INRIX Client Library v1.0

by INRIX, Inc.

Package
com.inrix.sdk

com.inrix.sdk
Class AlertsManager

```
java.lang.Object
   |
   +-com.inrix.sdk.AlertsManager
```

All Implemented Interfaces:
IRefreshableActions

---

public class **AlertsManager**
extends java.lang.Object
implements IRefreshableActions

Fields

SMART_ALERT_INTERVAL

```
private static final int SMART_ALERT_INTERVAL
```

Constant value: **30**

Constructors

AlertsManager

```
public AlertsManager()
```

Methods

getRefreshInterval

```
public int getRefreshInterval(AlertsManager.ACTIONS action)
```

Return the preferred refresh interval for an action

Parameters:
`action` - - refresh action

Returns:
preferred refresh interval (in seconds)

---

createIncidentAlert

```
public final IncidentAlert createIncidentAlert(AlertsManager.IIncidentsAlertListener
listener,
        AlertsManager.IncidentAlertOptions alertParams)
  throws InrixException
```

createAlert

(continued from last page)

Parameters:

`listener` - - response listener
`alertParams` - - alert params

Returns:

com.inrix.sdk
Class AlertsManager.ACTIONS

```
java.lang.Object
   |-java.lang.Enum
      |-com.inrix.sdk.AlertsManager.ACTIONS
```

All Implemented Interfaces:
java.io.Serializable, java.lang.Comparable

---

public static final class **AlertsManager.ACTIONS**
extends java.lang.Enum

Fields

SMART_ALERT

```
public static final com.inrix.sdk.AlertsManager.ACTIONS SMART_ALERT
```

Constructors

AlertsManager.ACTIONS

```
private AlertsManager.ACTIONS()
```

Methods

values

```
public static AlertsManager.ACTIONS[] values()
```

---

valueOf

```
public static AlertsManager.ACTIONS valueOf(java.lang.String name)
```

com.inrix.sdk
Interface AlertsManager.IIncidentsAlertListener

All Superinterfaces:
IDataResponseListener

public interface **AlertsManager.IIncidentsAlertListener**
extends IDataResponseListener

Incidents result listener.

com.inrix.sdk
Interface AlertsManager.IFilter

public interface **AlertsManager.IFilter**
extends

Methods

isItemAllowed

```
public boolean isItemAllowed(java.lang.Object item)
```

com.inrix.sdk
Class AlertsManager.IncidentAlertOptions

```
java.lang.Object
   |
   +-com.inrix.sdk.AlertsManager.IncidentAlertOptions
```

public static class **AlertsManager.IncidentAlertOptions**
extends java.lang.Object

Fields

alertInterval

```
private int alertInterval
```

Interval in seconds

speedFactor

```
private float speedFactor
```

filter

```
private com.inrix.sdk.AlertsManager.IFilter filter
```

Constructors

AlertsManager.IncidentAlertOptions

```
public AlertsManager.IncidentAlertOptions(int alertInterval,
                                          AlertsManager.IFilter filter)
```

Init options

Parameters:

`alertInterval` - - in seconds
`filter` - - filter to filter out incidents

Methods

setSpeedFactor

```
public void setSpeedFactor(float speedFactor)
```

Set speed factor. This value is used to dynamically determine incident distance depending on current speed. So for instance if speed factor is set to 10, and current speed is 60mph, we are going to request incident in 6 miles radius (60mph / 10 = 6). Higher speed - bigger radius to request incidents

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Parameters:
`speedFactor` - . Should be > 0. Default value is 10

getSpeedFactor

`float` **`getSpeedFactor`**`()`

setFilter

`public void` **`setFilter`**`(AlertsManager.IFilter filter)`

Set filter to filter out incidents

Parameters:
`filter`

getFilter

`AlertsManager.IFilter` **`getFilter`**`()`

setInterval

`public void` **`setInterval`**`(int seconds)`

Set desired notification interval in seconds

Parameters:
`seconds`

getInterval

`int` **`getInterval`**`()`

com.inrix.sdk
Class Error

```
java.lang.Object
   |
   +-com.inrix.sdk.Error
```

public class **Error**
extends java.lang.Object

Error describes failure reason and type.

Fields

causeMessage

```
private java.lang.String causeMessage
```

errorId

```
private int errorId
```

type

```
private com.inrix.sdk.Error.Type type
```

Constructors

Error

```
public Error(VolleyError cause)
```

Instantiates a new error, using catch'd exception as source of information

Parameters:
`cause` - the cause

Methods

getErrorType

```
public Error.Type getErrorType()
```

Gets the error type.

Returns:
the error type

getErrorId

```
public int getErrorId()
```

Gets the error id.

Returns:
the error id

getErrorMessage

```
public java.lang.String getErrorMessage()
```

Gets the error message.

Returns:
the error message

toString

```
public java.lang.String toString()
```

com.inrix.sdk
Class Error.Type

```
java.lang.Object
   ┗-java.lang.Enum
      ┗-com.inrix.sdk.Error.Type
```

All Implemented Interfaces:
java.io.Serializable, java.lang.Comparable

---

public static final class **Error.Type**
extends java.lang.Enum

The Enumeration Type, describes error type.

Fields

NetworkError

```
public static final com.inrix.sdk.Error.Type NetworkError
```

SDKError

```
public static final com.inrix.sdk.Error.Type SDKError
```

ServerError

```
public static final com.inrix.sdk.Error.Type ServerError
```

Constructors

Error.Type

```
private Error.Type()
```

Methods

values

```
public static Error.Type[] values()
```

(continued from last page)

valueOf

```
public static Error.Type valueOf(java.lang.String name)
```

com.inrix.sdk
Class GasStationManager

```
java.lang.Object
   |
   +-com.inrix.sdk.GasStationManager
```

All Implemented Interfaces:
IRefreshableActions

---

public class **GasStationManager**
extends java.lang.Object
implements IRefreshableActions

Class to get the gas stations

Fields

GET_GASSTATIONS_INTERVAL

```
private static final int GET_GASSTATIONS_INTERVAL
```

Constant value: **180**

GET_GASSTATION_INFORMATION_INTERVAL

```
private static final int GET_GASSTATION_INFORMATION_INTERVAL
```

Constant value: **600**

Constructors

GasStationManager

```
public GasStationManager()
```

Methods

getRefreshInterval

```
public int getRefreshInterval(GasStationManager.ACTIONS action)
```

Return the preferred refresh interval for an action

Parameters:
`action` - - refresh action

Returns:
preferred refresh interval (in seconds)

getGasStationsInRadius

```
public final ICancellable
getGasStationsInRadius(GasStationManager.GasStationsRadiusOptions requestParameters,
        GasStationManager.IGasStationResponseListener listener)
  throws InrixException
```

Retrieves gas stations around location in radius.

Parameters:

`listener` - Result listener.
`requestParameters`

Returns:

the Request object

getGasStationsInBox

```
public final ICancellable getGasStationsInBox(GasStationManager.GasStationsBoxOptions
requestParameters,
        GasStationManager.IGasStationResponseListener listener)
  throws InrixException
```

getGasStationInformation

```
public final ICancellable
getGasStationInformation(GasStationManager.SingleGasStationOptions requestParameters,
        GasStationManager.ISingleGasStationResponseListener listener)
  throws InrixException
```

com.inrix.sdk
Class GasStationManager.ACTIONS

```
java.lang.Object
   |-java.lang.Enum
      |-com.inrix.sdk.GasStationManager.ACTIONS
```

All Implemented Interfaces:
java.io.Serializable, java.lang.Comparable

---

public static final class **GasStationManager.ACTIONS**
extends java.lang.Enum

Fields

GET_GASSTATIONS

```
public static final com.inrix.sdk.GasStationManager.ACTIONS GET_GASSTATIONS
```

GET_GASSTATION_INFORMATION

```
public static final com.inrix.sdk.GasStationManager.ACTIONS GET_GASSTATION_INFORMATION
```

Constructors

GasStationManager.ACTIONS

```
private GasStationManager.ACTIONS()
```

Methods

values

```
public static GasStationManager.ACTIONS[] values()
```

---

valueOf

```
public static GasStationManager.ACTIONS valueOf(java.lang.String name)
```

com.inrix.sdk
Interface GasStationManager.IGasStationResponseListener

All Superinterfaces:
IDataResponseListener

---

public interface **GasStationManager.IGasStationResponseListener**
extends IDataResponseListener

Gas Stations result listener.

---

com.inrix.sdk
Interface GasStationManager.ISingleGasStationResponseListener

All Superinterfaces:
IDataResponseListener

---

public interface **GasStationManager.ISingleGasStationResponseListener**
extends IDataResponseListener

---

com.inrix.sdk
Class GasStationManager.GasStationsOptions

```
java.lang.Object
   |
   +-com.inrix.sdk.GasStationManager.GasStationsOptions
```

Direct Known Subclasses:
SingleGasStationOptions, GasStationsBoxOptions, GasStationsRadiusOptions

---

public static class **GasStationManager.GasStationsOptions**
extends java.lang.Object

Fields

OUTPUT_FIELDS_ALL

```
public static final int OUTPUT_FIELDS_ALL
```

All the fields
Constant value: **65535**

OUTPUT_FIELDS_BRAND

```
public static final int OUTPUT_FIELDS_BRAND
```

gas station name or brand
Constant value: **1**

OUTPUT_FIELDS_LOCATION

```
public static final int OUTPUT_FIELDS_LOCATION
```

the latitude and longitude of the gas station
Constant value: **2**

OUTPUT_FIELDS_ADDRESS

```
public static final int OUTPUT_FIELDS_ADDRESS
```

the address of the gas station
Constant value: **4**

OUTPUT_FIELDS_PRODUCTS

```
public static final int OUTPUT_FIELDS_PRODUCTS
```

Products sold in the gas station
Constant value: **8**

OUTPUT_FIELDS_CURRENCY_CODE

```
public static final int OUTPUT_FIELDS_CURRENCY_CODE
```

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billing currency code
Constant value: **16**

OUTPUT_FIELD_STRING_ALL

```
private static final java.lang.String OUTPUT_FIELD_STRING_ALL
```

Constant value: **All**

OUTPUT_FIELD_STRING_BRAND

```
private static final java.lang.String OUTPUT_FIELD_STRING_BRAND
```

Constant value: **Brand**

OUTPUT_FIELD_STRING_LOCATION

```
private static final java.lang.String OUTPUT_FIELD_STRING_LOCATION
```

Constant value: **LatLong**

OUTPUT_FIELD_STRING_ADDRESS

```
private static final java.lang.String OUTPUT_FIELD_STRING_ADDRESS
```

Constant value: **Address**

OUTPUT_FIELD_STRING_PRODUCTS

```
private static final java.lang.String OUTPUT_FIELD_STRING_PRODUCTS
```

Constant value: **Products**

OUTPUT_FIELD_STRING_CURRENCY_CODE

```
private static final java.lang.String OUTPUT_FIELD_STRING_CURRENCY_CODE
```

Constant value: **CurrencyCode**

PRODUCT_TYPE_ALL

```
public static final int PRODUCT_TYPE_ALL
```

All types of fuels
Constant value: **65535**

PRODUCT_TYPE_BIODIESEL

```
public static final int PRODUCT_TYPE_BIODIESEL
```

A fuel used in diesel engines, and made of vegetable oil or animal fat
Constant value: **1**

(continued from last page)

PRODUCT_TYPE_DIESEL

```
public static final int PRODUCT_TYPE_DIESEL
```

Diesel fuel
Constant value: **2**

PRODUCT_TYPE_DIESEL_PLUS

```
public static final int PRODUCT_TYPE_DIESEL_PLUS
```

A diesel fuel with special additives to improve performance
Constant value: **4**

PRODUCT_TYPE_DIESEL_TRUCK

```
public static final int PRODUCT_TYPE_DIESEL_TRUCK
```

A diesel fuel used by trucks
Constant value: **8**

PRODUCT_TYPE_LPG

```
public static final int PRODUCT_TYPE_LPG
```

LPG (liquid petroleum gas, usually propane, also called Autogas)
Constant value: **16**

PRODUCT_TYPE_METHANE

```
public static final int PRODUCT_TYPE_METHANE
```

Natural gas (also called Compressed Natural Gas, or CNG)
Constant value: **32**

PRODUCT_TYPE_GASOLINE_REGULAR

```
public static final int PRODUCT_TYPE_GASOLINE_REGULAR
```

Regular grade gasoline
Constant value: **64**

PRODUCT_TYPE_GASOLINE_MIDGRADE

```
public static final int PRODUCT_TYPE_GASOLINE_MIDGRADE
```

Middle grade gasoline
Constant value: **128**

PRODUCT_TYPE_GASOLINE_PREMIUM

```
public static final int PRODUCT_TYPE_GASOLINE_PREMIUM
```

Premium grade gasoline
Constant value: **256**

PRODUCT_TYPE_GASOLINE_E85

```
public static final int PRODUCT_TYPE_GASOLINE_E85
```

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E85 Ethanol/gasoline mixture
Constant value: **512**

PRODUCT_TYPE_GASOLINE_NORMAL

`public static final int` **PRODUCT_TYPE_GASOLINE_NORMAL**

Leaded gasoline
Constant value: **1024**

PRODUCT_TYPE_GASOLINE_SP92

`public static final int` **PRODUCT_TYPE_GASOLINE_SP92**

Unleaded gasoline, with a 92 octane rating
Constant value: **2048**

PRODUCT_TYPE_GASOLINE_SP95

`public static final int` **PRODUCT_TYPE_GASOLINE_SP95**

Unleaded gasoline, with a 95 octane rating
Constant value: **4096**

PRODUCT_TYPE_GASOLINE_SP95_E10

`public static final int` **PRODUCT_TYPE_GASOLINE_SP95_E10**

Unleaded gasoline, with a 95 octane rating and 10% ethanol
Constant value: **8192**

PRODUCT_TYPE_GASOLINE_SP98

`public static final int` **PRODUCT_TYPE_GASOLINE_SP98**

Unleaded gasoline, with a 98 octane rating
Constant value: **16384**

PRODUCT_TYPE_STRING_BIODIESEL

`private static final java.lang.String` **PRODUCT_TYPE_STRING_BIODIESEL**

Constant value: **biodiesel**

PRODUCT_TYPE_STRING_DIESEL

`private static final java.lang.String` **PRODUCT_TYPE_STRING_DIESEL**

Constant value: **Diesel**

PRODUCT_TYPE_STRING_DIESEL_PLUS

`private static final java.lang.String` **PRODUCT_TYPE_STRING_DIESEL_PLUS**

Constant value: **Dieselplus**

PRODUCT_TYPE_STRING_DIESEL_TRUCK

```
private static final java.lang.String PRODUCT_TYPE_STRING_DIESEL_TRUCK
```

Constant value: **truckdiesel**

PRODUCT_TYPE_STRING_LPG

```
private static final java.lang.String PRODUCT_TYPE_STRING_LPG
```

Constant value: **LPG**

PRODUCT_TYPE_STRING_METHANE

```
private static final java.lang.String PRODUCT_TYPE_STRING_METHANE
```

Constant value: **methane**

PRODUCT_TYPE_STRING_GASOLINE_REGULAR

```
private static final java.lang.String PRODUCT_TYPE_STRING_GASOLINE_REGULAR
```

Constant value: **Regular**

PRODUCT_TYPE_STRING_GASOLINE_MIDGRADE

```
private static final java.lang.String PRODUCT_TYPE_STRING_GASOLINE_MIDGRADE
```

Constant value: **MidGrade**

PRODUCT_TYPE_STRING_GASOLINE_PREMIUM

```
private static final java.lang.String PRODUCT_TYPE_STRING_GASOLINE_PREMIUM
```

Constant value: **Premium**

PRODUCT_TYPE_STRING_GASOLINE_E85

```
private static final java.lang.String PRODUCT_TYPE_STRING_GASOLINE_E85
```

Constant value: **E85**

PRODUCT_TYPE_STRING_GASOLINE_NORMAL

```
private static final java.lang.String PRODUCT_TYPE_STRING_GASOLINE_NORMAL
```

Constant value: **normal**

(continued from last page)

PRODUCT_TYPE_STRING_GASOLINE_SP92

```
private static final java.lang.String PRODUCT_TYPE_STRING_GASOLINE_SP92
```

Constant value: **SP92**

PRODUCT_TYPE_STRING_GASOLINE_SP95

```
private static final java.lang.String PRODUCT_TYPE_STRING_GASOLINE_SP95
```

Constant value: **SP95**

PRODUCT_TYPE_STRING_GASOLINE_SP95_E10

```
private static final java.lang.String PRODUCT_TYPE_STRING_GASOLINE_SP95_E10
```

Constant value: **SP95-E10**

PRODUCT_TYPE_STRING_GASOLINE_SP98

```
private static final java.lang.String PRODUCT_TYPE_STRING_GASOLINE_SP98
```

Constant value: **SP98**

outputFields

```
private int outputFields
```

Output fields requested in this request

productTypes

```
private int productTypes
```

Product Types requested in this request

Constructors

GasStationManager.GasStationsOptions

```
public GasStationManager.GasStationsOptions()
```

Default Constructor initializes the output fields requested and products requested to ALL

GasStationManager.GasStationsOptions

```
public GasStationManager.GasStationsOptions(int outputFields,
                                            int productTypes)
```

Constructor with the outputFields and product types

Parameters:

`outputFields`
`productTypes`

(continued from last page)

Methods

setOutputFields

```
public void setOutputFields(int outputFields)
```

Set the current output fields for this request options

Parameters:
`outputFields`

---

getOutputFields

```
public int getOutputFields()
```

get the current output fields for this request options

Returns:
- The output fields (as a bit field)

---

setProductTypes

```
public void setProductTypes(int productTypes)
```

Set the current product types for this request options

Returns:
- The product types requested (as a bit field)

---

getProductTypes

```
public int getProductTypes()
```

get the current product types for this request options

Returns:
- The product types requested (as a bit field)

---

getOutputFieldsString

```
public java.lang.String getOutputFieldsString()
```

Method to get the string representation of the output fields requested

Returns:
- the concatenated output fields as requested by the options specified

---

getProductTypesString

```
public java.lang.String getProductTypesString()
```

Method to get the string representation of the product types requested

Returns:
- the concatenated product types as requested by the product types specified

com.inrix.sdk
Class GasStationManager.GasStationsRadiusOptions

```
java.lang.Object
   ┗-com.inrix.sdk.GasStationManager.GasStationsOptions
      ┗-com.inrix.sdk.GasStationManager.GasStationsRadiusOptions
```

public static class **GasStationManager.GasStationsRadiusOptions**
extends GasStationManager.GasStationsOptions

Request parameters to get gas stations in a radius

Fields

center

```
private com.inrix.sdk.model.GeoPoint center
```

radius

```
private double radius
```

metric

```
private boolean metric
```

Constructors

GasStationManager.GasStationsRadiusOptions

```
public GasStationManager.GasStationsRadiusOptions(GeoPoint center,
                                                  double radius,
                                                  boolean metric)
```

Default constructor

Parameters:

`center` - - the center of the region where to the gas stations from
`radius` - - the radius of the region where to the gas stations from
`metric` - - whether radius is in meters or miles (true - the radius will be interpreted as meters, false - the radius will be interpreted as miles

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GasStationManager.GasStationsRadiusOptions

```
public GasStationManager.GasStationsRadiusOptions(GeoPoint center,
                                                  double radius,
                                                  boolean metric,
                                                  int outputFields,
                                                  int productTypes)
```

Parameters:

`center` - - the center of the region where to the gas stations from
`radius` - - the radius of the region where to the gas stations from
`metric` - - whether radius is in meters or miles (true - the radius will be interpreted as meters, false - the radius will be interpreted as miles
`outputFields` - - Output options for this request
`productTypes` - - product typed for this request

Methods

setCenter

```
public void setCenter(GeoPoint center)
```

Set the center of this request

Parameters:

`center` - The center of the region in which to get data. Northern latitudes are positive and southern latitudes are negative. Eastern hemisphere longitudes are positive and western hemisphere longitudes are negative. Longitudes in North America are negative. The latitude and longitude values are expressed using the WGS 84 datum.

---

getCenter

```
public GeoPoint getCenter()
```

Get the center of this request

Parameters:

`center`

---

setRadius

```
public void setRadius(double radius)
```

Set the radius of this request

Parameters:

`radius` - The radius of the circular bounding area from which to return data. Any features that are fully or partially enclosed within the bounding area are selected. If the Units parameter is set to Metric, the radius is measured in meters; if Units is set to US (the default), the radius is measured in miles.

---

getRadius

```
public double getRadius()
```

Get the radius of this request

---

isCenterValid

```
public boolean isCenterValid()
```

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Method to verify if the center provided is a valid geo point

Returns:

- true if the center is valid - false if the center is invalid

isRadiusValid

```
public boolean isRadiusValid()
```

Method to verify if the radius is valid

Returns:

- true if the radius is valid (positive radii) - false if the radius is not valid (negative radii)

setMetric

```
public void setMetric(boolean metric)
```

getMetric

```
public boolean getMetric()
```

com.inrix.sdk
Class GasStationManager.GasStationsBoxOptions

```
java.lang.Object
   ┗-com.inrix.sdk.GasStationManager.GasStationsOptions
      ┗-com.inrix.sdk.GasStationManager.GasStationsBoxOptions
```

public static class **GasStationManager.GasStationsBoxOptions**
extends GasStationManager.GasStationsOptions

Request parameters to get gas stations in a radius

Fields

boxStart

```
private com.inrix.sdk.model.GeoPoint boxStart
```

boxEnd

```
private com.inrix.sdk.model.GeoPoint boxEnd
```

Constructors

GasStationManager.GasStationsBoxOptions

```
public GasStationManager.GasStationsBoxOptions(GeoPoint boxStart,
                                               GeoPoint boxEnd)
```

Default Constructor

Parameters:

`boxStart` - - The start latitude and longitude of the \"box\" from which to get the gas stations
`boxEnd` - - The end latitude and longitude of the \"box\" from which to get the gas stations

GasStationManager.GasStationsBoxOptions

```
public GasStationManager.GasStationsBoxOptions(GeoPoint boxStart,
                                               GeoPoint boxEnd,
                                               int outputFields,
                                               int productTypes)
```

Constructor with output fields and output options

Parameters:

`boxStart` - - The start latitude and longitude of the \"box\" from which to get the gas stations
`boxEnd` - - The end latitude and longitude of the \"box\" from which to get the gas stations
`outputFields` - - Output options for this request
`productTypes` - - product typed for this request

Methods

setBoxStart

`public void setBoxStart(GeoPoint boxStart)`

Set the start of the region of this request

Parameters:

`boxStart` - The start of the region in which to get data. Northern latitudes are positive and southern latitudes are negative. Eastern hemisphere longitudes are positive and western hemisphere longitudes are negative. Longitudes in North America are negative. The latitude and longitude values are expressed using the WGS 84 datum.

---

getBoxStart

`public GeoPoint getBoxStart()`

Get the start of the region for this request

---

setBoxEnd

`public void setBoxEnd(GeoPoint boxEnd)`

Set the end of the region of this request

Parameters:

`boxEnd` - The end of the region in which to get data. Northern latitudes are positive and southern latitudes are negative. Eastern hemisphere longitudes are positive and western hemisphere longitudes are negative. Longitudes in North America are negative. The latitude and longitude values are expressed using the WGS 84 datum.

