

Mobile Incident Tracking and Management

Using GIS for Incident Response and Analysis

Presentation Abstract

- Providing active incident and response unit location information to emergency response personnel on mobile devices increases field situational awareness. Sitstat (Situation Status) is a tool deployed at Alameda County to deliver incident and site specific information to emergency responders. Initially deployed for the multi-agency Communications Center (ACRECC) for fire and paramedic responders, expansion includes tracking of sheriff and additional agencies, thus expanding the relevance of the Common Operating Picture.

Presenters

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SitStat as a Common Operating Picture

- In production within ACRECC for over a year
- Provides access in the field and office to
 - Incidents
 - Driving directions
 - Traffic
 - Dispatcher notes
 - Units
 - Pre-plans
 - GIS data
- Direct CAD and GIS integration
- Mobile device compliant
- Secured access, shared by many

Key Features and Benefits

Filter

- User personalization to focus SitStat to user's responsibility
- Filters table and map content
- Flexible for many roles
- Essential for regional and multi-discipline installations.

The screenshot displays the SitStat software interface. At the top, the title bar reads "SitStat". The main area is a map showing a geographical region with various locations and roads. On the right side, there is a panel titled "Agency / Battalion Filter" with two sections: "Agencies" and "Battalions". Each section contains a grid of checkboxes for different units. Below the filter panel, there are two data tables. The first table, titled "Units", has columns for "Unit ID", "Unit Status", "Date", "Agency ID", and "CID Event #". The second table, titled "Incident", has columns for "Type", "Date", "SAC", "Officer Name", "Location", and "CID Event #".

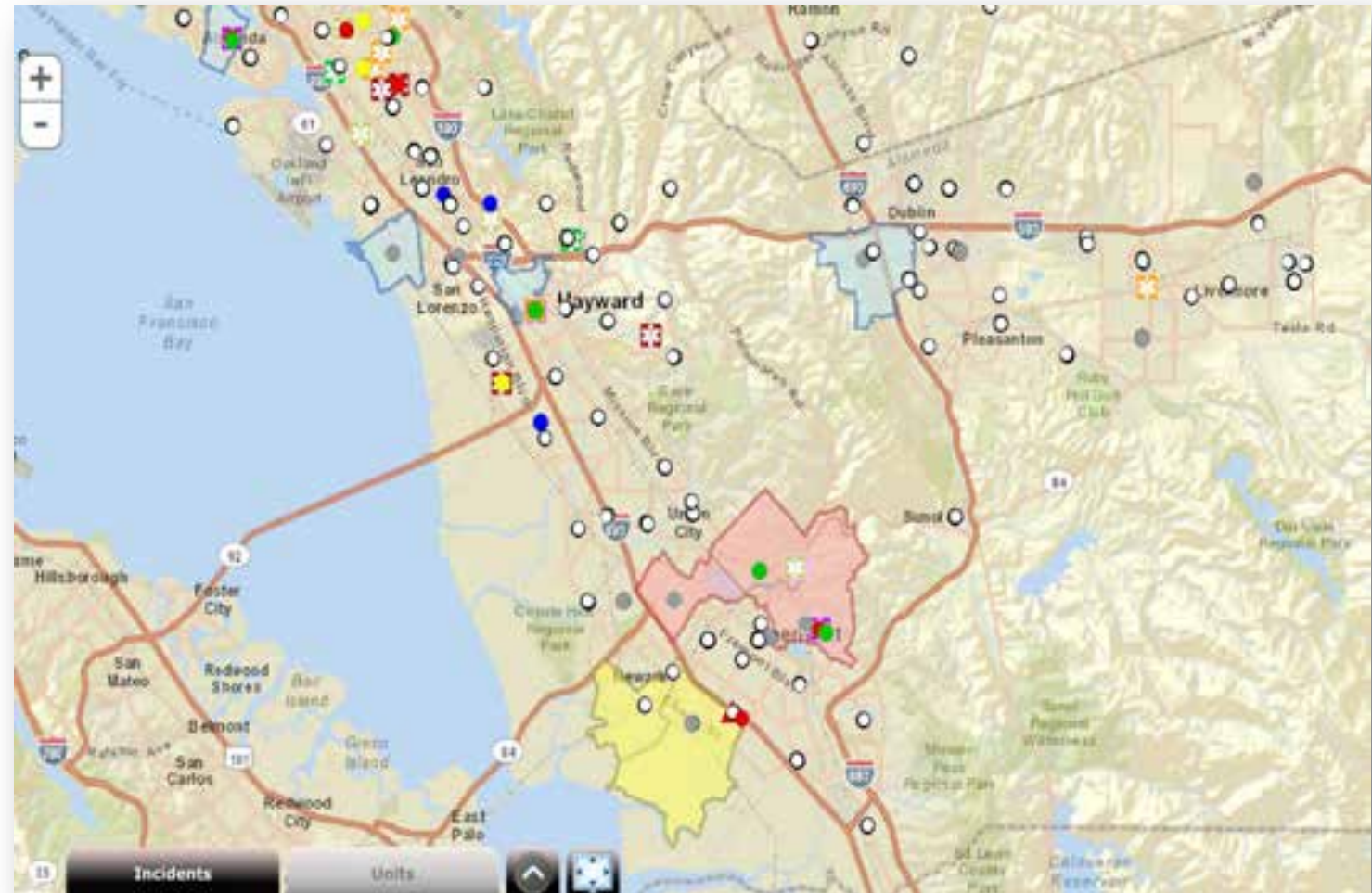
Unit ID	Unit Status	Date	Agency ID	CID Event #
TT82	Out of Service	2014/06/26 08:33:33	FR8	N/A
TT87	Available	2014/06/26 10:04:23	FR8	N/A
TT81	Available Radio	2014/06/26 14:23:32	FR8	20140048290
TT86	Available	2014/06/26 12:00:37	FR8	N/A
TT88	Available	2014/06/26 12:07:48	FR8	N/A
TT87	Available	2014/06/26 12:08:43	FR8	N/A
TT88	Available	2014/06/26 12:08:43	FR8	N/A

