**Informatica®
Multidomain MDM
10.3 HotFix 1
Release Notes**
July 2019

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Contents

The *Informatica Multidomain MDM Release Notes* provide important information about known limitations of the release. Read this document carefully before you install Informatica® Multidomain MDM.

Version 10.3 HotFix 1

Multidomain MDM 10.3 HotFix 1 is the latest release in the version 10.x code line.

This release includes the following items:

- New features as described in the *Multidomain MDM Release Guide*.

- All fixed issues, features, and changed behaviors that were released in versions 10.3.

- All fixed issues, features, and changed behaviors that were released in versions 10.2 through 10.2 HotFix 2.
- All fixed issues, features, and changed behaviors that were released in versions 10.1 through 10.1 HotFix 5.
- All fixed issues, features, and changed behaviors that were released in versions 10.0 through 10.0 HotFix 5.

This release does not include the following items:

- Some fixed issues, features, and changed behaviors that were released in 10.1 HotFix 6 and 10.1 HotFix 7.
- Some fixed issues, features, and changed behaviors that were released in 10.2 HotFix 3.
- Some fixed issues, features, and changed behaviors that were released in EBFs on any version.

The issues that were not integrated into this release are documented as known limitations. See "Known Limitations" on page 29.

Important: All future HotFix or Emergency Bug Fix releases require that at least version 10.3 is installed.

Installation and Upgrade

Multidomain MDM has some known limitations related to installing and upgrading the product. Before you begin, review these issues.

Dropped Support

Effective in version 10.3 HotFix 1, support is dropped for the following application server versions:

Red Hat JBoss Enterprise Application Platform versions earlier than 7.1

Multidomain MDM 10.3 HotFix 1 does not support JBoss EAP versions earlier than 7.1. The end of maintenance support by Red Hat for JBoss EAP 6.x is June 2019. Informatica recommends that you upgrade to JBoss EAP 7.1 and Multidomain MDM 10.3 HotFix 1 for continued support, bug fixes, and security patches from Red Hat.

IBM WebSphere versions earlier than 9.0 Fix Pack 10

Multidomain MDM 10.3 HotFix 1 does not support WebSphere versions earlier than 9.0 Fix Pack 10. You must deploy Multidomain MDM on IBM WebSphere Application Server Version 9.0 Fix Pack 10.

Before You Install or Upgrade

Some known limitations can affect your install or upgrade experience. To avoid potential issues, ensure that you review the following issues and complete any workarounds before you upgrade. Then review the environment-specific installation and upgrade issues.

Install Java Development Kit

If you use Oracle Java runtime environment (JRE), install JRE 1.8, update 144 or later on the machines on which you want to launch the Hub Console. JRE 1.8, update 144 or later is required for the Batch Viewer in the Hub Console.

If you use Red Hat OpenJDK 8, install the IcedTea-Web Java Web Start implementation on the client machines on which you want to launch the Hub Console. Red Hat OpenJDK 8 does not automatically install a Java Web Start implementation, which is required to launch the Hub Console.

Tip: When you use IcedTea-Web Java Web Start, the time taken for the Hub Console to launch increases over time. To improve performance, periodically clear the cache by running the following command: `javaws -Xclearcache`.

(MDM-18910, MDM-24133)

Update Subject Area Names Before You Upgrade

Verify that no subject area name begins with a number. If any subject area name begins with a number, change the name so that it begins with an alphabetic character. If a subject area name begins with a number, the business entity configuration generated by the MDM Hub causes Repository Manager validation errors. If you do not generate a business entity configuration, you can continue to use subject area names that begin with a number. (HORA-51906)

Hub Server Installation in Non-English Environments

When you install the MDM Hub in a language other than English, and you use JDK 1.8 or later, the Hub Server installer fails to launch.

Workaround: To launch the installer, open a command prompt, navigate to the Hub Server installation directory, and enter the following command:

```
hub_install.exe -l <language code>
```

Where <language code> is your preferred language. Use the language code for one of the following languages:

Language	Language Code
Brazilian Portuguese	pt_BR
French	fr
German	de
Japanese	ja

Language	Language Code
Korean	ko
Russian	ru
Simplified Chinese	zh_CN
Spanish	es

(MDM-14224)

Hub Server Installation Without Prerequisites Validation

When you run the Hub Server installer without the prerequisites validation, the database password prompt requires a dummy value.

1. To start the Hub Server installer without the prerequisites validation, run the following command:

    `hub_install.bin -DSIPERIAN_INSTALL_PREREQ_VALIDATION=false`
2. When prompted for the database password, enter a dummy value.

    The installation continues. If you do not specify a dummy value, the installation fails. (MDM-10975)

Upgrade Installation for Entity 360 View

When you upgrade Hub Server, the `entity360view.ear` sometimes fails to install due to a timed out error.

Workaround: You can run the installation components `patchInstallSetup` or `postInstallSetup` again.

