



The Michigan 9-1-1 GIS Repository

Training Webinar
June 7, 2017



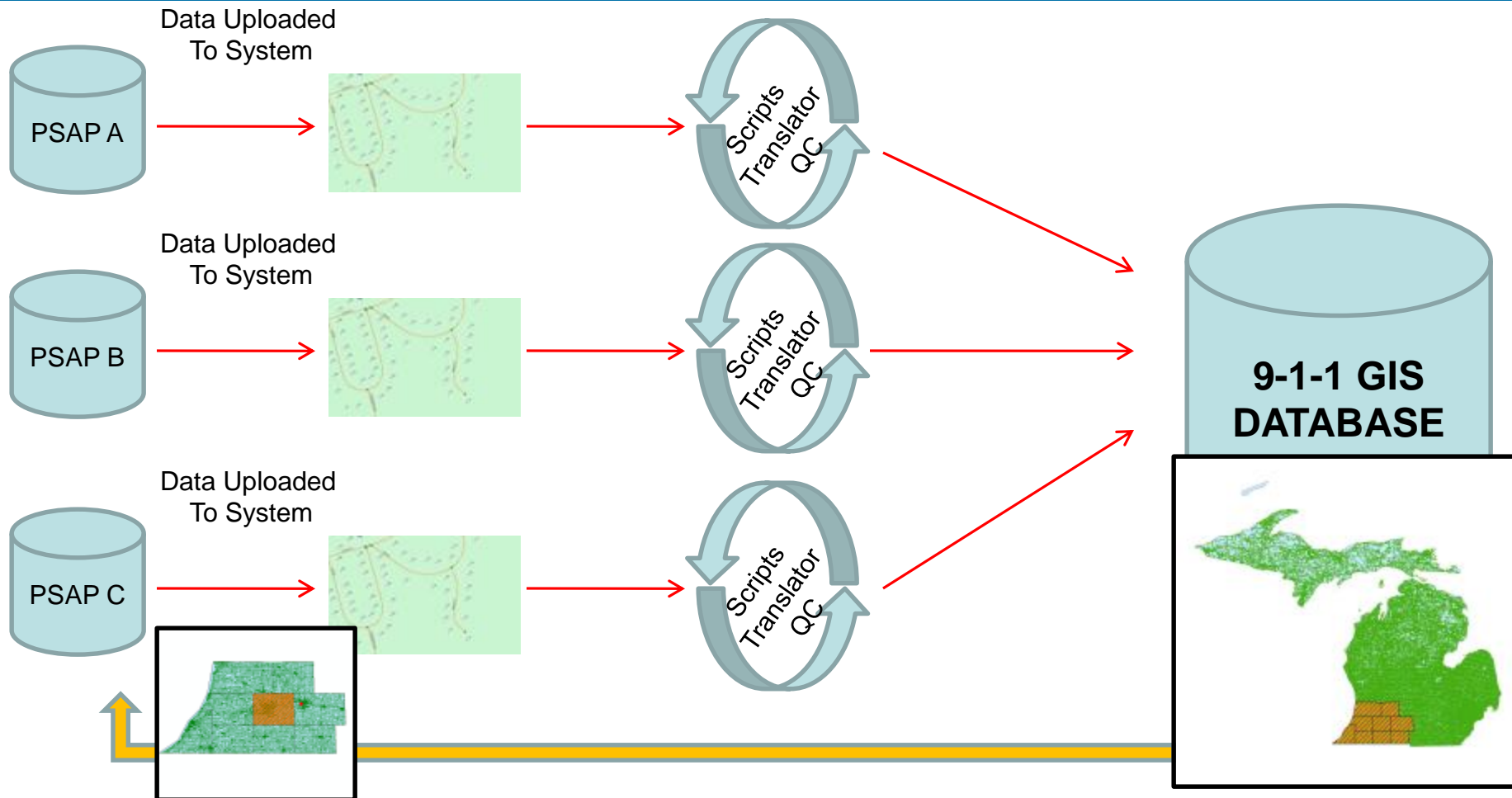
Today's Agenda

- Background
- Region Administration Tool
- Data Viewer
- Import Data Utility
- Export Data Utility
- Red Line Edit Tools
- Questions

ENHANCE 911 Act Grant Project

- ◆ Created a central 9-1-1 GIS Repository
 - Enabling PSAPs to share GIS information
 - Establishing MOAs
 - Setting standards for GIS data entry
 - Future framework for NG9-1-1 database
- ◆ Statewide Public Safety Answering Point (PSAP) Boundary Layer
- ◆ Statewide Road Centerline Layer

How does it work?



911 User Request michigan.gov/snc

The screenshot shows the Michigan State Police website. At the top, there is a navigation bar with links for 'Contact MSP', 'Online Services', 'MSP Home', and 'MI.gov'. Below this is a search bar and a banner image of Michigan State Police vehicles. A secondary navigation bar contains links for 'ABOUT MSP', 'CAREERS', 'SERVICES', 'LAW ENFORCEMENT RESOURCES', 'DIVISIONS', 'POSTS', and 'MEDIA CENTER'. The main content area is titled 'DIVISIONS' and includes a breadcrumb trail: 'MSP / DIVISIONS / STATE 911 COMMITTEE / CURRENT ISSUES'. A horizontal menu below the breadcrumb trail has four items: 'Smart 911', 'Text to 911', '911 GIS Repository', and 'Communication Provider Information'. The '911 GIS Repository' item is selected. Underneath, the 'Michigan 911 GIS Repository' section lists several links: 'GIS Participation Map', 'GIS Repository User Request', 'Michigan GIS 9-1-1 Database Standards', 'GIS Repository Guide', and 'Understanding NENA's NG9-1-1 GIS Data Model Standard'. On the left side of the page, there is a vertical menu with various division categories.

Form is located under
“Current Issues”

PSAP Administration Tools

- ◆ Each PSAP (with MOU in place) will have primary designated PSAP Administrator
- ◆ Each PSAP (with MOU in place) can assign alternate PSAP Administrators
- ◆ Internal communication for approval processes needs to be determined locally
 - For example, approving PSAP boundary changes

Roles

PSAP Administrator	This role is established for the person who will be managing the accounts for the users within a specific PSAP jurisdiction. This role will typically be assigned to the 911 Director. This access is limited to PSAPs that are a branch of the entity that is party to the ‘memorandum of understanding’ for the 911 GIS Repository.
Alternate PSAP Administrator(s)	This role is established for a person to provide a backup role to the PSAP Administrator for assigning logins or accounts. This role will have the same permissions level in the system as the PSAP Administrator.
Data Importer(s)	This role is established for a person who will be providing GIS data updates to the repository system. This role can be assigned to a PSAP staff member, county GIS department staff member or a vendor. This role is typically assigned to the person who is maintaining the GIS data.
Data Exporter(s)	This role is established for a person who will be extracting GIS data from the repository for 911 purposes on a regular basis. For example, the data exporter might be the person who typically integrates GIS data with existing CAD systems.
Restricted Administrator	This role is established as a ‘view only’ for PSAPs that are not a branch of the government which is party to the ‘memorandum of understanding’ for the 911 GIS Repository.

911 User Request

STATE OF MICHIGAN GIS REPOSITORY USER REQUEST

To register application users, the PSAP Director must provide the information in this table and return it via e-mail to armitagem@michigan.gov or fax it to (517) 241-0387, Attn: Mr. Michael Armitage. A description of each role is provided below the table.

911 Repository Role	Name	Organization	Email and phone #
PSAP Administrator			
Alternate PSAP Administrator(s) (Optional)			
Data Importer(s)			
Data Exporter(s)			
Restricted Administrator			

Name: Signature:

If you have any questions or concerns about this process, please contact:
Mr. Michael Armitage, armitagem@michigan.gov at MSP at (517) 241-2809, fax (517) 241-0387 or
Mr. Mark Holmes, holmesm3@michigan.gov at CSS at (517) 373-7910, fax (517) 373-2939.

