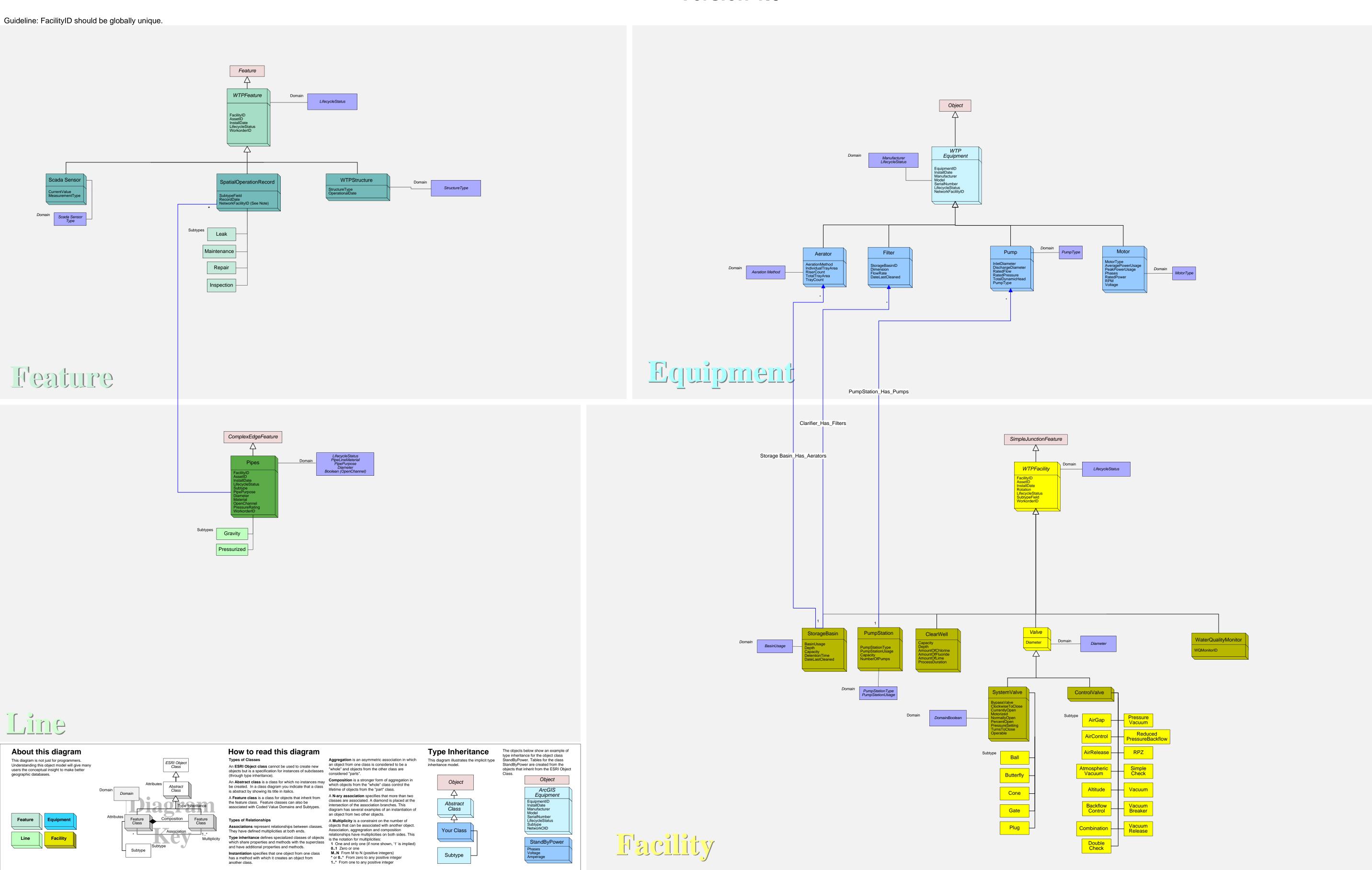


Water Treatment Plant Data Model (Conceptual)

