



# Safe Environment Engineering

**Presented By:**

**David Lamensdorf - President**

Established – 1993

28474 Westinghouse Place

Valencia, CA 91355

(661) 295-5500 • (661) 294-9246 FAX

[www.safeenv.com](http://www.safeenv.com)

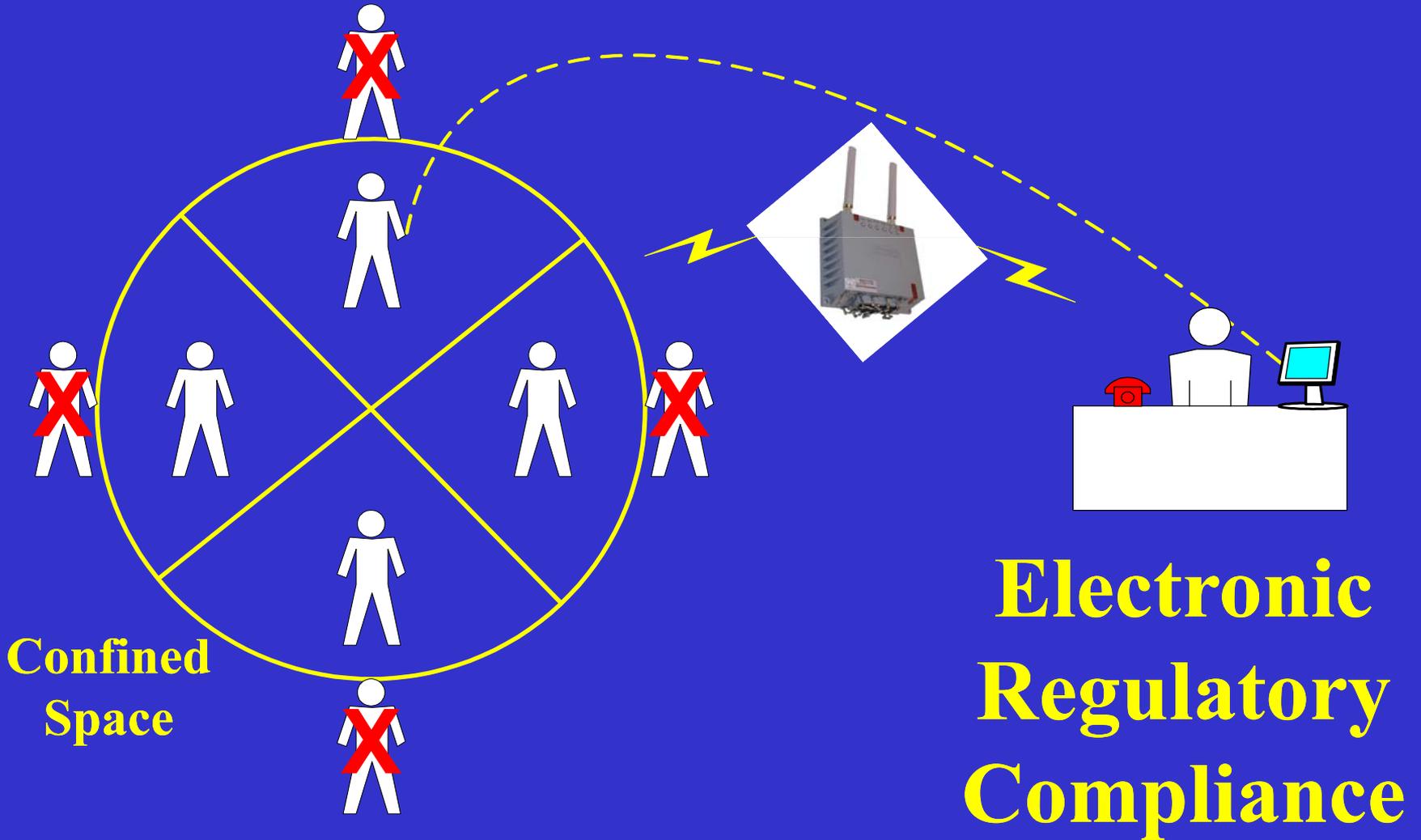
# Customers Include:



