INRIX Mobile Client API v7.0 for Android

July 6, 2017

Overview of INRIX Traffic Services

With INRIX Traffic services, the application can take advantage of features, such as:

- Live traffic to avoid congestion and other delays
- Learned driving habits and routes to help take the guesswork out of when to leave and which way to go
- Forecast drive times, based on best time to leave
- Smart alerts notify when to leave and warns of incidents along a drive
- Automatic re-routing as conditions change
- Connected Calendar events for automatic driving directions to important appointments
- Find on-street parking and garages with rates and directions

The INRIX Traffic Application

The INRIX Traffic Application v6.8 is delivered through Google Play Store.

The INRIX Mobile Client Services SDK

The INRIX Mobile Client v7.0 API are accessed through GitHub.
https://github.com/INRIX/Android-MobileSDK-External

Release Notes

July 2017 – v7.0

July 6, 2017

INRIX Mobile Client APIs for Android

Most of the changes in SDK 7.0 are “under the hood” with significant architectural improvements enabling better scalability, stability, and OS compatibility.

Additionally, you can now obtain the posted speed limit for a specific location/road using the new class SpeedLimitManager.

January 2017 – v6.2

January 27, 2017

INRIX Mobile Client APIs for Android

Highlights from INRIX Mobile Client v6.2 release.

- New class: DangerousSlowdownsManager
  Identifies the locations on a map where there may be sudden unexpected drops in speed
- Requesting routes with RouteManager.RequestRouteOptions will now automatically use the user's heading if available, unless it is explicitly set using RouteManager.RequestRouteOptions.setHeading.

September 2016 – v6.1.5

September 22, 2016

INRIX Mobile Client APIs for Android

Highlights from INRIX Mobile Client v6.1.5 release.

- This release introduces the ability to request GasStations along a route using getGasStationsOnRoute

August 2016 – v6.1.4

July 29, 2016

INRIX Mobile Client APIs for Android

Highlights from INRIX Mobile Client v6.1.4 release.

- This release introduces the ability to capture the title of a CalendarTrip that's created from a calendar event on the user's device, with getTitle. E.g. *"Coffee with Joe"*

- A user may set a departure notification on a calendar event. The departure alert takes into account travel time and traffic conditions. This release introduces the ability to check if the user has enabled/disabled a calendar event with isPreDriveNotificationEnabled. If the user has enabled a calendar event, then get the alert interval time with getPreDriveNotificationMinutes.

- A Pre-Drive Notification is a departure alert that is set on the user's trips, calendar events, or saved places. This release introduces the getSource fields that gets the source of the push notification

- The on-street parking service that returns elements that correspond to where vehicles may park in city blocks, introduces a new polyline geometry. This release introduces new geometry, which aligns points along the parking blocks for roads with curves.

- This release provides support for parking blocks that are closed due to street cleaning in an ever growing list of major U.S. cities.

July 2016 – v6.1.3

July 5, 2016

INRIX Mobile Client APIs for Android

Highlights from INRIX Mobile Client v6.1.3 release.

- **Incidents**

  This release introduces the ability to set output parameters for incident-related requests using:

  - setOutputFields for IncidentRadiusOptions
  - setOutputFields for IncidentBoxOptions
  - setOutputFields for XDIncidentOptionsInRadius
  - setOutputFields for XDIncidentOptionsInBox

June 2016 – v6.1.2

June 1, 2016

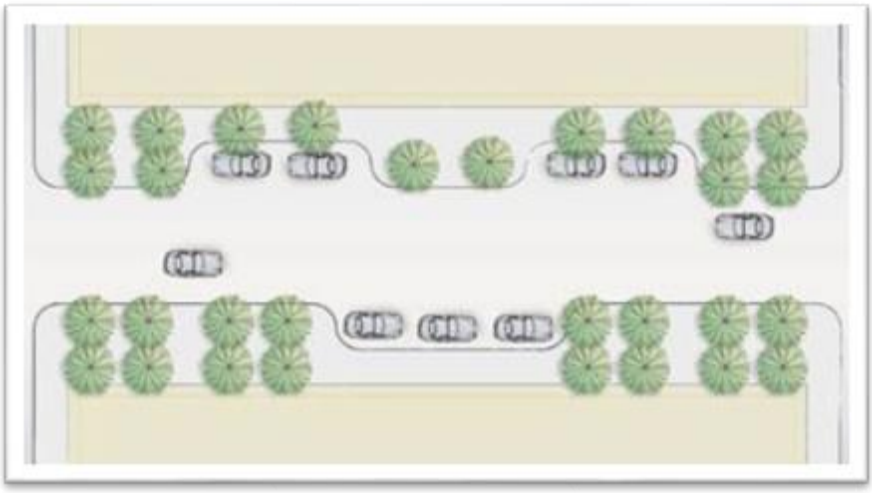
Highlights from INRIX Mobile Client v6.1.2 release.

