TransLoc Web Services API

URL

The URL will be relative to each website, but starting at the root will be located at /Services/JSONPRelay.svc

Methods

GetRoutesForMapWithScheduleWithEncodedLine

Purpose

Used to retrieve active Routes from Ride Systems. Also contains a link to a schedule for each particular route

Arguments

APIKey – Key used to authorize the request

Return

RouteWithSchedule[]

RouteID – Unique identifier for the route
Description – Description of the route
TextingKey – Unique string that represents the route when texted to Ride Systems
MapLineColor – Color of the route on the map
MapZoom – Default zoom level to set when this route is selected
MapLatitude – Default latitude to set when this route is selected
MapLongitude – Default longitude to set when this route is selected
IsVisibleOnMap – Reflects whether this route should be shown on the main page
IsCheckedOnMap –Reflects whether this route should be checked by default on the main page
IsCheckLineOnlyOnMap– Does not show on app
Order – Where this route falls in order with the other routes
StopTimesPDFLink – Link to use to get the schedule for this route
HideRouteLine – Setting on whether to show the route line
ShowPolygon– Setting to show the route line as a polygon rather than a line
InfoText– Subline text to use in the map panel for this route
EncodedPolyline – Google encoded points that make up the polyline
ETATypeID – What times do we show for the stops: 1) Estimates, 2) Schedules, or 3) SchedulesWithEstimates?

1. Estimates – Show the Estimate time (in time of day or minutes to arrival based on EstimateDisplayType)
2. Schedules – Show the Scheduled time (in time of day or minutes to arrival based on EstimateDisplayType)
3. Schedule With Estimates – Show the later of either the Schedule Time or Estimate time (in time of day or minutes to arrival based on EstimateDisplayType)

ShowRouteArrows– Setting on whether to show arrows on the Route Line

UseScheduleTripsInPassengerCounter– Not used

VehicleMarkerCssClass– CSS Class for Vehicle Marker

Stops - Name of the stop

RouteStopID– Unique Identifier for a Stop on a Route

RouteID – Unique Identifier for a Route

RouteDescription – Description of the Route

Description – Description of the Stop

Order – Order of this stop in comparison with the other stops.

Heading – GPS Heading taken when the bus moves away from this stop.

SecondsAtStop – Number of seconds the bus stays at this stop before moving to the next

SecondsToNextStop – Number of seconds it takes the bus from move from this stop to the next.

ShowEstimatesOnMap – Reflects setting on whether to show the estimates for this stop on the map panel

ShowDefaultedOnMap –Reflects whether to show this stop on the map

TextingKey – Unique string that represents the Stop when texted to Ride Systems

MaxZoomLevel –Reflects the zoom level to start showing this stop to the user

SignVerbiage– Alternate Stop Description used by Sign Applications

MapPoints– Not used

Landmarks – Misc landmarks associated with this particular route

LandmarkID – Unique identifier for the Landmark

Label – Description to be put on the map

AddressID – Unique ID associated with the address of this Landmark

Latitude

Longitude

GetMapVehiclePoints

Purpose

Returns the location of all of the vehicles on route

Arguments

APIKey – Key used to authorize the request

routeID – Optional, to restrict the results to a given Route ID.

Return

Vehicle[]

VehicleID—Unique Identifier for a Vehicle

RouteID – Unique Identifier for a Route

Name – Name of the Vehicle

Latitude – Latitude of Vehicle's current position

Longitude – Longitude of Vehicle's current position

GroundSpeed – Speed of Vehicle

Heading – Heading of Vehicle

Seconds – Seconds since the vehicle reported its location

IsOnRoute – Is the vehicle on Route?

IsDelayed– Is the vehicle Delayed?

GetVehicleRouteStopEstimates

Purpose

Returns the route stop estimates for Vehicles

Arguments

vehicleIdStrings – Comma separated integers of Vehicle ID's to retrieve

quantity – Number of records to return.

Return

VehicleEstimates[]

VehicleID—Unique Identifier for a Vehicle

Estimates[] – Estimates

RouteStopId – Unique ID of each Route Stop

Description – Description of Route Stop

OnRoute – Is the vehicle on Route?

VehicleId – ID of Vehicle

Text – Text of Estimate

Time –Time of Day of expected arrival

Seconds – Estimated Seconds until Arrival

IsArriving – Is the vehicle arriving?