**GENERAL DYNAMICS**  
Electric Boat



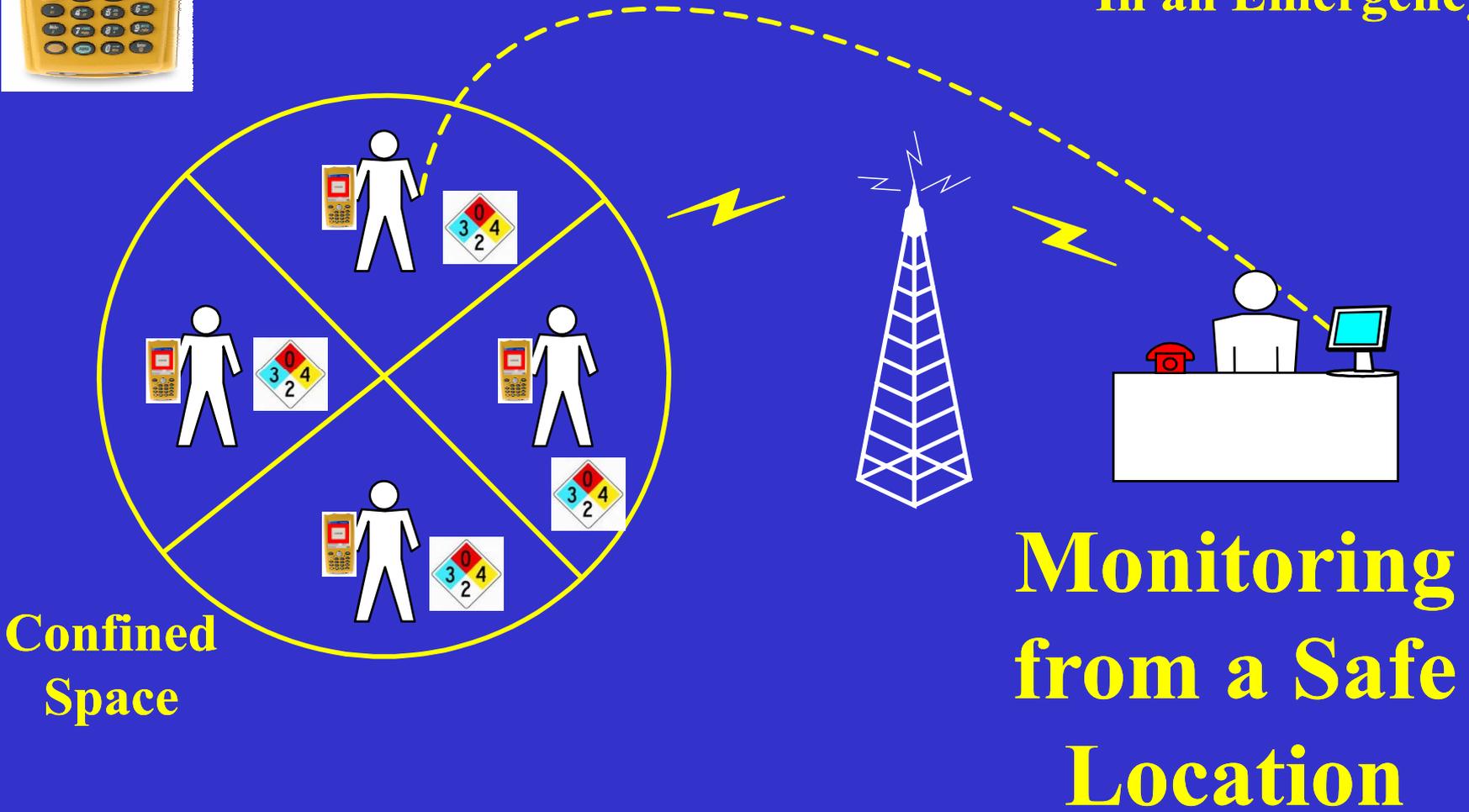
# Life•line



# Life•line



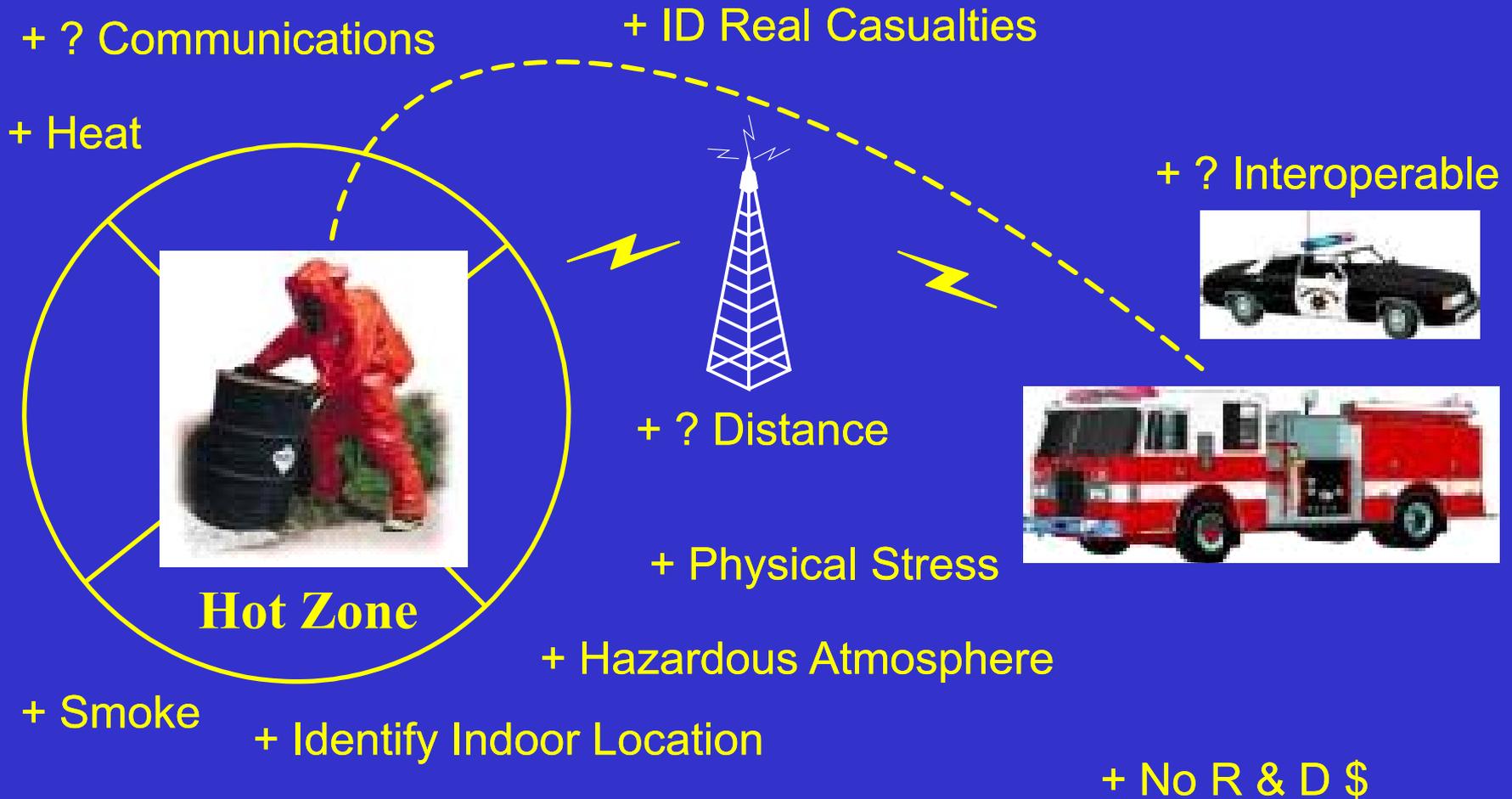
In an Emergency



Confined  
Space

Monitoring  
from a Safe  
Location

# Public Safety Problems



# Problem/Solution



**Problem:** Broadcasting sensor readings over traditional radio systems.



**Media can listen in and report inappropriate data to the public.**

# Problem/Solution

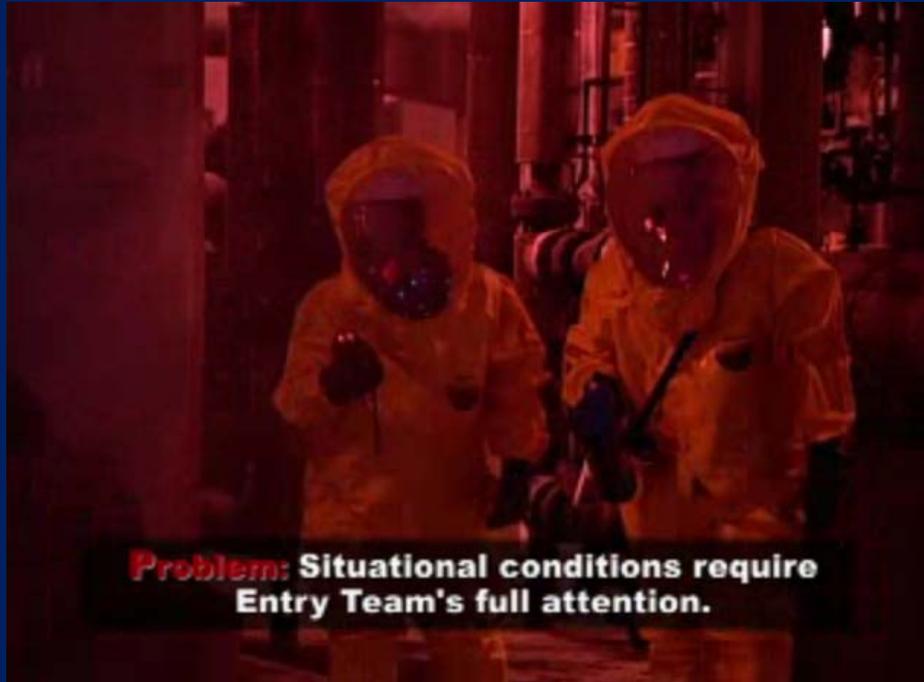


