



# Open Location Platform

## Release Notes

Version 1.6.0

# Important Information

## Notices

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**Topics:**

This section contains document notices.

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

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## Document Information

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# Chapter 1

## Overview

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### 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

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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. For more information, see the [HERE Open Location Platform website](#).

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

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### Topics:

- [New Features](#)
- [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.



## New Features

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

### Data

- Notifications Services enhancements including but not limited to:
  - Added the ability to subscribe to updates to partitions of versioned layers within a catalog.
  - Added the ability programmatically subscribe and unsubscribe.
  - Added the ability to receive multiple updates for various subscriptions (for example, to different catalogs) on a single notification stream.
- Stream Service enhancements to preserve message ordering:
  - Added more granular controls for ordering a subset of messages published via the Data Client Library, ensuring those messages can be consumed in the same order. This ordering can be important for sensor data use cases where customers need to see only the latest information available.

### Notebooks

- User sessions in Notebooks have been extended to up to 72 hours. Previously, user sessions were limited to one hour.
- Long-running Spark jobs (up to 72 hours) are now supported. Previously, Spark jobs were limited to one hour.
- Change Notebooks to support an updated version of the Data Service Connector and Location Library. For more information, see the "Upgrade and Install Libraries" section in the Notebooks User Guide.
- Updated the sample notebooks to support the updated libraries. For more information, see the release notes included in the sample notebooks.

### Pipelines

- Changed log levels for running and non-running pipelines:
  - Added support for the following log levels: info, debug, warn (default), error
  - To change or view the log level, use the OLP CLI or version 2 of the Pipeline API. You can also view the log level via the Portal UI.
  - Stream pipelines in Running state will need to be either restarted or Paused and Resumed
  - Batch pipelines' next job will automatically pick the user-defined log-level or the default log-level 'warn'
- Pipeline Status Dashboard and Failure Alert
  - View status of pipeline jobs in a single dashboard
  - Receive alerts for failure of pipelines
- Pipeline Job Status available at Pipeline and Pipeline Version level in Portal UI

### OLP Portal

- Customers can provide their valuable feedback using the new user feedback collection tool.
- OLP customers will have an option to Opt-out of data collection for web analytics (As part of OLP's GDPR compliance).
- Added a glossary to allow customers to become familiar with OLP terms.
- Added a video index to centralize OLP video content.
- Added older versions of documentation to the repo.

- Downloadable PDF versions of Data Specification and User Guides are now available on the documentation page.
- Documentation page has added functionality enabling users to filter and learn about what's in the documentation before opening it.

## Functional and Behavioral Changes

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There are no functional or behavioral changes in this release.

## API Changes

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### Pipelines

- Added GET `/v2/pipelines/{pipelineId}/versions/{versionId}/logging-configuration` to allow you to retrieve the current logging configuration of a pipeline version.
- Added PUT `/v2/pipelines/{pipelineId}/versions/{versionId}/logging-configuration` to allow you to change the logging configuration of a pipeline version.

## Resolved Issues

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The following section summarizes major issues resolved in this release:

### Pipelines

- Portal UI:
  - Pipeline Template status is stuck in creating state when creating a new pipeline version using a brand new template.
  - User is unable to select a Runtime environment during copy as new pipeline process.
  - Pipeline Configuration screen didn't show Class Name field.

## Known Issues

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

- Some downloadable PDF documents have formatting errors.
- 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.
- Some traffic incidents aren't currently published in Real-Time Traffic's Incident Layer due to a missing translation between map referencing systems.
- Changes from HERE Reality Index Base to HERE Map Content are:
  - Renaming of layers

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- 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
- Pipelines can access the Internet outside of the platform. We don't officially support this behavior, and may prevent this in a future release. Be careful when 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 UI is only available for versioned and volatile layers. You are welcome to create your own visualization for your own schemas by creating a GeoJSON renderer and making it part of that schema. Out of the box, however, only data can be visualized that is formatted according to the following schema formats:
  - GeoJSON
  - HERE Reality Index Topology
  - HERE Reality Index Building Footprints
  - HERE Reality Index Cartography
  - HERE Traffic Flow
  - SDII
- Compute, Storage, and Transfer metrics are not fully available within Monitoring and Alerts.
- 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.
- Portal UI: Pipelines list page might be slow to load all the elements.
- Pipeline Version activation results in a wrong logging URL.
- OLP CLI allows you to create stream pipeline version using `--with-scheduler` parameter.
- Sometimes, pausing a Stream Pipeline with the Portal UI does not work.
- Pipelines: the resource allocation tag (also known as billing tag) doesn't work.
- A Pipeline Version, created and run instantly, cannot be scheduled.
- A scheduled Pipeline Version cannot be forced to run instantly.
- Sometimes, a Pipeline version takes some time to reach the running state even though the state shows Running. Due to this issue, it can't be paused or canceled immediately after it is run.
- When a Stream Pipeline is paused or canceled, certain errors are generated in the logs due to the sudden shutdown of pipelines. This is normal.
- Sometimes, a pipeline failure or exception takes more time to respond.
- Batch (Spark) Pipelines don't capture exceptions occurring in the Main or Driver class.

## Limitations and Workarounds

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

**Table 1: Limitations and Workarounds**

| Limitation  | Workaround  |
|---|---|
| Occasional HTTP 500 failures when attempting to read and write from a Volatile Layer.   | Retry the request.  |
| 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 available 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: <ul style="list-style-type: none"> <li>Versioned data at rest for new versioned layers</li> <li>Data retained in the stream layer per the user's data retention configuration (Time to Live)</li> <li>Notebooks</li> <li>In-flight data is not encrypted end-to-end, throughout the service</li> </ul> | 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, 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 the Troubleshooting section in the Pipelines Developer's Guide.   |
| 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.   |

# Open Location Platform Release Notes

## ► Changes



| Limitation   | Workaround  |
|--|---|
| 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.                              |
| The HERE Reality Index Base catalog has not been updated since late March 2018 and will be deprecated on July 1 2018.  | All OLP users should use the HERE Map Content catalog for developing with the HERE Map. |
| Pipeline Status Dashboard can be edited by users. Any changes made by the user will be lost when updates are published in future releases. Also, the dashboard will not be available for user edits in a future release. | Duplicate the dashboard or create a new dashboard.                                      |
| When a Pipeline's log-level is changed, the LEVEL column in Splunk is not populated with the current log-level.  | The log message contains the log-level.   |
| In the Portal UI, when a Pipeline Version is deleted, it doesn't disappear immediately.  | Refresh the page for the deleted Pipeline Version to not appear in the list.            |