Alternatively, run the following command from the `<MDM Hub installation directory>/hub/server/bin` folder:

`./sip_ant.sh -Dentity360view.ear.dodeploy=true deploy.entity360view-ear`

(HORA-52008)

Apple Single Sign-On is Not Supported

Informatica Data Director does not work with Apple SSO in this version of Informatica MDM Multidomain Edition. (MDM-6906)

IBM Environments

The following issues affect Multidomain MDM when installed with IBM AIX, IBM DB2, or IBM WebSphere.

Installing MDM Multidomain Edition in a JBoss Environment on the IBM AIX Operating System

There are multiple issues with Red Hat JBoss EAP 7.1 running on the IBM AIX operating system, because Red Hat does not support the configuration. To see the JBoss EAP 7.1 configurations supported by Red Hat, visit https://access.redhat.com/articles/2026253.

The following known issues are logged for Multidomain MDM in a JBoss and AIX environment:

- MDM-16939. When the posinstallSetup script is run as part of Hub Server installation or after the installation, `uiwebapp-ear.ear` does not deploy. Contact Informatica Global Customer Support for the workaround.
- MDM-23460. When you use the ActiveVOS workflow, task approvals fail. No known workaround.
- MDM-23416. When you create records, an error is generated: `SIP-09051: XML parsing problem for input source (unknown systemId). Premature end of file.`

  No known workaround.

Informatica will try to address these issues in future releases, but cannot guarantee that all issues will be resolved. You are strongly recommended to avoid this combination of application server and operating system for your Multidomain MDM environment.

Hub Server Upgrade from Version 10.1 HotFix 2 in IBM AIX Environments

When you upgrade the Hub Server from version 10.1 HotFix 2 on IBM AIX environments, the entity360view.ear file fails to deploy.

Workaround: Manually run the patchInstallSetup.sh script. For more information about running the script, see the *Multidomain MDM Upgrade Guide*.

(MDM-14777)

Embedded ActiveVOS Upgrade in IBM DB2 Environments

In IBM DB2 environments, before you upgrade, add the ActiveVOS database connection properties to the `build.properties` file in `<MDM Hub installation directory>/hub/server/bin`.

The following sample shows the ActiveVOS database connection properties with sample entries:

```
activevos.db.type=db2
activevos.db.server=localhost
activevos.db.port=50000
activevos.db.user=AVOS
activevos.db.dbname=INFA102
activevos.db.schemaname=AVOS
activevos.db.jdbc.url=jdbc:db2://localhost:50000/INFA102
activevos.b4p.url=http://localhost:9080/active-bpel/services/AeB4PTaskClient-
taskOperations
```

(MDM-13104)

Enable Match Population On IBM DB2

After you install the Process Server in an IBM DB2 environment, you must enable the match population to use for the match rules. To enable match populations, contact Informatica Global Customer Support. (HORA-52288)

Upgrade in WebSphere IBM DB2 Environments Running Java 8

After you upgrade the MDM Hub in WebSphere IBM DB2 environments running Java 8, the Hub Console does not launch.

Workaround: Use Java 7 on the client machines.

(MDM-12036)

ActiveVOS Installation in WebSphere Cluster Environments

When you install embedded ActiveVOS in a WebSphere cluster environment, you cannot connect to the MDM identity service provider in the ActiveVOS Console.

Workaround: Perform the following steps after you install the Hub Server, embedded ActiveVOS, and the Process Server:

1. In the ActiveVOS `install.properties` file set `install.web.application` to `false`.

2. In the `deployer.xml` file in the ActiveVOS installation directory, comment out the following code:

```
<!-- <target name="deploy.resources"
depends="deploy.timer.manager,deploy.work.manager"/>
<target name="deploy.timer.manager">
<echo message="$
{basedir}"/>

<run.wsadmin script="${basedir}
/scripts/timermanager.jacl"/>
</target>
<target name="deploy.work.manager">
<run.wsadmin script="$
{basedir}/scripts/workmanager.jacl"/>

<run.wsadmin script="${basedir}
/scripts/systemworkmanager.jacl"/>
</target>
<target name="deploy.jaas">
<run.wsadmin script="$
{basedir}/scripts/jaaslogin.jacl"/>

</target>

<target name="deploy.apps">

<run.wsadmin script="${basedir}
/scripts/installapp.jacl"/>
</target> -->
```

3. In the `<MDM installation directory>/hub/server/bin` directory, run the following commands:

```
sip_ant.bat deploy_mdm_identity_resolution
sip_ant.bat deploy_avos_server
```

4. Deploy the ActiveVOS EAR files. For information about deploying EAR files, see the *Multidomain MDM Installation Guide*.

(MDM-13269)

Process Server Installation on WebSphere in a Linux Environment

When you deploy the Process Server EAR files, the following error can occur:

```
Too many open files. Unable to start cleanse ear.
```

Workaround: Increase the value of the ulimit parameter in Linux.

(MDM-13618)

Process Server Installation and Upgrade

If you install or upgrade the MDM Multidomain Edition for IBM DB2 on WebSphere in a Linux environment, the `postInstallSetup` script might fail with the `javax.management.MBeanException` error.

Perform the following tasks when the `postInstallSetup` script fails:

▶ Stop and start WebSphere.

The Process Server starts up.

(MDM-10850)

Oracle Environments

The following issues affect Multidomain MDM when installed with Oracle database or Oracle WebLogic.