EstimateTime – Estimated arrival Time of Day

ScheduledTime – Scheduled arrival Time of Day

OnTimeStatus– 0 – On time, 2 – Early, 3 – Late

GetStopArrivalTimes

Purpose

Used to return scheduled times and estimates for when vehicles will be at stops.

Arguments

APIKey – Key used to authorize the request

timesPerStop – Optional, number of scheduled times to return.

routeIDs – Optional, to restrict the results to a given Route ID.

routeStopIDs – Optional, to restrict the results to a given Route Stop ID.

Return

RouteStopArrival[]

RouteID – Unique Identifier for a Route

RouteStopID – Unique identifier for a Route Stop

Description– Not used

Times[] –Arrival Times

VehicleId – ID of Vehicle

Text – Text of Estimate

Time –Time of Day of expected arrival

Seconds – Estimated Seconds till Arrival

IsArriving – Is the vehicle arriving?

EstimateTime – Estimated arrival Time of Day

ScheduledTime – Scheduled arrival or departure Time of Day

IsDeparted– Has the vehicle departed?

ScheduledArrivalTime– Scheduled arrival Time of Day

ScheduledDepartureTime– Scheduled departure Time of Day

OnTimeStatus– 0 – On time, 2 – Early, 3 – Late

GetRouteSchedules

Purpose

Used to return scheduled times for a Route. This is used for cyclical routes, where the route runs twice an hour on the exact same path and schedule.

Arguments

routeID – Optional, to restrict the results to a given Route ID.

Return

RouteSchedule[]

RouteScheduleID – Unique ID for each schedule

RouteID – Unique Identifier for a Route

StartTime – Time of day the Route Schedule starts

StartTimeUTC – UTC Time of day the Route Schedule starts

EndTime – Time of day the Route Schedule ends

EndTimeUTC – UTC Time of day the Route Schedule ends

LoopsPerHour – Number of loops run per hour

StopTimes -

RouteStopScheduleID – Unique ID for each stop on the schedule

RouteScheduleID – Unique ID for the schedule

RouteStopID – Unique Identifier for a Stop on a Route

MinutesAfterStart – Number of minutes after the start of the loop until arrival at this stop

GetRouteScheduleTimes

Purpose

Used to return times in the day that a Route is active.

Arguments

APIKey – Key used to authorize the request

routeIDString – Optional, to restrict the results to a given Route ID.

Return

RouteScheduleTime[]

RouteID – Unique Identifier for a Route

StartTimeUTC – UTC time of day the Route Schedule starts

EndTimeUTC – UTC time of day the Route Schedule ends

StartTime – Time of day (in MST) the Route Schedule starts

EndTime – Time of day (in MST) the Route Schedule ends

ServerTime– Current time of day (in MST)

ServerTimeUTC– UTC Current Time of day

GetRoutes

Purpose

Abbreviated view of all active Routes on Ride Systems. Used for Smart Phones where data size is a limiting factor.

Arguments

APIKey – Key used to authorize the request

routeID – Optional, to restrict the results to a given Route ID.

Return

SmartPhoneRoute[]

RouteID – Unique Identifier for a Route

Description – Description of the Route

MapLineColor – Color of the Route on the Map

MapZoom – Default Zoom level to set when this route is selected

MapLatitude – Default Latitude to set when this route is selected

MapLongitude – Default Longitude to set when this route is selected

IsVisibleOnMap – Reflects if this route should be shown on the main page

StopTimesPDFLink – Link to use to get the Schedule for this Route

HideRouteLine – Setting on whether to show the Route Line

UseScheduleTripsInPassengerCounter– Not used

GetStops

Purpose

Abbreviated view of all active Stops on a route. Used for Smart Phones where data size is a limiting factor.

Arguments

routeID – Restrict the results to a given Route ID.

Return

SmartPhoneRouteStop[]

RouteStopID – Unique Identifier for a Stop on a Route

RouteID – Unique Identifier for a Route

Description – Description of the Stop

Longitude

Latitude

TextingKey – Unique string that represents the Stop when Texted to Ride Systems

MaxZoomLevel –Reflects the zoom level to start showing this stop to the user

ShowEstimatesOnMap – Reflects setting on whether to show the estimates for this stop on the map panel

ShowDefaultedOnMap –Reflects whether to show this stop on the map

MapPoints – GPS points that make up the path to the next stop

Latitude

Longitude

Heading- Not used

GetMarkers

Purpose

Abbreviated view of all active Landmarks on a route. Used for Smart Phones where data size is a limiting factor.

