

# Software Solutions for First Responders

## CUSTOM APPLICATIONS



Systems Definition, Inc. (SDI) develops high-utility custom software applications for First Responder clients. Our web, desktop, and mixed-platform applications provide solutions for unique First Responder needs that are not met by out-of-the-box software. SDI's easy-to-use applications support important department accountability and safety objectives with the following benefits:

- Automated/streamlined processes
- Increased productivity
- Reduced costs

One major focus is digitizing existing information captured in hardcopy paper reports and faxes or on whiteboards and chalkboards. SDI's applications allow a department to unlock the power of its collected data by ensuring that important data is available to the right people at the right time. For example, our automated department ride lists ensure that Officers and Chiefs are aware of department staffing profiles.

SDI's second major focus is building applications that perform complex functions but are simple and logical to use. Our software mimics existing forms and processes to facilitate ease of use and relieve the burden on department personnel.

Our third major focus is applying captured data to maximize its value. For example, SDI developed the Mayday/Rollcall Application (MRA) to aggregate captured identification data for fireground safety and accountability that equates department Unit and Position ID to Personnel and Radio identification information.

SDI builds applications that meet existing, specific department requirements and that are scalable and flexible to meet future needs. For many applications depending on project requirements, we deliver the executable software application along with source code and design information. This eliminates vendor lock-in and enables customers to maintain and upgrade applications.

Our applications are never outsourced—SDI builds software in Virginia using an experienced team of software engineers who work with department personnel to efficiently and effectively design and build applications to specification. We are receptive to customer input throughout development and testing, deliver applications that consistently exceed expectations, and are available for assistance after software is deployed.

"We're going from a manual system that depended on the person being able to say, 'Mayday, mayday, mayday,' and giving their locations, to now being able to know who transmitted that mayday signal because it will come up on our laptop...It is a huge change in the way we account for people that are in trouble."

- Former FDNY commissioner  
Salvatore J. Cassano on SDI's MRA in  
*The New York Times*

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## SDI Delivered Applications

SDI develops custom software applications to assist and streamline safety, accountability, and equipment management activities. SDI delivers applications spanning emergency alert/rollcall management, RFID tracking, tour roster/ride lists, radio/spare radio tracking, SCBA/mask tracking, and fireground evidence tracking. Our software engineers work with First Responder personnel to characterize problem areas and build solutions, automating procedures to save time and improve accountability during critical incidents. The applications below are examples of SDI's custom software applications.



### Electronic BF-4 Application

SDI's Electronic BF-4 (EBF-4) application is used city-wide by FDNY Chiefs and Officers for each of the two daily tours (9X and 6X) to schedule personnel and to provide reporting of personnel assigned to each tour. This application replaces paper-based ride list forms, provides easy-to-use functions accessible on the FDNY intranet, and provides personnel and radio data used by the Electronic Fireground Accountability System (EFAS) and SDI's RFID, Handie-Talkie, and Spare Mask applications.



### EasyStaff™

SDI's EasyStaff software allows fire department Chiefs and Officers to quickly and easily fill out tour rosters, ensuring accurate firefighter staffing data to support safety and accountability efforts. This application requires minimal resources and has eliminated clunky paper-based forms. Paired with SDI's Mayday/Rollcall Application, EasyStaff™ enables a robust, comprehensive approach for fireground accountability.



### Mayday/Rollcall Application

SDI's Mayday/Rollcall Application (MRA) enables rapid handling of emergency alerts and streamlines incident rollcalls. This application significantly reduces the time required to conduct personnel rollcalls on the fireground and displays this information in a simple, easy-to-read format. SDI is partnering with Motorola to use the latest, most advanced version of MRA with the new line of Motorola APX radios.



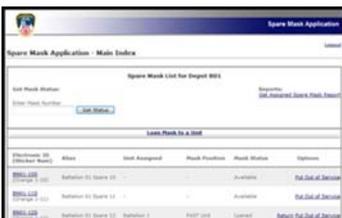
### RFID Application and Database

SDI's RFID in-vehicle application displays ride lists and allows departments to accurately detect and identify personnel working tours. SDI's back-end web application and database ingests and aggregates RFID data with incident and personnel data to provide incident timelines and to allow departments to search for personnel by unit, incident, or name.



### Handie Talkie Application

SDI's web-based Handie Talkie Application provides streamlined accountability of all spare and regular assigned radios in the field, allowing fire department Chiefs and Officers to maintain accurate radio identification information, save time in critical situations, and eliminate paper-based forms.



### Spare Mask Application

SDI's Spare Mask Application (SMA) is similar to the Handie Talkie Application. The SMA accounts for all spare Self-Contained Breathing Apparatuses (SCBAs) and identifies SCBA resources currently in operational use, spare SCBAs, and out-of-service SCBAs in near real time.