Disable WebLogic Server Authentication

The MDM Hub uses HTTP basic authentication for which you must disable WebLogic Server authentication. To disable WebLogic Server authentication, edit the `config.xml` file.

1. Navigate to the following WebLogic directory:

        <WebLogic installation directory>/user_projects/domains/<user domain>/config

2. Open the `config.xml` file in a text editor.

3. Add the following element within the <security-configuration> element:

        <enforce-valid-basic-auth-credentials>
            false
        </enforce-valid-basic-auth-credentials>

Hub Server Installation in Console Mode in Oracle Environments

When you install the Hub Server in console mode in an Oracle environment, the pre-installation summary has missing details. If you choose not to install Informatica Platform, a blank appears instead of the word "No" under the Install Informatica Platform heading of the summary. (HORA-51944)

Upgrade from Version 9.5.1 in Oracle Environments

When you upgrade the Hub Server from version 9.5.1 in an Oracle environment, the upgrade completes successfully, but the following error appears in the log:

19:26:22,012 INFO ImporterRole:44 - ddl: CREATE ROLE PROXY_ROLE ORA-01031: privileges insufficient

You can safely ignore this error. (HORA-51980)

Hub Server Upgrade from Version 9.7.1 in Oracle and JBoss Environments

When you upgrade from version 9.7.1, the upgrade fails during the creation of a data source for ActiveVOS.

Workaround: Open the `<JBoss installation directory>/standalone/configuration/standalone-full.xml` file and enter comments around the lines of code that specify the ActiveVOS data source and JDBC driver. (MDM-8616)

Oracle WebLogic 12.2.1.3

When you use Oracle WebLogic version 12.2.1.3 with Multidomain MDM version 10.3, the following additional steps are required to address some known limitations.

Apply a patch to WebLogic 12.2.1.3

Ensure that your WebLogic 12.2.1.3 environment includes the following patch: `p26923558_122130_Generic.zip` (MDM-18967)

Configure the Java Virtual Machines for WebLogic 12.2.1.3

To configure a Java Virtual Machine (JVM), set the Java options by using the `JAVA_OPTIONS` environment variable.

You can set the Java options in the following file:

On **UNIX**. `<WebLogic domain>/bin/setDomainEnv.sh`

On **Windows**. `<WebLogic domain>\bin\setDomainEnv.cmd`

The following table describes the Java options:

Java Options	Description
-Djavax.wsdl.factory.WSDLFactory	Required to invoke a service WSDL that might have a default namespace prefix. Set to the following value: `com.ibm.wsdl.factory.WSDLFactoryImpl`
-DANTLR_USE_DIRECT_CLASS_LOADING	Required to launch the WebLogic Server on which the MDM Hub is deployed. Set to `true`.

Update the Hub Server build properties

Edit the Hub Server build.properties file to set the following property:

```
weblogic.version=10.x
```

(MDM-22366)

Deploy the Resource Kit .ear files

If you install the Resource Kit, the .ear files are not deployed automatically. You need to edit the classpath in the sip_ant script, run the post installation script, and deploy the .ear files from the WebLogic Administration Console.

Note: The following example procedure refers to .sh files and uses the syntax for a UNIX system.

1. If the post installation fails, navigate to the following directory:
    `<MDM Hub installation directory>/hub/server/resourcekit/bin`

2. Open the `sip_ant.sh` file.

3. Find the following text and delete `$WLS_CLASSPATH`:

    ```
    $JAVA_HOME/jre/bin/java \
    $USER_INSTALL_PROP \
    -Xmx512m -classpath \
    $SIP_HOME/deploy/lib/ant.jar:$SIP_HOME/deploy/lib/ant-launcher.jar:$SIP_HOME/
    ```

```
deploy/lib/ant-nodeps.jar:$WLS_CLASSPATH
\
org.apache.tools.ant.Main \
$PARAM
```

4. Save the file.

5. Run `./postinstall.sh -Dweblogic.password=<password>`.
    The process saves the generated .ear files in the following location: `<MDM Hub installation directory>/hub/serverresourcekit/bin/deploy/deployed_ears`.

6. Open the WebLogic Administration Console and deploy the generated .ear files.

(MDM-22847)

Hub Server Post-Installation Task on WebLogic Clusters

If you install the Hub Server on a WebLogic cluster environment with deployments only on Managed Servers, manually create datasources after the installation. (MDM-10636)

Run the PostInstallSetup Script in Non-English Oracle and JBoss Environments

When you install in a locale other than English in an Oracle and JBoss environment, the `postInstallSetup` script does not run during the installation process.

Workaround: Run the `postInstallSetup` script after the installation to deploy the EAR files. For more information, see the *Multidomain MDM Installation Guide*. (MDM-8731)

JBoss Environments

The following issues affect Multidomain MDM when installed with JBoss and any database environment.

Hub Server Installation in JBoss Environments

When you deploy the Hub Server EAR files in a JBoss environment, the deployment might fail with the exception `concurrent.RejectedExecutionException`.

