What Does Statewide GIS Data for NG911 Geo-Routing Look Like?

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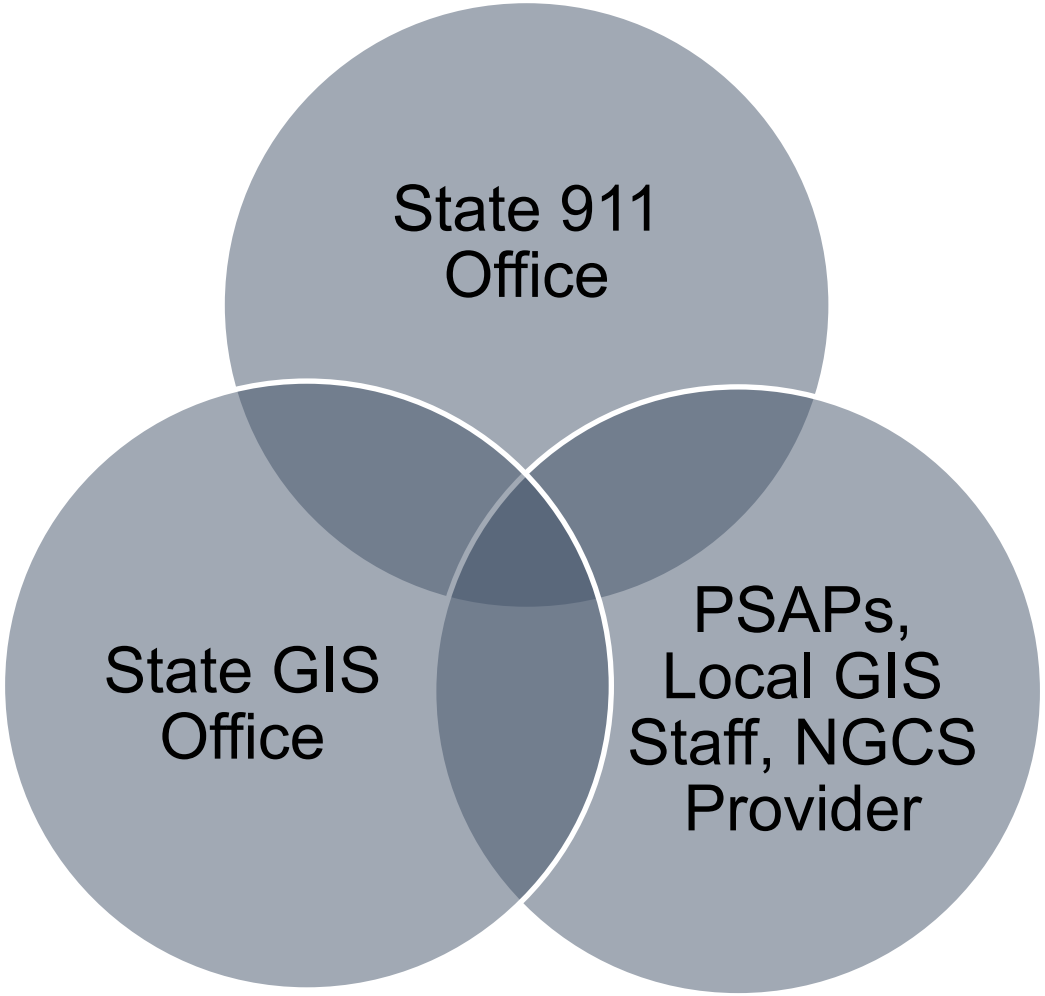
DTMB State GIS Office
Geographic Information Officer

September 15, 2026

Questions to Cover Today

- What data is in the NG911 GIS Repository and what are benefits of a statewide repository?
- What role does the NG911 GIS Repository play in geo-routing?
- Where is Michigan in GIS readiness for geo-routing?
- What happens to my MSAG/ALI in NG911?
- Locations from Originating Service Providers – validations and discrepancy reporting
- What else?
- Next steps for GIS and 911 across Michigan

Roadmap to NG911 GIS Readiness



Roadmap to NG911 GIS Readiness

NENA Standard for NG9-1-1 GIS Data Model

Abstract: This document defines the Geographic Information System (GIS) data information, structure, requirements, and related information used in NENA Next Generation 9-1-1 (NG9-1-1) Core Services (NGCS).

NENA Standard for NG9-1-1 GIS Data Model

NENA-STA-006.3-2026
DSC Approval: February 3, 2026
PRC Approval: February 19, 2026
NENA Board of Directors Approval: March 11, 2026
ANSI Approval: June 9, 2026
Next Scheduled Review Date: March 11, 2029

Prepared by:
National Emergency Number Association (NENA) Data Structures & Management Committee, NG9-1-1 GIS Data Model Working Group

NENA GIS Data Transition Information Document

Abstract: This document provides guidance to aid in the transition of GIS data from the absences of GIS data to support 9-1-1 to NG9-1-1.

NENA GIS Data Transition Information Document

NENA-INF-046.1-2024
DSC Approval: August 13, 2024
PRC Approval: August 24, 2024
NENA Board of Directors Approval: September 23, 2024
Next Scheduled Review Date: September 23, 2029

Prepared by:
National Emergency Number Association (NENA) Data Structures & Management Committee, GIS Data Transition Working Group

NENA Information Document for GIS Data Stewardship for Next Generation 9-1-1 (NG9-1-1)

Abstract: This document provides guidance to aid the development of complete, accurate, and current GIS data layers to be used within NG9-1-1 systems.

NENA Information Document for GIS Data Stewardship for Next Generation 9-1-1 (NG9-1-1)

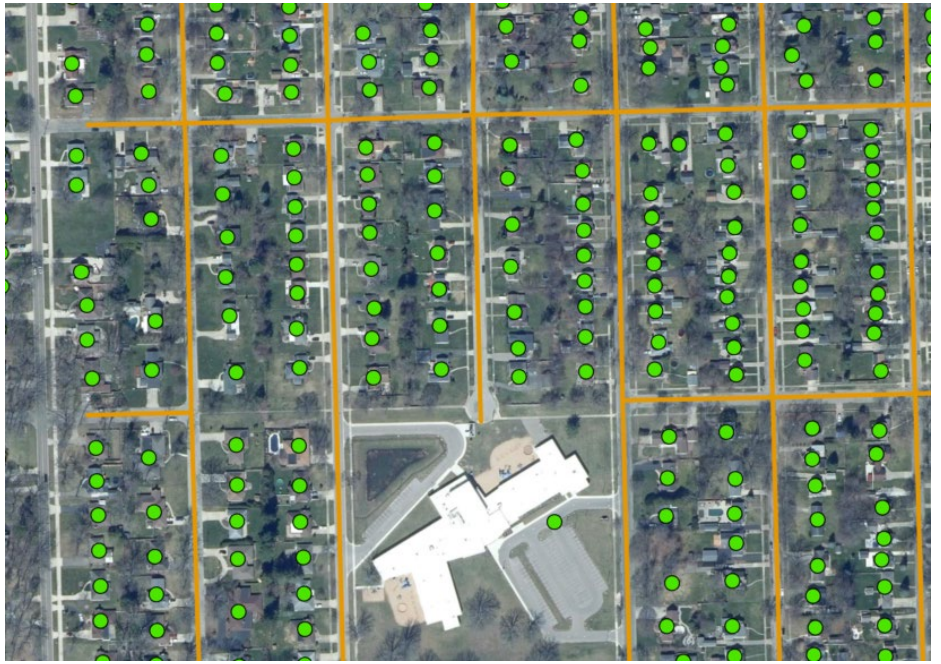
NENA-INF-028.2-2023
DSC Approval: July 11, 2023
PRC Approval: July 31, 2023
NENA Board of Directors Approval: September 20, 2023
Next Scheduled Review Date: September 20, 2028

Prepared by:
National Emergency Number Association (NENA) Data Structures & Management Committee, GIS Data Stewardship Working Group

GIS Data for NG911 Geo-Routing

What data is in the NG911 GIS Repository and what are benefits of a statewide repository?

What GIS Data Layers?



- Site Structure Address Points
  - Point location with house numbers, street name, municipality, sub-address
  - Maintained and provided to repository by local GIS
- Road Centerlines
  - Road segment with address ranges, street name, municipality info
  - Maintained and provided to repository by local GIS
- PSAP Boundaries
  - PSAP response area boundary
  - Is aggregated into a statewide layer and maintained by DTMB State GIS Office via update requests from local GIS/911
- Emergency Response Boundaries (Fire, EMS, Police)
  - Response area boundary and responder names
  - Will be aggregated into a statewide layer and maintained by DTMB via update requests from local GIS/911
- County, City, Township and Village Boundaries
  - Managed and maintained by DTMB State GIS Office
- Provisioning Boundaries
  - Managed and maintained by DTMB State GIS Office

NG911 Statewide GIS Repository Benefits?

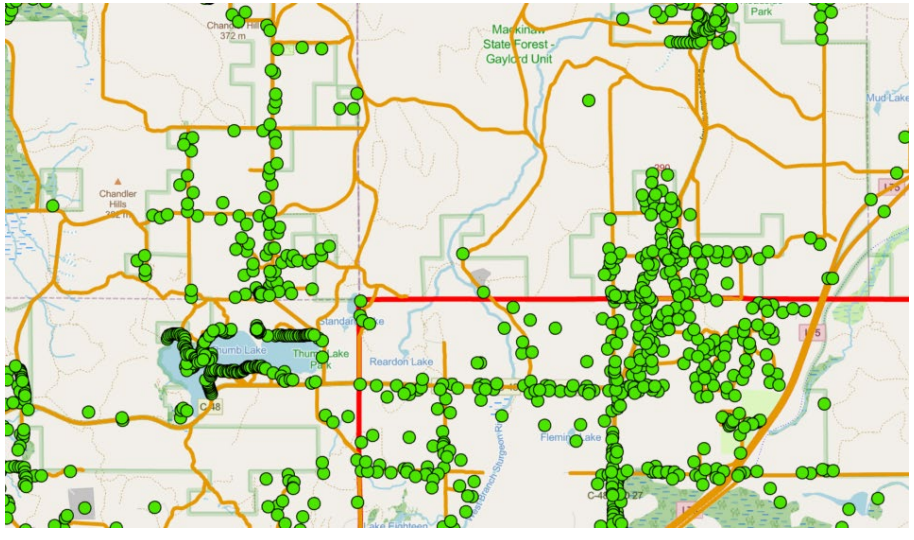
- **All GIS data across the state is using same NENA standard validations**
  - Cost savings for counties/PSAPs to not have to purchase or build validation tools
  - System will be updated when new NENA standards are released
- **One interface for NG911 Core Services Provider to receive GIS data**
  - Cost savings for counties/PSAPs – don't have to create own workflow interface to provide data for ECRF/LVF
- **Validations can be run on statewide GIS data**
- **GIS data as standardized statewide datasets improves interoperability**
  - Can be exported by PSAPs to leverage in CAD systems
  - Can be leveraged by other 911 systems as statewide map services
- **Available as statewide data during cross-border emergency response**
- **Backup of GIS data during emergencies**

GIS Data for NG911 Geo-Routing

What role does the NG911 GIS Repository have in geo-routing?

