

# CASM Next Generation Tool (CASM NextGen)

## CASM NextGen Overview

For Iowa

October 2016



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*Office of Emergency Communications / Interoperable Communications Technical Assistance Program*



# PRESENTER

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# PRESENTATION OUTLINE

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## CASM NEXTGEN

- - Purpose, History, Future
- - Benefits
- - Data Organization
- - Map Operations and Data Layers
- - Form-based Inventory
- - Reporting and General Functions
- - CASM Resource Finder (CRF) – MobApp
- - PSLibrary & PSLibMob
- - Access Management for Iowa



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# CASM NEXTGEN: PURPOSE

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## Provide a tool to inventory all emergency communication capabilities:

- A single database to collect information about agencies/ regions/organizations, communication assets and personnel and how they are used by public safety agencies and other organizations involved in Emergency Management.
- A method to find, display and report the data.
- Continue to expand to meet Emergency Management communication assessment needs.



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# CASM NEXTGEN: HISTORY

- CASM was released 2005 for general use by UASI Urban Areas
- CASM expanded in 2007 to state-wide operations
- Redesigned in Dec 2013 as CASM NextGen to:
  - Provide National View operations – cross border usage; Integrate CASM, SWICT, FMT, MDST for multiple data layers on single map
- Enhanced in Jun 2014 to:
  - Provide Coverage Plots; Metrics Dashboard; Enhanced Interop channel Support (e.g., NIFOG, State Interop Channels)
- Enhanced in Dec 2014 to:
  - Provide Map Library Layer; Create Comm Sites for all Towers; Add Generate Mobile Asset; Display CovPlot queue status and CovPlot Parameters
- Enhanced in Jun 2015 to:
  - Provide ICS-217a; Provide My Data Layer; New COMU Class administrators and instructor types; Organizational Hierarchy – supports Federal, Tribal, NGO agencies; Regional Interop Channel Groups



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# CASM NEXTGEN: FUTURE FEATURES

- Future Enhancements Planned
  - √ FISMA Compliance – tighter user security (completed May 2016)
    - Personnel Layer
    - Coverage Plots for Mobile Comm Assets (e.g., repeaters, radio systems)
    - Inventory of Data Systems, Data Centers, PSAPS, EOCs
  
- Access to the CASM NextGen is “controlled”
  - It is the state’s data
  - The state’s designated Account Mgr(s) are “approving authority”
  - All privileges can be individually assigned per state, county, city, agency
  - Multi-state access supported
  - Access requests: New users click on “Request New Access” link on CASM NextGen Login page, accessible via [PublicSafetyTools.info](http://PublicSafetyTools.info)



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# CASM NEXTGEN: BENEFITS

- Sharing of Information
  - Information about agencies & assets available to authorized users at any time.
  - Assists participating public safety agencies in understanding the communication capabilities used by neighboring counties/states.
- Access to Up-to-Date Information
  - Eliminates repetitive data collection once data has been entered into CASM.
  - Makes maintenance of existing data easy and convenient for users.
  - Users are responsible for the accuracy/currency of their data.
- Reporting Options
  - Provides a number of different ways to report information.
  - Supports TICP production.
  - Supports ICS-217a production.
- Support to FirstNet Data Collection Efforts
  - Mobile Data Survey Tool (MDST) saves information in CASM.