Version 1.0



Domains

Manufacturer

DomainWTPManufacturer
FieldType: <unspecified> = esriFieldTypeString
MergePolicy: <unspecified> = esriMPTDefaultValue
SplitPolicy: <unspecified> = esriSPTDuplicate
John Smith: esriFieldTypeString = JS
McManus: esriFieldTypeString = MC
John Foundry: esriFieldTypeString = JF
Unknown: esriFieldTypeString = Unk
Other: esriFieldTypeString = Oth

Boolean

DomainWTPBoolean
FieldType: <unspecified> = esriFieldTypeSmallInteger
MergePolicy: <unspecified> = esriMPTDefaultValue
SplitPolicy: <unspecified> = esriSPTDuplicate
False: esriFieldTypeSmallInteger = 0
True: esriFieldTypeSmallInteger = 1

LifecycleStatus

DomainWTPLifecycleStatus
FieldType: <unspecified> = esriFieldTypeString
MergePolicy: <unspecified> = esriMPTDefaultValue
SplitPolicy: <unspecified> = esriSPTDuplicate
Proposed: esriFieldTypeString = Proposed
Active: esriFieldTypeString = Active
Abandoned: esriFieldTypeString = Abandoned

Removed : esriFieldTypeString = Removed

PipeMaterial

DomainWTPPipeMaterial
FieldType: <unspecified> = esriFieldTypeString
MergePolicy: <unspecified> = esriMPTDefaultValue
SplitPolicy: <unspecified> = esriSPTDuplicate
Ductile Iron: esriFieldTypeString = DI
Cast Iron: esriFieldTypeString = CI
Poly Vinyl Chloride: esriFieldTypeString = PVC
Asbestos Concrete: esriFieldTypeString = AC
Clay: esriFieldTypeString = CL
Wood: esriFieldTypeString = Wo
Unknown: esriFieldTypeString = Unk
Other: esriFieldTypeString = Oth

pePurpose

DomainWTPPipePurpose
FieldType : <unspecified> = esriFieldTypeString
MergePolicy : <unspecified> = esriMPTDefaultValue
SplitPolicy : <unspecified> = esriSPTDuplicate
RawWater : esriFieldTypeString = Raw Water
ChemicalInjection : esriFieldTypeString = Chemical Injection
InTreatment : esriFieldTypeString = In Treatment
TreatedWater : esriFieldTypeString = Treated Water
Air : esriFieldTypeString = Air
Effluent : esriFieldTypeString = Effluent

AerationMethod

DomainWTPAerationType
FieldType: <unspecified> = esriFieldTypeString
MergePolicy: <unspecified> = esriMPTDefaultValue
SplitPolicy: <unspecified> = esriMPTDefaultValue
SplitPolicy: <unspecified> = esriSPTDuplicate
Diffused: esriFieldTypeString = Diffused Aeration
Spray: esriFieldTypeString = Spray Aeration
Multiple-tray: esriFieldTypeString = Multiple-tray Aeration
Cascade: esriFieldTypeString = Cascade Aeration
Airstripping: esriFieldTypeString = Air strippint Aeration

ScadaSensor

DomainWTPScadaSensorType
FieldType: <unspecified> = esriFieldTypeString
MergePolicy: <unspecified> = esriFieldTypeString
MergePolicy: <unspecified> = esriSPTDuplicate
Amperage: esriFieldTypeString = Amp
Chlorine Residual: esriFieldTypeString = CR
Chlorine Tank Weight: esriFieldTypeString = CTW
Depth: esriFieldTypeString = Depth
Discharge Pressure: esriFieldTypeString = DP
Elevation: esriFieldTypeString = Elev
Flow: esriFieldTypeString = Flow
Pressure: esriFieldTypeString = Press
Suction Pressure: esriFieldTypeString = SP
Tank Level: esriFieldTypeString = TL
Temperature: esriFieldTypeString = Temp
Turbidity: esriFieldTypeString = Velocity
Velocity: esriFieldTypeString = Velocity
Voltage: esriFieldTypeString = Velocity
Vell Level: esriFieldTypeString = WL

PumpType

DomainWTPPumpType
FieldType: <unspecified> = esriFieldTypeString
MergePolicy: <unspecified> = esriMPTDefaultValue
SplitPolicy: <unspecified> = esriSPTDuplicate
Axial: esriFieldTypeString = Axial Flow
Centrifugal: esriFieldTypeString = Centrifugal
Jet: esriFieldTypeString = Jet
Rotary: esriFieldTypeString = Rotary
Screw: esriFieldTypeString = Screw
Turbine: esriFieldTypeString = Turbine
Reciprocating: esriFieldTypeString = Reciprocating