Role of NG911 GIS Repository in geo-routing

- System performs the aggregation of GIS data into statewide datasets
- Transforms the data to one standardized National Emergency Number Association standard
- Provides quality control validations on the data
- Exports the standardized GIS data to the NG911 Core Services Provider



GIS Data Flow for End State NG911 Geo-routing

Statewide 9-1-1 GIS Repository

DTMB State GIS Office

Spatial Interface (SI)

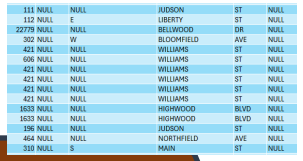
NG911 Core Services Provider

INdigital

Local Authoritative GIS Data

Local Authorized GIS Data Importers

Location Validation Function (LVF)



Location Information Server (LIS)

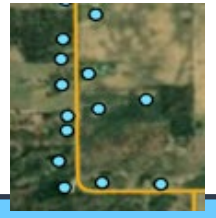
Originating Service Provider (OSP)

Communication Service Subscribers

Emergency Call Routing Function (ECRF)

Emergency Services Routing Proxy (ESRP)

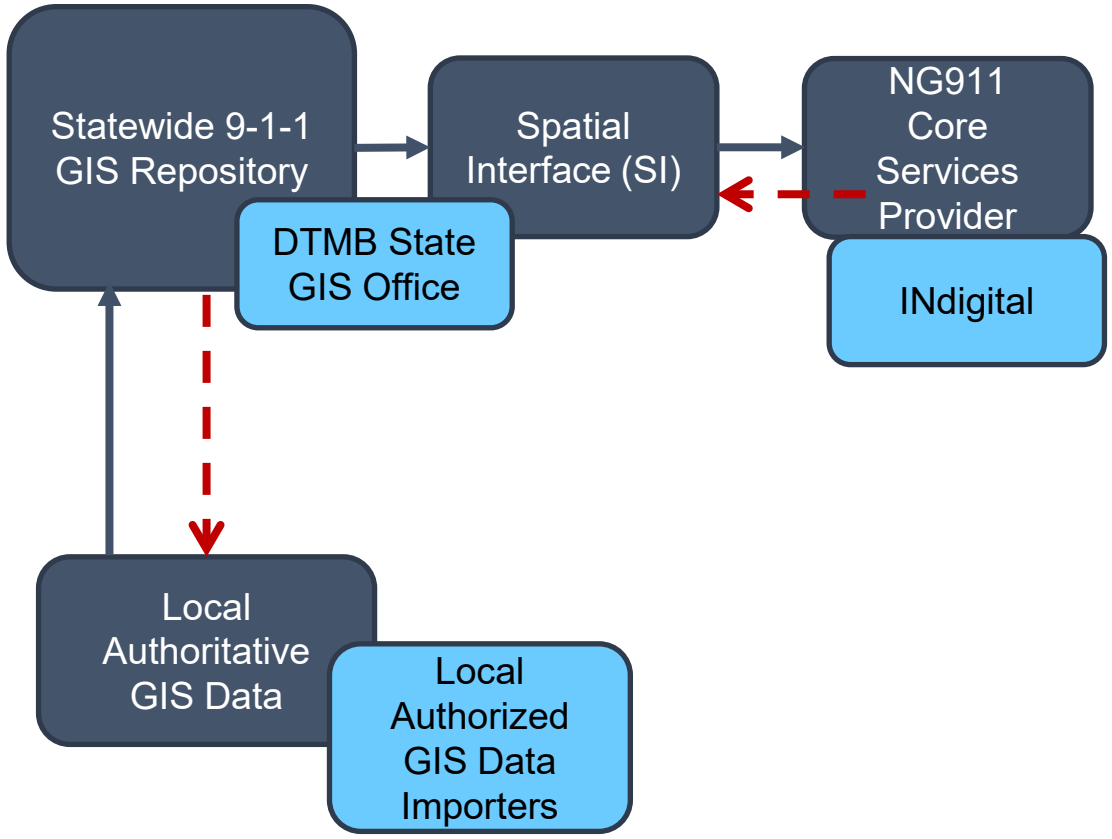
Public Safety Answering Point (PSAP)



911 Telecommunicator

Police
Fire
EMS

Repository for GIS Data Provisioning to PFN/INdigital



- DTMB GIS Office runs a scheduled job nightly to send updates to INdigital
- INdigital processes GIS data for NG911 Core Services
- Discrepancy reports will be provided back by INdigital via DTMB to local GIS data importers

GIS Data Flow for NG911 Call Routing and Validation

Statewide 9-1-1 GIS Repository

DTMB State GIS Office

Spatial Interface (SI)

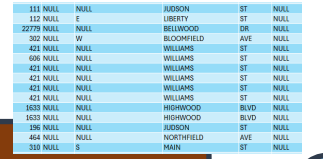
NG911 Core Services Provider

INdigital

Local Authoritative GIS Data

Local Authorized GIS Data Importers

Location Validation Function (LVF)



Location Information Server (LIS)

Communication Service Subscribers

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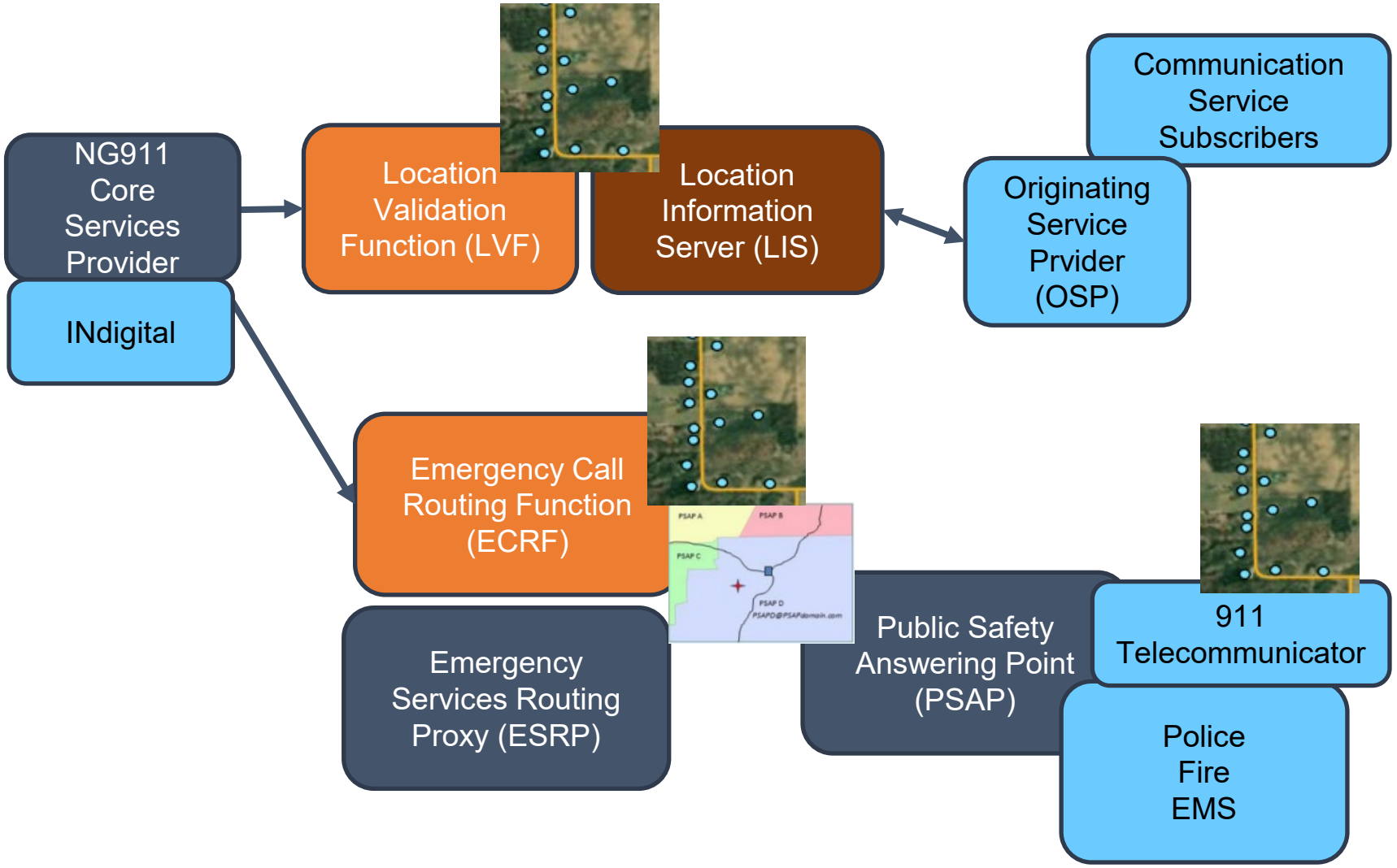
Public Safety Answering Point (PSAP)

