

Enterprise Geodatabase Topology Rules



Boone County GIS

February 2017

Topology Name Core_Topology
Description Topological rules that maintain the spatial integrity of the Core Feature Dataset in the Enterprise Geodatabase.
Feature Dataset Core
ClusterTolerance 0.0004

Feature Class	Feature Class Rank	Number of Features
ABClicense	16	556
Address	11	67,143
DayCare	16	62
FireStation	16	16
FoodServiceLicense	16	2,641
HotelMotel	16	40
Library	16	6
MedicalCare	16	7
PlaceOfWorship	16	83
PoliceStation	16	5
PollingPlace	16	60
SchoolBuilding	16	37
SeniorCenter	16	3
AdminLine	6	1,743
Centerline	4	6,120
HydrographyLine	5	34,594
Pathway	15	79,245
Railroad	14	88
ScenicHighway	17	6
Building	7	72,057
CountyBoundary	1	6
ExteriorFeature	8	96,868
HydrographyPoly	13	4,123
Parcel	2	57,847
Park	12	42
Pavement	9	9,847
RecreationFeature	10	1,160
Subdivision	3	811

Topology Rules

Origin Class	OriginSubtype	RuleType	Destination Class	Destination Subtype	Rule ID
AdminLine		LineNoOverlap	AdminLine		1
Centerline		LineNoOverlap	Centerline		2
HydrographyLine		LineNoOverlap	HydrographyLine		3
Pathway		LineNoOverlap	Pathway		4
AdminLine		LineNoSelfOverlap	AdminLine		5
Centerline		LineNoSelfOverlap	Centerline		6

Topology Rules

Origin Class	OriginSubtype	RuleType	Destination Class	Destination Subtype	Rule ID
HydrographyLine		LineNoSelfOverlap	HydrographyLine		7
Pathway		LineNoSelfOverlap	Pathway		8
AdminLine		LineNoSelfIntersect	AdminLine		9
Centerline		LineNoSelfIntersect	Centerline		10
HydrographyLine		LineNoSelfIntersect	HydrographyLine		11
Pathway		LineNoSelfIntersect	Pathway		12
AdminLine		LineNoMultipart	AdminLine		13
Centerline		LineNoMultipart	Centerline		14
HydrographyLine		LineNoMultipart	HydrographyLine		15
Pathway		LineNoMultipart	Pathway		16
AdminLine		LineNoIntersectOrInteriorTouch	AdminLine		17
Centerline		LineNoIntersectOrInteriorTouch	Centerline		18
HydrographyLine		LineNoIntersectOrInteriorTouch	HydrographyLine		19
Pathway		LineNoIntersectOrInteriorTouch	Pathway		20
AdminLine		LineNoDangles	AdminLine		21
Building		AreaNoOverlap	Building		22
CountyBoundary		AreaNoOverlap	CountyBoundary		23
ExteriorFeature		AreaNoOverlap	ExteriorFeature		24
HydrographyPoly		AreaNoOverlap	HydrographyPoly		25
Parcel		AreaNoOverlap	Parcel		26
Park		AreaNoOverlap	Park		27
Pavement		AreaNoOverlap	Pavement		28
RecreationFeature		AreaNoOverlap	RecreationFeature		29
Subdivision		AreaNoOverlap	Subdivision		30
CountyBoundary		AreaNoGaps	CountyBoundary		31
Parcel		AreaNoGaps	Parcel		32
Building		AreaNoOverlapArea	ExteriorFeature		33
Building		AreaNoOverlapArea	Pavement		34
Building		AreaNoOverlapArea	RecreationFeature		35
ExteriorFeature		AreaNoOverlapArea	Pavement		36
ExteriorFeature		AreaNoOverlapArea	RecreationFeature		37
HydrographyPoly		AreaNoOverlapArea	Building		38
HydrographyPoly		AreaNoOverlapArea	ExteriorFeature	Deck	39
HydrographyPoly		AreaNoOverlapArea	ExteriorFeature	Patio	40
HydrographyPoly		AreaNoOverlapArea	ExteriorFeature	Pool Awning	41
HydrographyPoly		AreaNoOverlapArea	ExteriorFeature	Swimming Pool	42
HydrographyPoly		AreaNoOverlapArea	Pavement	Crosswalk	43
HydrographyPoly		AreaNoOverlapArea	Pavement	Parking Lot	44
HydrographyPoly		AreaNoOverlapArea	RecreationFeature		46
Pavement		AreaNoOverlapArea	RecreationFeature		47
Subdivision	Commercial	AreaNoOverlapArea	Parcel	Condominium	48

