Name: Kansas_Railroads
Package: «FeatureDataset» Kansas_Railroads
Version: 1.0
Author: kyleg

AbstractLinearEvent
«Field»
+ EventID: esriFieldTypeString
+ Offset: esriFieldTypeString
+ FromDate: esriFieldTypeDate
+ ToDate: esriFieldTypeDate
+ FromMeasure: esriFieldTypeDouble
+ ToMeasure: esriFieldTypeDouble
+ LocationError: esriFieldTypeString
+ BusinessFromDate: esriFieldTypeDate
+ BusinessToDate: esriFieldTypeDate
+ DataSource: dSourceCit
+ FromReferentMethod: esriFieldTypeSmallInteger
+ FromReferentLocation: esriFieldTypeString
+ FromReferentOffset: esriFieldTypeString
+ ToReferentMethod: esriFieldTypeSmallInteger
+ ToReferentLocation: esriFieldTypeString
+ ToReferentOffset: esriFieldTypeString
+ GlobalID: esriFieldTypeGlobalID
+ MapDisplay: esriFieldTypeString
notes
All Events shall have these fields

«Polyline»
ev_WeightCapacity
«Field»
+ WeightCap: esriFieldTypeInteger
notes
with robust ballast, ties, and rail gage, freight rail with ability to efficiently transport railcars with gross capacity of 220,000 lb (70 ton), 263,000 lb (100 ton), 268,000 lb (105 ton), 286,000 lb (110 ton) or higher

«Polyline»
ev_TrackChart
«Field»
+ TrackChartOwner: dRailroadAdmo
+ RailLineDivisionRegion: esriFieldTypeString
+ TrackChartSubdivision: esriFieldTypeString
+ TrackChartBranchLine: esriFieldTypeString
+ TrackChartYard: esriFieldTypeString
notes
Track chart subdivision and page index

«Polyline»
ev_TrackChartPage
«Field»
+ TrackChartPage: esriFieldTypeSmallInteger
+ TrackChartFromMilepost: esriFieldTypeDouble
+ TrackChartToMilepost: esriFieldTypeDouble
+ TrackChartURL: esriFieldTypeString
notes
event for track chart page information and linking

«Polyline»
ev_AdministrativeOwner
«Field»
+ RailroadOwner: dRailroadAdmo
notes
Railroad Administrative Owner

«Polyline»
ev_RailLease
«Field»
+ RailLease: dRailroadAdmo
notes
Rail Lease Agreements - a lease typically results in paying a rate to the owner for have full control of the lines including operation

«Polyline»
ev_OperationalLease
«Field»
+ OperLease: dRailroadAdmo
notes
Railroad Operational Lease Agreement - when a spur line contracts with the owner of a main line for operation of the spur trains

«Polyline»
ev_RailWeight
«Field»
+ RailWeight: dRailWeight
notes
Weight of steel track rail in pounds (lbs) per yard.

«Polyline»
ev_TrainCounts
«Field»
+ CorridorID: esriFieldTypeString
+ TotalTrains: esriFieldTypeInteger
+ PassengerTrains: esriFieldTypeInteger
+ ThruTrainsDaytime: esriFieldTypeInteger
+ ThruTrainsNight: esriFieldTypeInteger
+ SwitchingTrains: esriFieldTypeInteger
+ TransitTrains: esriFieldTypeInteger = 0
+ YearOfCount: esriFieldTypeInteger
notes
Train Counts per Year

«Polyline»
ev_UnitTrains
«Field»
+ UnitTrains: dYesNo
+ UnitTrainCount: esriFieldTypeInteger
notes
Rail unit trains consist of 100 cars or mile long trains carrying a single commodity from the same origin to the same destination such as coal from mines to power stations

«Polyline»
ev_RailroadClass
«Field»
+ RailroadClass: dRailroadClass
+ PrimaryFreightNetwork: dStateFreightNetwork
notes
Rail Class by Surface Transportation Board Designation
Kansas Primary Freight Network by Kansas Freight Advisory Committee

«Polyline»
ev_QuietZone
«Field»
+ QuietZone: dYesNo
notes
FRA Designated Quiet Zone

«Polyline»
ev_TrackCounts
«Field»
+ TrackType: dTrackType
+ TrackTypeCount: esriFieldTypeSmallInteger
notes
Count of Tracks per Track Type

«Polyline»
ev_TracksDownRoad
«Field»
+ TrackInHighway: dYesNo = Y
notes
Event is populated "Yes" if the crossing involves a railroad track that is embedded within the pavement or right of way of a highway.

