# Borders and Maritime Security:

# A Comprehensive Identification and Awareness Platform
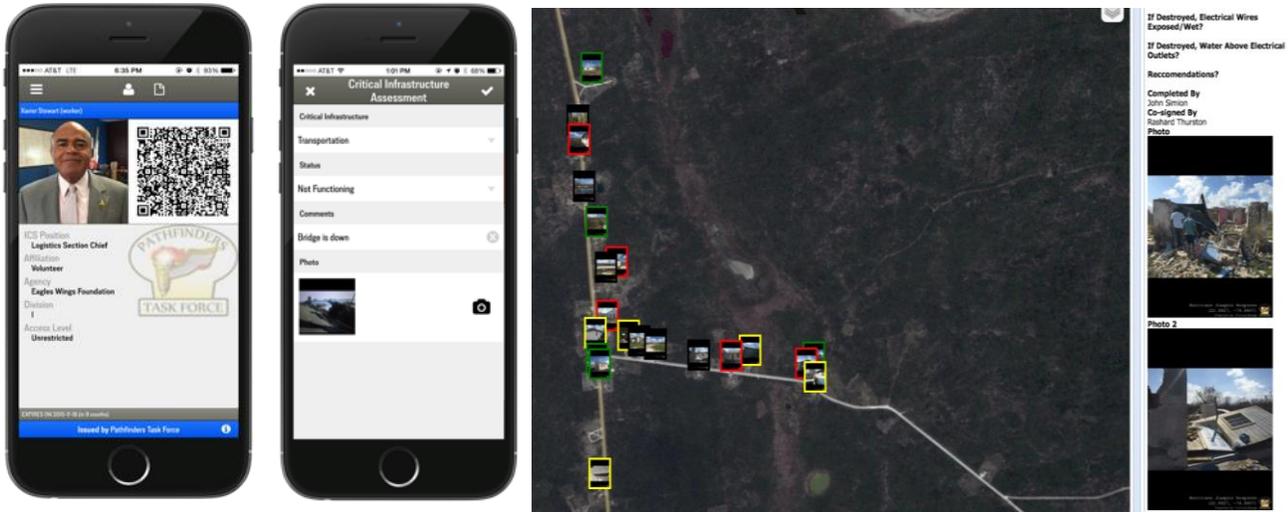
**About:**

Disaster Solutions, LLC (DS) is a HUBZone certified small business located in Florida and specializing in disaster response consulting services and disaster response software development. DS has seven approved US Patents which enforce intellectual property protection for a variety of disaster software scenarios. DS has completed a FedRAMP-Moderate Pre-assessment audit by an authorized Federal third party assessor and currently has two Cooperative Research and Development Agreements with the Federal Government.  DS also has a valid 5-year GSA Schedule 84 contract.

Virtual Badge is a software platform that leverages the power of smartphones and tablets to provide increased business intelligence for mobile operations.  Virtual Badge turns smartphones into full-functioning badges, which also double as a workforce management platform.  Agents in the field can verify identities electronically, collect data based on standardized form templates, and, optionally be GPS tracked.  This data is available in a web-based Control Center for analysis and administration. In the hands of Customs and Border patrol, this platform will amplify agency wide security of access, operational awareness, coordination, communication, efficiency, accountability and analysis.

**Secure, Customizable Badging for Border Protection Agents**

U.S. border protection agencies employ tens of thousands of officers, agriculture specialists, border patrol agents, air and marine interdiction agents, and aviation enforcement officers, all of whom must be identifiable. Tamper proof QR encryption of badges ensures that acting agents are the very same individuals vetted by the screening process. Phone to phone camera scans of badges allows other agents to verify identities in the field, while unreliable and uncontrolled personnel can have badges remotely revoked. Customizing identities from the control center allows for flexibility in field; agents can be reassigned to different teams, new access levels or temporary roles without having to obtain new hard badges. IDs for assets, vehicles, and canine and equine officers can be created, printed out and scanned to reliably document and track asset use. An ID repository of border violators, aided with facial recognition plug-ins, can facilitate the processing of criminals, suspicious persons and foreign nationals.

## GPS Tracking of Agents

Location monitoring of agents increases both accountability and security for the agency. As each badge holder may be GPS tracked, the system provides an increased incentive for efficiency by verifying that employees are where they say they are going to be. In times of heightened terror threat or cartel activity, GPS monitoring provides an increased layer of responsiveness in guiding agents out of harm's way. Patrols in deserts and other unpopulated border regions will become more penetrable to central command's awareness.

## Reliable, standardized, fast documentation

With Virtual Badge, every incident can be quickly and reliably documented, then instantly uploaded to a central repository. Form, photo, time, date and geocode data is all quickly available, eliminating the need for re-entry and system configuration as well as opportunities for data redundancies or gaps. Illegal border crossings and detentions, VISA violations, criminal ID, inadmissible persons and national security concerns, illicit asset seizure, pest and quarantine materials discovery, and successful freight and vehicle checks can all be rapidly documented. Asset request forms in the field will instantly report to management for handling. Barrier and border wall completion assessments will allow for border construction initiatives to proceed faster. Template summary reports on operations and incidents are quickly available, giving command a convenient daily overview of events.

## Mapping border regions, data and trends

In addition to the availability of form data, all gathered information is populated to a map, giving management and field agents instantaneous geographic awareness. Border vulnerability assessments and

border migration flow paths can be continuously mapped and updated. Real time, spatial understanding of patrols and threats allows all other actors to make better decisions, faster. Expedient, geocoded data gathering in sparse, remote regions provides additional illumination to command. Backend statistical analysis and APIs for statistical programs allows for geographic trend plotting to update as information is obtained.

**Coordination: Intra- and Interagency**

The web-based cloud hosting, architecture and simple log-in of Virtual Badge allows for interoperability among agencies. Given the scope of protection operations, coordination among local law enforcement and EMS, National Guard, Coast Guard, FBI, FEMA and other DHS, TSA, ICE, CBP and the USDA is necessary. Using the Virtual Badge platform, all of these agencies can easily and discretely share data amongst one another for large scale operations, bypassing proprietary gatekeeping, IT configurations and the obstacle of territorial officers. Push notifications from an all-seeing command to individual agents or teams increases the coordination of operations without clogging up radio traffic. Push directions to re-route, warnings about cartel activity, or tips about illicit traffic can multiply the communication efforts of entire divisions.

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