Workaround: Increase the length of the task queue in the `standalone-full.xml` file. The following sample shows the `queue-length count` parameter to modify:

```
<long-running-threads>
  <core-threads count="50"/>
  <queue-length count="300"/>
  <max-threads count="50"/>
  <keepalive-time time="10" unit="seconds"/>
</long-running-threads>
```

(MDM-13340)

Registering an Operational Reference Store on JBoss Clusters

In a JBoss cluster environment, to be able to register Operational Reference Stores, configure the `<datasources>` definition in the `standalone-full.xml` file.

1. Open the `standalone-full.xml` file, which is in the following directory:

    ```
    <JBoss Installation Directory>/standalone/configuration
    ```

2. Configure the `<datasources>` definition and save the changes.

(MDM-10952)

Deploying the Data Director Applications on JBoss EAP 7.1

After you install or upgrade the MDM Hub in the JBoss EAP 7.1 environment, the deployment status of applications might appear as failed in the Data Director Configuration Manager.

Use the Repository Manager tool in the Hub Console to ensure that all the Operational Reference Stores are validated. After the validation, use the Data Director Configuration Manager to redeploy the applications.

(MDM-24559, MDM-24415)

HP-UX, Linux, and Solaris Environments

The following issues affect Multidomain MDM when installed on the HP-UX, Linux, or Solaris operating systems.

Informatica Platform support in Solaris and HP-UX Environments

You cannot use MDM Multidomain Edition with Informatica platform in Solaris and HP-UX environments. (MDM-14971)

Hub Server Installation on HP-UX

When you install the Hub Server in an HP-UX environment, the `postInstallSetup` script fails.

Workaround: After the installation fails, run the postinstallsetup script manually. Alternatively, when prompted to run the postinstallsetup script during the installation process, choose to run the `postInstallSetup` script later. Later, run the postinstallsetup script manually. (MDM-11092)

Resource Kit Installation in Silent Mode

A silent installation of the Resource Kit fails in a Linux environment.

Workaround: Install the Resource Kit in graphical mode or console mode. (MDM-10803)

After You Install or Upgrade

Some known limitations can affect your install or upgrade experience. To avoid potential issues, ensure that you review the following issues and complete any workarounds after you upgrade.

Upgrading the Operational Reference Store

When you upgrade the Operational Reference Store, the upgrade is successful but the following error appears in the sip_ant log:

```
    [exec] CREATE SEQUENCE "C_REPOS_ZDT_EVENT_SEQ" MINVALUE 1 MAXVALUE 99999999999999
        INCREMENT BY 1 START WITH 1 CACHE 20 NOORDER CYCLE
    [exec] *
    [exec] ERROR at line 1:
    [exec] ORA-00955: name is already used by an existing object
    [exec]
```

Workaround: You can safely ignore the error.

(MDM-14070)

Change List Promotion

To promote a change list to an empty Operational Reference Store, the match column length that the MDM Hub adds to the external match input table must not exceed 4000. The match column length is the sum of the lengths of all base object columns that are sources of the match column and the number of source columns.

The change list promotion fails with the following error if the total length of the match column is greater than 4000:

```
ORA-00910: specified length too long for its datatype
```

(HORA-52116)

Updating a Localized Schema

If the pre-upgrade schema includes localized lookup tables, you might see validation errors after you upgrade.

For lookup tables that were localized in version 10.2.x, the metatdata validation process generates the following types of errors:

```
SIP-MV-22000 The name attribute for DB bundle [<lookup table name>.dbBundleMapping]
is not defined in the configuration
```

Workaround:

1. Download the `dbBundleConfig.xml` file from the C_REPOS_CO_CS_CONFIG repository table.

2. In the `dbBundleConfig.xml` file, and copy the `name=<lookup table name>` parameter from the `bundle` element to the `mapping` element.
    For example, the following snippet shows the edited `mapping` elements:

    ```
    <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
    <dbBundleConfiguration xmlns="http://www.example.com/mdm/db-bundle-configuration">
    <bundle name="LUCountry" hubObject="C_LU_COUNTRY_LCL">
    <mapping name="LUCountry" keyColumn="COUNTRY_CD" countryColumn="COUNTRY_CODE"
    languageColumn="LANGUAGE_CODE" valueColumn="LOCALIZED_STRING"/>
    </bundle>
    <bundle name="LUState" hubObject="C_LU_STATE_LCL">
    <mapping name="LUState" keyColumn="STATE_CD" countryColumn="COUNTRY_CODE"
    languageColumn="LANGUAGE_CODE" valueColumn="LOCALIZED_STRING"/>
    </bundle>
    <bundle name="LUCountry.LUState" hubObject="C_LU_STATE_LCL">
    <mapping name="LUCountry.LUState" keyColumn="STATE_CD"
    countryColumn="COUNTRY_CODE" languageColumn="LANGUAGE_CODE"
    valueColumn="LOCALIZED_STRING"/>
    </bundle>
    </dbBundleConfiguration>
    ```

3. Upload the edited `dbBundleConfig.xml` file to the C_REPOS_CO_CS_CONFIG repository table.

4. Run the metadata validation.

(MDM-21752)

Multidomain MDM Hosted on Amazon Web Services

If Informatica Cloud Hosting Services manages your instance of Multidomain MDM on Amazon Web Services (AWS), ensure that you review the following issue.