This event should synchronize with the Crossing Inventory for Part IV Item 3 but is not limited to a railroad crossing, rather applies to the linear section of track in the highway pavement or right of way.

«Polyline»
ev_RailSpeed
«Field»
+ MaxTimetableSpeed: esriFieldTypeInteger
+ TypicalSpeedFrom: esriFieldTypeInteger
+ TypicalSpeedTo: esriFieldTypeInteger
notes
Railroad Speed Information

«Polyline»
ev_StructureSegment
«Field»
+ StructureID: esriFieldTypeString
+ StructureType: dStructureType
+ StructureOrientation: dStructureOrientation
notes
Structures such as rail Bridges not included in KHUB Structures

«Polyline»
ev_HorizontalCurve
«Field»
+ CurveDegree: esriFieldTypeDouble
+ CurveRadius: esriFieldTypeDouble
+ CurveType: dCurveType
+ Superelevation: esriFieldTypeSmallInteger
notes
Horizontal Curve Railroad

«Polyline»
ev_PowerAvailable
«Field»
+ PowerAvailable: dYesNo = Y
notes
Extent of Power Available along rail lines

«Polyline»
ev_City
«Field»
+ County: dCounty
+ City: dCityCodeKDOT
+ CityInNear: esriFieldTypeString
notes
State, City, County in or near

«CodedValueDomain»
Domains::dSourceCit
+ FieldType: esriFieldType = esriFieldTypeString
+ MergePolicy: esriMergePolicyType = esriMPTDefaultValue
+ SplitPolicy: esriSplitPolicyType = esriSPTDuplicate
«DomainCodedValue»
+ Aerial Imagery - KanPlan = KP15
+ Aerial Imagery - Surdex 2015 = SDX15
+ Aerial Imagery - Surdex 2018 = SDX18
+ Samsung Device - GPS = SAM
+ Apple Device - GPS = APL
+ Other Handheld GPS = GPS1
+ NAIP 2015 = FS15
+ NAIP 2012 = FS12
+ Estimated = Est
+ Design Plan - KDOT = DTD
+ KDOT Surveyor = DTS
+ Videolog = VL
+ Google = GOOG
+ Railroad Track Chart = RTC
+ Rail Company Other = RCO
+ FRA = FRA
notes
Source of data collection

«CodedValueDomain»
Domains::dRailroadAdmo
+ FieldType: esriFieldType = esriFieldTypeString
+ MergePolicy: esriMergePolicyType = esriMPTDefaultValue
+ SplitPolicy: esriSplitPolicyType = esriSPTDefaultValue
«DomainCodedValue»
+ Union Pacific = UP
+ BNSF = BN
+ Abilene Smoky Valley = ASV
+ Boothill and Western = BHW
+ Blue Rapids = BR
+ Connector = Cx
+ Cimarron Valley = CV
+ Garden City Western = GCW
+ Kansas & Oklahoma = KO
+ Kansas City Southern = KCS
+ Kansas City Terminal = KCT
+ Kyle = KYLE
+ Marshall County Railroad (Central Branch) = MCR
+ Missouri & Northern Arkansas = MNA
+ Midland = MIDL
+ New Century AirCenter = NCA
+ Nebraska, Kansas, Colorado = NKC
+ South Kansas & Oklahoma = SKO
+ V & S = VS
+ Wichita Terminal Association = WTA
+ City of Blackwell Oklahoma = CBOK
+ Blackwell Northern Gateway = BNGR
notes
Railroad Administrative Owner