**Solution:** LIFELINE'S wireless Dongle transmits encrypted meter readings to commanders & technical representatives.



These decision makers can, in turn, make public announcements when and where appropriate.

# Problem/Solution

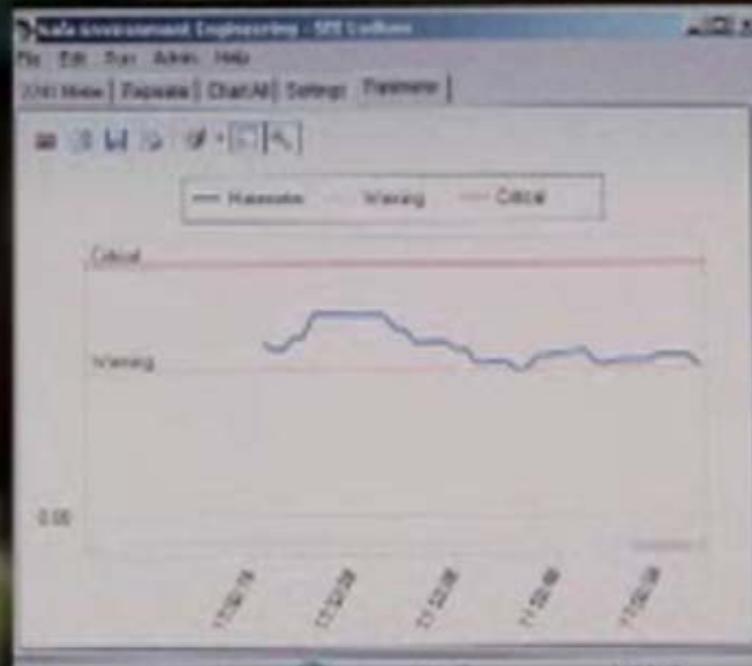


CO	SO2	H2S
0 ppm	0.00 ppm	0 ppm
O2	NONE	LEL
20.60 %	0 ppm	19 %

Elevated meter readings are not seen and potential hazards are missed.

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# Problem/Solution



**Solution:** Technical representatives view live trends from sensor readings and alert the Entry Team of changing conditions.