Arguments

routeID –Restrict the results to a given Route ID.

Return

SmartPhoneLandmark[]
RouteID – Unique Identifier for a Route
LandmarkID – Unique identifier for the Landmark
Label – Description to be put on the map
Latitude
Longitude

GetMapConfig

Purpose

Returns settings that are used for laying out the map.

Arguments

Return

MapType – Type of Google Map to use (as listed by Google Maps API)
ShowRouteLines – Do we show the Route Lines on the map?
ShowTrafficOverlay – Do we show a Traffic Overlay on the map?
ShowStreetViewButton– Do we show a Street View button on the map?
ShowVehicleNameInIcons – Do we show Vehicle names?
VehicleNameIconHeight– Height of Vehicle Name Icon
VehicleNameIconWidth–Width of Vehicle Name Icon
StartLatitude – Latitude to show the map when first starting
StartLongitude – Longitude to show the map when first starting
StartZoom – Zoom level to show the map when first starting
AnchorSize–Not used
IconSize– Not used
IconStop – URL for Icon to use when the bus is stopped
IconNorth – URL for Icon to use when the bus is headed North
IconStopNorth – URL for Icon to use when the bus is stopped while headed North
IconNorthEastIcon – URL for Icon to use when the bus is headed North East
IconStopNorthEastIcon – URL for Icon to use when the bus is stopped while headed North East
IconEastIcon – URL for Icon to use when the bus is headed East
IconStopEastIcon – URL for Icon to use when the bus is stopped while headed East

IconSouthEastIcon – URL for Icon to use when the bus is headed South East
IconStopSouthEastIcon – URL for Icon to use when the bus is stopped while headed South East
IconSouthIcon – URL for Icon to use when the bus is headed South
IconStopSouthIcon – URL for Icon to use when the bus is stopped while headed South
IconSouthWestIcon – URL for Icon to use when the bus is headed South West
IconStopSouthWestIcon – URL for Icon to use when the bus is stopped while headed South West
IconWestIcon – URL for Icon to use when the bus is headed West
IconStopWestIcon – URL for Icon to use when the bus is stopped while headed West
IconNorthWestIcon – URL for Icon to use when the bus is headed North West
IconStopNorthWestIcon – URL for Icon to use when the bus is stopped while headed North West
LandmarkTransparency – Transparency setting for Landmarks
LogoContainerBackgroundColor – Color to use around the Logo Container
MphIndicateStop – What speed (MPH) indicates stop? <4 would be 4. <3 would be 3
PolyLineSize – Size of lines to draw when drawing route lines
PolyLineOpacity – Opacity of lines to draw when drawing route lines
RefreshEstimatesMilliseconds – How often do we ask for updated Estimates
ShowAndroidApp – Do we show the Android App Icon?
AndroidAppURL–URL for Android App
ShowIPhoneApp – Do we show the IOS App Icon?
IPhoneAppURL–URL for IOS App
EstimatesType – What Types of Estimates are we showing (moved into Route object as ETA Type)
EstimateDisplayType – "Minutes" or "Time", if we show estimates as Time of Day or Minutes until Arrival
ScheduleDisplayType– "Minutes" or "Time", if we show Schedule as Time of Day or Minutes until Arrival
EstimateShowSingleTime – Do we show a single time when showing estimates, or the estimate and scheduled time?
ScheduledTimesToGet – Number of scheduled times to return from GetRouteStopArrivals request
ArrivalTimesToDisplay – How many arrival times do we display?
ScheduleColumnDescription – Description to use in the Schedule column
MinutesFromScheduledTimeToEvaluateEstimatedTime – How many minutes from the Scheduled Time should we be before we start evaluating the Estimated Time? For example, we could say that we don't even look at estimates until we are 10 minutes from the Scheduled Time
ScheduledMinutesLateBeforeEstimate – How many minutes after the Scheduled Time can the estimate be before we switch it over? For example, if the Scheduled Time is 10:10 am, and this setting is 5, then the estimate needs to be after 10:15 am before we can show it. If the estimate is 10:12, then it isn't more than 5 minutes after the schedule, so it will continue to show the Scheduled time
EstimatedMinutesLateBeforeSchedule – Sometimes, the estimate may be too far in the future. If this is the case, then we may want to roll back the time to the Scheduled Time. For example, if the Scheduled Time is 10:10 am, and the estimate is 11:00 am, then we don't want to show 11:00 am because it is too far in the future. This is what this setting represents. The Estimated Time must be within X minutes of the Scheduled Time. Otherwise, we ignore the estimate and roll back to the Schedule

ShowDepartedWhenEstimateIsRolledBackToSchedule – If we have to ignore the estimate because it is too far in the future (i.e. we rolled back to the Schedule) do we show the words ”Departed”?