«CodedValueDomain»
Domains::dRailWeight
+ FieldType: esriFieldType = esriFieldTypeString
+ MergePolicy: esriMergePolicyType = esriMPTDefaultValue
+ SplitPolicy: esriSplitPolicyType = esriSPTDuplicate
«DomainCodedValue»
+ 75 lb/yd = 75
+ 80 lb/yd = 80
+ 85 lb/yd = 85
+ 90 lb/yd = 90
+ 100 lb/yd = 100
+ Medium Heavy = MH
+ Heavy = HV
+ Crane = CRN
notes
Rail Weight in Pounds per Yard

«CodedValueDomain»
Domains::dStateFreightNetwork
+ FieldType: esriFieldType = esriFieldTypeString
+ MergePolicy: esriMergePolicyType = esriMPTDefaultValue
+ SplitPolicy: esriSplitPolicyType = esriSPTDuplicate
«DomainCodedValue»
+ Primary = 1
+ Secondary = 2
State Freight Network Clas

«CodedValueDomain»
Domains::dRailroadClass
+ FieldType: esriFieldType = esriFieldTypeString
+ MergePolicy: esriMergePolicyType = esriMPTDefaultValue
+ SplitPolicy: esriSplitPolicyType = esriSPTDuplicate
«DomainCodedValue»
+ Class I = 1
+ Class II = 2
+ Class III = 3
+ Spur = S
notes
STB Railroad Class

«CodedValueDomain»
Domains::dTrackType
+ FieldType: esriFieldType = esriFieldTypeString
+ MergePolicy: esriMergePolicyType = esriMPTDefaultValue
+ SplitPolicy: esriSplitPolicyType = esriSPTDefaultValue
«DomainCodedValue»
+ Industry = I
+ Siding = S
+ Transit = T
+ Yard = Y
+ Main Centerline = M
notes
FRA Track Type

«CodedValueDomain»
Domains::dStructureType
+ FieldType: esriFieldType = esriFieldTypeString
+ MergePolicy: esriMergePolicyType = esriMPTDefaultValue
+ SplitPolicy: esriSplitPolicyType = esriSPTDefaultValue
«DomainCodedValue»
+ Structure is a bridge = BRIDGE
+ Structure is a culvert > 20 feet = CULVERT
+ Railroad Structure = RAIL
notes
StructureTypeDesc

«CodedValueDomain»
Domains::dStructureOrientation
+ FieldType: esriFieldType = esriFieldTypeString
+ MergePolicy: esriMergePolicyType = esriMPTDefaultValue
+ SplitPolicy: esriSplitPolicyType = esriSPTDefaultValue
«DomainCodedValue»
+ Route Runs on First of Multiple Bridges = Multiple First
+ Route Runs on Second of Multiple Bridges = Multiple Second
+ Route Runs on Third of Multiple Bridges = Multiple Third
+ Route Runs On Bridge = On
+ Route Runs Under the Bridge = Under
notes
StructureOrientationDesc

«CodedValueDomain»
dInOrNear
+ FieldType: esriFieldType = esriFieldTypeString
+ MergePolicy: esriMergePolicyType = esriMPTDefaultValue
+ SplitPolicy: esriSplitPolicyType = esriSPTDuplicate
«DomainCodedValue»
+ In = In
+ Near = Nr
notes
FRA Crossing Inventory Form part 1 item 4

«CodedValueDomain»
Domains::dYesNo
+ FieldType: esriFieldType = esriFieldTypeString
+ MergePolicy: esriMergePolicyType = esriMPTDefaultValue
+ SplitPolicy: esriSplitPolicyType = esriSPTDefaultValue
«DomainCodedValue»
+ No = N
+ Yes = Y
notes
Yes No as YN

Minimum Schema for ALRS

«Point»
Calibration_Point
«Field»
+ FromDate: esriFieldTypeDate
+ ToDate: esriFieldTypeDate
+ NetworkId: dLRSNetworks
+ RouteId: esriFieldTypeString
+ Measure: esriFieldTypeDouble

«Polyline»
Centerline
«Field»
+ CenterlineId: esriFieldTypeGUID

«Polyline»
Railroad_Network
«Field»
+ FromDate: esriFieldTypeDate
+ ToDate: esriFieldTypeDate
+ RouteId: esriFieldTypeString