# Problem/Solution



# Problem/Solution

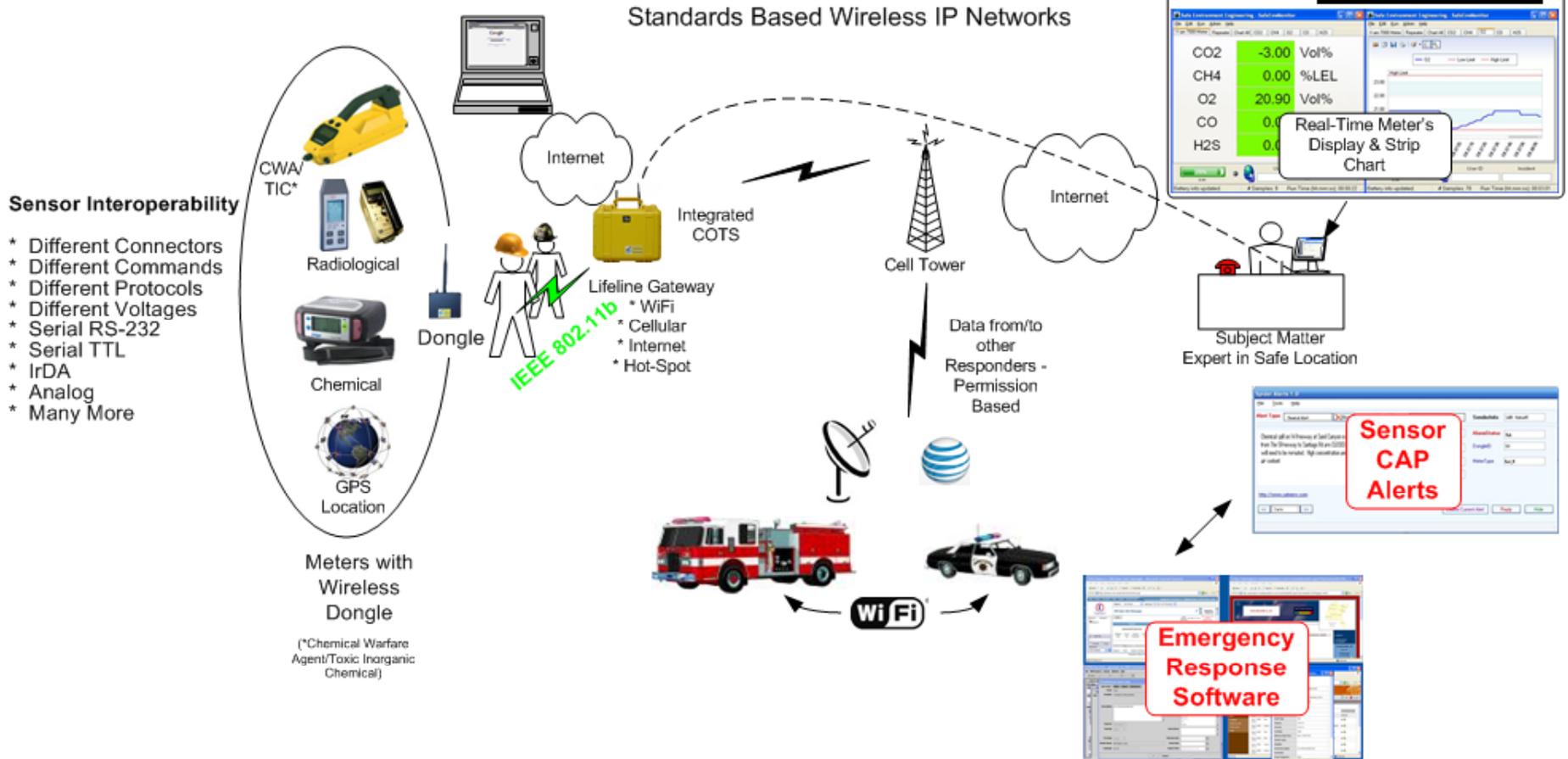


**Solution:** Implementing established cellular technology capable of penetrating many environments.

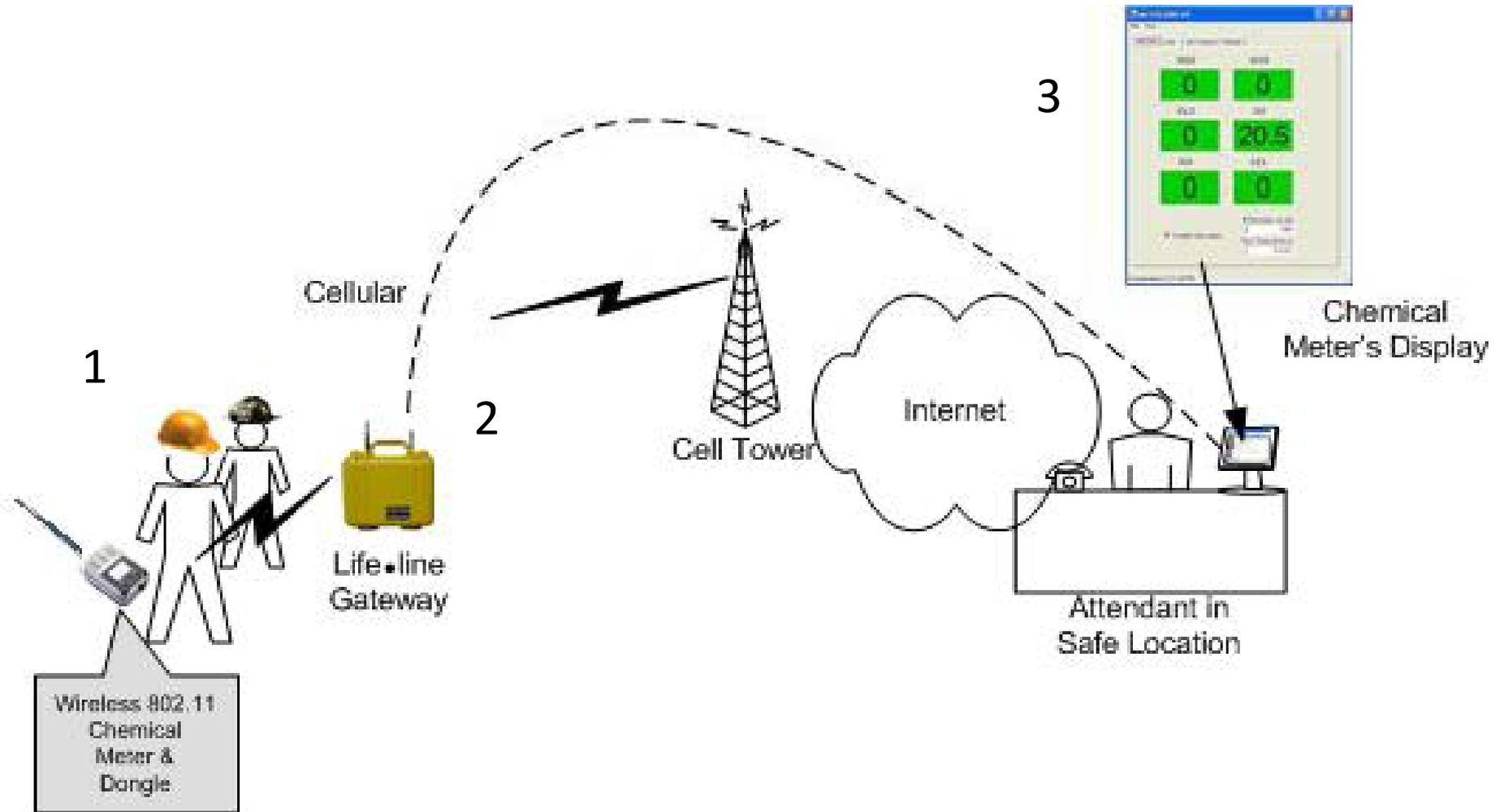


# The Life-line® Wireless Monitoring System

Interoperable systems from sensor to software  
Real-Time or On Demand



# Life-Line Wireless Monitoring System



# Federal Standard – Information Interoperability

Safe Environment Engineering - SEE iTX

File Edit Run Admin Help

iTX Meter Repeater Chart All CAP Alert LEL O2 CO H2S

**TopL Stream Settings**  
IP Address: 127.0.0.1 Status  Connected  
Port: 8200  Send

**GPS Settings**  
IP Address:  Status  Connected  
Port:   Get GPS

**Email Section**  
Send CAP Alert Message Email  
Receiver: info@safeenv.com  
