Informatica® Informatica
10.2.1 Service Pack 2

Big Data Release Notes

Informatica Informatica Big Data Release Notes
10.2.1 Service Pack 2
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Abstract

This document contains important information about Emergency Bug Fixes in Informatica 10.2.1 Service Pack 2.

Informatica 10.2.1 Service Pack 2

Informatica 10.2.1 Service Pack 2 contains multiple emergency bug fixes. The service pack supports Informatica big data products such as Big Data Management, Enterprise Data Catalog, Enterprise Data Lake, and Big Data Quality.

To get the service pack, contact Informatica Global Customer Support.

Service Pack Path

You can install 10.2.1 Service Pack 2 on *Informatica 10.2.1*, *Informatica 10.2.1 Service Pack 1*, or *Informatica 10.2.1 Update1*. If you are upgrading from versions *10.0.0*, *10.1.0*, *10.1.1*, or *10.2.0* to version 10.2.1 Service Pack 2, you must upgrade all the application services along with the Informatica domain to version 10.2.1 before you apply the service pack.

To determine the current Informatica product version, click **Help** > **About Informatica Administrator** in the Informatica Administrator header area.

For more information about the service pack paths in version 10.2.1 Service Pack 1, see the *Informatica 10.2.1 Service Pack 1 Big Data Release Notes*.

Note: For information about Support EOL statements, contact Informatica Global Customer Support or see https://network.informatica.com/docs/DOC-16182.

Files

Informatica provides the service pack in .tar file and .zip file formats. After you download the service pack, extract the file contents. The service pack is available for Linux and Windows installations.

The service pack includes the following files:

Input.properties

Identifies the root directory of the Informatica installation to which you will install the service pack. You update the file with the directory path. The file also contains a rollback property that you can set if you decide to uninstall the service pack.

install.bat

Installs the service pack to the directory that you specify on a Windows machine. Find the file in the Windows installer.

install.sh

Installs the service pack to the directory that you specify on a Linux machine. Find the file in the Linux installer.

CHAPTER 2

Installation and Rollback

To install the service pack, you can verify the system requirements, download the installer files, update the *Input.properties* file, and run the installer.

You can run the installer to apply or roll back all product components or just a product component. After you install or roll back the service pack, complete the post-installation steps.

To roll back the service pack, set the rollback property in the *Input.properties* file, and then run the installer.

Verify System Requirements

Informatica big data products support a variety of Hadoop distributions. In each release, Informatica adds, defers, and drops support for Hadoop distribution versions. Informatica might reinstate support for deferred versions in a future release.

Verify that your environment meets the minimum system requirements, such as operating systems and Hadoop distributions.

To see a list of the latest supported versions, see the Product Availability Matrix on the Informatica network: https://network.informatica.com/community/informatica-network/product-availability-matrices.

Download the Installer Files

To apply the service pack, you can download the server installer, Informatica Developer tool installer, and command line utilities package.

1. Download one of the following packages:

   - **informatica_1021SP2_server_linux-x64.tar**. Contains updates for Redhat Enterprise Linux installations.
   - **informatica_1021SP2_server_suse11-x64.tar**. Contains updates for SUSE Linux Enterprise Server installations.

2. Download the following package for Informatica Developer:

   informatica_1021SP2_client_winem-64t.zip. Contains updates for Windows Developer tool installation.

3. Download one of the following packages for command line utilities:

   - **informatica_1021SP2_cmd_utilities_linux-x64.zip**. Contains updates for Redhat Enterprise Linux installations.

- **informatica_1021SP2_cmd_utilities_suse11-x64.zip**. Contains updates for SUSE Linux Enterprise Server installations.

Input.properties File

The Input.properties file includes properties that identify the Informatica installation and define the action taken when you run the service pack installer file. Update the properties before you install or roll back the service pack.

