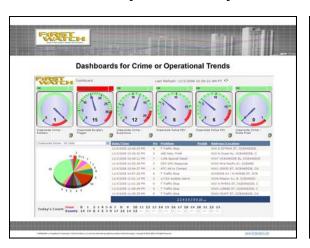


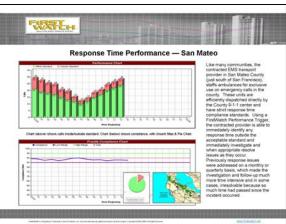
FirstWatch Dashboard & Trigger Examples

The following FirstWatch Dashboard, Trigger and Enhancement Module examples are based on actual usage from agencies that have deployed FirstWatch across North America.

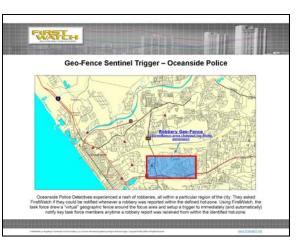
Real-time Dashboards fast & easy Trend Analysis



EMS, Fire and Police Performance & Operational



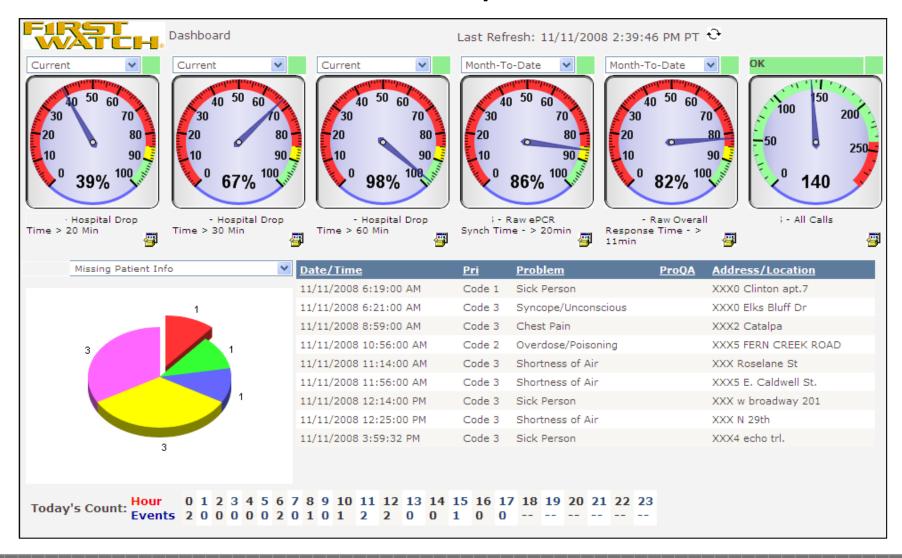
Public Safety, Public Health & Homeland Security



For more information and to schedule an online demonstration please contact us at: 760.943.9123 or via email to: info@firstwatch.net

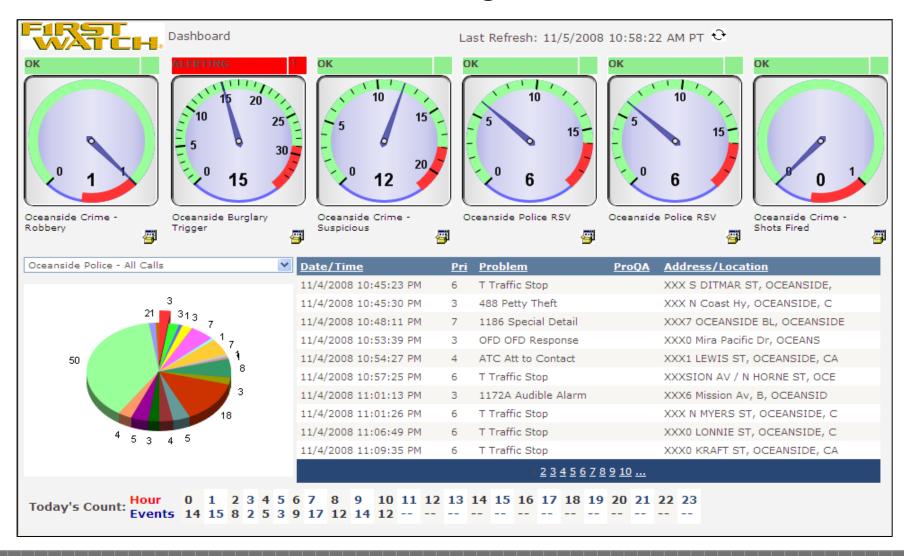


Real-Time Performance & Operational Dashboards





Real-Time Trending Dashboards





Real-Time Dispatcher / Call-Taker Performance

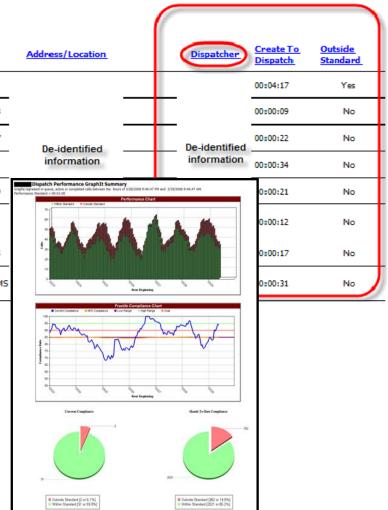
Dispatch Performance Current Call Information

Calls displayed represent active or performed calls between the hours of 4/8/2008 7:55:38 AM and 4/8/2008 7:55:38 PM. Performance Standard = 00:01:00

Data and Report from the FirstWatch	" Internet Server	

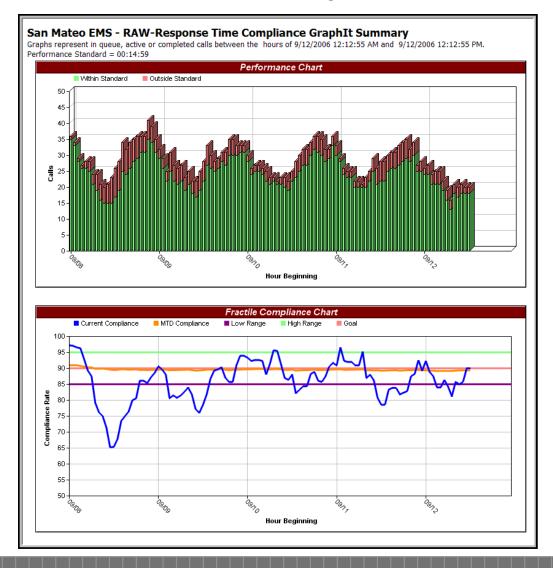
<u>GC</u>	Geo Valid	Time Sent To Queue	Problem	ProQA	Response #	<u>Unit</u>
	~	4/8/2008 8:13:25 AM	Falls		<u>25460</u>	5223
	~	4/8/2008 8:33:47 AM	Diabetic Problems		<u>25467</u>	00988
	?	4/8/2008 8:55:48 AM	Heart Problems / A.I.C.D.		<u>25470</u>	01197
	~	4/8/2008 9:01:34 AM	Hemorrage / Lacerations		<u>25472</u>	3050
	~	4/8/2008 9:04:23 AM	Falls		<u>25473</u>	01039
	~	4/8/2008 9:48:11 AM	Unknown Problem (Man Down)		<u>25480</u>	5223
	~	4/8/2008 10:23:33 AM	Abdominal Pain / Problems		<u>25483</u>	00975
	V	4/8/2008 10:24:44 AM	Traffic/Transportation Accidents		<u>25484</u>	GAEMS

When measured against pre-defined standards, dispatch related time intervals captured via CAD system operation may be used as Key Performance Indicators. In this instance, a CAD computed elapsed time of 4 minutes, 17 seconds, representing the dispatch interval between "clock start" and "clock stop" is noted to have exceeded the user-determined 60 second standard. Using FirstWatch, appropriate administrative personnel can be alerted in real time when current and/or month-to-date dispatch elements, calculated as a percentage of overall compliance goals, exceed user-set baselines.

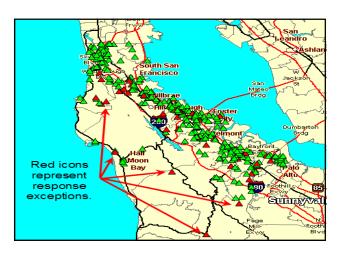




Response Time Performance



Like many communities, the contracted EMS transport provider in San Mateo County (just south of San Francisco) staffs ambulances for exclusive use on emergency calls in the County. These units are efficiently dispatched directly by the County 9-1-1 center and have strict response time compliance standards. Using a FirstWatch Performance Trigger, the contracted provider is able to immediately identify any response time outside the acceptable standard. immediately investigate and (when appropriate) resolve issues as they occur. Previously, response issues were addressed on a monthly or quarterly basis, this made the investigation and follow-up much more time intensive and, in some cases, irresolvable because so much time had passed since the incident occurred.





Response Time Performance, by Zone or Sector

In this example, CAD generated time stamps for defined response components are computed for a single specified Fire/EMS response zone and are measured against a user-defined standard (8 minutes, 90 % of the time). When response goals are not met, real-time alerts are automatically transmitted to pre-identified personnel accountable for agency performance objectives.

