

Waze Traffic View Feed

Data specifications

Version 1

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Introduction

Overview

When you define an area in Traffic View, you get the most accurate traffic reporting available for that area. Traffic View compares historical traffic data with live road reports shared by millions of Waze drivers, so you can see where traffic is congested, get alternative routes, and know what's unusual for that day. This lets you promote safer drives for your citizens, improve traffic flow and speed up response and clearing times.

The Traffic View feed is the full set of raw data from Traffic View. If you integrate this data into your communication methods, you can post ETA times on digital billboards and give your citizens the most current information on your commute apps. You can also use the Traffic View feed to aggregate data over time and set alerts for unusual traffic incidents that fall outside the normal traffic patterns for a given day and time.

Traffic speed information comes either from drivers using Waze (Wazers) or external sources.

How to understand Waze Traffic View feed data

This document details the structure and content of the Waze Traffic View data feed.

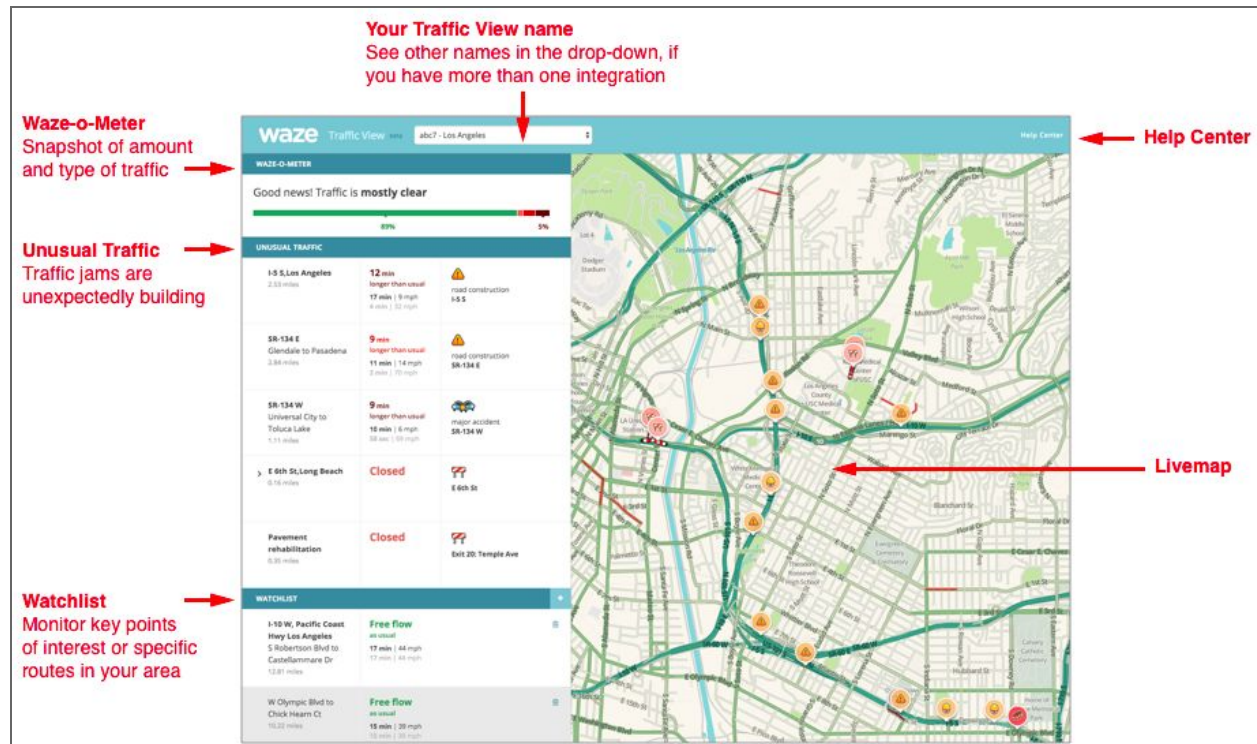
The Traffic View feed is the raw data from the Traffic View integration. When you set your polygon and watchlist in Traffic View, Waze tracks the routes within them.

A route is defined as a road or group of roads to get from a starting point to a destination. When you set a route for your Watchlist, you define and name the route yourself.

The Traffic View feed shows you information about your routes, including how long it takes to travel the route, the length of the route, the overall jam level of the route, and possibly an alternate route if it has a faster ETA than the original.

When a route has jams on it, Waze splits it into subroutes, each with a different jam level. This gives a more granular level of detail to where on the route the jams are. For example, a route can be split into 4 subroutes with corresponding jam levels of 0, 4, 3, 0.

