Navy Emergency Management Addressing Project (NEMAP)

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Agenda

• Project Drivers
• NEMAP Overview
• Project Outcomes
• NEMAP Now
NEMAP

• Brief History
  • Funded and started in June 2013
    • “Pilot addressing projects” at NASJAX and NAS Key West prior to funding
    • 24 months estimated time to complete all CONUS bases
    • Completed initial addressing for all CONUS bases in April 2015

• NEMAP is a component of **NERMS** – Navy Emergency Response Management System – “Navy 911”

• Parallel Project to **911-RMS** – 911 Routing and Management Service – “Routing 911 calls on Navy installations”
  • 911-RMS is also component of NERMS
Project Driver: Fort Hood Findings

Fort Hood Lessons Learned  Finding 4.2: “Failure to implement {Enhanced 911} policy will deny the military community the same level of emergency response as those communities off base.”
Moving forward, a NEMAP Configuration Management Plan will provide oversight and accountability for all Navy and 911/E-911 related Addressing efforts. This is being coordinated with the NAVFAC Asset Management Office.

After the Fort Hood event implementing 911/E-911 addressing capability has become a Department of Defense requirement for all DoD Installations. Navy emergency dispatch is utilizing CAD and GIS to provide more efficient emergency dispatch services. The lack of 911/E-911 compliant Navy addressing adversely affects the ability for CAD and GIS to link emergency call locations to telephone numbers in a timely and accurate manner.

2. DISCUSSION:

In response, the Navy Emergency Management Addressing Project (NEMAP) was initiated to complete Navy-wide 911/E-911 compliant Base Addressing. When a new address is required on a Navy Installation the designated NEMAP Team (SPAWAR 41170, NAVFAC ATFP) will coordinate between base personnel and the Local Government addressing authorities to obtain and integrate addresses within the scheme for each command.

3. GUIDANCE:
NERMS and E-NERMS

- **NERMS - NAVY EMERGENCY RESPONSE MANAGEMENT SYSTEM**
  - Regional Dispatch Centers
  - **E-NERMS** - “Enterprise Navy Emergency Response Management System” is currently deploying

- **911-RMS – ROUTING AND MANAGEMENT SERVICE**
  - Route PSTN Navy 911 Calls on E911/NG911-like technology
  - Receive Transferred Wireless calls for local PSAPs
  - Navy-911 ANI/ALI

- **NEMAP – NAVY EMERGENCY MANAGEMENT ADDRESSING PROJECT**
  - Specialized SME’s for Development and Coordination of GIS, 911 Addressing/ALI, MSAG
  - Enables true E911
From a Project to a Process

**NAVY**
Base Communications Officer (BCO), GRC, AM/iNFADS, Public Works Dept, PPV

**RDC**
PSAP 911-RMS, CAD, ALARMS (LAMAS RAMAS), NEMAP (GIS, MSAG), 911-ALI

**E-NERMS CERS**

**Local /State Government**
Local GIS Public Safety PSAP Addressing MSAG

**Non Government Groups**
911 Telephony, MSAG, (AT&T, Verizon, Intrado, etc.)
From a Project to a Process

Navy perspective

Navy-BCO
Base Communications Officer
Telephony
MAC – Move, Add, Change
ANI

Navy Emergency Management
Fire and Security
RDC - Regional Dispatch Center
Public Safety Answering Points, Mutual Aide,
Addressing (GIS) verification, and MSAG validation
ROC - Regional Operations Center
EOC - Emergency Operations Center
Mutual Aide

NAVFAC
Asset Management
iNFADS
Real Property Officer
GeoReadiness Center
Public Works
MILCON
1354
New Data
NAVSEA
NAVAIR
PPV

911-RMS
NEMAP

E-NERMS
ALARMS
CAD - Computer Aided Dispatch
GIS - Geographic Information Systems

ALI
ANI
ANI/ALI

NENA
FGDC
USPS
From a Project to a Process
Local Government perspective

E-NERMS

ALARMS  CAD - Computer Aided Dispatch  ELMR
GIS - Geographic Information Systems

911-RMS  NEMAP

ANI  ALI

ANI/ALI

Local/Regional/State
911 Telephony
AT&T, Verizon, Century Link, Sprint, Comcast etc.
ANI

Local, State EM
Fire and Security, Medical
PSAP – Public Safety Answering Points
Mutual Aide

Local/State
Addressing, GIS, MSAG validation
ALI Providers
Privatized Housing Providers

NENA
FGDC
USPS
What is NEMAP?

