CEM Risk Events Feeds Guide

Everbridge Suite

December 2024

Everbridge Suite
2024
Printed in the USA

Copyright © 2024. Everbridge, Inc, Confidential & Proprietary. All rights are reserved. All Everbridge products, as well as NC4, xMatters, Techwan, Previstar, one2many, SnapComms, Nixle, RedSky, and Connexient, are trademarks of Everbridge, Inc. in the USA and other countries. All other product or company names mentioned are the property of their respective owners. No part of this publication may be reproduced, transcribed, or transmitted, in any form or by any means, and may not be translated into any language without the express written permission of Everbridge.

Limit of Liability/Disclaimer of Warranty: Everbridge makes no representations or warranties of any kind with respect to this manual and the contents hereof and specifically disclaims any warranties, either expressed or implied, including merchantability or fitness for any particular purpose. In no event shall Everbridge or its subsidiaries be held liable for errors contained herein or any damages whatsoever in connection with or arising from the use of the product, the accompanying manual, or any related materials. Further, Everbridge reserves the right to change both this publication and the software programs to which it relates and to make changes from time to time to the content hereof with no obligation to notify any person or organization of such revisions or changes.

This document and all Everbridge technical publications and computer programs contain the proprietary confidential information of Everbridge and their possession and use are subject to the confidentiality and other restrictions set forth in the license agreement entered into between Everbridge and its licensees. No title or ownership of Everbridge software is transferred, and any use of the product and its related materials beyond the terms on the applicable license, without the express written authorization of Everbridge, is prohibited. If you are not an Everbridge licensee and the intended recipient of this document, return to Everbridge, Inc., 155 N. Lake Avenue, Pasadena, CA 91101.

Export Restrictions: The recipient agrees to comply in all respects with any governmental laws, orders, other restrictions (“Export Restrictions”) on the export or re-export of the software or related documentation imposed by the government of the United States and the country in which the authorized unit is located. The recipient shall not commit any act of omission that will result in a breach of any such export restrictions.

Everbridge, Inc.
155 N. Lake Avenue, 9th Floor
Pasadena, California 91101 USA
Toll-Free (USA/Canada) +1.888.366.4911

Visit us at www.everbridge.com

Everbridge software is covered by US Patent Nos. 6,937,147; 7,148,795; 7,567,262; 7,623,027; 7,664,233; 7,895,263; 8,068,020; 8,149,995; 8,175,224; 8,280,012; 8,417,553; 8,660,240; 8,880,583; 9,391,855. Other patents pending.

Critical Event Management (CEM) Risk Event Feeds 4
Everbridge RIMC Feeds 5
Weather 8
State and Local Government 18
Mobile Safety 19
Operator-Entered Risk 20
Custom Feeds 21
Other Feeds 22
Feed Types 28
General Risk Event Feeds 28
Weather Risk Event Feeds 31
Wildfire Risk Event Feeds 32
Hurricane Risk Event Feeds 33
Earthquake Risk Event Feeds 33
Tropical Storm Risk Event Feeds 33
Mobile Safety Risk Event Feeds 34
Operator-Entered Risk Events 34

Critical Event Management (CEM) Risk Event Feeds

Everbridge provides out-of-the-box, premium, and self-service Risk Event Feeds with different product packages and configurations for CEM Customers.

There are different types of Risk Event Feeds. Types include events like Weather, Wildfire, Hurricane, or General, like RIMC Powered by NC4. Feed type determines which categories and subcategories are used.

Everbridge RIMC Feeds

Everbridge Risk Intelligence Monitor Center (RIMC) leverages many diverse information sources to provide early warning of Risk Events at all levels, from neighborhood to international.

RIMC Powered by NC4, RIMC Advisories

The Risk Intelligence Monitoring Center combines thousands of trustworthy data sources with an experienced team of analysts to provide verified, real-time data about potentially threatening events around the world.

RIMC Powered by NC4, RIMC Advisories	
Source	Everbridge
Type	General
Additional Notes	
• **RIMC Advisories** from the RIMC are derived from thousands of trustworthy data sources and curated by an experienced team of analysts. They provide global intelligence about future and ongoing safety, security, and health risks. RIMC Advisories allow Everbridge Risk Intelligence Monitoring Center Analysts to provide ***forward-looking*** global intelligence.	

