



Maps API for JavaScript

Release Notes

Version 3.1.0.0

Important Information

Notices

Topics:

This section contains document notices.

- [Legal Notices](#)
- [Document Information](#)

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Document Information

Product

Name: Maps API for JavaScript

Version: Version 3.1.0.0

Document

Name: Maps API for JavaScript Release Notes

ID: ce9e5ff9-9b64-4cc3-adda-757ba01443de

Status: FINAL

Date: 2019-Jul-10, 13:14 (GMT)

Contents

Chapter 1: Overview	6
Highlights.....	7
Chapter 2: Changes	8
Functional and Behavioral Changes.....	9
API Changes.....	9
Resolved Issues.....	15
Known Issues.....	15
Limitations and Workarounds.....	15

Chapter 1

Overview

Topics:

- [Highlights](#)

This document provides a summary of important changes for this version. Apart from newly resolved issues and added or improved functionality, this document also includes information about known issues remaining in this release as well as any existing limitations and workarounds.

Highlights

The following highlights give a short summary of the most important changes, added functionality and improvements:

- We introduced the new WebGL based rendering engine with the following features:
 - customisation of the map's look and feel
 - runtime change of the map style
 - rich interactions with the map - retrieve feature's meta information
 - hide/show base map data layers at the runtime
 - map tilting and rotation
 - extruded buildings
 - fractional zoom levels
 - interactive traffic flow information
- The appearance of the default UI elements was improved and updated.
- We added legacy modules with the HTML5 canvas rendering engine to enable compatibility with the older devices and browsers.
- The way to authenticate the API was changed from the "app_id" and "app_code" to the more straightforward API key.
- The street level and the places modules were deprecated and removed.


Chapter 2

Changes

Topics:

- [Functional and Behavioral ...](#)
- [API Changes](#)
- [Resolved Issues](#)
- [Known Issues](#)
- [Limitations and Workaround...](#)

This section documents major changes to the release that may require the updating of affected applications.

 **Note:** For changes made in previous releases, see the related documents at <http://developer.here.com>.

Functional and Behavioral Changes

The following list contains descriptions of the added or changed functionality and changes the product behaviour.

- The default rendering engine is the WebGL engine that is suitable for the vector rendering.
- The "Public Venues" REST API was deprecated, corresponding classes were removed from the library.
- We enabled CORS headers by default for all data sources.
- The method `H.Map#getObjectAt` was changed to return results asynchronously.
- Zooming behaviour was changed: the level is not rounded to the nearest integral zoom level by default.

API Changes

Added

- `mapsjs.util.ICache#deRegisterOnDrop`
- `mapsjs.util.Cache#deRegisterOnDrop`
- `mapsjs.map.IObject`
- `mapsjs.map.Object#getVolatility`
- `mapsjs.map.Object#setVolatility`
- `mapsjs.map.Object.Options#volatility`
- `mapsjs.map.SpatialStyle#lineHeadCap`
- `mapsjs.map.SpatialStyle#lineTailCap`
- `mapsjs.map.SpatialStyle.Options#lineTailCap`
- `mapsjs.map.SpatialStyle.Options#lineHeadCap`
- `mapsjs.map.Spatial.Options#volatility`
- `mapsjs.map.Spatial#getVolatility`
- `mapsjs.map.Spatial#setVolatility`
- `mapsjs.map.GeoShape#getBoundingBox`
- `mapsjs.map.GeoShape#getBoundingBox`
- `mapsjs.map.GeoShape#getVolatility`
- `mapsjs.map.GeoShape#setVolatility`
- `mapsjs.map.Polyline.Options#volatility`
- `mapsjs.map.Polyline#getVolatility`
- `mapsjs.map.Polyline#setVolatility`
- `mapsjs.map.Polygon#getVolatility`
- `mapsjs.map.Polygon#setVolatility`
- `mapsjs.map.Circle.Options#volatility`
- `mapsjs.map.Circle#getVolatility`
- `mapsjs.map.Circle#setVolatility`
- `mapsjs.map.AbstractMarker.Options#volatility`
- `mapsjs.map.AbstractMarker#getVolatility`
- `mapsjs.map.AbstractMarker#setVolatility`