---

getBoxEnd

`public GeoPoint getBoxEnd()`

Get the end of the region for this request

---

isStartValid

`public boolean isStartValid()`

Method to verify if the start provided is a valid geo point

Returns:

- true if the start is valid - false if the start is invalid

---

isEndValid

`public boolean isEndValid()`

Method to verify if the end provided is a valid geo point

Returns:

- true if the end is valid - false if the end is invalid

com.inrix.sdk
Class GasStationManager.SingleGasStationOptions

```
java.lang.Object
   ┗-com.inrix.sdk.GasStationManager.GasStationsOptions
      ┗-com.inrix.sdk.GasStationManager.SingleGasStationOptions
```

public static class **GasStationManager.SingleGasStationOptions**
extends GasStationManager.GasStationsOptions

Fields

gasStationID

```
private java.lang.String gasStationID
```

Constructors

GasStationManager.SingleGasStationOptions

```
public GasStationManager.SingleGasStationOptions(GasStation gasStation)
```

GasStationManager.SingleGasStationOptions

```
public GasStationManager.SingleGasStationOptions(GasStation gasStation,
                                                 int outputFields,
                                                 int productTypes)
```

Methods

getStationID

```
public java.lang.String getStationID()
```

initGasStationID

```
private void initGasStationID(GasStation gasStation)
```

isGasStationIDValid

```
public boolean isGasStationIDValid()
```

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com.inrix.sdk
Interface ICancellable

All Known Implementing Classes:
IncidentAlert, LoginProcessor

public interface **ICancellable**
extends

Implemented by the cancelable actions.

Methods

cancel

```
public void cancel()
```

Cancel current action.

com.inrix.sdk
Interface IDataResponseListener

All Subinterfaces:
IIncidentsAlertListener, ISingleGasStationResponseListener, IGasStationResponseListener, IIncidentsResponseListener, ILocationDeleteResponseListener, ILastLocationsUpdateResponseListener, ILocationSaveResponseListener, ILocationsGetResponseListener, IParkingResponseListener, IRouteResponseListener, ITravelTimeResponseListener, ILoginOperationResponseListener

---

interface **IDataResponseListener**
extends

This class is the base class of response listeners. Specific response listeners should be derived from this class
Parameters:
T

Methods

onResult

```
public void onResult(java.lang.Object data)
```

Method that will be called when the request was successful and the response is good

Parameters:
`data` - Result data

---

onError

```
public void onError(Error error)
```

Method that will be called when the request was not successful

Parameters:
`error` - `Error` Object containing information about the error such as the server error id and error message

com.inrix.sdk
Class IncidentAlert

```
java.lang.Object
   |
   +-com.inrix.sdk.IncidentAlert
```

All Implemented Interfaces:
IIncidentsResponseListener, ICancellable

---

public class **IncidentAlert**
extends java.lang.Object
implements ICancellable, IIncidentsResponseListener

Fields

listener

```
private com.inrix.sdk.AlertsManager.IIncidentsAlertListener listener
```

---

alertInterval

```
private int alertInterval
```

---

speedFactor

```
private float speedFactor
```

---

isInProgress

```
private boolean isInProgress
```

---

currentRequest

```
private com.inrix.sdk.ICancellable currentRequest
```

---

requestParams

```
private com.inrix.sdk.IncidentsManager.IncidentRadiusOptions requestParams
```

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incidentManager

```
private com.inrix.sdk.IncidentsManager incidentManager
```

filter

```
private com.inrix.sdk.AlertsManager.IFilter filter
```

MIN_SPEED_ALLOWED_MPH

```
private final float MIN_SPEED_ALLOWED_MPH
```

Constant value: **10.0**

timer

```
private java.util.Timer timer
```

Constructors

IncidentAlert

```
IncidentAlert(AlertsManager.IIncidentsAlertListener listener,
              int alertInterval,
              float speedFactor,
              AlertsManager.IFilter filter)
```

Methods

cancel

```
public void cancel()
```

resetUpdateTimer

```
private void resetUpdateTimer()
```

requestIncidents

```
private void requestIncidents()
```

(continued from last page)

generateRadiusOptions

```
private IncidentsManager.IncidentRadiusOptions generateRadiusOptions()
```

onResult

```
public void onResult(java.util.List data)
```

filterData

```
private java.util.List filterData(java.util.List data)
```

getLastRequestedDistance

```
public double getLastRequestedDistance()
```

Returns last requested distance in miles. This value may vary based on the speed at the moment of request. See `AlertsManager.IncidentAlertOptions.setSpeedFactor(float)`

Returns:

last requested distance in miles

onError

```
public void onError(Error error)
```

com.inrix.sdk
Class IncidentsManager

```
java.lang.Object
   |
   +-com.inrix.sdk.IncidentsManager
```

All Implemented Interfaces:
IRefreshableActions

---

public final class **IncidentsManager**
extends java.lang.Object
implements IRefreshableActions

Represents an incident manager, that can be used to retrieve and manage incidents.

Fields

CALLBACK_MISSING

```
private static final java.lang.String CALLBACK_MISSING
```

Constant value: **Callback is missing**

REQUEST_PARAMS_MISSING

```
private static final java.lang.String REQUEST_PARAMS_MISSING
```

Constant value: **Request parameters are missing**

INCIDENT_TYPE_CONSTRUCTION

```
public static final int INCIDENT_TYPE_CONSTRUCTION
```

Constant value: **1**

INCIDENT_TYPE_EVENT

```
public static final int INCIDENT_TYPE_EVENT
```

Constant value: **2**

INCIDENT_TYPE_FLOW

```
public static final int INCIDENT_TYPE_FLOW
```

Constant value: **3**

(continued from last page)

INCIDENT_TYPE_INCIDENT

`public static final int` **`INCIDENT_TYPE_INCIDENT`**

Constant value: **4**

INCIDENT_TYPE_POLICE

`public static final int` **`INCIDENT_TYPE_POLICE`**

Constant value: **6**

INCIDENT_TYPE_HAZARD

`public static final int` **`INCIDENT_TYPE_HAZARD`**

Constant value: **8**

INCIDENT_OUTPUT_FIELDS_ID

`public static final int` **`INCIDENT_OUTPUT_FIELDS_ID`**

The unique identifier of an incident.
Constant value: **1**

INCIDENT_OUTPUT_FIELDS_VERSION

`public static final int` **`INCIDENT_OUTPUT_FIELDS_VERSION`**

The version number of the incident report, incremented each time an incident report is updated.
Constant value: **2**

INCIDENT_OUTPUT_FIELDS_TYPE

`public static final int` **`INCIDENT_OUTPUT_FIELDS_TYPE`**

The type of the incident (Incidents, Construction, Events, Flow, Area, or Weather). Incidents can be determined from the Alert-C event code, Construction indicates the presence of road construction, Events can be weather-related or a scheduled sporting/public event, and Flow indicates a blocking incident.
Constant value: **4**

INCIDENT_OUTPUT_FIELDS_SEVERITY

`public static final int` **`INCIDENT_OUTPUT_FIELDS_SEVERITY`**

The severity of the incident. This value can be in the range of 0-4, with 4 indicating the highest severity.
Constant value: **8**

INCIDENT_OUTPUT_FIELDS_EVENT_CODE

`public static final int` **`INCIDENT_OUTPUT_FIELDS_EVENT_CODE`**

The event code of the incident. These are standard Alert-C event codes.
Constant value: **16**

(continued from last page)

INCIDENT_OUTPUT_FIELDS_LATLONG

`public static final int` **`INCIDENT_OUTPUT_FIELDS_LATLONG`**

The latitude and longitude of the incident.
Constant value: **32**

INCIDENT_OUTPUT_FIELDS_IMPACTING

`public static final int` **`INCIDENT_OUTPUT_FIELDS_IMPACTING`**

Whether the incident impacts traffic flow. This field is set if the appearance of the incident changes the traffic flow below a certain percentage from that which is normally expected for the given segment of road at that time, given the current conditions.
Constant value: **64**

INCIDENT_OUTPUT_FIELDS_STARTTIME

`public static final int` **`INCIDENT_OUTPUT_FIELDS_STARTTIME`**

The starting time of the incident.
Constant value: **128**

INCIDENT_OUTPUT_FIELDS_ENDTIME

`public static final int` **`INCIDENT_OUTPUT_FIELDS_ENDTIME`**

The ending time of the incident.
Constant value: **256**

INCIDENT_OUTPUT_FIELDS_DELAY_IMPACT

`public static final int` **`INCIDENT_OUTPUT_FIELDS_DELAY_IMPACT`**

Provide the delay in minutes versus typical conditions and versus free flow conditions.
Constant value: **512**

INCIDENT_OUTPUT_FIELDS_AREA

`public static final int` **`INCIDENT_OUTPUT_FIELDS_AREA`**

The points in a polygon that describes a weather incident that is returned, in GML format. For more information about GML format, see http://www.opengeospatial.org/standards/gml.
Constant value: **1024**

INCIDENT_OUTPUT_FIELDS_RDS

`public static final int` **`INCIDENT_OUTPUT_FIELDS_RDS`**

The Radio Data System data.
Constant value: **2048**

INCIDENT_OUTPUT_FIELDS_ALL

`public static final int` **`INCIDENT_OUTPUT_FIELDS_ALL`**

This option returns all of the options available.
Constant value: **65535**

(continued from last page)

INCIDENT_RESULT_TYPE_INCIDENTS

`public static final int` **`INCIDENT_RESULT_TYPE_INCIDENTS`**

This option returns all unusual incidents that may slow down traffic such as a car accident.
Constant value: **`1`**

INCIDENT_RESULT_TYPE_CONSTRUCTION

`public static final int` **`INCIDENT_RESULT_TYPE_CONSTRUCTION`**

This option returns only construction incidents.
Constant value: **`2`**

INCIDENT_RESULT_TYPE_EVENTS

`public static final int` **`INCIDENT_RESULT_TYPE_EVENTS`**

This option returns unusual events slated for the area such as a major sporting event.
Constant value: **`4`**

INCIDENT_RESULT_TYPE_FLOW

`public static final int` **`INCIDENT_RESULT_TYPE_FLOW`**

This option returns reports about the slowing down of traffic on your route.
Constant value: **`8`**

INCIDENT_RESULT_TYPE_POLICE

`public static final int` **`INCIDENT_RESULT_TYPE_POLICE`**

This option returns reports about the police presence.
Constant value: **`16`**

INCIDENT_RESULT_TYPE_WEATHER

`public static final int` **`INCIDENT_RESULT_TYPE_WEATHER`**

This option returns unusual weather incidents that could alter traffic speed.
Constant value: **`32`**

INCIDENT_RESULT_TYPE_ALL

`public static final int` **`INCIDENT_RESULT_TYPE_ALL`**

Selecting this option returns all incidents.
Constant value: **`65535`**

INCIDENT_SOURCE_INRIXONLY

`public static final int` **`INCIDENT_SOURCE_INRIXONLY`**

Return incidents from non-commercial sources.
Constant value: **`1`**

INCIDENT_SOURCE_COMMUNITY

`public static final int` **`INCIDENT_SOURCE_COMMUNITY`**

(continued from last page)

Return incidents from community sources.
Constant value: **2**

INCIDENT_SOURCE_ALL

`public static final int` **`INCIDENT_SOURCE_ALL`**

Return incidents from all sources.
Constant value: **255**

UNIT_ENGLISH

`public static final int` **`UNIT_ENGLISH`**

Miles
Constant value: **0**

UNIT_METRIC

`public static final int` **`UNIT_METRIC`**

Kilometers
Constant value: **1**

GET_INCIDENTS_INTERVAL

`private static final int` **`GET_INCIDENTS_INTERVAL`**

Constant value: **180**

Constructors

IncidentsManager

`public` **`IncidentsManager`**`()`

Methods

getRefreshInterval

`public int` **`getRefreshInterval`**`(IncidentsManager.ACTIONS action)`

Return the preferred refresh interval for an action

Parameters:
`action` - - refresh action

Returns:
preferred refresh interval (in seconds)

(continued from last page)

getIncidentsInBox

```
public final ICancellable
getIncidentsInBox(IncidentsManager.IIncidentsResponseListener listener,
        IncidentsManager.IncidentBoxOptions requestParams)
  throws java.security.InvalidParameterException
```

Get incident in bounding box

Parameters:

`listener` - - response listener

`requestParams` - - request params

Returns:

---

getIncidentsInRadius

```
public final ICancellable
getIncidentsInRadius(IncidentsManager.IIncidentsResponseListener listener,
        IncidentsManager.IncidentRadiusOptions requestParams)
  throws java.security.InvalidParameterException
```

Get incident in radius

Parameters:

`listener` - - response listener

`requestParams` - - request params

Returns:

---

getIncidentOutputFieldsString

```
private final java.lang.String getIncidentOutputFieldsString(int fieldsFlag)
```

Gets the incident output fields as a string.

Parameters:

`fieldsFlag` - the fields flag

Returns:

the incident output fields string

---

getIncidentResultTypeAsString

```
private final java.lang.String getIncidentResultTypeAsString(int typeFlags)
```

Gets the incident result type as string.

Parameters:

`typeFlags` - the type flags

Returns:

the incident result type as string

---

getIncidentSourceAsString

```
private final java.lang.String getIncidentSourceAsString(int sourceFlags)
```

(continued from last page)

Gets the incident source as string.

Parameters:

`sourceFlags` - the source flags

Returns:

the incident source as string

com.inrix.sdk
Class IncidentsManager.ACTIONS

```
java.lang.Object
   |-java.lang.Enum
      |-com.inrix.sdk.IncidentsManager.ACTIONS
```

All Implemented Interfaces:
java.io.Serializable, java.lang.Comparable

---

public static final class **IncidentsManager.ACTIONS**
extends java.lang.Enum

Fields

GET_INCIDENTS

```
public static final com.inrix.sdk.IncidentsManager.ACTIONS GET_INCIDENTS
```

Constructors

IncidentsManager.ACTIONS

```
private IncidentsManager.ACTIONS()
```

Methods

values

```
public static IncidentsManager.ACTIONS[] values()
```

---

valueOf

```
public static IncidentsManager.ACTIONS valueOf(java.lang.String name)
```

com.inrix.sdk
Class IncidentsManager.IncidentOptions

```
java.lang.Object
   |
   +-com.inrix.sdk.IncidentsManager.IncidentOptions
```

Direct Known Subclasses:
IncidentRadiusOptions, IncidentBoxOptions

---

public static abstract class **IncidentsManager.IncidentOptions**
extends java.lang.Object

Fields

incidentType

```
private int incidentType
```

---

incidentSource

```
private int incidentSource
```

---

incidentOutputFields

```
private int incidentOutputFields
```

---

severity

```
private java.lang.Integer severity
```

Constructors

IncidentsManager.IncidentOptions

```
public IncidentsManager.IncidentOptions()
```

Methods

getIncidentType

```
int getIncidentType()
```

(continued from last page)

setIncidentType

`public IncidentsManager.IncidentOptions setIncidentType(int incidentType)`

Type of incidents to request. The default is "ALL" (see `IncidentsManager.INCIDENT_RESULT_TYPE_ALL`). Multiple types can be specified

Parameters:

`incidentType` - - incident type set of flags

Returns:

getIncidentSource

`int getIncidentSource()`

setIncidentSource

`public IncidentsManager.IncidentOptions setIncidentSource(int incidentSource)`

Set requested source of the incidents

Parameters:

`incidentsSource` - - A value of "INRIXonly" specifies that incidents are compiled from non-commercial sources, such as flow incidents that are generated programmatically from Inrix traffic information or planned construction incidents. A value of "Community" specifies that incidents come from community sources, such as incidents submitted through mobile devices. The default is "ALL." (`IncidentsManager.INCIDENT_SOURCE_ALL`)

Returns:

getIncidentOutputFields

`int getIncidentOutputFields()`

setIncidentOutputFields

`public IncidentsManager.IncidentOptions setIncidentOutputFields(int incidentOutputFields)`

Set response output fields

Parameters:

`incidentOutputFields` - The incident fields to output. Multiple fields can be specified. The default is all (`IncidentsManager.INCIDENT_OUTPUT_FIELDS_ALL`)

getSeverity

`java.lang.Integer[] getSeverity()`

(continued from last page)

setSeverity

```
public IncidentsManager.IncidentOptions setSeverity(java.lang.Integer[] severity)
```

Filters incident reports based on severity level. This value can be in the range of 0-4, with 4 indicating the highest severity. Multiple severity values can be specified. The default is "ALL"

Parameters:

`severity`

Returns:

com.inrix.sdk
Class IncidentsManager.IncidentBoxOptions

```
java.lang.Object
   ┗-com.inrix.sdk.IncidentsManager.IncidentOptions
      ┗-com.inrix.sdk.IncidentsManager.IncidentBoxOptions
```

public static class **IncidentsManager.IncidentBoxOptions**
extends IncidentsManager.IncidentOptions

Fields

corner1

```
private com.inrix.sdk.model.GeoPoint corner1
```

corner2

```
private com.inrix.sdk.model.GeoPoint corner2
```

Constructors

IncidentsManager.IncidentBoxOptions

```
public IncidentsManager.IncidentBoxOptions(GeoPoint corner1,
                                           GeoPoint corner2)
```

Parameters:

`corner1` - - First corner of the bounding rectangle. The corner specified by the corner1 parameter can be any of the four corners of the bounding rectangle.
`corner2` - - The second corner of the region in which to get data. The corner2 parameter is the geometric opposite of corner1.

Methods

getCorner1

```
GeoPoint getCorner1()
```

setCorner1

```
public IncidentsManager.IncidentBoxOptions setCorner1(GeoPoint corner1)
```

(continued from last page)

First corner of the bounding rectangle. The corner specified by the corner1 parameter can be any of the four corners of the bounding rectangle.

Parameters:

`corner1`

Returns:

---

getCorner2

`GeoPoint` **`getCorner2`**`()`

---

setCorner2

`public IncidentsManager.IncidentBoxOptions` **`setCorner2`**`(GeoPoint corner2)`

The second corner of the region in which to get data. The corner2 parameter is the geometric opposite of corner1.

Parameters:

`corner2`

Returns:

com.inrix.sdk
Class IncidentsManager.IncidentRadiusOptions

```
java.lang.Object
   |-com.inrix.sdk.IncidentsManager.IncidentOptions
      |-com.inrix.sdk.IncidentsManager.IncidentRadiusOptions
```

public static class **IncidentsManager.IncidentRadiusOptions**
extends IncidentsManager.IncidentOptions

Fields

center

```
private com.inrix.sdk.model.GeoPoint center
```

radius

```
private double radius
```

units

```
private int units
```

Constructors

IncidentsManager.IncidentRadiusOptions

```
public IncidentsManager.IncidentRadiusOptions(GeoPoint center,
                                              double radius)
```

Methods

getCenter

```
GeoPoint getCenter()
```

setCenter

```
public IncidentsManager.IncidentRadiusOptions setCenter(GeoPoint center)
```

(continued from last page)

First corner of the bounding rectangle. The corner specified by the corner1 parameter can be any of the four corners of the bounding rectangle.

Parameters:
`corner1`

Returns:

---

setRadius

`public IncidentsManager.IncidentRadiusOptions setRadius(double radius)`

Set radius in miles

Parameters:
`radius`

Returns:

---

getRadius

`double getRadius()`

Get radius

Returns:
radius in miles/kilometers (depending on Units param)

---

getUnits

`int getUnits()`

---

setUnits

`public void setUnits(int units)`

Set units (see `IncidentsManager.UNIT_ENGLISH`)

Parameters:
`units`

com.inrix.sdk
Interface IncidentsManager.IIncidentsResponseListener

All Superinterfaces:
IDataResponseListener

All Known Implementing Classes:
IncidentAlert

---

public interface **IncidentsManager.IIncidentsResponseListener**
extends IDataResponseListener

Incidents result listener.

---

com.inrix.sdk
Class IncidentUtils

```
java.lang.Object
   |
   +-com.inrix.sdk.IncidentUtils
```

public class **IncidentUtils**
extends java.lang.Object

Fields

roadClosureEventCodes

```
private static java.util.HashSet roadClosureEventCodes
```

Constructors

IncidentUtils

```
public IncidentUtils()
```

Methods

isRoadClosure

```
public static boolean isRoadClosure(java.lang.Integer eventCode)
```

com.inrix.sdk
Class Inrix

```
java.lang.Object
   |
   +-com.inrix.sdk.Inrix
```

public final class **Inrix**
extends java.lang.Object

Fields

NO_VALUE

```
public static final int NO_VALUE
```

Indicates that no value was assigned. Constant: .
Constant value: **-2147483648**

instance

```
private static com.inrix.sdk.Inrix instance
```

config

```
private static com.inrix.sdk.InrixConfig config
```

isInitialized

```
private static boolean isInitialized
```

Constructors

Inrix

```
public Inrix()
```

Methods

initialize

```
public static void initialize(Context context)
```

Initialize all necessary process and load configuration

(continued from last page)

Parameters:
`context` - the context

initialize

```
public static void initialize(Context context,
         InrixConfig configuration)
```

Initialize.

Parameters:
`context` - the context
`configuration` - the configuration

initialize

```
public static void initialize(Context context,
         java.lang.String strConfigFileName)
  throws java.security.InvalidParameterException
```

Initialize with the configuration file

Parameters:
`context`
`strConfigFileName`

Throws:
`InvalidParameterException`

shutdown

```
public static void shutdown(Context context)
```

Shutdown existing Inrix instance, clear all user related data

Parameters:
`context` - the context

getInstance

```
public static Inrix getInstance()
```

setLocationSource

```
void setLocationSource(IGeolocationSource locationSource)
```

Set location provider and activate it. INRIX has built in geolocation tracking module which starts as soon as SDK gets initialized. If you want to provide your own location source - INRIX geolocation tracker will be disabled and replaced with the one specified via this function. All previously set location sources will be deactivated

Parameters:
`locationSource`

startGeoLocationTracking

```
public void startGeoLocationTracking()
```

(continued from last page)

Activate location source specified via `setLocationSource(IGeolocationSource)`

stopGeoLocationTracking

`public void stopGeoLocationTracking()`

Deactivate location source specified via `setLocationSource(IGeolocationSource)`

getConfiguration

`public InrixConfig getConfiguration()`

Gets the configuration for current Inrix instance.

Returns:
the configuration information

validate

`private static void validate()`

com.inrix.sdk
Class InrixConfig

```
java.lang.Object
   ┗-com.inrix.sdk.Settings
      ┗-com.inrix.sdk.InrixConfig
```

public class **InrixConfig**
extends Settings

The Class InrixConfig.

Fields

vendorId

```
private java.lang.String vendorId
```

vendorToken

```
private java.lang.String vendorToken
```

csApiUrl

```
private java.lang.String csApiUrl
```

csSecureApiUrl

```
private java.lang.String csSecureApiUrl
```

mosiURL

```
private java.lang.String mosiURL
```

logLevel

```
private int logLevel
```

(continued from last page)

version

```
private java.lang.String version
```

ERROR_CONFIG_FILE_NAME

```
private static final java.lang.String ERROR_CONFIG_FILE_NAME
```

Constant value: **Config file name is null or empty**

ERROR_NULL_CONTEXT

```
private static final java.lang.String ERROR_NULL_CONTEXT
```

Constant value: **Context provided is null**

Constructors

InrixConfig

```
public InrixConfig()
```

Methods

loadDefaultOptions

```
public static InrixConfig loadDefaultOptions(Context paramContext)
```

Load default options.

Parameters:

`paramContext` - the param context

Returns:

the inrix config

---

loadOptions

```
public static InrixConfig loadOptions(Context paramContext,
         java.lang.String configFileName)
  throws java.security.InvalidParameterException
```

Load specific options. This function loads the configuration from the specified file. The file needs to contain the following information. The information needs to be provided by INRIX. And the file needs to be present in the assets folder of the application (APK) vendorId = xxxxxxxxx vendorToken = xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx apiURL = http://xxxx.inrix.com/MobileGateway/mobile.ashx mosiURL = http://yyyy.zzzzz.net/api/v1/ logLevel = 2

Parameters:

`paramContext` - the param context
`configFileName`

Returns:

the inrix config

getDefaultPropertiesFilename

```
public java.lang.String getDefaultPropertiesFilename()
```

isValid

```
public boolean isValid()
```

getVendorToken

```
public java.lang.String getVendorToken()
```

Gets the vendor token.