ActiveVOS MultiTenant Mode (MDM Multidomain Edition on Amazon Web Services)

When Informatica Cloud Hosting Services manages your instance of MDM Multidomain Edition on AWS, the URLs include a customer identifier. ActiveVOS multitenant feature has a limitation with respect to the URL change.

Workaround: Use the BE ActiveVOS worfklow adapter and add users to the TenantGroup role.

(MDM-15600)

Multidomain MDM Version 10.3 HotFix 1

Fixed Limitations

MDM Hub Fixed Limitations

The following table describes fixed limitations:

Reference Number	Description
MDM-24742	After a record in the deleted state is update by a POST REST API request, the hub state indicator remains as -1.
MDM-24396	When you use the Compare Floats cleanse function under the Logic Functions category to test BigDecimal values, the test fails with the following exception: `java.lang.ClassCastException: java.math.BigDecimal cannot be cast to java.lang.Double`
MDM-24262	When a record is updated through a Load batch job and the incoming state is deleted, the existing state of all the cross-reference records does not change to deleted.
MDM-24182 MDM-21143	After you upgrade, the metadata validation of the Operational Reference Store (ORS) fails with a null pointer exception.
MDM-24053	Prevent possible SQL injection in the Support tool.
MDM-23895	Even though the `cmx.server.datalayer.cleanse.working_files` property is set to `FALSE`, the temporary files (`*.dat`) created during cleanse jobs are not deleted. This results in excessive file system disk space usage.
MDM-23858 MDM-9293	The fuzzy search operations consider the `GETLISTLimit` property but ignore the `cmx.server.match.max_return_records_searcher` property to limit the number of records that are returned.

Reference Number	Description
MDM-23855	When you use a change list to import data and promote changes to hierarchies, the import and promote operations fail.
MDM-23834	When filtered match rules are used for a base object, match jobs fail.
MDM-23368	If a load balancer is used in a multi-node Multidomain MDM environment, the Hub Console fails to launch.
MDM-23317 MDM-18807	Fixed a security issue.
MDM-23316 MDM-16183	When you run an external match on IBM DB2, the process creates a temporary table on the schema and generates the following error: `SIP-16107: SQL Exception. Error was: DB2 SQL Error: SQLCODE=-552, SQLSTATE=42502, SQLERRMC=PMDMWAS;IMPLICIT CREATE SCHEMA, DRIVER=3.69.49 CREATE TABLE SESSION.T$MA_6061757004406685149088310 AS`
MDM-23308 MDM-21096	In an IBM DB2 environment, when you enable the Hierarchy Manager, the creation of the hierarchy entity objects fails with a DB2 error.
MDM-23295 MDM-20337	When you use the MdmKeyStore class, a file descriptor leak causes FileNotFoundException errors.
MDM-23294 MDM-22245	When the Exact Match column contains the pipe symbol, an error occurs when you view potential matches for the record in Data Director.
MDM-23271 MDM-17191	After the automation tool is finished running, the tool retains a write lock on the schema.
MDM-23249 MDM-12455	After unmerging merged records and recalculating the best version of the truth, the Last Update Date is not updated at the base object level.
MDM-23100 MDM-6419	After you use the Hub Console to run a batch group that contains load jobs, the logs do not identify the load jobs that were run. In the Control & Logs panel, the Job Name column of the logs contain information other than the load job names.
MDM-23081 MDM-17047	Forward matching records are created during the Automerge process, which can cause the process to run slowly.
MDM-23073 MDM-19485	When you promote changes in the Hub Console, the promote process is slower than expected.
MDM-23056	After upgrading from version 10.1, the metadata validation of the ORS fails with the following error: `SIP-MV-18001 - Business Entity does not exist.`
MDM-23069 MDM-22098	Matched table entries where rowid_object=rowid_object_matched are not deleted, which causes errors when an automerge job is attempted on the matched records.
MDM-22964 MDM-17673	When you use the createUsers script, you experience performance issues.

Reference Number	Description
MDM-22846	When you use the Data Encryption utility in the Resource Kit to encrypt a file with long text, the output file contains two lines of encrypted text instead of one.
MDM-22255	When a message trigger is enabled for the Delete base object data event and the Delete XREF data event on child tables, during a soft delete batch load operation, messages are not generated. Unable to reproduce this known limitation in this release.
MDM-21894 MDM-21426 MDM-16147	When you have Auto and Manual match rules, if the data matches both types of rules, the Match table contains duplicate entries.
MDM-21644 MDM-17191	After the automation tool is finished running, the tool retains a write lock on the schema.
MDM-21437 MDM-15955	After you select a record as not a match in Data Director, when you run the Auto Match and Merge job with the **Accept All Unmatched Rows as Unique** option, the record that you marked as not a match has a consolidation indicator of 2 instead of 1.
MDM-21436 MDM-15987	For custom queries, after you run a Load job with the **Force Update** option and a Revalidate job, the validation rule does not execute correctly.
MDM-21431 MDM-16413	If you run a Multi Merge job on records where the trust has been downgraded for a field, and then you unmerge the resulting XREF record, the HIST table can contain a value for the field that is not present in the XREF record.
MDM-21351 MDM-21164	When you run CreateUsers.cmd with a user name in mixed case, the user is stored in mixed case instead of lowercase.
MDM-21178 MDM-16063	If a custom query contains many joins and filters, when you open the Packages tool, the Hub Console becomes unresponsive.