Server: smtpout.secureserver.net  
Password:  Port: 80

**Alert Section**  
Identifier: SEE093533812  
Sender: CAP@safeenv.com  
Date Sent: 2007-11-22T09:35:33-08:00  
Status: System  
Msg Type: Update  
Source: Industrial Scientific iTX,SEE iTX.xml,000B2802  
Scope: Restricted

**Info Section**  
Category: Other  
Event: Reading  
Urgency: Immediate  
Severity: Unknown  
Certainty: Observed  
Date Expires: 2007-11-23T09:35:33-08:00  
Head Line: LEL:-3.%;Green;O2:20.7.%;Green;NONE;0;ppm;Gr  
Info Description: Probe Type:None  
Instruction: Sensors:6,Battery:38%

**Area Section**  
Area Description:   
Circle:

**DMI Services Open**  
Username:  COG ID:   
Password:   Send

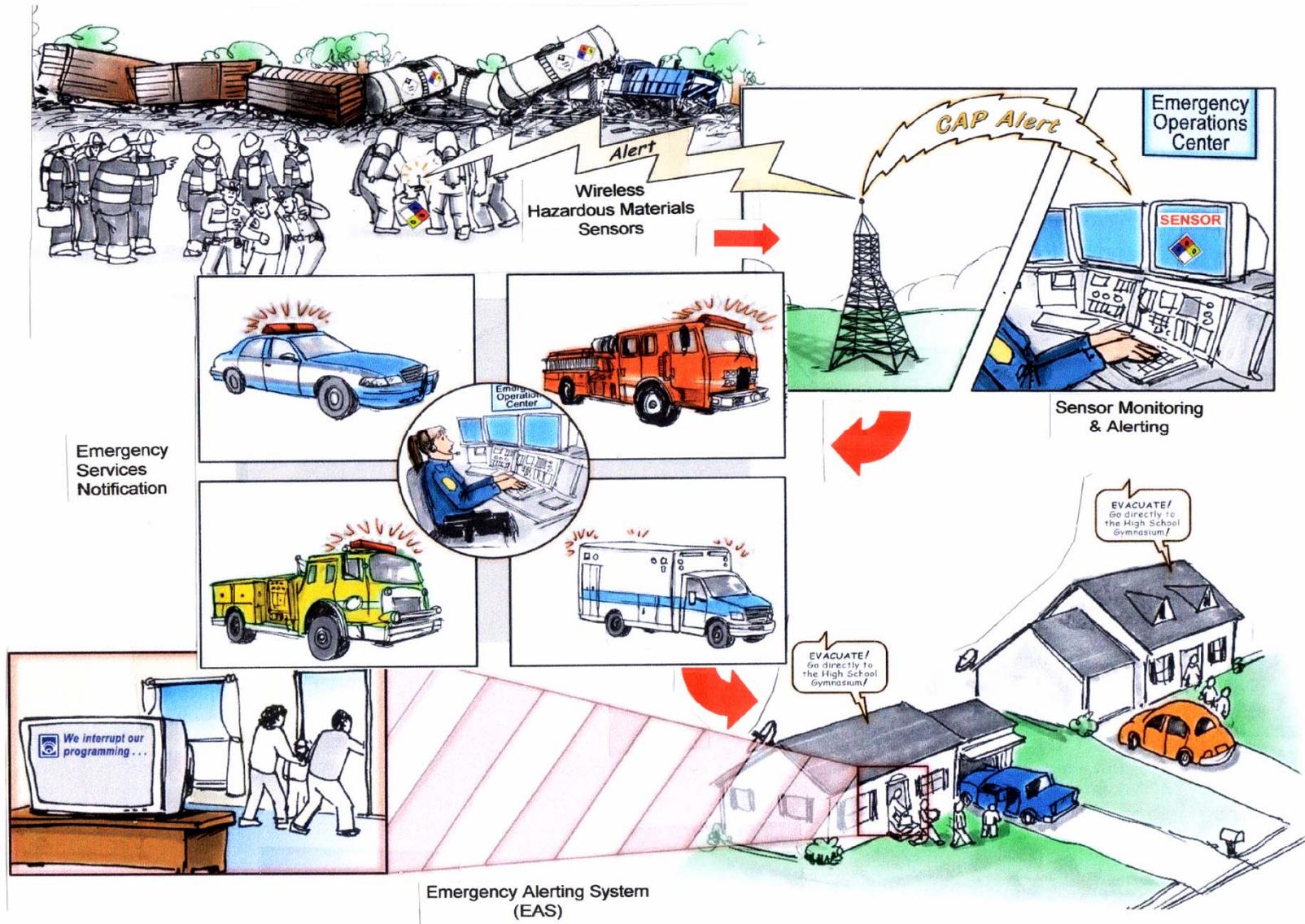
**MyStateUSA**  
Username: mystate  
Password:   Send