Returns:
the vendor token

setVendorToken

```
public void setVendorToken(java.lang.String localVendorToken)
```

Sets the vendor token.

Returns:
the vendor token

getVendorId

```
public java.lang.String getVendorId()
```

Gets the vendor id.

Returns:
the vendor id

setVendorId

```
public void setVendorId(java.lang.String localVendorId)
```

Sets the vendor id.

Returns:
the vendor id

getCsApiUrl

```
public java.lang.String getCsApiUrl()
```

Gets the API URL.

Returns:
the CS main API URL

setCsApiUrl

```
public void setCsApiUrl(java.lang.String localCsApiUrl)
```

Sets the API URL.

Returns:
the CS main API URL

getSecureCsApiUrl

```
public java.lang.String getSecureCsApiUrl()
```

Gets the secure API URL.

Returns:
the CS main API URL

getMosiApiUrl

```
public java.lang.String getMosiApiUrl()
```

Gets the MOsI API URL.

Returns:
the MOsI API URL.

getLogLevel

```
public int getLogLevel()
```

Gets the log level.

Returns:
the log level

getVersion

```
public java.lang.String getVersion()
```

Gets the version.

Returns:
the version

setVersion

```
public void setVersion(java.lang.String localVersion)
```

Sets the version.

Returns:
the version

com.inrix.sdk
Class InrixDebug

```
java.lang.Object
   |
   +-com.inrix.sdk.InrixDebug
```

public class **InrixDebug**
extends java.lang.Object

InrixDebug, debug related methods, logging

Fields

currentLoglevel

`static com.inrix.sdk.InrixDebug.LogType` **`currentLoglevel`**

Describe what type of information can be reported

Constructors

InrixDebug

`public` **`InrixDebug`**`()`

Methods

setLogLevel

`final static void` **`setLogLevel`**`(int level)`

Sets the log level, what type of information can be reported

Parameters:
`level` - the new log level

isOnEmulator

`public final static boolean` **`isOnEmulator`**`()`

Checks if its running on emulator.

Returns:
true, if its running on emulator; otherwise false.

LogD

`public static void` **`LogD`**`(java.lang.String msg)`

Send debug information.

(continued from last page)

Parameters:

`msg` - the message to be reported

LogD

```
public static void LogD(java.lang.String msg,
         java.lang.Throwable exception)
```

Send debug information.

Parameters:

`msg` - the message

`exception` - the exception

LogE

```
public static void LogE(java.lang.String msg)
```

Send error message.

Parameters:

`msg` - the message

LogE

```
public static void LogE(java.lang.String msg,
         java.lang.Throwable exception)
```

Send error message.

Parameters:

`msg` - the message

`exception` - the exception causing error

LogE

```
public static void LogE(java.lang.Throwable exception)
```

Send error message.

Parameters:

`exception` - the exception causing error

LogW

```
public static void LogW(java.lang.String msg)
```

Send warning message.

Parameters:

`msg` - the message

LogW

```
public static void LogW(java.lang.String msg,
         java.lang.Throwable exception)
```

Send warning message.

(continued from last page)

Parameters:
`msg` - the message
`exception` - the exception causing error

LogV

```
public static void LogV(java.lang.String msg)
```

Send verbose message.

Parameters:
`msg` - the message

LogV

```
public static void LogV(java.lang.Object[] objs)
```

Send verbose message.

Parameters:
`objs` - set ofS information to send

LogEvent

```
private static void LogEvent(java.lang.String msg,
         java.lang.Throwable exception,
         InrixDebug.LogType type)
```

Log event

Parameters:
`msg` - log message
`exception` - optional exception
`type` - log type

generateLogEntity

```
private static InrixDebug.LogEntry generateLogEntity(java.lang.String msg,
         InrixDebug.LogType type)
```

Create log entity. Log entity will contain all info regarding log including verbose message

Parameters:
`msg` - log message
`type` - log type

Returns:
LogEntity

canBeLogged

```
private static boolean canBeLogged(InrixDebug.LogType type)
```

Can send this message.

Parameters:
`type` - the type

Returns:

(continued from last page)

true, if successful

com.inrix.sdk
Class InrixDebug.LogType

```
java.lang.Object
   |
   +-java.lang.Enum
      |
      +-com.inrix.sdk.InrixDebug.LogType
```

All Implemented Interfaces:
java.io.Serializable, java.lang.Comparable

---

private static final class **InrixDebug.LogType**
extends java.lang.Enum

The Enumeration LogType, describe log entry type which type of information can be reported

---

Fields

Error

```
public static final com.inrix.sdk.InrixDebug.LogType Error
```

Warning

```
public static final com.inrix.sdk.InrixDebug.LogType Warning
```

Debug

```
public static final com.inrix.sdk.InrixDebug.LogType Debug
```

Verbose

```
public static final com.inrix.sdk.InrixDebug.LogType Verbose
```

Constructors

InrixDebug.LogType

```
private InrixDebug.LogType()
```

Methods

(continued from last page)

values

public static InrixDebug.LogType[] **values**()

---

valueOf

public static InrixDebug.LogType **valueOf**(java.lang.String name)

---

valueOf

public static InrixDebug.LogType **valueOf**(int level)

com.inrix.sdk
Class InrixDebug.LogEntry

```
java.lang.Object
   |
   +-com.inrix.sdk.InrixDebug.LogEntry
```

private static class **InrixDebug.LogEntry**
extends java.lang.Object

LogEntry contains extended version of message.

Fields

msg

`java.lang.String` **`msg`**

verboseMsg

`java.lang.String` **`verboseMsg`**

fileName

`java.lang.String` **`fileName`**

className

`java.lang.String` **`className`**

methodName

`java.lang.String` **`methodName`**

lineNum

`int` **`lineNum`**

Constructors

(continued from last page)

InrixDebug.LogEntry

```
private InrixDebug.LogEntry()
```

com.inrix.sdk
Class IntentFactory

```
java.lang.Object
   |
   +-com.inrix.sdk.IntentFactory
```

public final class **IntentFactory**
extends java.lang.Object

Constructors

IntentFactory

```
public IntentFactory()
```

Methods

openIncidentDetails

```
public final static void openIncidentDetails(Context context,
          Incident incidentItem)
  throws java.lang.Exception
```

Open incident details.

Parameters:

`context` - the context

com.inrix.sdk
Interface IRefreshableActions

All Known Implementing Classes:
AlertsManager, GasStationManager, IncidentsManager, ParkingManager, RouteManager, TileManager

public interface **IRefreshableActions**
extends

Implemented by the managers with refresh intervals

Methods

getRefreshInterval

```
public int getRefreshInterval(java.lang.Object action)
```

com.inrix.sdk
Class LocationsManager

```
java.lang.Object
   |
   +-com.inrix.sdk.LocationsManager
```

public class **LocationsManager**
extends java.lang.Object

Fields

CALLBACK_MISSING

```
private static final java.lang.String CALLBACK_MISSING
```

Constant value: **Result callback is missing**

REQUEST_PARAMETERS_MISSING

```
private static final java.lang.String REQUEST_PARAMETERS_MISSING
```

Constant value: **Request parameters are missing**

POSITION_INVALID

```
private static final java.lang.String POSITION_INVALID
```

Constant value: **Location position is invalid**

LOCATION_ID_INVALID

```
private static final java.lang.String LOCATION_ID_INVALID
```

Constant value: **LocationId is invalid**

LOCATION_NAME_INVALID

```
private static final java.lang.String LOCATION_NAME_INVALID
```

Constant value: **Location name is invalid**

Constructors

LocationsManager

```
public LocationsManager()
```

Methods

requestSavedLocations

```
public final ICancellable
requestSavedLocations(LocationsManager.ILocationsGetResponseListener listener)
  throws java.security.InvalidParameterException
```

Request locations saved by current user

Parameters:

`listener`

Returns:

ICancellable so you can cancel this operation

---

createLocation

```
public final ICancellable
createLocation(LocationsManager.ILocationSaveResponseListener listener,
         LocationsManager.CreateLocationOptions params)
  throws java.security.InvalidParameterException
```

Save location on server

Parameters:

`listener` - - response listener. Location instance will be returned in case of success
`params` - - create location options

---

deleteLocation

```
public ICancellable deleteLocation(LocationsManager.ILocationDeleteResponseListener
listener,
         LocationsManager.DeleteLocationOptions params)
  throws java.security.InvalidParameterException
```

Request to delete location from the server

Parameters:

`locationId` - - id of location to delete
`listener` - - result listener

Returns:

---

updateLocation

```
public ICancellable updateLocation(LocationsManager.ILocationSaveResponseListener
listener,
         LocationsManager.UpdateLocationOptions params)
  throws java.security.InvalidParameterException
```

Update previously saved location

Parameters:

`listener` - - result listener
`params` - - update location options

Returns:

(continued from last page)

ICancellable so you can cancel ongoing operation

getLastLocationsUpdate

```
public ICancellable
getLastLocationsUpdate(LocationsManager.ILastLocationsUpdateResponseListener listener)
  throws java.security.InvalidParameterException
```

Get last update timestamp. As a result, you will get latest known update timestamp for locations/custom routes/alerts or NULL if specified entry was never changed.
This API can be useful to peek status of the last update of locations, so you know when you need to request actual locations payload

Parameters:

`listener` - - result listener

com.inrix.sdk
Interface LocationsManager.ILocationsGetResponseListener

All Superinterfaces:
IDataResponseListener

---

public interface **LocationsManager.ILocationsGetResponseListener**
extends IDataResponseListener

Incidents result listener.

---

com.inrix.sdk
Interface LocationsManager.ILocationSaveResponseListener

All Superinterfaces:
IDataResponseListener

---

public interface **LocationsManager.ILocationSaveResponseListener**
extends IDataResponseListener

---

com.inrix.sdk
Interface LocationsManager.ILastLocationsUpdateResponseListener

All Superinterfaces:
IDataResponseListener

---

public interface **LocationsManager.ILastLocationsUpdateResponseListener**
extends IDataResponseListener

---

com.inrix.sdk
Interface LocationsManager.ILocationDeleteResponseListener

All Superinterfaces:
IDataResponseListener

---

public interface **LocationsManager.ILocationDeleteResponseListener**
extends IDataResponseListener

---

com.inrix.sdk
Class LocationsManager.CreateLocationOptions

```
java.lang.Object
   |
   +-com.inrix.sdk.LocationsManager.CreateLocationOptions
```

public static class **LocationsManager.CreateLocationOptions**
extends java.lang.Object

Fields

name

```
private java.lang.String name
```

address

```
private java.lang.String address
```

position

```
private com.inrix.sdk.model.GeoPoint position
```

customData

```
private java.lang.String customData
```

locationType

```
private int locationType
```

order

```
private int order
```

Constructors

(continued from last page)

LocationsManager.CreateLocationOptions

```
public LocationsManager.CreateLocationOptions(GeoPoint position,
                                              java.lang.String name)
```

Methods

setName

```
public LocationsManager.CreateLocationOptions setName(java.lang.String name)
```

Set location name

Parameters:
`name`

Returns:

---

getName

```
java.lang.String getName()
```

---

setAddress

```
public LocationsManager.CreateLocationOptions setAddress(java.lang.String address)
```

Optional address

Parameters:
`address`

Returns:

---

getAddress

```
java.lang.String getAddress()
```

---

setPosition

```
public LocationsManager.CreateLocationOptions setPosition(GeoPoint position)
```

Set geo position

Parameters:
`position`

Returns:

getPosition

GeoPoint **getPosition**()

setCustomData

public LocationsManager.CreateLocationOptions **setCustomData**(java.lang.String customData)

Set custom data. This optional data will be saved along with location

Parameters:
customData

Returns:

getCustomData

java.lang.String **getCustomData**()

setLocationType

public LocationsManager.CreateLocationOptions **setLocationType**(int type)

Set location type. This parameter is provided for clients as a means of identifying what kind of location this is. For example, an application may want to save gas stations to the address book. In this case, the client can save its internal type identifier for "gas station" to the locationType field.

Parameters:
type

Returns:

getLocationType

int **getLocationType**()

setOrder

public LocationsManager.CreateLocationOptions **setOrder**(int order)

Optional order parameter. This parameter can be used by clients in order to preserve the order of locations, so next time you call GetLocations API, you know in what order these locations should be displayed on a client. You can pass 0 if you don't care about ordering.

Parameters:
order

Returns:

getOrder

```
int getOrder()
```

com.inrix.sdk
Class LocationsManager.UpdateLocationOptions

```
java.lang.Object
   |
   +-com.inrix.sdk.LocationsManager.UpdateLocationOptions
```

public static class **LocationsManager.UpdateLocationOptions**
extends java.lang.Object

Fields

locationId

```
private long locationId
```

name

```
private java.lang.String name
```

address

```
private java.lang.String address
```

order

```
private java.lang.Integer order
```

type

```
private java.lang.Integer type
```

customData

```
private java.lang.String customData
```

Constructors

(continued from last page)

LocationsManager.UpdateLocationOptions

```
public LocationsManager.UpdateLocationOptions(long locationId)
```

Methods

getLocationId

```
long getLocationId()
```

---

getName

```
java.lang.String getName()
```

---

setName

```
public LocationsManager.UpdateLocationOptions setName(java.lang.String name)
```

---

getOrder

```
java.lang.Integer getOrder()
```

---

setOrder

```
public LocationsManager.UpdateLocationOptions setOrder(java.lang.Integer order)
```

---

getAddress

```
java.lang.String getAddress()
```

---

setAddress

```
public LocationsManager.UpdateLocationOptions setAddress(java.lang.String address)
```

---

getCustomData

```
java.lang.String getCustomData()
```

(continued from last page)

setCustomData

public LocationsManager.UpdateLocationOptions **setCustomData**(java.lang.String customData)

---

getLocationType

java.lang.Integer **getLocationType**()

---

setLocationType

public LocationsManager.UpdateLocationOptions **setLocationType**(java.lang.Integer type)

com.inrix.sdk
Class LocationsManager.DeleteLocationOptions

```
java.lang.Object
   |
   +-com.inrix.sdk.LocationsManager.DeleteLocationOptions
```

public static class **LocationsManager.DeleteLocationOptions**
extends java.lang.Object

Fields

locationId

```
private long locationId
```

Constructors

LocationsManager.DeleteLocationOptions

```
public LocationsManager.DeleteLocationOptions(long locationId)
```

Methods

getLocationId

```
public long getLocationId()
```

com.inrix.sdk
Class ParkingManager

```
java.lang.Object
   |
   +-com.inrix.sdk.ParkingManager
```

All Implemented Interfaces:
IRefreshableActions

---

public final class **ParkingManager**
extends java.lang.Object
implements IRefreshableActions

Provides APIs to retrieve parking lots in geographical region an get information about parking lots.

Fields

GET_PARKINGLOTS_INTERVAL

```
private static final int GET_PARKINGLOTS_INTERVAL
```

Constant value: **180**

GET_PARKINGLOT_INFORMATION_INTERVAL

```
private static final int GET_PARKINGLOT_INFORMATION_INTERVAL
```

Constant value: **600**

PARKING_OUTPUT_FIELD_VALUE_BASIC

```
private static final java.lang.String PARKING_OUTPUT_FIELD_VALUE_BASIC
```

Basic information about the parking lot: name, address, location. Constant value: .
Constant value: **basic**

PARKING_OUTPUT_FIELD_VALUE_PRICING

```
private static final java.lang.String PARKING_OUTPUT_FIELD_VALUE_PRICING
```

Pricing information for the parking lots. Constant value: .
Constant value: **pricing**

PARKING_OUTPUT_FIELD_VALUE_GEOMETRY

```
private static final java.lang.String PARKING_OUTPUT_FIELD_VALUE_GEOMETRY
```

Geometry of the parking lot. Constant value: .
Constant value: **geometry**

(continued from last page)

PARKING_OUTPUT_FIELD_VALUE_DYNAMIC

`private static final java.lang.String` **`PARKING_OUTPUT_FIELD_VALUE_DYNAMIC`**

Dynamic fill rate. Constant value: .
Constant value: **`dynamic`**

PARKING_OUTPUT_FIELD_VALUE_STATIC

`private static final java.lang.String` **`PARKING_OUTPUT_FIELD_VALUE_STATIC`**

Same as basic, with additional information: photo link, gate information, pricing, etc. Constant value: .
Constant value: **`static`**

PARKING_OUTPUT_FIELD_VALUE_ALL

`private static final java.lang.String` **`PARKING_OUTPUT_FIELD_VALUE_ALL`**

All available information about the parking lot. Constant value: .
Constant value: **`all`**

PARKING_OUTPUT_FIELD_BASIC

`public static final int` **`PARKING_OUTPUT_FIELD_BASIC`**

Basic information about the parking lot: name, address, location. Constant value: .
Constant value: **`1`**

PARKING_OUTPUT_FIELD_PRICING

`public static final int` **`PARKING_OUTPUT_FIELD_PRICING`**

Pricing information for the parking lots. Constant value: .
Constant value: **`2`**

PARKING_OUTPUT_FIELD_GEOMETRY

`public static final int` **`PARKING_OUTPUT_FIELD_GEOMETRY`**

Geometry of the parking lot. Constant value: .
Constant value: **`4`**

PARKING_OUTPUT_FIELD_DYNAMIC

`public static final int` **`PARKING_OUTPUT_FIELD_DYNAMIC`**

Dynamic fill rate. Constant value: .
Constant value: **`8`**

PARKING_OUTPUT_FIELD_STATIC

`public static final int` **`PARKING_OUTPUT_FIELD_STATIC`**

Same as basic, with additional information: photo link, gate information, pricing, etc. Constant value: .
Constant value: **`16`**

PARKING_OUTPUT_FIELD_ALL

`public static final int` **`PARKING_OUTPUT_FIELD_ALL`**

(continued from last page)

All available information about the parking lot. Constant value: .
Constant value: **255**

PARKING_SORT_BY_NONE_VALUE

`private static final java.lang.String` **`PARKING_SORT_BY_NONE_VALUE`**

No sorting is performed on results. Constant value: .
Constant value: **none**

PARKING_SORT_BY_DISTANCE_VALUE

`private static final java.lang.String` **`PARKING_SORT_BY_DISTANCE_VALUE`**

Results are sorted by distance. Constant value: .
Constant value: **distance**

UNITS_METERS_VALUE

`private static final java.lang.String` **`UNITS_METERS_VALUE`**

Constant value: **1**

UNITS_MILES_VALUE

`private static final java.lang.String` **`UNITS_MILES_VALUE`**

Constant value: **0**

Constructors

ParkingManager

`public` **`ParkingManager`**`()`

Initializes a new instance of the ParkingManager.

Methods

getRefreshInterval

`public int` **`getRefreshInterval`**`(ParkingManager.ACTIONS action)`

Return the preferred refresh interval for an action

Parameters:
`action` - - refresh action

Returns:
preferred refresh interval (in seconds)

(continued from last page)

getParkingLotsInRadius

```
public final ICancellable
getParkingLotsInRadius(ParkingManager.IParkingResponseListener listener,
        ParkingManager.ParkingInRadiusOptions options)
  throws InrixException
```

Gets parking lots in specified radius, using specified center an radius information.

Parameters:

`options` -

Parking request options.

`listener` -

Response callback.

Returns:

An instance of an object that implements `ICancellable`.

---

getParkingLotsInBox

```
public final ICancellable getParkingLotsInBox(ParkingManager.IParkingResponseListener
listener,
        ParkingManager.ParkingInBoxOptions options)
  throws InrixException
```

Gets the parking lots information in a specified rectangular region.

Parameters:

`listener` -

Response callback.

`options` -

Parking request options.

Returns:

An instance of an object that implements `ICancellable`.

---

getParkingLotInformation

```
public final ICancellable
getParkingLotInformation(ParkingManager.IParkingResponseListener listener,
        ParkingManager.ParkingInfoOptions options)
  throws InrixException
```

Gets information about parking lot(s) using specified parking lot id(s).

Parameters:

`ids` -

Collection of target parking lot id(s).

`options` -

Additional parking options

`listener` -

Response callback.

Returns:

An instance of an object that implements `ICancellable`.

(continued from last page)

validateArrivalDate

```
private final static void validateArrivalDate(java.util.Date date)
```

validateOutputFields

```
private final static void validateOutputFields(int outputFields)
```

resolveOutputFields

```
private final static java.lang.String resolveOutputFields(int outputFields)
```

resolveSortValue

```
private final static java.lang.String resolveSortValue(ParkingManager.SORT_BY sort)
```

resolveUnits

```
private final static java.lang.String resolveUnits(ParkingManager.UNIT units)
```

com.inrix.sdk
Class ParkingManager.ACTIONS

```
java.lang.Object
   |-java.lang.Enum
      |-com.inrix.sdk.ParkingManager.ACTIONS
```

All Implemented Interfaces:
java.io.Serializable, java.lang.Comparable

---

public static final class **ParkingManager.ACTIONS**
extends java.lang.Enum

Fields

GET_PARKINGLOTS

```
public static final com.inrix.sdk.ParkingManager.ACTIONS GET_PARKINGLOTS
```

GET_PARKINGLOT_INFORMATION

```
public static final com.inrix.sdk.ParkingManager.ACTIONS GET_PARKINGLOT_INFORMATION
```

Constructors

ParkingManager.ACTIONS

```
private ParkingManager.ACTIONS()
```

Methods

values

```
public static ParkingManager.ACTIONS[] values()
```

---

valueOf

```
public static ParkingManager.ACTIONS valueOf(java.lang.String name)
```

com.inrix.sdk
Interface ParkingManager.IParkingResponseListener

All Superinterfaces:
IDataResponseListener

---

public interface **ParkingManager.IParkingResponseListener**
extends IDataResponseListener

The listener interface for receiving IParkingResponse events. The class that is interested in processing a IParkingResponse event implements this interface. When the IParkingResponse event occurs, that object's appropriate method is invoked.

---

com.inrix.sdk
Class ParkingManager.ParkingOptions

```
java.lang.Object
   |
   +-com.inrix.sdk.ParkingManager.ParkingOptions
```

Direct Known Subclasses:
ParkingInfoOptions, ParkingInBoxOptions, ParkingInRadiusOptions

---

public static abstract class **ParkingManager.ParkingOptions**
extends java.lang.Object

Represents an options for requesting information about parking lots.

Fields

arrivalDate

```
private java.util.Date arrivalDate
```

---

outputFields

```
private int outputFields
```

---

sortBy

```
private com.inrix.sdk.ParkingManager.SORT_BY sortBy
```

---

units

```
private com.inrix.sdk.ParkingManager.UNIT units
```

Constructors

ParkingManager.ParkingOptions

```
public ParkingManager.ParkingOptions()
```

Initializes a new instance of the ParkingOptions class.

Methods

(continued from last page)

setArrivalDate

`public final ParkingManager.ParkingOptions setArrivalDate(java.util.Date arrivalDate)`

Sets the arrival date.

Parameters:

`arrivalDate` -

Target arrival date.

Returns:

Current instance.

---

getArrivalDate

`final java.util.Date getArrivalDate()`

Gets the arrival date.

Returns:

Arrival date value.

---

setOutputFields

`public final ParkingManager.ParkingOptions setOutputFields(int fields)`

Sets the parking lot output fields. Default value: `ParkingManager.PARKING_OUTPUT_FIELD_BASIC`.

Parameters:

`fields` -

Output fields for the parking lot. Supported values are:

- `ParkingManager.PARKING_OUTPUT_FIELD_BASIC`
- `ParkingManager.PARKING_OUTPUT_FIELD_PRICING`
- `ParkingManager.PARKING_OUTPUT_FIELD_GEOMETRY`
- `ParkingManager.PARKING_OUTPUT_FIELD_DYNAMIC`
- `ParkingManager.PARKING_OUTPUT_FIELD_STATIC`
- `ParkingManager.PARKING_OUTPUT_FIELD_ALL`

Fields can be combined, for instance PARKING_OUTPUT_FIELD_BASIC | PARKING_OUTPUT_FIELD_PRICING.

