

Carlsbad 9-1-1/GIS Training

November 13, 2007

MSAG Basics for
911Net Training



Accurate 9-1-1 Call Mapping
depends on

Synchronized Databases



The Databases

- MSAG
- ALI
- GIS Road Centerlines
(and other layers)



The MSAG

The MSAG is the controlling document
in an E9-1-1 Application

It is a database containing the **name, address range, community designation, ESN assignment** and other data for each portion of each road in a PSAP's response area.



An MSAG Extract

<i>DI STREET</i>	<i>LOW</i>	<i>HIGH</i>	<i>COMMUNITY</i>	<i>ST</i>	<i>O_E</i>	<i>ESN</i>	<i>ID911</i>	<i>LMODIFY</i>
S ROSELAWN AVE	10	1450	ARTESIA	NM		090	ART	010704
BOOGER LANGSTON SQUARE LAKE RD	1	756	LOCO HILLS	NM		570	ART	011303
DON LEWIS DR	1	699	LOCO HILLS	NM		570	ART	011303
W MAIN ST	1400	1817	ARTESIA	NM		301	ART	020204
MYLAND LN	4011	4011	ARTESIA	NM		090	ART	020204
MYVIEW PL	0	96	ARTESIA	NM		234	ART	021204
ROCKY RIVER RD	0	84	ARTESIA	NM		234	ART	021204
WINDY RIDGE RD	0	220	ARTESIA	NM		234	ART	021204
	0	220	ARTESIA	NM		234	ART	021204



ALI

Automatic Location Identification

The ALI Database contains records of each landline phone number in the PSAP's response area that has been successfully paired with an MSAG-valid 9-1-1 address. The ALI data displayed when a resident dials 9-1-1 includes name, 9-1-1 address, MSAG community and ESN/emergency responders.

Each local phone company's customer service records are loaded into the ALI database after being validated against the MSAG.



ALI

Automatic Location Identification

<206> 555-1234 RESD 10:35 05/14

JOHN I SMITH

1600

MAIN ST

SEATTLE

ESN-217 PILOT-555-1234

POLICE

SEATTLE PD

FIRE

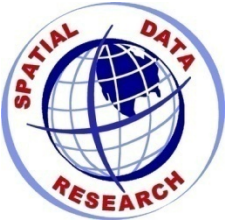
SEATTLE FD



ALI

Portion of an ALI Extract

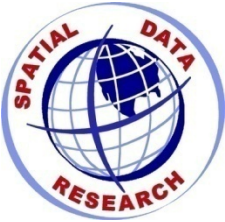
TN	NAME	#	D STREET	COMMUNITY	LOC	TELCO	ESN	UPDATED
505xxxxxxx	MASCARENAS, STAN	1	E HONDO VISTA RD	SANTA FE	S OF SANTA FE	USWC	271	11/13/2000
505xxxxxxx	MASCARENAS, STAN	1	E HONDO VISTA RD	SANTA FE		USWC	271	11/13/2000
505xxxxxxx	DANIELS, BRET	1	N CHAPARRAL	SANTA FE		USWC	268	2/11/2002
505xxxxxxx	ABRAHAMSON, NEAL&DEBRA	1	CAMINO VENTURA	SANTA FE		USWC	269	11/7/2003
505xxxxxxx	ADAM, KENNETH	1	FRASCO TERR	SANTA FE		USWC	274	8/17/2002
505xxxxxxx	ADAMS, A L & K S QUINN	1	TORNEO RD	SANTA FE		USWC	274	8/1/2000
505xxxxxxx	ADINOLFI, R & D	1	PLACITA DALINDA	RANCHO VIEJO		USWC	271	9/19/2003
505xxxxxxx	AGUILAR, IVAN	1	DOVELA CT	SANTA FE		USWC	274	1/30/2003
505xxxxxxx	AGUILERIA, KRISTIN & ALEX	1	SUNNYDALE RD	EDGEWOOD		USWC	278	1/28/2004
505xxxxxxx	AGUIRRE, A L	1	MONTE ALTO WY	SANTA FE		USWC	274	12/15/2001
505xxxxxxx	AIR CONDITIONING & HEATIN	1	CROUCH CT	SANTA FE		USWC	268	7/11/2000