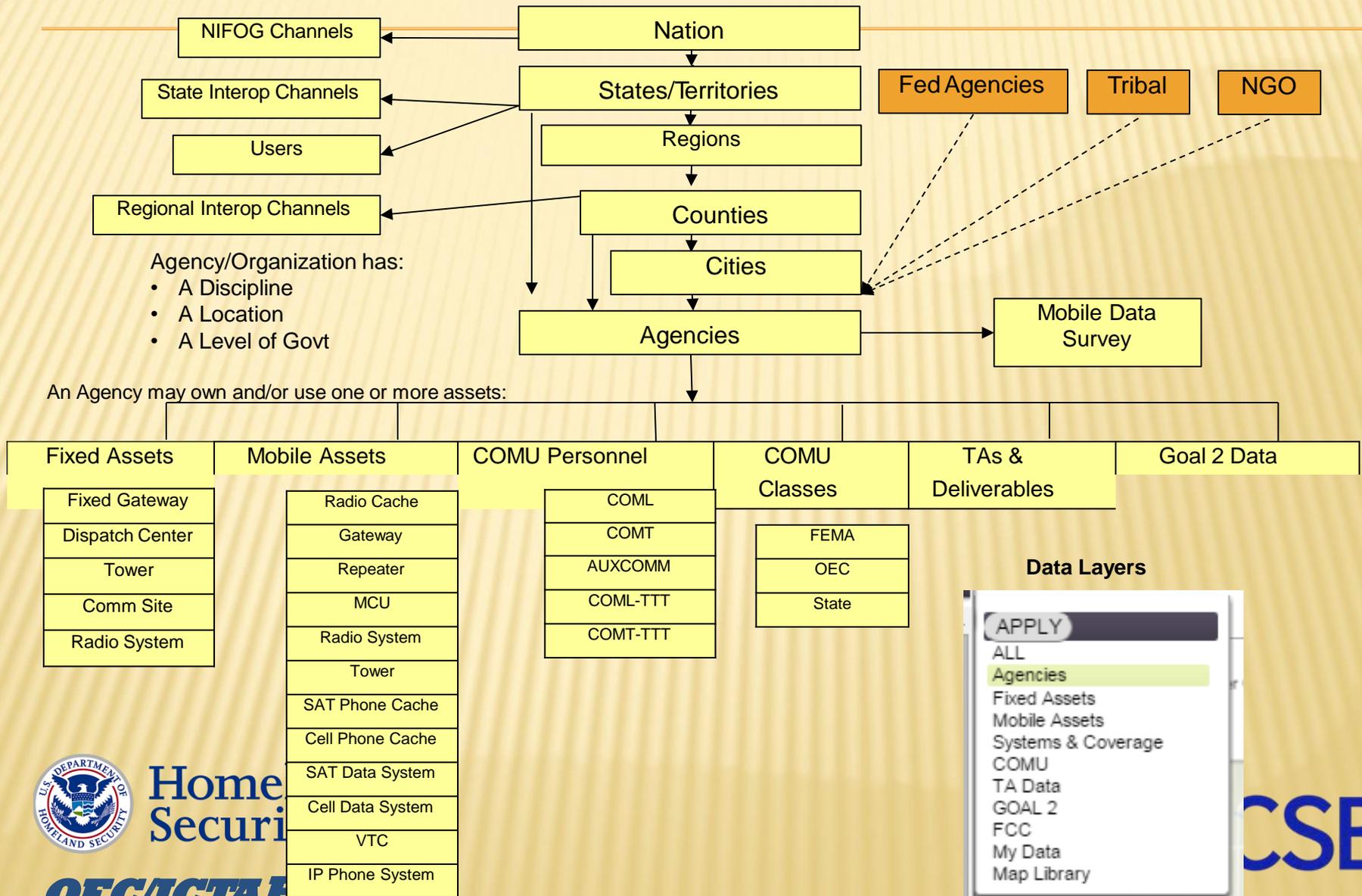
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# CASM NEXTGEN: DATA ORGANIZATION



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# MAP-BASED OPERATIONS

Switch to a Table View with same filters active, for sorting, further filtering

Filter ByLoc (geographic down to counties) or ByOrg (Org decomposition)

Show or Hide Data Layers

Agencies (17 Disciplines, Fed, Tribal, State, Local)

Fixed Assets (Radio Systems, Comm Sites, Gateways, etc)

Mobile Assets (MCUs, Caches, and 10 other types)

Talk-out Coverage Plots

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CASM NextGen

Reporting/Exporting Options My Account Help Save Preferences  
Log Out

Table View Add Item

Hide Filter By Location or Org Hide Layer Selection Agencies Fixed Assets Mobile Assets Systems & Coverage

Agencies Filter APPLY

ALL  
Agencies  
Fixed Assets  
Mobile Assets  
Systems & Coverage

By Data Source  
Select All 2831  
CASM 2265  
Ext Source 566

By Government Level  
Select All 2831  
Federal 7  
Tribal 3  
State 105  
County 666  
Local 1985  
Other 65

By Discipline  
Select All 2831  
Courts/Corr/Sec 234  
Emergency Mgmt 104  
EMS 781  
Facilities 0  
Fire Service 909  
Highway/DOT 1  
Hospital/Medical 10  
Military 4  
Natl Sec/Intel 0  
Law Enforcement 510  
Public Admin 81  
Public Health 6  
Pub Safety Comm 45  
Public Utilities 16  
Specialized Law 97  
Transportation 0  
Other Government 7  
Other Regulatory 2  
Other 24