911 Telecommunicator

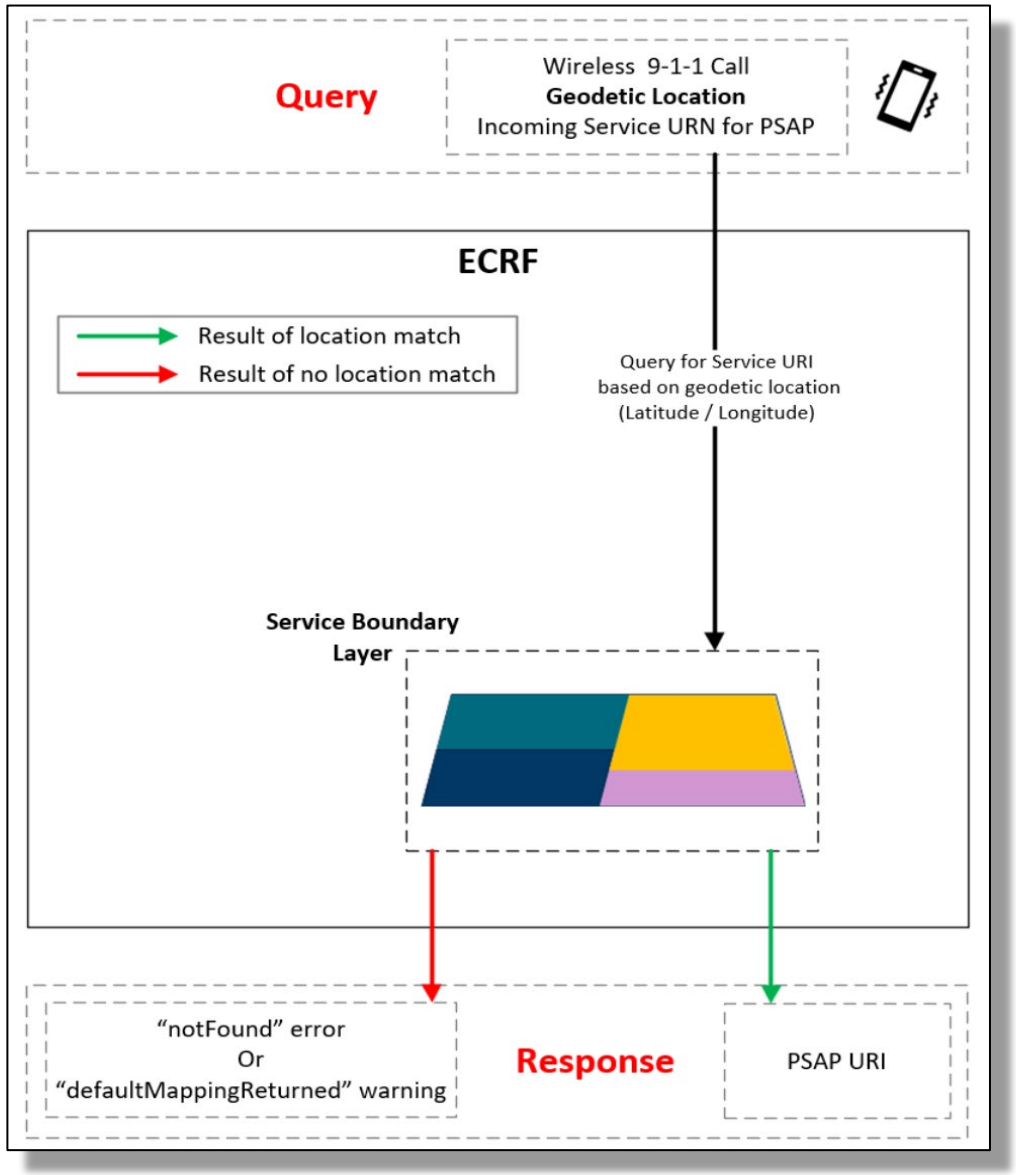
Police
Fire
EMS

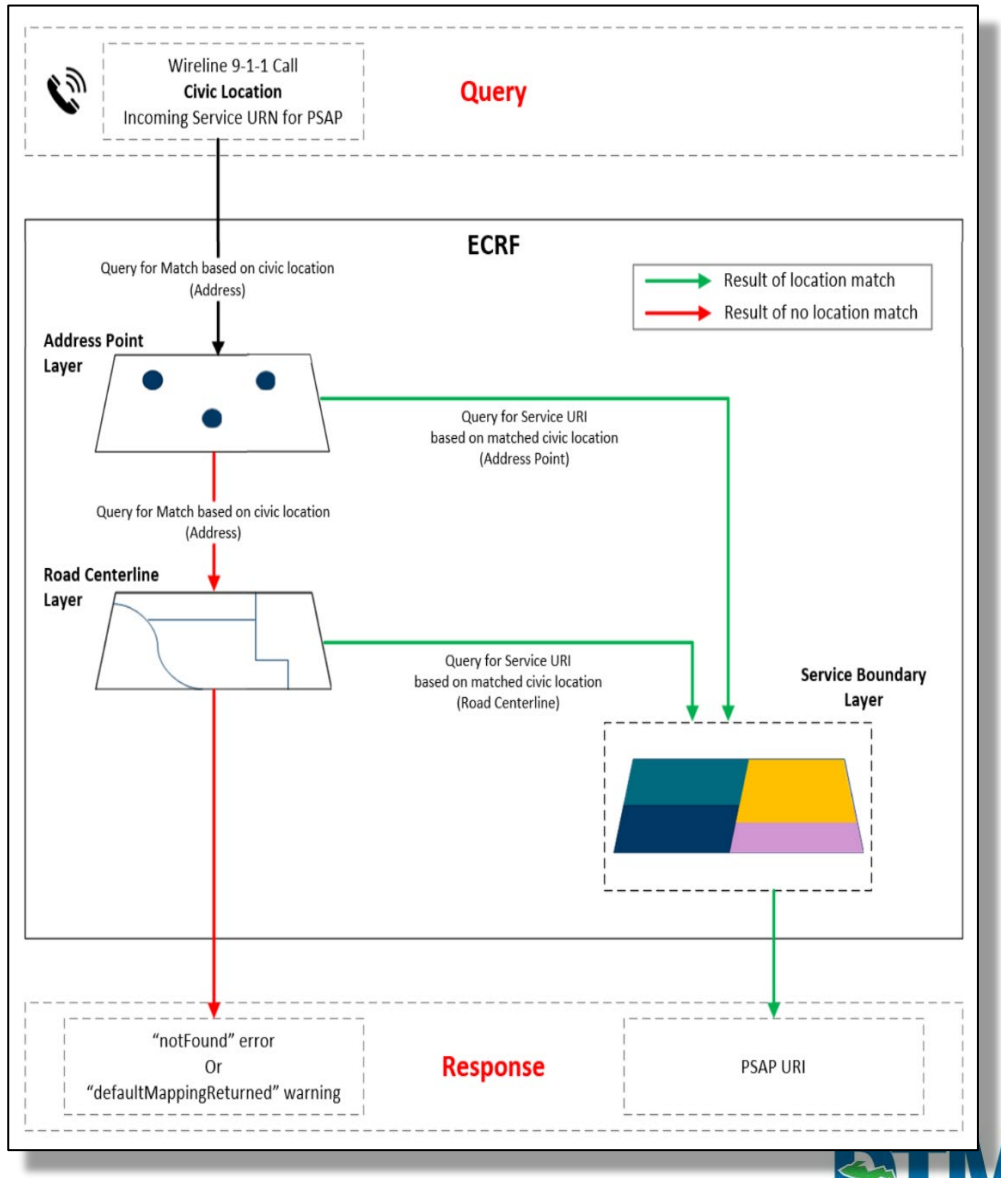
GIS Data Flow for NG911 Call Routing and Validation

- GIS data uploaded to LVF and ECRF
- OSP makes updates to the Location Information Server (customer records)
- Addresses are validated against GIS data via LVF (replaces ALI to MSAG validations)
- ECRF for 911 calls
- Discrepancies sent back to local GIS providers via DTMB State GIS Office



What are impacts if GIS data is not in repository





GIS Data for NG911 Geo-Routing

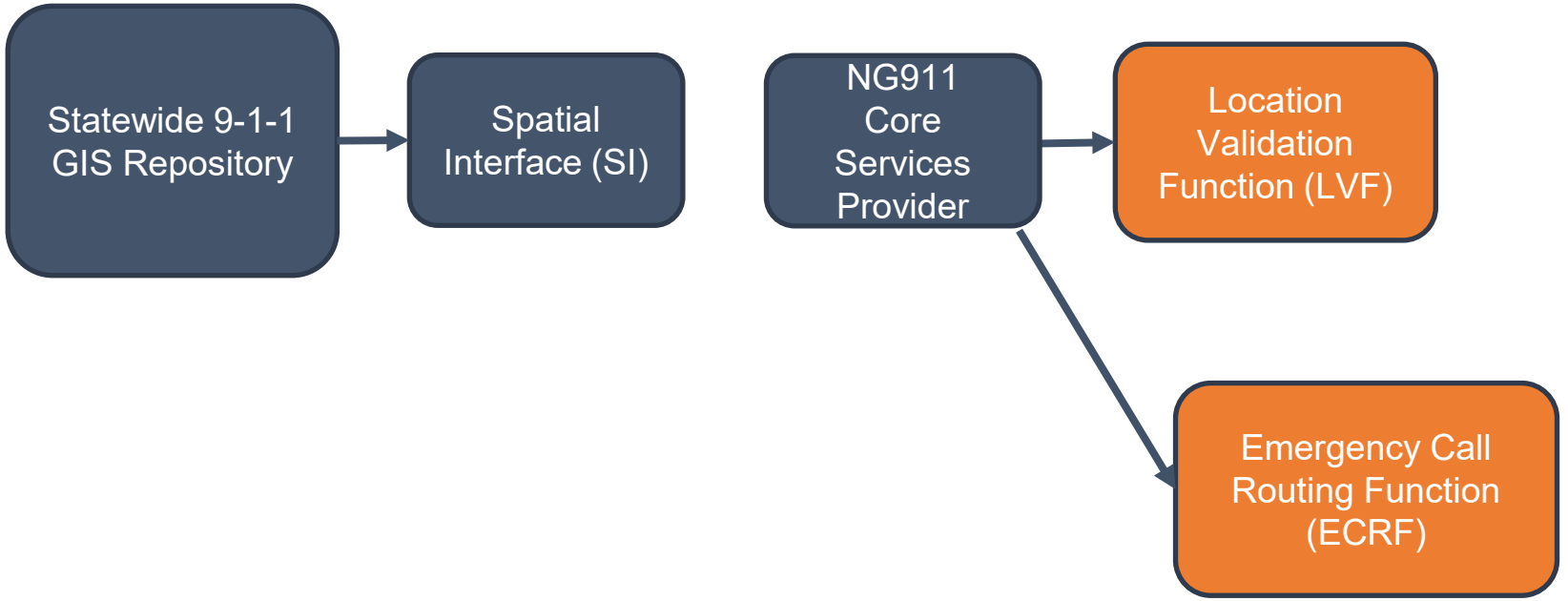
Michigan status for NG911 GIS Readiness for geo-routing?

What stage of GIS readiness

- Standardize
- Standardize
- Standardize
- Standardize
- Standardize
- Standardize
- Standardize
- Standardize
- Standardize
- Standardize