PSAP Administrator – This role is established for the person who will be managing the accounts for the users within a specific PSAP jurisdiction. This role will typically be assigned to the 911 Director. This access is limited to PSAPs that are a branch of the entity that is party to the 'memorandum of understanding' for the 911 GIS Repository.

Alternate PSAP Administrator(s) (optional) – This role is established for a person to provide a backup role to the PSAP Administrator for assigning logins or accounts. This role will have the same permissions level in the system as the PSAP Administrator.

Data Importer(s) – This role is established for a person who will be providing GIS data updates to the repository system. This role can be assigned to a PSAP staff member, county GIS department staff member or a vendor. This role is typically assigned to the person who is maintaining the GIS data.

Data Exporter(s) – This role is established for a person who will be extracting GIS data from the repository for 911 purposes on a regular basis. For example, the data exporter might be the person who typically integrates GIS data with existing CAD systems.

Restricted Administrator. This role is established as a 'view only' for PSAPs that are not a branch of the government which is party to the 'memorandum of understanding' for the 911 GIS Repository.

Single Sign-On

- State of Michigan employees
 - <https://miloginworker.michigan.gov>
- Non-State of Michigan employees
 - <https://milogintp.michigan.gov>



HELP CONTACT US

MILogin for Third Party

Login to your account

User ID

Password

Password

LOGIN

SIGN UP

[Forgot your User ID?](#)

[Need Help?](#)

[Forgot your password?](#)

Single Sign-On

MILogin for Third Party

HOME

Create Your Account



Profile Information

Enter your profile information

* Required

* First Name	Middle Initial	* Last Name	Suffix
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
* Email Address	* Confirm Email Address		
<input type="text"/>	<input type="text"/>		
* Work Phone Number	Mobile Number		
<input type="text"/>	<input type="text"/>		
* Verification Question: What is forty six thousand and fifty eight as a number?			
<input type="text"/>			
<input type="checkbox"/> I agree to the terms & conditions.			

NEXT

RESET

Single Sign-On

MILogin for Workers

HOME

REQUEST ACCESS

UPDATE PROFILE

LOGOUT

Request Access



Search Application

Search for an application with a keyword or select an agency to view its applications

Search application



-- Select Agencies --

Single Sign-On



MILogin for Workers

 HOME

 REQUEST ACCESS

 UPDATE PROFILE

 LOGOUT

<NAME>

Home Page

Access your applications by clicking on the application links below



Michigan State Police (MSP)

911 GIS Data Repository

Region Administration Tools

Administration

Regions

Users

Click the left arrow to view region members, click the user name to set permissions, click the region name to add or remove users.

▶ Alcona County Central Dispatch

▼ Alger County Sheriff Department

Laura L Blastic



Mark E Holmes



Matt Waldron



Michael P Armitage



Robert J Hughes



Todd Brock



▶ Allegan County Central Dispatch

Set Permissions for Jeffrey Bracket

Permission	Region	Roads	Structures	Emergency Service Zones
<u>View Current</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>View Pending</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can View</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can Edit</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can Import</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can Export</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Check All</u>				

Save Cancel

Region Administration Tools

Administration

Regions Users

Click the left arrow to view region members, click the user name to set permissions, click the region name to add or remove users.

Alcona County Central Dispatch

Jeffrey Bracket



Laura L Blastic



Mark E Holmes



Michael P Armitage



Alger County Sheriff Department

Allegan County Central Dispatch

Alcona County Central Dispatch

Search Type: Full Name Email

michael



Michael P Armitage, armitagem@michigan.gov, State of Michigan, 911 Dispatch

Michael Thompson, mthompson@otsegocountymi.gov, Otsego County Central Dispatch, 911 Dispatch

✓ A notification will be sent

Region Administration Tools

Regions

Users

Click the left arrow to view region members, click the user name to set permissions, click the region name to add or remove users.

Alcona County Central Dispatch

- Jeffrey Bracket 
- Laura L Blastic 
- Mark E Holmes 
- Michael P Armitage 

- ▶ Alger County Sheriff Department
- ▶ Allegan County Central Dispatch
- ▶ Alpena County Central Dispatch
- ▶ Antrim County Central Dispatch
- ▶ Arenac County Central Dispatch
- ▶ Baraga County
- ▶ Barry County Central Dispatch
- ▶ Bay County Central Dispatch
- ▶ Benzie County Sheriff Department
- ▶ Berrien County Public Safety Communications Center
- ▶ Branch County Central Dispatch

Alcona County Central Dispatch

Search Type: Full Name Email


You've selected the following users to add to Alcona County Central Dispatch

- Michael Thompson 
mthompson@otsegocountymi.gov

Permissions

Permission	Region	Roads	Structures	Emergency Service Zones
<u>View Current</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>View Pending</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Can View</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Can Edit</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Can Import</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Can Export</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Check All

 A notification will be sent

Region Administration Tools: Permissions

Administration

Regions

Users

Click the left arrow to view region members, click the user name to set permissions, click the region name to add or remove users.

▶ Alcona County Central Dispatch

▼ Alger County Sheriff Department

Laura L Blastic



Mark E Holmes



Matt Waldron



Michael P Armitage



Robert J Hughes



Todd Brock



▶ Allegan County Central Dispatch

Set Permissions for Matt Waldron

Permission	Region	Roads	Structures	Emergency Service Zones
<u>View Current</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>View Pending</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Can View</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can Edit</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can Import</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can Export</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Check All</u>				

Save

Cancel

PSAP Administration:

Remove User from PSAP

- ◆ Removing User Accounts
 - Rights are removed by PSAP Administrator
 - Account is Disabled by System Administrator – request needs to be submitted by PSAP Administrator
 - Can be Re-Enabled If User Goes to Work at Another PSAP

Removing User Accounts

Administration

Regions

Users

Click the left arrow to view region members, click the user name to set permissions, click the region name to add or remove users.

▶ Alcona County Central Dispatch

▼ Alger County Sheriff Department

Laura L Blastic



Mark E Holmes



Matt Waldron



Michael P Armitage



Robert J Hughes



Todd Brock



▶ Allegan County Central Dispatch

Set Permissions for Matt Waldron

Permission	Region	Roads	Structures	Emergency Service Zones
<u>View Current</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>View Pending</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Can View</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can Edit</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can Import</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Can Export</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Check All</u>				

Save

Cancel

Removing User Accounts

Administration

Regions Users

Click the left arrow to view region menu, click the user name to set permissions, click the plus icon to add or remove users.

- ▶ Alcona County Central Dispatch
- ▼ Alger County Sheriff Department
 - Laura L Blastic
 - Mark E Holmes
 - Matt Waldron** ❌
 - Michael P Armitage 👤
 - Robert J Hughes 👤
 - Todd Brock 👤
- ▶ Allegan County Central Dispatch
- ▶ Alpena County Central Dispatch

Remove this user

Remove Matt Waldron from Alger County Sheriff Department?

Yes, remove this user or No, Don't remove

CLOSE ✕

	Roads	Structures	Emergency Service Zones
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Can Edit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Can Import	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Can Export	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Check All			
Save	Cancel		

PSAP Administration Tools

◆ Requesting Data Export Rights for User

PSAP A



PSAP B



PSAP Administrator

Sends Request for CAD Administrator to have Export Rights for Neighboring County



PSAP Administrator

Receives Email to Log into System and Grant User Export Rights to PSAPs Data

PSAP Administrator and CAD Administrator Receive Status Email



PSAP Administrator Approves or Denies Export Privileges

PSAP Administration: Requesting Permission

Administration

Regions

Users

Below are users currently assigned to one or more of your regions. You may, edit a user's information, request access to another PSAP, deactivate the user, or create a new user. Note that newly created users will not display in this list until they are assigned to a region.

