FABRIC V7.0.1 RELEASE NOTES

These Release Notes describe the new features in Fabric release V7.0.1 and list bugs that have been fixed since the V7.0 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-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. Fabric PubSub

- An enhancement to the **publisher** and **subscriber UserCode** methods that were exposed to publish and subscribe messages via the PubSub section name in V7.0. The UserCode can now receive one of the following: a Kafka interface name, a PubSub interface name or a PubSub section name.

  ```
  try (IoSession session= pubsub("section_name")) {
  session.publisher(Util.map()).send(msg,Util.map("TOPIC", topic));
  }
  ```

- Offset was added to the in-memory broker.
- PubSub code improvement and minor bug fixes.

2. Broadway

General

Code improvement, usability and minor bug fixes.

New Actors

SubscribeWithMetadata – extends the SubscribeBatch actor and returns the message including its data ('value' field) and metadata (timestamp, key, topic, partition and offset fields).

3. Miscellaneous

- **Elasticsearch** – below are the impacts of upgrading to a higher version of ES driver:
  - o ES is now secured by default. If you need to bypass the security, you can change the ES configuration prior to starting it. Check the Upgrade document for more details.
  - o Internal ES structure changes: when AS_JSON is set to true in the SEARCH command, the internal part of the command output structure might change now.
  - o Due to ES upgrade to V8.x, the syntax of providing an array of column names is not supported:

    search lutype=<LU_NAME> tables=<TABLE_NAME> '{"_source": [<array of column names>], "query": {"match_all": {}}}';

    Use the following syntax instead:

    search lutype=<LU_NAME> tables=<TABLE_NAME> '{"fields": [<array of column names>], "query": {"match_all": {}}}';
  - o Code improvement and minor bug fixes.
- **Integration with AWS keyspaces** – code improvement and minor bug fixes.
- **Graphit** – code improvement and minor bug fixes.
- **iidFinder** – code improvement and minor bug fixes.
- **Common** - DELETE_OLD_SNAPSHOTS_ON_SYNC was removed from [common_area_config] section of the config.ini. The snapshots should be deleted manually, if needed.
- **Interface listener** enhancement with the ability to add file listener interval to interface parameters.
- **Node.id.template** was enhanced with the ability to override the logic of taking the DC name from Cassandra into the Fabric cluster.
- Fabric HELP improvements (e.g. GETF).
- Migrate performance improvement comparing to V7.0.

RESOLVED ISSUES

- Ticket 31730 – Studio query builder loses the query. The problem has been resolved.
- Ticket 32422 – Local Fabric Reset drop stops working after some time. The problem has been resolved.
- Ticket 32207 – Local File System no filter does not work. The problem has been resolved.

- Ticket 32578 – Fails to parse response from Elasticsearch after insert. The problem has been resolved.

- Ticket 32846 – Fabric start script on Windows causes a failure with some libraries. The problem has been resolved. The Fabric start script in the Studio was improved by adding the key store params only when they are defined.

- Ticket 32884 – Fabric Studio creates a Web Service that cannot be compiled. The problem has been resolved.

- Ticket 32577 – buildArtifacts.bat script doesn't work. The problem has been resolved.