In addition, the Traffic View feed gives you data about the routes within the defined polygon that have [unusual traffic](#).



How to retrieve the Waze Traffic View feed

To request the Waze Traffic View feed, please email ccp@waze.com.

When you have the Waze Traffic View integration, you get a URL link to the JSON file containing the Traffic View feed data. Waze shared data is approved only for CCP partners, as per the CCP partner agreement.

The data feed refreshes once every minute and is provided to you by URL.

- **To get the data, you need:**
 - Waze Traffic View integration that includes
 - A defined area. This is either a set polygon with up to 4 points or a bounding box (see this [tool](#) as an example)
 - Defined routes in the Traffic View watchlist
- **The URL looks like this:** <https://www.waze.com/rtservers/broadcast/BroadcastRSS>

What you'll see in the Waze Traffic View feed

Here's the information you see in the Traffic View feed:

1. **General traffic information** – routes, unusual traffic, ETAs
2. **Irregularities (also called [unusual traffic](#))** – alerts and traffic jams that affect an exceptionally large number of users
3. **Incidents/reports/alerts** – Waze user generated reports and alerts related to a specific incident causing traffic.

Note: When you change the polygon or routes in the Traffic View tool, your feed changes too.

JSON Element	Value	Description
alternateRoute		A suggested route with a faster ETA for this route. This is only calculated for routes that have a jam level over 1 and ETA more than 2 minutes that free flow (traffic is slower at least by 2 mins)
bbox		Bounding box of the feed
broadcasterId		id of the feed owner in Waze database
type	See alert type table	Event type
subtype	See alert subtypes table	Event subtype - depends on atof parameter
street	String	Street name (as is written in database, no canonical form, may be null)
city	String	City and state name [City, State] in case both are available, [State] if not associated with a city. (supplied when available)
country	String	(see two letters codes in http://en.wikipedia.org/wiki/ISO_3166-1)
envelope		Bounding box of the route
historicTime		Time in seconds it usually takes to cross this route on the current day of week and time
id		Route id in the database
irregularities		List of routes that are found as having high ETA relative to historic ETAs (a.k.a. Unusual traffic events)
Under irregularities/route name		
id		Route name (i.e. major street name this route goes through, similar to route name a user sees when routes from the app)
type		A counter running starting with 0 that counts the number of irregularities on routes
fromName, toName		Is always DYNAMIC
time, line, length, historicTime, jamLevel, envelope, alternateRoute, leadAlert		Street names where routes starts/ends
isMetric		As described in route definitions
jamLevel		Indication to the UI what units to use in the display.
leadAlert		jamLevel - total jam level of the route from 0=no jam to 4=standstill
		One of many alerts on the route that's prioritized as the most major one

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Under leadAlert:		
id		Alert id (internal id)
type		Alert type
subType		Alert sub type
reportByNickname		Nickname of the reporter user
reportByMood		Mood id of the reporter user
description		Alert description as added by the reporting user (optional)
numThumbsUp		Number of thumbs up given by wazers to this alert
numNotThereReports		Number of thumbs down given by wazers to this alert
City, Street		of the alert (optional)
reportTime		When alert was reported
position		Alert location (latitude, longitude)
length		Length of route in meters
lengthOfJams		List of total length of jams in the bounding box by jam level (indicates how jammed the area is)
line		Route geometry
subRoutes		List of sub sub routes. When a route has any jams on it the route is split into sub routes, each of them with a different jam level. For example, a route could be split into 4 sub routes with corresponding jam levels 0,1,3,0.
Under subRoutes:		
fromName, toName		Street names where subroute starts and ends
line, length, time, historicTime, jamLevel, envelope		route data as described in basic definitions, just for sub route.
name,fromName, toName		Given by the feed owner, describes the route
segments		Segments ids of the route
time		Time in seconds it takes to cross the route right now (i.e. in the last check. Checks happen about every two minutes)
type		Always static
usersOnJams -		Count of users per jam level (these are relative weighted numbers)

Traffic View feed example

```

{
  "usersOnJams": [
    {
      "wazersCount": 1718,
      "jamLevel": 0
    },
    {
      "wazersCount": 0,
      "jamLevel": 1
    },
    {
      "wazersCount": 25,
      "jamLevel": 2
    },
    {
      "wazersCount": 0,
      "jamLevel": 3
    },
    {
      "wazersCount": 0,
      "jamLevel": 4
    }
  ],
  "routes": [
    {
      "historicTime": 446,
      "line": [
        {
          "x": -74.20689323194252,
          "y": 40.64175770128392
        },
        {
          "x": -74.14963579315261,
          "y": 40.60903444419476
        }
      ],
      "bbox": {
        "minY": 40.60903444419476,
        "minX": -74.22707498420026,
        "maxY": 40.643716689521995,
        "maxX": -74.14963579315261
      },
      "length": 9846,
      "type": "STATIC",
      "jams": [],

