



Complete Weather Intelligence for Public Safety from DTN

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From flooding to tornadoes to severe winter storms, the threats to public safety from weather-related events are many, and most are increasing in intensity as earth's climate changes.

Studies show that heavy rain events have become more frequent in the last 50 years. Increased flooding has the potential to wreak havoc on the 3,800 towns and cities in the flood plain in the U.S. According to the U.S. Geological Survey, flooding costs the country more than \$7 billion in damages and kills more than 90 people each year — more lives and property damage than any other type of natural disaster.

Winter weather has been a public safety hazard and even a potential killer, especially for motorists. On average, 1,921 people are killed and 146,647 more are injured each year in accidents involving snow, slush, sleet and ice.

As risks increase — and budgets often shrink — public safety agencies need aggregated, accurate, cost-effective weather data, not

only to better inform their decisions, but also to allow them to make faster decisions based on real-time data.

The tools you need to plan, prepare, and mitigate

DTN's WeatherSentry® Public Safety Edition is designed to help emergency managers with catastrophic weather events, storm tracking, HAZMAT incidents, terrorism and flood management. You'll see weather in a layered map format for daily forecasts for the next 15 days and hourly forecasts for the immediate 36 hours. With WeatherSentry's timely, accurate information, you'll be able to create a plan ahead of storms for the impact of severe weather on your local community, keeping residents and first responders safe.

See where storms are about to hit

WeatherSentry's storm corridors show you where the severe weather is and where it's headed over the next 30 minutes. You'll also be able to drill down to see specific attributes about individual storm cells, such as large hail or tornadic activity. In addition to the storm details, storm path tracking lists the locations in the path of the storm, estimated arrival time and the number of minutes until the storm arrives. Local storm reports from local spotters or emergency management provide another indication of the severity of weather approaching your city or county.

Respond appropriately to approaching lightning

Access to real-time lightning information is critical. Internet websites don't update frequently enough — sometimes only every 10 or 15 minutes — which can provide you with a false sense of security or danger. And using the "flash-to-bang" method is unscientific and unreliable, as lightning can strike as far as 10 miles away from the parent storm.

With WeatherSentry's advanced lightning tracking technology, you can monitor lightning as it approaches your area, as

well as set up custom advisory and warning zones for your location — up to 100 miles out in the Platinum edition — for automatic alerts. No need to constantly monitor the danger — this tool does it for you.

Business-class mobile weather apps

iPhone® and Android™ users can get dynamic, location-based weather and lightning alerts for their current location. Our technology instantly delivers roaming weather information and customized notifications based on your phone's GPS. This helps you stay on top of changing conditions as you travel throughout your community.

Be ready for the heat

WeatherSentry's wet bulb globe temperature forecasts and customizable alerts help you better assess heat-related risks. Wet bulb globe temperature is a composite temperature indicator used to determine the true effect of hot weather on people. It is a more comprehensive and reliable measure of the impact on the human body than the heat index or 'feels-like factor' — which reflects just air temperature and relative humidity, and is also measured in the shade.

DTN: The choice for public safety

When the safety of the public is at stake, only the most accurate weather information is good enough. DTN's 35 years of experience has led to a temperature and precipitation forecast accuracy rated #1 for ten years straight. Our state-of-the-art weather center is staffed by 50 experienced meteorologists, who provide expert consultation to our public safety clients on a 24-hour basis. In short, no other weather services company is better qualified to partner with your agency in ensuring the safety of your community.



Wet bulb globe forecasts are available at hourly and daily intervals, along with current observations. You can even get notifications for each level of concern, as well as an all-clear alert for when conditions improve.

Stay ahead of hurricanes

Keep on top of tropical storms and hurricanes with a complete tropical weather package. Hurricane track forecasts along with other key maps — such as maximum wind speed, watches, warnings and storm surge — are at your fingertips, while the latest text bulletins from the National Hurricane Center are a click away.

Get your community ready for flooding

WeatherSentry gives you the ability to monitor the three most important parameters for potential flooding:

Tide prediction: Tide predictions are based on the gravitational force of the moon and sun acting on large bodies of water at a given time.

Water level: WeatherSentry plots water level observations from thousands of ocean buoys and river gauges alongside other high-impact weather information such as radar and local storm reports.

Wave height: When will high tide occur, and how high will the waves be? These factors have an impact on potential damage to private property and public infrastructure.

Know where heavy rainfall has occurred and better anticipate what's coming with DTN's patented PrecipTimer®. It lets you know when light, moderate, or heavy rain, ice, or snow will start and stop based on your location. Set alarms for multiple locations and use exclusive filtering to eliminate non-threatening alerts — giving you advanced warning before storms strike so you can mitigate their impact.

Deploy your own weather sensors for ultimate insight

These optional, on-site weather stations deliver sub-hourly observations, forecasts, and alerts for your exact location. You can incorporate this data into your WeatherSentry Public Safety Edition's unique tools for superior operational weather visibility, accuracy, and ease of use. Professional installation and annual maintenance are included.