Type	Date	SAC	Officer Name	Location	CID Event #
TRAFFIC/TRANSPORTATION	2014/06/26 10:04:23	DI	N/A	FR	20140048290

Key Features and Benefits

Move up

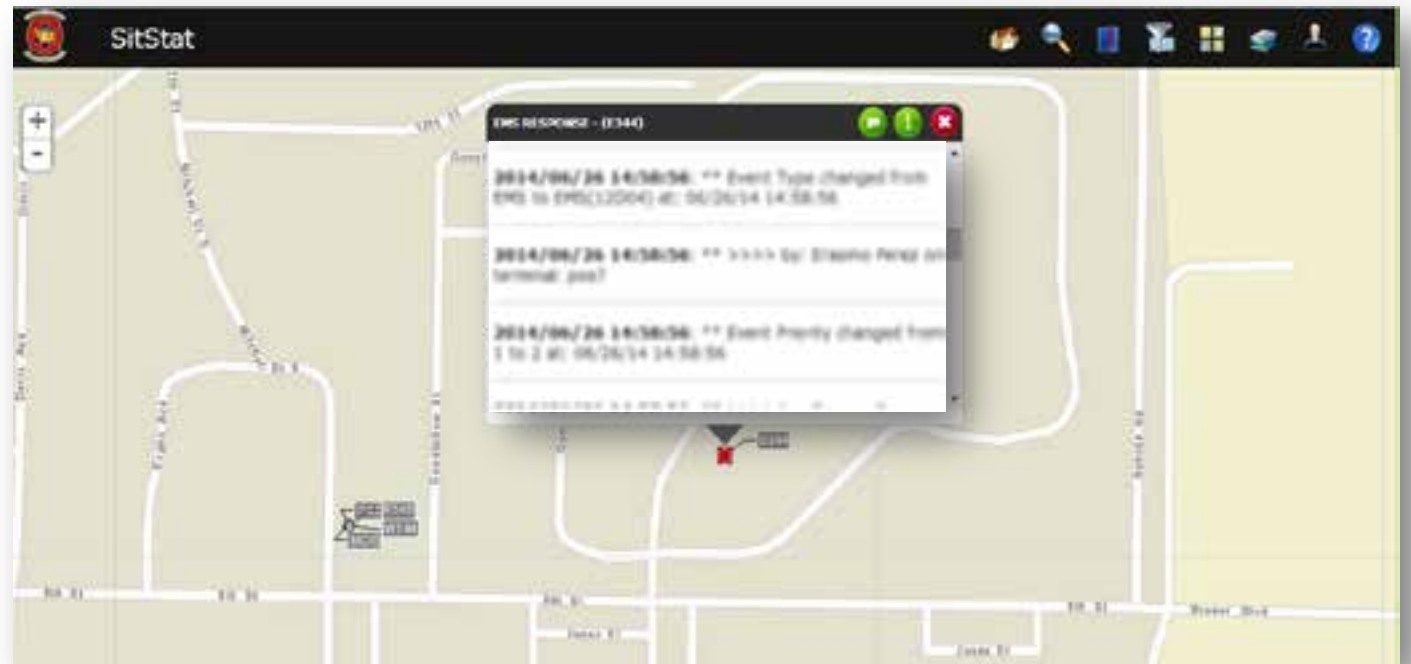
- Alerts user when station areas are empty
- Escalating alert based on contiguous areas
- Enables BC to “see” a specific coverage area



