

CAE Integrated Emergency Management System

Emergency preparedness, response and crisis management have become priorities for governments at all levels. Recent emergency situations have demonstrated the need and importance for coordinating the response efforts through effective collaboration between agencies.

The Solution

CAE is leveraging its expertise in modeling and simulation to offer leading-edge solutions to support the first response and emergency management communities in multi-agency collaboration. CAE's Integrated Emergency Management System (IEMS) can support organizations through all phases of the Emergency Management Response Cycle by providing a multi-agency platform and the ability to maintain situation awareness and manage a coordinated response effort.

Open and Flexible Architecture

CAE's IEMS solution is based on a Service-Oriented Architecture (SOA) that facilitates the interoperability of various commercial applications into an integrated set of user focused functional tools. CAE leverages SOAs to provide users increased functionality, while increasing scalability and reducing support and maintenance costs.

Controlled Access

System security is of vital importance when working in a multi-agency collaborative environment. CAE's IEMS solution includes a Single-Sign-On and Identity Management (SSO/IdM) service as part of the system's security platform. This functionality allows users to sign-on through a portal where their credentials are subsequently verified. Once the user logs on, the portal will limit the display of applications and services in accordance with the user's access privileges. Other applications and services which are resident in the IEMS solution but where the user is not authorized to access are not available, and the user is not aware of their existence.

Joint Multi-Agency Common Picture

The Multi-Agency Situational Awareness System (MASAS) is being integrated as a sub-system of the IEMS. This technology provides geo-referenced real-time data feeds from different sources of public information and allows each agency to seamlessly share and publish information to partner agencies. This ensures a common picture of incidents and eliminates the lag and confusion of situation reporting to other organizations. In collaboration with Defence Research and Development Canada Centre for Security Sciences, CAE worked with the Government of Canada's Public Safety Department to develop the high level architecture of MASAS.



Emergency Management Response Cycle



Key Benefits

Agencies will benefit from the following CAE IEMS functionalities:

- Notification to staff during an emergency
- Emergency alerting
- Situation awareness for responders and coordinators through Geographic Information System (GIS) connectivity
- Accessibility of contact information for responders and support agencies
- Tracking of event logs, daily activity logs and records of decisions
- Customizable reporting
- Task assignment, tracking and follow-up



Program Highlight

In 2011 CAE was awarded a contract by the Province of Ontario (Canada) for the design and implementation of the Integrated Emergency Management System (IEMS). The IEMS is deployed at the primary Emergency Operations Centre (EOC) in Toronto, with access provided to all provincial government agencies and Emergency Management Ontario (EMO) units through the EOC's IT infrastructure.

Your Trusted Partner

CAE has the expertise and systematic processes to partner with customers and their stakeholders in order to define their specific needs and offer a customized turn-key solution to design, deploy and support a fully integrated emergency management coordination capability.

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