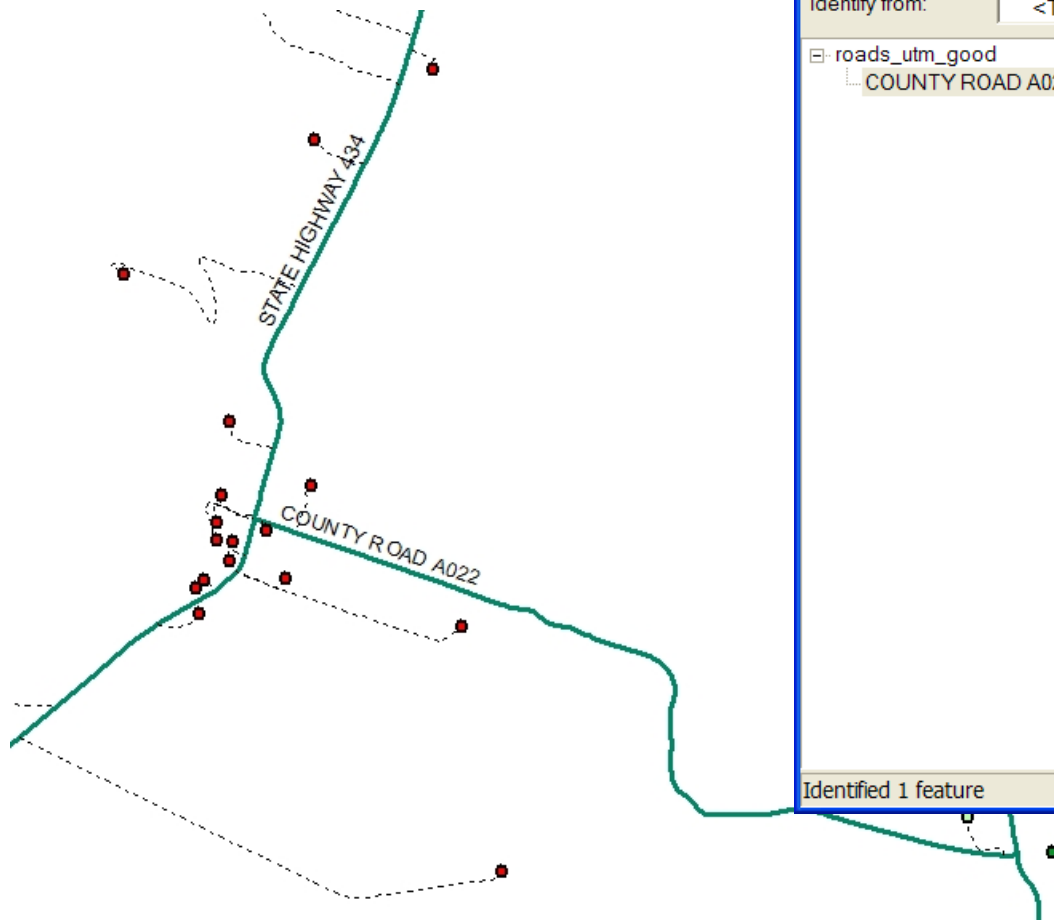
GIS

The key GIS database is the **road centerline** (RCL).

The spatial elements of this database are paired with attribute data describing the road name, address range, community, ESN and classification.



GIS



i Identify [?] [X]

Identify from: <Top-most layer>

roads_utm_good
 COUNTY ROAD A022

Location: 478,233.006 3,992,682.2

Field	Value
ALIAS	SHORT CUT RD
LEFT_FROM	1
RIGHT_FROM	2
LEFT_TO	141
RIGHT_TO	140
ESN	433
TELCO	MORA
COMM	HOLDEN
RECORDID	241
STATE	NM
CNTYID	MOR
RDNAME	COUNTY ROAD A022
DATE_MOD	8/8/2007
ASIAUSER	BTM
length_ft	7405.859902
Date_New	11/3/2006
Lanes	2
Surface	GRAVEL
Speed	45
Shoulder	NONE
Width	0
Classifi	COUNTY ROAD
MapLabel	A022
Comment ID	1675

Identified 1 feature



Database Synchronization

The MSAG and ALI database are, by definition, synchronized.

The GIS road centerlines (RCL) and MSAG are synchronized when all naming and ranging elements exactly agree.



Not Synchronized

MSAG

Calle Hermosa

N 1st St

County Road A022

Highway 528 N

Jersey Ln

GIS

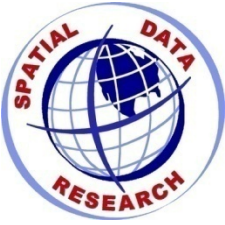
Hermosa St

N First St

CR A022

N Highway 528

Jersey La



MSAG Updates through 911Net To Synchronize Databases

- Prefixes
- Suffixes
- Spelling
- Abbreviations
- Postal Standards