

Description of the 2008 Relationship Tables

The All Lines shapefile (edges.shp) contains the geometry and attributes of each topological primitive edge. Each edge has a unique TLID (TIGER/Line Identifier) value. The left and right faces for an edge can be determined by linking on the TFIDL (left) or TFIDR (right) attribute to the TFID attribute in the Topological Faces relationship table (faces.dbf).

The Address Ranges relationship table (addr.dbf) contains the attributes of each address range. Each address range has a unique ARID value. The edge to which an address range applies can be determined by linking to the edges shapefile on the TLID attribute. Multiple address ranges can apply to the same edge (an edge can have multiple address ranges).

The Address Range-Feature Name relationship table (addrfn.dbf) contains a record for each address range-linear feature name relationship. The purpose of this relationship file is to identify all street names associated with each address range. An edge can have several feature names; an address range located on an edge can be associated with one or any combination of the available feature names (an address range can have multiple feature names). The address range is identified by the ARID attribute, which can be used to link to the Address Ranges relationship table. The linear feature name is identified by the LINEARID attribute that relates the address range back to the featnames.dbf table.

The Feature Names relationship table (featnames.dbf) contains a record for each feature name-edge combination, and includes the feature name attributes. The edge to which a Feature Names relationship table record applies can be determined by linking to the All Lines shapefile on the TLID attribute. Multiple Feature Names relationship table records can link to the same edge, for example, a road edge could link to US Hwy 22 and Rathburn Road. The linear feature to which the feature name applies is identified by the LINEARID attribute. Multiple feature names may exist for the same edge (linear features are not included in the data set, but could be constructed using the All Lines shapefile and the relationship tables).

The Topological Faces relationship table contains the attributes of each topological primitive face. Each face has a unique TFID value. The face geometries can be built from the All Lines shapefile using the edges' left and right face relationships. The geometries of each geographic entity can then be built by dissolving the face geometries on the appropriate attribute(s) in the Topological Faces relationship table.

The Area Landmark shapefile (arealm.shp) contains the geometry and attributes of each area landmark. Each area landmark has a unique AREAID value.

The Topological Faces-Area Landmark relationship table (facesal.dbf) contains a record for each face-area landmark relationship. The face to which a Topological Faces-Area Landmark relationship table record applies can be determined by linking to the Topological Faces relationship table on the TFID attribute. The area landmark to which a

Topological Faces-Area Landmark relationship table record applies can de determined by linking to the Area Landmark shapefile on the AREAID attribute. A face may be part of multiple area landmarks. An area landmark may consist of multiple faces.

The Area Hydrography shapefile contains the geometry and attributes of each area hydrography feature. Each area hydrography feature has a unique HYDROID value.

The Topological Faces-Area Hydrography relationship table contains a record for each face-area hydrography feature relationship. The face to which a Topological Faces-Area Hydrography relationship table record applies can be determined by linking to the Topological Faces table on the TFID attribute. The area hydrography feature to which a Topological Faces-Area Hydrography relationship table record applies can be determined by linking to the Area Hydrography shapefile on the HYDROID attribute. A face may be part of multiple area water features. An area water feature may consist of multiple faces.

The Other Identifiers relationship table contains external identifier codes, such as National Hydrographic Dataset (NHD) codes and individual county identifiers. The edge to which an Other Identifiers relationship table record applies can be determined by linking to the All Lines shapefile on the TLID attribute. Not every TLID has an external identifier associated with it, and some TLIDs may have more than one.

TIGER/Line Shapefiles Relationship Tables

edges.shp	
PK	<u>tlid</u>
	statefp
	countyfp
	tfidl
	tfidr
	mtfcc
	fullname
	smid
	lfromadd
	ltoadd
	rfromadd
	rtoadd
	zipl
	zipr
	featcat
	hydroflg
	railflg
	roadflg
	offflg
	passflg
	divroad
	exttyp
	ttyp
	deckedroad
	artpath
	persist
	gcseflg
	offsetl
	offsetr
	tnidf
	tnidr

faces.dbf	
PK	<u>tfid</u>
	statefp00
	countyfp00
	tractce00
	blkgrpce00
	blockce00
	suffix1ce
	cousubfp00
	submcdfp00
	conctyfp00
	placefp00
	aiannhce00
	comptyp00
	trsubce00
	ttractce00
	anrcfp00
	elsdlea00
	scsdlea00
	unsdlea00
	uace00
	uace
	sldust00
	sldlst00
	vtdst00
	tazce00
	ugace00
	puma1ce00
	puma5ce00
	zcta5ce00
	zcta3ce00
	statefp
	countyfp
	cousubfp
	submcdfp
	conctyfp
	placefp
	aiannhce
	comptyp
	anrcfp
	trsubce
	cd108fp
	cd110fp
	sldust
	sldlst
	csafp
	cbsafp
	metdivfp
	cnectafp
	nectafp
	nctadvfp
	elsdlea
	scsdlea
	unsdlea
	ugace
	zcta5ce
	zcta3ce
	statefpec
	countyfpec
	conctyfpec
	placefpec
	comrgceec
	lwflag
	offset

facesal.dbf	
PK	<u>tfid</u>
PK	<u>areaid</u>

areaid: foreign key

arealm.shp	
PK	<u>areaid</u>
	statefp
	countyfp
	ansicode
	fullname
	mtfcc

facesah.dbf	
PK	<u>tfid</u>
PK	<u>hydroid</u>

hydroid: foreign key

areawater.shp	
PK	<u>hydroid</u>
	statefp
	countyfp
	ansicode
	fullname
	mtfcc

tfidl: key to tfid of Left Face

tfidr: key to tfid of Right Face

tlid: foreign key

otherid.dbf	
PK	<u>tlid</u>
	extid
	extidtyp

tlid: foreign key

addr.dbf	
PK	<u>arid</u>
	tlid
	fromhn
	tohn
	side
	zip
	plus4
	fromtyp
	totyp
	fromarmid
	toarmid
	mtfcc

arid: foreign key

addrfn.dbf	
PK	<u>arid</u>
PK	<u>linearid</u>

linearid: key

{linear features}	
PK	<u>linearid</u>

linearid: key

tlid: foreign key

featnames.dbf	
PK	<u>tlid</u>
PK	<u>linearid</u>
	fullname
	name
	predirabr
	pretypabr
	prequalabr
	sufdirabr
	suftypabr
	sufqualabr
	predir
	pretyp
	prequal
	sufdir
	suftyp
	sufqual
	mtfcc
	paflag