MDM-21008
MDM-16451
	In an IBM DB2 database environment, if you modify a base object in the database, and then try to add a new column through the Hub Console, the following error occurs:
	
	```SIP-10313: Exception while executing change list:```
	```SIP-09089: Error in SQL update: DB2 SQL Error:```
	```SQLCODE=-20211, SQLSTATE=428FJ, SQLERRMC=null,```
	```DRIVER=3.69.24. DB2 SQL Error: SQLCODE=-20211,```
	```SQLSTATE=428FJ, SQLERRMC=null, DRIVER=3.69.24```

MDM-20892 MDM-19837	After you set the password policy and enable the Restrict password reuse limit option, when you add a new user, the following error occurs: ```SIP-10318: Cannot manage password history due to data access error.``` Unable to reproduce this known limitation in this release.
MDM-20062	After a match job, if you delete records that matched, the records are not deleted from the match table. When an Automerge job is run, the active records merge with the deleted records.
MDM-19652	After you unmerge a record that has more than two cross-reference records associated with it, only one of the cross-reference records reflect the correct last updated date.

Reference Number	Description
MDM-19610 MDM-17362	The Stage job rejects some records with the following error: `SIP-11083: Cannot load class.`
MDM-19004 MDM-17064	The automation properties file in the Resource Kit does not contain the property to configure a user email address, which is required to create a user.
MDM-18455 MDM-17622	The titles of unmerge tasks that are created in Data Director are saved as {$title} in the aeb4ptask table of the ActiveVOS schema.
MDM-18353 MDM-16938	When you have multiple Operational Reference Stores, the post-load user exit processes fail on some of the Operational Reference Stores.
MDM-17438	A user with read only access can claim tasks.
MDM-16675	If you use an API call to return ActiveVOS tasks for a user, the call fails if you specify the createDateBefore or createDateAfter filters.
MDM-7786	After adding a new role to a user, the Operational Reference Store is marked as invalid.

Data Director Fixed Limitations

The following table describes fixed limitations:

Reference Number	Description
MDM-24693	In multi-node clustered environments, logging in to a Data Director application might fail because of session management replication issues.
MDM-24460	You cannot log in to Data Director using Okta single sign-on.
MDM-24114 MDM-24033	When you launch a Data Director application in Chrome, if the field values of a record are long, the values overlap adjacent fields.
MDM-24011	If your user password contains spaces, you cannot log in to Data Director.
MDM-23346	An LDAP user that is not registered in the MDM Hub cannot log in to Data Director.
MDM-23115	If the first name and last name of a user registered in the Hub Console is in Japanese, the user cannot log in to Data Director.
MDM-21672 MDM-21974 MDM-21826	In a hosted MDM environment, when you log out of Data Director, clear the browser cache, and then refresh the tab where you logged out, a 404 error occurs.
MDM-21390 MDM-16226	If you change your password and then run a newly claimed unmerge task, the unmerge process does not run on the records, but an interface message says that the unmerge is successful.

Reference Number	Description
MDM-21388 MDM-15945	In the task inbox on the **Home** page, you cannot filter tasks by the creation date.
MDM-19053 MDM-16775	If you use Apache HTTP Server, Data Director applications take a long time to load.
MDM-18712 MDM-17065	The export of search results fails.

Data Director with Business Entities (E360) Fixed Limitations

The entity views are based on business entities. To use these views, upgrade Data Director applications from subject areas to business entities.

The following table describes fixed limitations:

Reference Number	Description
MDM-24394	When a cleanse transformation is used with a business entity view to business entity transformation, the following issues occur: - After you create records, the records fail to appear in the business entity view. - You cannot open records from query results.
MDM-24283	The record views that are configured for specific user roles cannot be accessed by LDAP users with the same roles.
MDM-24205	When a child record with a one-to-many relationship in the parent business entity has a one-to-one relationship in a business entity view, the record does not appear in the **Business Entity** view. The same record appears in a **Record Preview** page that you open from the **Search Results** page.
MDM-23927	The Related Records component that lists related records does not honor the direction of the relationship between records. The issue occurs only with record view layouts that use the Related Records (View Mode) component. To fix the issue, the component and it's properties were updated in the Provisioning tool. For more information, see the *Release Guide* and the *Provisioning Tool Guide* for the release.
MDM-23776	After tasks are added, the task count in the Task Manager does not refresh automatically.
MDM-23763	In the Business Entity view, the vertical scroll bar for the quick scroll panel does not align correctly.
MDM-23762	When you create a record and click **Save** multiple times, the **Task Comment and Attachments** dialog box appears for each click.
MDM-23708	In the **Matching Records** view, when you identify duplicate records that you want to merge with the target record, the following error might be generated: `java.math.BigDecimal cannot be cast to java.lang.String`

Reference Number	Description
MDM-23677 MDM-23676	When you open a merge task, the performance is slower than expected.
MDM-23542	When you attach a file to a task, if the file name contains non-Latin characters, the file name is modified and the file cannot be downloaded.
MDM-23530	The documents attached to a record in the Business Entity view are not visible when tasks related to the record are opened in the Task Manager.
MDM-23500	When external calls are configured with localized messages for the Data Director application, the localized messages do not appear.