DomainWTPSystemValveRegulationType
FieldType: <unspecified> = esriFieldTypeString
MergePolicy: <unspecified> = esriMPTDefaultValue
SplitPolicy: <unspecified> = esriSPTDuplicate
Flow: esriFieldTypeString = Flow
Pressure: esriFieldTypeString = Pressure

SystemValveRegulationType

PumpStationUsage

DomainWTPPumpStationUsage
FieldType: <unspecified> = esriFieldTypeString
MergePolicy: <unspecified> = esriMPTDefaultVe
SplitPolicy: <unspecified> = esriSPTDuplicate
Water: esriFieldTypeString = Water
Chemical: esriFieldTypeString = Chemical Meter
Effluent: esriFieldTypeString = Effluent/Sludge

PumpStationType

DomainWTPPumpStationType
FieldType: <unspecified> = esriFieldTypeString
MergePolicy: <unspecified> = esriMPTDefaultValue
SplitPolicy: <unspecified> = esriSPTDuplicate
Wet-pit: esriFieldTypeString = Wet-pit
Dry-pit: esriFieldTypeString = Dry-pit

MotorType

DomainWTPPumpStationType
FieldType: <unspecified> = esriFieldTypeString
MergePolicy: <unspecified> = esriMPTDefaultValue
SplitPolicy: <unspecified> = esriSPTDuplicate
Induction: esriFieldTypeString = Induction
Synchronous: esriFieldTypeString = Synchronous
VariableSpeed: esriFieldTypeString = Variable Speed

BasinUsage DomainWTPBasinUsage

FieldType: <unspecified> = esriFieldTypeString
MergePolicy: <unspecified> = esriMPTDefaultValue
SplitPolicy: <unspecified> = esriMPTDefaultValue
SplitPolicy: <unspecified> = esriSPTDuplicate
Raw: esriFieldTypeString = Raw Water Storage
Precipitation: esriFieldTypeString = Precipitation Basin
Coagulation: esriFieldTypeString = Coagulation Basin
Flocculation: esriFieldTypeString = Flocculation Basin
Clarifier: esriFieldTypeString = Carifier
Sedimentation: esriFieldTypeString = Sedimentation Basin
Filtration: esriFieldTypeString = Filtration Basin
Effluent: esriFieldTypeString = Effluent Basin
Reservoir: esriFieldTypeString = Reservoir/Tank

Diameter DomainWTPDiameter

DomainW1PDlameter
FieldType:<unspecified> = esriFieldTypeDouble
MergePolicy:<unspecified> = esriMPTDefaultValue
SplitPolicy:<unspecified> = esriSPTDuplicate
Min:
 esriFieldTypeDouble = 1
 max:
 esriFieldTypeDouble = 48

StructureType

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DomainWTPStructureType
FieldType: <unspecified> = esriFieldTypeString
MergePolicy : <unspecified> = esriMPTDefaultValue
SplitPolicy : <unspecified> = esriSPTDuplicate
Intake : esriFieldTypeString = Intake Structure
Raw : esriFieldTypeString = Raw Water Storage
PumpStation : esriFieldTypeString = Pump Station
Precipitation : esriFieldTypeString = Precipitation Basin
Coagulation : esriFieldTypeString = Coagulation Basin
Flocculation : esriFieldTypeString = Flocculation Basin
Clarifier : esriFieldTypeString = Clear Well
Sedimentation : esriFieldTypeString = Clear Well
Sedimentation : esriFieldTypeString = Filtration Basin
Filtration : esriFieldTypeString = Filtration Basin
Effluent : esriFieldTypeString = Filtration Basin
Reservoir: esriFieldTypeString = Filtration Basin
Reservoir: esriFieldTypeString = Filtration Basin
TreatmentPlant : esriFieldTypeString = Treatment Plant
Laboratory : esriFieldTypeString = Laboratory
ChemicalBuilding : esriFieldTypeString = Administration Buildin
Maintenance : esriFieldTypeString = Maintenance Building
Other : esriFieldTypeString = Other