

FABRIC V6.2.2: MAIN FEATURES AND IMPROVEMENTS

These Release Notes describe the new features in Fabric version 6.2.2 and also list the bugs that have been fixed since version 6.2.1.

Certification of this Fabric release is based on:

- Cassandra version 3.11.6.
- SQLite version 3.27.2.
- Open JDK version jdk-8u252.
- Confluent Kafka version 5.5.1.

Fabric Studio

- A debug can now be run on the Studio in a remote Fabric Server installation.
- The displayed deployed LU Status icon is now based on the debug environment.
- In Broadway, the Flow Break Point triggers brings the tab to front.
- Fabric Console: the title in the Console Command window has been updated and now displays the debug environment IP address and port.
- FabricLocal has been removed from the by-product DB types list.
- Auto Discovery now offers support for SQLite interfaces.
- A built-in Fabric interface can now be added to a population or schema database list to create populations.
- The DB interface Newest LU file has been removed whereby a debug can now be run on a real Fabric server.
- The following Alert message is displayed when an attempt to debug a disabled population is made: "This population is disabled in the LU schema. To debug it, enable the population and then redeploy."
- The following changes have been made to User Preferences - Server configurations:
 - The Server Configurations tab is now displayed first.
 - A new Fabric Console button that opens the console using the selected server's host, jdbc port, user and password has been added.
 - A new Web Admin button that opens the Web Admin using the selected server host and web server port information has been added.
 - A radio button has been added to mark the debug environment.

CDC

- Cdc_republish_instance, the TRUNCATE=true/false (optional) parameter has been added:
 - TRUNCATE=TRUE (default), execute the delete then insert.
 - TRUNCATE=FALSE - send only inserts. This mode is much faster assuming that data has already been cleaned.
- Upsert logic has been updated and now issues Insert or Update commands instead of Delete and Insert. If data does not exist, an Insert is issued, otherwise an Update is issued.

Broadway

- Http Actor, a new mode has been added that returns an error's status code and data. Network errors are still handled as exceptions.
- Http Actor creates header fields according to the requested format (JSON/XML).
- HttpDemoServer Actor, added logging of request method, path, headers and payload so it can be used to analyze request formation.
- HttpDemoServer Actor, added /error and /echo path to be able to test more use cases against the demo server.
- DBLoad Actor, a new mode has been added whereby a statement no longer contains fields that have null values.
- Hovering over the name of the actor or stage now displays its full name.
- Logs now display the commands of all failed DBCommand actors.
- Table and schema names can now be defined as external Broadway parameters and be populated in an automatically generated flow that handles these parameters dynamically. For example, when copying a table between LUs.
- Actors can now be disabled.
- DbCommands, the new `#{@PARAM}` syntax enables updating parameters that are not prepared statements. Queries can now be created before using a StringFormat. For example:

```
SELECT * FROM #{@table} WHERE #{@col} > {paramValue}
```

If the resulting SQL is the same as in the previous run, the prepared statement is not recalculated.

- The following new actors have been added:
 - ◆ DBDelete, deletes the data from a database based on keys.
 - ◆ CsvBuilder, writes the data to a csv file.

- ◆ MapMerge, provides a list of maps (varargs) and merges them into a single map.
- ◆ MapDiff, provision of two maps (A and B) and returns one map with items in B that are not in A.
- ◆ DbCassandraCreateTable, inherited from DbCreateTable, adds Cassandra support to create cluster/partition keys.
- ◆ HttpJson, automatically stringifys and parses JSON data
- New Broadway actors can now be deployed in an implementation.
- DBLoad, upsert support for Oracle and MySql.
- DBLoad, tables and columns are case insensitive.
- Studio, a Broadway UI plugin has been added for selecting and opening an inner flow.

Fabric Commands

- When running the SET command and passing a GLOBAL as a parameter, it returns the value of the GLOBAL, even if there is no override.
- A new close_all command has been added to the Studio that closes all open debug sessions when opening a project.
- The List BF command now enables input/output parameters types in a schema to get the flow parameter's value.

iidFinder

- Definition of dynamic time zones: The new GLOBAL_FORMATTER_NAME parameter has been added to the iifConfig.ini file to support dynamic time zone definition in datachange.opTimestamp field.
- AVRO format now supports key registration with SSL.
- Generate IID Finder XML, tables and columns are case insensitive.

Common

- Common Loader Change Retry mechanism. The following activities are performed during physical (non-grouped) transactions:
 - ◆ Physical errors, the system retries the transaction. The default is infinite (-1).
 - ◆ Logical errors, the system immediately skips to the next transaction.The following activities are performed during logical (grouped) transactions:
 - ◆ The system immediately reverts to running the individual transactions.
 - ◆ There are no re-tries.

- Support has been added for Kafka messages that are larger than 1M (default Kafka configuration). The parameters have been added to configuration files under the [common_area_kafka_producer] and [common_area_kafka_consumer] sections.

Miscellaneous

- The isAlive API has been added and indicates whether Fabric is up and running on a specific node.
- FabricRemote connections are now stateful.
- The ReportUserMessage API has been deprecated.

FABRIC V6.2.2: RESOLVED ISSUES

- Broadway:
 - ◆ The Interface editor now displays the Studio interfaces dropdown list in Debug/Run arguments.
 - ◆ Broadway as a Population: The Save as option for a population flow is now available.
 - ◆ When pressing the DB button a schema can be selected.
- The new RECONNECT_MAX_DELAY_MS default 20000ms option has been added to the config.ini file to reconnect the Studio if it has been open for an hour without activity.
- getTranslationValues, returns a map holding a null value for each output column when the key is not found instead of a null object.
- iidFinder, the movement from Solo to Delta table logic for multiple populations has been fixed.
- Generate IID Finder XML has been fixed to handle primary key generation correctly.
- Studio, supports generic DB Cassandra interfaces in the QueryBuilder.
- API getMigrationID() returns the migrate id and not an execution migrate id.