Key Features and Benefits

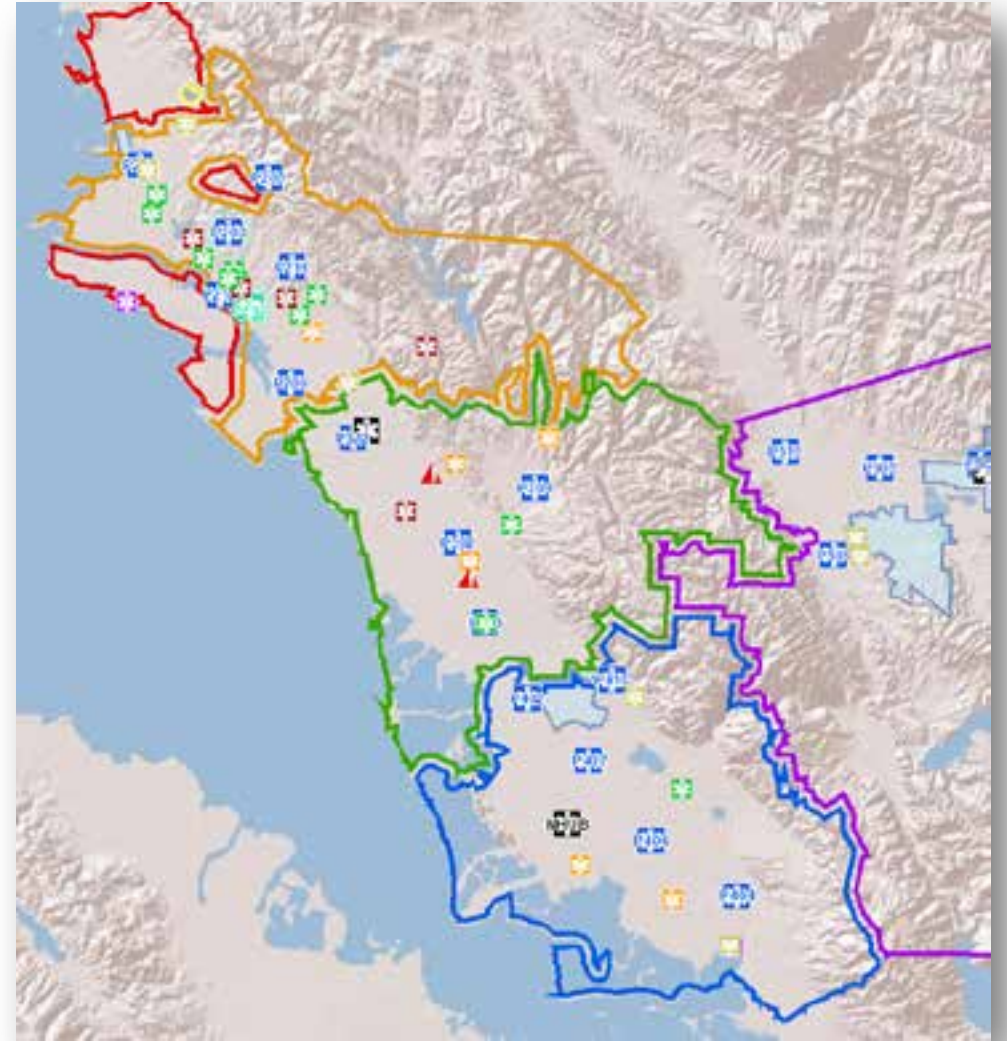
Dispatcher notes convey critical details