Everbridge Global Highlights and Situation Reports

Everbridge Global Highlights from the Risk Intelligence Monitoring Center provide summaries and analyses of events or conditions in a country. Each highlight includes the assessment of RIMC's professional analysts about the potential impact on travel and security.

RIMC Situation Reports from the Risk Intelligence Monitoring Center provide timely, in-depth, contextual information about events that may impact organizational strategic planning, assets, supply chain resiliency, and traveler and corporate security. These long-form reports include the latest developments of tactical and strategic importance on complex events worldwide. Situation reports may also cover complex, long-term developments around the globe such as terrorism, drug wars, piracy, and civil unrest. Also covered are significant outbreaks of infectious diseases, particularly virulent and widespread seasonal illnesses, and health-related developments.

Everbridge Global Highlights, RIMC Situation Reports	
Source	Everbridge
Type	General
Additional Notes	
Everbridge Global Highlights and Situation Reports are only alertable for the **Other Security** category.	

Weather

Weather Events (US)

The U.S. National Weather Service (NWS) issues watches, warnings, and advisories for weather hazards. The NWS issues a watch when conditions are favorable for a significant weather event to develop; it issues a warning when hazardous conditions are expected and you may have to take action, such as delaying travel, staying indoors, dressing for extreme weather, or evacuating. Visual Command Center (VCC) can also alert you to advisories, which indicate a type of weather is expected that is not severe enough to merit a warning, but which may cause significant inconvenience or make travel hazardous.

Weather Events (US)	
Source	U.S National Weather Service
Type	Weather
Additional Notes	
• Risk Events are displayed as polygons.	

Damage Threat Categories for Severe Thunderstorm Warning Segments

The National Weather Service (Weather Events US) can convey the severity and potential impacts of thunderstorm winds and hail by adding a “damage threat” tag to Severe Thunderstorm Warnings.

The three categories, in order of lowest to highest damage threat, are:

1. Base (default)
2. Considerable
3. Destructive

These tags and additional messaging are designed to promote immediate action based on the threats.

The criteria for a baseline or **Base** severe thunderstorm warning are 1.00-inch (quarter-sized) hail and/or 58 mph thunderstorm winds. This will not activate a Wireless Emergency Alert (WEA) on smartphones. When no damage threat tag is present, damage is expected to be at the base level.

The criteria for a **Considerable** damage threat are at least 1.75-inch diameter (golf ball-sized) hail and/or 70 mph thunderstorm winds. This will not activate WEA.

The criteria for a **Destructive** damage threat are at least 2.75-inch diameter (baseball-sized) hail and/or 80 mph thunderstorm winds. Warnings with this tag will automatically activate WEA on smartphones within the warned area.

Thunderstorm Damage Threat (tag category)	Wind	Hail Diameter	WEA?
Base (No tag - default)	58 mph	1.00-inch (quarter-sized)	No
Considerable	70 mph	1.75-inch (golf ball-sized)	Yes
Destructive	80 mph	2.75-inch (baseball-sized)	Yes

NOTE: Refer to the National Weather Service website for more information.

Weather Events (Europe)

The Weather Company provides weather watches, warnings, statements, and advisories in Europe which are issued by MeteoAlarm.

Weather Events (Europe)	
Aggregator	The Weather Company
Source	MeteoAlarm
Type	Weather
Additional Notes	
• To reduce duplicate alerting, Everbridge aggregates events received from The Weather Company into a single alertable event across event description, time, and distance thresholds. • Risk Events are displayed as polygons.	

Weather Events (Canada)

The Weather Company provides weather watches, warnings, statements, and advisories in Canada which are issued by Environment and Climate Change Canada.

Weather Events (Canada)	
Aggregator	The Weather Company
Source	Environment and Climate Change Canada
Type	Weather
Additional Notes	
• To reduce duplicate alerting, Everbridge aggregates events received from The Weather Company into a single alertable event across event description, time, and distance thresholds. • Risk Events are displayed as polygons.	

Weather Events (Japan)

The Weather Company provides weather watches, warnings, statements, and advisories in Japan which are issued by the Japan Meteorological Agency.

Weather Events (Japan)	
Aggregator	The Weather Company
Source	Japan Meteorological Agency
Type	Weather
Additional Notes	
• To reduce duplicate alerting, Everbridge aggregates events received from The Weather Company into a single alertable event across event description, time, and distance thresholds. • Risk events are displayed as polygons.	