Zone 4 - 1st Responder Current Call Information

Calls displayed represent active or performed calls between the hours of 4/8/2008 5:23:20 AM and 4/8/2008 5:23:20 PM. Performance Standard = 00:08:00

Data and Report from the FirstWatch TM Internet Server

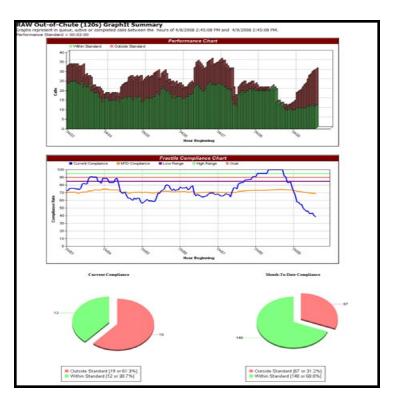
Outside Standard	Time Sent To Queue	Problem	ProQA	Response	# Unit	Address/Location	Assign To Enroute	Assign To Scene	Create To Dispatch
No	4/8/2008 6:13:19 AM	Traffic Accident (L1)	29D02f	023064	E44		00:02:28	00:04:27	00:06:55
No	4/8/2008 6:27:23 AM	Diabetic Problems (L1)	13C01C	023070	E37		00:02:44	00:02:44	00:05:28
No	4/8/2008 7:12:34 AM	Diabetic Problems (L1)	13C01	023077	E23 Zone 4 - 1st Responder GraphIt S	Summary to found of Chillian 5:00:00 AM and AU(2008 3:00:00 PM.	00:02:31	00:02:52	00:05:23
No	4/8/2008 7:34:49 AM	Unc/Fainting (Non Trauma)(L1)	31D01	023079	Transcal Senses Colonial Senses	Performance Chart	00:02:29	00:03:30	00:05:59
No	4/8/2008 7:45:11 AM	Traffic Accident (L1)	<u>29801</u>	023080	'4		00:04:14	00:02:33	00:06:47
No	4/8/2008 7:57:17 AM	Traffic Accident (L1)	<u>29806</u>	023082	Outer Columns # 100 Columns	America Constitution Cons	00:02:51	00:01:59	00:04:50
No	4/8/2008 8:36:06 AM	Traffic Accident (L1)		023086		Whi	00:03:13	00:03:19	00:06:32
No	4/8/2008 10:12:56 AM	Breathing Problems (L1)	06D03A	023094	Samuel Compliance	New Englands Stank To Date Compliance	00:02:07	00:01:47	00:03:54
No	4/8/2008 11:10:07 AM	Convulsions / Seizures (L1)	<u>12D02</u>	023103			00:01:52	00:02:18	00:04:10
					80 Outstake Dissentiant (2) or 0.07%] is Written Disselant (27 or 100.07%)	No Code and Translated (2K or 8 TW) N White Streeted (2K or 9 TV)			
					III Witter Standard (37 or 100/0%)	Within Shandard (366 or 91 1%)			





Out of Chute / Station Compliance

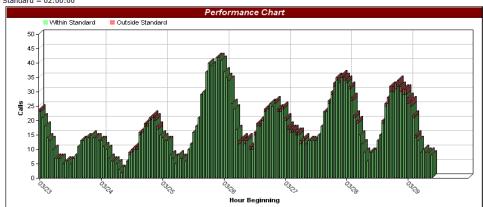
Performance and Operational Triggers provide real-time views and automated alerts to Command Staff accountable for response time related performance. In this example, FirstWatch monitors an "Out of Chute" time constructed of CAD generated time stamps between dispatch "time to queue" and squad "responding." Supervisory personnel are automatically alerted when Out of Chute times exceed the user-defined baseline (2 minutes in this case).





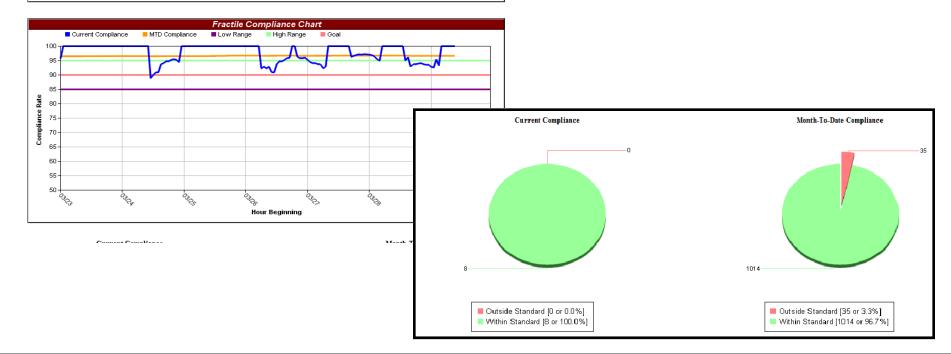
Time on Task GraphIt Summary

Graphs represent in queue, active or completed calls between the hours of 3/28/2008 9:43:59 PM and 3/29/2008 9:43:59 AM. Performance Standard = 02:00:00



Time-On-Task Compliance

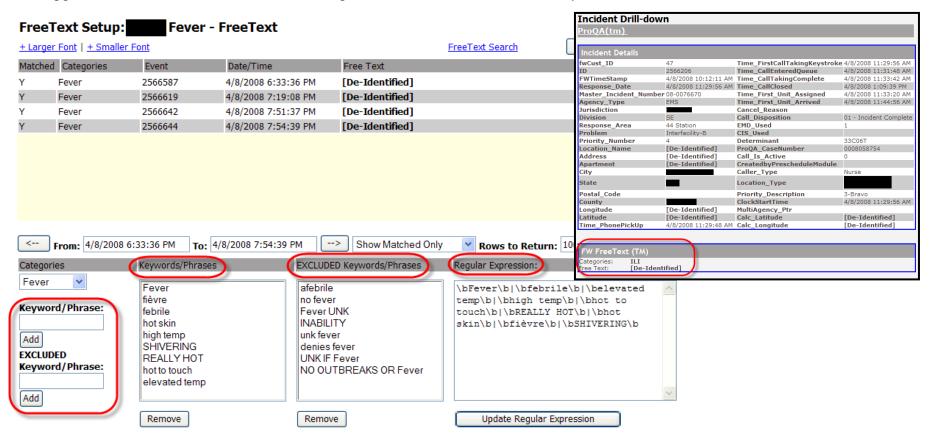
Agencies today are interested in real-time monitoring of time-on-task or time-on-scene. User defined criteria can be specified by various types of calls. For example, there may be an interest in measuring time-on-scene from time of patient contact for all cardiac related incidents as part of a cardiac research study. Automatic notifications can be generated for all units that fall outside of the designated response time goal.





Free Text Analysis and Automated Alerting

FirstWatch can also analyze user-defined free text using keyword or phrase inclusion, exclusion, and regular expressions rules. Comprehensive trend analysis or sentinel event notifications can be generated using FirstWatch Free Text Triggers. In this case, the customer is using free text rules to mine and analyze fever related events.

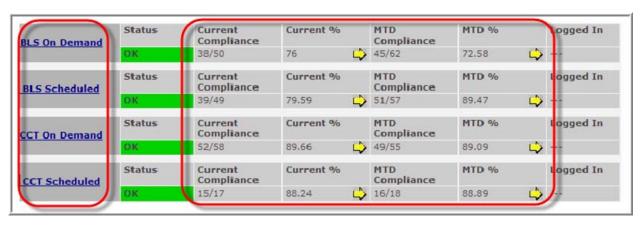


Server Time: 4/8/2008 5:51:49 PM PT

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Inter-Facility Contract Compliance



CCT Scheduled Current Call Information Calls displayed represent active or performed calls between the hours of 4/1/2008 5:45:07 PM and 4/8/2008 5:45:07 PM. Performance Standard = 00:15:00 Data and Report from the FirstWatch TM Internet Server										
<u>Geo</u> <u>Valid</u>	Time Sent To Queue	<u>Problem</u>	ProQA Response #	<u>Unit</u>	Address/Location	<u>Arrive</u> <u>Over</u> <u>Requested</u>	<u>Outside</u> Standard			
✓	4/8/2008 10:26:02 AM	сст	<u>04082008-</u> <u>0002876</u>	BLS46			No			
✓	4/8/2008 10:26:02 AM	ССТ	<u>04082008-</u> <u>0002875</u>	CCN1	— De-identified	De-identified_	No			
✓	4/8/2008 12:08:55 PM	ССТ	04082008- 0002888	BLS47	information	information	No			
✓	4/8/2008 12:08:55 PM	сст	04082008- 0002887	CCN2			No			
✓	4/8/2008 3:45:44 PM	ССТ	<u>04082008-</u> <u>0002902</u>	CCN3			No			

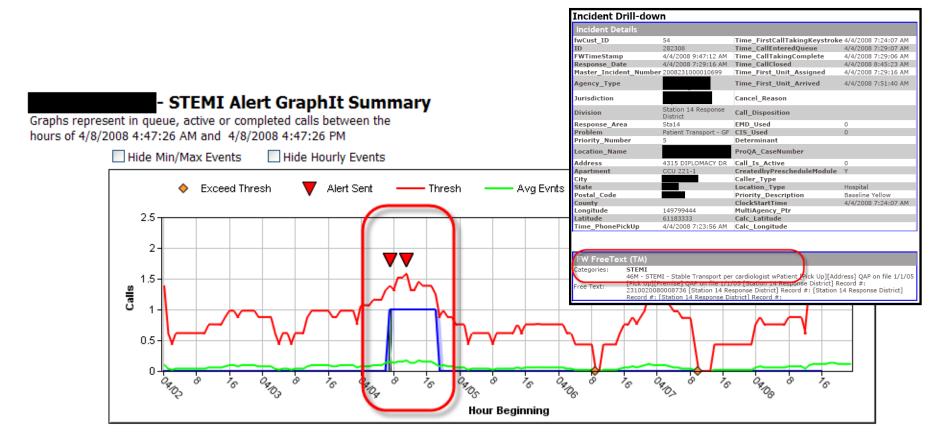
Inter-facility transports are an essential function for many EMS providers. Many private ambulance providers adhere to stringent response time requirements for their contract hospitals. As such, delayed pickup times can not only slow down system performance, but they can cost lives and diminish profitability for an organization. These KPI Triggers provide real-time monitoring of contract hospital pick up and can be measured against requested or promised pickup times. Automatic notifications can be generated for all response times that fall outside of the designated response time goal.