- Click to access
- No longer limited to radio translation
- Adds huge value for first responder



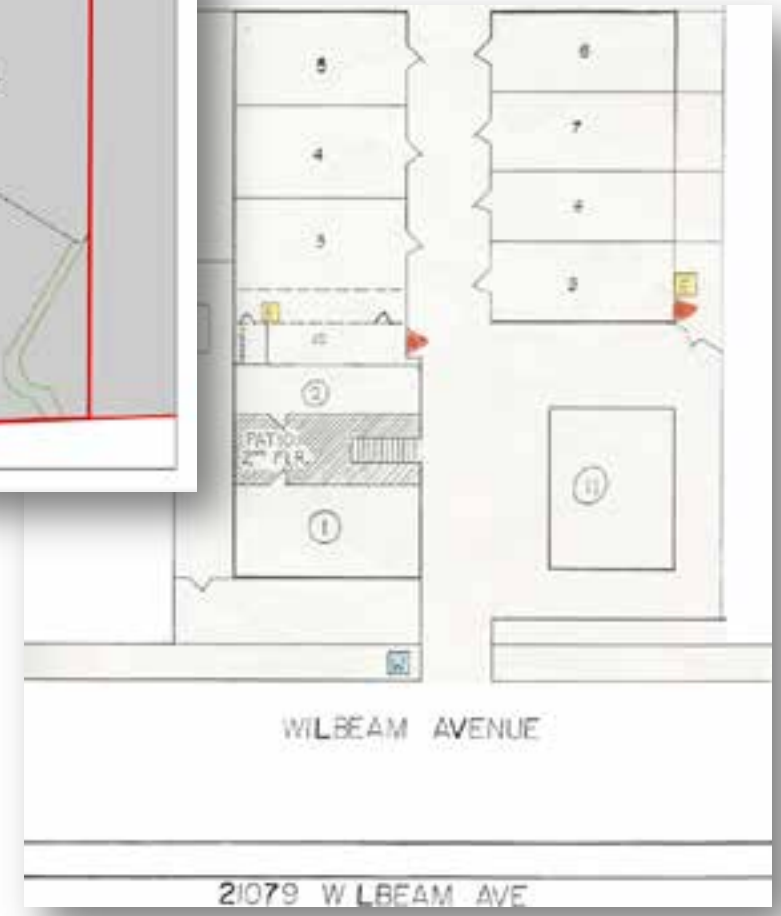
EMS Use Case

- Show EMS zones and posts
- Supervisors see at a glance how many units are in zones
- Used to manage resource backfilling, breaks, using visual map queues



Site Plans

- Site plans are representations of sites showing critical emergency responder information.
 - Knox box
 - Standpipes
 - Locked gates
 - Access locations
 - Room number
 - Water Supply
- Historically managed in binders in First Responder vehicles.
- Now accessible to any SitStat user – current, shared, fast access



Interagency Use Case

- Multiple CAD subscribers improve interagency response coordination
- Subscriber types may be varied
 - Fire
 - Police
 - EMS
 - Public Works
- SitStat is a simpler approach than CAD to CAD integration, solving key interagency coordination challenges

Sheriff Integration

- Adding Alameda County Sheriff to Regional Fire SitStat
- View Sheriff units and incidents with Fire and EMS
- Enhanced security interface to control access



Emergency Operations Center

- Sheriff, Fire, and EMS incidents and units will be available
- Common Operating Picture – vital for resource allocation
- Resource locations not previously accessible in EOC
- Integrating with vast repository of resource and hazard GIS layers



Live Markup

- Use markup tools for site / incident markup
- Attach photos and documents
- Amplifies the value of site plan online sharing – better communication and coordination

Deployment and Use

Impact on operations and staff

- Impact on field staff
- New data management perspectives
- Expectations for further development and use of mobile technology.