



FABRIC V7.1.0 RELEASE NOTES

These Release Notes describe the new features in Fabric release V7.1.0 and list bugs that have been fixed since the V7.0.1 release.

Certification of this Fabric release is based on:

- Cassandra version 3.11.12 and 4.0.3
- SQLite version 3.39.2
- Open JDK version jdk-8u322 and jdk-17.0.3.1
- Kafka version 3.2.0
- Confluent Kafka version 7.2.1
- OrientDB - 3.1.3-tp3 and 3.2.4-tp3
- Elasticsearch - 7.16+ and 8.5.3
- AWS OpenSearch - 1.3.4

MAIN FEATURES AND IMPROVEMENTS

1. MTable

- An MTable is an object created in the Fabric memory upon the deployment, from a CSV file. The purpose of an MTable is to keep reference data as part of the Fabric project and to enable a **fast in-memory** data lookup at run-time.
- The data lookup can be performed by one or several MTable keys. The search index is created on-the-fly during the first select, based on the search keys.
- It is recommended to use MTables for small static lists of reference data.
- **LIST MTABLE** is a new LIST command, to list the deployed MTables.
- New actors are added, to work with MTables (see below in the Broadway > New Actors section).

https://support.k2view.com/Academy/articles/09_translations/06_mtables_overview.html

2. Broadway

General

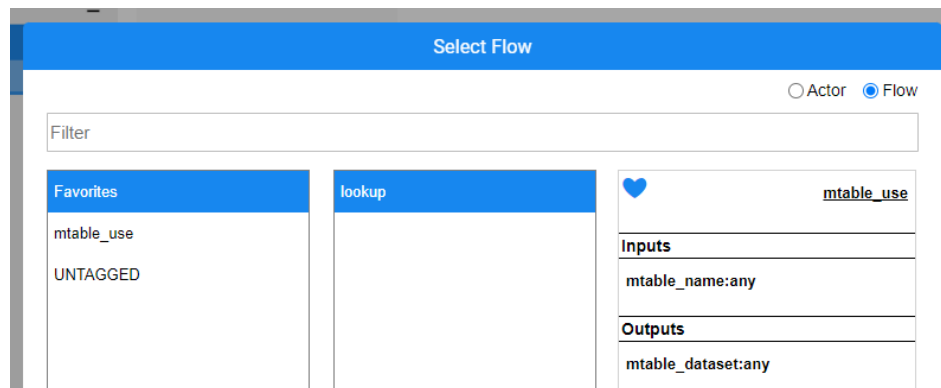
- You can now create a **folder** under Broadway, to better organize your flows. In addition, you can tag a flow and add a flow description.
 - A flow, created in a folder, is automatically tagged with a folder name. A tag can be updated. Multiple tags per flow are supported.
 - The flow name must be unique across all folders in the same LU.

https://support.k2view.com/Academy/articles/19_Broadway/33_flow_properties.html

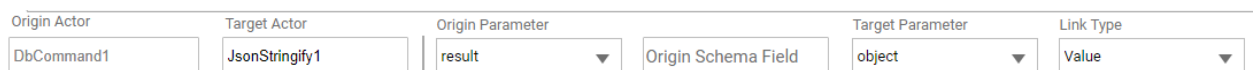
- Flow / Actor unification is introduced, providing the following capabilities:
 - An actor can now be invoked from the **InnerFlow** actor. To support that, the drop-down list containing the list of flows is replaced by the popup screen which can be open by clicking on the Expand icon:



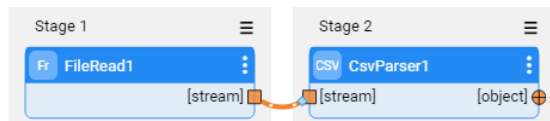
- An inner flow can now be added to a flow from the Add Actor screen by switching the radio button from **Actor** to **Flow** in the popup screen and selecting a flow. An InnerFlow actor is then added, and it includes the selected flow.



- The Link Editor has been enhanced with the ability to set the **Link Type**:



- The link can now be dragged from one port to another, which is indicated by the blue dot:



New Actors

- MTableLookup**, **MTableRandom** – for fetching data from an MTable by the given key(s) or without any key.
- MTableLoad** – for either creating a new MTable dataset or replacing an existing one in the Fabric memory.

https://support.k2view.com/Academy/articles/19_Broadway/actors/09_MTable_actors.html



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- **InnerFlowDynamic** – extends an **InnerFlow** Actor. The actor can receive a flow name and a map of input arguments with their values **at run-time**. The output is a map of an inner flow's output arguments and their respective values.
- **SysEnv** – reads an environment variable, either from the Java properties (-D) or from the system environment. If a variable name is not supplied, the actor returns a map of all Java and system properties.
- **Data Manufacturing** actors' category (tag) – includes a list of actors for generating various types of fake but valid values such as: SSN, email, credit card number.

3. Reference Tables Backup and Restore

- It is now possible to back up reference tables by schemas or 'ALL' (i.e., defining all schemas for a backup). This capability facilitates the act of either restoring a node if its reference tables data gets out of sync or synchronizing the reference tables data to a newly joined node. The following commands are available:
 - **REF_BACKUP** is a new command, to back up a snapshot of the specified CommonDB schema and place it into the configured storage.
 - **REF_BACKUP_DELETE** is a new command, to delete a backup of the specified CommonDB schema from the configured storage.
 - **REF_BACKUP_DOWNLOAD** is a new command, to download a snapshot of the specified CommonDB schema from the configured storage into the specified path.
 - **LIST REF_BACKUPS** is a new command, to list the ref schema backups.

[https://support.k2view.com/Academy/articles/22_reference\(commonDB\)_tables/03_fabric_commonDB_runtime.html](https://support.k2view.com/Academy/articles/22_reference(commonDB)_tables/03_fabric_commonDB_runtime.html)

4. Graphit

- Search capabilities

5. Miscellaneous

- The following **new non-DB interface types** are now supported by Fabric and can be used by the Interface Listener to detect new files added to the storage:
 - Amazon S3 Storage
 - Azure Blob Storage
 - Google Cloud Storage
- **SET CLUSTER_DISTRIBUTE_AFFINITY = <AFFINITY>** is a new command, to distribute the following command to the specified affinity. Use **ALL** to distribute the following command to all live nodes.
- **LIST BROADWAY_FLOWS/BF** command was enhanced with the following capabilities:



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- [SHOW=FLOW/ACTOR/CORE_ACTORS/ALL] – when specified, the result will include only the select type. Default is FLOW. When SHOW=ACTOR, only project actors are displayed. When SHOW= CORE_ACTORS, only the core actors are displayed.
- [TAG=NAME] – when specified, the result will include only the flows/actors with the given tag.
- [FILTER=<REGEX>] – when specified, the result will be filtered by the given expression.
- Note that the population flows have been excluded from LIST BF command's results.

- Secret Manager

RESOLVED ISSUES

- Ticket 33247 – LU Table population is failing on Child tables with sources as Cassandra and having multiple values coming from Parent table. The problem has been resolved.
- Ticket 33855 – The Broadway FileWrite actor does not write files bigger than 1KiB to S3 bucket. The problem has been resolved.
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