ShowDepartedWhenNoEstimateAndScheduleIsPast – If there are no estimates, and the Scheduled time is in the past, do we show the words “Departed”?

AllowDepartedWhenScheduleIsInTheFuture – Do we allow the words “Departed“ to show when the scheduled time is in the future? I.E. if we rolled back and the schedule is still in the future, are we allowed to still show “Departed”?

ArrivalOrder – Bus/Time

AnimateVehicles – Do we animate the vehicles moving to their next point?

AnimateVehiclesFramesPerSecond–Vehicle animation Frames Per Second.

RefreshVehiclesMilliseconds – How often do we refresh the Vehicle Position?

RefreshVehicleCapacitiesMilliseconds – How often do we check for Vehicle Capacity?

Transparency – Deprecated

ZOrderVehicle – Deprecated

RouteStopIcon – Deprecated

ZOrderStop – Deprecated

ZOrderLandmark – Deprecated

RouteStopIconSize – Deprecated

GoogleAnalyticsKey – Google Analytics Key to use for this customer

RouteID – Specific Route ID that should only be shown on the map

SecondsFromStopToBeArriving – How many seconds from a stop until we show the word “Arriving”

RSSURL – URL to use for RSS Feed

RSSVisible – Is the RSS Feed visible?

TwitterVisible – Is the Twitter Feed Visible?

TwitterShowMessageDate– Show date / age of Twitter messages?

TwitterRefreshSeconds– Number of seconds between checks for Twitter messages.

ShowStopIcon – Do we show the Stop Icon when the bus is stopped?

ShowVehicleCapacity – Do we show the Vehicle Capacity?

LogoPosition – Where do we put the Client Logo?

PrimaryColor – Primary color to use on the map

SiteTitle – Title of the Map

EnableFindMe – Do we enable the Find Me Button?

EnableFavorites – Do we enable the Favorites Button?

EnableAlertsLink– Do we enable the Alerts Button/Link?

ShowMainMenuOnLoad – Do we show the right Main Menu after the map is shown?

ShowRouteMenuOnLoad – Do we show the left Route Menu after the map is shown?

TickerPosition – The position of the feed ticker (top[default]|bottom)

ShowAlertCount – Show the number of recent alerts or feed messages in navs

FluidRouteTable – Flags whether the Route Table is fluid

ArrivalBodyFixedFontSize– Fixed Font Size for the Arrivals body

ShowArrivalColumnHeaders – Whether to show Arrival Headers

ShowArrivalColumnHeaderLabels– Whether to show Arrival Header Labels (different from ShowArrivalColumnHeaders because it will show the header, just not the column labels)

RouteArrowStrokeColor – When showing Route Arrows, what color is the border?

RouteArrowStrokeWeight – When showing Route Arrows, what weight is the border?

RouteArrowOpacity – When showing Route Arrows, how opaque is the border?

RouteArrowScale – When showing Route Arrows, what size is the border?

RouteArrowRepeat – Determines the distance between consecutive icons on the line. This distance may be expressed as a percentage of the line's length (for example, '50%') or in pixels (for example, '50px'). To disable repeating of the icon, specify '0'. The default is '0'

RouteArrowOffset – Determines the distance from the start of the line at which an icon is to be rendered. This distance may be expressed as a percentage of the line's length (for example, '50%') or in pixels (for example, '50px'). The default is '100%'.

MapStyles – Styling for Google Maps

ShowVehicleEstimatesOnVehicleClick –for live map only

ShowVehicleNameOnVehicleClick–for live map only

ShowEstimatesWhenNoSchedulePresent–Show estimate when set if no schedule is available

NoVehicleEstimateVerbiage – What to say when there is No Estimate

ShowScheduleEstimateColumn – Do we show an Estimate Column when showing Scheduled Times?