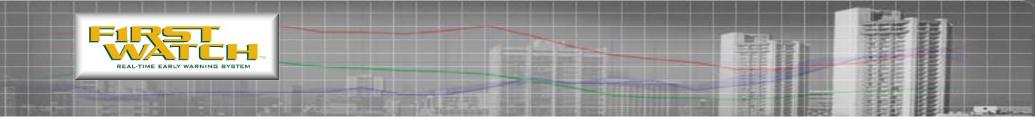
The Status Page Dashboard (to the left—gray box) provides a snapshot of current and month-to-date compliance without the need to invest human resources to run lengthy reports. Instead the minutes old view from FirstWatch can provide a quick look at 'how you are doing today' as well as charts, graphs and maps that offer greater detail on what has happened in the last 12 or 24 hours. With the FirstWatch Analysis Tool, you can look retrospectively to see how you performed against goal, last week, last month, last quarter—or year-to-date.



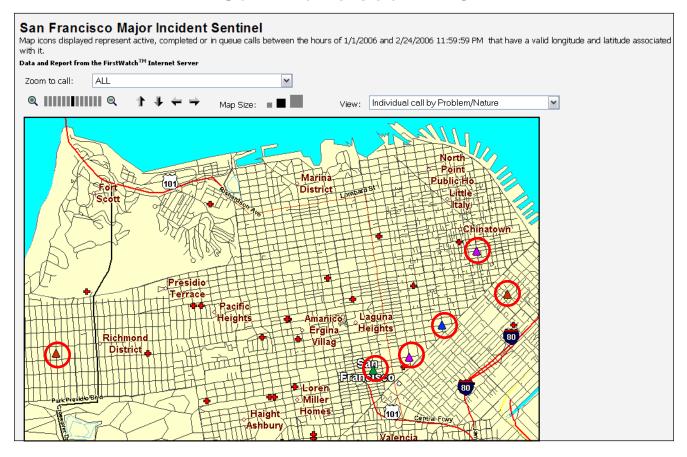
STEMI Alert and Incident Drill-down

When EMS Medical Directors requested notifications for all STEMI's within their jurisdictional area—our savvy EMS customers turned to FirstWatch! Now real-time STEMI data views, incident drill downs, maps, charts are generated on the fly and automated alerts are sent out as soon as STEMI criteria is met, as defined within their system. Further evolution of the STEMI Trigger could include automated notifications of Hospital ED and Catheterization Lab teams.

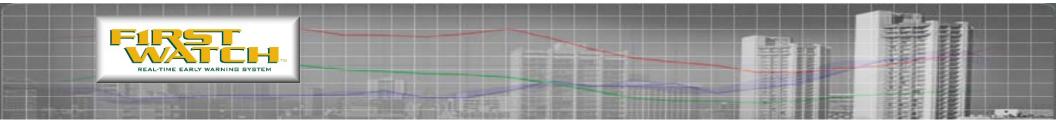




San Francisco - MCI



San Francisco City and County EMS officials needed a way to be notified in real-time of any major Mass Casualty Incident (MCI) within the City. San Francisco Fire and EMS responses vary greatly in a community like San Francisco, so the agency needed a FirstWatch Trigger that could watch for a complex set of criterion. The FirstWatch MCI Trigger constantly scans for events where a certain number of units and specific types of apparatus are assigned and arrive on scene, while filtering out other types of calls. Once the criterion indicates an MCI, alerts are sent to notify the specified officials.



ePCR Compliance – Charleston EMS

Charleston ePCR Compliance Current Call Information

Calls displayed represent active or performed calls between the hours of 2/23/2006 2:16:00 PM and 2/24/2006 2:16:00 PM.

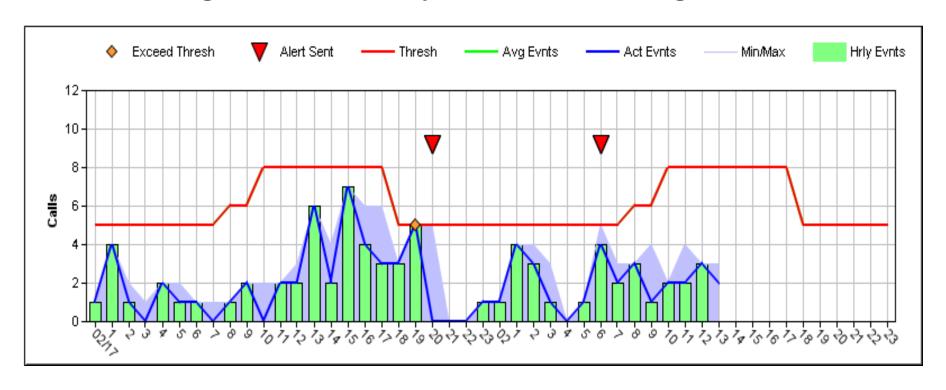
Data and Report from the FirstWatchTM Internet Server

<u>ePCR</u>	Time Assigned No ePCR	Time ArrivedAtScene	<u>Pri</u>	Problem	<u>Call Disposition</u>	Response #	<u>Unit</u>
*	2/23/2006 2:5 1 /48 PM	2/23/2006 3:02:10 PM	5	Sick Party NPS	Patient Transported	00099255	M02
	2/23/2006/3:05:44 PM	2/23/2006 3:12:45 PM	4	Medical Alarm	Patient Assist	00099256	M19
-	2/23/2006 3:11:08 PM	2/23/2006 3:17:25 PM	4	MVA - Injuries	Patient Transported	00099257	M18
-	2/23/2006 3:39:03 PM	2/23/2006 3:42:20 PM	5	Sick Party NPS	Non-Transport	00099262	A30
-	2/23/2006 3:36:32 PM		5	Sick Party NPS	Non-Transport	00099261	M12
K	2/23/2006 3:41:54 PM	2/23/2006 3:48:10 PM	3	Sick Party-Cardiac Hx	Patient Transported	00099263	M14
	2/23/2006 4:38:01 PM	2/23/2006 4:42:47 PM	3	Diabetic -Charlie Override	Patient Transported	00099265	M01

Every EMS agency understands the importance and necessity of maintaining adequate documentation of all patient encounters, but there are times when due to the normal busy nature of the job some reports are not completed/submitted right away. Using FirstWatch, Charleston EMS created a Trigger to ensure an electronic patient care report (ePCR) is completed for each response where a crew arrived on scene. FirstWatch integrates data from Charleston's CAD & ePCR systems and provides a real-time quality assurance check that allows them to identify when a report is missing. This tool ensures that all reports are turned in for 100% compliance before the crew finishes their shift.



High Volume Activity Sentinel – Bowling Green



Using FirstWatch, managers with Bowling Green Kentucky's EMS system created a Trigger to alert them when resources are being stretched too thin. The High Volume Sentinel Trigger alerts designated EMS managers when certain dynamic call volume thresholds are exceeded (based on their staffing model). FirstWatch enables EMS managers to quickly make assessments and decisions (based on real-time data) to add additional team members as needed to handle the increased call volume.



Rain, winds pound Northern California

Northeast, Great Lakes remain cold

Tuesday, February 28, 2006; Posted: 9:42 a.m. EST (14:42 GMT)

SAN FRANCISCO, California (AP) - A storm bringing wind gusts of nearly 100 mph and heavy rains toppled trees, power lines and a

toppled trees, power lines and a 30-ton construction crane Monday night.

More than 100,000 Pacific Gas and Electric Co. customers were without power as of 11 p.m. Monday night, PG&E spokeswoman Jana Schuering said.

Most of the power outages were reported



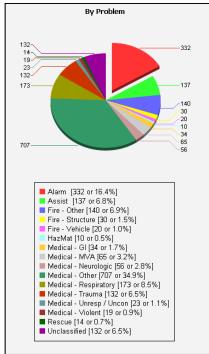
The continental United States as seen at 6:30 a.m. ET.

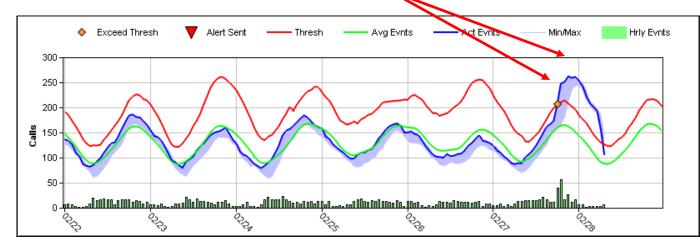
FirstWatch Chart (below) outlines Spike in Emergency Responder activity during the height of the storm.

Emergency Preparedness

When disaster strikes, the dissemination of accurate and up-to date information from the front lines becomes ever more crucial. When hurricane Katrina devastated the gulf coast in 2005, State and Federal authorities struggled to get accurate and timely information from the scene. FirstWatch is able to bridge that information gap by allowing agencies to share identified or de-identified 9-1-1 call information with regional and federal emergency management organizations in real-time. In 2006, when hurricane force winds pounded the San Francisco Bay area, FirstWatch worked in the background and was able to share a real-time perspective of the storm's impact based on where the calls

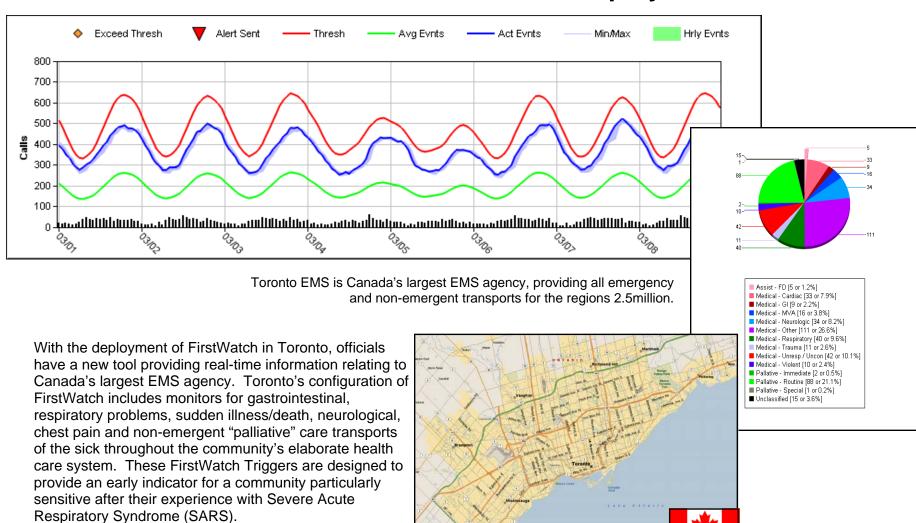
were coming from, nature of the call and number of calls taken. Whether a short lived storm or a major disaster like an Earthquake, Hurricane, or Wildfire, FirstWatch can provide officials with a front-line perspective of the impact with real-time information.