```

```

"alerts": [],
"toName": "",
"name": "278 E",
"fromName": "",
"jamLevel": 0,
"id": 1376,
"time": 436
},
{
  "subRoutes": [
    {
      "toName": "SR-139 W (lower)",
      "historicTime": 358,
      "line": [
        {
          "x": -74.006321,
          "y": 40.722572
        },
        {
          "x": -74.006582,
          "y": 40.722752
        },
        {
          "x": -74.085259,
          "y": 40.730522
        }
      ],
      "bbox": {
        "minY": 40.730522,
        "minX": -74.085259,
        "maxY": 40.740889,
        "maxX": -74.062409
      },
      "fromName": "SR-139 W (lower)",
      "length": 3520,
      "jamLevel": 0,
      "time": 261
    }
  ],
  "historicTime": 687,
  "line": [
    {
      "x": -74.00632136441801,
      "y": 40.7225729836073
    },
    {
      "x": -74.08525957374057,

```



```

      "y": 40.73052272482624
    }
  ],
  "bbox": {
    "minY": 40.7225729836073,
    "minX": -74.08525957374057,
    "maxY": 40.740889,
    "maxX": -74.00632136441801
  },
  "length": 9092,
  "type": "STATIC",
  "jams": [],
  "alerts": [],
  "toName": "",
  "name": "78 W",
  "fromName": "",
  "jamLevel": 0,
  "id": 1377,
  "time": 735
}
],
"irregularities": [
{
  "alerts": [],
  "historicTime": -1,
  "line": [
    {
      "x": -74.016234,
      "y": 40.706399
    },
    {
      "x": -74.010097,
      "y": 40.70187
    }
  ],
  "bbox": {
    "minY": 40.706399,
    "minX": -74.016234,
    "maxY": 40.706399,
    "maxX": -74.016234
  },
  "name": "Double tube closure ",
  "length": 1040,
  "jamLevel": 5,
  "id": 0,
  "time": -1,
  "type": "DYNAMIC",

```

```

"jams": [],
"leadAlert": {
  "numComments": 0,
  "comments": [],
  "city": "Manhattan, NY",
  "numThumbsUp": 0,
  "street": "Battery Park Underpass",
  "subType": "ROAD_CLOSED_EVENT",
  "id": "alert-2130271205/3c856425-262f-3668-b03c-25d3b02c01f7",
  "position": "40.706399 -74.016234",
  "type": "ROAD_CLOSED",
  "numNotThereReports": 0,
  "isLeadAlert": true,
  "reportTime": 1522084545431
}
},
{
  "alerts": [],
  "historicTime": -1,
  "line": [
    {
      "x": -74.050004,
      "y": 40.73128
    },
    {
      "x": -74.062409,
      "y": 40.73913
    }
  ],
  "bbox": {
    "minY": 40.73128,
    "minX": -74.050004,
    "maxY": 40.73128,
    "maxX": -74.050004
  },
  "name": "Construction ",
  "length": 1414,
  "jamLevel": 5,
  "id": 1,
  "time": -1,
  "type": "DYNAMIC",
  "jams": [],
  "leadAlert": {
    "numComments": 0,
    "comments": [],
    "city": "Jersey City, NJ",
    "numThumbsUp": 0,

```

```

    "street": "SR-139 W (lower)",
    "subType": "ROAD_CLOSED_EVENT",
    "id": "alert-2132049084/1c67d40f-2e98-30cb-a64a-ae153bfe850a",
    "position": "40.73128 -74.050004",
    "type": "ROAD_CLOSED",
    "numNotThereReports": 0,
    "isLeadAlert": true,
    "reportTime": 1522077324308
  }
},
],
"broadcasterId": "b9c6100b281f316fbc17b6d94f96524f",
"areaName": "ny_area",
"bbox": {
  "minY": 40.208,
  "minX": -74.75,
  "maxY": 41.108,
  "maxX": -73.38
},
"name": "New York Area | DEMO",
"isMetric": false,
"restrictions": {},
"lengthOfJams": [
  {
    "jamLevel": 1,
    "jamLength": 1872
  },
  {
    "jamLevel": 2,
    "jamLength": 10461
  },
  {
    "jamLevel": 3,
    "jamLength": 9917
  },
  {
    "jamLevel": 4,
    "jamLength": 1470
  },
  {
    "jamLevel": 5,
    "jamLength": 43032
  }
],
"updateTime": 1522138104077
}