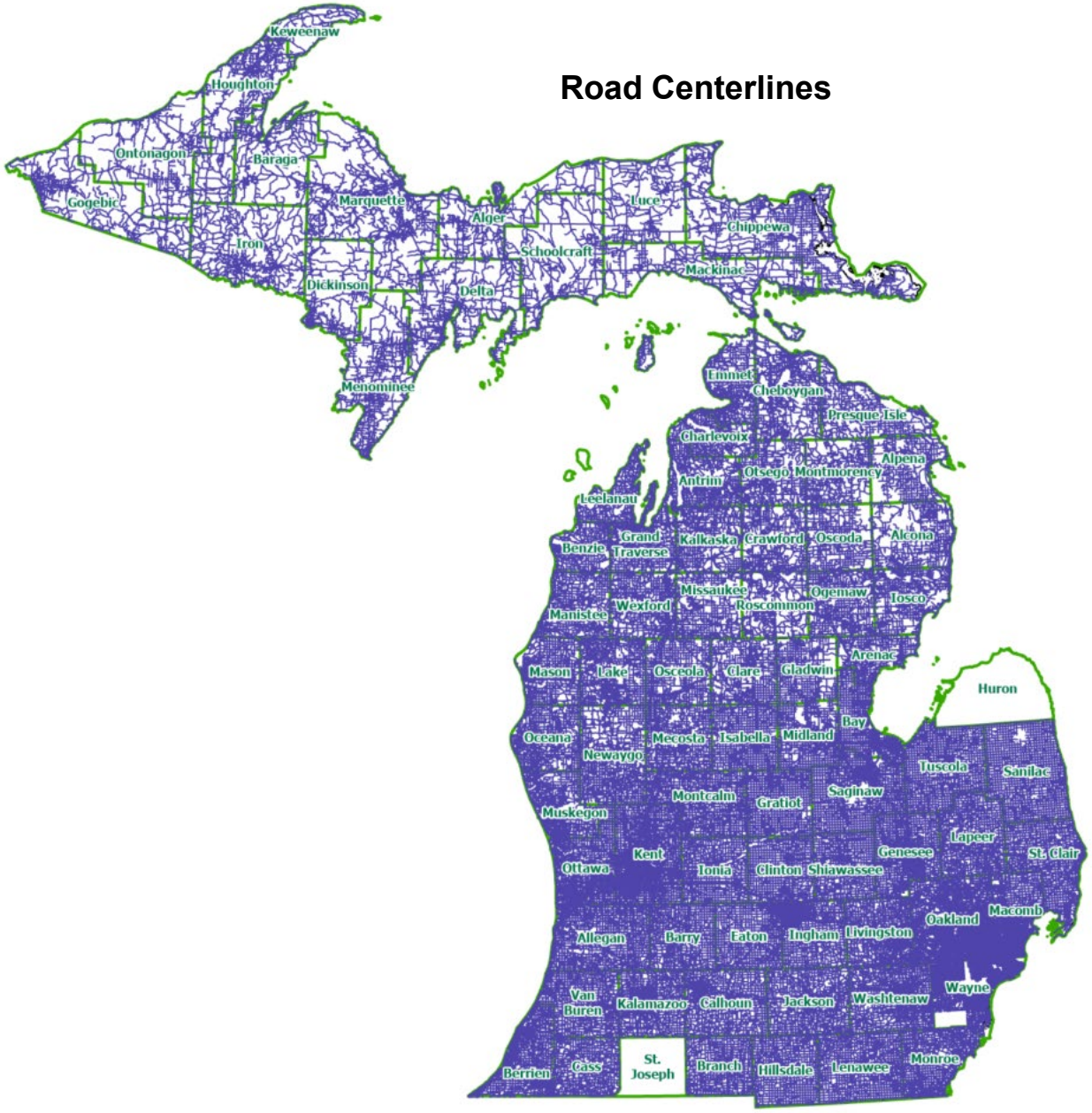
What stage of GIS readiness

Operationalize



Addressing Layers

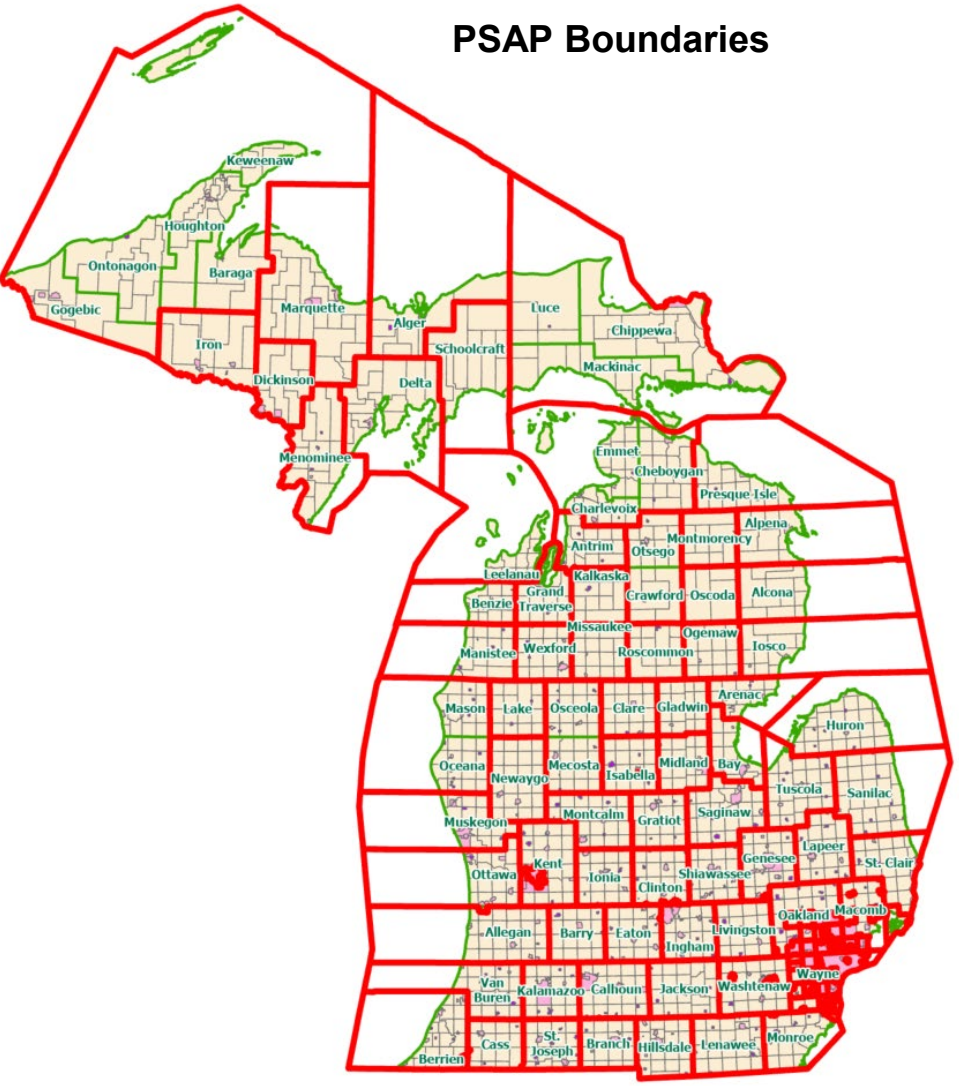
Road Centerlines



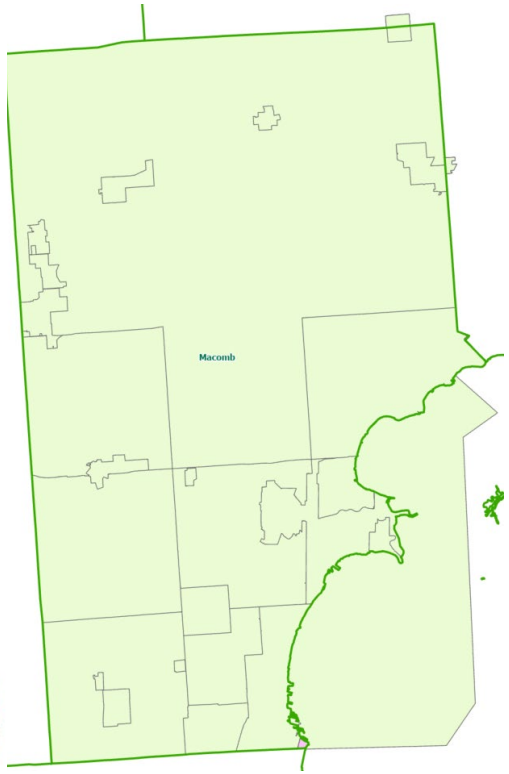
Site Structure Address Points

Emergency Response Zones

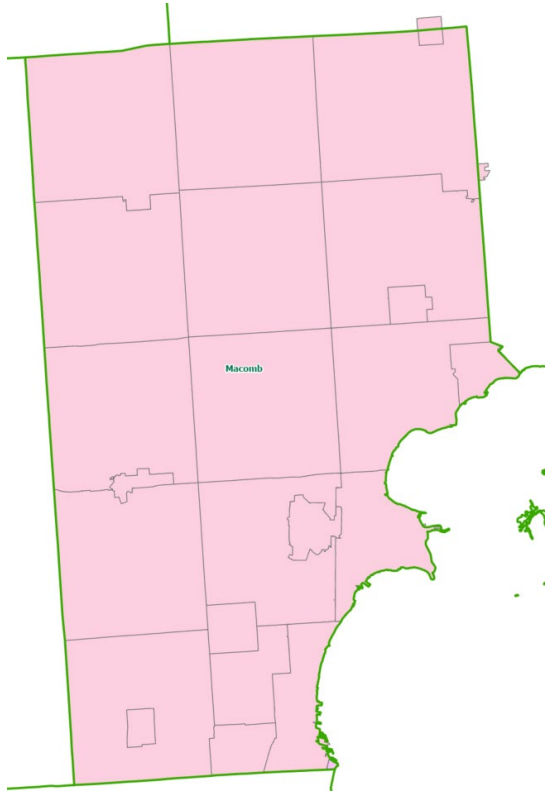
PSAP Boundaries



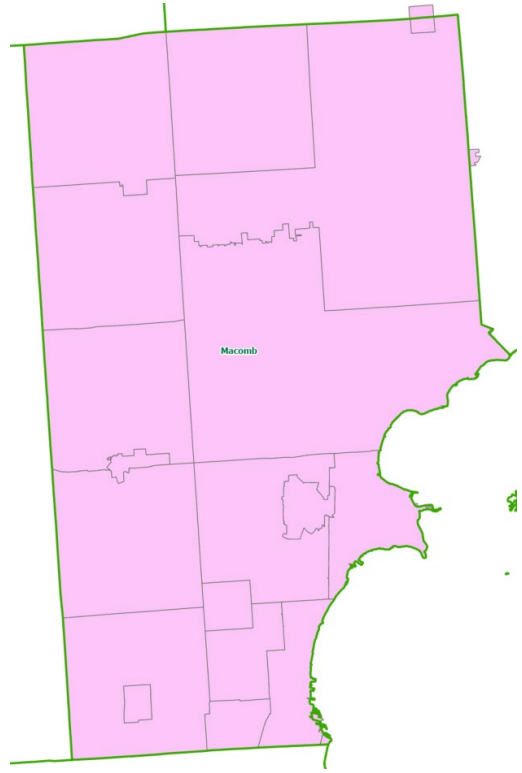
Law Response Zones



Fire Response Zones



EMS Response Zones



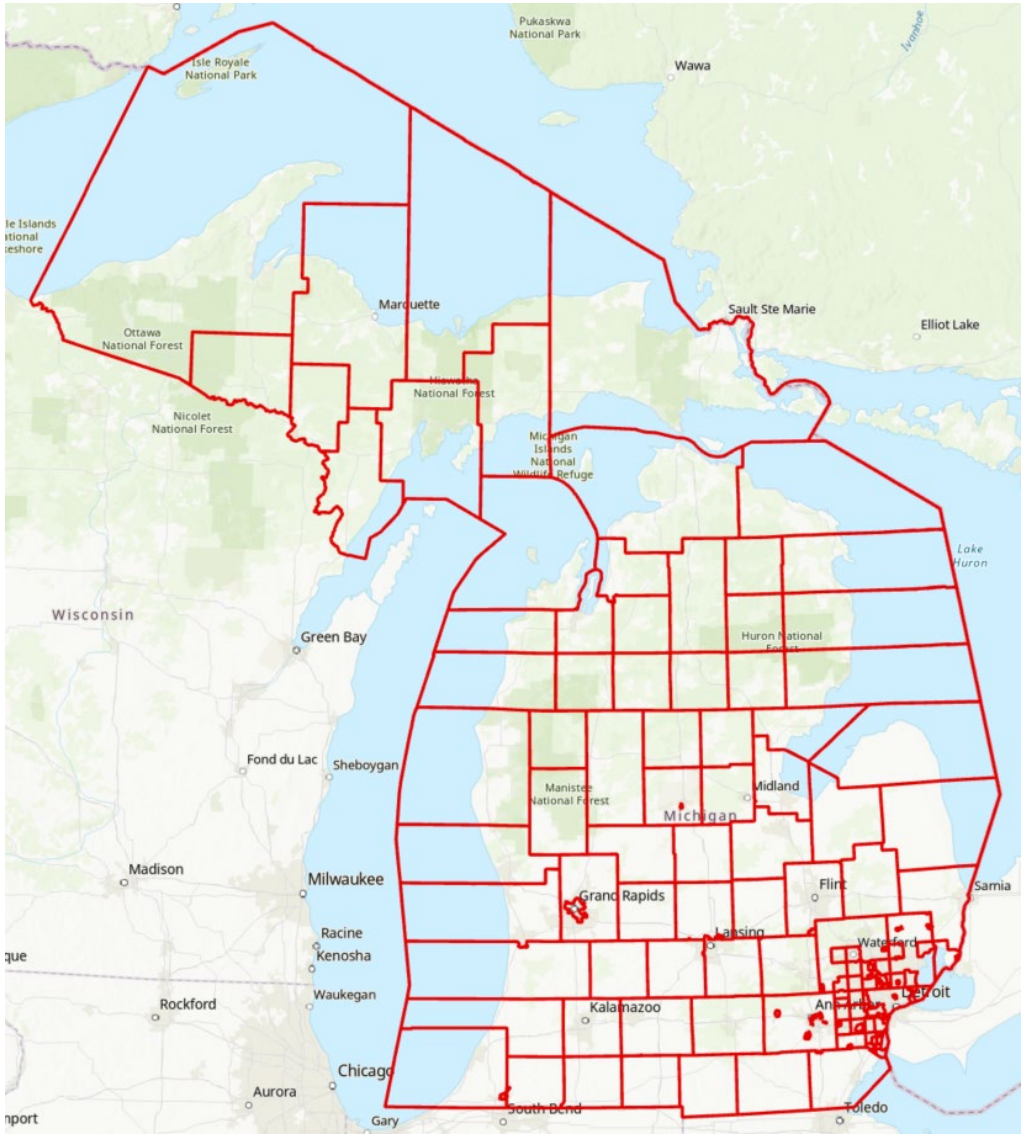
PSAP Boundary Review/Updates

GIS-based PSAP Boundaries in the NG911 GIS Repository are now being used for the 911 geo-routing for wireless calls.

Important to inform DTMB GIS team of any changes to boundaries.

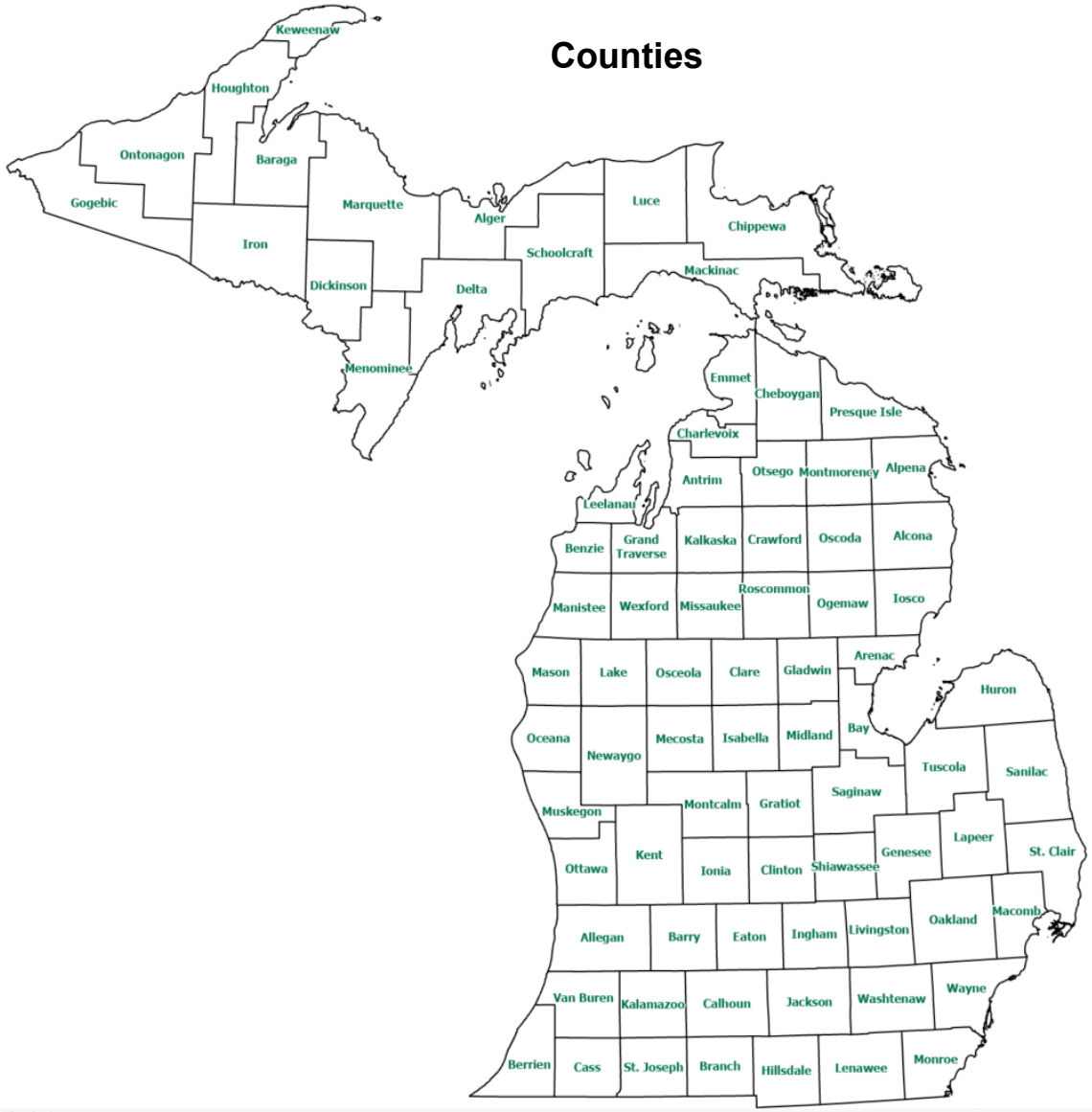
Send email with updates needed to:

DTMB-NG911GIS@michigan.gov

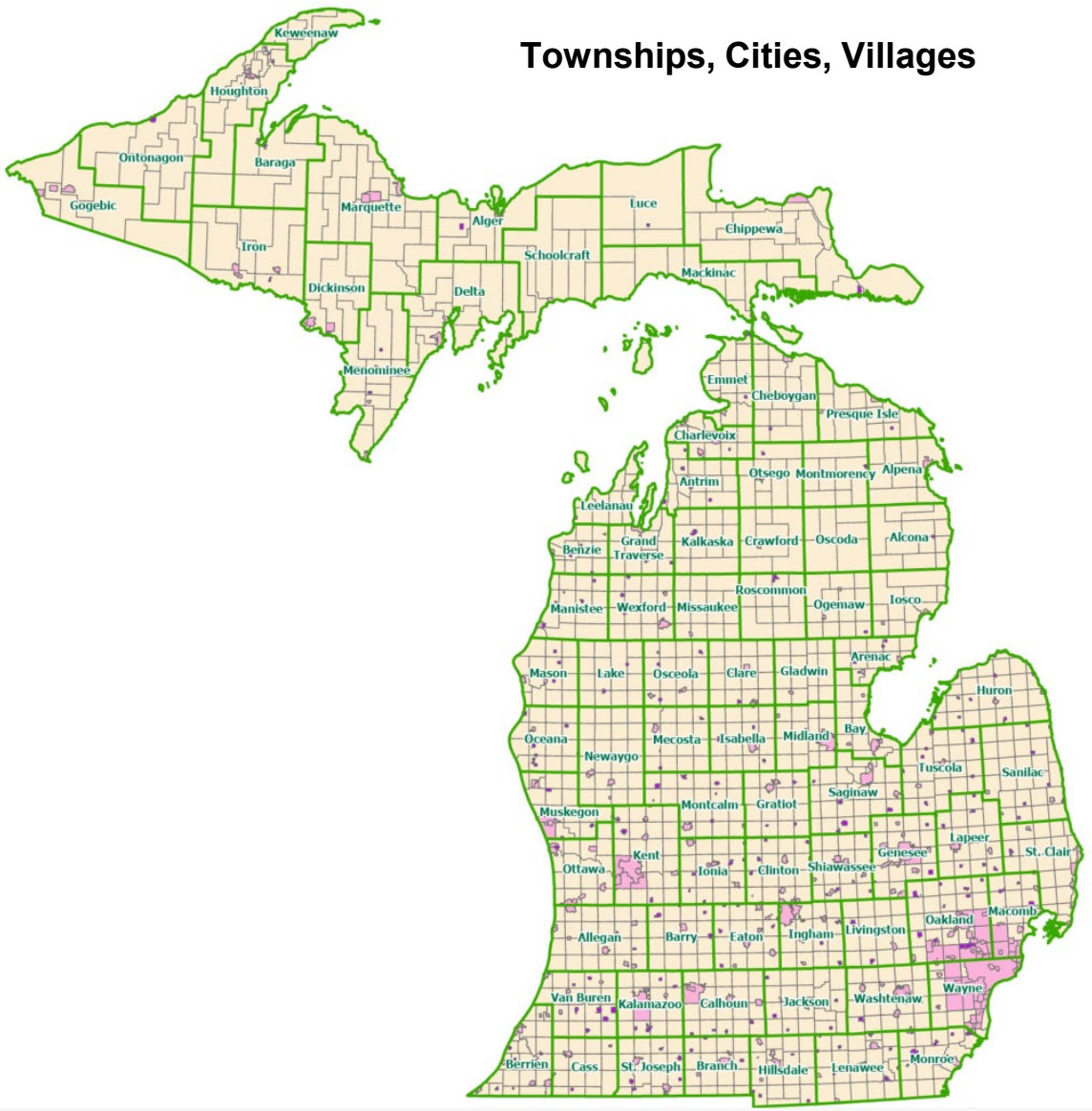


Legislative boundaries

Counties



Townships, Cities, Villages



NG911 Call Flow Structure – PIDF- LO

Presence Information Data Format Location Object

Validation & 'Civic' Tabular Searches

PIDF-LO Element	CLDXF Element
country	Country
A1	State
A2	County
A3	Incorporated Municipality
A4	Unincorporated Community
A5	Neighborhood Community
RD	Street Name
PRM	Street Name Pre Modifier
PRD	Street Name Pre Directional
STP	Street Name Pre Type
STPS	Street Name Pre Type Separator
STS	Street Name Post Type
POD	Street Name Post Directional
POM	Street Name Post Modifier
HNO	Address Number
HNP	Address Number Prefix
HNS	Address Number Suffix
MP	Milepost
BLD	Building
LOC	Additional Location Information
FLR	Floor
UNIT	Unit
ROOM	Room
SEAT	Seat
PCN	Postal Community Name
PC	Postal Code
LMK	Complete Landmark Name
LMKP	Landmark Name Part
PLC	Place Type

Validation and search hierarchy

PIDF-LO	Description	Example (fictional)
<Country>	2-letter ISO code	US
<A1>	State	NY
<A2>	County	Kings County
<A3>	Incorporated Municipality	New York
<A4>	Unincorporated Community	Manhattan
<A5>	Neighborhood Community	Morningside Heights
<RD>	Street Name	Broadway
<PRM>	Street Name Pre Modifier	
<PRD>	Street Name Pre Directional	
<STP>	Street Name Pre Type	
<STPS>	Street Name Pre Type Separator	
<STS>	Street Name Post Type	Avenue
<POD>	Street Name Post Directional	North
<POM>	Street Name Post Modifier	Extension
<HNO>	Address Number	123

Example: PIDF_LO Content

NOTE: HNO = Address Number (per RFC 5139)

Minimum Requirements: SiteStructureAddressPoint

Descriptive Name	Required	
Discrepancy Agency ID	Yes	ingham.org
Date Updated	Yes	MM/DD/YYYY
NENA Globally Unique ID	Yes	SSAP##:dns.com
Country	Yes	US
State	Yes	MI
County	Yes	Ingham County
Incorporated Municipality	Yes	Delhi Township
Address Number Prefix	Conditional	
Address Number	Yes	**123**
Address Number Suffix	Conditional	**B**
Street Name Pre Modifier	Conditional	
Street Name Pre Directional	Conditional	**North**
Street Name Pre Type	Conditional	
Street Name Pre Type Separator	Conditional	
Street Name	Yes	**Balsam**
Street Name Post Type	Conditional	**Lane**
Street Name Post Directional	Conditional	
Street Name Post Modifier	Conditional	

Descriptive Name	Required	
Legacy Street Name Pre Directional	Conditional	**N**
Legacy Street Name	Yes	**BALSAM**
Legacy Street Name Type	Conditional	**LN**
Legacy Street Name Post Directional	Conditional	
Unit Type	Conditional	**Suite**
Unit Number	Conditional	**A**
Postal Code*	Conditional	12345
ESN**	Conditional	567
MSAG Community Name**	Conditional	HOLT

Required – An attribute value MUST be provided for the data field for each record. The data field MUST NOT be blank or null. Safety gates may not allow zero value for certain fields like address number

Conditional – If an attribute value exists, it MUST be provided. If no value exists for the attribute, the data field is left blank.

- * - Strongly recommended to provide postal code value for additional validation benefits
- ** - Needed for transition of MSAG and ALI to NG911

Minimum Requirements: RoadCenterline

Descriptive Name	Required	
Discrepancy Agency ID	Yes	Ingham.org
Date Updated	Yes	MM/DD/YYYY
NENA Globally Unique ID	Yes	SSAP##:dns.com
Country (L and R)	Yes	US
State (L and R)	Yes	MI
County (L and R)	Yes	Ingham County
Incorporated Municipality (L and R)	Yes	Delhi Township
Left FROM Address	Yes	**101**
Left TO Address	Yes	**199**
Right FROM Address	Yes	**100**
Right TO Address	Yes	**198**
Street Name Pre Modifier	Conditional	
Street Name Pre Directional	Conditional	**North**
Street Name Pre Type	Conditional	
Street Name Pre Type Separator	Conditional	
Street Name	Yes	**Balsam**
Street Name Post Type	Conditional	**Lane**
Street Name Post Directional	Conditional	
Street Name Post Modifier	Conditional	

Descriptive Name	Required	
Legacy Street Name Pre Directional	Conditional	**N**
Legacy Street Name	Yes	**BALSAM**
Legacy Street Name Type	Conditional	**LN**
Legacy Street Name Post Directional	Conditional	
Postal Code* (L and R)	Conditional	12345
ESN** (L and R)	Conditional	567
MSAG Community Name** (L and R)	Conditional	HOLT
Parity (L and R)	Yes	O, E, B, Z

Required – An attribute value MUST be provided for the data field for each record. The data field MUST NOT be blank or null. Safety gates may not allow zero value for certain fields like address number

Conditional – If an attribute value exists, it MUST be provided. If no value exists for the attribute, the data field is left blank.