- `mapsjs.map.DomMarker#getVolatility`
- `mapsjs.map.DomMarker#setVolatility`
- `mapsjs.map.Group.Options#volatility`
- `mapsjs.map.Group#getVolatility`
- `mapsjs.map.Group#setVolatility`
- `mapsjs.map.Icon.State`
- `mapsjs.map.Style`
- `mapsjs.map.ViewModel#setLookAtData`
- `mapsjs.map.ViewModel#getLookAtData`
- `mapsjs.map.ViewModel.ILookAtData`
- `mapsjs.map.layer.Layer#getProvider`
- `mapsjs.map.layer.Layer.Options#provider`
- `mapsjs.map.layer.ITileLayer.Options#min`
- `mapsjs.map.layer.ITileLayer.Options#max`
- `mapsjs.map.layer.ITileLayer.Options#dark`
- `mapsjs.map.layer.CanvasLayer#getProvider`
- `mapsjs.map.layer.DomLayer#getProvider`
- `mapsjs.map.provider.Provider#providesRasters`
- `mapsjs.map.provider.Provider#setStyleInternal`
- `mapsjs.map.provider.Provider#getStyleInternal`
- `mapsjs.map.provider.ObjectProvider#providesRasters`
- `mapsjs.map.provider.ObjectProvider#setStyleInternal`
- `mapsjs.map.provider.ObjectProvider#getStyleInternal`
- `mapsjs.map.provider.LocalObjectProvider#providesRasters`
- `mapsjs.map.provider.LocalObjectProvider#setStyleInternal`
- `mapsjs.map.provider.LocalObjectProvider#getStyleInternal`
- `mapsjs.map.Marker.Options#volatility`
- `mapsjs.map.Marker#getVolatility`
- `mapsjs.map.Marker#setVolatility`
- `mapsjs.map.Rect#getVolatility`
- `mapsjs.map.Rect#setVolatility`
- `mapsjs.map.Overlay.Options#volatility`
- `mapsjs.map.Overlay#getVolatility`
- `mapsjs.map.Overlay#setVolatility`
- `mapsjs.Map.Options#boundingBox`
- `mapsjs.service.Platform#getOMVService`
- `mapsjs.service.Platform#getTrafficService`
- `mapsjs.service.omv.Provider`
- `mapsjs.service.omv.Service`
- `mapsjs.service.DefaultLayers#vector`
- `mapsjs.service.DefaultLayers#raster`
- `mapsjs.service.traffic.incidents.Provider`
- `mapsjs.service.traffic.Service`
- `mapsjs.service.traffic.flow.Provider`
- `mapsjs.mapevents.Behavior.FRACTIONALZOOM`
- `mapsjs.ui.UI#dispose`

- `mapsjs.ui.ZoomControl.Options#fractionalZoom`
- `mapsjs.ui.MapSettingsControl.Options#baseLayers`
- `mapsjs.ui.MapSettingsControl.Options#layers`
- `mapsjs.ui.MapSettingsControl.Entry`

