GEOGRAPHIC INFORMATION SYSTEM TECHNOLOGY

FLEX

Geographic Information System (GIS) technology is a key component to Spillman Flex's Integrated Hub, the centralized database at the core of every Flex™ public safety system. It allows public safety agencies to conveniently capture addresses and plot jurisdictional data. With Flex's GIS offerings, agency personnel can quickly and accurately identify correct addresses, detect duplicate calls, map address points, and conduct location-based searches.
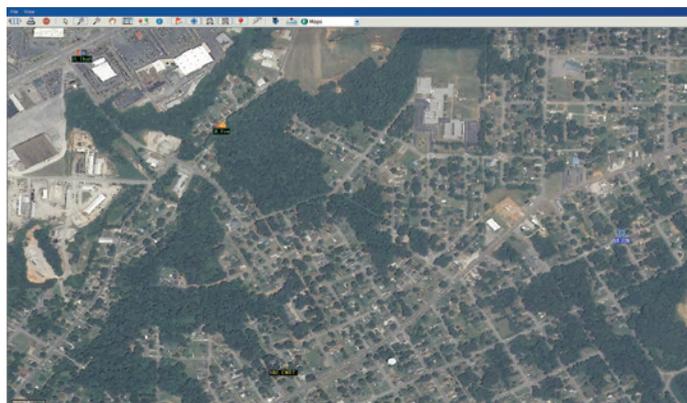
EFFICIENT ADDRESSING AND MAPPING

Motorola Solutions leverages a direct connection to an Esri ArcGIS server, eliminating the need to load map data into the Flex database. For users of Flex GeoValidation, address validation and visual map services are served out from a centrally managed source, which creates a more efficient process by allowing GIS professionals to perform their work using the most common tools in the industry. In addition, maintenance tasks can be automated through ArcGIS modeling and scripting.

> When supplied with accurate data from the agency, Flex's GIS can improve an agency's incident response time by minimizing the guesswork and enabling officers to respond faster to the correct location.

COMPLETE CAD INTEGRATION

GIS technology is integrated into Flex's Computer-Aided Dispatch (CAD) and CAD Mapping modules, each sold separately. All associated alerts, hazards, names, and previous calls at a particular address are immediately available once personnel enter an address into a Flex CAD screen. The system also identifies any active nearby calls that may be duplicates. Flex's GIS assigns a call to the proper zone and automatically routes it to the correct dispatcher. The names of the nearest cross streets

to the address are also displayed. For example, the cross streets for 175 Jefferson Avenue would display as, "Between: First Street and Second Street." Using Flex's CAD Mapping module, dispatchers can view calls and police units on a jurisdictional map and easily dispatch the unit closest to the call location.

QUICK CALL DISPATCHING

When agencies input accurate location information in Flex's GIS software, they can improve response times by eliminating the need to guess about the exact location a call is coming from. Using GIS technology, personnel can see all possible address locations related to a call on a map. The addresses are color-coded according to accuracy, making it easy for personnel to see which option is best. In addition, alerts notify dispatchers of duplicate calls, reducing the possibility of dispatching the same incident twice.
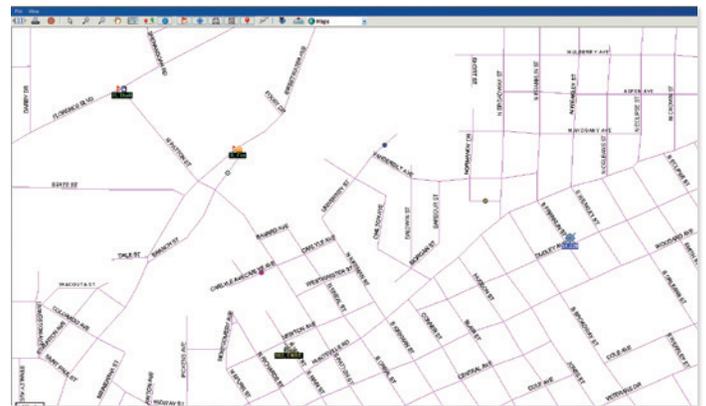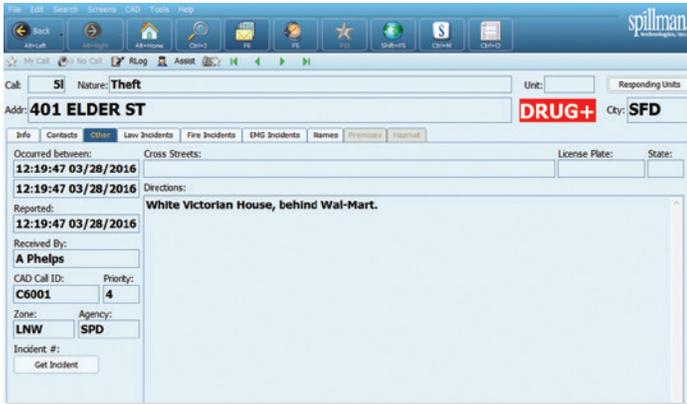

Easily view possible addresses and their designated color codes on a map.

