FABRIC RELEASE NOTES VERSION 6.3

FABRIC V6.3: MAIN FEATURES AND IMPROVEMENTS

These Release Notes describe the new features in Fabric version 6.3 and also lists bugs that have been fixed since version 6.2.3.

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.

iidFinder

- Support for a higher number of many to many parent and child relationships has been added. Relationships previously presented in the *_c Cassandra cache table as a set in one row, are now divided into several rows representing the number of originally set elements. The new cache table is named *_d.
- To improve performance, the iid list as a single string has been added to each * _k Cassandra cache table row.
- The Notice table has been removed.
- The Orphan job option has been replaced by the Orphan Removal job which is set as a user job as part of the project's implementation.
- The logic for searching for orphans during the Get command has been removed.
- The Blacklist table has been updated to iid_info.
- Introducing new Message Filtering feature that can be used to manipulate data before it is processed. for example: Implementing changes in data content or structure like column or table names; Omitting specific tables; Skipping specific commands, like Delete; Splitting a message into several messages.

  To apply Message Filtering, filtering code shall be written which implement an interface. This interface enables setting which data level shall be handled – all or table, and what shall be done. For more information, instructions and example refer to the Fabric Java API Documentation.

FABRIC V6.3: RESOLVED ISSUES

- Freshdesk ticket #19009: LPK on a non PK field now creates a record in iid_info if the iid_list has been previously updated with a value.
- Freshdesk ticket #19026: A cross-instance now works when the iid_list has been previously updated.
- Recent defect fixes from Fabric release 5.3.18 have been merged.
- Freshdesk ticket #19023: “LPK triggered trx now expect delta on multiple instances”.
- Freshdesk ticket #19140: “When updating an luid field from the current luid to the target luid, the ID Finder sends the delta trn for the target luid”.
- Freshdesk ticket #19694: “LCK - Update link field to null”.

FABRIC V6.3: UPGRADE

Customers using the iidFinder in previous releases are required to run the upgrade script:

- Script location: “~fabric/upgrade/toV6.3”
- Script name: upgrade_script.sh
- Script syntax: upgrade_script.sh <user> <password> <host> <port> <threadpool> <internalTableThreadpool> <keyspace> [<table>]

Where:

Parameter	Description
<user>	Cassandra user.
<password>	Cassandra password.
<host>	Cassandra host.
<port>	Cassandra port.
<threadpool>	Number of threads for handling the table.
<internalTableThreadpool>	Number of internal threads per table that handle bulks of 1000 rows.
<keyspace>	[Optional] upgrade a specific keyspace. Used when there are several keyspaces and the script runs on a specific keyspace.
<table>	[Optional] upgrade a specific table. Used after running an upgrade which skipped a specific table due to an error. This option enables updating the specific table.

- Before running the script, verify that the IIDFinder is down in all cluster nodes. There is no need to stop Fabric.

- It is recommended to drop the old tables following a successful upgrade and once the system is up and running as expected.
- The upgrade process period depends on the data's size and the upgrade environment. For example, during a performance on an AWS, the upgrade time was less than 1 minute for 1 million rows. The measured AWS included 10 Cassandra nodes with i3.2xlarge.