ScheduleEstimateColumnVerbiage – Verbiage for The Estimate column on Schedules

ScheduleEstimateColumnTextColor – Color for Estimates

ScheduleColumnVerbiage – Verbiage for The Schedule column on Schedules

ScheduleTimeToDisplay – Arrival or Departure Time

ShowVehicleNameInScheduleHeader– live map only

ScheduleWithEstimateShowArrivalVerbiage– running schedule with estimates will show arriving if set

ArrivalVerbiage – Text to show when vehicle is Arriving

RouteMoreInfoVerbiage -- Verbiage to show under the More Info section for each route

AutomaticRefreshSeconds – Number of seconds to wait before refreshing map. If 0, no auto refresh

ApiKey – API Key to use when requesting data from certain services

CheckActiveRoutes – Do we automatically hit the button to only show Active Routes?

PasswordProtectMainMap– Do we Password Protect the Map?

PasswordProtectMainMapWithServer–

RideAdminClientID – Client ID used by Ride Systems to check the map password, and use for UserVoice

UseRouteGroups–

RouteGroupsSelectDescription–

RestrictEstimatesToVehicleAssignedToSchedule–

ShowCurrentTime– Do we show current time on map?

ShowCurrentTemp– Do we show current temperature on map?

DispatchMap– Settings for Dispatch Map

MinutesForLate–

MassAssignVehiclesByRoute–

MassAssignVehiclesByBlockGroup–

HighlightLateVehicles–

LateVehicleHighlightColor–

HighlightLateTimes–
LateTimeHighlightColor–
MinutesForEarly–
HighlightEarlyVehicles–
EarlyVehicleHighlightColor–
HighlightEarlyTimes–
EarlyTimeHighlightColor–
ShowDelay–
ShowRouteSubscriptEdit–
ShowVehicleCapacity–
ShowVehicleNameInIcons–
VehicleAssignmentType–
RestrictVehicleAssignmentType–
HideScheduleTrips–
EnableChatting–
MinutesForLate–

SocialMediaLinks – Links to show in the Social Media section
Type – Types: [facebook|twitter|tumblr]
Url – absolute url
Target – '_blank' will open link in a new window (can be anything that goes in the target attr)

MenuLinks – Links to show under the Main Menu
Url – absolute url
Content – the text displayed - can be a string or html
Target – '_blank' will open link in a new window (can be anything that goes in the target attr)
AppTarget–
IsIFrame–
Is_Displayed_On_Mobile–

RouteMenuLinks – Links to show in the Route Menu
Type – Types: [schedule]
Url – absolute url
Target – '_blank' will open link in a new window (can be anything that goes in the target attr)

MobileSettings – Settings used by the IOS Mobile App
PrimaryColor–
SecondaryColor–
TertiaryColor–
IconPrimaryColor–
IconSecondaryColor–
PrimaryLogoPath–
SecondaryLogoPath–

ShowRouteMenuOnLoad–

ShowMainMenuOnLoad–

ShowVehicleCapacityInEstimates–

StartZoom–

StartLatitude–

StartLongitude–

GetVehicleCapacities

Purpose

Return the current Capacity and Occupation for all vehicles

Arguments

Return

VehicleCapacity[]

VehicleID – Unique Identifier for a Vehicle

Capacity – Number of people a vehicle can hold

CurrentOccupation – Number of people currently on the vehicle

Percentage – Percentage of vehicle capacity that is filled

GetTwitterJSON

Purpose

Used to return Twitter messages for a client

Arguments

Return

Text – Tweet

Created_At – Date Tweet was created.

id–

id_str–

source–

truncated–

favorited–

retweeted–

lang–

isAlert–

isRideSystemsMessage–

GetBadgeScanData

Purpose

To return badge scan data

Arguments

StartDate

EndDate

Return

BadgeRFID

ClientTime

Counter

CounterType

Badge Scan

Entries

Exits

Latitude

LongBadgeNumber

Longitude

Route

RouteID

RouteStop

RouteStopID

ShortBadgeNumber

UTCTime

Vehicle

VehicleID

BadgeScanDetails

BadgeNumber26bitWithFacility

BadgeNumver35bitWithFacility

GetRidershipData

Purpose

To return the ridership from an APC

Arguments

StartDate

EndDate

Return

BadgeRFID

ClientTime
Counter
CounterType
Entries
Exits
Latitude
LongBadgeNumber
Longitude
Route
RouteID
RouteStop
RouteStoopID
ShortBadgeNumberUTC
Time
Vehicle
VehicleID