- * - Strongly recommended to provide postal code value for additional validation benefits and geocoding
- ** - Needed for transition of MSAG and ALI to NG911

Minimum Requirements: GIS Assessments

Site Structure Points		
Check	**Complete(C)/Not Complete(NC)**	**Comments**
DiscrepancyAgencyId in correct format	C	
Unique ID is populated	C	
Unique ID is unique	C	
Unique ID in correct format	NC	
Date Updated is populated	C	
Date Updated is correct format	C	
County name is populated	C	
County name is correct format	C	
Incorporated Municipality is populated	NC	
Incorporated Municipality correct format	NC	
Address Number is populated (no zeros or nulls)	NC	About 20 nulls present
CLDXF street name elements populated	NC	
CLDXF street name elements in correct format/case	NC	
CLDXF street name has value in all records	NC	
Legacy street name elements are populated	C	
Legacy street name elements are in correct format/case	C	
Unit type has correct format	NC	
Unit number has correct format	NC	
Postal Code is populated/correct format	NC	
ESN is populated	C	
MSAG Community Name is populated	NC	
Other Comments		

Road Centerlines		
Check	**Complete(C)/Not Complete(NC)**	**Comments**
DiscrepancyAgencyId in correct format	C	
Unique ID is populated	C	
Unique ID is unique	C	
Unique ID in correct format	NC	
Date Updated is populated	C	
Date Updated is correct format	C	
County name is populated	C	
County name is correct format	C	
Incorporated Municipality is populated	C	
Incorporated Municipality correct format	NC	Not in title case
Address ranges all have ranges or zero ranges (no nulls)	C	
CLDXF street name elements populated	NC	
CLDXF street name elements in correct format/case	NC	
CLDXF street name has value in all records	NC	
Legacy street name elements are populated	C	
Legacy street name elements are in correct format/case	C	
Parity fields are populated and in correct format	NC	
Postal Code is populated/correct format	C	
ESN is populated	NC	
MSAG Community Name is populated	NC	
Other Comments		

Minimum Requirements: MSAG Community and ESN

After assessment items are resolved and GIS data reloaded to the repository……

DTMB will run a process between GIS and MSAG data to match as many records as possible to bring over MSAG Community and ESN and provide validation reports with non-matching records

A	B	C	D	E	F	G	H	I	J	K	L	M
Prefix Direction	Street Name	Street Suffi	Post Direction	Low Range	High Range	Community Name	State	Side	ESN	County ID	Exchange	General Use
	A	ST		12809	12970	LA SALLE	MI	B	117	115	MROM	LA SALLE TWP
	A	ST		1	12	FLAT ROCK	MI	B	127	115	FRK	BERLIN TWP
	A AVENUE			4300	4499	NEWPORT	MI	B	123	115	MRON	FRENCHTOWN TWP
	ABBEY	RD		1020	1064	MONROE	MI	B	118	115	MROM	MONROE TWP
	ABERDEEN	LN		100	152	MONROE	MI	B	110	115	MROM	RAISINVILLE TWP
	ABERDEEN	DR		8200	8499	LAMBERTVILLE	MI	B	113	115	7824	BEDFORD TWP
	ACRES	RD		6201	6598	OTTAWA LAKE	MI	B	104	115	7824	WHITEFORD TWP
	ADAMS	ST		826	1306	MONROE	MI	B	118	115	MROM	MONROE TWP

MSAG Community and ESN can be found in MSAG Table

GIS Data for NG911 Geo-Routing

What happens to my MSAG/ALI in NG911?

NG911 Transition Stage

- MSAG an ALI databases are still used during NG911 Transition Stage
- During this phase, GIS data and MSAG and ALI must all be kept in sync
- In End State NG911, GIS data replaces the role of the MSAG and ALI
- In Michigan, GIS Readiness is currently at phase of getting MSAG and ALI records synchronized with GIS data for Transition Stage

MSAG/ALI and GIS synchronization

Need to match on street names and municipalities to find matches

DTMB validations identifies mismatches to be reviewed

1922	NULL	SUFFOLK	AVE	NU
1919	NULL	SUFFOLK	AVE	NU
1918	NULL	SUFFOLK	AVE	NU
1915	NULL	SUFFOLK	AVE	NU
2045	NULL	SUFFOLK	AVE	NU
2041	NULL	SUFFOLK	AVE	NU
2036	NULL	SUFFOLK	AVE	NU
2035	NULL	SUFFOLK	AVE	NU
2034	NULL	SUFFOLK	AVE	NU
2032	NULL	SUFFOLK	AVE	NU
2031	NULL	SUFFOLK	AVE	NU
2028	NULL	SUFFOLK	AVE	NU
2024	NULL	SUFFOLK	AVE	NU
2021	NULL	SUFFOLK	AVE	NU
2020	NULL	SUFFOLK	AVE	NU
2016	NULL	SUFFOLK	AVE	NU
2012	NULL	SUFFOLK	AVE	NU
2008	NULL	SUFFOLK	AVE	NU
2006	NULL	SUFFOLK	AVE	NU
2004	NULL	SUFFOLK	AVE	NU
2000	NULL	SUFFOLK	AVE	NU
1930	NULL	SUFFOLK	AVE	NU
11295	NULL	SUFFOLK	CT	NU
11290	NULL	SUFFOLK	CT	NU
11265	NULL	SUFFOLK	CT	NU
11260	NULL	SUFFOLK	CT	NU
11235	NULL	SUFFOLK	CT	NU
11230	NULL	SUFFOLK	CT	NU
11205	NULL	SUFFOLK	CT	NU
11200	NULL	SUFFOLK	CT	NU

GIS Data

	STUDEBAKER	AVE
	STUDENT CENTER BUILDING	
	STURBRIDGE	CT
	SUE	PKWY
	SUFFOLK	AVE
	SUGARLOAF LAKE	RD
	SULGRAVE	PL
	SULLIVAN	DR
	SUMAC	LN
	SUMAC	LN
	SUMAC	LN

MSAG Table

MSAG/ALI and GIS synchronization

Need to match on street names and municipalities to find matches

DTMB validations identifies mismatches to be reviewed

9801	NULL	AUTUMN	TRL	N
9801	NULL	AUTUMN	TRL	N
9797	NULL	AUTUMN	TRL	N
9793	NULL	AUTUMN	TRL	N
9789	NULL	AUTUMN	TRL	N
9785	NULL	AUTUMN	TRL	N
9781	NULL	AUTUMN	TRL	N
9777	NULL	AUTUMN	TRL	N
9773	NULL	AUTUMN	TRL	N
9769	NULL	AUTUMN	TRL	N
9764	NULL	AUTUMN	TRL	N
9760	NULL	AUTUMN	TRL	N
9756	NULL	AUTUMN	TRL	N
9752	NULL	AUTUMN	TRL	N
9748	NULL	AUTUMN	TRL	N
9740	NULL	AUTUMN	TRL	N
9736	NULL	AUTUMN	TRL	N
9732	NULL	AUTUMN	TRL	N
9728	NULL	AUTUMN	TRL	N
9724	NULL	AUTUMN	TRL	N
9720	NULL	AUTUMN	TRL	N
9713	NULL	AUTUMN	TRL	N
9713	NULL	AUTUMN	TRL	N

GIS Data

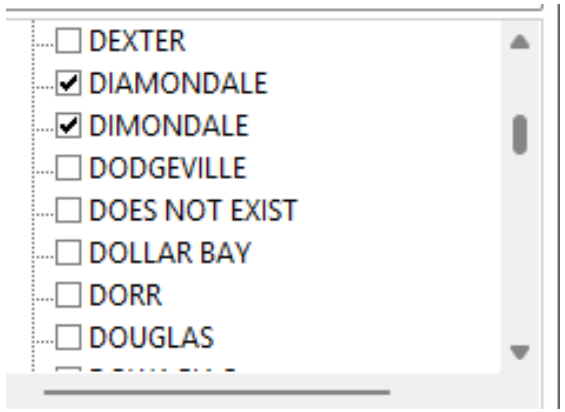
	AUSTIN	RD		SALINE	8500	10065 B
	AUSTON	LN		CHELSEA	1302	1492 B
	AUTO MALL	DR		ANN ARBOR	500	590 B
	AUTUMN	LN		ANN ARBOR	3300	3499 B
	AUTUMN	TRL		DEXTER	8793	8998 B
	AUTUMN	LN		SOUTH LYON	4633	4633 B
	AUTUMN HILL	DR		ANN ARBOR	1800	2141 B

MSAG Table

MSAG/ALI and GIS synchronization

Need to match on street names and municipalities to find matches

Review existing MSAG for inconsistencies

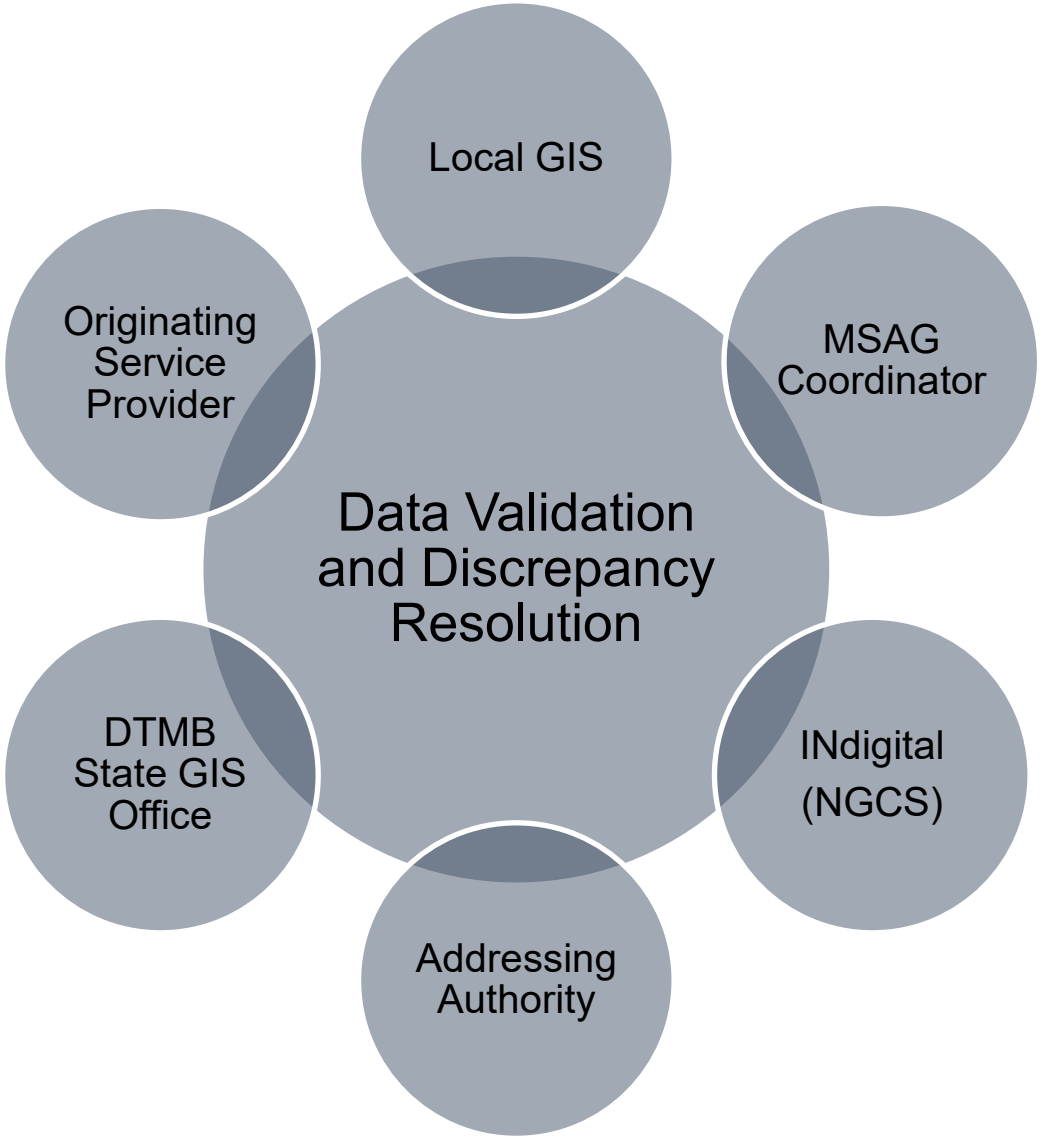


G	H
Community Name	State
COMMERCE TOWNSHIP	MI
COMMERCE TWP	MI
COMMERCE TWP	MI
COMMERCE TOWNSHIP	MI
COMMERCE TOWNSHIP	MI

47204		CHAUCER	CIR		4100	4164	HOT	MI	B	359	65	HOLT	DELHI TWP	816069	########

MSAG and GIS data discrepancy resolutions

Requires coordination and communication



MSAG/ALI – GIS Reconciliation

Update Action	msag PrefixDir	msag StreetName	msag_StreetSuffix	masg PostDir	New_PrefixDir	New_StreetName	New_StreetSuffix	New_PostDir
Update Name		ALLEN-A-DALE	CT			ALLEN A DALE		
Update Name		ARCHER'S	LN			ARCHERS		
Update Name		BALMORAL					AVE	
Update Name		BASSETT WOOD	CT			BASSETT		
Update Name		BATES					ST	
Update Name		BEACONSFIELD					DR	
Update Name		BEDFORD					RD	
Update Name		BELLVINE	CT			BELL VINE		
Delete		BELLVINE	RD			BELL VINE	CT	
Update Name		BELLVINE	TRL			BELL VINE		
Delete, and update range on MSAG ID 301174 to 31800 to 32100		BEVERLY	CIR				RD	
Update Name		BIRMINGHAM					ST	
Update Name		CARLELDER					RD	
Update Name		DEVONSHIRE					DR	
Update Name	E	BELLVINE	TRL			BELL VINE		
Update Name	E	HUNTLEY	SQ					E
Update Name	E	LINCOLNSHIRE					ST	
Update Name	E	RUTLAND					ST	
Update Name		ELIZABETH					ST	
Update Name		ELWOOD					ST	
Update Name		EMBASSY					ST	
Update Name		FAIRCREST					ST	
Update Name		FIDDLER'S COVE	RD			FIDDLERS	CV	
Update Name		GATES					ST	