You can update the following properties before you install or roll back the service pack:

DEST_DIR

Enter the Informatica root directory path. For example,

```
DEST_DIR=/home/informatica/10.2.1SP2/
```

ROLLBACK

Enter the value **0** to apply the service pack. For example,

```
ROLLBACK=0
```

Enter the value **1** to roll back the service pack. For example,

```
ROLLBACK=1
```

BDM_ONLY

To apply or roll back only the Big Data Management component, remove the comment tag (#) for the property. For example,

```
BDM_ONLY=1
```

EDC_ONLY

To apply or roll back only the Enterprise Data Catalog component, remove the comment tag (#) for the property. For example,

```
EDC_ONLY=1
```

EDL_ONLY

To apply or roll back only the Enterprise Data Lake component, remove the comment tag (#) for the property. For example,

```
EDL_ONLY=1
```

You can apply or roll back the service pack for all product components or a specific component. When you install or roll back the service pack, the installer applies all the components, by default.

You can customize the service pack installation or roll back for Big Data Management, Enterprise Data Catalog, or Enterprise Data Lake.

The service pack applies the individual components for the customized product application in the following order:

1. Big Data Management
2. Enterprise Data Catalog
3. Enterprise Data Lake

For example, if you want to install Enterprise Data Catalog, the service pack applies the Big Data Management component and then applies the Enterprise Data Catalog component.

The service pack rolls back the components for a customized product application in the following order:

1. Enterprise Data Lake
2. Enterprise Data Catalog
3. Big Data Management

The following table lists the properties that you must configure in the Input.properties file to *apply* a customized product application:

Customized Product Application	Properties
Big Data Management	ROLLBACK=0 BDM_ONLY=1
Enterprise Data Catalog	ROLLBACK=0 BDM_ONLY=1 EDC_ONLY=1
Enterprise Data Lake	ROLLBACK=0 BDM_ONLY=1 EDC_ONLY=1 EDL_ONLY=1

The following table lists the properties that you must configure in the Input.properties file to *roll back* a customized product application:

Customized Product Application	Properties
Big Data Management	ROLLBACK=1 BDM_ONLY=1
Enterprise Data Catalog	ROLLBACK=1 BDM_ONLY=1 EDC_ONLY=1
Enterprise Data Lake	ROLLBACK=1 BDM_ONLY=1 EDC_ONLY=1 EDL_ONLY=1

Updating the Input.properties File

Update the Input.properties file before you install or roll back the service pack.

1. Extract the service pack file.
2. Find the *Input.properties* file in the service pack.
3. Update the *DEST_DIR* property in the file with the path to the Informatica root directory.

- On a Linux machine, set the path in the following format:

  ```
  DEST_DIR=/home/infauser/<version number>
  ```

- On a Windows machine, set the path in the following format:

  ```
  DEST_DIR=C:\\Informatica\\<version number>
  ```

4. Configure the value of the *ROLLBACK* property. To install the service pack, retain the default value of **0**. To roll back the service pack, set the value to **1**.

5. To use the following properties, you can remove the comment tag (#):

- #BDM_ONLY=1

- #EDC_ONLY=1

- #EDP_ONLY=1

6. Save and close the file.

Running the Installer

Run the installer file to install the service pack or roll back the service pack after you install.

1. Close all Informatica applications and stop all Informatica services.

2. Find the installer file in the service pack files and extract the file.

- For Linux systems, the installer file is *install.sh*.

- For Windows systems, the installer file is *install.bat*.

CHAPTER 3

Post-Installation Steps

After you install the service pack, perform the post-installation tasks that apply to your product.

Delete Analyst Service Directories

After you download and apply the service pack, perform the following steps:

1. Verify that the Analyst Service is not running.
2. Delete the following directories from the 10.2.1 Service Pack 1 installation:
    - <Informatica root directory>/services/AnalystService/analyst
    - <Informatica root directory>/services/AnalystService/analystTool
    - <Informatica root directory>/services/AnalystService/mappingspec
    - <Informatica root directory>/tomcat/temp/<analyst_service_name>

      If the *temp* directory contains multiple Analyst Service directories, delete the directory for each Analyst Service.
3. Restart the Analyst Service.
4. Clear the browser cache on the client machines.