 New User

Name	Email	Organization	Type	Phone Number	Active
Amy L Beach		Ogemaw County Central Dispatch	911 Dispatch	989-345-4911 	  
Andrew Giguere		Leelanau County	County GIS Contact	231-256-8152 	  
Andrew Hartwick		St Clair County Central Dispatch	County GIS Contact	269-467-5576 	  
Ann Gasperich		Keweenaw County	911 Dispatch	906-337-3471 	  
April Heinze		Eaton County Central Dispatch	911 Dispatch	517-543-4924 	  

PSAP Administration: Requesting Permission

Administration

Regions

Users

Request access for Amy L Beach to another Region.

Access: Import Edit Export

Feature: Region Roads Structures ESZs

Region: Alcona County Central Dispatch

Comments:

PSAP Administration: USERS

Administration

Regions

Users

Below are users currently assigned to one or more of your regions. You may, edit a user's information, request access to another PSAP, deactivate the user, or create a new user. *Note that newly created users will not display in this list until they are assigned to a region.*

 New User

Name	Email	Organization	Type	Phone Number	Action
Amy L Beach		Ogemaw County Central Dispatch	911 Dispatch	989-345-4911 	  
Andrew Giguere		Leelanau County	County GIS Contact	231-256-8152 	  
Andrew Hartwick		St Clair County Central Dispatch	County GIS Contact	269-467-5576 	  
Ann Gasperich		Keweenaw County	911 Dispatch	906-337-3471 	  
April Heinze		Eaton County Central Dispatch	911 Dispatch	517-543-4924 	  



PSAP Administration: USERS

Administration

Regions Users

User Information

Contact Info

Email *

First Name *

Middle Initial

Last Name *

Organization

Type

Phone *

Active

Notify user

View or add comments to notification

Data Sharing and Agreements

- ◆ Enhanced Access to Public Records Act
 - DTMB Policy Developed Specific to Project
 - Local Participant Will Need a Local Enhance Access to Public Records Act Policy
 - Project Can Provide Examples of Enhance Access to Public Records Act Policies – If Local Participant Does Not Have One in Place
- ◆ Memorandum of Agreement Between CSSTP and Each Participating Entity
 - Outlines Roles and Responsibilities of CSSTP and Participants
 - Established Disclaimers for Data Sharing
 - Signed Agreement

Data Sharing and Agreements

- ◆ Exported Data Can Only Be Used for 9-1-1 and Public Safety Purposes

The purpose of this MOA is to establish a mutual framework governing the respective organizational relationships, responsibilities, and activities between the parties. This agreement is for the utilization of GIS data for 9-1-1 and public safety purposes within a statewide 9-1-1 GIS repository developed by CSSTP (9-1-1 GIS Program). |

Data Requests - FOIA

- ◆ Third Party Requests Data From CSSTP



Third Party Makes a FOIA Request for Data Covering 6 jurisdictions



CSSTP



CSSTP References Local Enhanced Access to Public Records Policy For GIS Data Fee Schedules

Fees are totaled for all 6 jurisdictions plus any administration fees and third party must pay CSSTP to receive data extract

Data Requests - FOIA

- ◆ Third Party Requests Data From CSSTP



Once third party pays costs
CSSTP releases data to third party



Local fees are reimbursed by
CSSTP to each local jurisdiction

Data Requests - FOIA

◆ Third Party Requests Data From a Local Jurisdiction



Third party makes a FOIA request for data covering 6 other jurisdictions that the local jurisdiction has downloaded into its local systems

Local Jurisdiction



Local Jurisdiction References Local Enhanced Access to Public Records Policy For GIS Data Fee Schedules

Fees are totaled for all 6 jurisdictions plus any administration fees and third party must pay local jurisdiction to receive data extract

Data Requests - FOIA

- ◆ Third Party Requests Data From Local Jurisdictions



Once third party pays costs local jurisdiction releases data to third party



Local fees are reimbursed by local jurisdiction that received the request to each of the 6 other local jurisdictions



Data Viewer

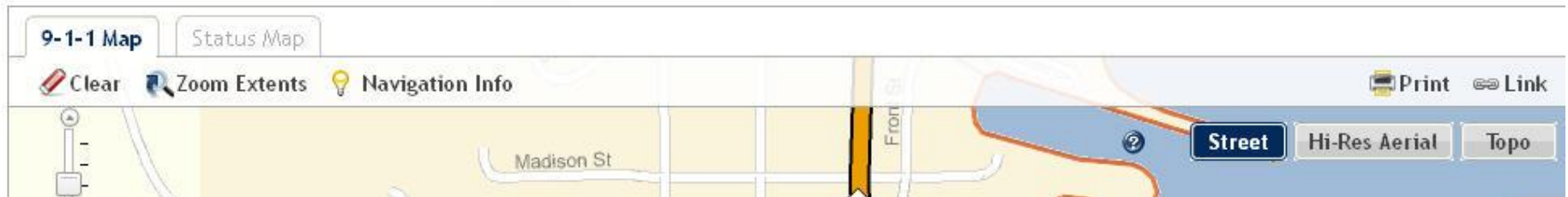
◆ Potential Uses

- Only available for public safety via secure log in
- The data viewer could benefit PSAPs where mapping does not currently exist for dispatch
- The data viewer can be used to search addresses in other jurisdictions
- Supplemental map to existing systems
- Accessible via wireless in field or mobile command
- Can be accessed in an EOC during large incident crossing multiple jurisdictions



Data Viewer






Demonstration

Data Viewer



Data Viewer

Search an address, city, zip, and more  



    






Layers

Toggle layer visibility by clicking the corresponding checkbox. Edit features on a layer by clicking the edit icon.

- Emergency Service Zone
- Structure
- Centerline
- PSAP
- Staged Data
- Sketches

Data Viewer

County & PSAP Coordinate

Zoom

Zoom enables users to quickly navigate to a map location.

