



Case Study

ACT Emergency Services Agency

Live incident mapping for ACT Emergency Services Agency

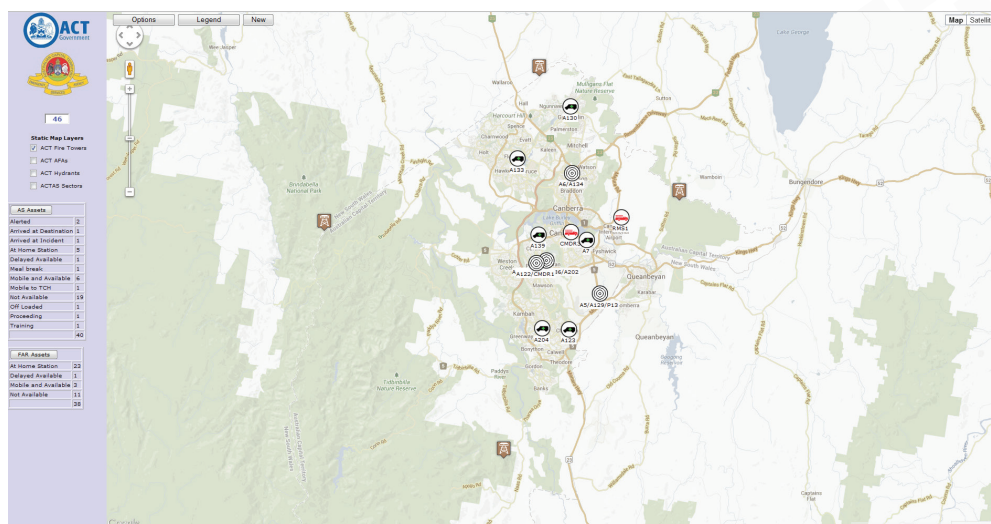
About ACT Emergency Services Agency

The ACT Emergency Services Agency (ESA) is a state government organisation, which provides emergency management services. It comprises of the ACT Ambulance Service, Fire and Rescue Service, Rural Fire Service (RFS), State Emergency Service (ESA) and ESA Support Services. Due to the serious nature of its decisions, ESA needs to keep well-informed by having constant access to real-time, accurate and relevant data presented in a meaningful manner.

Overview

ESA required a methodology to pull useable incident information from its corporate databases into a web-based mapping system. They needed a workflow to extract data and transform a subset of incidents and relevant attribution into web useable files. These files, which were to be created every minute, then needed to be ingested into a web mapping portal.

1Spatial developed a fully functional prototype of the website that handled information for all of ESA and also Internal Mashups for each of the individual ESA services, so that they could also display only their relevant incident types.



ESA internal Common Operating Picture website combining incidents, assets and environmental data.

Challenge

ESA utilises a constantly updated database, which stores incidents collected from different services such as the Rural Fire Service, State Emergency Service and Ambulance Service. In addition to the challenges that this live feed of data presented, they also needed to consider the following:

- ▶ Individual service departments required access to different incident types with certain attribution
- ▶ Only a segment of the recorded information was able to be presented to the public.

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The solution

Data Creation

1Spatial created multiple workflows via Safe Software's FME Server that:

- ▶ Extracts Oracle incident, vehicle, crew and asset data
- ▶ Transforms the non-spatial data into useable, relevant KML, GeoJSON and GeoRSS files
- ▶ Executes automatically every minute.

Data Presentation

A subset of this data is provided to the public, via an Incident Map website presented in Google Maps. In order to be able to provide meaningful information to each stakeholder, multiple internal webpages were also created.

Audit and Cleansing

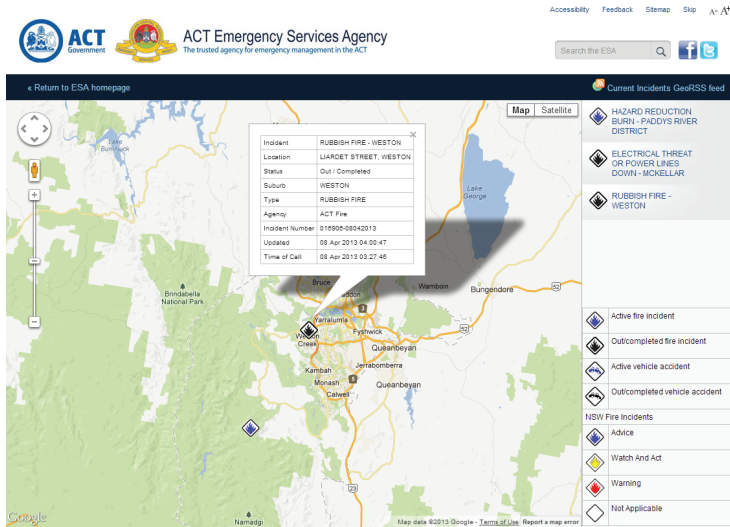
1Spatial provided a system-wide audit and cleansing of the FME workflows. In conjunction with this, active workflows were also documented and aligned with best practices.

“ 1Spatial has demonstrated a vast wealth of professionalism and reliability in the way they have continuously supported our Incident Mapping System with rapid response times and competent consultants. ”

Steve Forbes, Manager Spatial Services, ACT Emergency Services Agency

Future

ESA use the developed architecture and feeds in emergency situations every day, assisting them to make faster and more effective decisions. 1Spatial provides ongoing support to ESA to maintain these services.



ESA live website feeding incident and emergency information by FME Server:
<http://esa.act.gov.au/community-information/incidents-map/>

Key benefits:

- ▶ Real-time access to the data
- ▶ Accessible from anywhere
- ▶ 100% automated - less human error
- ▶ Enables fast, informed, effective decisions
- ▶ Performs automated validation
- ▶ Filters stored data to relevant agencies
- ▶ Utilises existing hardware and software
- ▶ Uses a user-friendly interface (Google Maps).

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