Topology Rules

Origin Class	OriginSubtype	RuleType	Destination Class	Destination Subtype	Rule ID
Subdivision	Commercial	AreaNoOverlapArea	Parcel	Mobile Home Park	49
Subdivision	Commercial	AreaNoOverlapArea	Parcel	Multi Family	50
Subdivision	Commercial	AreaNoOverlapArea	Parcel	Single Family	51
Subdivision	Mobile Home Park	AreaNoOverlapArea	Parcel	Commercial	52
Subdivision	Mobile Home Park	AreaNoOverlapArea	Parcel	Condominium	53
Subdivision	Mobile Home Park	AreaNoOverlapArea	Parcel	Industrial	54
Subdivision	Mobile Home Park	AreaNoOverlapArea	Parcel	Multi Family	55
Subdivision	Mobile Home Park	AreaNoOverlapArea	Parcel	Single Family	56
Subdivision	Multi Family	AreaNoOverlapArea	Parcel	Commercial	57
Subdivision	Multi Family	AreaNoOverlapArea	Parcel	Industrial	58
Subdivision	Multi Family	AreaNoOverlapArea	Parcel	Mobile Home Park	59
Subdivision	Single Family	AreaNoOverlapArea	Parcel	Commercial	60
Subdivision	Single Family	AreaNoOverlapArea	Parcel	Industrial	61
Subdivision	Single Family	AreaNoOverlapArea	Parcel	Mobile Home Park	62
Park		AreaBoundaryCoveredByAreaBoundary	Parcel		63
Address		PointDisjoint	Address		64
Address	Driveway Entry	PointCoveredByAreaBoundary	Parcel		65
Address	Addressed Building	PointProperlyInsideArea	Building	Addressed Structure	66
Address	Addressed Building	PointProperlyInsideArea	Parcel		67
Address	Driveway Entry	PointProperlyInsideArea	ExteriorFeature	Driveway	68
Address	Unaddressed Building	PointProperlyInsideArea	Building	Unaddressed Structure	69
Address	Unaddressed Building	PointProperlyInsideArea	Parcel		70
Address	Undeveloped Parcel	PointProperlyInsideArea	Parcel		71
Building	Addressed Structure	AreaContainOnePoint	Address	Addressed Building	72
Parcel	Acreage	AreaContainPoint	Address		73
Parcel	Commercial	AreaContainPoint	Address		74
Parcel	Community	AreaContainPoint	Address		75
Parcel	Condominium	AreaContainPoint	Address		76
Parcel	Industrial	AreaContainPoint	Address		77
Parcel	Mobile Home Park	AreaContainPoint	Address		78
Parcel	Multi Family	AreaContainPoint	Address		79
Parcel	Single Family	AreaContainPoint	Address		80
Parcel	Temporary	AreaContainPoint	Address		81
Parcel	Unknown	AreaContainPoint	Address		82
Park		AreaContainPoint	Address	Addressed Building	83
AdminLine	Hydro Centerline	LineCoveredByLineClass	HydrographyLine		84
AdminLine	Street Centerline	LineCoveredByLineClass	Centerline		85
ScenicHighway		LineCoveredByLineClass	Centerline		86
Pathway	Inferred (Driveway)	LineNoIntersectLine	Centerline		87
Pathway	Inferred (Parking Lot)	LineNoIntersectLine	Centerline		88
Pathway	Non-Residential	LineNoIntersectLine	Centerline		89

Topology Rules

Origin Class	OriginSubtype	RuleType	Destination Class	Destination Subtype	Rule ID
Pathway	Recreational (Paved)	LineNoIntersectLine	Centerline		90
Pathway	Recreational (Unpaved)	LineNoIntersectLine	Centerline		91
Pathway	Residential	LineNoIntersectLine	Centerline		92
AdminLine	County Boundary	LineCoveredByAreaBoundary	CountyBoundary		93
AdminLine	Edge of Road Pavement	LineCoveredByAreaBoundary	Pavement		94
AdminLine	Parcel Boundary	LineCoveredByAreaBoundary	Parcel		95
AdminLine	Subdivision Boundary	LineCoveredByAreaBoundary	Subdivision		96
Pathway	Crosswalk	LineInsideArea	Pavement	Crosswalk	97
Pathway	Inferred (Driveway)	LineInsideArea	ExteriorFeature	Driveway	98
Pathway	Inferred (Parking Lot)	LineInsideArea	Pavement	Parking Lot	99
Pathway	Non-Residential	LineInsideArea	ExteriorFeature	Sidewalk	100
Pathway	Recreational (Paved)	LineInsideArea	ExteriorFeature	Walking Trail	101
Pathway	Recreational (Unpaved)	LineInsideArea	ExteriorFeature	Walking Trail	102
Pathway	Residential	LineInsideArea	ExteriorFeature	Sidewalk	103
ABCLicense		PointCoincidePoint	Address	Addressed Building	105
DayCare		PointCoincidePoint	Address	Addressed Building	106
FireStation		PointCoincidePoint	Address	Addressed Building	107
FoodServiceLicense		PointCoincidePoint	Address	Addressed Building	108
HotelMotel		PointCoincidePoint	Address	Addressed Building	109
Library		PointCoincidePoint	Address	Addressed Building	110
MedicalCare		PointCoincidePoint	Address	Addressed Building	111
PlaceOfWorship		PointCoincidePoint	Address	Addressed Building	112
PoliceStation		PointCoincidePoint	Address	Addressed Building	113
PollingPlace		PointCoincidePoint	Address	Addressed Building	114
SchoolBuilding		PointCoincidePoint	Address	Addressed Building	115
SeniorCenter		PointCoincidePoint	Address	Addressed Building	116
Pathway	Within Roadway	LineInsideArea	Pavement	Roadway (ROW)	117
HydrographyPoly		AreaNoOverlapArea	Pavement	Roadway (ROW)	118
HydrographyPoly		AreaNoOverlapArea	Pavement	Roadway (non-ROW)	119