Weather Events (Australia)

The Weather Company provides weather watches, warnings, statements, and advisories in Australia which are issued by the Australian Government Bureau of Meteorology. Tsunami warnings are issued by the Joint Australian Tsunami Warning Centre (JATWC) for Australian coastal locations and offshore territories.

Weather Events (Australia)	
Aggregator	The Weather Company
Source	Australian Government Bureau of Meteorology
Type	Weather
Additional Notes	
• To reduce duplicate alerting, Everbridge aggregates events received from The Weather Company into a single alertable event across event description, time and distance thresholds. • Risk Events are displayed as polygons.	

Wildfires (NIFC)

The National Interagency Fire Center (NIFC) provides information about active wildfires in the US. NIFC receives fire location and perimeter reports from federal, state, local, and non-governmental agencies involved in wildland firefighting.

Wildfires (NIFC)	
Source	National Interagency Fire Center (NIFC)
Type	Wildfire

Hurricanes (GDACS)

The Global Disaster Alert Coordination System (GDACS), a joint initiative of the United Nations and the European Union, provides information on tropical storms. Reports include an estimate of the impact based on the magnitude of each event and possible risk to the nearby population.

Hurricanes (GDACS)	
Source	Global Disaster Alert Coordination System (GDACS)
Type	Hurricane
Categories	
• Hurricane	
Wind Swaths	
• 60 km/h • 90 km/h • 120 km/h • Projected Path of Hurricane	
Additional Notes	
• The Hurricane risk event feed is alertable across wind speeds or the hurricane's projected path. • For hurricane event end date and time, CEM automatically adds 1 day to the expiration date provided by GDACS.	

Tropical Cyclones and Disturbances (NHC)

The National Hurricane Center's (NHC) mission is to save lives, mitigate property loss, and improve economic efficiency by issuing the best watches, warnings, forecasts, and analyses of hazardous tropical weather while increasing understanding of these hazards.

Tropical Cyclones and Disturbances	
Source	National Hurricane Center and Central Pacific Hurricane Center
Type	Tropical Storm
Categories	
• Tropical Storm	
Hurricane Severity Probabilities for Next 5 Days	
Minor	0-40%
Moderate	40-60%
Severe	60-90%
Extreme	90%+
Additional Notes	
• This feed provides early warnings when tropical cyclones may be developing. For each basin, it reports the location, if any, where cyclone activity is most likely. • The Tropical Storm Feed will only report a single risk event for each of the three monitored basins: Central Pacific, Eastern Pacific, and Atlantic. • As the chances of affected asset proximity are low, it is advised to set the Alert Settings or Workflows to 'Always Alert' for this Risk Event Feed.	

Earthquakes

The U.S. Geological Survey provides worldwide earthquake information. Earthquake reports include magnitude (a measure of the quake's energy). Where available, reports also include intensity, which is a measure of the quake's effects on people and structures.

Earthquakes	
Source	U.S. Geological Survey (USGS)
Type	Earthquake

Additional Notes

- Earthquake Alert Settings are aligned to magnitude rather than risk event severity: low, moderate, extreme, severe.
- CEM will alert on an earthquake when any sensor is above the alerting threshold. Sensor values may differ significantly before a consensus value is produced and reported as magnitude. Therefore, you may have an alert workflow meet the alerting threshold when the magnitude is less than the threshold.
- Reporting times from USGS depend on the size and location of the earthquake.
  - An earthquake in California is processed and posted to the system in 2.5 minutes (on average). This is because our seismic network is very extensive in California, where there are many earthquakes and many people.
  - An earthquake in the U.S. outside of California (where seismic networks are not as dense), is typically posted within 8 minutes.
  - An earthquake outside the United States, where the seismic network is sparse in some areas, takes 20 minutes (on average) to process and post. Our webpages with real-time information are cached for 60 seconds, so there might be an additional delay of up to 60 seconds for the webpage to be updated.

State and Local Government

The Everbridge Nixle service enables government agencies to send emergency messages. Agencies that use Everbridge Nixle include local police departments, county emergency management offices, and municipal governments in all 50 states.

State and Local Government	
Source	Everbridge Nixle
Type	General
Additional Notes	
• Everbridge Nixle does not currently support CEM subcategories for Alerting workflows • Some local agency risk events have significantly longer End Times associated with the risk event. These past events will be displayed in the timeline. • Risk Events are displayed as polygons.	

Mobile Safety

The Mobile Safety feed displays alerts in Visual Command Center when a Safety event, such as an SOS, is triggered from a mobile device.