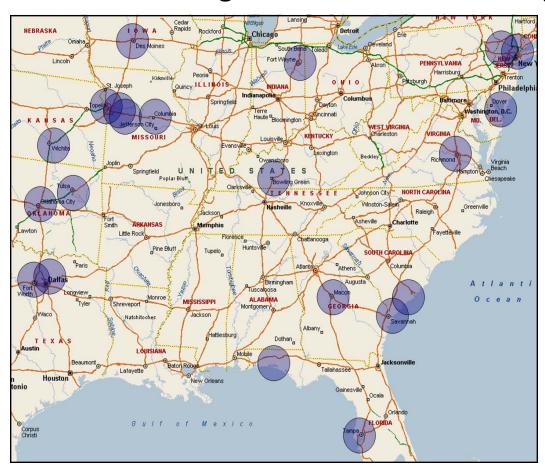


Pandemic Driven International Deployments





Regional Influenza Network (RIN) Trigger



Using FirstWatch, public health officials from 19 communities (representing 13 states) are tracking potential flu outbreaks by monitoring live calls to 9-1-1 Public Safety Dispatch Centers. Epidemiologists are monitoring for spikes in "flu- like symptoms" including respiratory problems, abdominal pain, headache and other indicators associated with possible flu cases. The RIN Trigger can monitor these symptoms whether they appear in a local jurisdiction, in regional geographic clusters, or across the entire population.

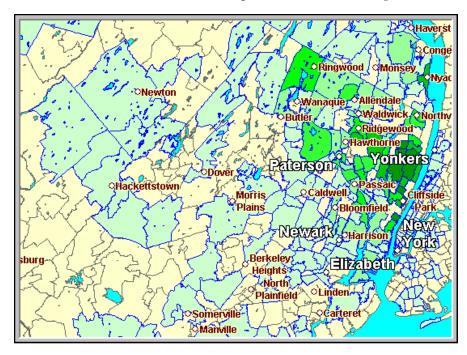
The built-in ability to aggregate data from different cities in real-time makes the RIN Trigger an even more powerful and timely tool for public health and public safety agencies.

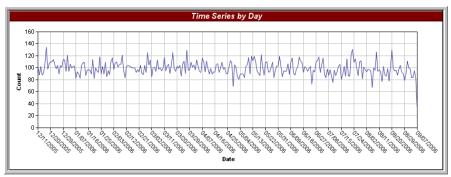
Because FirstWatch monitors trends using real-time data, public health personnel know they can start to investigate and respond to an outbreak or seasonal sickness much earlier than if they were to wait for lab results or reports from doctors' offices. Participating RIN communities share data, (and related pattern criteria) which could indicate potential outbreaks, providing crucial hours or days of advance warning.

Map (above) shows current communities that are participating in the RIN network, including: Bergen County, NJ; Boone County (Columbia), MO; Bowling Green, KY; Charleston County, SC; Des Moines, IA; Ft Wayne, IN; Ft Worth, TX; Independence, MO; Johnson County, KS; Kansas City, MO; Macon, GA; Oklahoma City, OK; Plano, TX; Richmond, VA; Savannah, GA; Sedgwick County, KS; Sussex County, DE; Long Island, NY and Tulsa, OK.



Real-time analysis of Hospital, Poison Control and other data





In addition to monitoring 9-1-1 data, FirstWatch can be rapidly and easily deployed to monitor a variety of existing data systems including Hospital, Clinical, Poison Control Center and Paramedic Electronic Patient Care Reports (ePCR). Our flexible approach lets FirstWatch integrate directly (via read only) with existing data systems or receive data pushed from a system using HL7, FTP, Web Services, or other acceptable methods.

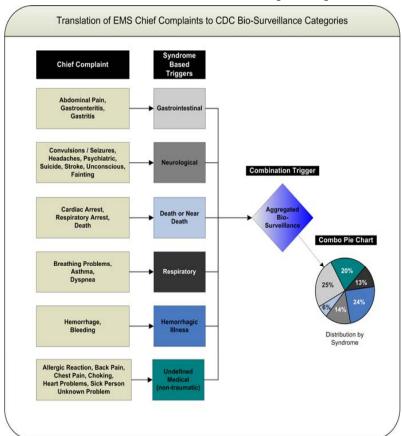
FirstWatch can compile and merge data from multiple sources for analysis based on user defined criteria. To add to the flexibility of monitoring data, FirstWatch has free-text analysis tools designed to search through triage and diagnostic fields for clinical information with the built-in ability to handle misspellings, abbreviations and other coding systems like ICD9 and SNOMED.

These free-text tools also include several key attributes including the ability to build "regular expressions" that search for words and phrases in relation to other words. Using regular expressions improves syndrome grouping by programmatically accounting for the myriad of language variations.

The FirstWatch free-text tools allow authorized users to make instantaneous modifications to the program on-the-fly. Another strength of the FirstWatch Network is the ability to build your own free-text analysis package from scratch, or to import (or build) off a shared analysis package from other current users.



Bioterrorism (BT)



Using Public Safety 9-1-1 call data for bioterrorism (BT) and health surveillance has created a new awareness of the value of emergency pre-hospital data. FirstWatch, a pioneer in Public Safety 9-1-1 call data analysis, has been actively monitoring real-time 9-1-1 call data since 1999. Now processing more than 20,000 real-time Public Safety encounters daily from systems throughout North America, FirstWatch is the largest real-time network of its kind.

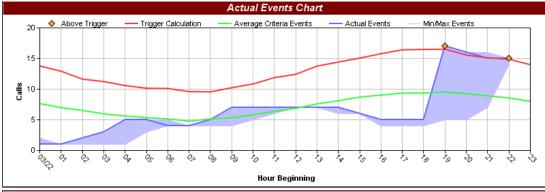
Public Health Officials recognize that information from multiple data sources is required to develop the best assessment of a community's overall health. Public Safety 9-1-1 data brings a number of distinct benefits providing a very unique and timely perspective. Typically the geographic area covered by a 9-1-1 system is very large, many times comprised of a multi-city or county area. Other data sources, such as hospital emergency department data, represent a much smaller geographic footprint. Additionally, 9-1-1 data is processed in a very timely manner, typically within one or two minutes. Once processed, the 9-1-1 information includes not only specific chief complaint criteria, but also includes a geographically specific location which can be used to provide a precise location for the patient. The combination of a large service area, timeliness of information, and geographically validated location data (via FirstWatch) offers health officials a valuable situational awareness tool.

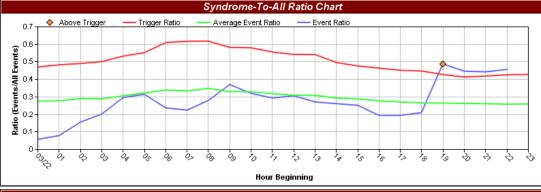
Patient information collected during a 9-1-1 call can vary from agency to agency. However, users of the Priority Dispatch ProQA, an automated expert algorithm system software, can gather a variety of health data including age, sex and acuity to categorize a patient into almost **300 condition**determinants. ProQA provides additional value by ensuring consistency in the call screening process where each incident is processed the same way.

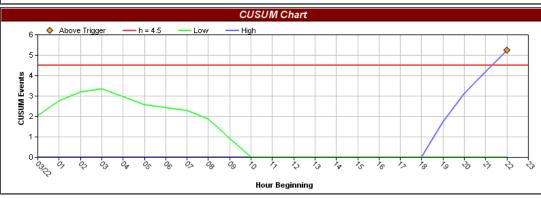


FirstWatch is the only organization integrating real-time Command and Dispatch (CAD) data with ProQA data in a seamless interface. The system also includes supplemental screening tools designed to screen for exposure to Chemical, Biological, Radiological or Nuclear exposure (CBRN) and symptoms associated with severe respiratory syndrome, including information relating to recent travel to high risk locations. Public Safety and 9-1-1 teams are on the front lines of health emergencies, and FirstWatch provides real-time analysis and alerting.









Food Borne Illness

In March 2006 Okaloosa County, FL Public Health & Safety officials were concerned when their FirstWatch Bio-surveillance Trigger registered an abrupt and significant jump in cases.

The increase in the call volume occurred when a number of patients experienced sudden and violent gastrointestinal problems after eating at a local seafood restaurant.

This alert analysis summary demonstrates how FirstWatch is a very early indicator of events. Early identification of events is crucial in the detection and treatment of public health events.

Chronology of this alert: as you see from data analysis charts (to left), the Actual Events analysis exceeded the user defined threshold/standard deviation level at 7pm as indicated by the Gold Diamond icon. The Syndrome-To-All Ratio Analysis (comparing data criteria selected to overall volume of calls) also exceeded the threshold at 7pm as indicated by the Gold Diamond icon. But based on the Trigger Alert for this particular customer, the actual Alert was generated at 10pm, when the Cumulative Summary Analysis along with the other two measurements all exceeded the user-defined threshold, as indicated by the Gold Diamond icon.

Once the user-defined limits had been exceeded, FirstWatch automatically sent an alert including charts, maps and related information, to authorized personnel via email, pager and fax.