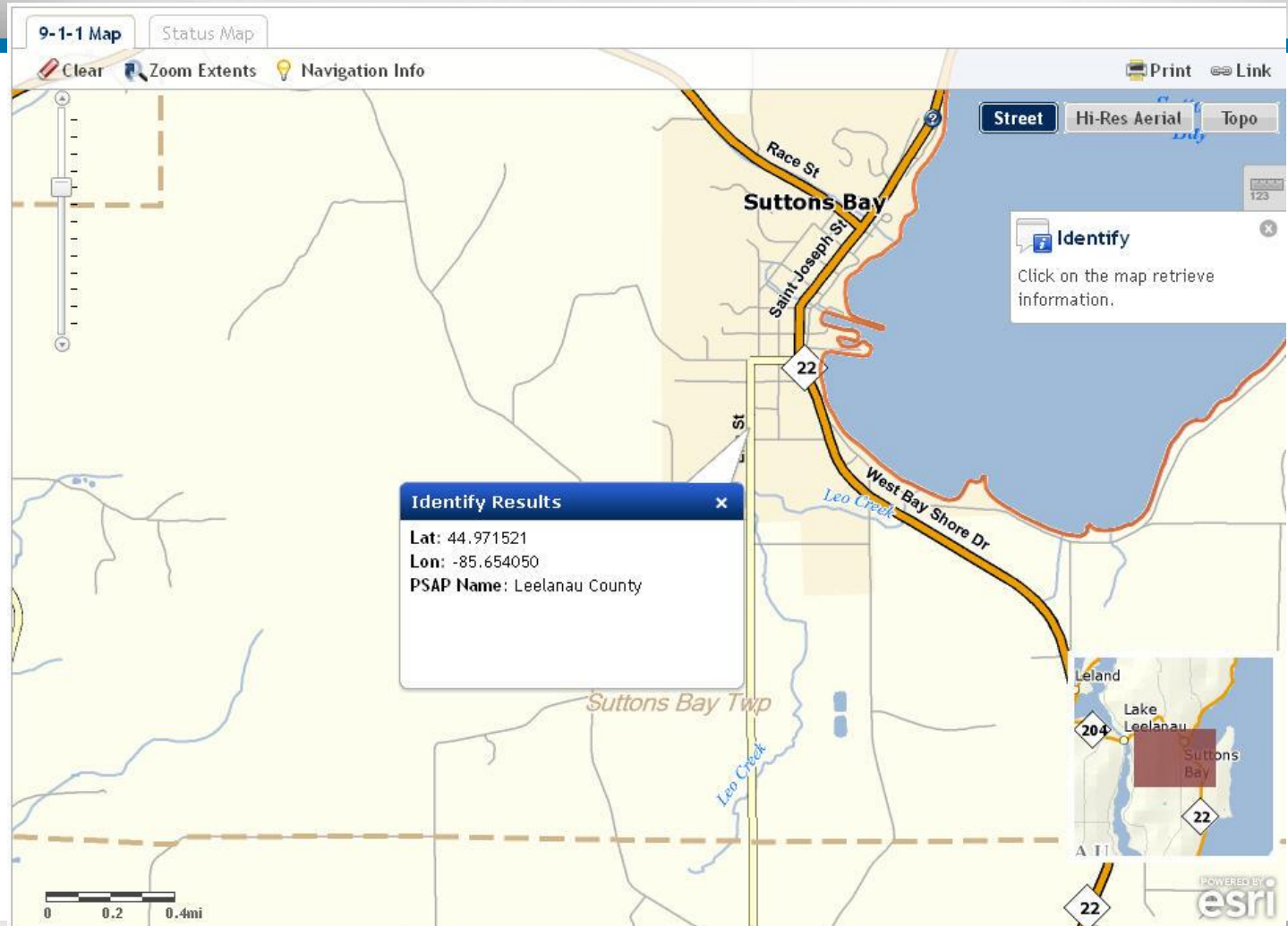
County & PSAP

Select a county or PSAP from the list boxes below. If you choose a county first, the PSAP list will only contain PSAP's within the selected county.

County

PSAP

Data Viewer



Data Viewer

The screenshot displays a web-based GIS application interface. At the top left, there are tabs for "9-1-1 Map" and "Status Map", along with buttons for "Clear", "Zoom Extents", and "Navigation Info". The main map area shows Suttons Bay, Michigan, with streets like Race St, Saint Joseph St, and West Bay Shore Dr, and features like Leo Creek. A red line is drawn on the map, and a tooltip says "Press down to start and let go to finish". A scale bar at the bottom left indicates 0, 0.2, and 0.4 miles. On the right side, there are buttons for "Street", "Hi-Res Aerial", and "Topo", and "Print" and "Link" icons. A "Measure" tool window is open, showing instructions: "The Measure tool draws a line or a polygon and calculates the distance based on the current map scale. Select the point tool to get Lat/Lon coordinates". Below the instructions are icons for different measurement tools. The "Select Your Unit of Measurement" dropdown is set to "Miles". The "Measurement Results" section shows "0.499 Miles" and the coordinates "803.029 16508.3455". An inset map at the bottom right shows the location of Suttons Bay within Leelanau County and Lake Leelanau, with a red box highlighting the area shown in the main map. The Esri logo is visible in the bottom right corner.

9-1-1 Map Status Map

Clear Zoom Extents Navigation Info

Print Link

Street Hi-Res Aerial Topo

Measure

The Measure tool draws a line or a polygon and calculates the distance based on the current map scale. Select the point tool to get Lat/Lon coordinates

Select Your Unit of Measurement

Miles

Measurement Results:

0.499 Miles
803.029 16508.3455

Press down to start and let go to finish

Leelanau County [3442]

Suttons Bay Twp

Leo Creek

Race St

Suttons Bay

Saint Joseph St

West Bay Shore Dr

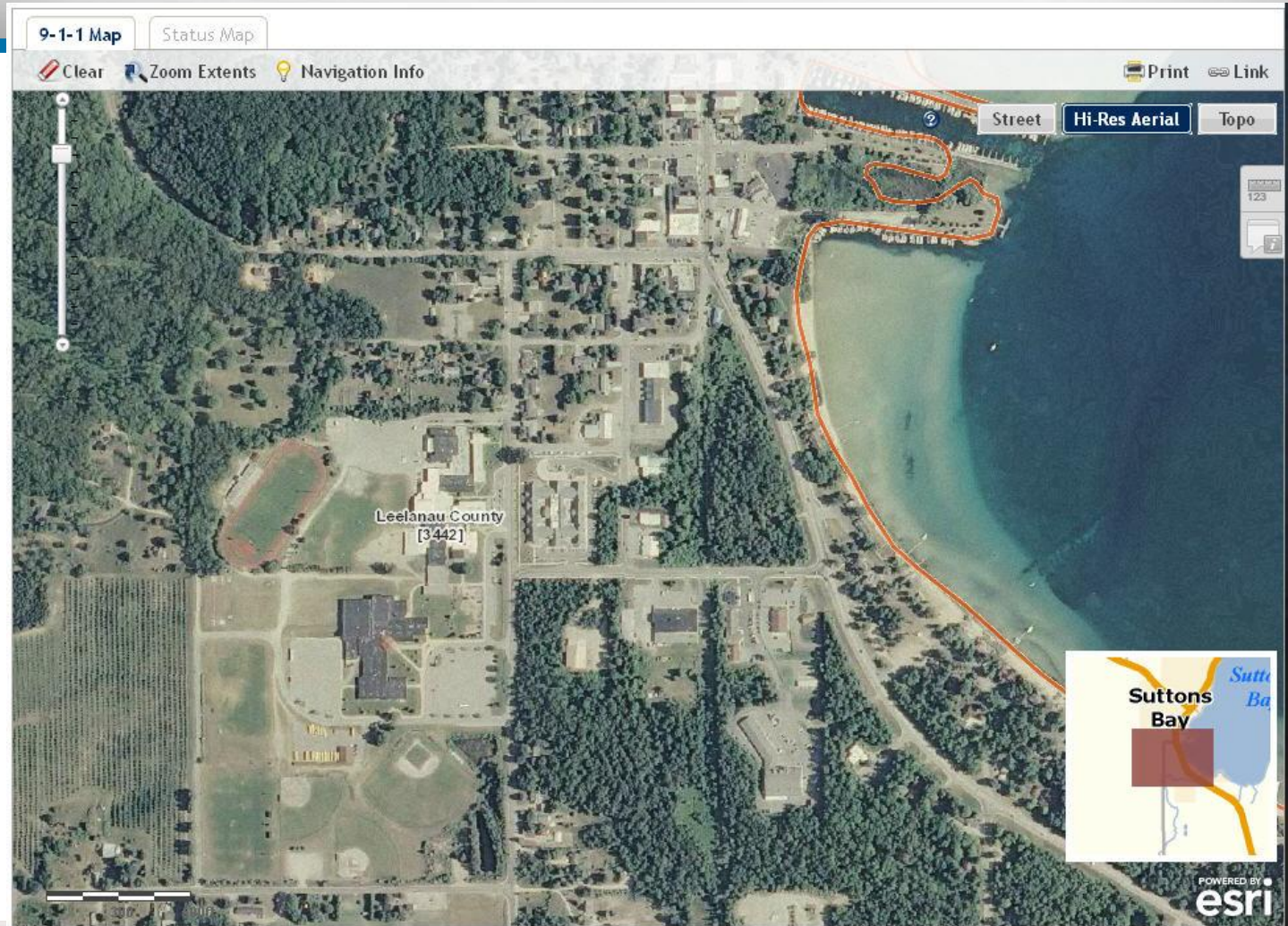
Leland

Lake Leelanau

Suttons Bay

esri

Data Viewer



Data Viewer

◆ Map Symbology

- Populate FCC Codes
- Populate RDCLASS Field
- Outlined in addressing guide

Data Viewer



Search an address, city, zip, and more

9-1-1 Map | Status Map | [Clear](#) | [Zoom Extents](#) | [Navigation Info](#) | [Print](#) | [Link](#)

Street | Hi-Res Aerial | Topo

Layers
Toggle layer visibility by clicking the corresponding checkbox. Edit features on a layer by clicking the edit icon.