Changed

- `mapsjs.clustering.ICluster#getBoundingBox` changed to `mapsjs.clustering.ICluster#getBounds`
- `mapsjs.geo.AbstractGeometry#getBounds` changed to `mapsjs.geo.AbstractGeometry#getBoundingBox`
- `mapsjs.geo.Polygon#getBounds` changed to `mapsjs.geo.Polygon#getBoundingBox`
- `mapsjs.geo.Point#getBounds` changed to `mapsjs.geo.Point#getBoundingBox`
- `mapsjs.geo.Rect#getBounds` changed to `mapsjs.geo.Rect#getBoundingBox`
- `mapsjs.geo.LineString#getBounds` changed to `mapsjs.geo.LineString#getBoundingBox`
- `mapsjs.geo.MultiGeometry#getBounds` changed to `mapsjs.geo.MultiGeometry#getBoundingBox`
- `mapsjs.geo.MultiPolygon#getBounds` changed to `mapsjs.geo.MultiPolygon#getBoundingBox`
- `mapsjs.geo.MultiLineString#getBounds` changed to `mapsjs.geo.MultiLineString#getBoundingBox`
- `mapsjs.geo.MultiPoint#getBounds` changed to `mapsjs.geo.MultiPoint#getBoundingBox`
- `mapsjs.map.GeoShape#getBounds` changed to `mapsjs.map.GeoShape#getBoundingBox`
- `mapsjs.map.Polygon#getBounds` changed to `mapsjs.map.Polygon#getBoundingBox`
- `mapsjs.map.Polyline#getBounds` changed to `mapsjs.map.Polyline#getBoundingBox`
- `mapsjs.map.Rect#setBounds` changed to `mapsjs.map.Rect#setBoundingBox`
- `mapsjs.map.Rect#getBounds` changed to `mapsjs.map.Rect#getBoundingBox`
- `mapsjs.map.AbstractMarker#getPosition` changed to `mapsjs.map.AbstractMarker#getGeometry`
- `mapsjs.map.AbstractMarker#setPosition` changed to `mapsjs.map.AbstractMarker#setGeometry`
- `mapsjs.map.DomMarker#getPosition` changed to `mapsjs.map.AbstractMarker#getGeometry`
- `mapsjs.map.DomMarker#setPosition` changed to `mapsjs.map.AbstractMarker#setGeometry`
- `mapsjs.map.Marker#getPosition` changed to `mapsjs.map.AbstractMarker#getGeometry`
- `mapsjs.map.Marker#setPosition` changed to `mapsjs.map.AbstractMarker#setGeometry`
- `mapsjs.map.ChangeEvent#PITCH` changed to `mapsjs.map.ChangeEvent#TILT`
- `mapsjs.map.ChangeEvent#ROLL` changed to `mapsjs.map.ChangeEvent#INCLINE`
- `mapsjs.map.ChangeEvent#YAW` changed to `mapsjs.map.ChangeEvent#HEADING`
- `mapsjs.map.Group#getBounds` changed to `mapsjs.map.Group#getBoundingBox`
- `mapsjs.map.Overlay#getBounds` changed to `mapsjs.map.Overlay#getBoundingBox`
- `mapsjs.map.Overlay#setBounds` changed to `mapsjs.map.Overlay#setBoundingBox`
- `mapsjs.map.Circle#getBounds` changed to `mapsjs.map.Circle#getBoundingBox`

Removed

- `mapsjs.geo.Strip`
- `mapsjs.places.Explore`
- `mapsjs.places.Search`
- `mapsjs.places.Here`

- `mapsjs.places.Around`
- `mapsjs.places.Categories`
- `mapsjs.places.Suggest`
- `mapsjs.places.Lookup`
- `mapsjs.places.model.GetLink`
- `mapsjs.places.model.PostLink`
- `mapsjs.places.model.ResultSet`
- `mapsjs.map.Object#event:visibilitychange`
- `mapsjs.map.Object#event:zindexchange`
- `mapsjs.map.Spatial#event:stylechange`
- `mapsjs.map.Spatial#event:visibilitychange`
- `mapsjs.map.Spatial#event:zindexchange`
- `mapsjs.map.GeoShape#event:stripchange`
- `mapsjs.map.GeoShape#getStrip`
- `mapsjs.map.GeoShape#setStrip`
- `mapsjs.map.GeoShape#event:stylechange`
- `mapsjs.map.GeoShape#event:visibilitychange`
- `mapsjs.map.GeoShape#event:zindexchange`
- `mapsjs.map.Polygon#setNorthPoleCovering`
- `mapsjs.map.Polygon#getNorthPoleCovering`
- `mapsjs.map.Polygon#clip`
- `mapsjs.map.Polygon#event:stripchange`
- `mapsjs.map.Polygon#getStrip`
- `mapsjs.map.Polygon#setStrip`
- `mapsjs.map.Polygon#event:stylechange`
- `mapsjs.map.Polygon#event:visibilitychange`
- `mapsjs.map.Polygon#event:zindexchange`
- `mapsjs.map.Circle#setNorthPoleCovering`
- `mapsjs.map.Circle#getNorthPoleCovering`
- `mapsjs.map.Circle#clip`
- `mapsjs.map.Circle#event:stripchange`
- `mapsjs.map.Circle#getStrip`
- `mapsjs.map.Circle#setStrip`
- `mapsjs.map.Circle#event:stylechange`
- `mapsjs.map.Circle#event:visibilitychange`
- `mapsjs.map.Circle#event:zindexchange`
- `mapsjs.map.Polyline#event:stripchange`
- `mapsjs.map.Polyline#getStrip`
- `mapsjs.map.Polyline#setStrip`
- `mapsjs.map.Polyline#event:stylechange`
- `mapsjs.map.Polyline#event:visibilitychange`
- `mapsjs.map.Polyline#event:zindexchange`
- `mapsjs.map.Rect#setNorthPoleCovering`
- `mapsjs.map.Rect#getNorthPoleCovering`
- `mapsjs.map.Rect#clip`
- `mapsjs.map.Rect#event:stripchange`

