Waze & Performance Measures
Webinar
Kapsch/NCTCOG
Wednesday, January 24th, 2018 9:30 AM
<table>
<thead>
<tr>
<th></th>
<th>Agenda</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Team Introduction (9:30-9:45)</td>
</tr>
<tr>
<td>2</td>
<td>Objectives of the workshop (9:45-9:50)</td>
</tr>
<tr>
<td>3</td>
<td>IEN Simplified Event Entry Quick Demo Recap (9:50-10:20)</td>
</tr>
<tr>
<td>4</td>
<td>511DFW Website Re-Design (10:20-11:15)</td>
</tr>
<tr>
<td>5</td>
<td>Enhancements – Deployment Schedule (11:15-11:30)</td>
</tr>
<tr>
<td></td>
<td>Lunch Break (11:30-12:45)</td>
</tr>
<tr>
<td>6</td>
<td>Waze Bi-Directional Integration (12:45-2:00)</td>
</tr>
<tr>
<td>7</td>
<td>Performance Measures Enhancements (2:00-3:45)</td>
</tr>
<tr>
<td>8</td>
<td>Closing (3:45-4:00)</td>
</tr>
</tbody>
</table>

"LEGAL DISCLAIMER FOR CONFIDENTIAL COMPANY PRESENTATIONS. This presentation is the property of Kapsch TrafficCom USA, Inc. and its subsidiaries (the “Company”) and is strictly confidential. It contains information intended only for the person to whom it is disclosed. With receipt of this information, recipient acknowledges and agrees that: (i) this document is not intended to be distributed; (ii) the recipient will not copy, fax, reproduce, divulge, or distribute this confidential information, in whole or in part, without the express written consent of the Company; (iii) all of the information herein will be treated as confidential material with no less care than that afforded to its own confidential material. This presentation is for informational purposes only."
Team Introduction

• Natalie Bettger
• Eric Quintana
• Marian Thompson
• Ranjith Dhanekula
• Juan Moreno
• Sudhakar Nallamothu
• Ahmad Sadegh
• Joe Zingalli
Objectives of the Webinar

• Quickly demonstrate the IEN Simplified Event Entry Enhancements
• Present 511DFW Website Re-Design Progress
• Discuss Waze Event Integration and Filtering Criteria
• Overview of Performance Measures
• Performance Measures Enhancements Demonstration
• Encourage the receipt of feedback from participants on all topics
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design

About 511DFW

Overview

MY511DFW on the Phone

On the phone, MY511DFW allows you to bypass menu prompts to go directly to current information for your preferred trips. During registration, you can save up to three phone numbers that 511DFW will recognize. When calling 511DFW, the phone system recognizes MY511DFW users via caller ID and immediately asks for the name of a saved trip set-up during MY 511 registration (e.g. "Home to work"). MY511DFW will respond with current traffic and/or transit information for your trip.

If your phone number has caller ID blocked, you must say, "MY 511" at the Main Menu. The system will respond by asking you to enter your 10-digit phone number. Upon recognition, MY511DFW will ask for one of your trip names and provide the current traffic and/or transit information.

To use MY511DFW on the phone, you must create an account. Click here to register.

MY511DFW on the Web

Traffic Features

Transit Features

Are there other MY511DFW features planned?
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design

The closure is required for the partial demolition of the Plano Parkway bridge. US 75 traffic will be directed to the frontage roads. For a full list of detour routes, along with a detailed map, click the "ALERT" link at the top of 511dfw.org.
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Website Re-Design

![Map of an area with a search bar for 511 DFW.](image-url)
511DFW Website Re-Design
511DFW Website Re-Design
511DFW Enhancements
Deployment Schedule

- IEN Simplified Entry upgrade in production week of Dec 15th, 2017
- Waze Data Interface to provide Event data to Waze week of January 5th, 2018
- Integrate Waze data into 511DFW in production in June 2018
- Performance Measures updated in production in June 2018
- 511DFW Re-Designed Bilingual Website in production in July 2018
- Bilingual 511DFW IVR in production in July 2018
Lunch Break
(1 Hour and 15 Minutes)
Waze Integration

• Bi-Directional Data Integration:
  − Waze > 511DFW (Waze Subscriber)
  − 511DFW > Waze (Waze Publisher)

• Waze provides 3 types of events (all currently integrated into the 511DFW system):
  − Alerts
  − Jams
  − Irregularities
Waze Integration
Proposed Filtering Criteria - Purpose

Purpose Behind Filtering Certain Waze Events

• Waze can provide:
  – Events on road types that are not useful for public consumption
  – Events that have low confidence and/or low reliability
  – Events with certain subtypes that do not affect traffic
  – Duplicated event data that should be filtered

• Filters can be customized by modifying a translation file without changing any code
Waze Integration
Proposed Filtering Criteria (I)

• Road Types
  – Alerts and jams associated with certain road types are consumed (Ex. Streets, Freeways, Ramps, etc.)
  – Alerts and jams associated with certain road types are filtered out (Ex. Trails, Ferry Crossing, Stairway, Railroads, etc.)

• Confidence and Reliability
  – Waze alerts and jams with confidence and/or reliability value less than 5 are filtered out

• Types and Subtypes
  – Waze alerts and jams with certain combination of alert types and subtypes are consumed (Ex. Major accident, heavy traffic jam, etc.)
  – Waze alerts and jams with certain combination of alert types and subtypes are filtered out (Ex. Jam light traffic, hazard on shoulder, etc.)
Waze Integration
Proposed Filtering Criteria (II)

• Blocking Alerts
  – Jams related to road closures are filtered out to reduce duplicated events
  – Alerts are already created for road closures
• Duplicate Alerts
  – Waze feed can contain duplicate alerts with identical published date, type, subtype, street and city
Waze Integration
Presenting Waze Data to the Public (I)

• Public Website and Mobile Application Map Integration:
  – Provide Waze event data as a separate map layer
  – Separate Waze event data into Alerts, Jams, and Irregularities sub-layers

• IEN Integration:
  – Provide Waze event data as a separate map layer
  – Separate Waze event data into Alerts, Jams, and Irregularities sub-layers
  – Waze events read only and cannot be managed by IEN Operators
Waze Integration
Presenting Waze Data to the Public (II)

• IVR Integration:
  − Waze event data to be provided to phone system ONLY if event data can be mapped to a 511DFW location
    • Events need proper facility, direction, and intersection translation to 511DFW network
    • Without proper mapping translation, Waze events cannot be made available on the phone
Waze Integration Demonstration
(Utilizing prototype showcase website)
http://ppweb.511dfw.org:8081

Web Services Demonstration
(Accessing Your Data)
http://4.31.137.92/DFW511/PublicWebServices/DFW511_WebServices.asmx
Performance Measures Enhancements
Performance Measures

Architecture
Performance Measures Demonstration
Comments and Questions
Contact Information

Marian Thompson
Transportation System Operations Supervisor
817-608-2336
mthompson@nctcog.org

Eric Quintana
Transportation Planner III
817-608-2381
equintana@nctcog.org

Natalie Bettger
Senior Program Manager
817-695-9280
nbettger@nctcog.org
Thank you!
NCTCOG/Kapsch