- MSAG change requests are sent to INdigital for updates in this format above
- GIS updates are made by GIS staff and re-uploaded to GIS Repository

Maintaining GIS and MSAG/ALI in NG911 Transition Phase

GIS Staff, Address Authority

MSAG Coordinator, NGCS, OSP

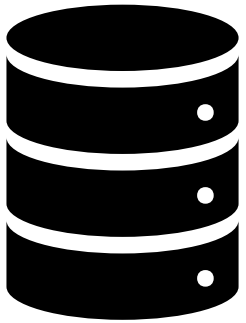
Communication and Coordination

Updates– e.g. new structure, new road, update to structure or road

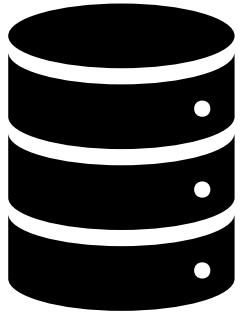
Updates– e.g. new structure, new road, update to structure or road

GIS Repository

MSAG/ALI



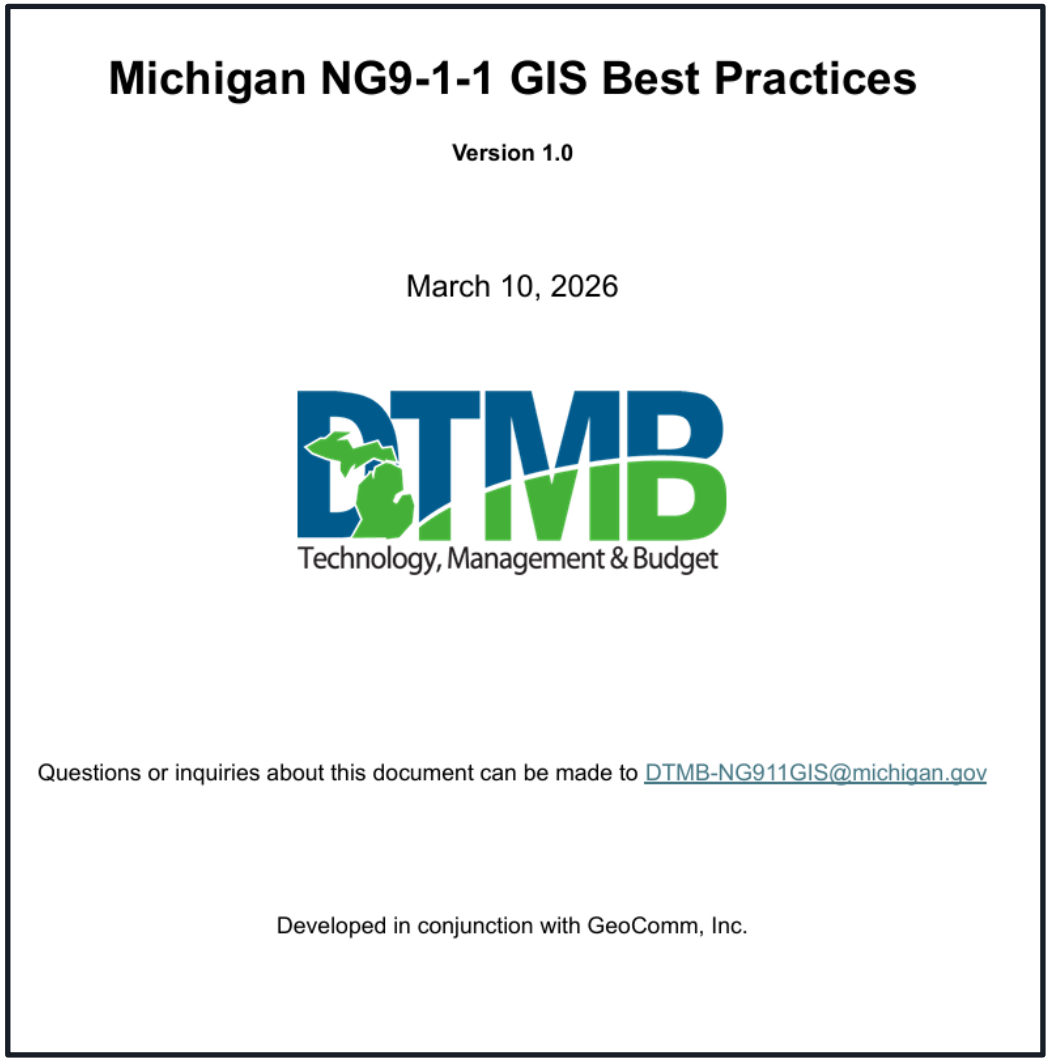
Validations and Reports



GIS Data for NG911 Geo-Routing

What else?

Addressing Best Practices Guidelines



Michigan NG9-1-1 GIS Best Practices

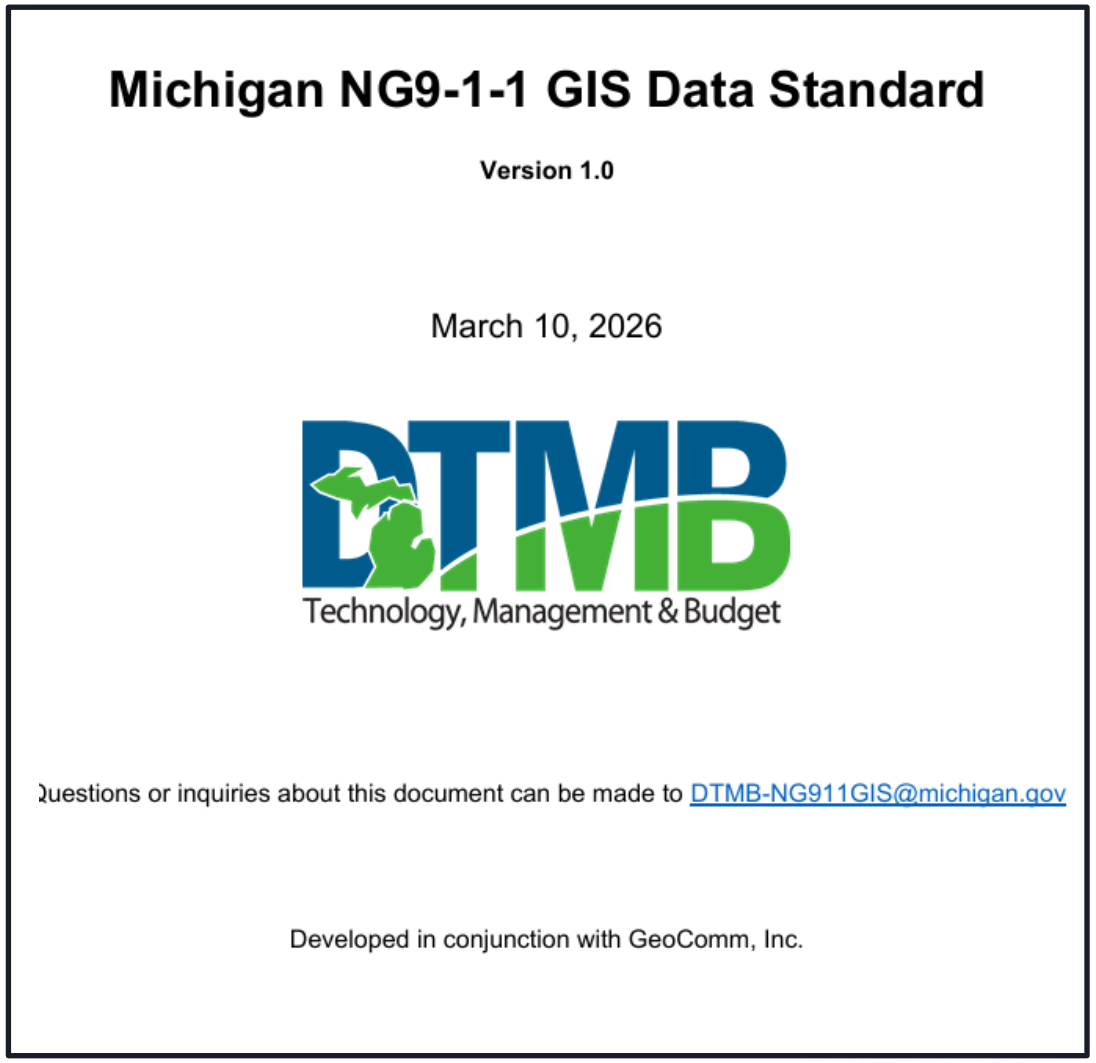
Version 1.0

March 10, 2026

DTMB Technology, Management & Budget

Questions or inquiries about this document can be made to DTMB-NG911GIS@michigan.gov

Developed in conjunction with GeoComm, Inc.



Michigan NG9-1-1 GIS Data Standard

Version 1.0

March 10, 2026

DTMB Technology, Management & Budget

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Developed in conjunction with GeoComm, Inc.

Addressing Best Practices Guidelines

4.3 Primary Address Elements

4.3.1 Address Number Prefix

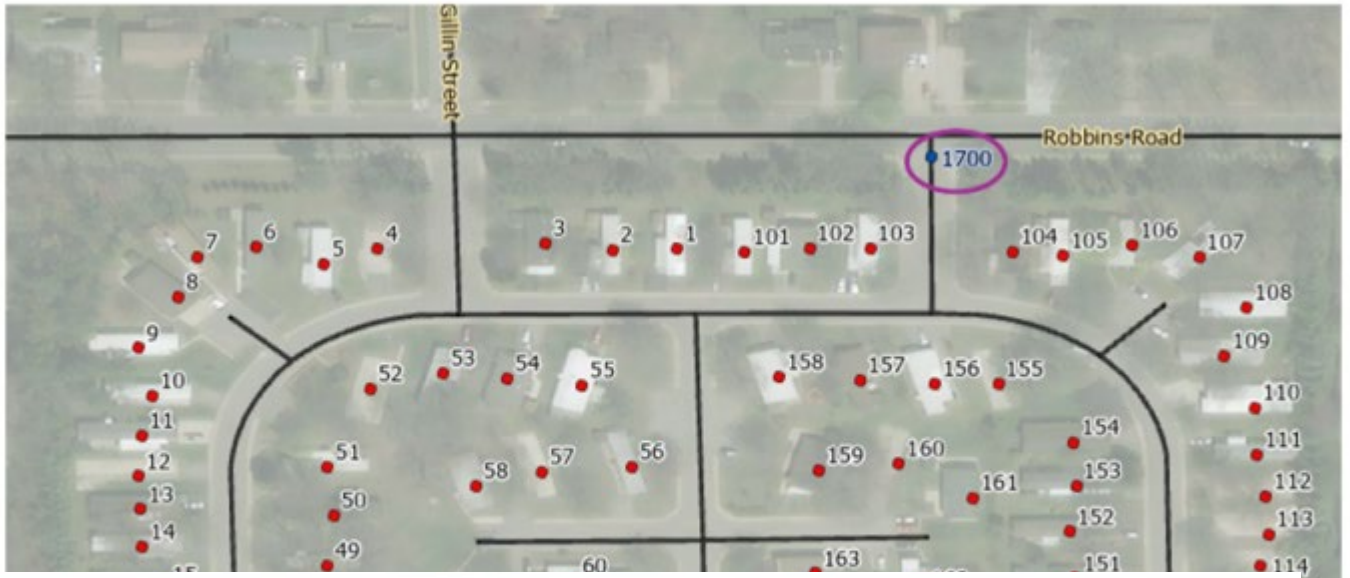
Database Field Name	AddNum_Pre		
Data Type	TEXT	Inclusion	Conditional
Width	15	Domain	
Examples	N123, W123, N, W, S123W		
Description	The non-integer portion of the identifier for a parcel, hou feature which precedes the address number, as defined Authority for the given jurisdiction. Used commonly in M directional to an address number (e.g., **N**2554 Johnson S counties where grid address numbers exist to include the reference.		

