THE NEED

Access Midstream Corporate Security

- 24/7 Security Operations Center
- Tasked with ensuring employee, contractor and operations safety across 9 states and 13 field offices
- Currently using multiple programs to monitor weather threats, crime data, video surveillance and fleet vehicle locations

Difficult to get the big picture in one place

Asset locations and employee addresses not incorporated into monitoring applications outside Access’ firewall
SCENARIOS

- **Severe Weather Threats**
  - Asset locations, weather alerts and radar can be used to alert employees of severe weather
  - Pin point what assets may have damage from severe weather
  - Tornado damage swaths can help identify employees and assets that might have been impacted by tornados or other natural disasters
  - Data feed available from Weather Decision Technologies (WDT)

- **Fleet Vehicle Locations**
  - GeoFences can be used to alert Corporate Security when employees leave a designated area or enter dangerous areas
We began identifying the software we already had and additional licensed software platforms that would meet Corporate Security’s needs.

Operations Dashboard

- Good solution for situational awareness
- Connects with GeoEvent Processor to get more up-to-date data
- Allows for managing security more easily using groups
- Comes and integrates with Portal for ArcGIS
TECHNICAL REQUIREMENTS

- **10.2.1 Portal for ArcGIS**
  - Operations Dashboard app (auto-install)

- **10.2.1 Web Adapter**

- **ArcGIS Server 10.1**

- **Portal:** 1 server, 4 cores, 8 GB RAM
  - Had to be sure the server could handle the load

- **ArcGIS Server:** 4 servers, 4 cores each, 8 GB RAM each
To create the Operations Dashboard

- Create and configure the mxd(s)
- Publish services to ArcGIS Server
- Configure GeoEvent services (if required)
- Create the map(s) in Portal
- Share the map(s) to a private group
- Configure operations dashboard to consume the map(s)
- Configure the operations dashboard widgets (legend, map window, lists, inset map)
- Share final operations dashboard with the private group that will use the application
OPERATIONS DASHBOARD
PORTAL FOR ARCGIS CHALLENGES

- Currently no solution for searching internal data layers in services (scheduled for a Q1 release)
- No solution for promoting from one environment to another
  - Dev→Test→Production
- To bring in layers from services, they must be broken out into individual layers and then added to the map
- Cannot handle complex symbology
- Difficult to work with disparate datasets
- New product with a learning curve for technical staff
LESSONS LEARNED

- Involve data vendors as early as possible in the process of building your maps in Portal
  - Telogis vehicle monitoring solution integration requires coding and information from the company’s developers
  - Weather Decision Technologies
  - Esri has many use cases and experience to contribute

- Perform all work in production environment to avoid re-creating the maps and dashboard each time a change is made

- Our server setup requires separate Portal licenses for each environment
  - Planning for number of licenses for Dev, Test and Prod
RESULTS

- Corporate Security has a solution to bring data from various vendors and in-house GIS data together in one view
- Pinpoint which employees and assets have been impacted by severe weather
- Have first responder info readily available for all operational areas
NEXT STEPS

- **Phase 2**
  - Integration with Telogis – vehicle tracking
  - Chat functionality – communicate with other people who are using the operations dashboard
  - GeoFences – set up a GeoFence around a tornado warning and we get notified when an employee drives into that area
  - Traffic Feed

- **Phase 3 – further down the line**
  - Add incident tracking
  - Video feeds
QUESTIONS AND CONTACTS

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