Returns:

---

getOutputFields

`final int getOutputFields()`

Gets the output fields value.

Returns:

Output fields value.

setSortBy

`public final ParkingManager.ParkingOptions setSortBy(ParkingManager.SORT_BY sortBy)`

Sorting order for the results.

Parameters:
`sortBy`

Returns:
Current instance.

getSortBy

`final ParkingManager.SORT_BY getSortBy()`

Gets a sort order for the results.

Returns:
Sort order for results.

setUnits

`public final ParkingManager.ParkingOptions setUnits(ParkingManager.UNIT units)`

Sets the output units

Parameters:
`units`

Returns:

getUnits

`final ParkingManager.UNIT getUnits()`

Gets the output units.

Returns:
The output units.

com.inrix.sdk
Class ParkingManager.ParkingInRadiusOptions

```
java.lang.Object
   |-com.inrix.sdk.ParkingManager.ParkingOptions
      |-com.inrix.sdk.ParkingManager.ParkingInRadiusOptions
```

public static class **ParkingManager.ParkingInRadiusOptions**
extends ParkingManager.ParkingOptions

Fields

center

```
private com.inrix.sdk.model.GeoPoint center
```

radius

```
private int radius
```

Constructors

ParkingManager.ParkingInRadiusOptions

```
public ParkingManager.ParkingInRadiusOptions(GeoPoint center,
                                             int radius)
```

Parameters:
center - - see setCenter(GeoPoint)
radius - - see setRadius(int)

Methods

setCenter

```
public ParkingManager.ParkingInRadiusOptions setCenter(GeoPoint center)
```

Parameters:
center -

Target geographical center.

Returns:

setRadius

```
public ParkingManager.ParkingInRadiusOptions setRadius(int radius)
```

Parameters:

`radius` -

The radius of the circular bounding area from which return data. Any features that are fully or partially enclosed within the bounding area are selected. If the units options parameter is set to `ParkingManager.UNIT.METERS`, the radius is measured in meters; if units is set to `ParkingManager.UNIT.MILES`, the radius is measured in miles.

Returns:

getRadius

```
public int getRadius()
```

getCenter

```
public GeoPoint getCenter()
```

com.inrix.sdk
Class ParkingManager.ParkingInBoxOptions

```
java.lang.Object
   ┗-com.inrix.sdk.ParkingManager.ParkingOptions
      ┗-com.inrix.sdk.ParkingManager.ParkingInBoxOptions
```

public static class **ParkingManager.ParkingInBoxOptions**
extends ParkingManager.ParkingOptions

Fields

corner1

```
private com.inrix.sdk.model.GeoPoint corner1
```

corner2

```
private com.inrix.sdk.model.GeoPoint corner2
```

Constructors

ParkingManager.ParkingInBoxOptions

```
public ParkingManager.ParkingInBoxOptions(GeoPoint corner1,
                                          GeoPoint corner2)
```

Parameters:
`corner1` - - see `setCorner1(GeoPoint)`
`corner2` - - see `setCorner2(GeoPoint)`

Methods

setCorner1

```
public ParkingManager.ParkingInBoxOptions setCorner1(GeoPoint corner)
```

Set corner1

Parameters:
`corner1` -

First corner of the region in which to get data.

Returns:

setCorner2

`public ParkingManager.ParkingInBoxOptions setCorner2(GeoPoint corner)`

Set corner2

Parameters:

`corner2` - The second corner of the region in which to get data. The corner 2 parameter is the geometric opposite of corner 1.

Returns:

getCorner1

`GeoPoint getCorner1()`

getCorner2

`GeoPoint getCorner2()`

com.inrix.sdk
Class ParkingManager.ParkingInfoOptions

```
java.lang.Object
   |-com.inrix.sdk.ParkingManager.ParkingOptions
      |-com.inrix.sdk.ParkingManager.ParkingInfoOptions
```

public static class **ParkingManager.ParkingInfoOptions**
extends ParkingManager.ParkingOptions

Fields

ids

```
private java.util.List ids
```

Constructors

ParkingManager.ParkingInfoOptions

```
public ParkingManager.ParkingInfoOptions(java.util.List ids)
```

Parameters:
`ids` - - See `setIds(List)`

Methods

setIds

```
public ParkingManager.ParkingInfoOptions setIds(java.util.List ids)
```

Parameters:
`ids` - -

Collection of target parking lot id(s).

Returns:

getIds

```
java.util.List getIds()
```

com.inrix.sdk
Class ParkingManager.SORT_BY

```
java.lang.Object
   |-java.lang.Enum
      |-com.inrix.sdk.ParkingManager.SORT_BY
```

All Implemented Interfaces:
java.io.Serializable, java.lang.Comparable

---

public static final class **ParkingManager.SORT_BY**
extends java.lang.Enum

Fields

NONE

`public static final com.inrix.sdk.ParkingManager.SORT_BY NONE`

No sorting is performed on results .

DISTANCE

`public static final com.inrix.sdk.ParkingManager.SORT_BY DISTANCE`

Results are sorted by distance .

Constructors

ParkingManager.SORT_BY

`private ParkingManager.SORT_BY()`

Methods

values

`public static ParkingManager.SORT_BY[] values()`

---

valueOf

`public static ParkingManager.SORT_BY valueOf(java.lang.String name)`

com.inrix.sdk
Class ParkingManager.UNIT

```
java.lang.Object
   |-java.lang.Enum
      |-com.inrix.sdk.ParkingManager.UNIT
```

All Implemented Interfaces:
java.io.Serializable, java.lang.Comparable

---

public static final class **ParkingManager.UNIT**
extends java.lang.Enum

Fields

MILES

```
public static final com.inrix.sdk.ParkingManager.UNIT MILES
```

METERS

```
public static final com.inrix.sdk.ParkingManager.UNIT METERS
```

Constructors

ParkingManager.UNIT

```
private ParkingManager.UNIT()
```

Methods

values

```
public static ParkingManager.UNIT[] values()
```

---

valueOf

```
public static ParkingManager.UNIT valueOf(java.lang.String name)
```

com.inrix.sdk
Interface PropertyName

interface **PropertyName**
extends java.lang.annotation.Annotation

Methods

name

```
public java.lang.String name()
```

com.inrix.sdk
Class RouteManager

```
java.lang.Object
   |
   +-com.inrix.sdk.RouteManager
```

All Implemented Interfaces:
IRefreshableActions

---

public final class **RouteManager**
extends java.lang.Object
implements IRefreshableActions

Fields

MINIMUM_TRAVEL_TIME_COUNT

```
private static final int MINIMUM_TRAVEL_TIME_COUNT
```

Constant value: **1**

MAXIMUM_TRAVEL_TIME_COUNT

```
private static final int MAXIMUM_TRAVEL_TIME_COUNT
```

Constant value: **96**

MINIMUM_TRAVEL_TIME_INTERVAL

```
private static final int MINIMUM_TRAVEL_TIME_INTERVAL
```

Constant value: **1**

MAXIMUM_TRAVEL_TIME_INTERVAL

```
private static final int MAXIMUM_TRAVEL_TIME_INTERVAL
```

Constant value: **1440**

DEEFAULT_INTERVAL

```
private static final int DEEFAULT_INTERVAL
```

Constant value: **180**

Constructors

(continued from last page)

RouteManager

```
public RouteManager()
```

Methods

getRefreshInterval

```
public int getRefreshInterval(RouteManager.ACTIONS action)
```

Return the preferred refresh interval for an action

Parameters:

`action` - - refresh action

Returns:

preferred refresh interval (in seconds)

---

requestTravelTimes

```
public final ICancellable requestTravelTimes(RouteManager.TravelTimeOptions
requestParameters,
        RouteManager.ITravelTimeResponseListener listener)
  throws InrixException
```

Request Travel times for a route.

Parameters:

`requestParameters` - - instance of a `RouteManager.TravelTimeOptions` class. This contains the route id, the travel time count and travel time interval as mandatory parameters and the departure time and arrival time as optional parameters
`listener` - - instance of a `RouteManager.ITravelTimeResponseListener` class.

Returns:

Throws:

`InrixException`

---

requestRoutes

```
public ICancellable requestRoutes(RouteManager.RouteOptions params,
        RouteManager.IRouteResponseListener listener)
  throws InrixException
```

Takes a set of waypoints and calculates one or more routes from the first waypoint to the last waypoint, passing through other optional waypoints in turn.

Returns:

`ICancellable` instance or NULL if request has not been made

com.inrix.sdk
Class RouteManager.ACTIONS

```
java.lang.Object
   |-java.lang.Enum
      |-com.inrix.sdk.RouteManager.ACTIONS
```

All Implemented Interfaces:
java.io.Serializable, java.lang.Comparable

---

public static final class **RouteManager.ACTIONS**
extends java.lang.Enum

Fields

REQUEST_ROUTES

```
public static final com.inrix.sdk.RouteManager.ACTIONS REQUEST_ROUTES
```

REQUEST_TRAVELTIMES

```
public static final com.inrix.sdk.RouteManager.ACTIONS REQUEST_TRAVELTIMES
```

Constructors

RouteManager.ACTIONS

```
private RouteManager.ACTIONS()
```

Methods

values

```
public static RouteManager.ACTIONS[] values()
```

---

valueOf

```
public static RouteManager.ACTIONS valueOf(java.lang.String name)
```

com.inrix.sdk
Interface RouteManager.ITravelTimeResponseListener

All Superinterfaces:
IDataResponseListener

---

public interface **RouteManager.ITravelTimeResponseListener**
extends IDataResponseListener

Travel time result listener. Extends `IDataResponseListener`

---

com.inrix.sdk
Interface RouteManager.IRouteResponseListener

All Superinterfaces:
IDataResponseListener

---

public interface **RouteManager.IRouteResponseListener**
extends IDataResponseListener

route response listener

---

com.inrix.sdk
Class RouteManager.RouteOptions

```
java.lang.Object
   |
   +-com.inrix.sdk.RouteManager.RouteOptions
```

public static class **RouteManager.RouteOptions**
extends java.lang.Object

Fields

start

```
private com.inrix.sdk.model.GeoPoint start
```

end

```
private com.inrix.sdk.model.GeoPoint end
```

waypoints

```
private java.util.List waypoints
```

tolerance

```
private int tolerance
```

numAlternates

```
private int numAlternates
```

Constructors

RouteManager.RouteOptions

```
public RouteManager.RouteOptions(GeoPoint start,
                                 GeoPoint end)
```

Methods

(continued from last page)

getStart

GeoPoint **getStart**()

---

setStart

public RouteManager.RouteOptions **setStart**(GeoPoint point)

Set start point

Parameters:
point

Returns:

---

getEnd

GeoPoint **getEnd**()

---

setEnd

public RouteManager.RouteOptions **setEnd**(GeoPoint point)

Set end point

Parameters:
end

Returns:

---

getWaypoints

java.util.List **getWaypoints**()

---

setWaypoints

public RouteManager.RouteOptions **setWaypoints**(java.util.List waypoints)
throws InrixException

Set optional waypoints. Route through these waypoints will be returned. Maximum number of waypoints is 8. If one or more way points are invalid this method throws an InrixException

Parameters:
waypoints

Returns:

Throws:
InrixException

getTolerance

```
int getTolerance()
```

setTolerance

```
public RouteManager.RouteOptions setTolerance(int tolerance)
```

Set tolerance. Tolerance reduces the number of latitude/longitude points returned. This value should be greater than or equal to 0 and is specified in yards for English units and meters for metric units. The default is 0, which means exact (no inaccuracy is tolerated), and results in the entire Points set being returned. Higher values will reduce the number of points by eliminating points whose distance from each other is less than the specified tolerance. Based on the level of zoom used to draw the map, you can save bandwidth by reducing the size of the return payload. For example, if the map is zoomed to a 300-mile level, you may want to return fewer data points.

Parameters:

`tolerance`

Returns:

getNumAlternates

```
int getNumAlternates()
```

setNumAlternates

```
public RouteManager.RouteOptions setNumAlternates(int numAlternates)
```

Determines the number of alternate routes calculated. By default, only one route is returned but you can request up to 2 alternates. If all the routes have closures and cannot be driven, the third route returned is replaced with a fastest traffic-aware route that is navigable. In other words, no matter what the conditions are on the primary (and maybe secondary) routes, the API always returns at least one navigable route.

Parameters:

`numAlternates`

Returns:

areWayPointsValid

```
private boolean areWayPointsValid(java.util.List wayPointsList)
```

Function to check the way points list to make sure that the way points passed in are valid GeoPoints

Parameters:

`wayPointsList` - - the list of way points to check

Returns:

true if all the way points are valid false if even one of the way points passed in are invalid

com.inrix.sdk
Class RouteManager.TravelTimeOptions

```
java.lang.Object
   |
   +-com.inrix.sdk.RouteManager.TravelTimeOptions
```

public static class **RouteManager.TravelTimeOptions**
extends java.lang.Object

Class representing the Travel Time Request Options for the server. The mandatory parameters are the route ID, travel time count and travel time interval. Optional Parameters are Departure time - defaults to NOW Arrival Time - ignored if the departure time is specified.

Fields

route

```
private com.inrix.sdk.model.Route route
```

A valid route for which to return traffic and routing information.

travelTimeCount

```
private int travelTimeCount
```

The number of travel times you want to be returned for this route. Must be a value greater than 0, but less than or equal to 96.

travelTimeInterval

```
private int travelTimeInterval
```

The time span (in Minutes) between the travel times specified in TravelTimeCount. Must be a value greater than 0, but less than or equal to 1440 minutes.

departureTime

```
private java.util.Date departureTime
```

Optional: The time of departure. Defaults to 'now' if not specified. DepartureTime must be within one year from the time of the API call, and must occur in the future. The date format must be in the form YYYY-MM-DDTHH:MM:SSZ; for example 2009-04-04T13:42:41Z.

arrivalTime

```
private java.util.Date arrivalTime
```

Optional: The time of arrival. Ignored if DepartureTime is specified. ArrivalTime must be within one year from the time of the API call, and must occur in the future. The date format must be in the form YYYY-MM-DDTHH:MM:SSZ; for example 2009-04-04T13:42:41Z.

Constructors

(continued from last page)

RouteManager.TravelTimeOptions

```
public RouteManager.TravelTimeOptions(Route route,
                                      int travelTimeCount,
                                      int travelTimeInterval)
```

Constructor

Parameters:

`route` - - The route object. This is obtained from a route find call before
`travelTimeCount` - - How many travel times are requested. (minimum = 1 maximum = 96)
`travelTimeInterval` - - what is the interval between travel times in minutes (minimum = 1 maximum = 1440)

Methods

getRoute

```
public Route getRoute()
```

Get the route for the travel time request options

Returns:

- the route object for this travel time request

---

setRoute

```
public void setRoute(Route route)
```

Set the route object for the travel time request options

Parameters:

`route` - - The route object to set for this travel time request

---

getDepartureTimeString

```
public java.lang.String getDepartureTimeString()
```

Get the departure time as a String

Returns:

- the departure date/time

---

setDepartureTime

```
public void setDepartureTime(java.util.Date departureTime)
```

Set the departure time

Parameters:

`departureTime` - The time of departure. Defaults to now if not specified. DepartureTime must be within one year from the time of the API call, and must occur in the future. **This is an optional parameter**

---

getArrivalTimeString

```
public java.lang.String getArrivalTimeString()
```

Get the arrival time as a String

(continued from last page)

Returns:
- the arrival date/time

setArrivalTime

`public void setArrivalTime(java.util.Date arrivalTime)`

Set the arrival time

Parameters:
`arrivalTime` - The time of arrival. Ignored if DepartureTime is specified. ArrivalTime must be within one year from the time of the API call, and must occur in the future. **This is an optional parameter**

Returns:
- the arrival date/time

getTravelTimeCount

`public int getTravelTimeCount()`

Get the travel time count

Returns:
- the travel time count

setTravelTimeCount

`public void setTravelTimeCount(int travelTimeCount)`

Set the travel time count

Parameters:
`travelTimeCount`

getTravelTimeInterval

`public int getTravelTimeInterval()`

Get the travel time interval

Returns:

setTravelTimeInterval

`public void setTravelTimeInterval(int travelTimeInterval)`

Set the travel times interval. At what interval you want the different start times

Parameters:
`travelTimeInterval`

isTravelTimeCountValid

`public boolean isTravelTimeCountValid()`

Method to validate if the travel time count is valid

Returns:

(continued from last page)

true if the travel time count is valid false if not. Valid values between 1 and 96 inclusive

isTravelTimeIntervalValid

```
public boolean isTravelTimeIntervalValid()
```

Method to validate if the travel time interval is valid

Returns:

true if the travel time interval is valid false if not. Valid values between 1 and 1440 minutes inclusive

isRouteValid

```
public boolean isRouteValid()
```

Method to check that the route specified in this travel time request is valid A Valid route is not null, has route points and has at least two points in it.

Returns:

- true if the route is valid - false if the route is not valid

com.inrix.sdk
Class Settings

```
java.lang.Object
   |
   +-com.inrix.sdk.Settings
```

Direct Known Subclasses:
InrixConfig

---

abstract class **Settings**
extends java.lang.Object

The Class settings, read configuration from properties file

Constructors

Settings

```
Settings()
```

Methods

loadFromProperties

```
public void loadFromProperties(Context paramContext)
```

---

loadFromProperties

```
public void loadFromProperties(Context paramContext,
         java.lang.String paramString)
```

---

isValid

```
public abstract boolean isValid()
```

---

getDefaultPropertiesFilename

```
public abstract java.lang.String getDefaultPropertiesFilename()
```

com.inrix.sdk
Class TileManager

```
java.lang.Object
   |
   +-com.inrix.sdk.TileManager
```

All Implemented Interfaces:
IRefreshableActions

---

public final class **TileManager**
extends java.lang.Object
implements IRefreshableActions

Contains APIs to obtain traffic tiles.

Fields

GET_TRAFFIC_TILE_INTERVAL

```
private static final int GET_TRAFFIC_TILE_INTERVAL
```

Constant value: **90**

ACTION

```
private static final java.lang.String ACTION
```

Constant value: **Mobile.Tile**

TILE_FORMAT_NAME_PNG

```
private static final java.lang.String TILE_FORMAT_NAME_PNG
```

Constant value: **PNG**

TILE_FORMAT_NAME_GIF

```
private static final java.lang.String TILE_FORMAT_NAME_GIF
```

Constant value: **GIF**

TILE_LAYER_TILE

```
private static final java.lang.String TILE_LAYER_TILE
```

Constant value: **T**

(continued from last page)

ERROR_MESSAGE_INVALID_OPACITY

private static final java.lang.String **ERROR_MESSAGE_INVALID_OPACITY**

Constant value: **Opacity value is out of range. Should be between 0 and 100.**

ERROR_MESSAGE_QUADKEY_EMPTY

private static final java.lang.String **ERROR_MESSAGE_QUADKEY_EMPTY**

Constant value: **Quad key value cannot be empty.**

ERROR_MESSAGE_INVALID_PEN_WIDTH

private static final java.lang.String **ERROR_MESSAGE_INVALID_PEN_WIDTH**

Constant value: **Pen width must a positive value.**

ERROR_MESSAGE_UNKNOWN_FORMAT

private static final java.lang.String **ERROR_MESSAGE_UNKNOWN_FORMAT**

Constant value: **Unsupported traffic tile format.**

ERROR_MESSAGE_INVALID_COVERAGE

private static final java.lang.String **ERROR_MESSAGE_INVALID_COVERAGE**

Constant value: **Invalid colverage value.**

ERROR_MESSAGE_INVALID_FRC_LEVEL

private static final java.lang.String **ERROR_MESSAGE_INVALID_FRC_LEVEL**

Constant value: **Invalid FRC level.**

ERROR_MESSAGE_INVALID_CENTER

private static final java.lang.String **ERROR_MESSAGE_INVALID_CENTER**

Constant value: **Invalid center coordinate.**

ERROR_MESSAGE_INVALID_CORNER1

private static final java.lang.String **ERROR_MESSAGE_INVALID_CORNER1**

Constant value: **Invalid corner 1 coordinate.**

ERROR_MESSAGE_INVALID_CORNER2

private static final java.lang.String **ERROR_MESSAGE_INVALID_CORNER2**

(continued from last page)

Constant value: **Invalid corner 2 coordinate.**

ERROR_MESSAGE_INVALID_ZOOM

`private static final java.lang.String` **ERROR_MESSAGE_INVALID_ZOOM**

Constant value: **Invalid zoom level. Must be between 0 and 21.**

ERROR_MESSAGE_INVALID_WIDTH

`private static final java.lang.String` **ERROR_MESSAGE_INVALID_WIDTH**

Constant value: **Tile width should be positive.**

ERROR_MESSAGE_INVALID_HEIGHT

`private static final java.lang.String` **ERROR_MESSAGE_INVALID_HEIGHT**

Constant value: **Tile height should be positive**

ERROR_MESSAGE_INVALID_TILE_X

`private static final java.lang.String` **ERROR_MESSAGE_INVALID_TILE_X**

Constant value: **Invalid tile X value.**

ERROR_MESSAGE_INVALID_TILE_Y

`private static final java.lang.String` **ERROR_MESSAGE_INVALID_TILE_Y**

Constant value: **Invalid tile Y value.**

MIN_LATITUDE

`private static final double` **MIN_LATITUDE**

Constant value: **-85.05112878**

MAX_LATITUDE

`private static final double` **MAX_LATITUDE**

Constant value: **85.05112878**

MIN_LONGITUDE

`private static final double` **MIN_LONGITUDE**

Constant value: **-180.0**

MAX_LONGITUDE

```
private static final double MAX_LONGITUDE
```

Constant value: **180.0**

MIN_OPACITY_VALUE

```
private static final int MIN_OPACITY_VALUE
```

Constant value: **0**

MAX_OPACITY_VALUE

```
private static final int MAX_OPACITY_VALUE
```

Constant value: **100**

MIN_ZOOM

```
private static final int MIN_ZOOM
```

Constant value: **0**

MAX_ZOOM

```
private static final int MAX_ZOOM
```

Constant value: **21**

TILE_DEFAULT_WIDTH

```
public static final int TILE_DEFAULT_WIDTH
```

Default traffic tile width. Constant value: .
Constant value: **256**

TILE_DEFAULT_HEIGHT

```
public static final int TILE_DEFAULT_HEIGHT
```

Default traffic tile height. Constant value: .
Constant value: **256**

TILE_DEFAULT_OPACITY

```
public static final int TILE_DEFAULT_OPACITY
```

Default tile opacity. Constant value: .
Constant value: **60**

(continued from last page)

TILE_DEFAULT_PEN_WIDTH

```
public static final int TILE_DEFAULT_PEN_WIDTH
```

Default tile pen width. Constant value: .
Constant value: **4**

TILE_FORMAT_PNG

```
public static final int TILE_FORMAT_PNG
```

Return the tile in PNG format. Constant value: .
Constant value: **0**

TILE_FORMAT_GIF

```
public static final int TILE_FORMAT_GIF
```

Return the tile in GIF format. Constant value: .
Constant value: **1**

TILE_FRC_LEVEL_1

```
public static final int TILE_FRC_LEVEL_1
```

First class roads, such as national highway network roads. Constant value: .
Constant value: **1**

TILE_FRC_LEVEL_2

```
public static final int TILE_FRC_LEVEL_2
```

Second class roads, such as state highway network roads. Constant value: .
Constant value: **2**

TILE_FRC_LEVEL_3

```
public static final int TILE_FRC_LEVEL_3
```

Third class roads, such as state interconnecting network roads. Constant value: .
Constant value: **4**

TILE_FRC_LEVEL_4

```
public static final int TILE_FRC_LEVEL_4
```

Fourth class roads, such as major connecting roads. Constant value: .
Constant value: **8**

TILE_FRC_LEVEL_5

```
public static final int TILE_FRC_LEVEL_5
```

Fifth class roads, such as minor roads connecting suburbs. Constant value: .
Constant value: **16**

TILE_FRC_LEVEL_6

```
public static final int TILE_FRC_LEVEL_6
```

(continued from last page)

Sixth class roads, such as destination and destination collector roads. Constant value: .
Constant value: **32**

TILE_FRC_LEVEL_7

```
public static final int TILE_FRC_LEVEL_7
```

Seventh class roads, such as destination dead-end roads. Constant value: .
Constant value: **64**

TILE_FRC_LEVEL_ALL

```
public static final int TILE_FRC_LEVEL_ALL
```

Report all road types. Constant value: .
Constant value: **255**

TILE_COVERAGE_REALTIME_CORE

```
public static final int TILE_COVERAGE_REALTIME_CORE
```

Real-time core coverage. Constant value: .
Constant value: **1**

TILE_COVERAGE_REALTIME_EXTENDED

```
public static final int TILE_COVERAGE_REALTIME_EXTENDED
```

Real-time extended coverage. Constant value: .
Constant value: **4**

TILE_COVERAGE_REALTIME_CORE_EXTENDED

```
public static final int TILE_COVERAGE_REALTIME_CORE_EXTENDED
```

Real-time core + extended coverage. Constant value: .
Constant value: **8**

TILE_COVERAGE_REFERENCE

```
public static final int TILE_COVERAGE_REFERENCE
```

Reference coverage. Constant value: .
Constant value: **32**

TILE_COVERAGE_HISTORICAL

```
public static final int TILE_COVERAGE_HISTORICAL
```

Historical coverage. Constant value: .
Constant value: **48**

TILE_COVERAGE_ALL

```
public static final int TILE_COVERAGE_ALL
```

Return all types of coverage. Constant value: .
Constant value: **255**

(continued from last page)

Constructors

TileManager

```
public TileManager()
```

Methods

getRefreshInterval

```
public int getRefreshInterval(TileManager.ACTIONS action)
```

Return the preferred refresh interval for an action

Parameters:

`action` - - refresh action

Returns:

preferred refresh interval (in seconds)

---

getTrafficTileUrl

```
public final java.lang.String getTrafficTileUrl(int x,
          int y,
          int zoom,
          TileManager.TileOptions options)
```

Creates a url to obtain a traffic tile bitmap.

