

Release Notes 1

DLM Release Notes

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DLM 1.5.0 Release Notes

This document provides you with the latest information about the Data Lifecycle Manager (DLM) 1.5.0 release and its product documentation on docs.hortonworks.com.

You should also review the [DataPlane \(DP\) Release Notes and documentation](#).

What's New in this Release

The DLM Service 1.5.0 release includes the following new features:

Summary	Category	Description
External Table Replication	Hive	Replication of External Tables to target clusters as external Hive tables, so that external tables can be used for running non-Hive workloads. This feature is supported for replication from source cluster HDP 2.6.5/3.1 to target cluster 3.1. For more information, see External Tables Replication in the <i>DLM Administrator's Guide</i> .
ACID Tables Replication	Hive	ACID tables replication involves full ACID and micro-managed table replication. ACID tables replication is supported only when source cluster is HDP 3.x. For more information, see ACID Tables Replication in the <i>DLM Administrator's Guide</i> .
Trusted Proxy	DLM Engine	Installing DLM using trusted proxy setup requires very less changes to the existing cluster. Unlike the earlier setup, it does not require enabling SSO for Ambari, Ranger, and Atlas. Hence it is less intrusive. For more information, see Trusted Proxy for DLM in the <i>DLM Installation and Upgrade Guide</i> .
Statistics Replication	Replication	DLM now supports statistics-based replication on ACID and non-ACID tables. For more information, see Statistics replication in the <i>DLM Administrator's Guide</i> .
Command-Line Interface (CLI) support for DLM	Replication	DLM now supports policy-based CLI operations. For more information, refer to DLM operations using Command-Line Interface in the <i>DLM Administrator's Guide</i> .
Replication progress status	Replication	Replication progress can be tracked at individual policy level based on the component that gets replicated. For more information, see Tracking replication progress in the <i>DLM Administrator's Guide</i> .
Preserve timestamp during replication	Replication	By default, DLM now supports timestamp which is preserved for on-premise to on-premise replication, if both source and target HDFS support access time updates (<code>dfs.namenode.access.time.precision</code>). There is no option to configure this. Currently there is no support to preserve timestamp information for On-premise to Cloud replication.

Behavioral Changes

Some of the feature-based behavior changes are explained in this page.

Replication conflicts are handled when data is replicated between HDFS and Hive replication policies in the External Table location. Running Hive and HDFS replication policies ensures that the replicated data is not copied at the same External table location.

Known Issues

DLM has the following known issues, scheduled for resolution in a future release. Where available, a workaround has been provided.

Hortonworks Bug ID	Category	Summary
BUG-77340	Restart of HiveServer2 and Knox	<p>Problem: HS2 failover requires Knox restart if cookie use is enabled for HS2</p> <p>Description: When HiveServer2 is accessed via Knox Gateway and HiveServer2 has cookie-based authentication enabled, a HiveServer2 restart requires that Knox also be restarted to get Knox-HiveServer2 interaction working again.</p> <p>Workaround: Set <code>hive.server2.thrift.http.cookie.auth.enabled=false</code> in <code>hive-site.xml</code> in Ambari.</p>
BUG-111066	DLM UI	<p>Problem: DLM App start succeeds even with wrong master password for DataPlane Service keystore</p> <p>Description: After upgrading DLM App from older version of 1.1.3 to 1.1.3.0-28, all the cloud credentials were marked as unregistered.</p> <p>Workaround: Re-install the DLP App and initiate the app again. Provide the valid password to proceed.</p>
BUG-112068	Atlas	<p>Problem: Atlas replication does not work for incremental changes.</p> <p>Description: Incremental export not seen with fresh HDP installation.</p> <p>Workaround: Restart Atlas service once and later all incremental atlas replication works correctly.</p>
BUG-114953	DLM UI	<p>Problem: Incorrect statistics displayed for failed replication job.</p>
BUG -115909	HDFS replication	<p>Problem: HDFS replication fails from HDP 3.1 to 2.6.5 with Atlas replication enabled.</p> <p>Description: The data types of Atlas has changed between HDP 3.1 and 2.6.5. Atlas replication does not work from HDP 3.1 to 2.6.5.</p> <p>Workaround: You can enable HDFS replication from HDP 3.1 to 2.6.5 by disabling Atlas replication.</p>
BUG-120302	HDFS replication	<p>Problem: The policy instances are not triggered. It shows no jobs in the instances.</p> <p>Description: The replication policy is submitted successfully. But the instances do not get triggered even though it should according to the schedule. The policy row displays as no jobs and clicking on it displays 0 policy instances. This can happen if HDFS or any other related service is stopped or not running. It is applicable in case of Hive as well.</p> <p>Workaround: Check the cluster health and verify that all the required services are up and running.</p>

Fixed Issues

The following table lists selected issues resolved in DLM 1.5.0 release

Hortonworks Bug ID	Category	Description
BUG-118464	Replication	External Table replication validation fails when new policy is submitted
BUG-120137	DLM Engine	Pick Hive jar from DLM package
BUG-114953	Replication	Incorrect statistics displayed for failed replication job
BUG-113341	Replication	Handle alter events when replication takes place from HDP 2.6.5 to HDP 3.0
BUG-120039	Documentation	Update procedural steps for Hive cloud replication mentioned in DLM-1.2.0 DLM Administration guide
BUG-119848	Replication	Replicate streaming ingestion with transactional batch size as 1
BUG-119633	Replication	Incorrect value shown for "Next Run" column
BUG-81979	Replication	Use proper error message for delete API failure when source is down
BUG-113492	Documentation	Support conversion of Managed to External Table where location set was not owned by Hive
BUG-119792	Hive	External table location is not preserved at target when base dir is set as /.

Hortonworks Bug ID	Category	Description
BUG-119495	Hive	INSERT into a dynamically partitioned table with hive.stats.autogather = false throws a MetaException
BUG-112838	Replication	Get API for policies should return next instance run time for every non-suspended active policy
BUG-119018	Hive	Disable conversion of Managed Table to External and vice versa at source
BUG-119391	Hive	Dropping an External Table created by migration case should delete the data directory
BUG-117854	Hive	Hive should support clean-up of previously bootstrapped tables when retry is performed from different dump
BUG-118827	Hive	Replicating conversion of managed to External Table leaks HDFS files at target
BUG-79852	Beacon	Beacon REST APIs should consume JSON format and json/application content-type
BUG-119306	Distcp	Distcp fails with KMSClientProvider\$KMSTokenRenewer: keyProvider null cannot renew dt message