Sqoop Mappings on the Spark Engine

When you run Sqoop jobs on the Spark engine, the Data Integration Service creates a Sqoop staging directory named `sqoop_staging` within the Spark staging directory by default. You configure the Spark staging directory in the Hadoop connection.

Based on your processing requirements, you might need to create the directory manually. When you create the `sqoop_staging` directory manually, the Data Integration Service uses the directory that you create and does not create another one.

Create a Sqoop staging directory named `sqoop_staging` manually when the following cases apply:

- You run a Sqoop pass-through mapping on the Spark engine to read data from a Sqoop source and write data to a Hive target that uses the Text format.
- You use a Cloudera CDH cluster with Sentry authorization or a Hortonworks HDP cluster with Ranger authorization.

After you create the `sqoop_staging` directory, you must add an Access Control List (ACL) for the `sqoop_staging` directory and grant write permissions on the directory to the Hive super user.

If you use a Cloudera CDH cluster or a Hortonworks HDP cluster, run the following command on the cluster to add an ACL for the sqoop_staging directory and grant write permissions to the Hive super user:

```
hdfs dfs -setfacl -m default:user:hive:rwx /<Spark staging directory>/sqoop_staging/
```

For information about Sentry authorization, see the Cloudera documentation. For information about Ranger authorization, see the Hortonworks documentation.

Note: If you do not define a Spark staging directory on the Hadoop connection, create the Spark staging directory at the following location: `/tmp/SPARK_<impersonation_user_name>/sqoop_staging`.

CHAPTER 4

Emergency Bug Fixes

Informatica 10.2.1 Service Pack 2 contains the following emergency bug fixes:

Issue Key	Summary
EBF-14706	MRS-1946 Need option to configure idleconectiontimeout period C3p0 property for Embedded MRS
EBF-14682	Port EBF-12503 - Infacmd fails with "Command [startWorkflow] failed with error "due to connection interruption - on top of 10.2.0HF2
EBF-14520	OSGI initialization change in infacmd profile commands causes intermittent failures when run concurrently
EBF-14483	10.2.1 SP1: DIS: Unable to start workflow after encountering broken connection with user management service
EBF-14451	Port of EBF-14192 to 10.2.2 || Lineage Service throws NullPointerException if there is no Return Port specified for the Lookup Transformation (Connected Lookup)
EBF-14446	Need fixes for EBF-13798 & EBF-13548 on top of 10.2.1 SP1
EBF-14427	Catalog Service fails to start on 10.2.1 SP1 with external cluster and property "LdmCustomOptions.deployment.yarn.queue.name"
EBF-14393	Unable to import/export reference attributes
EBF-14363	Spark mappings fail when running with OSP unless DebugSparkSubmit flag is enabled: java.lang.RuntimeException: java.io.FileNotFoundException: File file:/infahome/tomcat/bin/disTemp/sessXXXXX/mappingname_MAPPING_xxxx.bin does not exist
EBF-14362	EBF for BDM-24245 - Unable to drilldown in Analyst tool or Developer tool on Decimal columns specific to locales using a comma separator ','
EBF-14360	Combo EBF || Bulk Import Fails with NullPointerException when Reference Attributes are updated.
EBF-14351	In EDC 10.2.1 SP1, Catalog Service does not come up and fails as ingestion job is not submitted
EBF-14298	Deployment between different environments is not overwritten
EBF-14296	Mapping with bucketed Hive table (Avro) on S3 fails with org.apache.hadoop.hive.serde2.SerDeException: Encountered exception determining schema. Returning signal schema to indicate problem: null
EBF-14294	ADLS scanner unable to scan JSON files greater than 1MB