4.3.2 Address Number

Database Field Name	Add_Number		
Data Type	LONG	Inclusion	Co
Width	6	Domain	Wl
Examples	123, 10546		
Description	The numeric identifier for a parcel, house, buildi the official Addressing Authority for a given juris		

4.3.3 Address Number Suffix

Database Field Name	AddNum_Suf		
Data Type	TEXT	Inclusion	Co
Width	15	Domain	
Examples	A, 1/2		
Description	The non-integer portion of the identifier for a pa feature which follows the address number, as de Authority for a given jurisdiction. Not commonly Not to be confused with Unit divisions within a b		



GIS and Computer-Aided Dispatch (CAD) Systems

- Benefits of NG911 GIS Repository for CAD
  - Can access neighboring GIS in standardized NENA format
  - Process for change requests
  - Best practices standards across dataset

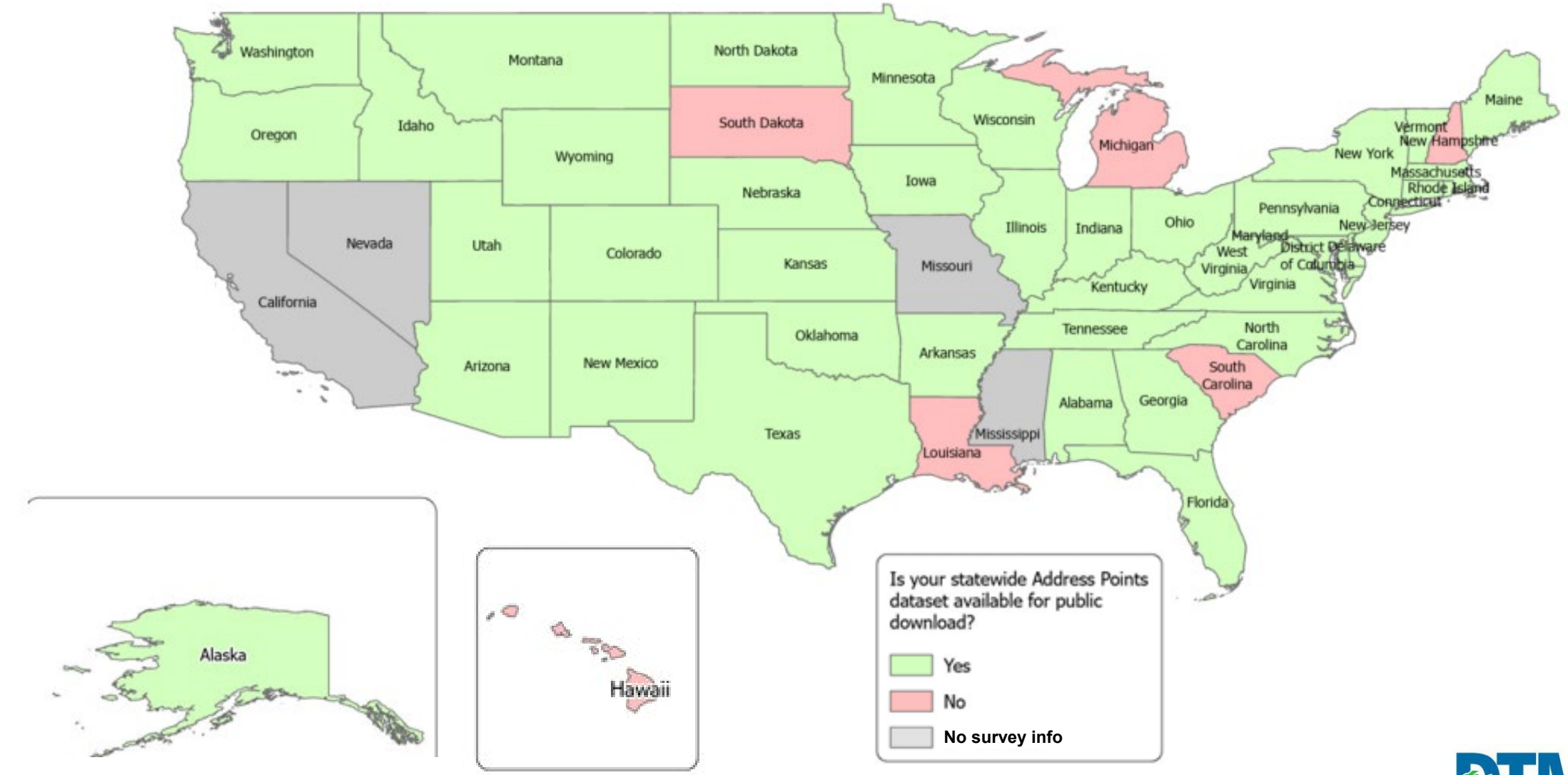
- Things to consider with CAD
  - Data schema leverages the NG911 Repository GIS Data Model where applicable (NENA)
  - Uploading of regional data (i.e. surrounding counties)
  - GIS data update process
  - Involve county/city GIS staff in process

Benefits of GIS Address Data Beyond NG911

- Time savings in providing to one place
- Collaboration on continuous data maintenance and standardization
- Some examples of uses that improve coordination and interoperability
  - GIS data in statewide layers available for emergency response incidents – no loss of time to gather data
  - MSP helicopter navigation system - addresses
  - State can validate data against other systems to improve addresses accuracy in all systems
  - Create tools for local government uses
  - Help state and local departments have consistent information for coordination on joint programs
  - Improve address consistency for citizens

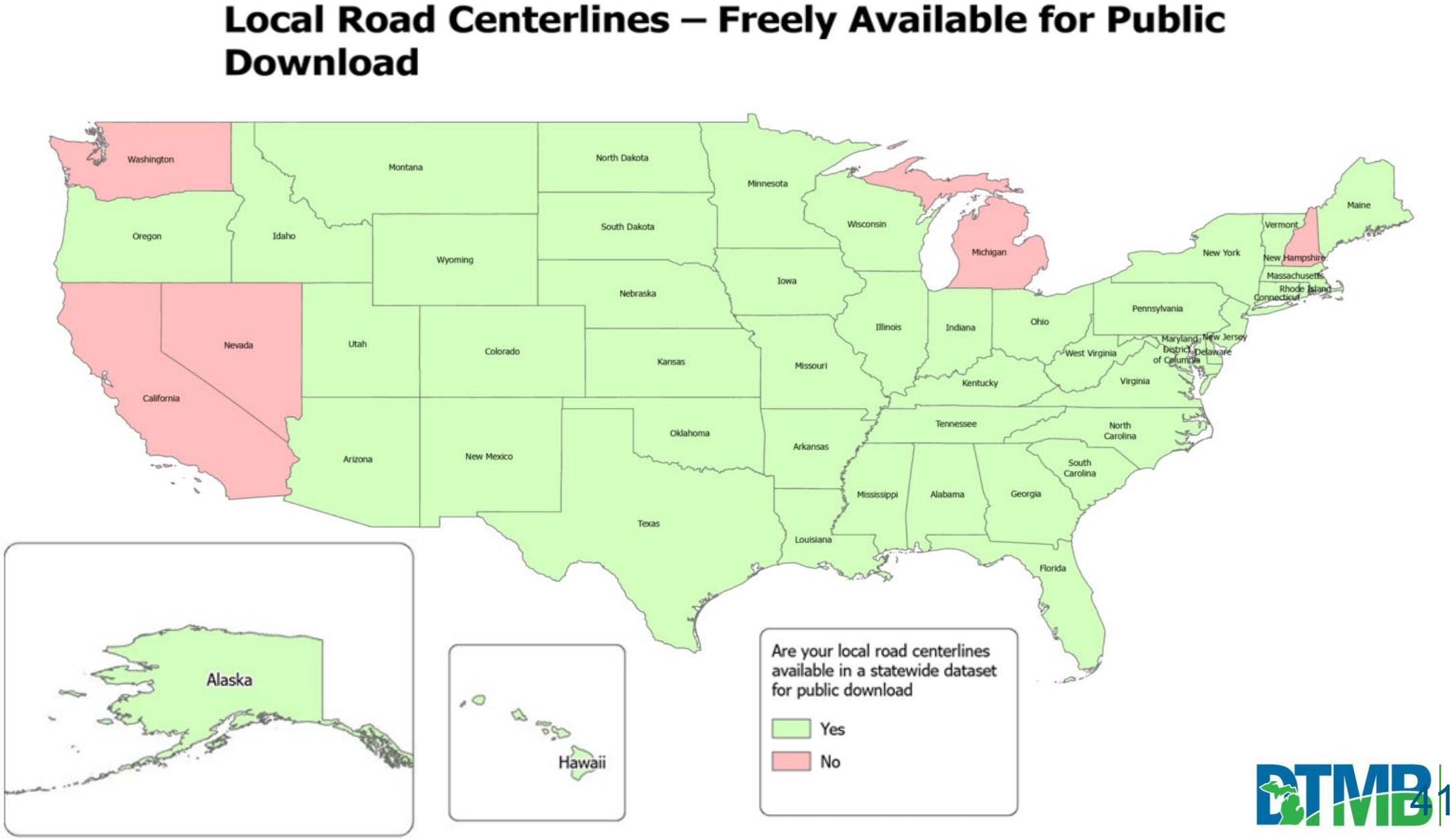
National Perspective – Open GIS Addresses

Address Points – Freely Available for Public Download

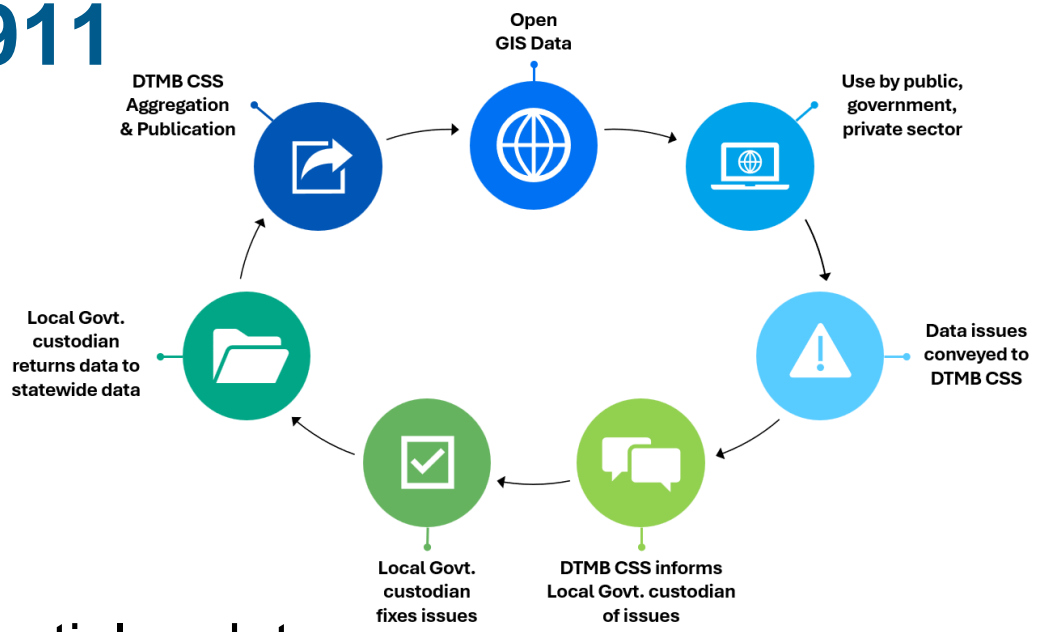


Source: 2025 National States Geographic Information Council Geospatial Maturity Assessment and National Address Database

National Perspective – Open Local Road Centerlines



How Does Open Data Help NG911



- More people using the data, more eyes to report potential updates
  - Cost and time savings if others help identify new updates to the data
- Third party applications can be using the same consistent data
  - Third party 911 apps
  - Google Maps, Apple Maps, ESRI Maps, Azure/Bing Maps, Others
  - Improves effectiveness of applications and consistency
- Improves common operating picture and situational awareness during emergencies
- When people are relaying information to 911 telecommunicators, more consistent maps means more accurate maps that callers would be using

Questions

Support email: DTMB-NG911GIS@michigan.gov

Mark Holmes – DTMB State GIS Office – holmesm3@michigan.gc