Mobile Safety	
Source	Everbridge Mobile App
Type	Mobile Safety

Operator-Entered Risk

Visual Command Center users can add custom risk events through the Operator Console. This lets you capture events important to your Organization that have not been reported by the data sources supplied with VCC.

Operator-Entered Risk	
Source	Manual entry from VCC Operator Console
Type	Operator-Entered Risk

Custom Feeds

Self-Service Risk Events

In addition to the many Risk Event Feeds that Everbridge offers, Self-Service Risk Events provide the ability to send your exclusive risk data or data from a third party to your Everbridge Organization using a RESTful API.

Self-Service Risk Events	
Documentation	CEM Self-Service Risk Events
Type	General, Weather, or Wildfire
Additional Notes	
• Purchase Required	

Other Feeds

Signal

Signal is an open-source intelligence-gathering solution for organizations with distributed workforces, regulatory compliance requirements and that care about employee safety, cyber security, and intellectual property. Signal enables organizations to gain situational awareness from a variety of data sources including social media, the dark web, and the deep web.

Signal	
Source	Signal
Type	General
Additional Notes	
• Signal purchase required. • 'Always Alert' is not supported for this Risk Event Feed.	

Dataminr

Dataminr's platform detects signals of high-impact events and emerging risks from within publicly available data.

Dataminr	
Source	Dataminr
Type	General
Severity Mappings	
Everbridge CEM	**Dataminr**
• Severe	• Flash - Top Priority
• Moderate	• Urgent - Higher Priority
• Low	• Alert - Lower Priority
Additional Notes	
• Requires Dataminr purchase. • 'Always Alert' is not supported for this Risk Event Feed. • Dataminr events are only visible at a zoom of 200 miles or less in Visual Command Center.	

SAMdesk

SAMdesk is a global disruption monitoring platform powered by big data and artificial intelligence. SAMdesk is available through Risk Event Self-Service.

Samdesk	
Source	Samdesk
Type	General
Additional Notes	
• Samdesk purchase required. • SAMdesk category mappings can be configured from the SAMdesk service: **Settings** > **Account** > **Everbridge**.	

International SOS

International SOS monitors and reports on a host of international risk factors, including civil unrest in the form of protests, demonstrations, strikes, and curfews; terrorist threats; transportation issues such as airport closures, fuel shortages, strikes, and disruptions due to major accidents or security procedures associated with public events; natural disasters; and medical risks and outbreaks of well-known and emerging diseases.

International SOS	
Source	International SOS
Type	General
Additional Notes	
• International SOS purchase required.	

MitKat

Through the strategic deployment of embedded analysts within the Indian landscape, MitKat Advisory Services delivers near real-time, curated reporting of events in India.

MitKat	
Source	MitKat Advisory Services
Type	General
Additional Notes	
Purchase Required	

Factal

Discovers emerging and high-risk events ahead of major media reports. Powered by a hybrid of AI and experienced journalists, Factal detects early signals, filters out the noise, and verifies the facts at the speed of social media.

Source	Type
Factal	General
Additional Notes	
Purchase Required	

Feed Types

General Risk Event Feeds

Severities	
• Unknown • Minor • Moderate • Severe • Extreme	
Categories	
Civil Unrest	• Armed Clash • Aviation Worker Strike • Cargo Transportation Strike • Civil Demonstration • Civil Rioting • Civil Service Strike • Energy Sector Strike • General Civil Unrest • General Strike • Industrial Strike • Medical Services Strike • Mine Workers Strike • Planned Strike • Port Strike • Public Transportation Strike
Conflict/War	• Coup • General Armed Conflict • General Conflict/War • Military Operation
Crime	• Bank Robbery • Disturbance • General Violent Crime • Hostage • Office-Involved Shooting • Police/Security Forces Response • Robbery • School Lockdown • Shooting • Stabbing
Hazmat/Fire	• Natural Gas Leak • Fumes

	• Chemical Spill • Oil Spill • Fuel Spill • Explosive Materials • Structure Fire • Industrial Fire • Maritime Fire • Train Fire • Vehicle Fire • Electric Fire • Brush Fire • Biohazard • Unknown Substance • Emergency Response • Radioactive Agent • Non-Residential Fire • Wildfire • General HAZMAT/Fires • Chemical Agent
Health/Disease	• Air Quality • Quarantine • Public Health Advisory • Food Advisory • Disease Outbreak • General Health/Disease
Local Disaster	• Building Collapse • Dam Collapse • Mine Incident • Partial Collapse • Structure Collapse • Tunnel Collapse • Unsafe Structure • State of Emergency • Evacuation • General Local Disasters • Avalanche • Landslide • Subsidence • General Local Disaster
Natural Disaster	• Atmospheric/Space • Earthquake • Tropical Cyclone/Hurricane • Tsunami • Volcano