Issue Key	Summary
EBF-14284	Rebuild: Forward Port: BDM-20200: Mapping compilation delays in EDRAuthorizer for 10.2.1
EBF-14279	Search from EDL Home page is slow when clicking on 'resources' link compared to EDC Home page
EBF-14267	Need fix for the profiling issue on Developer and Analyst tool when profile runs on huge table
EBF-14260	To deploy EDC services with Cloudera user having less than Operator Privilege
EBF-14241	EDC 10.2.1 Update 1 - Catalog Administrator displays Instance name as Database name for Oracle RAC databases
EBF-14234	SAP R/3 Table read in Developer has issues while reading DATS data (Jan -01-0001).
EBF-14233	Platform scanner with dynamic mapping failing in 10.2.1 with an exception + Add EBF-13260 on 10.2.1 U1 release is changed to 10.2.1 U1
EBF-14218	Make the Secure File Access configurable with OS profiles
EBF-14217	S@S 4.5/Informatica 10.2.1 - Profiling scan on S3 bucket with XML files fails with 'java.lang.NullPointerException'
EBF-14204	DPS process doesn't get security re-mediated
EBF-14192	Lineage Service throws NullPointerException if there is no Return Port specified for the Lookup Transformation (Connected Lookup)
EBF-14189	Yarn API issues after enabling yarn admin ACLs
EBF-14186	Platform scanner issues
EBF-14185	Filter doesn't get retained and reflected in the UI
EBF-14142	Combo EBF for EBF-14018, EBF 14103, EBF-13919
EBF-14141	Error: com.infa.products.lineagesvc.helpers.LineageVisitor.drawLinksToUnconnLkpTx(LineageVisitor.java:311) when loading a Platform resource in EDC
EBF-14140	Platform scanner is failing with error: Invalid command option: [xmx1g;
EBF-14108	Combo EBF - EBF-13928 and EBF-13887
EBF-14102	BDM 10.2.1 - Unable to modify the Sqoop staging directory for the mappings executed in 'Spark' mode
EBF-14094	Fix for BDM-19917 on top of 10.2.1 version - Unable to execute profiles using infacmd ps execute
EBF-14077	Profiling job for Salesforce fails for SELECT query without Where clause and NSORT memory issue
EBF-14065	To deploy EDC services with Cloudera user having less than Operator Privilege
EBF-14039	Provide EBF for EFR-244 : Enhance Sqoop to allow boundary-query option
EBF-14030	Asset lineage summary is not showing correctly for a PC mapping

Issue Key	Summary
EBF-14016	Groups users lose their privileges over OS Profiles
EBF-14008	Port EBF-11394 to 10.2.1
EBF-14007	Combo EBF || EBF-13985, EBF-12697, and EBF-13886 on top of EBF-12942.
EBF-13987	All the EDC resources are getting listed in EDC Catalog
EBF-13986	People and Classification custom attribute values disappear after resource description is modified in Catalog Administrator
EBF-13949	Port EBF-11421 on top of 10.2.1 SP1
EBF-13928	Max number of columns shown in Catalog UI is limited to 300 for a table for a relational resource
EBF-13924	10.2.1 EBF for BDM-21002 Dynamic mapping on Spark execution fails with InvalidMappingException in concurrency test
EBF-13905	Platform scanner failing in EDC 10.2.1 due to Execution Environment parameterization
EBF-13887	Hive Profiling : ImfConverterQueueExecutor is failing with NPE
EBF-13837	Combo EBF request to merge fix for EBF-13648, EBF-13647, EBF-13724
EBF-13810	Unable to check in deleted object - using Github
EBF-13788	BDM Scanner is not fetching all the connections of Dynamic Mappings.
EBF-13743	The CorrelationID as byte array is not supported in BDS due to the unsupported methods called by the method setMessageheader() as part of TIBCO jms adapter
EBF-13740	Lineage page is getting hanged while running the lineage from one particular object
EBF-13725	Combo EBF - EIC 10.2.1 U1 || Custom Attribute creation with Chinese name fails & editing the description for a column with Chinese name shows error || CASES: 02457404 and 02459799
EBF-13724	EBF request for BDM-23137 - Hive merge from update strategy fails with "Cardinality Violation" if duplicate keys exist in rejected rows even if forward rejected rows is set to false.
EBF-13718	PowerCenter scan fails in EDC with java.lang.ArrayIndexOutOfBoundsException
EBF-13711	S3 IAM policy support.
EBF-13709	Unable to create custom attributes with Chinese characters
EBF-13694	Metadata and Data Read privileges option is not appearing in case of ADLS for non-admin user due to this non-admin user is not able to see the profile value in EDC catalog
EBF-13686	EDC Plugin v1.1.88 - Search on the plugin keeps on loading without showing any results
EBF-13676	Bulk updating the custom attribute created using BG category is failing with NullPointerException
EBF-13669	In the Security tab for EDC, when clicking on certain LDAP users, resources come up instantly on the right, but for some LDAP users, it hangs with the loading screen on the right pane.

