Open Location Platform

Release Notes

Version 1.5.4

Important Information
Notices

Topics:

- *Legal Notices*
- *Document Information*

This section contains document notices.

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Document Information

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Contents

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 Open Location Platform powers collaborative location intelligence for the next generation of products and services. The platform accelerates development of applications through Big Data processing and integrated access to rich location content and services.

Open Location Platform provides the following capabilities:

- **Data:** Store and access location related data, including built-in HERE map data, as well as your own ingested streams and batches of data.
- **Pipelines:** Develop and deploy processing logic that runs at scale, using Apache Flink for stream processing, Apache Spark for batch processing, or HERE data processing and location enrichment libraries for spatio-temporal processing.
- **Notebooks:** Perform ad-hoc analysis using Apache Zeppelin and HERE location data.
- **Schemas:** Declare the structure of your data, so that it can be used by others.

Developers can access and manage these capabilities in one of the following ways:

- **Portal:** Interactively manage Data and Pipelines, and access developer resources, such as the SDK and documentation, via a browser.
- **SDK:** Download libraries, tools, and examples to assist with local development of pipelines, and to transmit data to and from the Platform via external systems.
- **APIs:** Programmatically deploy and manage Platform resources such as Data and Pipelines through REST interfaces.

Developers can monitor and debug deployed pipelines, data ingestion, and other operational processes through:

- **Metrics:** See operational metrics in standard dashboard views.
- **Logs:** Search and analyze pipeline and process logs using a hosted Splunk instance.

Account Administrators can control Platform access for their account by managing Users, Groups, and their corresponding Permissions.

Chapter 2
Changes

Topics:

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

New Features

This Open Location Platform (OLP) release contains the following new functionality or improvements:

- Portal UI: Sort Pipelines by Date or Name.
- Portal UI: Sort Pipeline Versions by Version Number or Modified Date.
- Portal UI: Clone a Pipeline Version as a new Pipeline Version or a new Pipeline.
- Notebooks: All notebooks are now encrypted (including existing and new).
- Data / SDK: Layers using the following schema can now be visualized using the Visualization Library:
    - RIB Cartography
    - RIB Building Footprints
    - RT Traffic Flow

    (For other SDK updates, see the HERE Open Location Platform SDK 1.5.4 release notes.)

Functional and Behavioral Changes

The following list contains functional and behavioral changes in this current release:

- Pipeline Service API v1 will be deprecated in OLP 1.5.5 (scheduled for June 13, 2018). A new Pipeline Service API v2 has been launched in 1.5.1/1.5.2 to help users create and deploy pipelines easily and reliably. Users should use the API v2 and the corresponding CLI and Portal UI. The Pipelines in the Running state in API v1 will continue to run until deprecation is complete. New Pipelines can't be created and deployed in API v1. To migrate the pipelines to the Pipeline Service API v2, follow the Migration procedure documented in the Pipeline User Guide's Appendix. To learn about the API v2, see the Pipeline API Documentation.
- Portal UI: Remember Pipelines' search term, filters, and sorting.
- Pipelines: Prevent logging of Credentials and Authentication tokens.

API Changes

No APIs were added, changed, or removed in this release.

Resolved Issues

The following section summarizes major issues resolved in this release:

- Schemas with the "_" character in their GroupIDs cannot be published using the OLP Artifact Wagon plugin.
- BYOS schemas can be used only by the publisher and even if a schema is shared with others, others cannot download the schema to use it themselves.
- Clicking on "Spark UI" in the Zeppelin UI opens a new tab with an unreachable IP.
- Portal UI: Fixed Cluster Configuration parameters' format in the Pipeline Version Details.
- Portal UI: Disable other operations if an operation is pending (in progress).

Known Issues

The following list contains issues known to be present in the current release:

- Notebooks currently use a snapshot release of Apache Zeppelin version 0.8 instead of a fully-supported release (version 0.7.3). This is because map visualization requires version 0.8 or newer. There may be stability concerns with the initial Notebook release.
- Notebooks only support Python 3.
- Notebooks do not support Flink.
- Notebooks do not contain support for Streaming Layers.
- Notebook sessions are valid for one hour. After one hour, you need to return to the portal UI to refresh your session.
- Some traffic incidents aren't currently published in Real-Time Traffic's Incident Layer due to a missing translation between map referencing systems.
- HERE Reality Index Base catalog will stop updating after this release. Users should start using HERE Map Content catalog as soon as it becomes available to continue receiving incremental update.
- Changes from HERE Reality Index Base to HERE Map Content are:
  - Renaming of layers
  - Split of HERE Reality Index Base Road layer into
    - HERE Map Content: Road Attributes
    - HERE Map Content: Navigation Attributes
    - HERE Map Content: Advanced Navigation Attributes
  - Removal of following conditions from HERE Reality Index Base: Road
    - Truck-restrictions (future release candidate)
    - Environmental zones (future release candidate)
    - Junction Views (future release candidate)
    - Segment to Core Map Link references (new catalog available for early adopters)
  - Move of the following HERE Reality Index Base: Lane attributes to the HERE Map Content: Navigation Attributes layer
    - Lane Category
    - Through Lane Count
    - Physical Lane count
- OLP does not have full end-to-end data encryption in place, in-flight or at rest.
- Pipelines can access the Internet outside of the platform. We don't officially support this behavior, and may prevent this in a future release. Please take caution in connecting pipelines to external resources.
- The character-limit for the Input Catalog and Output Catalog fields is 62. The Portal UI currently allows a user to specify more than 62 characters.
- When updating permissions, it can take up to an hour for changes to take effect.
- Portal UI and Notebooks are not compatible with Internet Explorer.
- Data visualization in the Portal is only available for versioned and volatile layers and only for data formatted according to the SDII, GeoJSON, or HERE Map Content Topology layer formats.
- Compute, Storage, and Transfer metrics are not fully available within Monitoring and Alerts.
- Create a Schema section in Data User Guide refers to deploy your created schemas to the Open Location Platform artifact repository. This feature was erroneously documented for 1.5.1.
- When creating input catalogs, if you create two catalogs with the same key and then delete one of the catalogs before fixing the validation, you won't be able to add any new catalogs.