FirstWatch Fire Trigger Examples

RAW Performance Triggers/Time Compliance Analysis:

- •<u>Dispatch Time</u> used to monitor the time it takes dispatchers to dispatch the initial call against a time standard.
- •Out of Chute/Reflex Time used to monitor the time it takes units to respond once they've been assigned / dispatched to an incident.
- •Response Time used to monitor the response time for an incident. There are many variables to start and stop clock times.
- •<u>Time on Task</u> used to monitor the total time a unit is on a call from time assigned/dispatched to the time the go is available or the call is cleared.



FirstWatch Fire Trigger Examples

Sentinel Event Detection Triggers:

- Suspicious fire activity
- Dumpster fire
- · Grass/brush fire
- Vacant building
- Smoke investigation
- Vehicle fire
- Boat
- Tree
- Arson
- Fireworks
- Tree
- Transformer/Pole
- Illegal Burn
- Explosions
- Terrorism Sentinel

Situational Awareness Triggers:

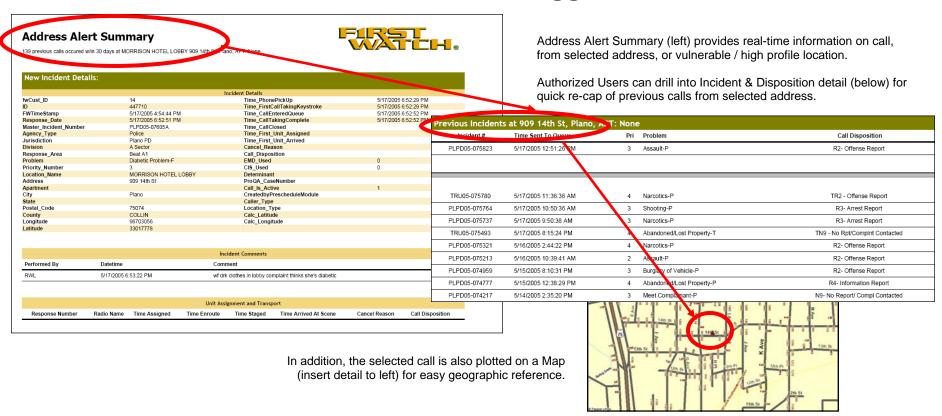
- Strike Team assignment
- Hazmat/Chemical
- Task Force Request
- Arson Investigation
- Multi-Alarm Fires
- Commercial Structure
- Residential Structure
- Swift Water Rescue
 - > X Engines responding

Trend/Pattern Analysis:

- Suspicious Fire Activity
- Suspicious Activity Analysis



Address Alert Triggers



First responders are confronted with dangerous situations daily. It is common practice for responders to begin assessing a situation and developing an action plan, based on available information, while they are en-route to a scene. The FirstWatch Address Alert is designed to provide responders with real-time background information on selected addresses before they arrive. A routine response to an address with a patient experiencing chest pain may have been the site of a meth-lab bust, assault with a knife or other serious situation just hours, days or weeks earlier. This Trigger provides responders with information to protect themselves, request backup (or additional support) and ultimately allow for safer and better preparation on scene. Many agencies have the ability to review premise history. However, the process is manual, time intensive and requires busy dispatch personnel to make timely decisions on information that should be shared/communicated with the responding units en-route. FirstWatch automatically scans for address history without taking the dispatcher away from their other duties.



Arson Alert — Las Vegas



Officials in Las Vegas use FirstWatch to monitor for suspicious activity related to possible arsons. This FirstWatch Trigger looks for volumetric increases or geographic clusters of suspicious fire activity such as: dumpster fires, grass fires and vehicle fires. Fire officials are keenly aware that juvenile fire setters may escalate their dangerous behavior. This Arson Trigger is designed to quickly alert officials (in real-time) to suspicious patterns before trends escalate.

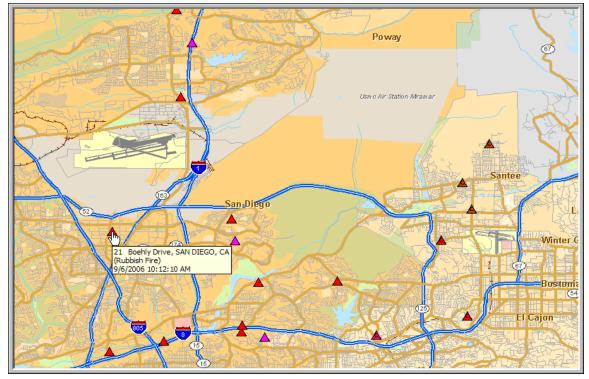


All Fires Trigger – San Diego County

Like many Southern California communities, San Diego is subject to ferocious wildfires that often impinge on the expanding urban areas of the county. Using FirstWatch, San Diego Fire Officials can view real-time information on all active fires across the county. FirstWatch pulls data from 9-1-1 centers serving the cities of San Diego, Oceanside and two regional JPA multi-jurisdictional 9-1-1 centers, serving 20 different agencies across San Diego County.

The All Fires Trigger pulls data from all four 9-1-1 centers (in real-time) across San Diego County and provides a single view of all active fire calls, including alerts indicating when shared assets such as wildfire strike teams, are committed to other scenes. This Trigger also allows the centers to gather real-time information from fire incidents along jurisdictional borders that often result in calls from concerned citizens.

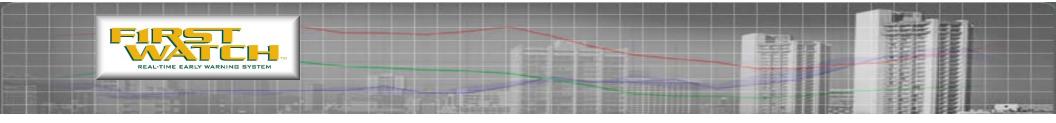
This map (right) shows all reported structure, vehicle, wild land or other types of fires, by pulling real-time data from multiple agencies across San Diego County.





Law Enforcement Trigger Examples

- **➤ RAW Performance Triggers/Time Compliance Analysis:**
 - •<u>Dispatch Time</u> used to monitor the time it takes dispatchers to dispatch the initial call against a time standard.
 - •Enroute Time used to monitor the time it takes units to respond once they've been assigned / dispatched to an incident.
 - •Response Time used to monitor the response time for an incident. There are many variables to start and stop clock times.
 - •<u>Time on Task</u> used to monitor the total time a unit is on a call from time assigned/dispatched to the time the go is available or the call is cleared.
- ➤ Sector Calls (A, B, C, D)
- ➤ Demand Analysis
- ➤ Operational, Command Staff or Supervisory Sentinel



Law Enforcement Trigger Examples

Sentinel Event Detection Triggers:

- ➤ Hot Prowl Sentinel
- ➤ Robbery Sentinel
- ➤ Shots Fired
- ➤ Bomb/Explosion Sentinel Free Text
- ➤ High Profile Location Sentinel
- ➤ Homeland Security Sentinel
- ➤ Major Incident Sentinel (>X units assigned)
- ➤ Amber Alert
- ➤ Officer Involved
- ➤ Shooting/Stabbing/Death
- ➤ Home Invasion Geo-Fence Sentinel
- ➤ Pediatric Drowning

Trend/Pattern Analysis:

- ➤BMV (Burglary in Motor Vehicle) Geo-Cluster
- ➤ Auto Theft Analysis
- **≻CAPERS** Analysis
- ➤ General Nuisance Analysis
- ➤ Sex Crimes Analysis
- ➤ Vice Analysis
- ➤ Suspicious Activity Analysis

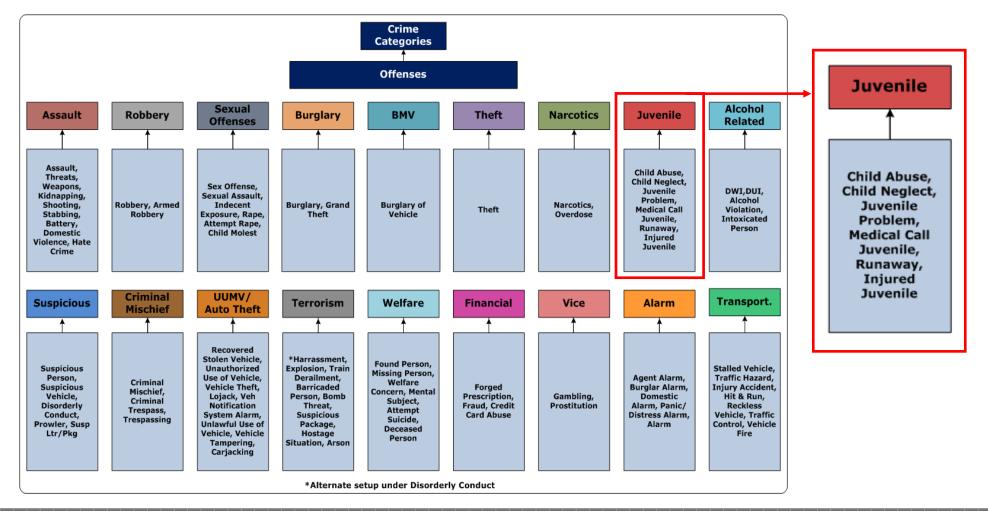
Situational Awareness Triggers:

- ➤ All Calls
- ➤ Situational Awareness
- ➤ Auto Theft
- ➤ Fights
- **≻**Prowler
- **≻**Robbery
- ➤ Sex Crimes
- ➤ Suspicious Activity
- ➤Transportation
- ➤ High Profile Location Situational Awareness
- ➤ Mass Casualty Incident (MCI) > X units on scene
- ➤ Public Order
- ➤ Changeable Address Search
- ➤ Address Alert
- ➤ Free Text—Hot Alert
- ➤ Free Text—Watch List
- ➤ Free Text—Vehicle Description
- ➤ Free Text—Partial Plate



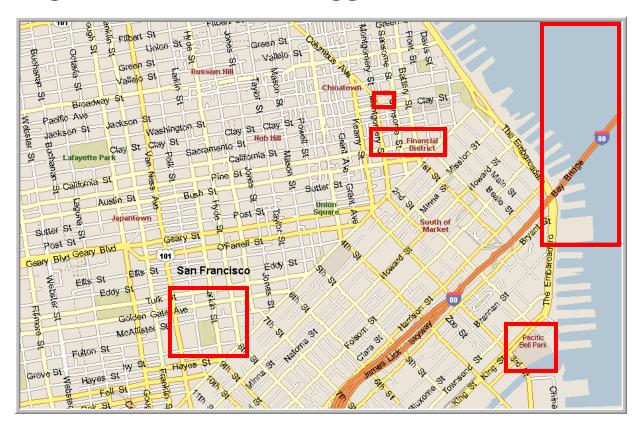
Crime Categories — Can match with Trigger definitions

Categorization developed by existing clients. The data relates to Crime Analysis Reporting under FBI Uniform Crime Reporting and other requirements. Categories and offenses will vary from client to client.





