

# **Events Using Polylines**

**Tucker Brown** 





#### Current Events using a single point for the events location

• Can enter a head and tail but are reported separately

### This enhancement would allows users to specify a polyline as the location of event

Mostly used for road closures such as flooding or constructions



#### How should this be implemented?

- What points of the polyline, should be EM Locations?
  - Start Point?
  - Start Point and End Point?
  - All Points (including midpoints)?
- How should the user select Midpoints?
  - Manually
  - Possible integration with GIS to try to follow the roadway closely?
- Should Lane blockage be allowed?
  - Or only Closures?
- What should the description of this say?
  - X Lanes Blocked (or Closed) from A to B

### • Other Ideas? Other areas you might like to discuss this changing?







# **QUESTIONS?**



# **Bridge Preemption**

Mark Laird





## **Bridge Preemption**

#### Purpose

- Provide FL-ATIS notifications when drawbridges open and close
- Log events in SunGuide for tracking
- Minimize operator involvement

#### Overview

- Data from traffic controller is published via a web service by the managing agency
- EM consumes data, creates event, publishes and closes event without operator involvement





### Data Source





# SunGuide



- EM polls a RESTful web service at configurable interval (https)
- When a BRIDGE PREEMPTION record is found, searches for EM location with matching long/lat.
- If location found, checks for existing event.
  - If found, updates the ending date/time. (not yet implemented?)
  - If not found:
    - Creates new unconfirmed event of type Bridge Up with all lanes blocked
    - Creates and activates response plan with FL-ATIS Publish item
- Checks active Bridge Up events.
  - If associated ID is no longer in feed, terminates response plan and closes the event
  - Will not create a duplicate event (with same Intersection Status ID)
- SG closes events automatically at the specified ending time if the data feed is unavailable
  - Operators can close events



- FL-ATIS
  Must create two EM locations to cover both directions of travel
- May associate with one intersection or may choose upstream intersection in each direction
- Appear on maps at intersection







#### Closure - New

## FL-ATIS – New Event Alert

US-1 Southbound

Unconfirmed draw bridge in up position in Miami-Dade on US-1 south at Brickell Avenue Bridge, all lanes blocked. Last updated at 09:04:01AM.

Start Time Mar 7 2018, 9:04 AM

http://fl511.com/EventDetails/District%206/674501

#### •

Route Brickell Avenue Bridge SB Current Travel Time 2 min Normal Travel Time 1 min Distance 0.4 miles





# FL-ATIS – Cleared Event Alert

Closure - Cleared

US-1 Northbound

Unconfirmed draw bridge in up position in Miami-Dade on US-1 north at Brickell Avenue Bridge, all lanes blocked. Last updated at 09:04:01AM.

Start Time Mar 7 2018, 9:04 AM

http://fl511.com/EventDetails/District%206/674500

Route Brickell Ave Br NB Current Travel Time 2 min Normal Travel Time 1 min Distance 0.5 miles





# Configuration

- List of sources
- Source
  - URL of web service
  - Description, e.g. Miami Dade County
  - Polling interval (secs)
  - Retry limit
  - SunGuide Agency, e.g. MDC
  - SunGuide Contact, e.g. MDC Website
  - SunGuide mailing list





### Web.Config

<em< th=""><th></th><th></th></em<>		
	<bridgepreemption></bridgepreemption>	
	<webservices></webservices>	
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		<url>https://mdcware.miamidade.gov/api/IntersectionStatus?type=xml</url>
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<notifyingAgencyShortName>MDC</notifyingAgencyShortName>

<notifyingContactShortName>MDC Website</notifyingContactShortName>

<mailingListShortName>Bridge Events</mailingListShortName>

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</bridgePreemption>

</em>

SSUG





### Issues

#### • Data issues in web service data

- Bouncing
- Duplication
- Delays

#### Issue with unpublishing from FL-ATIS

- Blockage is not updated before closing event
- "Clearance" message says all lanes blocked
- Issue with event type
  - Clearance message says "... draw bridge in up position..."