**Nuparadigm**  
 Send

Battery info updated.  3.5V

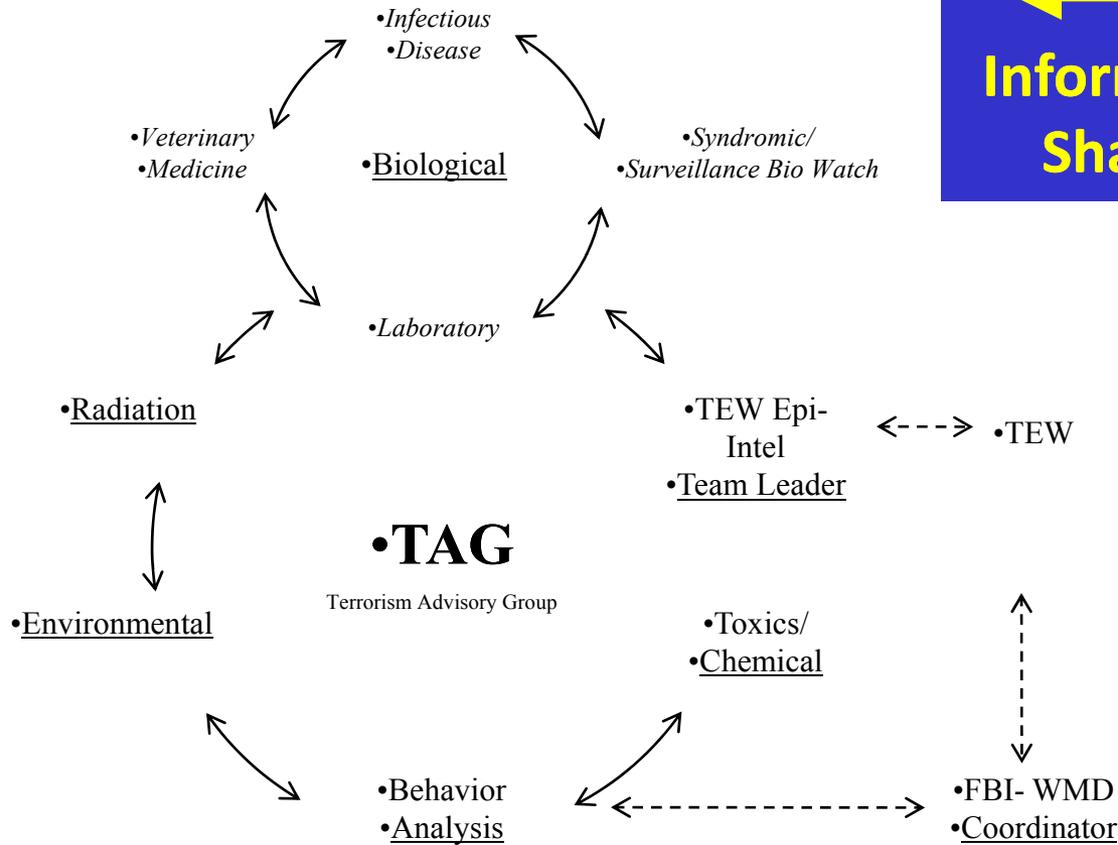
User ID:  Incident:

# Samples: 139 Run Time (hh:mm:ss): 00:04:32



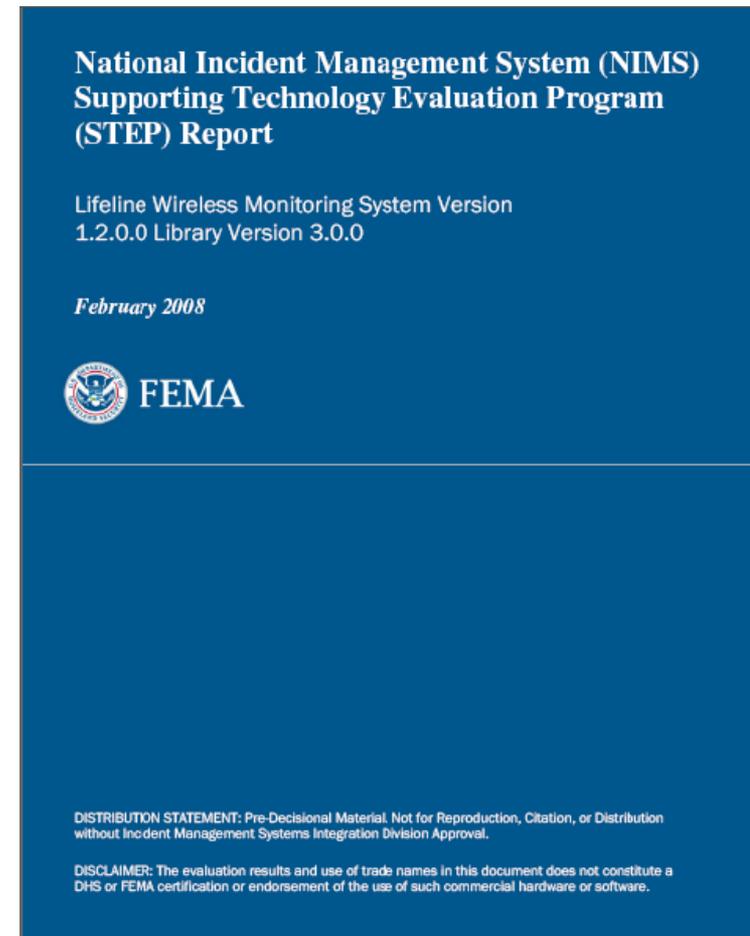
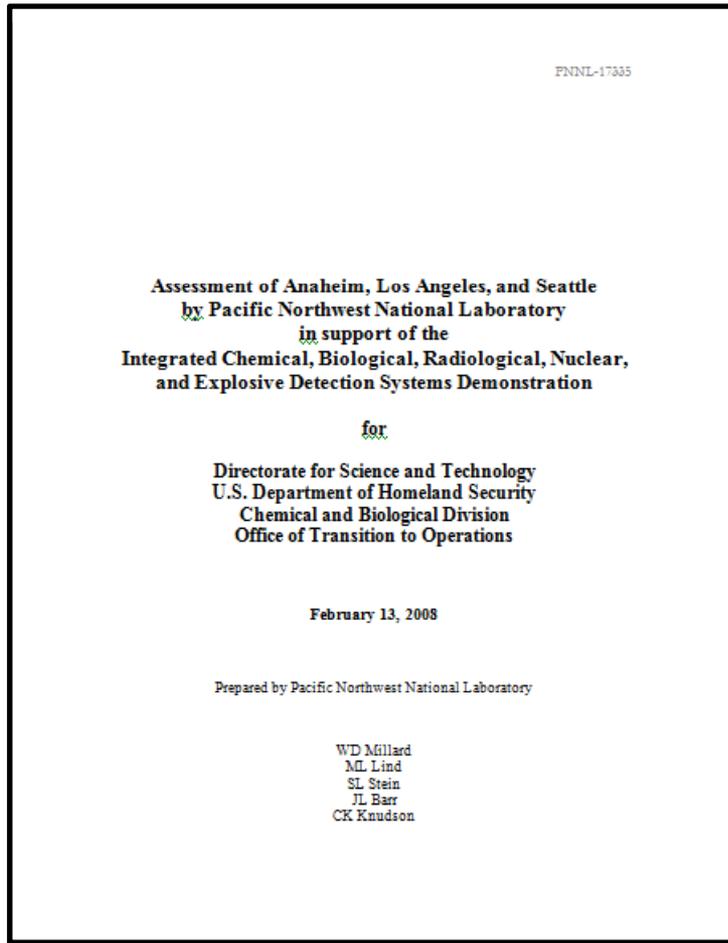
The alert traveled through a maze of different systems that added and filtered its content to ensure the accuracy of the information and its appropriate distribution.

# Regionalization



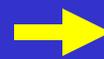
- Los Angeles City
- Los Angeles County
- Glendale
- Burbank
- Ontario
- Others

# Federal Recognition



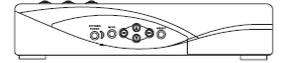
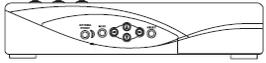
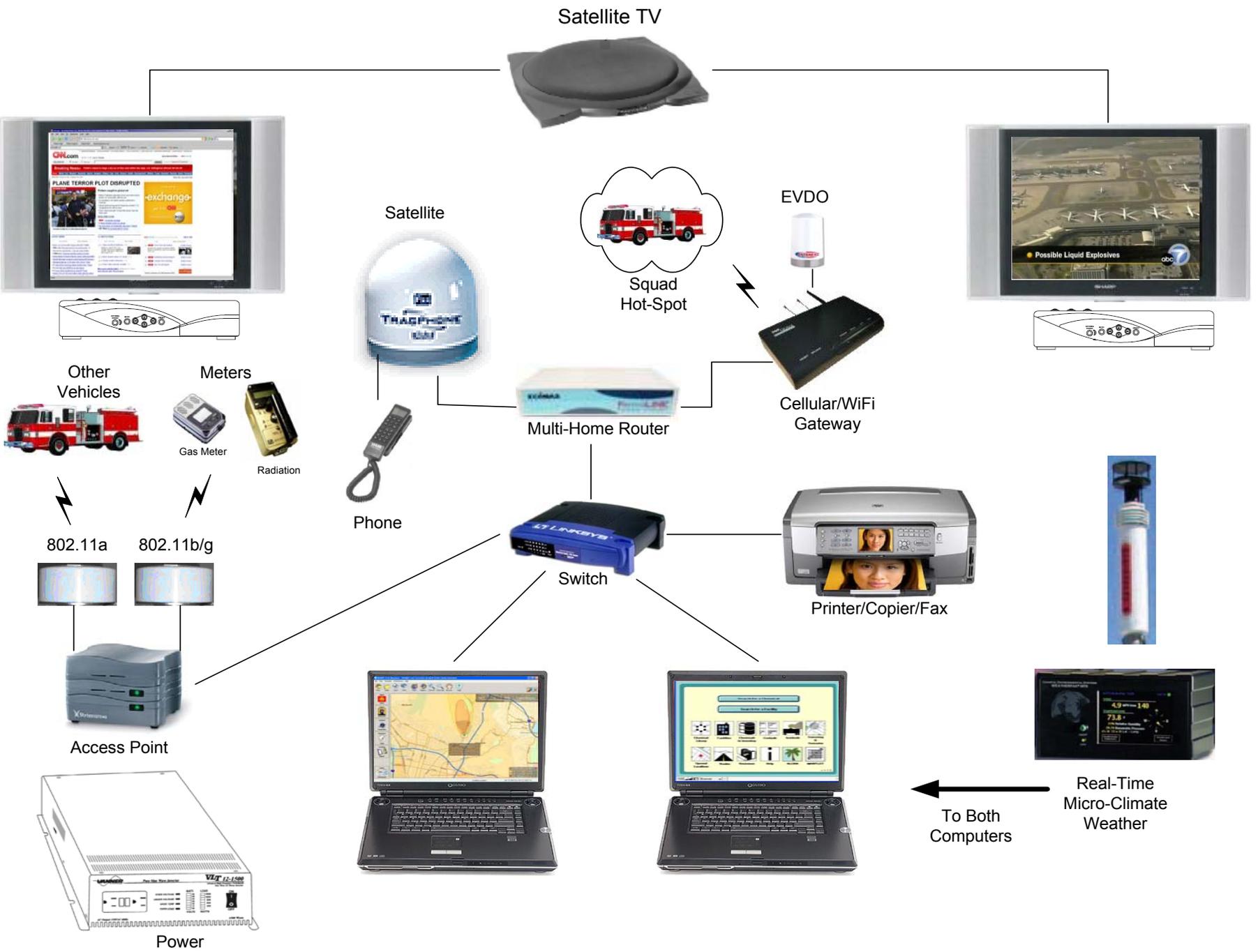
# Public Safety Solution