«Polyline»
Redline
«Field»
+ FromMeasure: esriFieldTypeDouble
+ ToMeasure: esriFieldTypeDouble
+ RouteId: esriFieldTypeString
+ RouteName: esriFieldTypeString
+ EffectiveDate: esriFieldTypeDate
+ ActivityType: dActivityType
+ NetworkId: dLRSNetworks

«ObjectClass»
RailroadDatabase::Lrs_Event_Behavior
«Field»
+ LrsId: esriFieldTypeGUID
+ NetworkId: esriFieldTypeInteger
+ EventTableId: esriFieldTypeGUID
+ ActivityType: esriFieldTypeSmallInteger
+ BehaviorType: esriFieldTypeSmallInteger

«ObjectClass»
RailroadDatabase::Lrs_Metadata
«Field»
+ LrsId: esriFieldTypeGUID
+ Name: esriFieldTypeString
+ Description: esriFieldTypeString
+ Metadata: esriFieldTypeBlob

«ObjectClass»
RailroadDatabase::Centerline_Sequence
«Field»
+ FromDate: esriFieldTypeDate
+ ToDate: esriFieldTypeDate
+ NetworkId: dLRSNetworks
+ RouteId: esriFieldTypeString
+ CenterlineId: esriFieldTypeGUID

«ObjectClass»
RailroadDatabase::Lrs_Edit_Log
«Field»
+ TransactionId: esriFieldTypeGUID
+ TransactionDate: esriFieldTypeDate
+ UserName: esriFieldTypeString
+ ActivityType: esriFieldTypeSmallInteger
+ LrsId: esriFieldTypeGUID
+ NetworkId: esriFieldTypeInteger
+ RouteId: esriFieldTypeString
+ ToRouteId: esriFieldTypeString
+ FromDate: esriFieldTypeDate
+ ToDate: esriFieldTypeDate
+ EditData: esriFieldTypeBlob
+ Processed: esriFieldTypeSmallInteger
+ ProcessedTime: esriFieldTypeDate
+ ProcessedUser: esriFieldTypeString
+ ProcessedVersion: esriFieldTypeString

«ObjectClass»
RailroadDatabase::Lrs_Locks
«Field»
+ NetworkId: dLRSNetworks
+ RouteId: esriFieldTypeString
+ LockUser: esriFieldTypeString
+ LockVersion: esriFieldTypeString
+ LockDateTime: esriFieldTypeDate
+ EventFeatureClass: esriFieldTypeString

«Point»
ev_Stations
«Field»
+ FEATURE: esriFieldTypeString
+ PlaceName: esriFieldTypeString
+ Population: esriFieldTypeString
+ PopulationDate: esriFieldTypeInteger
+ COUNTY: esriFieldTypeString
+ FIPS: esriFieldTypeString
+ STATE: esriFieldTypeString
+ STFIPS: esriFieldTypeString
+ DataVersion: esriFieldTypeString

«Point»
ev_Structure
«Field»
+ StructureID: esriFieldTypeString
+ StructureOrientation: dStructureOrientation
+ StructureType: dStructureType

«Point»
ev_MilePost
«Field»
+ Railroad: esriFieldTypeString
+ Milepost: esriFieldTypeInteger
notes
Rail Milepost Point locations from FRA

AbstractPointEvent
«Field»
+ EventID: esriFieldTypeString
+ RouteID: esriFieldTypeString
+ FromDate: esriFieldTypeDate
+ ToDate: esriFieldTypeDate
+ Measure: esriFieldTypeDouble
+ LocationError: esriFieldTypeString
+ BusinessFromDate: esriFieldTypeDate
+ BusinessToDate: esriFieldTypeDate
+ DataSource: dSourceCit
+ ReferentMethod: esriFieldTypeSmallInteger
+ ReferentLocation: esriFieldTypeString
+ ReferentOffset: esriFieldTypeString
+ MapDisplay: esriFieldTypeString
+ Tangent: esriFieldTypeDouble
+ DOTLatitude: esriFieldTypeDouble
+ DOTLongitude: esriFieldTypeDouble
+ GlobalID: esriFieldTypeGlobalID
notes
All Events shall have these fields