High Profile Location Triggers—San Francisco

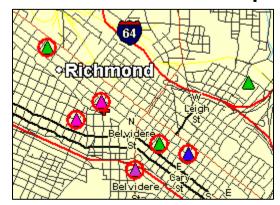


The City of San Francisco includes a number of highly recognizable landmarks known throughout the world as well as other landmarks that are integral parts of the government and economy. The Golden Gate Bridge, Trans America Pyramid, United Nations Building, Federal Courthouse and the Financial District are a few of the monitored areas. Using FirstWatch Geo-spatial Analysis, officials are able to place a geo-fence (or perimeter) around specific landmarks with the intent of being notified of significant events or activities around any of the designated landmarks or districts. This Trigger provides a situational awareness perspective to rapidly notify officials of events occurring within any of their high profile zones.



Geographic Clusters of Incidents, by Type

MapShot Geo-Clusters



Data and Report from the FirstWatch™ Internet Server

Zoom to call: 6/23/2005 5:05:56 PM: From RAA

Geo Clusters: 6/23/2005 5:05:56 PM: From RAA

Map Size:

Active/Recent Geo-Clusters

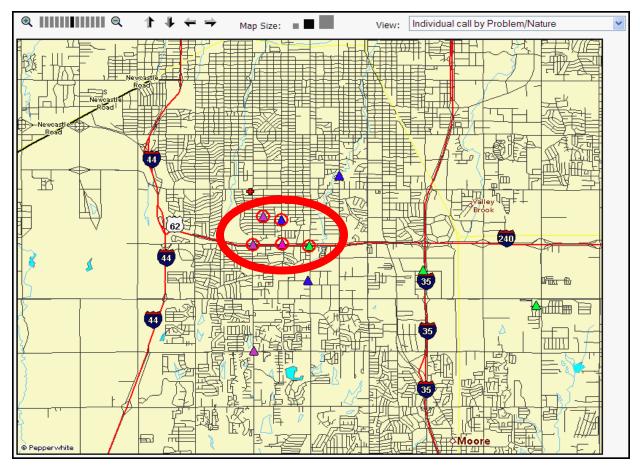
FIRSTWATCH Bioterrorism (All Regions: Count, STA, CUSUM) (Combo2) Current Call Information

Calls displayed represent active or performed calls between the hours of 6/23/2005 4:57:00 PM and 6/24/2005 4:57:00 AM Data and Report from the FirstWatchTM Internet Server

<u>GC</u>	<u>Time Sent To Queue</u>	<u>Pri</u>	<u>Problem</u>	ProQA	Response #	<u>Unit</u>	Address/Location	<u>Trans</u>
•	6/23/2005 4:53:04 PM	2	263N - Sick Person	<u>26A01</u>	0526666	484	From RAA	1
•	6/23/2005 4:57:01 PM	0	1CP-CHEST PAINS		2005-24363		From Heartland	1
<u></u>	6/23/2005 5:05:56 PM	1	311Y -	31D03	0526670	476	From RAA	1



Burglary Geo-Clusters – Des Moines



For the 2005 National Governor's Conference in Des Moines, law enforcement officials used a variety of FirstWatch Triggers to prepare for the heightened security requirements of a National Special Security Event (NSSE). During that time a rash of burglaries occurred causing a FirstWatch Geo-Cluster Trigger to alert officials. Using the geographic pattern of burglaries identified by FirstWatch (along with exceptional police work), the detectives re-arrested the culprit who was a convicted felon recently released from detention.



Police Call Response Time Trigger — Plano PD

Plano PD Call Response Times Current Call Information

Calls displayed represent active or performed calls between the hours of 3/30/2008 9:18:43 PM and 3/31/2008 1:18:43 PM.

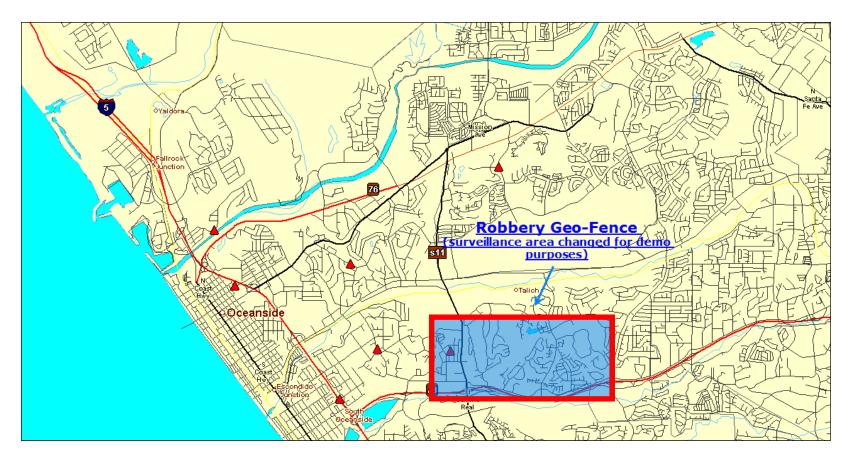
Data and Report from the FirstWatchTM Internet Server

Time Sent To Queue	Problem	Pri	Response Area	Unit	Asgn2Arr	Asgn2C	R2C	Call Disposition
3/30/2008 9:21:51 PM	Suspicious Person-P	2	Beat D5	4C	00:08:59	00:45:33	00:50:21	N9- No Report/ Compl Contacted
3/30/2008 9:21:51 PM	Suspicious Person-P	2	Beat D5	3C3	00:08:59	00:00:29	00:50:21	N9- No Report/ Compl Contacted
3/30/2008 9:21:51 PM	Suspicious Person-P	2	Beat D5	3C2	00:08:59	00:37:31	00:50:21	N9- No Report/ Compl Contacted
3/30/2008 9:22:19 PM	Traffic Stop-P	2	Beat C5	3C	00:00:00	00:10:31	00:10:31	CT - Clear Traffic Stop
3/30/2008 9:27:22 PM	Threats-P	2	Beat D5	3D6	00:16:38	00:33:48	00:42:25	N9- No Report/ Compl Contacted
3/30/2008 9:27:45 PM	Reckless Damage-P	3	Beat A4		00:00:00	00:00:00	00:02:41	N2- Duplication of Call
3/30/2008 9:27:48 PM	Traffic Accident/Prop Damage-P	3	Beat A4	3A1	00:05:46	00:38:20	00:41:39	R2- Offense Report
3/30/2008 9:27:48 PM	Traffic Accident/Prop Damage-P	3	Beat A4	3A	00:05:46	00:40:32	00:41:39	R2- Offense Report
3/30/2008 9:29:18 PM	Investigation-P	3	Beat D3	3D6	00:11:13	00:00:53	00:42:27	N9- No Report/ Compl Contacted

FirstWatch recognizes the need for tracking response times on law enforcement calls as well as EMS calls. The response time report includes calculations of the time the call is assigned to the time the officer arrives on scene, the time the call is assigned to the time the call is completed, and the time the call comes into the dispatch center to the time the call is completed. Self-initiated calls are filtered out to enable a more accurate picture for those calls dispatched.



Geo-Fence Sentinel Trigger – Oceanside Police



Oceanside Police Detectives experienced a rash of robberies, all within a particular region of the city. They asked FirstWatch if they could be notified whenever a robbery is reported within the defined hot-zone. Using FirstWatch, the task force drew a "virtual" geographic fence around the focus area and setup a Trigger to immediately and automatically notify key task force members anytime a robbery report is received from within the identified hot-zone.



Briefing Reports, by Sector — Plano PD

The Sector Triggers are presented at daily briefings or officers may log into FirstWatch and check the status of the previous 16 hours prior to shift. This enables oncoming shifts to see the activity that has occurred as well as what is in progress.

