



Open Location Platform

Release Notes

Version 1.6.1

Important Information

Notices

Topics:

This section contains document notices.

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

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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. 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

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

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

- Added a step-by-step guide explaining how to apply CI/CD techniques using the OLP. See <https://openlocation.here.com/en/resources/documentation>
- Added a step-by-step example showing how to apply CI/CD techniques using Jenkins.
- Portal UI: When inspecting data layers following the Schemas for Traffic Flow data, Building Footprints or Cartography data, you can select visualized objects to expand the relevant section in the decoded data panel. This was previously only supported for Topology Geometry data layers.
- We have made some esthetic changes in the Metrics and Alerts tooling. The Billable Usage dashboard in this section has also been retired. Please visit the HERE Credit dashboard at <https://platform.here.com/profile/credit-usage> to see metrics related to your Billing Usage.

Functional and Behavioral Changes

Location Library

- When a road segment is not traversable by any kind of vehicle in a given direction, a `PropertyMap` created by `PropertyMaps.roadAccess` no longer returns a `Seq.empty`, but a single range that covers the full segment with the value `false` or `RoadAccess.None` depending on the property.
- `CacheManager.withLruCache()` now uses smaller cache sizes to avoid running out of memory.
- Changed `HereMapContentReference` to use `com.here.platform.location.integration.heremapcontent.PartitionId` instead of the internal `com.here.platform.location.compilation.core.PartitionId`.

API Changes

Location Library

Added

- Added `CacheManager.withLruCache(maxByteArrayEntryCount, maxDefaultEntryCount)`.
- Added `InMemoryLruCachePolicy(maxByteArrayEntryCount, maxDefaultEntryCount)`.

Deprecated

- Deprecated `CacheManager.withLruCache(size)` and `InMemoryLruCachePolicy(size)` as `ByteArray` and `HighLevel` objects have very different weight in memory. Therefore it does not make sense to cache the same number of entries for each cache level.

Resolved Issues

The following section summarizes major issues resolved in this release:

Pipelines

- Fixed an issue so that the CLI now allows the creation of a stream pipeline version using the `--with-scheduler` parameter.
- Fixed an issue to align character limits between the Pipeline API and Portal. The API character-limit for `inputCatalogHRN` and `outputCatalogHRN` fields is 62. The Portal previously allowed a user to specify more than 62 characters in the Pipeline Configuration page.
- Fixed an issue where resource allocation tag (also known as billing tag) didn't work.
- Fixed an issue where Batch (Spark) Pipelines didn't capture exceptions occurring in the Main or Driver class.
- Fixed an issue where the Pipeline Service would try to restart the pipeline in certain failure scenarios.
- Portal UI:
 - Fixed an issue in the 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.
 - Fixed an issue where there were no warnings when the User is unable to create a pipeline if they don't have a group.
 - Fixed an issue where if a Pipeline Version is deleted, it isn't removed immediately.
 - Fixed an issue when creating a pipeline. The user can resubmit a pipeline if it fails to create the first time.
 - Fixed an issue when copying a pipeline version. The Cancel button returns the user to the detail page.
 - Fixed an issue when copying a pipeline version. A user couldn't edit the pipeline template name.
 - Fixed an issue where specific special characters broke the pipeline search functionality.

Schemas

- Fixed an issue when after removing a schema which is associated with a layer, layer/schema configuration shows "None" and the schema drop down list never populates.
- Fixed an issue where the schema version order is not numerically based.

Known Issues

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 to HERE Map Content are:
 - The `adas_attributes` Layer has been updated to include ADAS Curvature coding on functional class 5 (FC 5) road segments in North America and Western Europe. It now includes Curvature on all road segments (FC 1-5) in NA and WEU .
- 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.
- 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.
- Sometimes, pausing a Stream Pipeline with the Portal UI does not 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.

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 5xx failures when attempting to read and write from Volatile and Versioned 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.

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Limitation	Workaround
Limited data encryption. Encryption is limited to: <ul style="list-style-type: none">• 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, 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.	For the property value, there is no workaround. Users must stay within this limitation. For property name, users can define a shorter name in configuration and map that to the actual, longer name within the pipeline code.
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.
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, volatile layers cannot be visualized or decoded in Safari and in some Firefox configurations.	Use Chrome browser to visualize and decode volatile layers.

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Limitation	Workaround
Pipeline can still be activated after a catalog is deleted.	The pipeline will fail when it starts running and will show the error message about missing catalog. Re-check the missing catalog or use a different catalog.