- Emergency Service Zone
- Structure
- Centerline
- PSAP
- Staged Data
- Sketches

Import Data

- ◆ Road centerlines
- ◆ MSAG – only for validation against new centerline layer being uploaded
- ◆ Emergency Service Zones – Optional
 - Beneficial for Mutual Aid
 - Will be beneficial for NG9-1-1 and interoperability
- ◆ Site Structure Points – Optional
 - Can be partial layer

Import Data

Demonstration

Import Data

9-1-1 Map
Status Map

Clear
Zoom Extents
Navigation Info

Workflow

Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.

Export Data
Import Data

Task	Step	Status	Date	Update
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Pending	09/06/2012	+
Export	End	Complete	09/06/2012	+
Export	End	Complete	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Errors	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Export	End	Complete	09/06/2012	+
Import	QA/QC	Flags	08/29/2012	+
Import	QA/QC	Pending	08/29/2012	+
Edit	Approval	Pending (1)	08/20/2012	+
Export	End	Complete	08/20/2012	+



Import Data

Search an address, city, zip, and more

9-1-1 Map Status Map Data Wizard

able and click on 'Next' to continue.



Workflow

Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.

Export Data Import Data

Task	Step	Status	Date	Update
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Pending	09/06/2012	+
Export	End	Complete	09/06/2012	+
Export	End	Complete	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Errors	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Export	End	Complete	09/06/2012	+
Import	QA/QC	Flags	08/29/2012	+
Import	QA/QC	Pending	08/29/2012	+
Edit	Approval	Pending (1)	08/20/2012	+
Export	End	Complete	08/20/2012	+
Change	Approval	Pending (1)	08/16/2012	+

Select a layer and upload files

Select a PSAP of the data: Clare County Central Dispatch

Select a layer to upload: ROAD CENTERLINES

Select files (.dbf, .prj, .shp, and .shx):



Next >>

Select file(s) to upload by msp911.kimballdata.com

Look in: Application Test

Name	Date modified	Type
Alcona_Roads.dbf	6/19/2012 8:49 PM	DBF File
ClareRds.dbf	9/6/2012 3:57 PM	DBF File
ClareRds.prj	7/2/2012 10:03 PM	PRJ File
ClareRds.shp	9/6/2012 3:57 PM	SHP File
ClareRds.shx	9/6/2012 3:57 PM	SHX File
Roads.prj	3/27/2012 6:25 PM	PRJ File
roads.shp	6/19/2012 8:49 PM	SHP File
roads.shx	6/19/2012 8:49 PM	SHX File

File name: "ClareRds.shx" "ClareRds.dbf" "ClareRds.prj" "
Files of type: *.dbf;*.prj;*.shp;*.shx

Open Cancel

Import Data

9-1-1 Map

Status Map

Data Wizard

and click on 'Next' to continue.

Please match data fields.

ROAD CENTERLINES

Match Fields

<u>Repository Standards</u>	<u>Your Shapefile Fields</u>
SOURCE (type:A) *	SOURCE
DATEUPD (type:D) *	DATEUPD
EFFDATE (type:D)	
RCLID (type:A) *	RCLID
COUNTRY (type:A) *	COUNTRY
STATE_L (type:A) *	STATE_L
STATE_R (type:A) *	STATE_R
COUNTY_L (type:A) *	COUNTY_L
COUNTY_R (type:A) *	COUNTY_R
MUNI_L (type:A) *	MUNI_L
MUNI_R (type:A) *	MUNI_R
MCDDIV_L (type:A) *	
MCDDIV_R (type:A) *	
UNCORP_L (type:A)	
UNCORP_R (type:A)	

Import Data

Search an address, city, zip, and more

No features

Workflow

Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.

[Export Data](#) [Import Data](#)

Task	Step	Status	Date	Update
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Pending	09/06/2012	+
Export	End	Complete	09/06/2012	+
Export	End	Complete	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Errors	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Export	End	Complete	09/06/2012	+
Import	QA/QC	Flags	08/29/2012	+
Import	QA/QC	Pending	08/29/2012	+
Edit	Approval	Pending (1)	08/20/2012	+
Export	End	Complete	08/20/2012	+

9-1-1 Map | Status Map | **Workflow Details** | Data Wizard | [to continue](#)


Centerline QA/QC Report (Flag Summary)

Flag Name	Flags	Exceptions
Record_Count	3849	0
MUNI_LR_IsEmpty	1	0
EFFDATE_DatatypeNotValid	3849	0
LOGreaterThanHl	24	0
RangeContainsAllZeros	213	0
RangeParityInvalid	8	0
RangeOverlap	65	0
STSNoMatch	1	0
FlippedRange	12	0

Select a Flag Name above to see all records that failed that scrub.

Export with No Data (flags only): [Excel](#) [CSV](#)

Export with Data: [Excel](#) [CSV](#)



Import Data

Search an address, city, zip, and more

9-1-1 Map

Status Map

Workflow Details

Data Wizard

Continue

No Feat

Workflow

Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.

Export Data

Import Data

Task	Step	Status	Date	Update
Import	QA/QC	Flags	09/08/2012	+
Import	QA/QC	Errors	09/08/2012	+
Import	QA/QC	Errors	09/08/2012	+
Export	End	Complete	09/08/2012	+
Export	End	Complete	09/08/2012	+
Export	End	Complete	09/08/2012	+
Edit	End	Deleted	09/07/2012	+
Edit	Approval	Pending (1)	08/27/2012	+
Change	Approval	Pending (1)	08/21/2012	+
Edit	Approval	Pending (5)	08/20/2012	+
Change	Approval	Pending (10)	08/20/2012	+

Flagged Records

Displaying records that failed the Flag: RangeOverlap

[Back to Summary](#)

[First](#)

[Previous](#)

Page 1 of 4

20

[Next](#)

[Last](#)

Record Count: 65

RCLID	Street	Left Community	Right Community	LLO	LHI	RLO	RHI	Exception
1981	W ASHARD RD	FREEMAN TWP	FREEMAN TWP	7501	7989	7500	7988	0
1982	W ASHARD RD	FREEMAN TWP	FREEMAN TWP	6001	6299	6000	6298	0
1983	W ASHARD RD	FREEMAN TWP	FREEMAN TWP	6301	6549	6300	6548	0
1984	W ASHARD RD	FREEMAN TWP	FREEMAN TWP	6551	6699	6550	6698	0
1987	W ASHARD RD	FREEMAN TWP	FREEMAN TWP	6051	6999	6050	6998	0
3346	W ASHARD RD	FREEMAN TWP	FREEMAN TWP	7501	7989	0	0	0
3318	BEECH TREE	SURREY TWP	SURREY TWP	3131	3199	3130	3200	0
3320	BEECH TREE	SURREY TWP	SURREY TWP	3131	3149	3130	3148	0
3147	S CLARE AVE	GRANT TWP	GRANT TWP	9041	9999	9040	9998	0
841	S CLARE AVE	GRANT TWP	GRANT TWP	9001	9939	9000	9938	0
3380	N CORNING ST	FARWELL	FARWELL	171	299	170	298	0
2414	N CORNING ST	FARWELL	FARWELL	1	199	2	198	0
3145	S EBERHART AVE	GRANT TWP	GRANT TWP	11911	11999	11900	11998	0
842	S EBERHART AVE	GRANT TWP	GRANT TWP	11001	11909	11000	11908	0
1027	FIVE LAKES DR	GRANT TWP	GRANT TWP	7401	7579	7400	7578	0
3096	FIVE LAKES DR	GRANT TWP	GRANT TWP	7581	7749	7580	7748	0

