Sonoma County Fire Chief’s Association

April 10, 2013
About Digital Sandbox

What We Provide: Advanced analytic software that allows organizations to monitor and prioritize the threats that put their enterprise at risk.

To Whom: Federal, State and Local Governments, Public Safety Agencies and high profile private organizations

To Do What: Our solutions allow our customers to ingest, fuse, analyze and visualize real-time data to illuminate priority threats and take decisive action.
Digital Sandbox - Highlights

• Developed the risk methodologies used by U.S. Department of Homeland Security (DHS) to evaluate critical infrastructure.

• Developed proprietary algorithms which are protected by three U.S. patents for methods and tools used in risk management.

• Developed the quantitative threat process used by DHS’s Office of Intelligence and Analysis to prioritize threats to U.S. cities, ports, transit systems, and states.

• Chosen by host cities of national major events - Super Bowls, NBA All-Star Games; Major League All-Star Games, Indy 500, America’s Cup and others to manage event risk and security.

• Selected by the largest private foundation in the world to protect their principal executives.
DS7 - Analyzes Information for Priority and Relevance

Data Collection & Pre-Processing

Incident Reports
News Feeds
Calls for Service
Critical Infrastructure

SARS
Direct Observations

Web Browsers
Mobile Devices
External Systems

Analytic Processing

DS7

Domain Ontology
Natural Language
Geometric
Scoring

Alerts
Timeline
Map
Triage

Operational Awareness

Archive DB
Low Priority

Analysis & Reports

Copyright 2013 | Digital Sandbox, Inc.
DS7 – Data Visualization

DS7 provides three different perspectives on the monitoring of operational information:

1. Geospatial monitor
   - Sites
   - Calls for Service
   - Field Reports
   - Events
2. Feed monitor
   - Calls for Service
   - Field Reports
   - News Feeds
   - Twitter Feeds
3. Timeline monitor
   - Events
   - Field Reports
   - Feeds
DS7 – Geo Monitor View