Filter each Layer Independently

Google Maps based

# ADDITIONAL CASM LAYERS

COMU: COMU personnel mapped at agency location

FCC: Detailed FCC transmitter info

Map Library of Overlays (FEMA Regions, counties)

**COMU Filter** **APPLY**

**By Position**

Select All	151
COML (as of 12/8/2015)	108
COMT (as of 1/11/2016)	29
COML Trainer (as of 7/21/2015)	2
COMT Trainer (as of 2/23/2015)	1
AUXCOMM (as of 1/16/2016)	11
RADO (as of 10/27/2015)	0
INCM (as of 10/6/2015)	0
INTD (as of 10/6/2015)	0

The student data shown is gathered from OEC TA workshops, FEMA EMI courses, and state sponsored courses using OEC or FEMA instructors. Please allow up to 4 months for posting student data from FEMA-conducted courses.

**By Discipline**

Select All	145
Courts/Corr/Sec	0
Emergency Mgmt	27
EMS	5
Facilities	0
Fire Service	17
Highway/DOT	0
Hospital/Medical	1
Military	1
Natl Sec/Intel	0
Law Enforcement	29
Public Admin	14
Public Health	6
Pub Safety Comm	34
Public Utilities	0
Specialized Law	0
Transportation	0
Other Government	0
Other Regulatory	0
Other	11

**By Status**

Select All	151
Trainee	124
State Recognized	27

**Ed Sohm**  
24/7 Phone:  
Email:  
Title: Manager Network & Coord  
Job Title:  
Position: Communications Unit Leader  
Agency: Ida Cty Emer Mgmt Agency  
Agency 24/7 Phone:  
Discipline: Emergency Management  
County: Ida County  
Government Level: County  
Address: 421 Moorehead St  
Ida Grove, IA 51445

**Find by Type, Discipline and Status**

Pointer: 42.33847, -95.46629

All Map Icons have pop-ups with detailed information about resource and option for more detail or editing. e.g.: The COMU Layer shown here includes POC info.

# CASM NEXTGEN: FORM-BASED INVENTORY

**Agency Definition**

Agency POCs: 1 Channels/TGs Used: 0 Dispatch Centers Used: 1 Radio Systems Used: 0 SU Radios Owned: 0  
 Dispatch Centers Owned: 1 Fixed GWs Owned: 0 Mobile Assets Owned: 0 Radio Systems Owned: 0 Comm Sites Owned: 0 Media: 0

**Radio System Definition**

Radio System POCs: 0 Agency Usage: 1 Channels: 236 Channel Agency Usage: 0 Talk Groups: 40  
 Talk Group Agency Usage: 0 Towers: 105 Transceivers: 498 Sites: 0 Media: 0

**Towers for Radio System**

Tower Name	County	Site Name	Type	Height	LMR Ant Cnt	Avail Ant Ht
3 MILE	Elko		LTOWER - Lattice Tower	10		
ALAMO	Lincoln		LTOWER - Lattice Tower	9.1		
ALDER HILL	Nevada		LTOWER - Lattice Tower	18.3		
AMARGOSA	Nye		LTOWER - Lattice Tower	49.8		
ANGELS	Clark		LTOWER - Lattice Tower	12		
ARGENTA	Lander		LTOWER - Lattice Tower	10		
AUSTIN	Lander		LTOWER - Lattice Tower	10		
BALD WEST	Mineral		LTOWER - Lattice Tower	15.2		

- Web-based data collection (any browser or Tablet)
- Data entered into a single database by geographically disparate users.
- Form-driven data entry with numerous pick-lists and prompts to assist users in entering uniform data.
- Data duplication minimized.
- Ability to enter notes, comments and Points of Contact for assets.