MDM-23456	In the basic **Matching Records** view, columns such as **Merge Preview** might not be aligned correctly.
MDM-23455	When you use a search query to find records, the query results do not include the values of dependent lookup fields.
MDM-23417	When you customize the search results using the **Customize Search Columns** dialog box, tool tips for the **Add all** and **Remove all** icons do not disappear after the click.
MDM-23369	In the task inbox, the Creation Date filter works only for a specific date.
MDM-23350	In the localized applications, the **Overdue** option of the task inbox **Due Date** filter does not appear in the localized language.
MDM-23408	If a cleanse transformation is used with a view to business entity transformation, updates to records might generate a validation error.
MDM-23333	When you edit and save a record that contains Unicode characters, the Unicode characters are corrupted.
MDM-23322 MDM-23072 MDM-22479 MDM-16936 MDM-17169	In the Business Entity view, long names are not formatted correctly as the label for the record.
MDM-23318 MDM-18622	Multibyte localization data does not appear correctly as field labels.
MDM-23310 MDM-20887	When you make a Cleanse SIF request, the Informatica Data Quality cleanse function does not return values.
MDM-23282 MDM-20677	In the Related Records component, the record count is incorrect.
MDM-23261	The search and queries results do not show lookup values when the foreign key is set to ROWID_OBJECT.
MDM-23260	In the Hierarchy view, when you click **Add to Canvas**, the dialog box that opens is small and not user-friendly for viewing the search results.

Reference Number	Description
MDM-23259	In the Task Manager, when you claim a task from the task panel, the panel does not automatically change to My Open Tasks.
MDM-23245	When the search results contain records with integer and date fields, sorting on these fields is incorrect. Instead of numeric or date sorting, string sorting is applied.
MDM-23244	When the search results page has a vertical scroll bar, you must scroll to the right to use the **Show preview** and **Open in a new window** icons.
MDM-23222 MDM-23034	With Internet Explorer, when you create a new record, the icons for the child entity are not visible. This issue can not be reproduced in this release.
MDM-23217	When you use the **Form** view to add or edit a child record, the data is not cleansed and standardized.
MDM-23216 MDM-23211	The **Cross-reference Records** view has redundant blank spaces and a horizontal scroll bar.
MDM-23215	In the Business Entity view, when you select an item on the quick scroll pane, all the items scroll off the screen.
MDM-23214 MDM-22941	Even though a default image is configured for the image field of a view, the default image does not appear when an image is not attached.
MDM-23212	In the child record sections of the Business Entity view, the filter icon appears even though the sections have no records.
MDM-23201	The task inbox has unnecessary horizontal scrolling.
MDM-23184 MDM-16753	When you configure an application so that only some business entities are visible, all business entities appear in the Search box in the application header.
MDM-23177 MDM-20889	Fixed a security issue.
MDM-23156	When multiple levels of dependent lookup fields exist, the second and later levels of the lookup fields display all the items instead of displaying the items associated with the selected lookup field.
MDM-23143	When lookup fields are configured as searchable, with ROWID_OBJECT as the display field, when you select the fields, the Search Results page does not appear.
MDM-23134	When smart search is enabled and the search results views are configured for an application, search results are not displayed for the Related Records component. The issue occurs only with the Related Records (View Mode) component.
MDM-22966	In the **Matching Records** view, after you click **Merge**, the button is not disabled. You can click **Merge** again and a new merge process is initiated.
MDM-22947	When the Home page displays the list of available tasks in the task inbox, you need to horizontally scroll through the task inbox to view all the details of a task.

Reference Number	Description
MDM-22940	The review panel of the Task Manager has multiple vertical scroll bars.
MDM-22928	The History view has extra space around the page.
MDM-22833	In the advanced **Matching Records** view, when you open a calendar, the calendar might hide the date field associated with it.
MDM-22776	When the language of the user interface is French, the **Compare** button in the **Similar Records** component is misaligned.
MDM-22772	In the **Task Manager**, the **Search** box for tasks does not display the complete field input hint.
MDM-22759	When the user interface is set to some localized languages and you set a query as the default query, the `bad layout` error is generated.
MDM-22757	In some of the localized languages of the user interface, when you try to view the history of a record in the Hierarchy view, the layout of the user interface is messed up.
MDM-22753	In the localized versions of the application, some user interface elements of the task inbox are not localized.
MDM-22738	In the **Cross-reference Records** view, users that do not have the privileges to view the cross-reference records of specific business entities, can view the associated child records in the navigation tree.
MDM-22329	The dependent lookup fields of child records do not display correct values in the value list.
MDM-21229	Verbose error message could potentially leak information.
MDM-20057	In the **History** view, the record events that you select are not highlighted.
MDM-18817 MDM-17865	The **Cross Reference** page and the **Merge Preview** page have pagination issues.
MDM-18597 MDM-17509	When a user role does not include the create and read privileges for a business entity, users with this role can still view the tasks associated with the business entity.