Analysis  Monitoring  Administration

Current Action: Move Map

Latitude: 30.01054  Longitude: -90.02547

Search Entire System
# DS7 – Feed Monitor View

<table>
<thead>
<tr>
<th>Location</th>
<th>Description</th>
<th>Time</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESIDEN 2122 N ROBERTSON ST</td>
<td>FIRE ALARMS</td>
<td>Sun 2/17/13 5:16 PM</td>
<td>9 minutes ago</td>
</tr>
<tr>
<td>ELYSIAN FIELDS AVEAND-610 E</td>
<td>POLICE MUNICIPAL ATTACHMENT</td>
<td>Sun 2/17/13 5:16 PM</td>
<td>9 minutes ago</td>
</tr>
<tr>
<td>FRENCHMEN ST</td>
<td>POLICE NOISE COMPLAINT</td>
<td>Sun 2/17/13 5:15 PM</td>
<td>9 minutes ago</td>
</tr>
<tr>
<td>1ST DISTRICT</td>
<td>POLICE COMPLAINT OTHER</td>
<td>Sun 2/17/13 5:15 PM</td>
<td>10 minutes ago</td>
</tr>
<tr>
<td>1939 ALMONASTER AVE</td>
<td>EMS SICK PERSON (SPECIFI</td>
<td>Sun 2/17/13 5:14 PM</td>
<td>10 minutes ago</td>
</tr>
<tr>
<td>SILEN 3551 RUE MICHELLE RESD/MARTIN</td>
<td>POLICE BURGLAR ALARM</td>
<td>Sun 2/17/13 5:14 PM</td>
<td>11 minutes ago</td>
</tr>
<tr>
<td>SILEN 6117 SAINT CLAUDE AVE LIGHT CITY CHURCH</td>
<td>POLICE BURGLAR ALARM</td>
<td>Sun 2/17/13 5:11 PM</td>
<td>14 minutes ago</td>
</tr>
<tr>
<td>6810 CURRAN BLVD</td>
<td>POLICE DOMESTIC DISTURBANCE</td>
<td>Sun 2/17/13 5:10 PM</td>
<td>15 minutes ago</td>
</tr>
<tr>
<td>890 CONVENTION CENTER BLVD CONVENTION CENTER HALL B</td>
<td>POLICE THEFT</td>
<td>Sun 2/17/13 5:08 PM</td>
<td>17 minutes ago</td>
</tr>
<tr>
<td>3312 MAGAZINE ST</td>
<td>POLICE COMPLAINT OTHER</td>
<td>Sun 2/17/13 5:07 PM</td>
<td>18 minutes ago</td>
</tr>
<tr>
<td>FRENCHMEN ST</td>
<td>POLICE NOISE COMPLAINT</td>
<td>Sun 2/17/13 5:06 PM</td>
<td>19 minutes ago</td>
</tr>
<tr>
<td>FRANCISCO VERRETT DR</td>
<td>POLICE DISTURBANCE (OTHER)</td>
<td>Sun 2/17/13 5:06 PM</td>
<td>19 minutes ago</td>
</tr>
<tr>
<td>TULANE AVE CAPRI MOTEL</td>
<td>POLICE SIMPLE BATTERY</td>
<td>Sun 2/17/13 5:05 PM</td>
<td>20 minutes ago</td>
</tr>
<tr>
<td>2419 VALENCE ST</td>
<td>POLICE DISTURBANCE (OTHER)</td>
<td>Sun 2/17/13 5:04 PM</td>
<td>21 minutes ago</td>
</tr>
<tr>
<td>1701 FRANKLIN AVE FAMILY FARM</td>
<td>POLICE COMPLAINT OTHER</td>
<td>Sun 2/17/13 5:04 PM</td>
<td>21 minutes ago</td>
</tr>
<tr>
<td>LOCAL 2132 PAGE BLVD</td>
<td>POLICE BURGLAR ALARM,</td>
<td>Sun 2/17/13 5:04 PM</td>
<td>21 minutes ago</td>
</tr>
<tr>
<td>WASHINGTON AVE</td>
<td>POLICE FIGHT DRYADES ST</td>
<td>Sun 2/17/13 5:02 PM</td>
<td>23 minutes ago</td>
</tr>
<tr>
<td>3814 ANNUNCIATION ST</td>
<td>POLICE DISTURBANCE (OTHER)</td>
<td>Sun 2/17/13 5:02 PM</td>
<td>23 minutes ago</td>
</tr>
</tbody>
</table>
DS7 – Time Line View

- NFL Staff Meeting
- Special Events: 3 total
- Special Events: 2 total
- Special Events: 4 total
- Possible Team Equipment Load In
- Stadium Setup
- Camera Look-See
- Camera Meeting (Show Cams & CBS Cams)
- Halftime Rehearsal
- Halftime rehearsals/Lighting programming
- AFC or NFC team meeting
- Hotel Check In
- hotel1 - Status Check In: Baltimore Ravens Team Buses enroute from Practice Facility to Hilton hotel
- Full Final Dress (No Timed Out)
- Overnight Lighting / LED Programming
- Hard Wrap Off Field / Move Stages To Sidelines
- 8th Annual Super Bowl NFL Charities Celebrity Bowling Classic
- NFL Foundation Super Bowl Celebrity Bowling Classic
- Special Events: 2 total
- Special Events: 2 total
- Special Events: 2 total
- Special Events: 3 total
- Special Events: 4 total
- Special Events: 4 total
Mobile Command: Allows field personnel to see tailored “channels” of threat and risk information on a tablet and the App can be customized by the user.

Mobile Monitor: Allows field personnel to see prioritized information channels on a Smart Phone or Tablet.