Plano PD - Sector A Calls	Status	Std Dev	5TA	CUSUH	Geo Cluster	Logged In
Plant FU Sector A Cars	OK 1	85/131	19000	25/2/2/2	Total Control of the	The State of the S
Plano PD - Sector B Calls	Status	Std Dev	STA	CUSUM	Geo Cluster	Logged In
Hally For Declar & Calls	GK S	54/106	222		4400000000	
Plang PD - Sector C Calls	Status	Std Dev	5TA	CUSUM	Geo Cluster	Logged In
EMBLE -ACCES CARRY	OK	70/107		***	300	-
Plano PD - Sector D Calls	Status	Std Dev.	STA	CUSUM	Geo Cluster	Logged In
Elements - Metal D Calle	DK	114/139	1944	1888	444	344

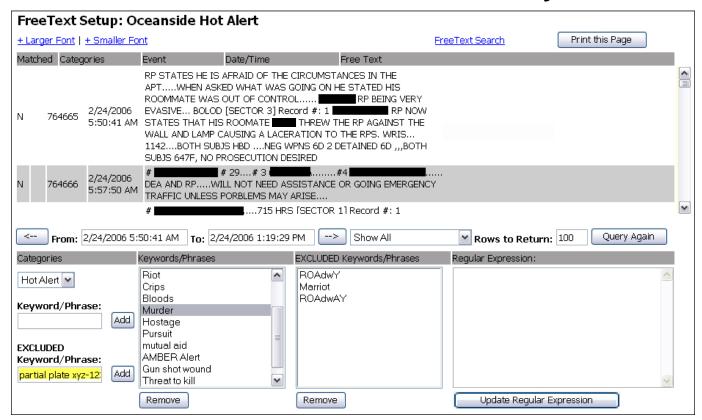
Plano PD - Sector A Calls Current Call Information

Calls displayed represent active or performed calls between the hours of 3/30/2008 8:50:34 PM and 3/31/2008 12:50:34 PM. Data and Report from the FirstWatchTM Internet Server

<u>Geo</u> <u>Valid</u>	Geo Valid Time Sent To Queue Pri		Problem	Response Area	Address/Location	Call Disposition	
1	3/30/2008 8:50:43 PM	2	Traffic Stop-P	Beat A5	96 Nancy Lane	CT - Clear Traffic Stop	
1	3/30/2008 8:57:22 PM	2	Assist Fire Department-P	Beat A1	106 Clawson Drive	N9- No Report/ Compl Contacted	
1	3/30/2008 8:57:35 PM	3	Traffic Accident/Prop Damage-P	Beat A1	210 McKeage Way	R1- Accident Report	
1	3/30/2008 9:03:14 PM	3	Investigation-P	Beat A3	86 ProQA Avenue	CI-Clear Self Init. Investig	
1	3/30/2008 9:07:11 PM	3	Runaway-P	Beat A5	213 Sharp Lane, 126, Plano	R2- Offense Report	
		Valid 3/30/2008 8:50:43 PM ✓ 3/30/2008 8:57:22 PM ✓ 3/30/2008 8:57:35 PM ✓ 3/30/2008 9:03:14 PM	Valid Inner Sent 10 Queue Ph ✓ 3/30/2008 8:50:43 PM 2 ✓ 3/30/2008 8:57:22 PM 2 ✓ 3/30/2008 8:57:35 PM 3 ✓ 3/30/2008 9:03:14 PM 3	Valid Problem ✓ 3/30/2008 8:50:43 PM 2 Traffic Stop-P ✓ 3/30/2008 8:57:22 PM 2 Assist Fire Department-P ✓ 3/30/2008 8:57:35 PM 3 Traffic Accident/Prop Damage-P ✓ 3/30/2008 9:03:14 PM 3 Investigation-P	Valid Problem Response Area ✓ 3/30/2008 8:50:43 PM 2 Traffic Stop-P Beat A5 ✓ 3/30/2008 8:57:22 PM 2 Assist Fire Department-P Beat A1 ✓ 3/30/2008 8:57:35 PM 3 Traffic Accident/Prop Damage-P Beat A1 ✓ 3/30/2008 9:03:14 PM 3 Investigation-P Beat A3	Valid Problem Response Area Address/Location ✓ 3/30/2008 8:50:43 PM 2 Traffic Stop-P Beat A5 96 Nancy Lane ✓ 3/30/2008 8:57:22 PM 2 Assist Fire Department-P Beat A1 106 Clawson Drive ✓ 3/30/2008 8:57:35 PM 3 Traffic Accident/Prop Damage-P Beat A1 210 McKeage Way ✓ 3/30/2008 9:03:14 PM 3 Investigation-P Beat A3 86 ProQA Avenue	



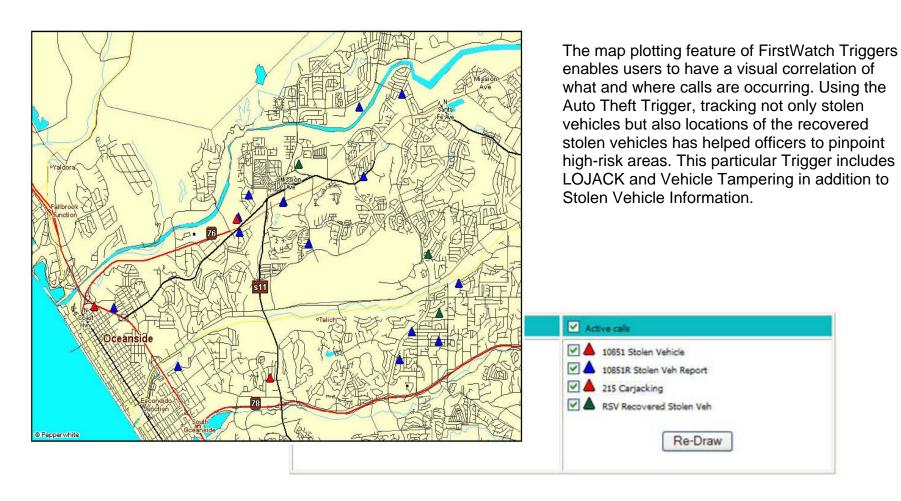
Police Hot Alert — Free Text Analysis



FirstWatch provides Oceanside crime analysts with a free-text sentinel tool to help them quickly receive alerts on key words or phrases contained in notes/comments received during the call-taking process. The text tool provides investigators with a dynamic way to target specific events and situations (on-the-fly) that are not normally classified during the initial report. Searching through notes/comments from an incident, the trigger can automatically look for information relating to gang activity, partial license plates, information on wanted vehicles, amber alerts, pursuits and more. One of the key real-time benefits of FirstWatch Free Text Trigger is that investigators can deploy or update new analysis/surveillance criteria in a matter of minutes.



Auto Theft Trigger — MapShot, Oceanside PD





Stolen Vehicle Sentinel Trigger — Oceanside PD

Oceanside Police Stolen Vehicle Current Call Information

Calls displayed represent active or performed calls between the hours of 3/25/2008 10:41:04 AM and 4/4/2008 10:41:04 AM. Data and Report from the FirstWatchTM Internet Server

<u>GC</u>	Geo Valid	Time Sent To Queue	Pri	Problem	ProQA	Incident #	Address/Location
•	1	3/26/2008 3:54:45 PM	2	10851R Stolen Veh Report		0800033859	247 NENA Bridge
•	1	3/26/2008 11:30:57 PM	2	10851R Stolen Veh Report		0800034033	275 Balestracci Park
•	1	3/27/2008 8:55:48 PM	2	10851R Stolen Veh Report		0800034396	7 Clawson Drive
•	1	3/29/2008 2:18:17 AM	1	215 Carjacking		0800034965	81 Farber Avenue
•	√	3/30/2008 1:01:33 PM	2	10851R Stolen Veh Report		0800035564	205 Clawson Stre
•	1	3/30/2008 1:19:49 PM	2	10851R Stolen Veh Report		0800035572	282 Microsoft Coi
•	✓	3/30/2008 1:48:11 PM	2	10851 Stolen Vehicle		0800035578	282 Microsoft Cou
0	✓	3/30/2008 4:02:30 PM	2	10851R Stolen Veh Report		0800035610	122 Irene Road
•	1	3/30/2008 4:59:34 PM	2	10851R Stolen Veh Report		0800035620	52 Cooper Highw
•	√	3/31/2008 12:31:06 AM	2	10851R Stolen Veh Report		0800035766	220 HiTech Highv
•	1	3/31/2008 4:07:09 AM	2	10851R Stolen Veh Report		0800035792	93 NEMA Lane
•	1	4/1/2008 3:47:33 PM	2	10851R Stolen Veh Report		0800036323	49 NENA Parkway
•	✓	4/2/2008 1:43:42 PM	2	10851 Stolen Vehicle		0800036660	192 NEMA Street
	1	3/25/2008 11:29:30 AM	2	10851 Stolen Vehicle		0800033429	199 Surveillance

Because auto theft can include other call types, analysts at Oceanside recognized the need to identify stolen vehicle type calls separately. For this particular Trigger, they are notified every time there is a stolen vehicle call. Through the alerting, other local law enforcement agencies are kept abreast of any stolen vehicle activity occurring.

Besides being notified of events, geo-fences have been established to visually represent 3 or more calls that occur within a ½ mile diameter during a surveillance period of 10 days.





Recovered Stolen Vehicle Sentinel Trigger — Oceanside PD

Oceanside Police RSV Current Call Information

Calls displayed represent active or performed calls between the hours of 3/21/2008 11:53:47 AM and 3/31/2008 11:53:47 AM.

Data and Report from the FirstWatchTM Internet Server

<u>GC</u>	Geo Valid	Time Sent To Queue	<u>Pri</u>	Problem	ProQA	Incident #	Address/Location
	?	3/21/2008 5:33:55 PM	2	RSV Recovered Stolen Veh		0800031934	211 Orbacom Street, "HOLD", VISTA
	1	3/23/2008 3:32:21 PM	2	RSV Recovered Stolen Veh		0800032786	101 Demo Street
	V	3/26/2008 12:22:07 AM	2	RSV Recovered Stolen Veh		0800033680	263 Wong Road
	1	3/28/2008 10:36:17 AM	2	RSV Recovered Stolen Veh		0800034584	15 Sharp Street
	1	3/28/2008 2:36:05 PM	2	RSV Recovered Stolen Veh		0800034656	106 Clawson Drive
	?	3/28/2008 4:33:01 PM	2	RSV Recovered Stolen Veh		0800034703	51 APCO Lane
	1	3/29/2008 3:00:10 PM	2	RSV Recovered Stolen Veh		0800035159	182 Kevin Avenue
	50.45	219V o V-					

Total Responses: 7

Because the Stolen Vehicle Trigger proved to be beneficial, Oceanside analysts took things a step further and requested a trigger dedicated to the Recovered Stolen Vehicle calls. This Trigger is setup to alert PD staff and other agencies whenever there is a recovered stolen vehicle along with the location of recovery. The Trigger includes the same geo-fence established in the Stolen Vehicle Trigger and can inform officials if there is a particular area where vehicles are being left.



