Indiana CASM Training
March 7, 2011
Agenda & Training Objectives

- **Communication Assets Survey & Mapping (CASM)**
  - Become familiar with CASM tool
  - Learn how Indiana Department of Homeland Security (IDHS) and Integrated Public Safety Commission (IPSC) plan to use CASM

- **Indiana’s CASM Data**
  - Understand how your local information will look in CASM
  - Learn what you will and won’t see in CASM

- **Using CAM to Assess Interoperability**
  - Be able to gain access to CAM
  - Be able to use CAM to assess available communications within your local area and across neighboring communities

- **Questions and Answers**
Communication Assets Survey & Mapping (CASM)

- **CAS** – Database to store all assets across the state that links user agencies with those assets.

- **CAM** – Mapping tool that places information from CAS into a state view. Interoperability can be mapped between agencies or geographies.

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Communication Assets Survey & Mapping (CASM)

What’s new in CASM:

- **Response Level Communications Tool (NECP Goal 2)**
- **Frequency Mapping Tool**
Communication Assets Survey & Mapping (CASM)

What you can see in CASM:

- **Public Safety Agencies:** Police, Fire, Emergency Medical Services (EMS), Emergency Management Agency (EMA), Health, Public Works

- **Statewide, District-level and Local Communications “Assets”**
  - Radio Systems: VHF Low, VHF High, UHF, 800MHz
  - Mutual Aid: Interoperability Channels and Talk Groups
  - Gateways: ACU-1000, ACU-M, Motorola Motobridge, etc. to connect radio operators on different systems (mobile or fixed)
  - Radio Caches: Store of radios that can be deployed to other agencies for special events, incidents, training, etc.
  - Dispatch Centers: Public Safety Answering Points (PSAPs) and other Dispatch Centers
Communication Assets Survey & Mapping (CASM)

What you can see in CASM – *By the Numbers*:

- **Public Safety Agencies** 2,168 agencies

- **Statewide, District-level and Local Communications “Assets”**
  - Radio Systems 659 systems
  - Mutual Aid 322 MA channels
  - Gateways 41 ACU-1000’s or other gateways
  - Radio Caches 68 deployable caches
  - Dispatch Centers 283 dispatch centers
Communication Assets Survey & Mapping (CASM)

How Indiana plans to use CASM:

- As a planning tool for public safety communication agencies

- To populate Tactical Interoperable Communications Plans (TICPs) for each district

- To maintain a repository of communication assets and points of contact
  - **NOTE:** CASM is not a phone directory. For each agency and communication asset, there should be **one** 24/7 phone number and **one** point of contact (name, email, phone, etc.)

- To train and plan activities, especially those that might take place across jurisdictional lines (within the state, or across state lines)
Indiana’s CASM Data

• Primary agencies listed in four major disciplines:
  • Fire:  Fire Departments (FD) and Volunteer Fire Departments (VFD)
  • EMS:  Agencies providing ambulance transport
    • If a fire department has EMS, that agency will be listed twice, once in each discipline (e.g., Advance VFD and Advance VFD/EMS, separately)
    • Private ambulance services will only be listed if they have a public contract to provide transport services
  • Police:  Police and Sheriff’s Departments
  • Other:  EMA

• Other disciplines that you may see for your agencies include:
  • Public Safety Communications: Used for stand-alone PSAPs/Dispatch agencies
  • Health Care:  Hospitals listed separately from EMS listing
  • Public Works
Indiana’s CASM Data (cont.)

• How Indiana Agencies and Assets are named in CASM:
  • If a Township name or Agency name does not include the municipality name, it should ALWAYS have the municipality listed after the agency name (e.g., Adams Twp. VFD (Markleville))
  • Gateways, Dispatch Centers, and Radio Caches have the owner agency name listed, then Asset Name:
    • Gateways: [Owner agency name] ACU-1000
    • Dispatch Centers: [Owner agency name] Dispatch
    • Radio Caches: [Owner agency name] [Frequency] Radio Cache
  • If an agency has multiple locations in a single county, only the central location should be kept in CASM (e.g., FD with multiple stations)
  • Statewide entities are listed once, with local contact information in Points of Contact listings (e.g., Rural Metro Ambulance, ISP)
Indiana’s CASM Data (cont.)