NEMAP = Navy Emergency Management Addressing Project

Current State
- Based on building number
- No address coordination with external emergency responders

What is Base Street Addressing?
- Provides e911 compliant Navy addresses similar to outside agencies (ATT, Sprint, etc.)
- Multi-agency approach – GRC, PWD, Local government, among others
- Address database hosted by outside agencies
The NEMAP Team

• Navy Sponsors
• Project Leads (Prime and Sub)
• Technical Lead
• Data Manager
• System Architect
• Solutions Engineer
• Support Analyst
• Addressing/Geospatial Analysts
Technology and Project Controls

URISA

NENA

APCO International

esri

Federal Geographic Data Committee (fgdc)

Data Reviewer

ArcGIS Online

GeoComm

ArcGIS for Desktop

JIRA

10.2.2
The NEMAP Secret Sauce
SOP’s and ABP’s
Military bases are a whole new game.....

Privatized housing should be the first focus – changing residential addresses is highly sensitive.
The NEMAP Workspace
Collaboration, Review, and Document Sharing
NEMAP FAST

Number of features found: 1

3005
LASTUPDATE: 4/28/2015
FULLADDR: 7451 ENTERPRISE STREET
NAVY_REGION: NRSE
INSTALLATION_NAME: NAS WHITING FLD MILTON FL
INSTALLATION_COMMAND: NAVAL AIR STATION WHITING FIELD MILTON
FACIL_NO: 3005
NEMAP Now
CONUS Complete – Navy Region Hawaii and Joint Region Marianas
NEMAP Numbers

Region
- CNRNW
- CNRMW
- CNRMA
- CNRSE
- CNDW
- CNRSW
- CNRH
- JRM

Date Began
- Jul-2013
- Nov-2013
- Jul-2013
- Mar-2014
- Jan-2014
- Mar-2014
- June-2015
- Jul-2015

Date Completed
- Feb-2014
- Feb-2014
- Apr-2014
- Sep-2014
- May-2014
- Apr-2015
- TBC APR ’16
- TBC JAN ’16

Number of Addresses
- 5,938
- 4,366
- 18,255
- 10,560
- 6,154
- 20,111
- ~8500
- ~5000
Implementation, Maintenance, and Support
NEMAP in the News

Navy 911: Where Is Your Emergency?

Locating an Incident Is Simple Now After US Navy Launches Addressing System

By Amy Hrdlicka, GISI, and Marvin Garland, Serco Inc.

A man entered the Soldier Readiness Processing Center at Fort Hood, Texas on November 6, 2009. It was about 1:34 p.m. He sat at an empty table, paused for a few seconds, stood up, shouted, and began firing a weapon.

Within 10 minutes, 13 people were dead and more than 30 others were injured. Two minutes and 40 seconds after the first call to 911, first responders from base were on the scene. A minute and a half later, officers shot the suspect. Ambulances arrived two and a half minutes after that, once the suspect was taken into custody.

Although emergency responders from off base arrived at Fort Hood quickly, unfortunately there was no way for them to know where on the base the victims were located. The base had no standardized address system, meaning they would not find each other.

Navy 911: GIS Modernizes the US Navy’s Emergency Response Systems

By Amy Hrdlicka, GISI, and Marvin Garland, Serco Inc.

A man entered the Soldier Readiness Processing Center, which prepares soldiers for deployment, at Fort Hood, Texas, on November 6, 2009. He sat at an empty table, paused for a few seconds, stood up, shouted, and began firing a weapon.

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Although emergency responders from off base arrived at Fort Hood quickly, there was no way for them to locate the victims. This was because Fort Hood, like many US military bases, did not have standard street addresses like the ones found in cities and towns across the United States.

NEMAP Modernizes the US Navy’s Emergency Response Systems

NEMAP incorporates standardized addresses and routine street centerlines into dispatch systems at the Navy Regional Dispatch Centers (NRDCs).
“Duly noted, we are moving on…”

Marvin Garland