Import Data

◆ Exception Field

- Add a field called EXCEPTION to your local data – Long Integer Data Type

Exception Code	Exception Description
1	Limited Access Highway Features
2	Driveways or Non-Addressable Feature
3	Legacy Addressing Scenario
4	Local Road Naming Convention
5	Value Falls Outside of Jurisdiction
6	Correction Pending Local Review
7	Overlapping Segment Is Valid

Import Data

- ◆ RCLIDs – Need to be populated and unique
 - Can use any local unique ID locally needs to be compatible for upload into alphanumeric field type with a 50 character limit
 - Populate using OBJECTID or FID during import process or calculate that field to OBJECTID or FID in your local data

Import Data

- ◆ QA/QC check similar to data assessments that were run as part of grant project
- ◆ Additional field checks during import
 - Jurisdiction values
 - Source and date of update
- ◆ Critical Errors – That would prevent loading of data – no projection file, no RCLID, data types

Export Data

- ◆ User needs to have been assigned export rights to export any other jurisdiction's dataset
- ◆ PSAP Administrator must initiate request for one of their users to have export rights to neighboring jurisdiction's data
- ◆ PSAP Administrators have export rights to all dataset as a system setting
 - Allows for access to datasets in case of large emergency event

Export Data

Demonstration

Export Data



911 GIS Data Repository

Search an address, city, zip, and more



Workflow

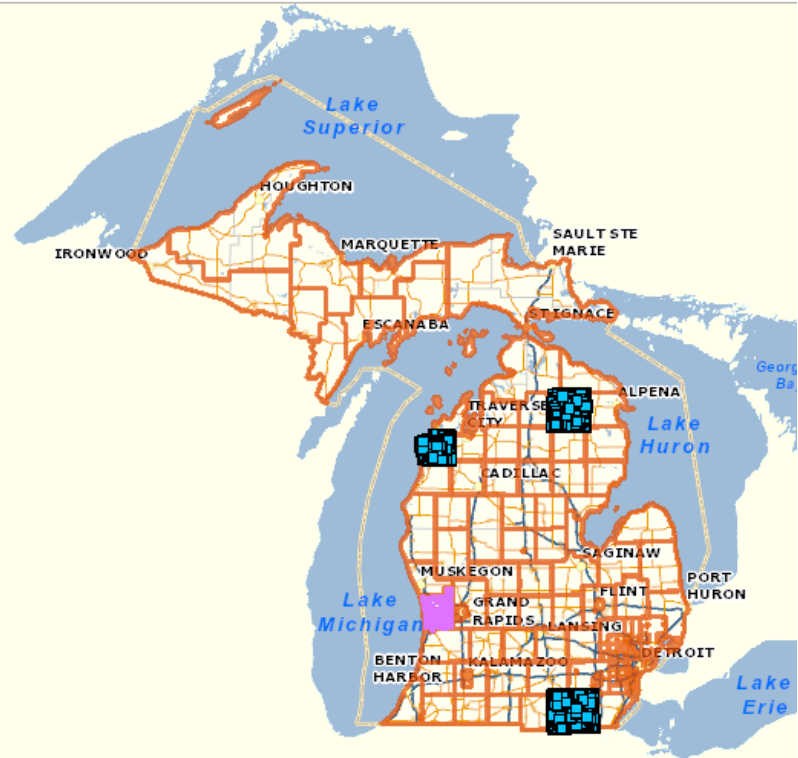
Listed below are tasks that were created by your edits to the geographic data or by changes other users have made that need your approval.

Export Data Import Data

Task	Step	Status	Date	Update
Export	End	Pending	08/14/2015	
Export	End	Complete	01/16/2015	
Export	End	Complete	01/16/2015	
Edit	End	Deleted	10/28/2013	
Export	End	Pending	02/12/2013	
Export	End	Pending	02/12/2013	
Export	End	Pending	02/12/2013	
Export	End	Complete	10/18/2012	

911 Map Status Map

Clear Zoom Extents Navigation Info



0 50 100mi

Export Data



911 GIS Data Repository



Search an address, city, zip, and more

911 Map | Status Map | **Data Wizard**



Workflow

Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.

Export Data | Import Data

Task	Step	Status	Date	Update
Export	End	Pending	08/14/2015	[Folder Icon]
Export	End	Complete	01/16/2015	[Folder Icon]
Export	End	Complete	01/16/2015	[Folder Icon]
Edit	End	Deleted	10/28/2013	[Folder Icon]
Export	End	Pending	02/12/2013	[Folder Icon]
Export	End	Pending	02/12/2013	[Folder Icon]
Export	End	Pending	02/12/2013	[Folder Icon]
Export	End	Complete	10/18/2012	[Folder Icon]

Map interface showing Michigan with county boundaries. A red arrow points to the 'Select Shapes' button. Below the map are buttons for 'Select Shapes', 'Clear Selection', and a checkbox for 'Download for whole MI State'. The map is powered by Esri.

- 1 Extract Type:
Map
- 2 Layer to download (required):
Required Select
- 3 Select Shapes on Map (required):
[Select Shapes] [Clear Selection]
[Download] Press down to start and let go to finish
- 4 [Next]

You have permissions to export highlighted counties.
For areas that are not highlighted contact your administrator for access.