What you won’t see in CASM

- Information included in District TICPs:
  - Communication Van (Mobile Communications Unit) information
  - Amateur Radio points of contact and frequencies
  - District COMLs/Communications Contacts

- Information shared with IPSC and IDHS:
  - Inter-state/inter-district communications MOUs and procedures
    - **NOTE:** CASM data for neighboring states can be made available to Indiana users for interstate exercises (contact IPSC for more information).
  - Feedback regarding interoperable communications
Indiana’s CASM Data (cont.)

Who will have access to CASM?

- IPSC manages access and creates authorized users in CAS and CAM
  - IPSC will handle future data entry and updates
  - Local agencies can request access to CAM (the mapping tool) to see their data and relevant data from neighboring counties, etc.

- Public safety communications personnel can request access to CAM
  - Follow this link: [http://www.in.gov/ipsc/files/User_Application_Form.pdf](http://www.in.gov/ipsc/files/User_Application_Form.pdf) (Completed form should be approved by County EMA)
  - Or, contact Sally Fay at IPSC (sfay@ipsc.in.gov or (317) 234-2572)

- IPSC will grant access to CAS for data entry on a case-by-base basis
  - To request CAS access for data entry, contact Steve Skinner (sskinner@ipsc.in.gov or (317) 233-8625) or Sally Fay at IPSC
Using CAM

Buttons change the display on the screen. Currently, agencies are displayed.

Additional zooming tools, as well as the button to display the map legend.

Functionalities for assessing interoperability that will be discussed in further detail later.

Right click to access the menu for zooming and panning.

For Official Use Only
Finding Agency Specific Information

Agency Information

For Official Use Only

- Agency Name: Carmel PD
- Agency Point of Contact:
  - Fogarty, Mike (Chief)
  - Phone: 317-571-2500
  - Email: 
PDC Type: Agency PDC
- Serves: Carmel
- Interoperability Methods Currently in Use
  - P25 Standards-based Systems
  - P25 Standards-based Systems, potential
  - Shared Channels
  - Shared Channels, potential
- Radio Systems Used:

<table>
<thead>
<tr>
<th>System Name</th>
<th>Number Mobile</th>
<th>Number Handheld</th>
<th>Agency Use of System Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>155.1300 W</td>
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<td>0</td>
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<td>155.3700 W</td>
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<td>861.0125 BCALL90</td>
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</table>

Print Close
Using CAM to Assess Interoperability

• Three Activities
  • Compatibility Button
  • Interoperability Matrix
  • TICP Report Generation

First planning activity:

There’s a police chase, originating in Marion County, continuing on I-69 through Marion, Hamilton and Madison Counties. Using the Compatibility button, determine how these counties can communicate.
The Compatibility Button: Two Agencies
Connect the Dots

If you want to see how two agencies could communicate, draw a line by clicking the cursor on one of the agencies, and then on the other—In the example, Marion Co. Sheriff and Hamilton Co. Sheriff.
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Compatibility Button

After the pop-up box is closed, the line is color-coded to represent the highest level of compatibility.
Compatibility Button: Multiple Agencies

What if you want to know how one agency might be compatible with multiple different agencies?

Same exercise: Traffic chase up I-69 originating in Marion Co.

Right click the map and select “Multiple Compatibility Selection...”
If the Marion Co. Sheriff wants to know interoperability between their radios and both Hamilton Co. and Madison Co. Sheriff
Compatibility Button: Multiple Agencies (cont.)

- Select Hamilton Co. and Madison Co. from the pop-up box
Compatibility between the two selected agencies
Finally, point the cursor on the Marion Co. “P” and the lines will connect the agencies, again showing the highest level of compatibility.
Method 2: Interoperability Matrix

The Interoperability Matrix provides the quickest way to visualize interoperability between pairs of agencies in the State/Urban Area.
### Planning activity:
**Parke County Covered Bridge Festival**

#### Agencies Selected
- All County and municipal Law Enforcement and EMS in Parke County
- Sheriff and EMS in:
  - Clay Co
  - Fountain Co
  - Montgomery Co
  - Vermillion Co
Compatibility Information

