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NG911 Outline

- 1. 9-1-1 Game changers
- 2. How 9-1-1 location lookup works
- 3. New standards
- 4. Address workgroup
- 5. Address point examples
- 6. State-wide address point build
- 7. What you can expect from us

9-1-1 Game Changers

- More than voice (audio)
 - Text
 - Email
 - Image
 - Video
- Systems are IP based (think Internet)
- IP Security
- Phones move
- Geographic Information System (GIS)
 at the core



Phone Number Automatic Number Identification (ANI)



Add Street Address Automatic Location Identifier (ALI)



Add Emergency Service Zone Master Street Address Guide (MSAG)



Look up Police, Fire, EMS Emergency Service Provider Lookup Table

Current Land Line

Tabular look-up



Phone Number or email, text, video

and X, Y (no Address)

Next Generation Mobile Phone Device



Add Street Address

NYS Aadress Point File

OCS



Point in Polygon Police, Fire, EMS GIS Service Zones

FCC – Location of Mobile Calls

Issued in 2007 – by Sep 11, 2012

Network-base technology (no GPS)

- +- 300 meters 95% of calls
- +- 100 meter 67% of calls
- ➤GPS base technology
 - +- 100 meters 95% of calls
 - +- 50 meter 67% of calls
- <u>Issued in 2010</u>

Accuracy percentages within PSAP (call center) areas- (think County)

• 15% of PSAP area can be exempted





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No GPS 95% of calls +- 300 Meters

CONTRACTOR OF THE OWNER

2000

No GPS 67% of calls +- 100 Meters

AND THE THE MENT

ALLANDER DE LA RECENTANTA

With GPS 95% of calls +- 100 Meters

AND DEPENDENCE STREET

AND DESCRIPTION OF

AND ADDREED

64.3

ALCO A

With GPS 67% of calls +- 50 Meters

AND THE THE AND A SECTION

50.3

AND DE LANDER

EAA

Federal Geographic Data Committee (FGDC) Address Data Standard

- United States Thoroughfare, Landmark and Postal Address Data Standard
- FGDC endorsed on February 9, 2011
- Jointly developed by URISA & NENA
- Available at:

www.fgdc.gov/standards/projects

Or

www.urisa.org

Parsing	g Exan	nples	
105 Old North Main Street			
	FGDC	<u>NENA</u>	
AddressNumberPrefix			
AddressNumber	105	105	
AddressNumberSuffix			
PreModifier	Old	Old	
PreDirectional	North	Ν	
PreType			
SeparatorElement			
StreetName	Main	Main	
PostType	Street	St	
PostDirectional			
PostModifier			

Workgroup

Create specifications for a statewide authoritative address point database to support next-generation 9-1-1 and other purposes









Sub-address Representation

- 123 Main Street, Apartment 101
- U.S. Dept. of Agriculture Building, Floor 7, Room 324
- 800 West Mountain Road, Building 6, Suite 450
- Suburban Office Park, Building 12, Mezzanine, Suite 200
- Five-Star Hotel, East Tower, Penthouse
- General Hospital, Cardiac Wing, Room 224
- Metro Airport, Terminal A, Gate C27
- Batavia Downs, Barn 12

Duplex 10A Limerick Ave & 10B Limerick Ave

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+

Historic Home Split into Apartments 56 Union Ave & 56-Side, 56-Rear

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Apartment Building 64 Robert Dr Apt 1, Apt 2, Apt 3, etc.

Identify fron	NYSAddressPoints
😑 Niagara/	AddrPoints
🖻 64 R	obert Dr
ė-:	5ubUnitAddresses\$
	- Apartment 1
	Apartment 2
	Apartment 3
	Apartment 4
	Apartment 5
	Apartment 6

z

Apartment Building Complex 70 Mc Carty Ave Building 1, Apt 1; Building 2, Apt 4; etc.

277

intv Ave

Rear 74 Mccarty

-

Trailer Park 2941 Amsterdam Rd, Lot 1, Lot2, Lot 3, etc.

AMSTERDAM RO

DAM RD

STERDAN RD

1/6 AL DI UDPORTAL E AL





State-wide Address Point Build

- OCS has addresses in every county
- OCS will continue to host, maintain and serve address points
- 9-1-1 authorities
 - Provide better address points if they exist
 - Add missing points
 - Refine locations
 - Establish sub-addresses
 - Feed changes

What you can expect from us

GIS

- Mapping expertise
 - GIS Standards
 - Geocoding
- GIS coordination
 - Data Sharing Cooperative
 - GIS Clearinghouse
 - GIS Help Desk
- Orthoimagery
- CIRIS
- Web services
- Streets & Address Point data
- Help maintaining address points

What you can expect from us

Cyber Security

- Advisories
- White papers & webcasts
- Templates for policies & procedures
- Technical assistance
- Web defacement monitoring
- Managed security services (for a fee)
- Training
 - End user training video
 - Business Manager training video
 - Computer based training modules

Funding

- GIS data development

 Local share priority project
- 9-1-1 funding
- Census interested in putting resources into a pilot