## GIS MUNICIPAL BOUNDARY SCHEMA

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For:

Athens-Limestone County GIS Consortium

# **WORKING DRAFT**

**GIS Municipal Boundary Schema** 

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#### **Purpose**

This is a method to coordinate the transfer of municipal limits among various GIS Data Users. There are many reasons for a municipality to have accurate municipal limits. Accurate boundaries aid administration of business licenses, census, emergency response districts, school districting, property subdivision, property taxes, sales taxes, voting, and zoning. Other service boundaries may coincide with municipal boundaries.

Accurate boundaries reduce confusion and allow users to make better decisions based on timely and accurate boundaries.

One schema allows the interchange of municipal limits to occur in a uniform manner.

This is an amalgamation of the ESRI Local Government Information Model (LGIM) and other influences.

Column Name	Data Type	Maximum Width	Description		
Name	Text	50	Short Name of Municipality		
ProperName	Text	50	Longer Name of Boundary		
Municipal Type	Text	10	Municipal Type. Domain MunicipalType: City or		
(MUNITYP)			Town		
GNIS	Long	4 Bytes	Geographic Names Information System		
	Integer	(10 digit no.)	Identifier. Unique ID for municipality. See		
			Reference section. Use GNIS "Civil" feature		
			class.		
Local FIPS	Text	5	ANSI Federal Information Processing Series		
(LOCALFIPS)			(FIPS) Codes. See <u>Reference</u> section		
Last Update Date	Date		Date that the feature was last updated.		
(LASTUPDATE)					
	OPTIONAL – Everything below this line is optional				
ChangeDesc	Text	254	Description of last changes. What has changed		
			since last time? It can be due to a legal reason		
			(annexation or deannexation) or a refinement of		
			the existing boundaries (Redrew the boundary to		
			reflect better mapping.) Can be NULL.		
Area in Square	Double /		Square Miles contained in Limits as calculate		
Miles (MUNIAREA)	Numeric		with GIS Software. Can be NULL or zero.		
Source	Text	100	Where does the data come from? What agency		
			has the data that fed this? Can be NULL.		
SrcURL	Text	254	If the source data can be downloaded from a		
			particular webpage. Can be NULL.		

#### **Table Schema**

Notes:

GIS Municipal Boundary Schema

- For all text attributes, Proper Case (versus UPPER CASE) is preferable, but not required.
- The Data Type of Text does not distinguish between fixed with or variable width fields.

#### **GIS Data**

Any municipal limits shall consist of one row. This can be accomplished by merging multiple rows for a city limits during editing. Without regard if a portion of the municipal limits is disjoined from the rest of the municipal limits.

Field	Value
LOCALFIPS	02956
LASTUPDATE	8/27/2013
ChangeDesc	Added Annexation 2013-1893
Municipal Type	City
GNIS	2403123
Name	Athens
ProperName	City of Athens
Source	City of Athens, Engineering Services & Community Development Dept.
MUNIAREA	39.8904
SrcURL	http://athensalabama.us/gis-information

#### Schema Table Example

### **Old Names**

Names given to fields before 5/26/2015, before amalgamating this with the ESRI LGIM.

New Name	Old Name
Municipal Type (MUNITYP)	Class
MUNIAREA	SQ_Miles
Local FIPS (LOCALFIPS)	CensusCode
LASTUPDATE	Merging of ChangeDate & ExportDate

#### WORKING DRAFT

#### Reference

Census Code "FIPS" Reference. <u>http://www.census.gov/geo/reference/ansi.html</u>

Geographic Names Information System (GNIS) Identifier. <u>http://geonames.usgs.gov/domestic/</u>

#### **Inspirational Material**

Oregon Administrative Boundary Standard. Version 2.0. July 2008. http://www.oregon.gov/DAS/CIO/GEO/docs/adminbounds/administrative\_boundaries\_std\_2\_final.pdf

NENA Standard Data Formats for 9-1-1 Data Exchange & GIS Mapping (NENA-02-010), Version 9. Approved 28, 2011. "1.4 C Municipal Boundary Layer" Page 99. <u>https://www.nena.org/?page=DataFormats</u>

ESRI's Local Government Information Model. version 10.3. <u>http://solutions.arcgis.com/local-government/help/local-government-information-model/</u>