Parameters:

`x` -

Traffic tile X coordinate.

`y` -

Traffic tile Y coordinate.

`zoom` -

Current zoom level

`options` -

Tile configuration options.

Returns:

The url that can be used to obtain the traffic tile.

---

getTrafficTileUrl

```
public final java.lang.String getTrafficTileUrl(GeoPoint corner1,
          GeoPoint corner2,
          TileManager.TileOptions options)
```

Creates a url to obtain a traffic tile bitmap.

Parameters:

(continued from last page)

`corner1` -

The first corner of the region in which to get data. This parameter must be specified as a pair of latitude and longitude values. The latitude and longitude values are expressed using the WGS 84 datum. Northern latitudes are positive and southern latitudes are negative. Eastern hemisphere longitudes are positive and western hemisphere longitudes are negative. Longitudes in North America are negative. The corner specified by the Corner1 parameter can be any of the four corners of the bounding rectangle.

`corner2` -

The second corner of the region in which to get data. The Corner2 parameter is the geometric opposite of Corner1.

`options` -

Tile configuration options.

Returns:

The url that can be used to obtain the traffic tile.

---

getTrafficTileUrl

```
public final java.lang.String getTrafficTileUrl(GeoPoint center,
          int zoom,
          int north,
          int east,
          TileManager.TileOptions options)
```

Creates a url to obtain a traffic tile bitmap.

Parameters:

`center` -

The center of the region in which to get data. This parameter must be specified as a pair of latitude and longitude values. Northern latitudes are positive and southern latitudes are negative. Eastern hemisphere longitudes are positive and western hemisphere longitudes are negative. Longitudes in North America are negative. The latitude and longitude values are expressed using the WGS 84 datum.

`zoom` -

An integer between 0 and 21 where 0 is zoomed out to cover the full globe, and 21 is the maximum zoom level. Note that some zoom levels may be too high or too low for Mobile.Tile to return an image.

`north` -

This parameter moves the tile's position North by one tile's height. Negative values move the tile South. Use in combination with Center, Zoom, and East.

`east` -

This parameter moves the tile's position East by one tile's width. Negative values move the tile West. Use in combination with Center, Zoom, and North.

`options` -

Tile configuration options.

Returns:

The url that can be used to obtain the traffic tile.

---

getTrafficTileUrl

```
public final java.lang.String getTrafficTileUrl(java.lang.String quadKey,
          TileManager.TileOptions options)
```

Creates a url to obtain a traffic tile bitmap.

Parameters:

`quadKey` -

A virtual earth quad key to generate a resulting 256 x 256 tile which represents the described area.

(continued from last page)

`options` -

Tile configuration options.

Returns:

The url that can be used to obtain the traffic tile.

getUriBuilderWithCommonParameters

```
private Uri.Builder getUriBuilderWithCommonParameters(GeoPoint point,
        TileManager.TileOptions options)
```

quadKeyToGeoPoint

```
public final static GeoPoint quadKeyToGeoPoint(java.lang.String quadKey)
```

Converts quad key into a `GeoPoint` instance with latitude/longitude values.

Parameters:

`quadKey` -

Target quad key value.

Returns:

GeoPoint instance with latitude/longitude resolved from quad key.

geoPointToQuadKey

```
public final static java.lang.String geoPointToQuadKey(GeoPoint point,
        int zoomLevel)
```

Converts `GeoPoint` value to quad key.

Parameters:

`point` -

GeoPoint value to be converted.

`zoomLevel` -

Current zoom level.

Returns:

Quad key value obtained from specified GeoPoint.

latLongToPixelXY

```
private final static <any> latLongToPixelXY(double latitude,
        double longitude,
        int zoomLevel)
```

Converts a point from latitude/longitude WGS-84 coordinates (in degrees) into pixel XY coordinates at a specified level of detail.

Parameters:

`latitude` -

Latitude of the point, in degrees.

`longitude` -

Longitude of the point, in degrees.

(continued from last page)

`zoomLevel` -

Level of detail, from 1 (lowest detail) to 23 (highest detail).

Returns:

Pair of pixel X/Y values.

pixelXYToTileXY

```
private final static <any> pixelXYToTileXY(int pixelX,
         int pixelY)
```

Converts pixel XY coordinates into tile XY coordinates of the tile containing the specified pixel.

Parameters:

`pixelX` -

Pixel X coordinate.

`pixelY` -

Pixel Y coordinate.

Returns:

Pair of tile X/Y values.

tileXYtoQuadKey

```
private final static java.lang.String tileXYtoQuadKey(int tileX,
         int tileY,
         int zoomLevel)
```

Converts tile XY coordinates into a QuadKey at a specified level of detail.

Parameters:

`tileX` -

Tile X coordinate.

`tileY` -

Tile Y coordinate.

`zoomLevel` -

Level of detail, from 1 (lowest detail) to 23 (highest detail).

Returns:

A string containing the QuadKey.

quadKeyToTileXY

```
private static <any> quadKeyToTileXY(java.lang.String quadKey)
```

Converts a QuadKey into tile XY coordinates.

Parameters:

`quadKey` -

QuadKey of the tile.

Returns:

Conversion results. First parameter is a pair of tile X/Y values, second is zoom level.

(continued from last page)

tileXYToPixelXY

```
private final static <any> tileXYToPixelXY(int tileX,
         int tileY)
```

Converts tile XY coordinates into pixel XY coordinates of the upper-left pixel of the specified tile.

Parameters:

`tileX` -

Tile X coordinate.

`tileY` -

Tile Y coordinate.

Returns:

Pair of pixel X/Y values.

---

pixelXYToLatLong

```
private final static GeoPoint pixelXYToLatLong(int pixelX,
         int pixelY,
         int zoomLevel)
```

Converts a pixel from pixel XY coordinates at a specified level of detail into latitude/longitude WGS-84 coordinates (in degrees).

Parameters:

`pixelX` -

X coordinate of the point, in pixels.

`pixelY` -

Y coordinates of the point, in pixels.

`zoomLevel` -

Level of detail, from 1 (lowest detail) to 23 (highest detail).

Returns:

GeoPoint instance with latitude / longitude.

---

clip

```
private final static double clip(double n,
         double minValue,
         double maxValue)
```

Clips a number to the specified minimum and maximum values.

Parameters:

`n` -

The number to clip.

`minValue` -

Minimum allowable value.

`maxValue` -

Maximum allowable value.

Returns:

The clipped value.

(continued from last page)

mapSize

```
private final static int mapSize(int zoomLevel)
```

Determines the map width and height (in pixels) at a specified level of detail.

Parameters:

`zoomLevel` -

Level of detail, from 1 (lowest detail) to 23 (highest detail).

Returns:

The map width and height in pixels.

validateQuadKey

```
private final static void validateQuadKey(java.lang.String quadKey)
```

validateOpacity

```
private final static void validateOpacity(int opacity)
```

validatePenWidth

```
private final static void validatePenWidth(int penWidth)
```

validateFormat

```
private final static void validateFormat(int format)
```

validateCoverage

```
private final static void validateCoverage(int coverage)
```

validateFrcLevel

```
private final static void validateFrcLevel(int frcLevel)
```

validateZoom

```
private final static void validateZoom(int zoom)
```

(continued from last page)

validateGeoPoint

```
private final static void validateGeoPoint(GeoPoint center,
         java.lang.String errorMessage)
```

validateWidth

```
private final static void validateWidth(int width)
```

validateHeight

```
private final static void validateHeight(int height)
```

resolveRegion

```
private final static InrixRequest.ServerRegion resolveRegion(GeoPoint point)
```

resolveFormat

```
private final static java.lang.String resolveFormat(int type)
```

resolveFrcLevel

```
private final static java.lang.String resolveFrcLevel(int frcLevel)
```

com.inrix.sdk
Class TileManager.ACTIONS

```
java.lang.Object
   |-java.lang.Enum
      |-com.inrix.sdk.TileManager.ACTIONS
```

All Implemented Interfaces:
java.io.Serializable, java.lang.Comparable

---

public static final class **TileManager.ACTIONS**
extends java.lang.Enum

Fields

GET_TRAFFIC_TILE

```
public static final com.inrix.sdk.TileManager.ACTIONS GET_TRAFFIC_TILE
```

Constructors

TileManager.ACTIONS

```
private TileManager.ACTIONS()
```

Methods

values

```
public static TileManager.ACTIONS[] values()
```

---

valueOf

```
public static TileManager.ACTIONS valueOf(java.lang.String name)
```

com.inrix.sdk
Class TileManager.TileOptions

```
java.lang.Object
   |
   +-com.inrix.sdk.TileManager.TileOptions
```

public static final class **TileManager.TileOptions**
extends java.lang.Object

An object through which you can provide a configuration for the tile.

Fields

NO_VALUE

```
static final int NO_VALUE
```

Constant value: **-1**

width

```
private int width
```

height

```
private int height
```

opacity

```
private int opacity
```

penWidth

```
private int penWidth
```

format

```
private int format
```

frcLevel

```
private int frcLevel
```

(continued from last page)

coverage

```
private int coverage
```

speedBucketId

```
private int speedBucketId
```

Constructors

TileManager.TileOptions

```
public TileManager.TileOptions()
```

Initializes a new instance of TileOptions.

TileManager.TileOptions

```
public TileManager.TileOptions(TileManager.TileOptions in)
```

Initializes a new instance of TileOptions using another instance.

Parameters:

`in` - An instance to initialize `TileManager.TileOptions` from.

Methods

getAction

```
final java.lang.String getAction()
```

Action name for a current operation.

Returns:

Action name for the current operation.

setWidth

```
public final TileManager.TileOptions setWidth(int width)
```

Sets the tile width. Default value: `TileManager.TILE_DEFAULT_WIDTH`.

Parameters:

`width` -

Traffic tile width.

Returns:

Current instance.

(continued from last page)

getWidth

`final int` **`getWidth`**`()`

Gets the tile width.

Returns:
Tile width.

setHeight

`public final` `TileManager.TileOptions` **`setHeight`**`(int height)`

Sets the height of the tile. Default value: `TileManager.TILE_DEFAULT_HEIGHT`.

Parameters:
`height` -

Traffic tile height.

Returns:
Current instance.

getHeight

`final int` **`getHeight`**`()`

Gets the height of the tile.

Returns:
Tile height.

setOpacity

`public final` `TileManager.TileOptions` **`setOpacity`**`(int opacity)`

Sets the opacity for the tile. Default value: `TileManager.TILE_DEFAULT_OPACITY`.

Parameters:
`opacity` -

Traffic tile opacity. Values should be in the range from 0 to 100.

Returns:
Current instance.

getOpacity

`final int` **`getOpacity`**`()`

Gets the tile opacity.

Returns:
Tile opacity.

setPenWidth

`public final` `TileManager.TileOptions` **`setPenWidth`**`(int penWidth)`

(continued from last page)

Sets a pen width for the tile. Default value: `TileManager.TILE_DEFAULT_PEN_WIDTH`.

Parameters:

`penWidth` -

The pen width of the traffic overlay, in pixels.

Returns:

Current instance.

---

getPenWidth

```
final int getPenWidth()
```

Gets a pen width.

Returns:

Pen width.

---

setFormat

```
public final TileManager.TileOptions setFormat(int format)
```

Sets the format of the tile. Default value: `TileManager.TILE_FORMAT_GIF`.

Parameters:

`format` -

The format of the traffic tile to be returned.
Supported values are: `TileManager.TILE_FORMAT_PNG` or `TileManager.TILE_FORMAT_GIF`.

Returns:

Current instance.

---

getFormat

```
final int getFormat()
```

Gets the tile format.

Returns:

Current tile format.

---

setFrcLevel

```
public final TileManager.TileOptions setFrcLevel(int frcLevel)
```

Sets the FRC level(s) for a tile. Default value: `TileManager.TILE_FRC_LEVEL_ALL`.

Parameters:

(continued from last page)

`frcLevel` -

The Federal Road Classification code of the TMCs to return. Can be one or a combination of the following values:

- `TileManager.TILE_FRC_LEVEL_ALL`
- `TileManager.TILE_FRC_LEVEL_1`
- `TileManager.TILE_FRC_LEVEL_2`
- `TileManager.TILE_FRC_LEVEL_3`
- `TileManager.TILE_FRC_LEVEL_4`
- `TileManager.TILE_FRC_LEVEL_5`
- `TileManager.TILE_FRC_LEVEL_6`
- `TileManager.TILE_FRC_LEVEL_7`

Returns:

Current instance.

getFrcLevel

`final int` **`getFrcLevel`**`()`

Gets the tile FRC level.

Returns:

Tile FRC level.

setCoverage

`public final TileManager.TileOptions` **`setCoverage`**`(int coverage)`

Sets the coverage for a tile. Default value is specified per vendor.

Parameters:

`coverage` -

Indicates the type of coverage to return: core or extended. The default is specified per vendor.

- `TileManager.TILE_COVERAGE_ALL`
- `TileManager.TILE_COVERAGE_HISTORICAL`
- `TileManager.TILE_COVERAGE_REALTIME_CORE`
- `TileManager.TILE_COVERAGE_REALTIME_CORE_EXTENDED`
- `TileManager.TILE_COVERAGE_REALTIME_EXTENDED`
- `TileManager.TILE_COVERAGE_REFERENCE`

Returns:

Current instance.

getCoverage

`final int` **`getCoverage`**`()`

Gets a coverage value for a tile.

Returns:

(continued from last page)

Tile coverage value.

setSpeedBucketId

`public final TileManager.TileOptions setSpeedBucketId(int speedBucketId)`

Sets a speed bucket id for a tile.

Parameters:

`speedBucketId` -

A speed bucket is a range of speeds or percentages that is used to categorize TMC data.

Returns:

Current instance.

getSpeedBucketId

`final int getSpeedBucketId()`

Gets a speed bucket id for a tile.

Returns:

Tile speed bucket id.

com.inrix.sdk
Class UserManager

```
java.lang.Object
   |
   +-com.inrix.sdk.UserManager
```

public class **UserManager**
extends java.lang.Object

The UserManager, allows to execute user related operation.

Fields

testRegisterCall

```
private com.inrix.sdk.network.request.UserRegisterRequest testRegisterCall
```

Constructors

UserManager

```
public UserManager()
```

Methods

isUserAvailable

```
public ICancellable isUserAvailable(UserManager.IsUserAvailableOptions params,
        UserManager.ILoginOperationResponseListener listener)
  throws InrixException
```

Checks if is user available.

Parameters:
`listener` - the listener, of operation result
`params` - request params

Returns:
the ICancellable interface to cancel action

registerUser

```
public ICancellable registerUser(UserManager.RegisterUserOptions params,
        UserManager.ILoginOperationResponseListener listener)
  throws InrixException
```

Register user

Parameters:
`listener` - the listener, for operation result

(continued from last page)

`params` - - request params

Returns:
the ICancellable interface to cancel action

logOut

```
public boolean logOut()
```

Log out, clear local user cache.

Returns:
true, if successful

isLoggedIn

```
public boolean isLoggedIn()
```

Checks if is logged in.

Returns:
true, if is logged in

resetPassword

```
public ICancellable resetPassword(UserManager.ResetPasswordOptions params,
        UserManager.ILoginOperationResponseListener listener)
  throws InrixException
```

Reset password if email exists in a system, otherwise error

Parameters:
`listener` - the listener, for operation result
`params` - - request params

Returns:
the ICancellable interface to cancel action

changePassword

```
public ICancellable changePassword(UserManager.ChangePasswordOptions params,
        UserManager.ILoginOperationResponseListener listener)
  throws InrixException
```

Changes user password.

Parameters:
`listener` - the listener, for operation result
`params` - - request params

Returns:
the ICancellable interface to cancel action

getRegisterCall

```
public UserRegisterRequest getRegisterCall()
```

com.inrix.sdk
Class UserManager.EmailOptions

```
java.lang.Object
   |
   +-com.inrix.sdk.UserManager.EmailOptions
```

Direct Known Subclasses:
RegisterUserOptions, ResetPasswordOptions, IsUserAvailableOptions

---

private static class **UserManager.EmailOptions**
extends java.lang.Object

Fields

email

`private java.lang.String email`

Constructors

UserManager.EmailOptions

`public UserManager.EmailOptions(java.lang.String email)`

Parameters:
`email`

Methods

getEmail

`java.lang.String getEmail()`

---

setEmail

`public UserManager.EmailOptions setEmail(java.lang.String email)`

email address to check

Parameters:
`email`

Returns:

com.inrix.sdk
Class UserManager.IsUserAvailableOptions

```
java.lang.Object
   ┗-com.inrix.sdk.UserManager.EmailOptions
      ┗-com.inrix.sdk.UserManager.IsUserAvailableOptions
```

public static class **UserManager.IsUserAvailableOptions**
extends UserManager.EmailOptions

Constructors

UserManager.IsUserAvailableOptions

```
public UserManager.IsUserAvailableOptions(java.lang.String email)
```

com.inrix.sdk
Class UserManager.ResetPasswordOptions

```
java.lang.Object
   |-com.inrix.sdk.UserManager.EmailOptions
      |-com.inrix.sdk.UserManager.ResetPasswordOptions
```

public static class **UserManager.ResetPasswordOptions**
extends UserManager.EmailOptions

Constructors

UserManager.ResetPasswordOptions

```
public UserManager.ResetPasswordOptions(java.lang.String email)
```

com.inrix.sdk
Class UserManager.RegisterUserOptions

```
java.lang.Object
   ┗-com.inrix.sdk.UserManager.EmailOptions
      ┗-com.inrix.sdk.UserManager.RegisterUserOptions
```

public static class **UserManager.RegisterUserOptions**
extends UserManager.EmailOptions

Fields

password

```
private java.lang.String password
```

Constructors

UserManager.RegisterUserOptions

```
public UserManager.RegisterUserOptions(java.lang.String email,
                                       java.lang.String password)
```

Methods

getPassword

```
java.lang.String getPassword()
```

setPassword

```
public UserManager.RegisterUserOptions setPassword(java.lang.String password)
```

com.inrix.sdk
Class UserManager.ChangePasswordOptions

```
java.lang.Object
   |
   +-com.inrix.sdk.UserManager.ChangePasswordOptions
```

public static class **UserManager.ChangePasswordOptions**
extends java.lang.Object

Fields

oldPassword

```
private java.lang.String oldPassword
```

newPassword

```
private java.lang.String newPassword
```

Constructors

UserManager.ChangePasswordOptions

```
public UserManager.ChangePasswordOptions(java.lang.String oldPassword,
                                         java.lang.String newPassword)
```

Methods

getOldPassword

```
java.lang.String getOldPassword()
```

setOldPassword

```
public UserManager.ChangePasswordOptions setOldPassword(java.lang.String oldPassword)
```

getNewPassword

```
java.lang.String getNewPassword()
```

setNewPassword

public UserManager.ChangePasswordOptions **setNewPassword**(java.lang.String newPassword)

com.inrix.sdk
Interface UserManager.ILoginOperationResponseListener

All Superinterfaces:
IDataResponseListener

---

public interface **UserManager.ILoginOperationResponseListener**
extends IDataResponseListener

The listener interface for receiving ILoginOperationResponse events. The class that is interested in processing a ILoginOperationResponse event implements this interface, and the object created with that class is registered with a component using the component's `addILoginOperationResponseListener` method. When the ILoginOperationResponse event occurs, that object's appropriate method is invoked.

See Also:
`ILoginOperationResponseEvent`

---

com.inrix.sdk
Class UserManager.LoginProcessor

```
java.lang.Object
   |
   +-com.inrix.sdk.UserManager.LoginProcessor
```

All Implemented Interfaces:
ICancellable

---

private class **UserManager.LoginProcessor**
extends java.lang.Object
implements ICancellable

The Class LoginProcessor, 2 step login process

Fields

callback

```
private final com.inrix.sdk.UserManager.ILoginOperationResponseListener callback
```

---

registerCall

```
private com.inrix.sdk.network.request.UserRegisterRequest registerCall
```

---

authRequest

```
private com.inrix.sdk.network.request.internal.DeviceAuthRequest authRequest
```

Constructors

UserManager.LoginProcessor

```
public UserManager.LoginProcessor(UserManager.ILoginOperationResponseListener
loginCallback)
```

Instantiates a new login processor.