Issue Key	Summary
EBF-13658	In EDC 10.2.1 update1, profiling fails with error: SEVERE: [APPSDK_Msg_1762] Initialization failed with Exception: Operation CHECKACCESS failed with HTTP404 : FileNotFoundException
EBF-13641	Issues fixes
EBF-13633	Non-admin users are unable to see value frequency for Azure SQL resource
EBF-13577	Flat files profiling issues
EBF-13569	Changes in the Global Configuration is not getting reflected while scanning resources.
EBF-13541	PC scan does not complete with Auto Connections
EBF-13536	Combo EBF for EIC-13663 & EIC-14323 & EBF 13022
EBF-13472	EBF 10.2.1 Update1 - Internal objects of the Oracle database are extracted after applying EDC Update1
EBF-13465	Performance issues with lineage and loading the columns for particular tables
EBF-13462	Combo EBF for multiple issues - Linked EBF to include Auto assignment fix
EBF-13430	Support for EMR5.14 on top of EDC 10.2.1U1
EBF-13409	SATS: Cannot export data domain when connected to secure domain and CLI import issue
EBF-13406	EBF request for CORE-7218 Amazon Multi-AZ doman failover issue
EBF-13325	Loading data set is taking lot of time in EDL UI
EBF-13281	With clause is causing issue, all the tables present under with clause is not getting parsed due to which some table are missing in the lineage
EBF-13265	Clicking on the business term link does not bring to the right object
EBF-13221	Mapping Specification Export to Excel fails due to incorrect security domain used for authentication
EBF-13199	Need EBF for CR: IDE-3628 Unable to run a profile built on top of Sybase IQ (JDBC connection)
EBF-13175	Updating custom attribute is taking longer in EDC Catalog UI
EBF-13126	Relationships not shown for Redshift resource with PK-FK relationships in tables
EBF-13040	Combo EBF: Needs EBFs EBF-12310, EBF-12209, EBF-12332 on 10.2.1 Update1 || Case 02401993
EBF-12890	EBF - BDM 10.2.1 - Spark Streaming Mappings involving Hive Lookup fails with HDFS Delegation Token Renewal error
EBF-12697	Lineage missing for few mappings
EBF-11921	Port of EBF-11573 to 10.2.1

CHAPTER 5

Known Limitations

The following table describes the known limitations for Enterprise Data Catalog:

Issue Key	Summary
EIC-18077	When you run the Amazon Redshift resource, discovery fails with the **java.lang.RuntimeException** error.
EIC-17890	In Catalog Administrator, when you change the access permission for a user from **Metadata and Data Read** to **Read and Write**, the permissions for the user displays **All Permissions**.
EIC-17729	When you edit multiple assets simultaneously in Enterprise Data Catalog, you cannot assign business titles to the assets and the **OK** button becomes unresponsive in the **Edit Properties** dialog box.
EIC-17726	After you assign a value to a Boolean data type custom attribute, you cannot reassign a blank value to the custom attribute.
EIC-17724	When you edit a multivalued custom attribute of User data type and you clear all the users, the **Save** option gets disabled. To enable the **Save** option, you need to select at least one user.

C H A P T E R 6

Informatica Global Customer Support

You can contact a Global Support Center by telephone or through the Informatica Network.

To find your local Informatica Global Customer Support telephone number, visit the Informatica website at the following link:
https://www.informatica.com/services-and-training/customer-success-services/contact-us.html.

To find online support resources on the Informatica Network, visit https://network.informatica.com and select the eSupport option.