	• General Natural Disaster
Other Security	• Stampede • Homeland Security Advisory • Public Safety Advisory • Cyberattack • Curfew • General Security
Weather	• Flood • Tornado • Winter • Storm
Terrorism/Suspicious Activity	• Bomb Threat • Insurgent Attack • Terrorist Attack • Bioterrorism • Chemical Terrorism • Radiological • Nuclear Device • Terrorism Advisory • Bomb Detected • Bomb Explosion • Suspicious Activity • Suspicious Object • General Terrorism
Transportation	• Bridge Collapse • Travel Advisory • Border Closure • Port Closure • Public Transportation Disruption • Roadway Closure • Train Derailment • Waterway Closure • Air Travel Delay • Aircraft Fire • Aircraft Incident • Airport Closure • Airspace Restriction • Emergency Landing • Helicopter Crash • Plane Crash • Airliner Crash • Supply Chain Disruption • Air Accident • Flight Disruption

	• Marine Disruption • Rail Accident • Vehicle Accident • General Transportation
Utility/Infrastructure	• Boil Water Advisory • Fuel Disruption • Network Outage • Production Stoppage • Rolling Blackout • Water Main Break • Drinking Water • Gas Outage • Power • Sewage • Telecommunications • General Utility/Infrastructure

Weather Risk Event Feeds

Severities	
• Unknown • Minor • Moderate • Severe • Extreme	
Categories	**Subcategories**
Air Quality	• Ashfall • Dust Storm • Dense Fog/Smoke • Blowing Dust • Other Air Quality Alert
Flood	• Areal Floods • Coastal Floods • Flash Floods • Hydrologic Outlook • Lakeshore Floods • Flood • Tsunamis • Storm Surges
Frost & Freeze	• Extreme Cold • Frost • Freeze

	• Freezing Fog • Hard Freeze
Heat	• Excessive Heat • Fire Weather • Heat
Marine & Coastal	• Debris Flow • Freezing Rain • Low Water • Marine Hazards • Coastal Floods • Hazardous Seas and High Surf • Hazardous Winds and Gales • Small Craft Hazards
Weather	• General
Thunderstorm	• Severe Thunderstorm • Flash Floods
Tornado	• Tornado
Tropical Storm	• Hurricane • Hurricane/Typhoon • Tropical Storm
Wind	• Wind • High Wind • Destructive Wind • Extreme Wind • Lake Wind
Winter Weather	• Winter Weather • Avalanche • Blizzard • Extreme Cold • Freezing Rain • Ice Storm • Lake Effect Snow • Snow Squall • Wind Chill • Winter Storm

Wildfire Risk Event Feeds

Severities
• Unknown • Minor • Moderate

• Severe • Extreme

Categories	Subcategories
• Wildfire	• N/A

Hurricane Risk Event Feeds

Severities
• Unknown • Minor • Moderate • Severe • Extreme

Categories	Subcategories
• Hurricane	• N/A
Additional Alerting Properties	
• 60 km/h • 90 km/h • 120 km/h • Projected path of the hurricane	

Earthquake Risk Event Feeds

Severities
• Unknown • Minor • Moderate • Severe • Extreme

Categories	Subcategories
• Earthquake	• N/A
Additional Alerting Properties	
• Magnitude	1-10

Tropical Storm Risk Event Feeds

Severities
• Unknown • Minor • Moderate

- Severe
- Extreme

Categories	Subcategories
• Tropical Storm	• N/A

Mobile Safety Risk Event Feeds

Severities
• Unknown • Minor • Moderate • Severe • Extreme
Categories Only
• Mobile Safety

Operator-Entered Risk Events

Severities
• Unknown • Minor • Moderate • Severe • Extreme
Categories Only
• Civil Unrest • Conflict/War • Crime • Hazmat/Fire • Health/Disease • Hurricane • Local Disaster • Natural Disaster • Other Security • Weather • Terrorism/Suspicious Activity • Transportation • Utility/Infrastructure • Wildfires