- `mapsjs.map.Rect#getStrip`
- `mapsjs.map.Rect#setStrip`
- `mapsjs.map.Rect#event:stylechange`
- `mapsjs.map.Rect#event:visibilitychange`
- `mapsjs.map.Rect#event:zindexchange`
- `mapsjs.map.layer.Layer#event:minchange`
- `mapsjs.map.layer.Layer#event:maxchange`
- `mapsjs.map.layer.BaseTileLayer#event:minchange`
- `mapsjs.map.layer.BaseTileLayer#event:maxchange`
- `mapsjs.map.layer.MarkerTileLayer#event:minchange`
- `mapsjs.map.layer.MarkerTileLayer#event:maxchange`
- `mapsjs.map.layer.CanvasLayer#event:minchange`
- `mapsjs.map.layer.CanvasLayer#event:maxchange`
- `mapsjs.map.layer.DomLayer#event:minchange`
- `mapsjs.map.layer.DomLayer#event:maxchange`
- `mapsjs.map.layer.ITileLayer.Options#opacity`
- `mapsjs.map.layer.TileLayer#event:minchange`
- `mapsjs.map.layer.TileLayer#event:maxchange`
- `mapsjs.map.layer.ObjectLayer#event:minchange`
- `mapsjs.map.layer.ObjectLayer#event:maxchange`
- `mapsjs.map.AbstractMarker#event:visibilitychange`
- `mapsjs.map.AbstractMarker#event:zindexchange`
- `mapsjs.map.DomMarker#event:visibilitychange`
- `mapsjs.map.DomMarker#event:zindexchange`
- `mapsjs.map.Icon#State`
- `mapsjs.map.Marker#event:visibilitychange`
- `mapsjs.map.Marker#event:zindexchange`
- `mapsjs.map.ChangeEvent#FOV`
- `mapsjs.map.Imprint#getStyle`
- `mapsjs.map.ViewPort.Options#fixedCenter`
- `mapsjs.map.ViewModel#getCameraData`
- `mapsjs.map.ViewModel#setCameraData`
- `mapsjs.map.ViewModel#setZoom`
- `mapsjs.map.ViewModel#getZoom`
- `mapsjs.map.ViewModel#getRequestedCameraData`
- `mapsjs.map.ViewModel.CameraData`
- `mapsjs.map.Group#event:visibilitychange`
- `mapsjs.map.Group#event:zindexchange`
- `mapsjs.map.Overlay#event:visibilitychange`
- `mapsjs.map.Overlay#event:zindexchange`
- `mapsjs.Map#setViewBounds`
- `mapsjs.Map#getViewBounds`
- `mapsjs.Map#getCameraDataForBounds`
- `mapsjs.Map#screenToCameraData`
- `mapsjs.Map.Options#bounds`
- `mapsjs.Map.Options#fixedCenter`