Export Data



911 GIS Data Repository

Search an address, city, zip, and more



911 Map

Status Map

Data Wizard



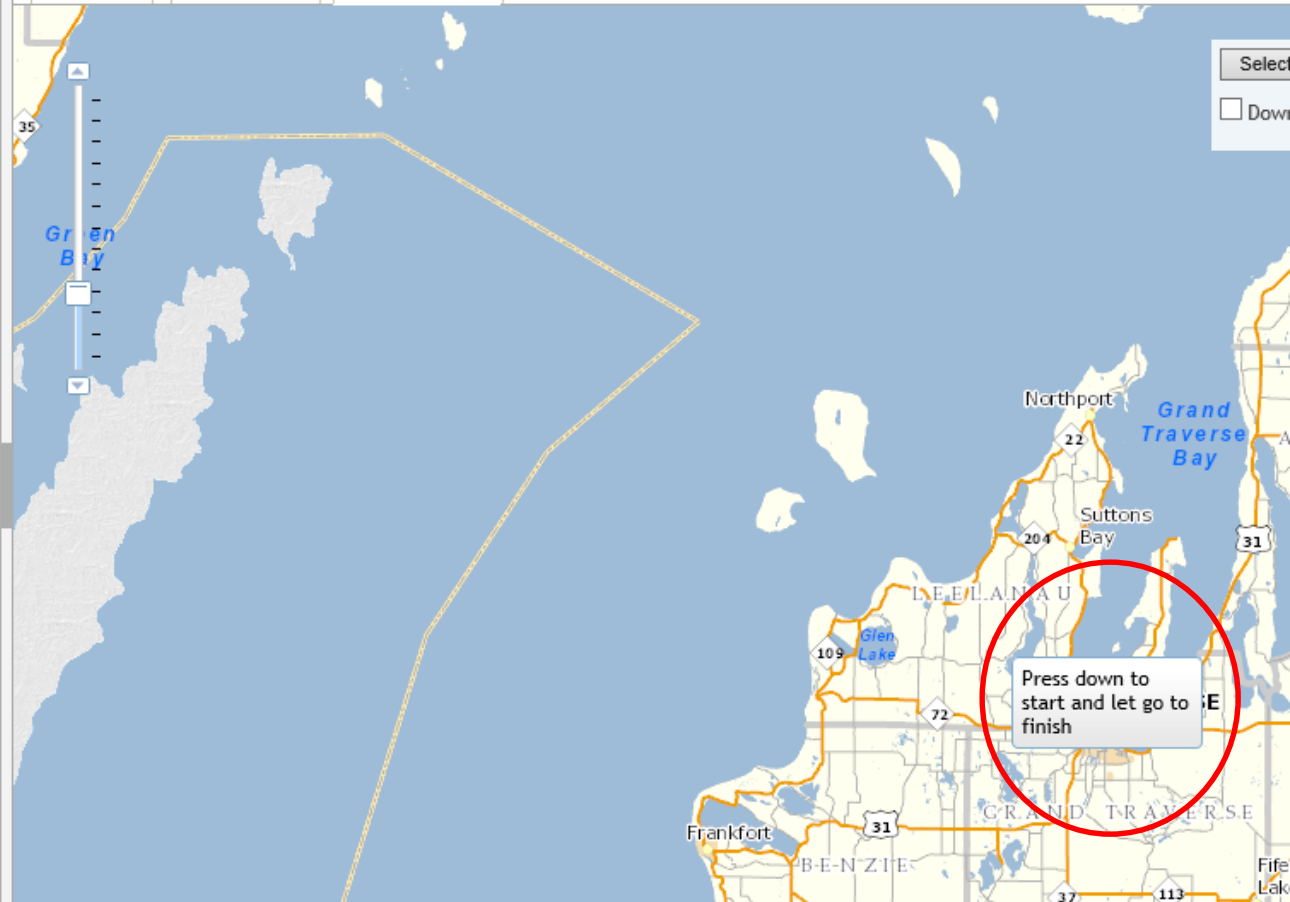
Workflow

Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.

Export Data

Import Data

Task	Step	Status	Date	Update
Export	End	Pending	08/14/2015	
Export	End	Complete	01/16/2015	
Export	End	Complete	01/16/2015	
Edit	End	Deleted	10/28/2013	
Export	End	Pending	02/12/2013	
Export	End	Pending	02/12/2013	
Export	End	Pending	02/12/2013	
Export	End	Complete	10/18/2012	



Export Data

Export Data

9-1-1 Grant Project Web Site

Search an address, city, zip, and more

9-1-1 Map | Status Map | Workflow Details | **Data Wizard** | [Go to continue.](#)

No features

Workflow

Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.

[Export Data](#) | [Import Data](#)

Task	Step	Status	Date	Update
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Pending	09/06/2012	+
Export	End	Complete	09/06/2012	+
Export	End	Complete	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Errors	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Export	End	Complete	09/06/2012	+
Import	QA/QC	Flags	08/29/2012	+
Import	QA/QC	Pending	08/29/2012	+

Select a layer and the extent for extraction

1. Layer to download: ROAD CENTERLINES 2. Data Extent for extraction from: PSAP list

Your rights to download
You are a PSAP administrator. You can download any layers of any PSAPs.

(1) Select Counties

- Iron
- Isabella**
- Jackson
- Kalamazoo

(2) Select PSAPs

- Clare County Central Dispatch
- Isabella County Central Dispatch**

Selected features: Isabella County Central Dispatch

[Next >>](#)

[Michigan.gov Home](#) | [MSP Home](#) | [State Web Sites](#) | [Contact MSP](#)
[Grant Project: Home](#) | [Application Contact](#) | [Geographic Data Library](#)
[Privacy Policy](#) | [Link Policy](#) | [Accessibility Policy](#) | [Security Policy](#) | [Michigan News](#) | [Michigan.gov Survey](#)

Export Data

9-1-1 GIS Grant Project

Search an address, city, zip, and more

9-1-1 Map | Status Map | Workflow Details | **Data Wizard** | to continue.

No features

Workflow

Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.

[Export Data](#) [Import Data](#)

Task	Step	Status	Date	Update
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Pending	09/06/2012	+
Export	End	Complete	09/06/2012	+
Export	End	Complete	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Errors	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Export	End	Complete	09/06/2012	+
Import	QA/QC	Flags	08/29/2012	+
Import	QA/QC	Pending	08/29/2012	+

Please match data fields.

ROAD CENTERLINES

Match Fields

Profile: My download Profile In-reverse from your upload profile

State Geodatabase	Your Shapefile Field	Type
SOURCE (type:A) *	COUNTRY	Alphanumeric
DATEUPD (type:D) *	DATEUPD	Alphanumeric
EFFDATE (type:D) *	EFFDATE	Alphanumeric
RCLID (type:A) *	RCLID	Alphanumeric
COUNTRY (type:A) *	SOURCE	Alphanumeric
STATE_L (type:A) *	STATE_L	Alphanumeric
STATE_R (type:A) *	STATE_R	Alphanumeric
COUNTY_L (type:A) *	COUNTY_L	Alphanumeric
COUNTY_R (type:A) *	COUNTY_R	Alphanumeric
MUNI_L (type:A) *	MUNI_L	Alphanumeric
MUNI_R (type:A) *	MUNI_R	Alphanumeric
MCDDIV_L (type:A) *	MCDDIV_L	Alphanumeric
MCDDIV_R (type:A) *	MCDDIV_R	Alphanumeric

Export Data

Search an address, city, zip, and more



Workflow

Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.

[Export Data](#) [Import Data](#)

Task	Step	Status	Date	Update
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Pending	09/06/2012	+
Export	End	Complete	09/06/2012	+
Export	End	Complete	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Errors	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Export	End	Complete	09/06/2012	+
Import	QA/QC	Flags	08/29/2012	+
Import	QA/QC	Pending	08/29/2012	+

9-1-1 Map | Status Map | Workflow Details | **Data Wizard** | to continue

Select a projection:

Terms and Conditions: As a data exporter you are agreeing to abide by the terms and conditions outlined in the Memorandum of Agreement for this 9-1-1 GIS data repository. The terms of the memorandum of agreement (MOA) outlines that the signed agreement is for the utilization of GIS data for 9-1-1 and public safety purposes within a statewide 9-1-1 GIS repository developed by CSSTP (9-1-1 GIS Program). All terms of GIS data use outlined in your agency's MOA with CSSTP must be adhered to. These include but are not limited to the following requirements:

Data originators participating in the 9-1-1 GIS repository authorize their 9-1-1 GIS data to be used by other PSAPs that are participating in the 9-1-1 GIS Program and who may request regional datasets to be used in their 9-1-1 systems.

In the event that a third party requests data, one of the following three scenarios will also apply:

1) If your agency receives a request for your own data, that request shall be subject to your Enhanced Access to Public Records policy. There is no need for the request to go through or be approved by DTMB/CSSTP.

[<< Previous](#) [Process](#)

Export Data

Search an address, city, zip, and more

9-1-1 Map | Status Map | **Workflow Details** | Data Wizard to continue.



Workflow

Listed below are tasks that were created by your edits to the geography or by changes other users have made that need your approval.

Export Data | **Import Data**

Task	Step	Status	Date	Update
Export	End	Complete	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Pending	09/06/2012	+
Export	End	Complete	09/06/2012	+
Export	End	Complete	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Import	QA/QC	Errors	09/06/2012	+
Import	QA/QC	Flags	09/06/2012	+
Export	End	Complete	09/06/2012	+
Import	QA/QC	Flags	08/29/2012	+

Export Workflow, Created: 9/6/2012 11:06:12 PM

Step	Status	End	System Messages	Workflow Details
Begin	Complete	9/6/2012 11:07:02 PM		
End	Complete	9/6/2012 11:07:02 PM	Data is ready to download. Click here.	