```

Alert types

Waze currently supports the following types and subtypes of user-generated alerts:

ID	Alert type	Alert Subtype	
	ACCIDENT	<ul style="list-style-type: none"> • ACCIDENT_MINOR • ACCIDENT_MAJOR • NO_SUBTYPE 	
	JAM	<ul style="list-style-type: none"> • JAM_MODERATE_TRAFFIC • JAM_HEAVY_TRAFFIC • JAM_STAND_STILL_TRAFFIC • JAM_LIGHT_TRAFFIC • NO_SUBTYPE 	
	WEATHERHAZARD / HAZARD	<ul style="list-style-type: none"> • HAZARD_ON_ROAD • HAZARD_ON_SHOULDER • HAZARD_WEATHER • HAZARD_ON_ROAD_OBJECT • HAZARD_ON_ROAD_POT_HOLE • HAZARD_ON_ROAD_ROAD_KILL • HAZARD_ON_SHOULDER_CAR_STOPPED • HAZARD_ON_SHOULDER_ANIMALS • HAZARD_ON_SHOULDER_MISSING_SIGN • HAZARD_WEATHER_FOG • HAZARD_WEATHER_HAIL • HAZARD_WEATHER_HEAVY_RAIN • HAZARD_WEATHER_HEAVY_SNOW • HAZARD_WEATHER_FLOOD • HAZARD_WEATHER_MONSOON • HAZARD_WEATHER_TORNADO • HAZARD_WEATHER_HEAT_WAVE • HAZARD_WEATHER_HURRICANE • HAZARD_WEATHER_FREEZING_RAIN • HAZARD_ON_ROAD_LANE_CLOSED • HAZARD_ON_ROAD_OIL • HAZARD_ON_ROAD_ICE • HAZARD_ON_ROAD_CONSTRUCTION • HAZARD_ON_ROAD_CAR_STOPPED • HAZARD_ON_ROAD_TRAFFIC_LIGHT_FAULT • NO_SUBTYPE 	
	MISC	<ul style="list-style-type: none"> • NO_SUBTYPE 	
	CONSTRUCTION	<ul style="list-style-type: none"> • NO_SUBTYPE 	
	ROAD_CLOSED	<ul style="list-style-type: none"> • ROAD_CLOSED_HAZARD • ROAD_CLOSED_CONSTRUCTION • ROAD_CLOSED_EVENT 	

- | | | | |
|--|--|--------------|--|
| | | • NO_SUBTYPE | |
|--|--|--------------|--|

Routes example

```

▼ routes [40]
  ► 0 {15}
  ► 1 {13}
  ► 2 {14}
  ▼ 3 {14}
    ▼ subRoutes [2]
      ▼ 0 {8}
        toName : Tol Cikampek (Cikunir-Cikarang)
        historicTime : 2231
        ► line [161]
        ► bbox {4}
          fromName : Tol Tebet-Cawang
          length : 13117
          jamLevel : 0
          time : 2016
        ► 1 {8}
        historicTime : 2938
        ► line [228]
        ▼ bbox {4}
          minY : -6.258305891822439
          minX : 106.87574211205309
          maxY : -6.243294000000029
          maxX : 106.99060598481726
          length : 16467
          type : STATIC
        ► jams [0]
        ► alerts [0]
          toName : Tol Cikampek (Cikunir-Cikarang)
          name : Tol Cikampek (Cawang-Cikunir); Tol Cikampek (Cikunir-Cikarang)
          fromName : Tol Cawang-Tebet
          jamLevel : 2
          id : 9202
          time : 2723

```

Irregularities (unusual traffic jams) example

```

▼ irregularities [2]
  ▼ 0 {15}
    historicTime : 226
    ▶ line [13]
    ▶ bbox {4}
      length : 2199
      type : DYNAMIC
    ▶ jams [0]
    ▶ alerts [0]
    ▶ alternateRoute {6}
      toName : Jakarta Selatan,
      name : Tol Lingkar Luar (TMII-Ulujami)
      fromName : IM2
      jamLevel : 4
      id : 0
      time : 1406
  ▼ leadAlert {13}
    ▶ comments [0]
      numThumbsUp : 17
      reportByMood : 1
      reportByNickname : On3zt
      type : HAZARD
      numNotThereReports : 0
      isLeadAlert : ☒ true
      numComments : 0
      street : Tol Lingkar Luar (TMII-Ulujami)
      subType : HAZARD_ON_ROAD_CONSTRUCTION
      id : alert-1049262727/00ec0d36-eea4-338d-a3fa-15407c509987
      position : -6.292342 106.807891
      reportTime : 1516283119173

```