Parameters:
`loginCallback` - the login callback

Methods

process

```
public void process(java.lang.String email,
         java.lang.String password)
```

(continued from last page)

Start login process

Parameters:

`email` - the email
`password` - the password

---

auth

```
private void auth()
```

Send DeviceAuth request

---

cancel

```
public void cancel()
```

Package

com.inrix.sdk.exception

com.inrix.sdk.exception
Class InrixException

```
java.lang.Object
   ┗-java.lang.Throwable
      ┗-java.lang.Exception
         ┗-java.lang.RuntimeException
            ┗-java.lang.IllegalArgumentException
               ┗-java.security.InvalidParameterException
                  ┗-com.inrix.sdk.exception.InrixException
```

All Implemented Interfaces:
java.io.Serializable

---

public class **InrixException**
extends java.security.InvalidParameterException

Fields

serialVersionUID

`private static final long` **`serialVersionUID`**

Serialization version number (1.0)
Constant value: **`10`**

INVALID_GEOPOINT

`public static final int` **`INVALID_GEOPOINT`**

Error code definitions
Constant value: **`1001`**

CALLBACK_MISSING

`public static final int` **`CALLBACK_MISSING`**

Constant value: **`1002`**

REQUEST_OPTIONS_MISSING

`public static final int` **`REQUEST_OPTIONS_MISSING`**

Constant value: **`1003`**

INVALID_RADIUS

`public static final int` **`INVALID_RADIUS`**

(continued from last page)

Constant value: **1004**

INVALID_GAS_STATION_ID

`public static final int` **INVALID_GAS_STATION_ID**

Constant value: **1005**

INVALID_INTERVAL

`public static final int` **INVALID_INTERVAL**

Constant value: **1006**

INVALID_SPEED_FACTOR

`public static final int` **INVALID_SPEED_FACTOR**

Constant value: **1007**

INVALID_IDS_LIST

`public static final int` **INVALID_IDS_LIST**

Constant value: **1008**

INVALID_OUTPUT_FIELDS

`public static final int` **INVALID_OUTPUT_FIELDS**

Constant value: **1009**

INVALID_EMAIL_FORMAT

`public static final int` **INVALID_EMAIL_FORMAT**

Constant value: **1010**

INVALID_EMAIL

`public static final int` **INVALID_EMAIL**

Constant value: **1011**

INVALID_PASSWORD

`public static final int` **INVALID_PASSWORD**

Constant value: **1012**

INVALID_NEW_PASSWORD

public static final int **INVALID_NEW_PASSWORD**

Constant value: **1013**

USER_LOGGED_IN

public static final int **USER_LOGGED_IN**

Constant value: **1014**

NOT_LOGGED_IN

public static final int **NOT_LOGGED_IN**

Constant value: **1015**

INVALID_START_POINT

public static final int **INVALID_START_POINT**

Constant value: **1016**

INVALID_END_POINT

public static final int **INVALID_END_POINT**

Constant value: **1017**

INVALID_TOLERANCE

public static final int **INVALID_TOLERANCE**

Constant value: **1018**

INVALID_WAY_POINTS

public static final int **INVALID_WAY_POINTS**

Constant value: **1019**

INVALID_TRAVEL_TIME_COUNT

public static final int **INVALID_TRAVEL_TIME_COUNT**

Constant value: **1020**

(continued from last page)

INVALID_TRAVEL_TIME_INTERVAL

`public static final int` **`INVALID_TRAVEL_TIME_INTERVAL`**

Constant value: **`1021`**

INVALID_TRAVEL_TIME_ROUTE

`public static final int` **`INVALID_TRAVEL_TIME_ROUTE`**

Constant value: **`1022`**

errorCode

`private int` **`errorCode`**

error code

errorMessage

`private java.lang.String` **`errorMessage`**

error message

errorMessageMap

`private static java.util.HashMap` **`errorMessageMap`**

private `java.util.HashMap` of error codes and error messages

Constructors

InrixException

`public` **`InrixException`**`(int errorCode)`

Constructor

Parameters:

`errorCode` - - the error code to initialize the exception with. This will initialize the error message of the `java.security.InvalidParameterException`

Methods

getErrorCode

`public int` **`getErrorCode`**`()`

Get the error code of this exception

Returns:

- the error code that caused the exception

getErrorMessage

`public java.lang.String` **`getErrorMessage`**`()`

(continued from last page)

Get the message associated with the error code

Returns:

- the error message. If the error is not defined the method returns **Unknown error code** where is the error code

getErrorMessageString

```
private static java.lang.String getErrorMessageString(int errorCode)
```

return the error message for a defined error code. If the error is not registered this will return a unknown error code message with the error code

Parameters:

`errorCode` - - the error code for which the error message is requested

Returns:

- the error message if found else return a Unknown error message

InitializeErrorMap

```
private static java.util.HashMap InitializeErrorMap()
```

Initialize the error message map with the error codes and error messages

Returns:

Package
com.inrix.sdk.model

com.inrix.sdk.model
Class DeviceAuth

```
java.lang.Object
   ┗-com.inrix.sdk.parser.json.JSONEntityBase
      ┗-com.inrix.sdk.model.DeviceAuth
```

public class **DeviceAuth**
extends JSONEntityBase

Fields

INRIX_TIME_FORMAT

```
private final java.lang.String INRIX_TIME_FORMAT
```

Constant value: **yyyy-MM-dd'T'HH:mm:ss'Z'**

INRIX_DEFAULT_TIMEZONE

```
private final java.lang.String INRIX_DEFAULT_TIMEZONE
```

Constant value: **UTC**

expirationDate

```
private java.util.Date expirationDate
```

entity

```
private com.inrix.sdk.model.DeviceAuth.DeviceAuthEntity entity
```

Constructors

DeviceAuth

```
public DeviceAuth(java.lang.String token,
                  java.lang.String expirationTime,
                  java.lang.String euAPIServer,
                  java.lang.String naAPIServer,
                  java.lang.String euTTSServer,
                  java.lang.String naTTSServer)
```

Methods

(continued from last page)

getEntity

public DeviceAuth.DeviceAuthEntity **getEntity**()

---

isExpired

public boolean **isExpired**()

---

getExpirationDate

public java.util.Date **getExpirationDate**()

---

setExpirationDate

public void **setExpirationDate**(java.util.Date value)

com.inrix.sdk.model
Class DeviceAuth.DeviceAuthEntity

```
java.lang.Object
   |
   +-com.inrix.sdk.model.DeviceAuth.DeviceAuthEntity
```

public class **DeviceAuth.DeviceAuthEntity**
extends java.lang.Object

Fields

token

`public java.lang.String` **`token`**

euAPIServer

`public java.lang.String` **`euAPIServer`**

euTTSServer

`public java.lang.String` **`euTTSServer`**

naAPIServer

`public java.lang.String` **`naAPIServer`**

naTTSServer

`public java.lang.String` **`naTTSServer`**

tokenExpireDateUTC

`public java.lang.String` **`tokenExpireDateUTC`**

Constructors

(continued from last page)

DeviceAuth.DeviceAuthEntity

```
public DeviceAuth.DeviceAuthEntity()
```

com.inrix.sdk.model
Class DeviceRegister

```
java.lang.Object
   |-com.inrix.sdk.parser.xml.XMLEntityBase
      |-com.inrix.sdk.model.DeviceRegister
```

public class **DeviceRegister**
extends XMLEntityBase

Fields

deviceId

```
public java.lang.String deviceId
```

Constructors

DeviceRegister

```
public DeviceRegister()
```

com.inrix.sdk.model
Class GasStation

```
java.lang.Object
   |
   +-com.inrix.sdk.model.GasStation
```

public class **GasStation**
extends java.lang.Object

Fields

brand

```
private java.lang.String brand
```

id

```
private java.lang.String id
```

latitude

```
private double latitude
```

longitude

```
private double longitude
```

address

```
private com.inrix.sdk.model.GasStation.Address address
```

productList

```
private java.util.List productList
```

Constructors

(continued from last page)

GasStation

```
public GasStation(java.lang.String id,
                  java.lang.String brand,
                  double latitude,
                  double longitude)
```

Constructor

Parameters:

`id`
`brand`
`latitude`
`longitude`

Methods

getID

```
public java.lang.String getID()
```

Return the INRIX id for this gas station

Returns:

ID

---

getBrand

```
public java.lang.String getBrand()
```

Returns the gas station brand

Returns:

Brand

---

getLatitude

```
public double getLatitude()
```

Get the Latitude in which the gas station is located

Returns:

Latitude

---

getLongitude

```
public double getLongitude()
```

Get the Longitude in which the gas station is located

Returns:

Longitude

---

getAddress

```
public GasStation.Address getAddress()
```

Get the Address of the gas station

(continued from last page)

Returns:
Address

getDistance

`public double getDistance(GeoPoint from)`

Get the distance to the gas station from this point

Parameters:
`from` - - the point to calculate the distance from

Returns:
distance to the gas station (unit based on `UserPreferences.setSettingUnits(UNIT unit)`)

getProducts

`public java.util.List getProducts()`

Get the product list available at this gas station

Returns:
List of Products the gas station sells

setID

`public void setID(java.lang.String id)`

Set the INRIX ID for this gas station

Parameters:
`id`

setBrand

`public void setBrand(java.lang.String brand)`

Set the brand for this gas station

Parameters:
`brand`

setLatitude

`public void setLatitude(double latitude)`

Set the Latitude in which the gas station is located

setLongitude

`public void setLongitude(double longitude)`

Set the Longitude in which the gas station is located

setAddress

`public void setAddress(GasStation.Address address)`

(continued from last page)

Set the Address of the gas station

setProducts

```
public void setProducts(java.util.List productList)
```

Set the product list available at this gas station

hasProducts

```
public boolean hasProducts()
```

Returns true if the product list is not empty. This method can be used to check if the requested products are available at the resulting gas station

Returns:

- true if the product list is not empty otherwise, return false

com.inrix.sdk.model
Class GasStation.Product

```
java.lang.Object
   |
   +-com.inrix.sdk.model.GasStation.Product
```

public class **GasStation.Product**
extends java.lang.Object

Class representing a product available in the gas station

Fields

type

```
private java.lang.String type
```

price

```
private float price
```

currencyCode

```
private java.lang.String currencyCode
```

updateDateStr

```
private java.lang.String updateDateStr
```

Constructors

GasStation.Product

```
public GasStation.Product()
```

Default constructor

GasStation.Product

```
public GasStation.Product(java.lang.String type,
                          float price,
                          java.lang.String currencyCode,
                          java.lang.String updateDate)
```

Constructor

(continued from last page)

Parameters:

`type` - - Product type (Diesel, Regular, MidGrade, Premium)
`price` - - price of this prouct
`currencyCode` - - Currency code (USD EUR etc)
`updateDate` - - Date when the information was updated (should be formatted in INRIX_DATE_FORMAT)

Methods

getType

```
public java.lang.String getType()
```

Get the Product type

Returns:

---

getPrice

```
public float getPrice()
```

Get the price of the product

Returns:

---

getCurrencyCode

```
public java.lang.String getCurrencyCode()
```

Get the Currency Code

Returns:

---

getUpdateDate

```
public java.util.Date getUpdateDate()
```

Get the Update date

Returns:

---

getUpdateDateString

```
public java.lang.String getUpdateDateString()
```

Get the update date as a String

Parameters:

`strDateString`

---

setType

```
public void setType(java.lang.String type)
```

Set the Product type

(continued from last page)

Returns:

setPrice

`public void **setPrice**(float price)`

Set the price of the product

Returns:

setCurrencyCode

`public void **setCurrencyCode**(java.lang.String currencyCode)`

Set the Currency Code

Returns:

setUpdateDateString

`public void **setUpdateDateString**(java.lang.String strDateString)`

Set the update date as a String

Parameters:
`strDateString`

com.inrix.sdk.model
Class GasStation.Address

```
java.lang.Object
   ┗-com.inrix.sdk.model.GasStation.Address
```

public class **GasStation.Address**
extends java.lang.Object

Class representing the Address of a Gas Station

Fields

name

`private java.lang.String name`

street

`private java.lang.String street`

city

`private java.lang.String city`

state

`private java.lang.String state`

zipCode

`private java.lang.String zipCode`

phoneNumber

`private java.lang.String phoneNumber`

Constructors

(continued from last page)

GasStation.Address

```
public GasStation.Address()
```

Default Constructor

GasStation.Address

```
public GasStation.Address(java.lang.String name,
                          java.lang.String street,
                          java.lang.String city,
                          java.lang.String state,
                          java.lang.String zipCode,
                          java.lang.String phoneNumber)
```

Constructor

Parameters:

`name` - - Name of the Gas Station (CHEVRON etc)
`street` - - Street address of the gas station
`city` - - City in which the gas station is located
`state` - - State in which the gas station is located
`zipCode` - - Zip code of the gas station
`phoneNumber` - - phone number of the gas station

Methods

getName

```
public java.lang.String getName()
```

Get the gas station name

Returns:

---

getStreet

```
public java.lang.String getStreet()
```

Get the street address

Returns:

---

getCity

```
public java.lang.String getCity()
```

Get the city

Returns:

City

---

getState

```
public java.lang.String getState()
```

(continued from last page)

Get the state

Returns:
State

getZipCode

`public java.lang.String getZipCode()`

Get the zip code

Returns:
Zip Code

getPhoneNumber

`public java.lang.String getPhoneNumber()`

Get the phone number

Returns:
Phone Number

setName

`public void setName(java.lang.String name)`

Set the gas station name

setStreet

`public void setStreet(java.lang.String street)`

Set the street address

setCity

`public void setCity(java.lang.String city)`

Set the city

setState

`public void setState(java.lang.String state)`

Set the state

setZipCode

`public void setZipCode(java.lang.String zipCode)`

Set the zip code

setPhoneNumber

`public void setPhoneNumber(java.lang.String phoneNumber)`

Set the phone number

com.inrix.sdk.model
Class GasStationCollection

```
java.lang.Object
   |-com.inrix.sdk.parser.json.JSONEntityBase
      |-com.inrix.sdk.model.GasStationCollection
```

public class **GasStationCollection**
extends JSONEntityBase

Class containing the gas stations in the given radius or Box

Fields

gasStations

```
private java.util.List gasStations
```

Constructors

GasStationCollection

```
public GasStationCollection()
```

default constructor

Methods

getGasStations

```
public java.util.List getGasStations()
```

Get the list of gas stations

Returns:

com.inrix.sdk.model
Class GeoPoint

```
java.lang.Object
   ┗-com.inrix.sdk.model.GeoPoint
```

public final class **GeoPoint**
extends java.lang.Object

Represents a geographical location.

Fields

MIN_LATITUDE

```
private static final double MIN_LATITUDE
```

Constant value: **-90.0**

MAX_LATITUDE

```
private static final double MAX_LATITUDE
```

Constant value: **90.0**

MIN_LONGITUDE

```
private static final double MIN_LONGITUDE
```

Constant value: **-180.0**

MAX_LONGITUDE

```
private static final double MAX_LONGITUDE
```

Constant value: **180.0**

latitude

```
private final double latitude
```

longitude

```
private final double longitude
```

Constructors

(continued from last page)

GeoPoint

```
public GeoPoint(double latitude,
                double longitude)
```

Initializes a new instance of the GeoPoint. Lat should be within [-90;90], Lon should be within [-180;180]

Parameters:

`latitude` - Current latitude.
`longitude` - Current longitude.

Methods

isValid

```
public static boolean isValid(GeoPoint point)
```

Checks if is valid.

Parameters:

`point` - the point

Returns:

true, if is valid

---

getLatitude

```
public final double getLatitude()
```

Gets the current latitude value.

Returns:

Current latitude value.

---

getLongitude

```
public final double getLongitude()
```

Gets the current longitude value.

Returns:

Current longitude value.

---

toQueryParam

```
public final java.lang.String toQueryParam()
```

Converts current instance to the request parameter value.

Returns:

Current instance value formatted for request.

---

toString

```
public java.lang.String toString()
```

com.inrix.sdk.model
Class Incident

```
java.lang.Object
   |
   +-com.inrix.sdk.model.Incident
```

public class **Incident**
extends java.lang.Object

The Class Incident, describes main incident properties

Fields

id

```
private long id
```

version

```
private int version
```

type

```
private int type
```

severity

```
private int severity
```

latitude

```
private double latitude
```

longitude

```
private double longitude
```

impacting

```
private java.lang.String impacting
```

(continued from last page)

startTime

private java.lang.String **startTime**

endTime

private java.lang.String **endTime**

source

private java.lang.String **source**

eventCode

private java.lang.Integer **eventCode**

shortDescription

private com.inrix.sdk.model.Incident.Description **shortDescription**

fullDescription

private com.inrix.sdk.model.Incident.Description **fullDescription**

delayImpact

private com.inrix.sdk.model.Incident.DelayImpact **delayImpact**

parameterizedDescription

private com.inrix.sdk.model.Incident.ParameterizedDescription **parameterizedDescription**

community

private com.inrix.sdk.model.Incident.Community **community**

(continued from last page)

distance

```
private double distance
```

Constructors

Incident

```
public Incident()
```

Methods

getDistance

```
public double getDistance()
```

Gets the distance that was previously set.

Returns:
the distance

---

setDistance

```
public void setDistance(double value)
```

Sets the distance.

Parameters:
`value` - the new distance

---

getDistance

```
public double getDistance(GeoPoint from)
```

Get the distance to the gas station from this point

Parameters:
`from` - - the point to calculate the distance from

Returns:
distance to the gas station (unit based on `UserPreferences.setSettingUnits(UNIT unit)`)

---

getId

```
public long getId()
```

Get the id of the incident

Returns:
the id

---

getVersion

```
public int getVersion()
```

(continued from last page)

Get the version of the incident. Combined with the id uniquely identifies the incident

Returns:
the version

getType

```
public int getType()
```

Get the incident Type

Returns:
the type

getSeverity

```
public int getSeverity()
```

Get the severity of the incident. This value can be in the range of 0-4, with 4 indicating the highest severity.

Returns:
the severity

getLatitude

```
public double getLatitude()
```

Get the latitude of the incident

Returns:
the latitude

getLongitude

```
public double getLongitude()
```

Get the longitude of the incident

Returns:
the longitude

isImpacting

```
public boolean isImpacting()
```

Returns whether the incident is impacting traffic

Returns:
the impacting

getStartTime

```
public java.lang.String getStartTime()
```

Get the time the incident starts

Returns:
the startTime

getEventCode

`public java.lang.Integer getEventCode()`

Get the event code of the incident

Returns:
the eventCodeInt

getEndTime

`public java.lang.String getEndTime()`

Get the time the incident ends

Returns:
the endTime

getShortDescription

`public Incident.Description getShortDescription()`

Get the short description

Returns:
the short description

getFullDescription

`public Incident.Description getFullDescription()`

Get the full description

Returns:
the fullDescription

getParameterizedDescription

`public Incident.ParameterizedDescription getParameterizedDescription()`

Gets the parameterized description.

Returns:
the parameterized description

getDelayImpact

`public Incident.DelayImpact getDelayImpact()`

Gets the delay impact.

Returns:
the delay impact

getSource

`public java.lang.String getSource()`

(continued from last page)

Gets the source, present only in case of community reported

Returns:
the source name

getCommunity

`public Incident.Community getCommunity()`

Gets the source, present only in case of community reported

Returns:
the source name

com.inrix.sdk.model
Class Incident.DelayImpact

```
java.lang.Object
   |
   +-com.inrix.sdk.model.Incident.DelayImpact
```

public static class **Incident.DelayImpact**
extends java.lang.Object

The Class DelayImpact, impact of incident

Fields

typicalMinutes

```
private double typicalMinutes
```

freeFlowMinutes

```
private double freeFlowMinutes
```

distance

```
private double distance
```

abnormal

```
private boolean abnormal
```

Constructors

Incident.DelayImpact

```
public Incident.DelayImpact()
```

Methods

getTypicalMinutes

```
public double getTypicalMinutes()
```

(continued from last page)

Returns:
the typicalMinutes

getFreeFlowMinutes

`public double getFreeFlowMinutes()`

Returns:
the freeFlowMinutes

getDistance

`public double getDistance()`

Returns:
the distance of delay

isAbnormal

`public boolean isAbnormal()`

com.inrix.sdk.model
Class Incident.ParameterizedDescription

```
java.lang.Object
   |
   +-com.inrix.sdk.model.Incident.ParameterizedDescription
```

public static class **Incident.ParameterizedDescription**
extends java.lang.Object

The Class ParameterizedDescription, detail incident description Closed due to roadworks Spokane Street BOTH South Seattle Eastbound Westbound 34th Avenue 33rd Avenue between and

Fields

eventCode

```
private int eventCode
```

eventText

```
private java.lang.String eventText
```

roadName

```
private java.lang.String roadName
```

direction

```
private java.lang.String direction
```

fromLocation

```
private java.lang.String fromLocation
```

toLocation

```
private java.lang.String toLocation
```

crossroad1

```
private java.lang.String crossroad1
```

(continued from last page)

crossroad2

`private java.lang.String crossroad2`

position1

`private java.lang.String position1`

position2

`private java.lang.String position2`

Constructors

Incident.ParameterizedDescription

`public Incident.ParameterizedDescription()`

Methods

getEventCode

`public int getEventCode()`

Returns:
the eventCode

getEventText

`public java.lang.String getEventText()`

Returns:
the eventText

getRoadName

`public java.lang.String getRoadName()`

Returns:
the roadName

getDirection

```
public java.lang.String getDirection()
```

Returns:
the direction

getFromLocation

```
public java.lang.String getFromLocation()
```

Returns:
the fromLocation

getToLocation

```
public java.lang.String getToLocation()
```

Returns:
the toLocation

getPosition1

```
public java.lang.String getPosition1()
```

Returns:
the position1

getPosition2

```
public java.lang.String getPosition2()
```

Returns:
the position2

com.inrix.sdk.model
Class Incident.Description

```
java.lang.Object
   |
   +-com.inrix.sdk.model.Incident.Description
```

public static class **Incident.Description**
extends java.lang.Object

The Class Description.

Fields

language

```
private java.lang.String language
```

value

```
private java.lang.String value
```

Constructors

Incident.Description

```
public Incident.Description()
```

Methods

getValue

```
public java.lang.String getValue()
```

Returns:
the value

getLanguage

```
public java.lang.String getLanguage()
```

Returns:
the language

com.inrix.sdk.model
Class Incident.Community

```
java.lang.Object
   |
   +-com.inrix.sdk.model.Incident.Community
```

public static class **Incident.Community**
extends java.lang.Object

The Class Community, describes contributor and level of accuracy

Fields

accuracy

```
private java.lang.String accuracy
```

contributor

```
private com.inrix.sdk.model.Incident.Contributor contributor
```

Constructors

Incident.Community

```
public Incident.Community()
```

Methods

getAccuracy

```
public java.lang.String getAccuracy()
```

Returns:
the accuracy

getContributor

```
public Incident.Contributor getContributor()
```

Returns:
the contributor

com.inrix.sdk.model
Class Incident.Contributor

```
java.lang.Object
   |
   +-com.inrix.sdk.model.Incident.Contributor
```

public static class **Incident.Contributor**
extends java.lang.Object

The Class Contributor, describes info about reporter

Fields

name

```
private java.lang.String name
```

trustLevel

```
private java.lang.String trustLevel
```

isReporter

```
private boolean isReporter
```

Constructors

Incident.Contributor

```
public Incident.Contributor()
```

Methods

getName

```
public java.lang.String getName()
```

Returns:
the name

(continued from last page)

getTrustLevel

```
public java.lang.String getTrustLevel()
```

Gets the trust level.

Returns:
the trust level

---

isReporter

```
public boolean isReporter()
```

Checks if is reporter.