\$ / Grant



\$ S.E.E +





EVDO



Cellular/WiFi Gateway

Multi-Home Router



Switch



Printer/Copier/Fax



Phone



Other Vehicles



Gas Meter



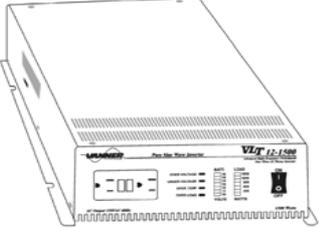
Radiation

802.11a

802.11b/g



Access Point



Power

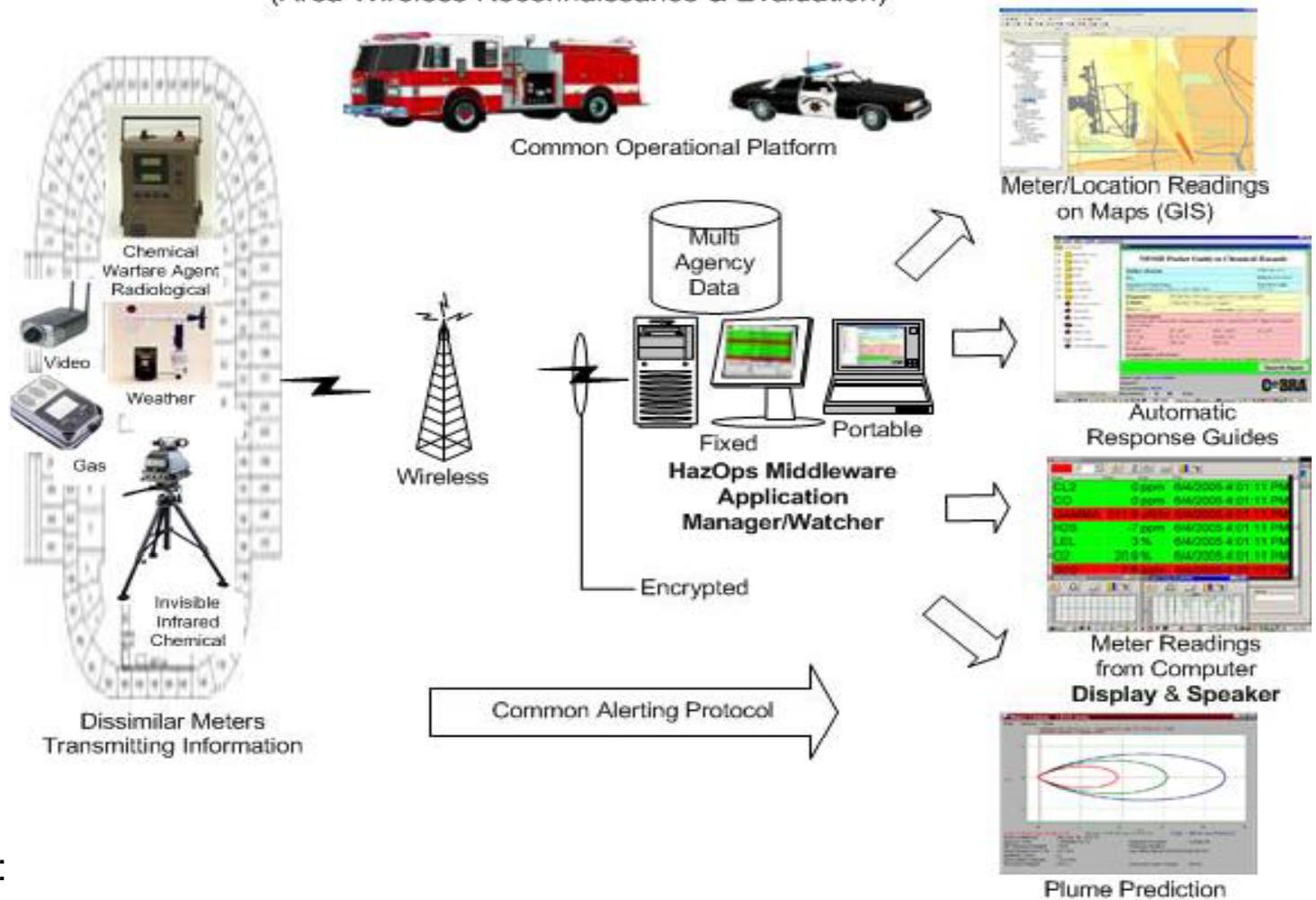


Real-Time Micro-Climate Weather

To Both Computers

# AWARE

(Area Wireless Reconnaissance & Evaluation)



## Applications:

Emergency Responses, Public Events, Building Protection, Mass Transportation Centers, Perimeter Monitoring, Hazardous Response, Confined Space Response, and Indoor/ Outdoor Air Quality Survey

# Systems Integration, Installation & Support



- **Clean Enclosed Freeway Close Facility**
  - **Engineers & Installers**
- **Support for Life-Safety Equipment (24/7)**
- **Innovators – Research & Development Facilitators**
  - **One-Stop Shop & Field Service**
  - **Support for Drills & Events**





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