# CASM NEXTGEN REPORTING & GENERAL FUNCTIONS

- Reporting and Exporting
  - Comprehensive Reports – TICP Format
  - TICP Report – Equip Tables for inclusion in TICP
  - ICS-217a Report
  - Excel spreadsheets – the “import” format
- Organization Agency Report (agencies and POCs)
- National Interop Channels as reference
- State Interop Channel Group
- Regional Interop Channel Group
- Recognized COMUs – “credentialing”
- COMU Classes – entry of state-administered classes
- Metrics Dashboard – counts and use metrics
- Coverage Plots – generated and user supplied (KML)
- Account Management



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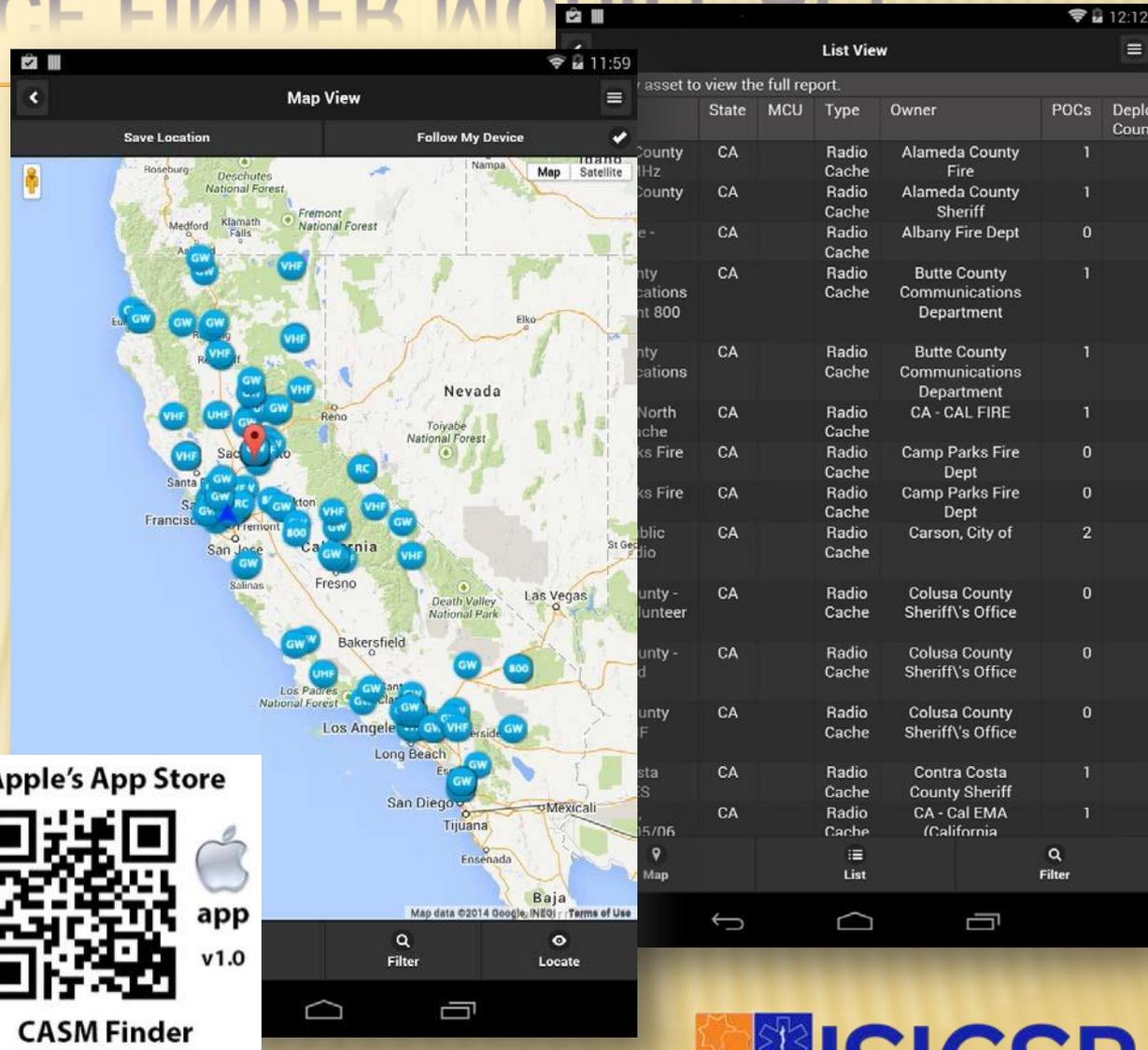
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# CASM RESOURCE FINDER MOBILE APP

- Mobile Asset Layer on your Smart Device
- Find Mobile Assets based on your location or point & radius
- Dial POC from within App
- View access only
- CASM Users only
- Future Upgrades may include Fixed Assets, Channels, and COMU Personnel