- Sometimes, a pipeline can be saved without valid catalogs.
- The OLP SLA does not cover writing data to a versioned or steam layer.
- Portal UI: Pipelines list page might be slow to load all the elements.

Limitations and Workarounds

This section lists known limitations and, if available, related workarounds in the current release:

Table 1: Limitations and Workarounds

Limitation	Workaround
Some older catalogs cannot be shared temporarily because the catalog owners don't have permissions assigned to them yet. This limitation only applies to older catalogs.	Report each occurrence as a bug.
A finite number of access tokens (~250) are availbe for each app or user. Depending on the number of resources included, this number may be smaller.	Create a new app or user if you reach the limitation.
Limited data encryption. Encryption is limited to: • Versioned data at rest for new versioned layers • Data retained in the stream layer per the user's data retention configuration (Time to Live) • Notebooks • In-flight data is not encrypted end-to-end, throughout the service	Customers sending sensitive data or personal information to OLP at this time should opt out of doing so. Existing versioned catalog data will be encrypted in an upcoming OLP release with no additional work necessary by customers.
Creating Catalogs and Layers using App credentials via the Data API, CLI or Client Library does not automatically enable a user who created those credentials to discover, read, write, manage and share those resources.	Using the credentials with which the catalog was created, the catalog can be shared with users, apps or groups.
Pipelines are not private to a User by default; they must be shared with exactly one Group when created.	Share the Pipeline with a Group containing only one User.
Pipelines can only be shared with specific Users if these Users belong to the same Group.	Share the Pipeline with a Group containing the specific set of Users.
All Users and Apps in a Group are granted permissions to perform all actions on a Pipeline associated with that Group. There is no support for Users or Apps with limited permissions, for example, a reduced role that can only view Pipeline status, but not start and stop a Pipeline.	Limit the Users in a Pipeline's Group to only those Users who should have full control over the Pipeline.
Pipelines are not automatically granted permissions to read Data Catalogs that the User owns.	Data owners must share Data Catalogs with the Group selected when the Pipeline was created.
Pipeline Templates can't be deleted from the Portal UI.	Use the CLI or API to delete Pipeline Templates.
A Batch Pipeline Version can't be forced to run from the Portal UI. It will run on its own when the input catalog version is updated.	Use the API to force a Batch Pipeline Version to run or wait for the input catalogs' version to update. For more details, see Troubleshooting section in the Pipelines Developer's Guide.

Limitation	Workaround
In the Portal UI, a Pipeline Version is not automatically updated after the Pipeline Template has been created. Therefore, it takes some time for the Activate button for that Pipeline Version to get enabled.	Wait for a few minutes and refresh the Pipeline Versions page. The Activate button will get enabled.
The custom run-time configuration for a Pipeline Version has a limit of 64 characters for the property name, and 255 characters for the value.	There is no workaround. Users must stay within this limitation.
From the Pipeline list in the Portal UI, clicking on the Output catalog for a pipeline doesn't take the user to the catalog information and instead shows the Pipeline's details page with its version list.	Open the Output catalog link in a new tab to view the details.
A running or scheduled pipeline can't be deleted. Also, if the user tries to delete a running pipeline/version from the Portal UI, the error message is not displayed.	Cancel or Deactivate the pipeline and then delete.
In the Portal UI, when viewing the Jobs and Operations for a Pipeline Version, the new Jobs and Operations are not automatically added to the list while the list is open.	Refresh the Jobs and Operations pages to see the latest job or operation in the list.
Only a finite number of permissions are allowed for each app or user in the system across all services. It will be reduced depending on the inclusion of resources and types of permissions.	Delete Pipelines/Pipeline Templates to recover space.
The Pipeline Service will try to restart the pipeline in certain failure scenarios.	Users will have to cancel the pipeline to stop the system from trying.
Portal UI: During Pipeline Version configuration, when a user selects a catalog and then removes it, the same catalog doesn't reappear in the list of available options.	Refresh the page for the catalog to re-appear in the list.

Limitation	Workaround
The Artifact Service Wagon Provider uses Maven's standard settings file (settings.xml). This file is normally located at ~/.m2/settings.xml. In order to have the Artifact Service Wagon Provider work behind a corporate proxy, the proxy settings need to be added to this file.	To configure your Artifact Service Wagon Provider to work through a corporate proxy, add the following code block to your settings.xml file. If your proxy does not require a username/password, omit those properties.

```
<settings>
    <proxies>
        <proxy>
            <id>proxy1</id>
            <active>true</active>
            <protocol>https</protocol>
            <host>{enter your proxy host
here}</host>
            <port>{enter your proxy port
here}</port>
            <username>{enter your proxy
username here}</username>
            <password>{enter your proxy
password here}</password>
        </proxy>
        <proxy>
            <id>proxy2</id>
            <active>true</active>
            <protocol>here+https</protocol>
            <host>{enter your proxy host
here}</host>
            <port>{enter your proxy port
here}</port>
            <username>{enter your proxy
username here}</username>
            <password>{enter your proxy
password here}</password>
        </proxy>
    </proxies>
</settings>
```