- `mapsjs.Map.Options#noWrap`
- `mapsjs.map.render.panorama.RenderEngine`
- `mapsjs.service.IConfigurable`
- `mapsjs.service.AbstractRestService`
- `mapsjs.service.Platform#configure`
- `mapsjs.service.Platform#setUseCIT`
- `mapsjs.service.Platform.Options#useCIT`
- `mapsjs.service.Platform#getTrafficIncidentsService`
- `mapsjs.service.Platform#getVenueService`
- `mapsjs.service.Platform#getMetaInfoService`
- `mapsjs.service.Platform#getEnterpriseRoutingService`
- `mapsjs.service.TrafficIncidentsService`
- `mapsjs.service.MapTileService#configure`
- `mapsjs.service.venues.Building`
- `mapsjs.service.venues.Venue`
- `mapsjs.service.venues.Space`
- `mapsjs.service.venues.Floor`
- `mapsjs.service.venues.TileProvider`
- `mapsjs.service.venues.Service`
- `mapsjs.service.TrafficIncidentsProvider`
- `mapsjs.service.MapType#panorama`
- `mapsjs.service.DefaultLayers#normal`
- `mapsjs.service.DefaultLayers#satellite`
- `mapsjs.service.DefaultLayers#terrain`
- `mapsjs.service.DefaultLayers#incidents`
- `mapsjs.service.DefaultLayers#venues`
- `mapsjs.service.RoutingService#configure`
- `mapsjs.service.GeocodingService#configure`
- `mapsjs.service.PlacesService#configure`
- `mapsjs.service.EnterpriseRoutingService`
- `mapsjs.service.extension.platformData.Table`
- `mapsjs.service.extension.platformData.SearchRequest`
- `mapsjs.service.extension.platformData.Service#configure`
- `mapsjs.service.extension.geofencing.Service#configure`
- `mapsjs.service.extension.customLocation.Service#configure`
- `mapsjs.service.extension.customRoute.Service#configure`
- `mapsjs.service.metaInfo.Service#configure`
- `mapsjs.ui.Control#el`
- `mapsjs.ui.Pano`
- `mapsjs.ui.UI.Options#panorama`
- `mapsjs.ui.ZoomControl#el`
- `mapsjs.ui.DistanceMeasurement#el`
- `mapsjs.ui.MapSettingsControl#setIncidentsLayer`
- `mapsjs.ui.MapSettingsControl.Options#entries`
- `mapsjs.ui.MapSettingsControl.Options#incidents`
- `mapsjs.ui.MapSettingsControl.MapTypeEntry`

- `mapsjs.ui.MapSettingsControl#el`
- `mapsjs.ui.ZoomRectangle#el`
- `mapsjs.ui.Overview#el`
- `mapsjs.ui.ScaleBar#el`
- `mapsjs.service.Platform#setUseHTTPS`
- `mapsjs.service.Platform.Options#app_id`
- `mapsjs.service.Platform.Options#app_code`
- `mapsjs.service.Platform.Options#useHTTPS`

Deprecated

- None

Resolved Issues

There are no resolved issues in this release.

Known Issues

The following list contains issues known to be present in the current release of the Maps API for JavaScript.

- The data for the vector map rendering misses following content in comparison to the Map Tile Service REST API:
 - transit stops
 - seabed below 3000m
 - smaller towns/city labels at the intermediate zoom levels for some regions (ex. Madagascar, Japan)
 - transliteration/translation to english for certain regions (ex. Thailand)
 - differentiation between borough, locality, macrohood, microhood, neighbourhood and region
 - interchanges in some areas at the intermediate zoom levels
 - marine terminals
 - areas for the different bodies of water
 - forest names
 - shortened names for some regions/states
 - amusement parks
 - urban areas for some localities (ex. New Delhi, Cairo, Kathmandu)
- Label crowding and collisions when the map is tilted/rotated.
- Labels might flicker when the map style is updated at the runtime.
- In certain cases label of the ferry line could overlap with the bridge.
- Potential map slowdown in the areas with the dense street network.

Limitations and Workarounds

There are no limitations and workarounds in this release.