Gang Related Sentinel — Oceanside PD

Incident #

0800033387

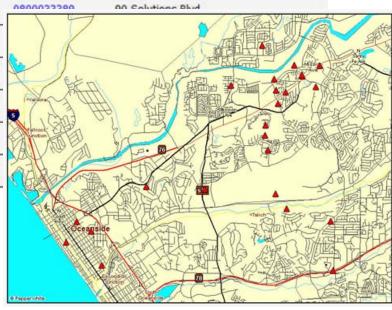
Oceanside PD - Gang Related Sentinel Current Call Information

Calls displayed represent active or performed calls between the hours of 3/25/2008 and 3/31/2008 11:59:59 PM.

Data and Report from the FirstWatchTM Internet Server

Geo Valid		Sent To Queue Pri Problem				
√	3/25/2008 7:59:26 AM	4	Tagging 594 Report			
V	3/25/2008 8:14:31 AM	4	Tagging 594 Report			
✓	3/26/2008 11:23:36 AM	4	Tagging 594 Report			
✓	3/26/2008 12:24:38 PM	5	CKAREA Check Area			
√	3/26/2008 5:06:49 PM	3	602 Trespassing			
✓	3/26/2008 5:28:31 PM	5	FYI For Your Info			
✓	3/26/2008 5:45:47 PM	4	Tagging 594 Report			

Law enforcement agencies throughout the United States deal with gang activity and have special units assigned to monitor events. Task forces at Oceanside requested a trigger specific to the monitoring of such events. This Trigger was designed to search call comments for key words and call types associated with local gangs. As is depicted in the map view, officers can visually identify areas with strong gang activity.



Address/Location

203 Academy Blvd

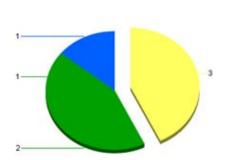


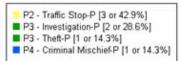
Location Type Calls — Plano PD

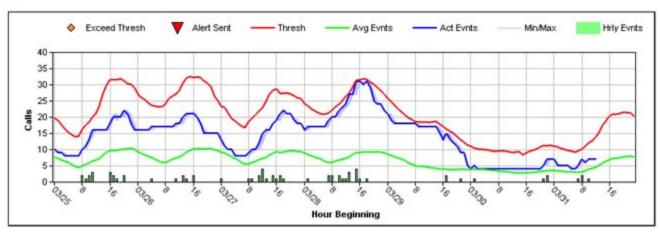
Plano PD - School Calls Current Call Information

Calls displayed represent active or performed calls between the hours of 3/30/2008 4:27:54 AM and 3/31/2008 12:27:54 PM.

Data and Report from the FirstWatchTM Internet Server







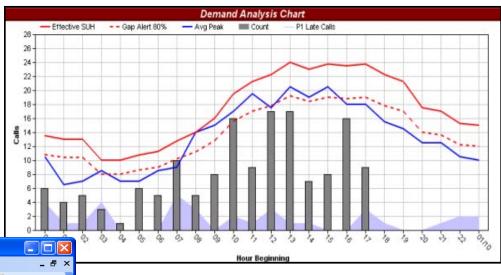
The location of call activity can be just as important as the call itself. Plano analysts requested a Trigger to be based on calls that occur at schools. The primary objective is to monitor those calls related to narcotics on school grounds. However, other types of activities can be helpful in identifying on-going issues at particular locations.

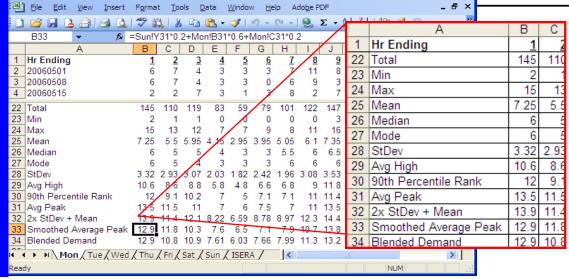


Microsoft Excel - DownloadDA-20060911125641.xls

Real Time Demand Analysis

One of the many challenges faced by agencies is making the most effective use of the resources they have available. A common way to forecast needs for staffing, scheduling and resource deployment is to analyze historical patterns of demand for service, both by day of week and hour of day and geographically. This time proven approach is referred to as "Demand Analysis." Variations of this approach have been used for more than 20 years all around the world. In the past, the process of compiling and creating a complete temporal and geographic Demand Analysis was tedious, time-consuming, and too often, very manual.





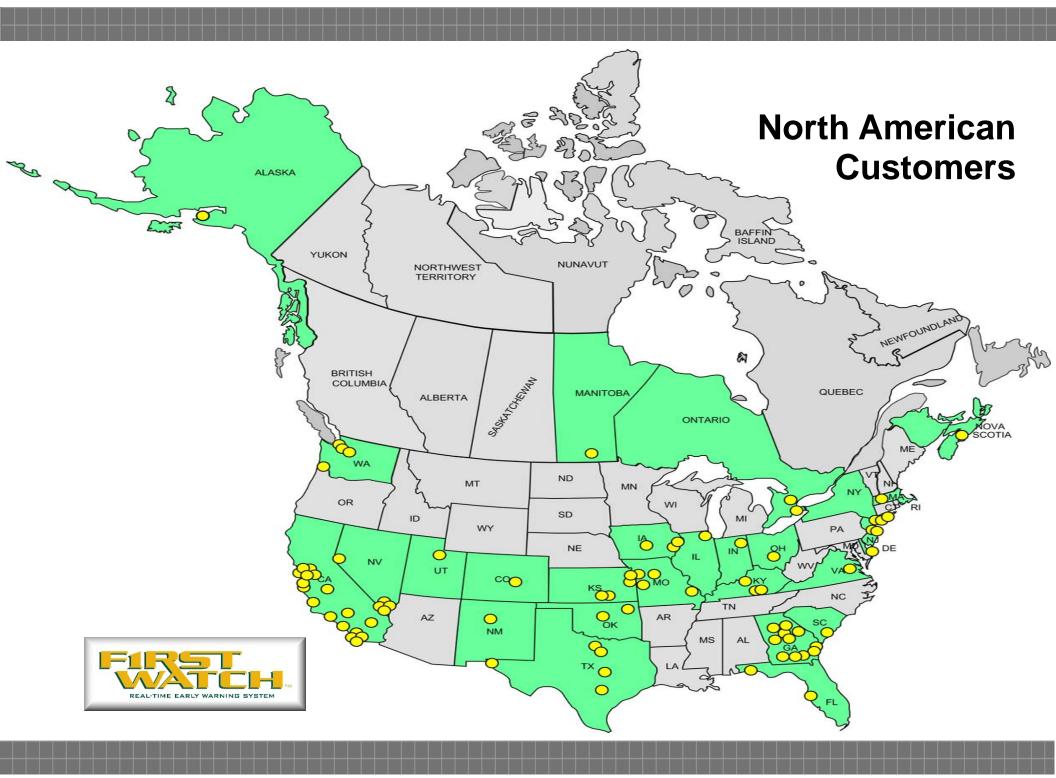
FirstWatch has created real-time, dynamically updated and calculated Demand Analysis Module which offers views of select customer data. The Demand Analysis calculations in the data can be downloaded into an Excel spreadsheet, with all formulas intact. We're working to enhance the Demand Analysis module by adding a Demand Consumption-based approach, as well as addressing geographical demands by creating up-to-the minute problem/solution maps for each hour of the day and each day of the week and/or other user-defined intervals.



Clark County (Las Vegas) EMS Transport Status Dashboard

Clark County Region A	Enroute	Arrived	Elapsed - Avg	Elapsed - Max
H1 SUMMERLIN HOSPITAL	0	О		
H11 MOUNTAIN VIEW HOSPITAL	1	O		
H4 UMC HOSPITAL	o	O		
H9 VALLEY HOSPITAL	1	o		
Clark County Region B	Enroute	Arrived	Elapsed - Avg	Elapsed - Max
H2 DESERT SPRINGS HOSPITAL	0	2	23:25	34:41
H5 NORTH VISTA HOSPITAL	1	1	58:50	58:50
H6 SUNRISE HOSPITAL	1	1	19:31	19:31
Clark County Region C	Enroute	Arrived	Elapsed - Avg	Elapsed - Max
H15 SPRING VALLEY	0	О		
H16 SOUTHERN HILLS HOSPITAL	O	O		
H7 ST ROSE - DE LIMA	1	2	25:39	27:22
H72 ST ROSE - SIENA	1	O		
Specialty Hospitals	Enroute	Arrived	Elapsed - Avg	Elapsed - Max
SUNRISE HOSPITAL - PEDS ER	0	О		
SUNRISE HOSPITAL - TRAUMA	O	O		
UMC - PEDIATRIC ER	0	2	21:18	37:14
UMC - TRAUMA	О	О		

Like many communities, public safety officials in the Las Vegas area are constantly challenged with hospital surge issues that tie up emergency units dropping off patients at local hospitals. As hospital turn-around times grow longer, emergency units are unavailable to respond to other emergencies, creating a serious problem. Using FirstWatch, Clark County EMS (CCEMS) developed a dashboard with information relating to all active patient transports in the County. The CCEMS Transport Status Dashboard pulls data from the County 9-1-1 Center, Henderson Fire Department and two private EMS providers. The dashboard lists each primary hospital, showing how many units are currently en-route to or at each facility. Additionally, the CCEMS dashboard provides the current average wait time and the maximum wait time. With the ability to view the real-time status of all area hospitals, officials are able to determine when it is appropriate to divert patients to other facilities. Result: improved care to patients, and faster turn-around times for emergency units.





For additional FirstWatch information including individual PDF's of Dashboard & Trigger examples, as well as Case Studies, Press Coverage, Informative Articles and a Map of North American FirstWatch Deployments, please visit us online at:

www.firstwatch.net

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