SECURITY

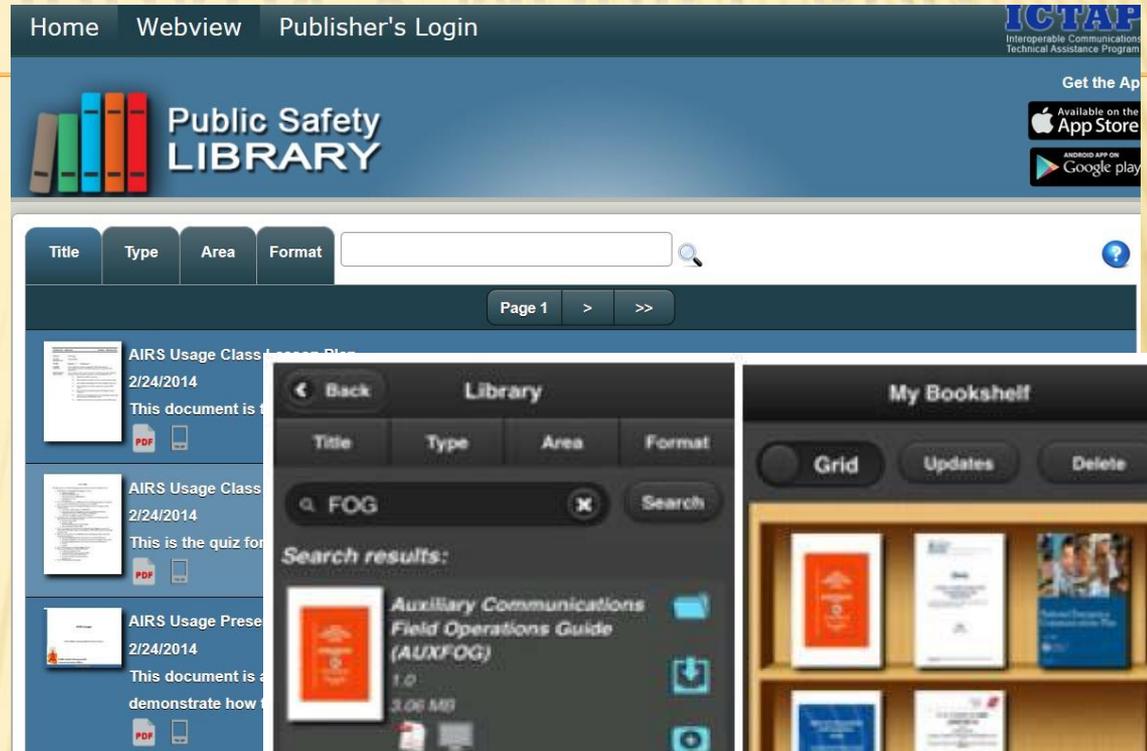
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# PUBLIC SAFETY LIBRARY & MOBILE APP

- Documents you download from PSLib to your device show in “bookshelf”
- You are notified of any updates published
- View access only
- Files can be passcode protected
- PDF, DOC, XLS, PPT, Video, and Image formats



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# CASM NEXTGEN ACCESS MANAGEMENT FOR IOWA

Request New CASM NextGen Access at <http://publicsafetytools.info>

- Statewide Interoperability Coordinator's (SWIC) office receives request
- SWIC emails "Iowa CASMNextGen Access - User Account/Approval Form"
- User completes form, follows instructions on form for authorization
  - State, County, Agency access levels
  - 21 different Functional Privileges
  - Multi-state access supported
- Approver/Sponsor emails form to ISICSB ([iowanet@iowa.gov](mailto:iowanet@iowa.gov))
  - Agency Approver Ex: Police Chief, Fire Chief, Agency Director
  - County Approver Ex: County Sheriff, EMA Coordinator, 911 Coordinator, PSAP POC
- Multiple county or All-Region edit requests are reviewed case-by-case
- SWIC office creates user account in CASM NextGen
- SWIC office notifies user request is approved
- CASM NextGen auto-emails login instructions and credentials to user
- Approval form is attached to CASM NextGen user record



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# PUBLIC SAFETY TOOLS SITE

Click on Red **CASM NextGen** button

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**Public Safety Tools**  
Enabling Emergency Communications Professionals and Responders

Home | Tools | Resources | Training | PSToolsHelp | What's New (as of 05/19/2016) | Public Safety Tools Overview Video

**Tools**

- FMT**  
Frequency Mapping Tool

Controlled Access: [\\* How do I get Access?](#)