SAFE INCIDENT RESPONSE

Flex's GIS software offers automatic notifications on warrants, alerts, and past criminal incidents associated with a particular address, increasing officer safety by giving officers a better idea of what situations they may encounter while responding to a call. Address alerts appear in red, indicating details about a previous incident at the given address. If the address has multiple alerts, a plus sign (+) appears at the end of the alert.


Use icons to see at a glance what type of incidents the jurisdiction is responding to and which units have been sent to the call.

FLEX

Supply responding officers with previous incident information by assigning alerts to an address.

ADDRESS INFORMATION SCREEN

GIS technology enables agency personnel to easily retrieve information about an address. Personnel can quickly reference cross streets as well as the law, fire, and EMS dispatch zones the address is located in. Flex's GIS software allows personnel to navigate through data attached to specific addresses in the Flex system, such as associated names, calls, alerts, and other addresses.
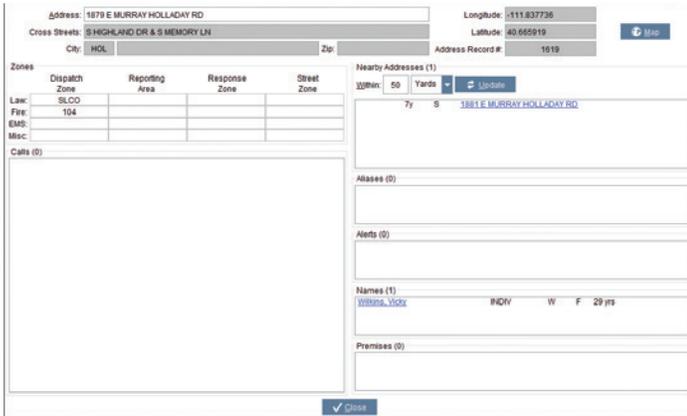

Use the Address Information Screen to find nearby addresses, cross streets, dispatch zones, and a history of past incidents at an address.

COMMON PLACE ADDRESS NAMES

By defining Common Place names, agency personnel can enter location names instead of exact street addresses. For example, if "Brookside Elementary School" is defined as a Common Place, personnel can enter "Brookside Elementary School" instead of its street address.

ADDRESS SELECTION

GIS technology takes a scientific approach to finding the correct address. The Address Selection screen scores each address candidate according to how closely it matches the address entered, allowing personnel to quickly decide which option is best. Address candidates are color-coded by matched score, and personnel can view each one on a map.
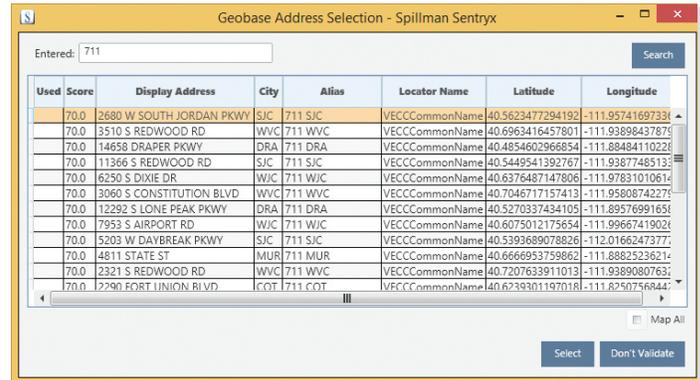
Flex's GIS software displays a list of possible correct addresses, color-coded and scored according to their accuracy.

> If an exact address match is found, Flex's GIS software will automatically select the address.

POWERFUL SEARCHING

After an agency has entered data into its system, Flex's GIS technology allows agency personnel to find an address using a variety of search criteria. Even without knowing the exact address, personnel can find a location by entering the coordinates, an intersection name, or a common place name into the Flex system. A color-coding system allows personnel to quickly identify the closest matches.

REVERSE GEOCODING

Geographic coordinates can also be used to find an address. Reverse geocoding will locate nearby addresses and display both the coordinates and addresses on a map. When agency personnel enter coordinates, the software performs a search and displays a list of matching addresses. Personnel can search multiple map layers, including common places such as parks and bodies of water, address points, parcels of land, and streets.

Note: Flex's GIS software is an additional purchase for Spillman Flex customers purchasing Sentryx Geobase or Flex GeoValidation.

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