Returns:
true, if is reporter

com.inrix.sdk.model
Class IncidentCollection

```
java.lang.Object
   |-com.inrix.sdk.parser.xml.XMLEntityBase
      |-com.inrix.sdk.model.IncidentCollection
```

public class **IncidentCollection**
extends XMLEntityBase

Fields

incidents

```
private java.util.List incidents
```

Constructors

IncidentCollection

```
public IncidentCollection()
```

Methods

getIncidents

```
public java.util.List getIncidents()
```

validate

```
private void validate()
```

Validate received incidents. If there was empty incident (w/o ID) - get rid of it.

com.inrix.sdk.model
Class LastLocationsUpdate

```
java.lang.Object
   ┗-com.inrix.sdk.parser.json.JSONEntityBase
      ┗-com.inrix.sdk.model.LastLocationsUpdate
```

public class **LastLocationsUpdate**
extends JSONEntityBase

Fields

INRIX_TIME_FORMAT

```
private final java.lang.String INRIX_TIME_FORMAT
```

Constant value: **yyyy-MM-dd'T'HH:mm:ss'Z'**

INRIX_DEFAULT_TIMEZONE

```
private final java.lang.String INRIX_DEFAULT_TIMEZONE
```

Constant value: **UTC**

result

```
private com.inrix.sdk.model.Result result
```

lastLocationsUpdate

```
private java.util.Date lastLocationsUpdate
```

lastCustomRoutesUpdate

```
private java.util.Date lastCustomRoutesUpdate
```

lastDepartureAlertsUpdate

```
private java.util.Date lastDepartureAlertsUpdate
```

Constructors

(continued from last page)

LastLocationsUpdate

`public LastLocationsUpdate()`

Methods

getLastLocationsUpdate

`public java.util.Date getLastLocationsUpdate()`

Get last known locations update timestamp. This value changes when you create/delete/update any location

Returns:
last update time or NULL if locations were never changed

---

getLastCustomRoutesUpdate

`public java.util.Date getLastCustomRoutesUpdate()`

Get last known custom routes update timestamp. This value changes when you create/delete/update custom routes

Returns:
last update time or NULL if custom routes were never changed

---

getLastDepartureAlertsUpdate

`public java.util.Date getLastDepartureAlertsUpdate()`

Get last known departure alerts update timestamp. This value changes when you create/delete/update departure alerts

Returns:
last update time or NULL if departure alerts were never changed

---

getDateFromString

`private java.util.Date getDateFromString(java.lang.String str)`

com.inrix.sdk.model
Class Location

```
java.lang.Object
   |
   +-com.inrix.sdk.model.Location
```

public class **Location**
extends java.lang.Object

Fields

name

```
private java.lang.String name
```

locationType

```
private int locationType
```

address

```
private java.lang.String address
```

consumerId

```
private java.lang.String consumerId
```

customData

```
private java.lang.String customData
```

locationId

```
private long locationId
```

latitude

```
private double latitude
```

longitude

```
private double longitude
```

order

```
private int order
```

Constructors

Location

```
public Location(long locationId,
                java.lang.String name,
                int type,
                java.lang.String address,
                java.lang.String customData,
                double lat,
                double lon,
                int order)
```

Methods

getName

```
public java.lang.String getName()
```

getOrder

```
public int getOrder()
```

getGeoPoint

```
public GeoPoint getGeoPoint()
```

getCustomData

```
public java.lang.String getCustomData()
```

getLocationType

```
public int getLocationType()
```

getAddress

```
public java.lang.String getAddress()
```

getLocationId

```
public long getLocationId()
```

com.inrix.sdk.model
Class LocationsCollection

```
java.lang.Object
   |-com.inrix.sdk.parser.json.JSONEntityBase
      |-com.inrix.sdk.model.LocationsCollection
```

public class **LocationsCollection**
extends JSONEntityBase

Fields

locations

```
private java.util.List locations
```

Constructors

LocationsCollection

```
public LocationsCollection()
```

Methods

getLocations

```
public java.util.List getLocations()
```

com.inrix.sdk.model
Class ParkingLot

```
java.lang.Object
   |
   +-com.inrix.sdk.model.ParkingLot
```

public final class **ParkingLot**
extends java.lang.Object

Represents information about a single parking lot.

Fields

id

```
private int id
```

name

```
private java.lang.String name
```

latitude

```
private double latitude
```

longitude

```
private double longitude
```

staticContent

```
private com.inrix.sdk.model.ParkingLot.StaticContent staticContent
```

dynamicContent

```
private com.inrix.sdk.model.ParkingLot.DynamicContent dynamicContent
```

Constructors

(continued from last page)

ParkingLot

```
public ParkingLot()
```

Methods

getId

```
public final int getId()
```

Gets an Id of the parking lot.

Returns:
Id of the parking lot; null if information is not available.

---

getName

```
public final java.lang.String getName()
```

Gets the name of the parking lot.

Returns:
Name of the parking lot; null if information is not available.

---

getLatitude

```
public final double getLatitude()
```

Gets the latitude of the parking lot.

Returns:
Parking lot latitude; `Double.NaN` if information is not available.

---

getLongitude

```
public final double getLongitude()
```

Gets the longitude of the parking lot.

Returns:
Parking lot longitude; `Double.NaN` if information is not available.

---

getGeoPoint

```
public final GeoPoint getGeoPoint()
```

Gets the geopoint of the parking lot location.

Returns:
Parking lot location; null if latitude/longitude information is not available.

---

getDistance

```
public double getDistance(GeoPoint from)
```

(continued from last page)

Get the distance to the gas station from this point

Parameters:

`from` - - the point to calculate the distance from

Returns:

distance to the gas station (unit based on `UserPreferences.setSettingUnits(UNIT unit)`)

---

getStaticContent

`public final ParkingLot.StaticContent getStaticContent()`

Gets the static content, information about parking lot that doesn't change frequently.

Returns:

Static information about parking lot.

---

getDynamicContent

`public final ParkingLot.DynamicContent getDynamicContent()`

Gets the frequently changing information about the parking lot.

Returns:

Frequently changing information about the parking lot; null if information is not available.

com.inrix.sdk.model
Class ParkingLot.StaticContent

```
java.lang.Object
   |
   +-com.inrix.sdk.model.ParkingLot.StaticContent
```

public static final class **ParkingLot.StaticContent**
extends java.lang.Object

Represents the static, not frequently changing attributes of a parking lot.

Fields

geometry

```
private java.lang.String geometry
```

information

```
private com.inrix.sdk.model.ParkingLot.Information information
```

specification

```
private com.inrix.sdk.model.ParkingLot.Specification specification
```

openingHours

```
private com.inrix.sdk.model.ParkingLot.OpeningHours openingHours
```

paymentMethods

```
private com.inrix.sdk.model.ParkingLot.PaymentMethods paymentMethods
```

pricing

```
private java.util.List pricing
```

Constructors

(continued from last page)

ParkingLot.StaticContent

`public ParkingLot.StaticContent()`

Methods

getGeometry

`public final java.lang.String getGeometry()`

Gets the outline of parking lot or center of parking lot (if 1 point). Geometry is encoded using polyline algorithm format described in: Encoded Polyline Algorithm Format

Returns:
Outline or center of the parking lot; null if information is not available.

---

getInformation

`public final ParkingLot.Information getInformation()`

Gets the parking lot information, including address, operator name, etc.

Returns:
Parking lot information; null if information is not available.

---

getSpecification

`public final ParkingLot.Specification getSpecification()`

Gets a parking lot specification, including gate locations for parking lots.

Returns:
Parking lot specification; null if information is not available.

---

getOpeningHours

`public final ParkingLot.OpeningHours getOpeningHours()`

Gets the opening hours for a parking lot.

Returns:
Opening hours for a parking lot; null if information is not available.

---

getPaymentMethods

`public final ParkingLot.PaymentMethods getPaymentMethods()`

Gets the supported payment methods for a parking lot.

Returns:
Supported payment methods; null if information is not available.

---

getPricingPayment

`public final java.util.List getPricingPayment()`

(continued from last page)

Gets an information on pricing of the parking lot.

Returns:

Pricing information of the parking lot; null or empty list if information is not available.

com.inrix.sdk.model
Class ParkingLot.Information

```
java.lang.Object
   |
   +-com.inrix.sdk.model.ParkingLot.Information
```

public static final class **ParkingLot.Information**
extends java.lang.Object

Operator and address for parking lot.

Fields

name

```
private java.lang.String name
```

address

```
private com.inrix.sdk.model.ParkingLot.Address address
```

operators

```
private java.util.List operators
```

photos

```
private java.util.List photos
```

Constructors

ParkingLot.Information

```
public ParkingLot.Information()
```

Methods

getName

```
public final java.lang.String getName()
```

Gets the operator name of the parking lot.

(continued from last page)

Returns:
Operator name of parking lot; null if information is not available.

getAddress

`public final ParkingLot.Address getAddress()`

Gets an address of the parking lot.

Returns:
Parking lot address; null if information is not available.

getOperators

`public final java.util.List getOperators()`

Gets a list of operators for a parking lot.

Returns:
Parking lot operators; null if information is not available.

getPhotos

`public final java.util.List getPhotos()`

Gets the list of photos.

Returns:
List of photos.

com.inrix.sdk.model
Class ParkingLot.Address

```
java.lang.Object
   |
   +-com.inrix.sdk.model.ParkingLot.Address
```

public static final class **ParkingLot.Address**
extends java.lang.Object

Parking lot address.

Fields

street

```
private java.lang.String street
```

city

```
private java.lang.String city
```

state

```
private java.lang.String state
```

zipCode

```
private java.lang.String zipCode
```

country

```
private java.lang.String country
```

phoneNumber

```
private java.lang.String phoneNumber
```

Constructors

(continued from last page)

ParkingLot.Address

```
public ParkingLot.Address()
```

Methods

getStreet

```
public final java.lang.String getStreet()
```

Gets the street name.

Returns:
Street name or null, if information is not available.

---

getCity

```
public final java.lang.String getCity()
```

Gets the city name.

Returns:
City name or null, if information is not available.

---

getState

```
public final java.lang.String getState()
```

Gets the state name.

Returns:
State name or null, if information is not available.

---

getZipCode

```
public final java.lang.String getZipCode()
```

Gets the zip code.

Returns:
Zip code or null, if information is not available.

---

getCountry

```
public final java.lang.String getCountry()
```

Gets the country name.

Returns:
Country name or null, if information is not available.

---

getPhoneNumber

```
public final java.lang.String getPhoneNumber()
```

(continued from last page)

Gets the phone number.

Returns:

Phone number or null, if information is not available.

com.inrix.sdk.model
Class ParkingLot.Photo

```
java.lang.Object
   |
   +-com.inrix.sdk.model.ParkingLot.Photo
```

public static final class **ParkingLot.Photo**
extends java.lang.Object

Parking lot photo.

Fields

mimeType

```
private java.lang.String mimeType
```

src

```
private java.lang.String src
```

Constructors

ParkingLot.Photo

```
public ParkingLot.Photo()
```

Methods

getMimeType

```
public final java.lang.String getMimeType()
```

Gets a resource MIME type of the resource source is pointing to.

Returns:
Resource MIME type.

getSource

```
public final java.lang.String getSource()
```

Gets the resource location.

Returns:
Resource location.

com.inrix.sdk.model
Class ParkingLot.ParkingType

```
java.lang.Object
   ┗-java.lang.Enum
      ┗-com.inrix.sdk.model.ParkingLot.ParkingType
```

All Implemented Interfaces:
java.io.Serializable, java.lang.Comparable

public static final class **ParkingLot.ParkingType**
extends java.lang.Enum

Fields

Unknown

```
public static final com.inrix.sdk.model.ParkingLot.ParkingType Unknown
```

Special

```
public static final com.inrix.sdk.model.ParkingLot.ParkingType Special
```

OpenSpace

```
public static final com.inrix.sdk.model.ParkingLot.ParkingType OpenSpace
```

MultiStorey

```
public static final com.inrix.sdk.model.ParkingLot.ParkingType MultiStorey
```

Underground

```
public static final com.inrix.sdk.model.ParkingLot.ParkingType Underground
```

Covered

```
public static final com.inrix.sdk.model.ParkingLot.ParkingType Covered
```

(continued from last page)

Nested

public static final com.inrix.sdk.model.ParkingLot.ParkingType **Nested**

Field

public static final com.inrix.sdk.model.ParkingLot.ParkingType **Field**

Roadside

public static final com.inrix.sdk.model.ParkingLot.ParkingType **Roadside**

DropoffWithValet

public static final com.inrix.sdk.model.ParkingLot.ParkingType **DropoffWithValet**

DropoffMechanical

public static final com.inrix.sdk.model.ParkingLot.ParkingType **DropoffMechanical**

Highway

public static final com.inrix.sdk.model.ParkingLot.ParkingType **Highway**

ParkAndRide

public static final com.inrix.sdk.model.ParkingLot.ParkingType **ParkAndRide**

Carpool

public static final com.inrix.sdk.model.ParkingLot.ParkingType **Carpool**

Campground

public static final com.inrix.sdk.model.ParkingLot.ParkingType **Campground**

ParkingZone

public static final com.inrix.sdk.model.ParkingLot.ParkingType **ParkingZone**

(continued from last page)

Downtown

```
public static final com.inrix.sdk.model.ParkingLot.ParkingType Downtown
```

Temporary

```
public static final com.inrix.sdk.model.ParkingLot.ParkingType Temporary
```

KissAndRide

```
public static final com.inrix.sdk.model.ParkingLot.ParkingType KissAndRide
```

value

```
private final int value
```

Constructors

ParkingLot.ParkingType

```
private ParkingLot.ParkingType(int value)
```

Methods

values

```
public static ParkingLot.ParkingType[] values()
```

valueOf

```
public static ParkingLot.ParkingType valueOf(java.lang.String name)
```

getValue

```
public int getValue()
```

fromValue

```
public final static ParkingLot.ParkingType fromValue(int value)
```

(continued from last page)

Gets the parking type by specified value.

Parameters:

`value` - Target value.

Returns:

Parking type for the specified value or null if not found.

com.inrix.sdk.model
Class ParkingLot.Specification

```
java.lang.Object
   |
   +-com.inrix.sdk.model.ParkingLot.Specification
```

public static final class **ParkingLot.Specification**
extends java.lang.Object

Parking lot specification, including gate locations for parking lots.

Fields

gateInfo

```
private java.util.List gateInfo
```

type

```
private int type
```

capacity

```
private int capacity
```

Constructors

ParkingLot.Specification

```
public ParkingLot.Specification()
```

Methods

getGateInformation

```
public final java.util.List getGateInformation()
```

Gets the parking lot gates information.

Returns:
Parking lot gates information.

(continued from last page)

getType

```
public final ParkingLot.ParkingType getType()
```

Gets the parking lot type.

Returns:
Parking lot type. No value if information is not available.

---

getCapacity

```
public final int getCapacity()
```

Gets the parking lot capacity.

Returns:
Capacity of the parking lot; returns `Inrix.NO_VALUE` if the information is not available.

com.inrix.sdk.model
Class ParkingLot.GateType

```
java.lang.Object
   |
   +-java.lang.Enum
      |
      +-com.inrix.sdk.model.ParkingLot.GateType
```

All Implemented Interfaces:
java.io.Serializable, java.lang.Comparable

---

public static final class **ParkingLot.GateType**
extends java.lang.Enum

Fields

Unknown

`public static final com.inrix.sdk.model.ParkingLot.GateType` **`Unknown`**

VehicleEntrance

`public static final com.inrix.sdk.model.ParkingLot.GateType` **`VehicleEntrance`**

VehicleExit

`public static final com.inrix.sdk.model.ParkingLot.GateType` **`VehicleExit`**

VehicleRentalReturn

`public static final com.inrix.sdk.model.ParkingLot.GateType` **`VehicleRentalReturn`**

VehicleExitAndEntrance

`public static final com.inrix.sdk.model.ParkingLot.GateType` **`VehicleExitAndEntrance`**

PedestrianEntrance

`public static final com.inrix.sdk.model.ParkingLot.GateType` **`PedestrianEntrance`**

(continued from last page)

PedestrianExit

```
public static final com.inrix.sdk.model.ParkingLot.GateType PedestrianExit
```

---

value

```
private final int value
```

Constructors

ParkingLot.GateType

```
private ParkingLot.GateType(int value)
```

Methods

values

```
public static ParkingLot.GateType[] values()
```

---

valueOf

```
public static ParkingLot.GateType valueOf(java.lang.String name)
```

---

getValue

```
public int getValue()
```

---

fromValue

```
public final static ParkingLot.GateType fromValue(int value)
```

Gets the gate type by specified value.

Parameters:
`value` - Target value.

Returns:
Gate type for the specified value or null if not found.

com.inrix.sdk.model
Class ParkingLot.GateInformation

```
java.lang.Object
   |
   +-com.inrix.sdk.model.ParkingLot.GateInformation
```

public static final class **ParkingLot.GateInformation**
extends java.lang.Object

An information about parking lot gate.

Fields

type

```
private int type
```

latitude

```
private double latitude
```

longitude

```
private double longitude
```

Constructors

ParkingLot.GateInformation

```
public ParkingLot.GateInformation()
```

Methods

getType

```
public final ParkingLot.GateType getType()
```

Gets the gate type.

Returns:
Type of the parking lot gate.

(continued from last page)

getLatitude

```
public final double getLatitude()
```

Gets the parking lot gate location latitude.

Returns:

Latitude of parking lot gate; `Double.NaN` if information is not available.

---

getLongitude

```
public final double getLongitude()
```

Gets the parking lot gate longitude.

Returns:

Longitude of parking lot gate; `Double.NaN` if information is not available.

com.inrix.sdk.model
Class ParkingLot.OpeningHoursType

```
java.lang.Object
   |-java.lang.Enum
      |-com.inrix.sdk.model.ParkingLot.OpeningHoursType
```

All Implemented Interfaces:
java.io.Serializable, java.lang.Comparable

---

public static final class **ParkingLot.OpeningHoursType**
extends java.lang.Enum

Fields

Unknown

```
public static final com.inrix.sdk.model.ParkingLot.OpeningHoursType Unknown
```

EntryHours

```
public static final com.inrix.sdk.model.ParkingLot.OpeningHoursType EntryHours
```

ExitHours

```
public static final com.inrix.sdk.model.ParkingLot.OpeningHoursType ExitHours
```

MaximumStayTime

```
public static final com.inrix.sdk.model.ParkingLot.OpeningHoursType MaximumStayTime
```

---

value

```
private final int value
```

Constructors

ParkingLot.OpeningHoursType

```
private ParkingLot.OpeningHoursType(int value)
```

Methods

values

```
public static ParkingLot.OpeningHoursType[] values()
```

valueOf

```
public static ParkingLot.OpeningHoursType valueOf(java.lang.String name)
```

getValue

```
public int getValue()
```

fromValue

```
public final static ParkingLot.OpeningHoursType fromValue(int value)
```

Gets the opening hours type by specified value.

Parameters:

`value` - Target value.

Returns:

Opening hours type for the specified value or null if not found.

com.inrix.sdk.model
Class ParkingLot.OpeningHours

```
java.lang.Object
   |
   +-com.inrix.sdk.model.ParkingLot.OpeningHours
```

public static final class **ParkingLot.OpeningHours**
extends java.lang.Object

Hours of operation for parking lot.

Fields

type

```
private int type
```

notes

```
private java.lang.String notes
```

Constructors

ParkingLot.OpeningHours

```
public ParkingLot.OpeningHours()
```

Methods

getType

```
public final ParkingLot.OpeningHoursType getType()
```

Gets the opening hours type.

Returns:
Opening hours type.

getNotes

```
public final java.lang.String getNotes()
```

Gets the notes for opening hours.

Returns:
Opening hours notes; null if information is not available.

com.inrix.sdk.model
Class ParkingLot.PaymentMethodType

```
java.lang.Object
   ┗-java.lang.Enum
      ┗-com.inrix.sdk.model.ParkingLot.PaymentMethodType
```

All Implemented Interfaces:
java.io.Serializable, java.lang.Comparable

---

public static final class **ParkingLot.PaymentMethodType**
extends java.lang.Enum

Fields

Unknown

```
public static final com.inrix.sdk.model.ParkingLot.PaymentMethodType Unknown
```

Cash

```
public static final com.inrix.sdk.model.ParkingLot.PaymentMethodType Cash
```

CreditCard

```
public static final com.inrix.sdk.model.ParkingLot.PaymentMethodType CreditCard
```

ElectronicSettlement

```
public static final com.inrix.sdk.model.ParkingLot.PaymentMethodType
ElectronicSettlement
```

Ticket

```
public static final com.inrix.sdk.model.ParkingLot.PaymentMethodType Ticket
```

Token

```
public static final com.inrix.sdk.model.ParkingLot.PaymentMethodType Token
```

DirectCashTransfer

```
public static final com.inrix.sdk.model.ParkingLot.PaymentMethodType
DirectCashTransfer
```

RFID

```
public static final com.inrix.sdk.model.ParkingLot.PaymentMethodType RFID
```

PrepayCard

```
public static final com.inrix.sdk.model.ParkingLot.PaymentMethodType PrepayCard
```

MobilePhone

```
public static final com.inrix.sdk.model.ParkingLot.PaymentMethodType MobilePhone
```

Smartcard

```
public static final com.inrix.sdk.model.ParkingLot.PaymentMethodType Smartcard
```

value

```
private final int value
```

Constructors

ParkingLot.PaymentMethodType

```
private ParkingLot.PaymentMethodType(int value)
```

Methods

values

```
public static ParkingLot.PaymentMethodType[] values()
```

valueOf

```
public static ParkingLot.PaymentMethodType valueOf(java.lang.String name)
```

(continued from last page)

getValue

```
public int getValue()
```

fromValue

```
public final static ParkingLot.PaymentMethodType fromValue(int value)
```

Gets the payment method type by specified value.

Parameters:

`value` - Target value.

Returns:

Payment method type for the specified value or null if not found.

com.inrix.sdk.model
Class ParkingLot.PaymentMethods

```
java.lang.Object
   |
   +-com.inrix.sdk.model.ParkingLot.PaymentMethods
```

public static final class **ParkingLot.PaymentMethods**
extends java.lang.Object

Supported payment methods.

Fields

methods

```
private int methods
```

Constructors

ParkingLot.PaymentMethods

```
public ParkingLot.PaymentMethods()
```

Methods

getMethods

```
public ParkingLot.PaymentMethodType[] getMethods()
```

Gets the supported payment methods.

Returns:
Supported payment methods.

com.inrix.sdk.model
Class ParkingLot.PricingPayment

```
java.lang.Object
   |
   +-com.inrix.sdk.model.ParkingLot.PricingPayment
```

public static final class **ParkingLot.PricingPayment**
extends java.lang.Object

Information on pricing of the parking lot.

Fields

time

```
private com.inrix.sdk.model.ParkingLot.ParkingTime time
```

amount

```
private int amount
```

currency

```
private java.lang.String currency
```

notes

```
private java.lang.String notes
```

Constructors

ParkingLot.PricingPayment

```
public ParkingLot.PricingPayment()
```

Methods

getTime

```
public final ParkingLot.ParkingTime getTime()
```

Gets the time for this pricing.

(continued from last page)

Returns:
Time for this pricing.

getAmount

`public final int getAmount()`

Gets the pricing amount.

Returns:
Pricing amount; `Inrix.NO_VALUE` if information is not available.

getCurrency

`public final java.lang.String getCurrency()`

Gets the currency type for this pricing.

Returns:
Currency type for a pricing.

getNotes

`public final java.lang.String getNotes()`

Gets the additional notes for this pricing.

Returns:
Notes for the pricing, for instance "closed for this departure time" if the parking lot is closed at this time, etc.

com.inrix.sdk.model
Class ParkingLot.ParkingTime

```
java.lang.Object
   |
   +-com.inrix.sdk.model.ParkingLot.ParkingTime
```

public static final class **ParkingLot.ParkingTime**
extends java.lang.Object

Represents a parking time in the pricing information.

Fields

duration

```
private com.inrix.sdk.model.ParkingLot.ParkingDuration duration
```

Constructors

ParkingLot.ParkingTime

```
public ParkingLot.ParkingTime()
```

Methods

getDuration

```
public final ParkingLot.ParkingDuration getDuration()
```

Gets a duration information for this parking time.

Returns:
Duration information.

com.inrix.sdk.model
Class ParkingLot.ParkingDuration

```
java.lang.Object
   |
   +-com.inrix.sdk.model.ParkingLot.ParkingDuration
```

public static final class **ParkingLot.ParkingDuration**
extends java.lang.Object

Represents a parking duration information.

Fields

hours

```
private int hours
```

Constructors

ParkingLot.ParkingDuration

```
public ParkingLot.ParkingDuration()
```

Methods

getHours

```
public final int getHours()
```

Gets the number of hours in this duration.

Returns:
Number of hours in the duration.

com.inrix.sdk.model
Class ParkingLot.DynamicContent

```
java.lang.Object
   |
   +-com.inrix.sdk.model.ParkingLot.DynamicContent
```

public static final class **ParkingLot.DynamicContent**
extends java.lang.Object

Represents a frequently changing information about a parking lot.

Fields

currentCapacity

```
private com.inrix.sdk.model.ParkingLot.CurrentCapacity currentCapacity
```

Constructors

ParkingLot.DynamicContent

```
public ParkingLot.DynamicContent()
```

Methods

getCurrentCapacity

```
public final ParkingLot.CurrentCapacity getCurrentCapacity()
```

Gets the current capacity of the parking lot.