- CASM NextGen**  
Communication Assets Survey & Mapping Next Generation
- eSCIP**  
Statewide Communication Interoperability Plan

**Resources**

- NECP**  
National Emergency Communications Plan
- NIFOG**  
National Interoperability Field Operations Guide
- TA/SCIP Catalog**  
Catalog, Requests, and Evaluations
- AUXFOG**  
Auxiliary Communications Field Operations Guide
- GETS**  
Request Priority over Wireline Telecommunications
- WPS**  
Request Priority over Cellular Networks
- TSP**  
Request Priority for Circuit Repair
- PS Library**  
Public Safety Library
- Links**  
Links to other resources

**Training**

- Gateways**  
Audio Gateway Training Materials & CBT
- COMU**  
Communications Unit Overview Training
- Proj. Mgmt.**  
Project Management Overview Training
- Radio 101**  
Basic LMR Overview Presentation
- Tribal Outreach**  
Engaging Tribal Governments Overview Presentation
- CASM NextGen**  
Targeted Training Information
- PSTools Training**  
Public Safety Tools Training Schedule



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# HOMELAND SECURITY INFORMATION NETWORK (HSIN) DISCLAIMER

Read notice, Click **OK** to continue



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You are NOT authorized to process classified information on this system. (Jurisdiction - E.g. the same State, city, or agency, or at minimum, the same type of entity, such as State-for-State, law enforcement for law enforcement, etc.)

OK



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# CASM NEXTGEN LOGIN PAGE

Click on **Request New Access** link (highlighted in this example)

The screenshot shows the CASM NextGen Login Page with the following elements:

- Header:** U.S. Department of Homeland Security logo and "Homeland Security" text on the left; "ICTAP Interoperable Communications Technical Assistance Program" logo on the right.
- Section:** "SELECT LOG IN METHOD" centered at the top.
- Left Panel (PIV):**
  - Title: "Log in using PIV (Personal Identification Verification) Card"
  - Button: "Log in"
  - Text: "In order to use your PIV card to authenticate, you must associate your PIV Identify with your CASM User Account. To do this, first login using your CASM credentials (user-id/password) and initiate the 'Associate PIV' function under My Account. Select to use the Identify Certificate from your PIV (not the email or other Certificate). Once synchronization is completed, you may use your PIV, click on the PIV login, enter your PIN and you will be authenticated."
- Right Panel (Credentials):**
  - Title: "Log in using Credentials"
  - Form: "User Id: \*" followed by an input field; "Password: \*" followed by an input field.
  - Buttons: "Log in" and "Clear"
  - Links: "[Forgot your User Id?](#) | [Forgot your password?](#)"
  - Note: "\* Required Field"
- Footer:**
  - Center: "[Request New Access](#)" (highlighted in yellow)
  - Bottom Left: "[System Requirements](#)" and "[Security FAQs](#)"
  - Bottom Right: "[Privacy Statement](#)" and "[Rules of Behavior \(Terms of Use\)](#)"
  - Bottom Center: "For Official Use Only"



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# CASM NEXTGEN ACCESS REQUEST PAGE

Complete required information, click **Save**; request will go to Iowa SWIC

### CASM Nextgen Access Request

**First Name: \***

**Last Name: \***

**Email Address: \***

**Home Organization: \***

**Organization to Access: \***

**Type of Data to Access: \***  Agency Data  COMM Asset Data  COMU  eSCIP

**Reason for Request: \***

*Explain your need for access to the system.*

**(19 + 1) - 5 = ? \***

*Must be answered correctly to save request.*

**\* Required Fields**



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# CASM NEXTGEN: SUPPORT/HELP DESK

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## DHS/OEC

### Help Desk

[PSToolsHelp@publicsafetytools.info](mailto:PSToolsHelp@publicsafetytools.info)

Jeff Lee – CASM NextGen Tech Lead/Support

[leejef@saic.com](mailto:leejef@saic.com)

619-991-0712

Jeff Lilly – CASM NextGen Support

[jlilly@lafayettegroup.com](mailto:jlilly@lafayettegroup.com)

847-344-8700

State of Iowa SWIC Office, Access Management

Helen Troyanovich – Deputy SWIC

[helen.troyanovich@iowa.gov](mailto:helen.troyanovich@iowa.gov)

515-725-4619



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# THANK YOU FOR ATTENDING!

## The 13th Annual Iowa Homeland Security Conference

October 12-13, 2016



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