Mobile Indicator: Allows field personnel to see and submit field intelligence on a Smart Phone and allows field personnel to track team members.
Folsom Live

- Saturday - September 22, 2012
- 15 bands
- 5 outdoor stages
- Held within Historic Folsom District on Sutter Street
- Estimated crowd of over 9,000 people
Decision to use DS7 Special Events

- Decision was made in early September, 2012
  - Event occurred on Sept. 22
- Goals were to integrate Police CAD
- Deploy up to 6 or 7 Mobile Indicators for each Police and Fire
- Twitter Feed
- Enter Events
- Monitor the event from the Mobile Command
- Enter scheduled events
Folsom Live - Deployment

• Mobile Field Command Unit Deployed

• Unified Command Utilized

• Folsom Police Incident Commander
  Commander Rick Hillman

• Folsom Fire Incident Commander
  Division Chief Dennis Wycoff

• Folsom Chamber of Commerce Incident Commander
  Various
DS7 Mobile Indicators

Mobile Indicator Deployment: 4 Police and 2 Fire
Benefits of DS7 Utilization

• Better coordination between police and fire

• Able to document promoter violations in the contract

• Better situational awareness
Thank you
Following the National Fire Protection Association (NFPA) Form 1620 the DS7 system allows users to collect and evaluate electronically the following data of a particular location:

- Physical elements
- Site considerations
- Number and type of building occupants
- The available water for fire fighting purposes
- Consider any special circumstances based on the type of occupancy (e.g., health care, residential, assembly, etc.)
DS7 Fire Pre-Incident Assessment Report (cont.)

- Develop instructions for responding to unusual hazards
- Ability to enter
  - Pictures that are geo-coded
  - Diagrams and Floor Plans
- Create procedures for
  - Preparation
  - Presentation
  - Communication
- Aids personnel responding to emergency incidents
- Document and disseminate findings
  - Electronically
  - Written Report
DS7 Fire Module - Details

Pre-Incident Fire Assessments
- Fully configured fire-planning work flows and wizard driven interface makes the system easy to use and deploy

Response Monitoring and Reporting
- Real time monitoring of response operations and printed assessment reports

Requirements
- Online management of pre-fire plans – streamlines process, makes it easy to add information as needed and enables easy deployment to a large community of users
- Ready to be integrated with existing systems – including CAD, AVL and local calls for service
- Real time monitoring of response activities – from command center and mobile applications provide true 360-degree situational awareness on the ground
- One click printing of formatted pre-fire plans – for onboard storage on fire trucks and response vehicles
DS7 Fire Module - Details
DS7 Fire Module - Mobile Assessment

- The Mobile Assessor gives users the ability to directly participate in site visits on hand-held IOS devices
- Data form is built into the application - geo-locate photographs
- All data is instantly transmitted to the server
- Available for download for iPhone and iPad at iTune store
DS7 Fire Module - Operational Concept

- Ability to send reports from the Field i.e., Violations/Hazards
- Monitor and Vet Incoming Submissions
- Generate Reports to support official submissions
- Enter Assets for Assessment
- Manual Entry
- Continuously Monitor Track Activities
- DS 7 System
- Ability to send reports from the Field i.e., Violations/Hazards
- Ability to see reports in the field
- Ability to conduct Assessments from the Field
Command Situational Awareness in Centers/in the Field

Ability to monitor in Command Centers and EOCs (no limit to nb. of deployments)

Field and Executive Commanders monitor from the field using mobile devices, with ability to see assessments to include pictures and diagrams
DS7 Fire Module – Command Situational Awareness

**Analytically Fused and Prioritized NFPA 1620 Information**

Feeds
- DS7
- Computer Aided Dispatch
- Field Ops Mobile Apps

What
- Assessments
- Hazards
- Critical Infrastructure
- Resources

Who
- Analytic Prioritization & Routing

How
- Important

Where
- When
DS7 Fire Module – The Benefits

- Takes the Pre-incident Fire Plan out of file cabinets and into hands of all first responders

- The geo-monitor allows display of
  - Pictures
  - Diagrams
  - CAD Calls
  - Observations

- Regardless of personal knowledge of site all responders have the same information.