter of pump discharge	<a href="#">piPipeDiameter</a>		true		
RATEDFLOW	String	20	Rated Flow	The rated flow typically defined by manufacturer			true		
RATEDPRESS	String	20	Rated Pressure	The rated pressure typically defined by manufacturer			true		
DYNHEAD	String	20	Total Dynamic Head	Dynamic Head			true		
SHUTHEAD	Double	8	Shutoff Head	Shut off Head			true		
DESHEAD	Double	8	Design Head	Design Head			true		
MAXOPERATINGHEAD	Double	8	Max Operating Head	Max Operating Head			true		
NAME	String	50	Name	The name of the facility or location the pump is housed in			true		

DESIGNGPM	Double	8	Design GPM	Design Gallons per minute			true		
MAXOPDISC	Double	8	Max Operating Discharge	Max Operating Discharge flow			true		
ENABLED	SmallInteger	2	Enabled	Enabled	<a href="#">EnabledDomain</a>	1	true		
ACTIVEFLAG	SmallInteger	2	Active Flag	Indicates if the feature is in use/active	<a href="#">BooleanDomain</a>	1	true		
OWNEDBY	SmallInteger	2	Owned By	Indicates which organization owns the asset	<a href="#">AssetOwner</a>	1	true		
MAINTBY	SmallInteger	2	Managed By	Indicates which organization maintains the asset	<a href="#">AssetManager</a>	1	true		
LASTUPDATE	Date	8	Last Update Date	The date the feature was last updated in the maintenance database			true		
LASTEDITOR	String	50	Last Editor	The user who performed the last update			true		
AncillaryRole	SmallInteger	2	Ancillary Role	Ancillary Role	<a href="#">AncillaryRoleDomain</a>	0	true		

## wServiceConnection - FeatureClass

**Name** wServiceConnection  
**ShapeType** Point  
**FeatureType** SimpleJunction  
**AliasName** Water Service Connections  
**HasM** false  
**HasZ** false  
**HasAttachments** false

**Description** A point of service at the end of a lateral where water service is connected. It may be one meter or multiple meters with the same LocationID.

**Tags** WaterDistribution

Field	Data Type	Length	Alias Name	Description	Domain	DefaultValue	Is Nullable	Precision	Scale
FACILITY ID	String	20	Facility Identifier	Locally assigned Facility Identifier			true		
ACCOUNT ID	String	30	Account Number	Water billing account identifier			true		
METSERVICE	String	5	Metered Service	An indicator used to signify whether the service connection is metered	<a href="#">YesNo</a>	Yes	true		
SERVICE TYPE	String	50	Service Type	The type of service connection	<a href="#">wServicePointType</a>		true		
INSTALL DATE	Date	8	Install Date	The date the asset was installed			true		

LOCDESC	String	200	Location Description	Text Description of the geographic location			true		
ROTATION	Double	8	Rotation	Map Symbol Rotation value			true		
LOCATIONID	String	20	Location Identifier	Location Identifier			true		
CRITICAL	SmallInteger	2	CriticalCustomer	Flag to indicate if this is a Critical Customer	<a href="#">BooleanDomain</a>	0	true		
ENABLED	SmallInteger	2	Enabled	Enabled	<a href="#">EnabledDomain</a>	1	true		
ACTIVEFLAG	SmallInteger	2	Active Flag	Indicates if the feature is in use/active	<a href="#">BooleanDomain</a>	1	true		
OWNEDBY	SmallInteger	2	Owned By	Indicates which organization owns the asset	<a href="#">AssetOwner</a>	1	true		
MAINTBY	SmallInteger	2	Managed By	Indicates which organization maintains the asset	<a href="#">AssetManager</a>	1	true		
LASTUPDATE	Date	8	Last Update Date	The date the feature was last updated in the maintenance			true		

				nce database					
LASTEDITOR	String	50	Last Editor	The user who performed the last update			true		

## wSystemValve - FeatureClass

**Name** wSystemValve  
**ShapeType** Point  
**FeatureType** SimpleJunction  
**AliasName** Water System Valves  
**HasM** false  
**HasZ** false  
**HasAttachments** false

**Description** Water network valves that do not have a pressure controlling mechanism.

**Tags** WaterDistribution

Field	Data Type	Length	Alias Name	Description	Domain	DefaultValue	Is Nullable	Precision	Scale
FACILITYID	String	20	Facility Identifier	Locally assigned Facility Identifier			true		
INSTALLDATE	Date	8	Install Date	The date the asset was installed			true		
LOCDESC	String	200	Location Description	Text Description of the geographic location			true		
ROTATION	Double	8	Rotation	Map Symbol			true		



				Rotation value					
DIAMETER	Double	8	Diameter	The diameter of the asset	<a href="#">piPipeDiameter</a>		true		
VALVETYPE	String	30	Valve Type	Type of system valve	<a href="#">piSystemValveType</a>		true		
BYPASSVALVE	SmallInteger	2	Bypass Valve	Indicates if this is a bypass valve	<a href="#">BooleanDomain</a>	0	true		
CLOCKTOCLOSE	SmallInteger	2	Clockwise To Close	Indicates if the valve turn direction is Clockwise To Close	<a href="#">BooleanDomain</a>	1	true		
NORMALLY OPEN	SmallInteger	2	Normally Open	Flag to indicate if the device is normally open	<a href="#">BooleanDomain</a>	1	true		
TURNSTOCLOSE	Integer	4	Turns To Close	TurnsToClose			true		
OPERABLE	SmallInteger	2	Operable	Indicates if the hydrant can be operated	<a href="#">BooleanDomain</a>	1	true		
HYDRFLAG	SmallInteger	2	Hydrant Valve	Indicates if this is a hydrant valve	<a href="#">BooleanDomain</a>	0	true		
CURROPEN	SmallInteger	2	Currently Open	Flag to indicate if the device is currently open	<a href="#">BooleanDomain</a>	1	true		

ENABLED	SmallInteger	2	Enabled	Enabled	<a href="#">EnabledDomain</a>	1	true		
ACTIVEFLAG	SmallInteger	2	Active Flag	Indicates if the feature is in use/active	<a href="#">BooleanDomain</a>	1	true		
OWNEDBY	SmallInteger	2	Owned By	Indicates which organization owns the asset	<a href="#">AssetOwner</a>	1	true		
MAINTBY	SmallInteger	2	Managed By	Indicates which organization maintains the asset	<a href="#">AssetManager</a>	1	true		
LASTUPDATE	Date	8	Last Update Date	The date the feature was last updated in the maintenance database			true		
LASTEDITOR	String	50	Last Editor	The user who performed the last update			true		

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