

RPS – Streetwise Integration

Project Summary

The RPS to Streetwise Interface has two key functions relative to the CAD system.

- RPS needs to send them (push) the dispatch calls that belong to the fire department, and send them status updates when the call status changes
- RPS needs to receive and process the unit status and location sent by Streetwise AVL (pull).

RPS – Streetwise Configuration Program

GOAL: To have a way for the IT staff to maintain/modify settings as infrastructure elements change.

The configuration program will allow the user to configure settings for the services. That information will be stored in an XML file and in tables in the RPS database

RPS To Streetwise – New/Updated Dispatch Calls

GOAL: To get accurate call information to the Fire Units in the shortest possible timeframe.

RPS needs to send new and updated Dispatch Calls to Streetwise using a webservice. To accomplish this, there will be a windows service polling the database for new and updated dispatch calls to send to Streetwise. When it finds one, it will send it, and log that it was sent in the database.

Streetwise to RPS – Unit Locations and Status

GOAL: To capture Fire Unit location and place it into the central unit location geo-store so it is visible to dispatch in real-time and so that historical analysis and replay can be performed.

Streetwise will send location and status messages from the units every 5 seconds, to an RPS webservice. The message will include unit location, heading, and speed, along with a unit status.

The RPS webservice will read those incoming messages and log them to the database. It will also monitor the incoming data stream for status changes, and when change is detected, it will update the unit status, and if needed the call status.

There will be an RPS Windows service that reads the messages from the database and pushes those location updates to the Compasstrac LDE. This program will need to establish a socket to the LDE, and keep that connection open. It will be robust enough to handle temporary outages and reconnect as soon as possible.

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re=lativity, inc.

ADDRESS

Jonesboro Fire Department
Jonesboro Fire Department

ESTIMATE 1028

DATE 06/04/2018

ACTIVITY	QTY	RATE	AMOUNT
RPS - Integration Services Integration with Streetwise (\$150/hour at estimated 40 hours (see attached documentation))	40	150.00	6,000.00
Customer Discount Hometown discount	40	-75.00	-3,000.00
TOTAL			\$3,000.00

Accepted By

Accepted Date