Returns:
Current capacity of the parking lot.

com.inrix.sdk.model
Class ParkingLot.ParkingStatus

```
java.lang.Object
   ┗-java.lang.Enum
      ┗-com.inrix.sdk.model.ParkingLot.ParkingStatus
```

All Implemented Interfaces:
java.io.Serializable, java.lang.Comparable

---

public static final class **ParkingLot.ParkingStatus**
extends java.lang.Enum

Fields

Unknown

```
public static final com.inrix.sdk.model.ParkingLot.ParkingStatus Unknown
```

Full

```
public static final com.inrix.sdk.model.ParkingLot.ParkingStatus Full
```

Busy

```
public static final com.inrix.sdk.model.ParkingLot.ParkingStatus Busy
```

Vacant

```
public static final com.inrix.sdk.model.ParkingLot.ParkingStatus Vacant
```

Closed

```
public static final com.inrix.sdk.model.ParkingLot.ParkingStatus Closed
```

NoParkingAllowed

```
public static final com.inrix.sdk.model.ParkingLot.ParkingStatus NoParkingAllowed
```

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SpecialConditionsApply

```
public static final com.inrix.sdk.model.ParkingLot.ParkingStatus
SpecialConditionsApply
```

---

value

```
private final int value
```

Constructors

ParkingLot.ParkingStatus

```
private ParkingLot.ParkingStatus(int value)
```

Methods

values

```
public static ParkingLot.ParkingStatus[] values()
```

---

valueOf

```
public static ParkingLot.ParkingStatus valueOf(java.lang.String name)
```

---

getValue

```
public int getValue()
```

---

fromValue

```
public final static ParkingLot.ParkingStatus fromValue(int value)
```

Gets the parking status type by specified value.

Parameters:
`value` - Target value.

Returns:
Parking lot status type for the specified value or null if not found.

com.inrix.sdk.model
Class ParkingLot.Tendency

```
java.lang.Object
   ┗-java.lang.Enum
      ┗-com.inrix.sdk.model.ParkingLot.Tendency
```

All Implemented Interfaces:
java.io.Serializable, java.lang.Comparable

---

public static final class **ParkingLot.Tendency**
extends java.lang.Enum

Fields

Unknown

```
public static final com.inrix.sdk.model.ParkingLot.Tendency Unknown
```

FfillingQuickly

```
public static final com.inrix.sdk.model.ParkingLot.Tendency FfillingQuickly
```

Filling

```
public static final com.inrix.sdk.model.ParkingLot.Tendency Filling
```

FillingSlowly

```
public static final com.inrix.sdk.model.ParkingLot.Tendency FillingSlowly
```

Unchanging

```
public static final com.inrix.sdk.model.ParkingLot.Tendency Unchanging
```

EmptyingSlowly

```
public static final com.inrix.sdk.model.ParkingLot.Tendency EmptyingSlowly
```

(continued from last page)

Emptying

```
public static final com.inrix.sdk.model.ParkingLot.Tendency Emptying
```

EmptyingQuickly

```
public static final com.inrix.sdk.model.ParkingLot.Tendency EmptyingQuickly
```

value

```
private final int value
```

Constructors

ParkingLot.Tendency

```
private ParkingLot.Tendency(int value)
```

Methods

values

```
public static ParkingLot.Tendency[] values()
```

valueOf

```
public static ParkingLot.Tendency valueOf(java.lang.String name)
```

getValue

```
public int getValue()
```

fromValue

```
public final static ParkingLot.Tendency fromValue(int value)
```

Gets the tendency type by specified value.

Parameters:

`value` - Target value.

Returns:

Tendency type for the specified value or null if not found.

com.inrix.sdk.model
Class ParkingLot.Reservability

```
java.lang.Object
   ┗-java.lang.Enum
      ┗-com.inrix.sdk.model.ParkingLot.Reservability
```

All Implemented Interfaces:
java.io.Serializable, java.lang.Comparable

---

public static final class **ParkingLot.Reservability**
extends java.lang.Enum

Fields

Unknown

```
public static final com.inrix.sdk.model.ParkingLot.Reservability Unknown
```

PartlyReservable

```
public static final com.inrix.sdk.model.ParkingLot.Reservability PartlyReservable
```

Reservable

```
public static final com.inrix.sdk.model.ParkingLot.Reservability Reservable
```

NotReservable

```
public static final com.inrix.sdk.model.ParkingLot.Reservability NotReservable
```

ReservationRequired

```
public static final com.inrix.sdk.model.ParkingLot.Reservability ReservationRequired
```

---

value

```
private final int value
```

(continued from last page)

Constructors

ParkingLot.Reservability

```
private ParkingLot.Reservability(int value)
```

Methods

values

```
public static ParkingLot.Reservability[] values()
```

---

valueOf

```
public static ParkingLot.Reservability valueOf(java.lang.String name)
```

---

getValue

```
public int getValue()
```

---

fromValue

```
public final static ParkingLot.Reservability fromValue(int value)
```

Gets the reservability type by specified value.

Parameters:

`value` - Target value.

Returns:

Reservability type for the specified value or null if not found.

com.inrix.sdk.model
Class ParkingLot.CurrentCapacity

```
java.lang.Object
   |
   +-com.inrix.sdk.model.ParkingLot.CurrentCapacity
```

public static final class **ParkingLot.CurrentCapacity**
extends java.lang.Object

Represents a current capacity of the parking lot.

Fields

timestamp

```
private java.lang.String timestamp
```

availableSpaces

```
private int availableSpaces
```

occupancyPercentage

```
private int occupancyPercentage
```

fillState

```
private int fillState
```

fillStateRate

```
private int fillStateRate
```

tendency

```
private int tendency
```

reservability

```
private int reservability
```

(continued from last page)

dateFormat

```
private final java.text.SimpleDateFormat dateFormat
```

Constructors

ParkingLot.CurrentCapacity

```
public ParkingLot.CurrentCapacity()
```

Methods

getTimestamp

```
public final java.util.Date getTimestamp()
```

Gets the timestamp when the data was acquired.

Returns:
Data acquisition timestamp.

getAvailableSpaces

```
public final int getAvailableSpaces()
```

Gets the number of available spaces on the parking lot.

Returns:
Number of available spaces.

getOccupancyPercentage

```
public final int getOccupancyPercentage()
```

Gets the parking lot occupancy percentage.

Returns:
Occupancy percentage.

getFillState

```
public final ParkingLot.ParkingStatus getFillState()
```

Get fill state.

Returns:
Fill state.

getFillStateRate

```
public final int getFillStateRate()
```

(continued from last page)

Gets the fill state rate.

Returns:
Fill state rate.

getTendency

`public final ParkingLot.Tendency getTendency()`

Gets the value indicating whether the lot is currently filling up, emptying or staying same in terms of available spaces.

Returns:
Tendency for the parking lot.

getReservability

`public final ParkingLot.Reservability getReservability()`

Gets the value indicating reservability of the parking lot.

Returns:
Reservability of the parking lot.

com.inrix.sdk.model
Class ParkingLotCollection

```
java.lang.Object
   ┗-com.inrix.sdk.parser.json.JSONEntityBase
      ┗-com.inrix.sdk.model.ParkingLotCollection
```

public final class **ParkingLotCollection**
extends JSONEntityBase

Represents a collection of `ParkingLot` objects.

Fields

parkingLots

`private java.util.List parkingLots`

Constructors

ParkingLotCollection

`public ParkingLotCollection()`

Methods

getParkingLots

`public final java.util.List getParkingLots()`

Gets a list of parking lots in this collection.

Returns:
List of parking lots.

preFilter

`private java.util.List preFilter(java.util.List original)`

Pre-filter results, do not include `ParkingLot` objects without Id.

Parameters:
`original` - Original collection.

Returns:
Prefiltered collection.

com.inrix.sdk.model
Class Point

```
java.lang.Object
   ┗-com.inrix.sdk.model.Point
```

public class **Point**
extends java.lang.Object

This class represents a point in the route

Fields

latitude

```
private double latitude
```

longitude

```
private double longitude
```

Constructors

Point

```
public Point()
```

Methods

getLatitude

```
public double getLatitude()
```

setLatitude

```
public void setLatitude(double latitude)
```

getLatitudeE5

```
public int getLatitudeE5()
```

getLongitude

```
public double getLongitude()
```

setLongitude

```
public void setLongitude(double longitude)
```

getLongitudeE5

```
public int getLongitudeE5()
```

com.inrix.sdk.model
Class Result

```
java.lang.Object
   |
   +-com.inrix.sdk.model.Result
```

class **Result**
extends java.lang.Object

Fields

lastLocationsUpdateStr

```
private java.lang.String lastLocationsUpdateStr
```

lastCustomRoutesUpdateStr

```
private java.lang.String lastCustomRoutesUpdateStr
```

lastDepartureAlertsUpdateStr

```
private java.lang.String lastDepartureAlertsUpdateStr
```

Constructors

Result

```
Result()
```

Methods

getLastLocationsUpdateStr

```
public java.lang.String getLastLocationsUpdateStr()
```

getLastDepartureAlertsUpdateStr

```
public java.lang.String getLastDepartureAlertsUpdateStr()
```

(continued from last page)

getLastCustomRoutesUpdateStr

```
public java.lang.String getLastCustomRoutesUpdateStr()
```

com.inrix.sdk.model
Class Route

```
java.lang.Object
   |
   +-com.inrix.sdk.model.Route
```

public class **Route**
extends java.lang.Object

Fields

id

```
private long id
```

uncongestedTravelTimeMinutes

```
private int uncongestedTravelTimeMinutes
```

routeQuality

```
private int routeQuality
```

hasClosures

```
private boolean hasClosures
```

travelTimeMinutes

```
private int travelTimeMinutes
```

abnormalityMinutes

```
private int abnormalityMinutes
```

averageSpeed

```
private double averageSpeed
```

trafficConsidered

```
private boolean trafficConsidered
```

statusId

```
private int statusId
```

totalDistance

```
private double totalDistance
```

incidents

```
private java.util.List incidents
```

points

```
private java.util.List points
```

summary

```
private com.inrix.sdk.model.Route.Summary summary
```

Constructors

Route

```
public Route()
```

Methods

getId

```
public long getId()
```

getIncidents

```
public java.util.List getIncidents()
```

setIncidents

public void **setIncidents**(java.util.List incidents)

getPoints

public java.util.List **getPoints**()

setPoints

public void **setPoints**(java.util.List points)

getTotalDistance

public double **getTotalDistance**()

getAverageSpeed

public double **getAverageSpeed**()

getAbnormalityMinutes

public int **getAbnormalityMinutes**()

getTravelTimeMinutes

public int **getTravelTimeMinutes**()

getUncongestedTravelTimeMinutes

public int **getUncongestedTravelTimeMinutes**()

getStatusId

public int **getStatusId**()

getRouteQuality

public int **getRouteQuality**()

(continued from last page)

hasClosures

`public boolean hasClosures()`

isTrafficConsidered

`public boolean isTrafficConsidered()`

getSummary

`public Route.Summary getSummary()`

getPolyline

`public java.lang.String getPolyline()`

the points array of the route is returned as a encoded polyline as described by google poly-line algorithm. See Google Polyline Algorithm

Returns:

- the encoded polyline of this route as a `java.lang.String`

encodeDiff

`private java.lang.String encodeDiff(int coordinateDiff)`

Parameters:

`coordinateDiff` - - the difference between the last coordinate and current coordinate

Returns:

encoded string

com.inrix.sdk.model
Class Route.Summary

```
java.lang.Object
   |
   +-com.inrix.sdk.model.Route.Summary
```

public static class **Route.Summary**
extends java.lang.Object

Fields

roads

```
private java.util.List roads
```

text

```
private java.lang.String text
```

Constructors

Route.Summary

```
public Route.Summary()
```

Methods

getText

```
public java.lang.String getText()
```

getRoads

```
public java.util.List getRoads()
```

com.inrix.sdk.model
Class Route.Road

```
java.lang.Object
   |
   +-com.inrix.sdk.model.Route.Road
```

public static class **Route.Road**
extends java.lang.Object

Fields

roadClass

```
private java.lang.String roadClass
```

name

```
private java.lang.String name
```

Constructors

Route.Road

```
public Route.Road()
```

Methods

getRoadClass

```
public int getRoadClass()
```

getName

```
public java.lang.String getName()
```

com.inrix.sdk.model
Class RoutesCollection

```
java.lang.Object
   |
   +-com.inrix.sdk.parser.xml.XMLEntityBase
      |
      +-com.inrix.sdk.model.RoutesCollection
```

public class **RoutesCollection**
extends XMLEntityBase

Fields

incidentBodiesMap

```
private java.util.Map incidentBodiesMap
```

incidents

```
private java.util.List incidents
```

routes

```
private java.util.List routes
```

Constructors

RoutesCollection

```
public RoutesCollection()
```

Methods

getRoutes

```
public java.util.List getRoutes()
```

initIncidentsMap

```
private void initIncidentsMap()
```

matchIncidents

```
private void matchIncidents()
```

Since incidents within routes are just pointers to the incidents inside RouteCollection, we need to match these incidents. So this function basically replaces incidents pointers with actual incidents taken from RoutesCollection

com.inrix.sdk.model
Class SingleGasStationResult

```
java.lang.Object
   ┗-com.inrix.sdk.parser.json.JSONEntityBase
      ┗-com.inrix.sdk.model.SingleGasStationResult
```

public class **SingleGasStationResult**
extends JSONEntityBase

Class containing the gas station result

Fields

gasStation

`private com.inrix.sdk.model.GasStation` **`gasStation`**

Constructors

SingleGasStationResult

`public` **`SingleGasStationResult`**`()`

default constructor

Methods

getGasStation

`public` `GasStation` **`getGasStation`**`()`

Get the gas station

Returns:

com.inrix.sdk.model
Class SingleLocationCollection

```
java.lang.Object
   ┗-com.inrix.sdk.parser.json.JSONEntityBase
      ┗-com.inrix.sdk.model.SingleLocationCollection
```

public class **SingleLocationCollection**
extends JSONEntityBase

This class is similar to `LocationsCollection`, but here we have only one Location in response. We need this because parsing signature is different

Fields

location

```
private com.inrix.sdk.model.Location location
```

Constructors

SingleLocationCollection

```
public SingleLocationCollection()
```

Methods

getLocation

```
public Location getLocation()
```

com.inrix.sdk.model
Class TravelTimeResponse

```
java.lang.Object
   ┗-com.inrix.sdk.parser.xml.XMLEntityBase
      ┗-com.inrix.sdk.model.TravelTimeResponse
```

public class **TravelTimeResponse**
extends XMLEntityBase

The class that will be returned from a @TravelTimeRequest

Fields

tripInfo

```
private com.inrix.sdk.model.TripInformation tripInfo
```

The TripInformation from the response

Constructors

TravelTimeResponse

```
public TravelTimeResponse()
```

Default constructor

Methods

getTripInformation

```
public TripInformation getTripInformation()
```

Get the Trip Information that contains the requested travel times for the route

Returns:
- The TripInformation

com.inrix.sdk.model
Class TripInformation

```
java.lang.Object
   |
   +-com.inrix.sdk.model.TripInformation
```

public class **TripInformation**
extends java.lang.Object

Class representing the Trip information response from the server for a Travel Time Request

Fields

statusId

```
private int statusId
```

id

```
private long id
```

voiceTag

```
private java.lang.String voiceTag
```

description

```
private java.lang.String description
```

origin

```
private com.inrix.sdk.model.TripInformation.TravelPoint origin
```

destination

```
private com.inrix.sdk.model.TripInformation.TravelPoint destination
```

route

```
private com.inrix.sdk.model.TripInformation.RouteTravelTime route
```

(continued from last page)

Constructors

TripInformation

```
public TripInformation()
```

Methods

getStatusId

```
public int getStatusId()
```

Return the status id for this Travel Time Response

Returns:

---

getTripID

```
public long getTripID()
```

Return the Trip ID for this Travel Time Response

Returns:
- the Trip id

---

getVoiceTag

```
public java.lang.String getVoiceTag()
```

Return the voice tag for this Travel Time Response

Returns:
- the voice tag

---

getDescription

```
public java.lang.String getDescription()
```

Return the route description

Returns:
- the Inrix server description of the route of this trip

---

getOrigin

```
public GeoPoint getOrigin()
```

Return the origin for this trip

Returns:
- The starting point of the route of this trip as a GeoPoint

(continued from last page)

getDestination

`public GeoPoint getDestination()`

Return the destination for this trip

Returns:

- The destination of the route of this trip as a GeoPoint

getRoute

`public TripInformation.RouteTravelTime getRoute()`

Return the route object for this trip

Returns:

- the Route Object

com.inrix.sdk.model
Class TripInformation.TravelPoint

```
java.lang.Object
   |
   +-com.inrix.sdk.model.TripInformation.TravelPoint
```

public static class **TripInformation.TravelPoint**
extends java.lang.Object

Class representing a travel point (start and end of the route) in the travel time response.

Fields

latitude

```
private double latitude
```

longitude

```
private double longitude
```

Constructors

TripInformation.TravelPoint

```
public TripInformation.TravelPoint()
```

Default Constructor - initialize the latitude and longitude to 0

TripInformation.TravelPoint

```
public TripInformation.TravelPoint(double latitude,
                                   double longitude)
```

Parameterized constructor

Parameters:

`latitude` - - the latitude
`longitude` - - the longitude

Methods

getLatitude

```
public double getLatitude()
```

return the latitude of this travel point

Returns:

(continued from last page)

- the latitude

getLongitude

```
public double getLongitude()
```

return the longitude of this travel point

Returns:

- the longitude

com.inrix.sdk.model
Class TripInformation.RouteTravelTime

```
java.lang.Object
   |
   +-com.inrix.sdk.model.TripInformation.RouteTravelTime
```

public static class **TripInformation.RouteTravelTime**
extends java.lang.Object

Class representing the route in a travel time response. This has a route id, instance id and other information pertaining to the route such as uncongested travel time in minutes and the different travel times when departing at different times

Fields

id

```
private long id
```

routeInstanceId

```
private long routeInstanceId
```

uncongestedTravelTimeMinutes

```
private int uncongestedTravelTimeMinutes
```

travelTimes

```
private java.util.List travelTimes
```

Constructors

TripInformation.RouteTravelTime

```
public TripInformation.RouteTravelTime()
```

Default Constructor

Methods

getRouteID

```
public long getRouteID()
```

Return the route ID for this route

(continued from last page)

Returns:

- The route id

getRouteInstanceID

`public long getRouteInstanceID()`

Return the instance id for this route

Returns:

- The route instance id

getUncongestedTravelTime

`public int getUncongestedTravelTime()`

Return the un-congested travel time on this route

Returns:

- the un-congested travel time on this route in minutes

getTravelTimes

`public java.util.List getTravelTimes()`

Return the travel times requested for this route

Returns:

getTravelTimesInterval

`public int getTravelTimesInterval()`

Method to get the interval between travel times of this RouteTravelTime. If there are at least two travel times in the list the difference between the first two times are returned.

Returns:

-

com.inrix.sdk.model
Class TripInformation.TravelTime

```
java.lang.Object
   |
   +-com.inrix.sdk.model.TripInformation.TravelTime
```

public static class **TripInformation.TravelTime**
extends java.lang.Object

Travel Time class represents a prediction of a travel time in a particular route starting at a particular departure time or ending at a particular arrival time. This class specifies the travel time for that departure time or arrival time it also has other information such as road closures, restrictions, average speed and any abnormality travel time in minutes.

Fields

departureTimeStringUtc

```
private java.lang.String departureTimeStringUtc
```

arrivalTimeStringUtc

```
private java.lang.String arrivalTimeStringUtc
```

travelTimeMinutes

```
private int travelTimeMinutes
```

abnormalityMinutes

```
private int abnormalityMinutes
```

averageSpeed

```
private double averageSpeed
```

routeHasClosures

```
private boolean routeHasClosures
```

(continued from last page)

routeRestricted

```
private boolean routeRestricted
```

routeQuality

```
private com.inrix.sdk.model.TripInformation.TravelTime.RouteQuality routeQuality
```

Constructors

TripInformation.TravelTime

```
public TripInformation.TravelTime()
```

Default constructor

Methods

getDepartureTime

```
public java.util.Date getDepartureTime()
```

Return the departure time for this travel time

Returns:

- The departure time for this travel time as returned from the server for this route. This will return null if the departure time is null or invalid

getArrivalTime

```
public java.util.Date getArrivalTime()
```

Return the arrival time for this travel time

Returns:

- The arrival time for this travel time as returned from the server for this route. This will return null if the arrival time is null or invalid

getTravelTime

```
public int getTravelTime()
```

Return the travel time for this route when started at the departure time

Returns:

- the travel time

getAbnormailtyMinutes

```
public int getAbnormailtyMinutes()
```

Return the abnormality time for this route when started at the departure time

Returns:

- the abnormal travel time in minutes

getAverageSpeed

`public double getAverageSpeed()`

Return the average speed for this route when started at the specified departure time

Returns:
- The average speed

doesRouteHaveClosures

`public boolean doesRouteHaveClosures()`

Return a flag about route closures

Returns:
- true if the route would have closures at the specified departure time false - if there wont be any route closures

isRouteRestricted

`public boolean isRouteRestricted()`

Return a flag about route restrictions

Returns:
- true if the route would have any restrictions at the specified departure time false - if there wont be any route restrictions

getRouteQuality

`public TripInformation.TravelTime.RouteQuality getRouteQuality(int uncongestedMinutes)`

Return the quality of the route based on comparison to uncongested travel time

Returns:
- routeQuality

determineRouteQualityFromUncongestedMinutes

`private void determineRouteQualityFromUncongestedMinutes(int uncongestedMinutes)`

Determine route quality from uncongested minutes.

Parameters:
`uncongestedMinutes` - the uncongested minutes

com.inrix.sdk.model
Class TripInformation.TravelTime.RouteQuality

```
java.lang.Object
   |-java.lang.Enum
      |-com.inrix.sdk.model.TripInformation.TravelTime.RouteQuality
```

All Implemented Interfaces:
java.io.Serializable, java.lang.Comparable

---

public static final class **TripInformation.TravelTime.RouteQuality**
extends java.lang.Enum

Route Quality Enumeration

Fields

StopAndGo

```
public static final com.inrix.sdk.model.TripInformation.TravelTime.RouteQuality
StopAndGo
```

Heavy

```
public static final com.inrix.sdk.model.TripInformation.TravelTime.RouteQuality Heavy
```

Moderate

```
public static final com.inrix.sdk.model.TripInformation.TravelTime.RouteQuality
Moderate
```

FreeFlow

```
public static final com.inrix.sdk.model.TripInformation.TravelTime.RouteQuality
FreeFlow
```

Closed

```
public static final com.inrix.sdk.model.TripInformation.TravelTime.RouteQuality Closed
```

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Unknown

```
public static final com.inrix.sdk.model.TripInformation.TravelTime.RouteQuality
Unknown
```

---

routeQualityId

```
public int routeQualityId
```

Constructors

TripInformation.TravelTime.RouteQuality

```
private TripInformation.TravelTime.RouteQuality(int pRouteQualityId)
```

Methods

values

```
public static TripInformation.TravelTime.RouteQuality[] values()
```

---

valueOf

```
public static TripInformation.TravelTime.RouteQuality valueOf(java.lang.String name)
```

com.inrix.sdk.model
Class UserCheckResult

```
java.lang.Object
   |-com.inrix.sdk.parser.xml.XMLEntityBase
      |-com.inrix.sdk.model.UserCheckResult
```

public class **UserCheckResult**
extends XMLEntityBase

The response from Mobile.User.Check

Fields

isEmailInUse

```
private boolean isEmailInUse
```

Constructors

UserCheckResult

```
public UserCheckResult()
```

Methods

isUserExists

```
public boolean isUserExists()
```