- **AutoComplete**

  This release introduces a new autocomplete service that returns place predictions in response to user search queries.

  - AutocompleteMatch returns a match for an autocomplete search query.
  - AutocompleteMatch.MatchedString class represents a matched string in the *AutocompleteMatch* that gets the matched string's length and matched string's start offset.
  - AutocompleteMatch.Term represents a section within the description that is usually comma delimited. E.g. If the description gives, "*Starbucks, 7th Avenue, Seattle, WA, United States*", then the 2nd term would return 7th Avenue.
  - SearchManager.AutocompleteSearchOptions provides options for autocomplete search, such as the search radius and the minimum allowed characters for performing an autocomplete query.
  - SearchManager.IAutocompleteResponseListener is a response listener to retrieve autocomplete information.

- **On-Street Parking**



  This release introduces a new on-street parking service that returns elements that correspond to where vehicles may park in city blocks.

- ParkingInfo returns a list of on-street parking blocks and parking lots (and garages).
- Like a normal city blocks with cross streets, ParkingBlock returns the location of a parking block, along with street name and intersecting streets.
- One or more sections within a city block, where vehicles are allowed to park is returned by ParkingBlock.ParkingSection.
- ParkingBlock.ParkingSection.Side returns the side of the street where a parking section resides: left, right or center.
- The location of pay stations along a parking block is given by ParkingBlock.PayStation.
- Parking section restrictions are detailed in ParkingBlock.ParkingSection.Zone, such as carpool only or limited parking.
- ParkingBlock.Occupancy returns the dynamic information about the likelihood of parking availability in one section of a parking block. There are two types of data:
    - getValue returns the percentage of total spaces that are occupied in the section. The lower the percentage, the greater the prospect of parking availability.
    - getBucket returns an integer (0-3) that represents the likelihood of finding available parking, e.g. 3 is higher availability. The greater the number, the greater the prospect of available parking.
- ParkingBlock.PaymentMethod is used by *PayStation* and returns possible payment methods for on-street metered parking, such as cash, credit cards and pay by phone.
- ParkingBlock.PricingPayment returns a list of parking rates. E.g. free for the first hour, 4 USD for 2 hours, and 8 USD for 4 hours.
- ParkingBlock.ParkingRestriction gets parking restrictions per section of a parking block.
- ParkingManager.IParkingInfoResponseListener is a response listener to retrieve on-street parking information.
- The methods within the class ParkingManager underwent a name change:
    - getParkingLotsBox is renamed to getParkingInfoBox
    - getParkingLotsRadius is renamed to getParkingInfoRadius

v3.0 - v6.0

Highlights from INRIX Mobile Client v3.0 – v6.0 releases.

AddressLocator
AlertsManager
AreaLimitedManager
BoundingBox
CalendarTrip
CameraManager
CompositeTileManager
CompositeTileMetadata
CompressedPolyline
Configuration
ContactInfo
ContactInfoCollection
Error
Flags
GasStationCollection
GasStationManager
GasStationsConfig
GeoPoint
GeoUtils
ICancellable
IDataResponseListener
IEntity
IFilter
Incident
IncidentAlert
IncidentCollection.
IncidentReportResult
IncidentsConfig
IncidentsManager
IncidentUtils
InrixCore
InrixDateUtils
InrixException
IPushChannel
IPushNotification
Itinerary
ItineraryConfig
ItineraryEntry
ItineraryManager

JsonEntityBase
JsonRestEntityBase
JsonRestError
LearnedLocation
LearnedTrip
Location
LocationMatch
LocationsManager
ParkingConfig
ParkingLot
ParkingLotCollection
ParkingManager
PhsDataResponse
PreDriveNotification
PushChannelFactory
PushNotification
PushNotificationParser
RefreshableManager
ReportWrongTrafficColorConfig
RequestRouteResults
Route
RouteCongestionIndicatorInfo
RouteIncidentAlert
RouteManager
RoutesConfig
RouteTracker
RouteTravelTime
SavedLocation
SavedTrip
SdkConfigurationChangedListener
SearchManager
ServerErrorStatus
ServiceAvailability
ServiceAvailabilityManager
ServiceAvailabilityResult
SingleGasStationResult
SingleLocationCollection
SingleParkingLot
StringUtils
TileManager
TrafficManager
TrafficQuality
TrafficQualityConfig
TrafficTilesConfig
TravelTimeResponse
Trip

TripInformation
TripLibrary
TripManager
TripPoint
TripSchedule
UpdatedRouteResults
UserManager
UserPreferences
UserProperties
UserPropertyManager
ValueConverter
VehicleState
VehicleStateManager
XDIncident
ZoomLevel