Export Data

- ◆ CAD profiles
- ◆ Working with your CAD vendor to integrate regional maps
- ◆ Review edge-match, when possible and coordinate with neighboring jurisdictions where larger discrepancies exist
- ◆ Data layers – road centerlines, PSAP boundaries, emergency services zones*, structure points* (* incomplete statewide layers)

Red Line Edits- PSAP Boundary

- ◆ PSAP Boundary Change Requests
 - Internal communication must be established at local level for approval process
 - Jurisdictions where Michigan Geographic Framework road centerlines are being use have opportunity to use the PSAP Boundary Change tools to make requests or approve changes since PSAP layer developed for the project is statewide

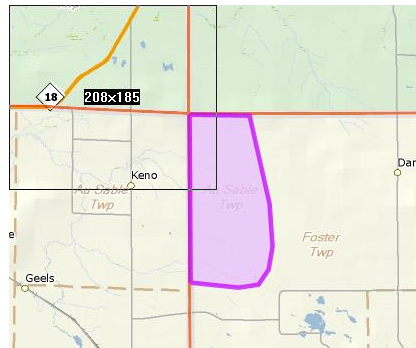
Red Line Tools – PSAP Boundary

◆ Requesting PSAP Boundary Change

PSAP A



PSAP Administrator
Makes Red Line Edit and Starts
Approval Workflow



PSAP B



PSAP Administrator
Receives Email to Log into
System and Approve PSAP Boundary
Change

PSAP Administrator Receives
Status Email

PSAP Administrator
Approves or Denies
PSAP Boundary Change

Red Line Tools – PSAP Boundary

◆ Requesting PSAP Boundary Change

CSSTP



Affected PSAPs



If Approved by All Affected PSAPs. CSSTP Staff Make Boundary Change and Workflow Sent for Final Approval By All PSAPS Affected By Change



PSAP Administrators Receive Email to Log into System and Review Final Boundary Edits And Make Final Approval

PSAP Administrator Receives Status Email



PSAP Administrator Approves or Denies PSAP Boundary Change

Red Line Edits- PSAP Boundary

Demonstration

Red Line Edits – Roads or Points

- ◆ All users can add red line edits for road or structure points
 - Internal protocol for who red lines can be established, if necessary
 - Notification email goes to PSAP admin and GIS importer for the jurisdiction that the red line is drawn
 - If road is drawn across multiple PSAP jurisdictions, PSAP admin and GIS importer from both jurisdictions get notifications

Red Line Edits – Roads or Points

Demonstration

Red Line Edits – Roads or Points

Search an address, city, zip, and more



No feat

Editing Tools

Editing Tools enables users to edit existing or create new workflow.



Please select Add Structure, Add Road, or Add PSAP and then click the map where the feature will appear.

9-1-1 Map Status Map

Clear Zoom Extents Navigation Info

Palmer Creek

Excelsior Twp

Old M 66

72

Kerns Corner

3429

Sigma Rd

Kniss Rd

Saunders Rd

66

Double-click to complete

A screenshot of a GIS application interface. The top left has a search bar and a toolbar with icons for editing. Below that is a section titled 'Editing Tools' with a description and more icons. The main area is a map showing a grid of roads. A red line is being drawn on the map, and a tooltip says 'Double-click to complete'. The map includes labels for roads like 'Old M 66', 'Saunders Rd', 'Sigma Rd', and 'Kniss Rd', and landmarks like 'Kerns Corner' and 'Palmer Creek'. There are also map controls like '9-1-1 Map', 'Status Map', 'Clear', 'Zoom Extents', and 'Navigation Info'.

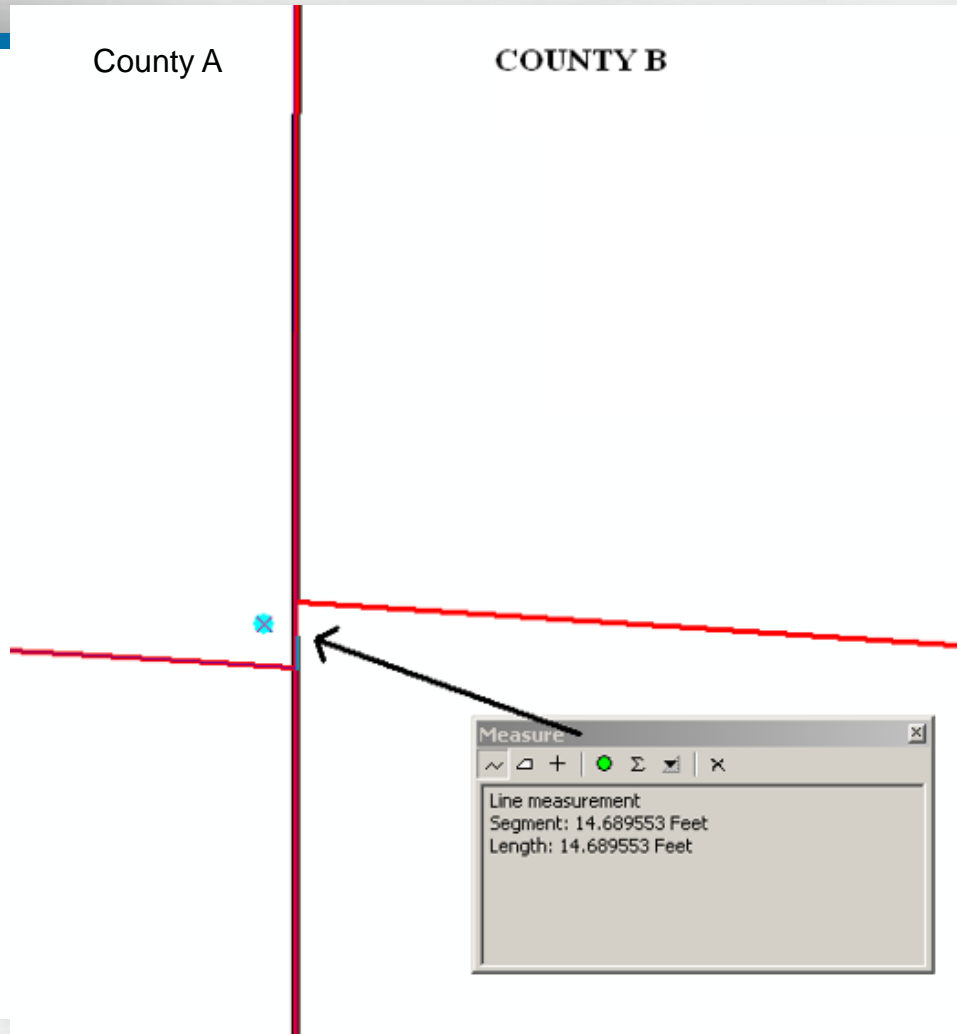
Edge-matching

- ◆ Edge-matching is run during import. Roads are snapped to PSAP boundary layer
- ◆ Continued coordination between jurisdictions for edge-matching and addressing attributes along boundaries is also a NENA recommendation for sustaining long-term 9-1-1 GIS data integrity in preparation for NG9-1-1

Edge-matching



Edge-matching



Addressing Guide

- Guidelines for addressing techniques
- Continue to incorporate standardization
- Road naming guidelines
- Addressing scenarios
- There will be unique local addressing scenarios
- GIS and MSAG synchronization

More Information

- ◆ www.michigan.gov/911GISGrant
- ◆ www.michigan.gov/snc
 - Harriet Miller-Brown
 - Miller-BrownH@michigan.gov
 - 517-243-2075
 - Cindy Homant
 - HomantC@michigan.gov
 - 517-284-3032
 - Mark Holmes
 - HolmesM3@michigan.gov
 - 517-241-6469

Questions

Open Discussion