For Official Use Only

- Interoperability Methods "Parke Co. Sheriff's Dept. and Vigo Co. Sheriff's Dept." use in Common:
  - P25 Standards-based Systems
    - IPSC - Hoosier SAFE-T - Statewide 800 MHz Trunked
      - D-MA1-LAF - 804075
      - D-MA2-LAF - 804074
      - D-MA3-LAF - 804073
      - H-MA1-TER - 804063
      - H-MA2-TER - 804062
      - H-MA3-TER - 804061
      - I-MA1-PUT - 804060
      - I-MA2-PUT - 804059
      - I-MA3-PUT - 804058
      - SW-CALL - 804085
      - SW-MA1 - 804094
      - SW-MA2 - 804093
      - SW-MA3 - 804092
      - SW-MA4 - 804091
      - SW-MA5 - 804090
      - SW-MA6 - 804089
      - SW-MA7 - 804088
      - SW-MA8 - 804087
      - SW-MA9 - 804086
Method 3: TICP Report Generation

CAM will generate a pre-formatted report for Section 3 and Appendices B-E that may be added to the other components of your TICP Report.
Method 3: TICP Report Generation (cont.)

**Planning activity:** Regional flooding in the Southeast District
1 Indiana Information

1.1 Participating Jurisdictions/Agencies/Disciplines

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clark Co. EMT</td>
<td>Public Safety</td>
</tr>
<tr>
<td>Elkhart Co. EMS</td>
<td>Public Safety</td>
</tr>
<tr>
<td>Elkhart Co. Health Dept</td>
<td>Public Safety</td>
</tr>
<tr>
<td>Elkhart Co. Emergency Mgmt</td>
<td>Public Safety</td>
</tr>
<tr>
<td>Elkhart Co. Sheriff's Dept</td>
<td>Public Safety</td>
</tr>
</tbody>
</table>

For Section 3.1 Shared Systems

<table>
<thead>
<tr>
<th>System Name</th>
<th>Owner Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clark Co. Fire</td>
<td>Clark Co. Sheriff's Dept.</td>
</tr>
<tr>
<td>Elkhart Co.</td>
<td>Elkhart Co. Sheriff's Dept.</td>
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</tbody>
</table>


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### Section 3.1.1 Intra-System Shared Interoperability Channel(s)

<table>
<thead>
<tr>
<th>IPSC - Hoosier SAFE-T - Statewide 800 MHz Trunked</th>
<th>K-MA2-CON</th>
<th>Connersville ISP District Analog Mutual aid, Use as needed</th>
<th>800 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adams Twp. VFD (Greensburg); Austin PD; Bear Branch VFD (Dillsboro); Campbell Twp. VFD (Butlerville); Center Twp. FD (North Vernon); Clarksburg Community VFD (Greensburg); Clay Twp. VFD (Burney); Decatur Co. EMA; Decatur Co. EMS; Decatur Co. Sheriff’s Dept.; East Enterprise VFD; Finley Twp. VFD (Scottsburg); Floyd Co. EMA; Floyd Co. Sheriff’s Dept.; Franklin Co. Sheriff’s Dept.; Geneva Twp. VFD (Scipio); Georgetown PD; Greensburg PD; Greensville PD; Indiana University PD (New Albany); Jefferson/Craig Twp. VFD (Vevay); Jennings Co. EMA; Jennings Co. Rescue 20 EMS; Jennings Co. Sheriff’s Dept.; Jennings Twp VFD (Austin); Johnson Twp. VFD (Lexington); Letts Community VFD (Greensburg); Lexington VFD; Lovett Twp. VFD (North Vernon); Marion Twp. VFD (Milhousen); Montgomery Twp. VFD (Scipio); Moorefield VFD; New Albany FD; New Albany FD/EMS; New Albany PD; New Point PD; New Point VFD; North Vernon PD; Ohio Co. EMA; Ohio Co. EMS; Ohio Co. Sheriff’s Dept.; Patriot VFD; Posey Twp. VFD (Patriot); Randolph Twp VFD (Rising Sun); Rising Sun PD; Scott Co. EMA; Scott Co. EMS; Scott Co. Sheriff’s Dept.; Scottsburg PD; Scottsburg VFD; Spencer Twp. VFD (Hayden); St. Paul PD; St. Paul VFD; Switzerland Co. EMA; Switzerland Co. EMS; Switzerland Co. Sheriff’s Dept.; Vernon Twp. VFD (Vernon); Vevay PD; Vienna Twp. VFD (Scottsburg); Westport PD; Westport VFD; York Twp. VFD (Florence)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Using CAM to Plan for Changes

• What-If Analysis

• Allows user to run scenarios where a new communication asset is added or a communication asset is eliminated

• You can see what happens to your agencies’ communications interoperability if...

  • A tower is eliminated in a storm
  • Your county purchases a new radio system
  • Your agency adds additional channels or talk groups to your radios

Learn more with the CASM Tutorial on IPSC’s website (www.in.gov/ispc/2529.htm) and CAM Training.
How to Review Your CASM Data

- You can create basic reports to display:
  - Agency Data
  - Radio System Data
  - Dispatch Center Data
  - Gateway (e.g., ACU-1000) Data
  - Radio Cache Data
- To begin, Select Basic Report from the Reports tab on the toolbar
- The CASM Reports box will pop up
Basic Reports: Agency Data

- Select the “Report by Agency” radio button
- Then, select the Agency of Interest and click “View Report”
Agency Data

- Report includes:
  - General Agency information
    - Jurisdiction
    - Point of Contact
  - Radio Use
    - Primary/secondary systems
    - Mutual Aid
  - Channel Use
  - Talk group Use
  - Dispatch Center Use
  - Gateway Ownership
  - Radio Cache Ownership
  - Radio Equipment
Radio System Data

- Report includes:
  - Mutual aid channel/system information
  - Agency use information
  - Channel information
  - Talk group information
  - Tower/site use information
Dispatch Center Data

- Report includes:
  - Dispatch center information
  - Equipment information
  - Agencies served by dispatch
  - Dispatch to dispatch connectivity
Gateway (e.g., ACU-1000) Data

- Report includes:
  - Gateway information
    - Contact information
  - Equipment information
  - Agencies configured on gateway
  - Channel/talk group information
Radio Cache Data

- Report includes:
  - Cache information
  - Radio Equipment information
  - Contact information
  - Deployer information
  - Channel Configuration
  - Talk Group Configuration
Reviewing and Updating CASM Data

• **Please keep data current** – CASM is only useful if information is accurate
  - Don’t forget to clean it up, too – remove information that is no longer accurate

• Review periodically and send updates as needed to IPSC
  - Look at information at least once a year and with major changes (i.e., PSAP consolidation, local election, etc.)
  - Basic process for updates:
    - Make changes to existing agencies, or assets (radio systems, gateways, dispatch centers, etc.) in a CAM report
    - Add a new agency or asset to a blank report
    - Fax to Steve Skinner (IPSC) at (317) 234-6514

• Forms and instructions for CASM updates can be found at [www.in.gov/ipsc/2529.htm](http://www.in.gov/ipsc/2529.htm)
Reviewing and Updating CASM Data (cont.)

- New Agency or Communication Equipment:
  Fill out blank CAM report (online at [www.in.gov/ipsc/2529.htm](http://www.in.gov/ipsc/2529.htm))

Reports available in fillable PDF or MS Word to email to sskinner@ipsc.in.gov, or complete by hand and FAX to IPSC at (317) 234-6514
Updated Agency or Communication Equipment Information:
Print and mark-up a CAM report or change in Microsoft Word
(instructions at [www.in.gov/ipsc/2529.htm](http://www.in.gov/ipsc/2529.htm))

Reports available to change in MS Word to email to sskinner@ipsc.in.gov, or mark-up by hand and FAX to IPSC at (317) 234-6514
For More Information

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Steve Skinner:  sskinner@ipsc.in.gov, (317) 233-8625

Ken Woodall:  kwoodall@dhs.in.gov, (317) 232-4680

Mark Warner (thru 3/31):  mark.warner@crowehorwath.com

SPAWAR project managers offer online CASM Training monthly – Schedule and connection instructions are listed in the Community Forum and emailed to anyone with CASM User ID’s. Look for CAM Training to learn more about the mapping tool.