MDM-18009 MDM-16713	If there are many comments associated with a task, the following error might occur: `Comments cannot exceed more than 3968 characters.`
MDM-16846	In the Business Entity view, child record fields are not aligned.
MDM-15299	If you do not enable validation for a record though a validation check can be performed, the validation status is not set to null.
MDM-15172	In the Business Entity view, the first record of each child node is highlighted.

Reference Number	Description
MDM-15077	When character data is entered in a numeric field, the following misleading error message appears: `Enter a Valid Pattern.`
MDM-4710	In the **Business Entity** view, when you add data to a business entity and then click **Apply**, the Hub Server does not clean and correctly format the data. Workaround: For your data to appear in the correct format in Business Entity view, click the **Save** button.

Data Director with Subject Areas Fixed Limitations

The legacy views are based on subject areas.

The following table describes fixed limitations:

Reference Number	Description
MDM-24491	When you approve tasks, you cannot attach files that have file names with special characters, such as `%`.
MDM-24443	The promotion of a change list with the Data Director configuration fails.
MDM-24403 MDM-23973	You cannot delete a child subject area record and send it for approval.
MDM-24349 MDM-24062	When you open tasks, the following error might be generated: `java.math.BigDecimal cannot be cast to java.lang.String`
MDM-24333	When a record is opened in the Effective Periods View, tool tips for the timeline events do not show the configured timeline granularity.
MDM-24263	When you create and save a basic query at the subject area group level and include relationship base object columns, an error occurs.
MDM-24150	When you create a record or a query, the dependent lookup fields do not show correct values.
MDM-24142	After records are merged, the UPDATED_BY column of the base object and the cross-reference record is null.
MDM-24111	When you customize the query results to view specific fields, the customization is not preserved when you navigate away from the results page.
MDM-24083 MDM-23219 MDM-23218	After you upgrade, the business entity schema generation might fail in the following scenarios: - If a subject area has duplicate default values and different roles configured, the business entity schema generation fails with the following error: `ERROR||Validation failed for some objects in the object tree|The bddApplication name must be set.` - If subject areas have default values set to null or empty strings, the business entity schema generation fails with a null pointer exception.

Reference Number	Description
MDM-24048	When you view the history of a record, the history of child records does not appear.
MDM-23983	When you open a record in the **XREF** view and click the **Details** tab to view child record data, an error occurs.
MDM-23918 MDM-23590	Even though the timeline granularity is set to seconds, you cannot open a record that is effective up to a specific time in seconds, because the **Open for Effective Date** dialog box does not allow you to specify time in seconds.
MDM-23916	The task inbox does not display the task details icons beside the tasks.
MDM-23798	The Hierarchy view takes a long time to display the history of records that have many relationships.
MDM-23653	When you export the results of a query, the values of lookup columns that are not marked as lookups in a timeline enabled base object are not exported.
MDM-23640	When a timeline enabled base object has lookup columns that are not marked as lookups, the Cross-reference Records view generates the following error: `SIP-10228: No record found for the specified RecordKey.`
MDM-23639	When a timeline enabled base object has lookup columns that are not marked as lookups, in the History view, you cannot view the cross-reference change details and the base object change details for events. An error occurs.
MDM-23617 MDM-23586	When subject areas and lookup tables have the same names, the business entity schemas are not generated correctly. The issue occurs even though the names have different character cases.
MDM-23610	When the number 0 is stored in the DB2 database with a scale of 3, such as 0.000, the scale is not preserved in the record views. The value appears as 0.
MDM-23580	When a timeline enabled base object has lookup columns that are not marked as lookups, a search for records based on lookups generates the following error: `SIP-14150: Data access failure in searchQuery. ORA-00918: column ambiguously defined.`
MDM-23495	When you use a profile to export search results for a specific effective period, the exported data is not for the same effective period.
MDM-23494	When you apply data masking on a column, the data is still visible on the History tab for base object change details and XREF change details.
MDM-23487	You cannot send a task for approval because the business entity schema is generated incorrectly.
MDM-23440	When the **Subject Areas** option is the only option in the **New** window, the **Subject Areas** option is not selected by default.
MDM-23343	The Expand and Collapse icons appear incorrectly for the logical subject area groups.
MDM-23325	The values of a dependent lookup with a subtype qualifier does not filter correctly.

Reference Number	Description
MDM-23319 MDM-17374	When you use data security filters without state management, you cannot open records.
MDM-23315 MDM-18399	When you add a hyperlink that contains the @ character, Data Director parses the text incorrectly and saves an incorrect hyperlink.
MDM-23314 MDM-19479	Fixed a security issue.
MDM-23313 MDM-20112	When you run a query that is case insensitive and then try to sort the records, an error occurs.
MDM-23311 MDM-20663	Task actions are disabled for users with uppercase user names.
MDM-23309 MDM-20388	When a package contains a join to a second package, a query on the first package fails.
MDM-23303 MDM-21428 MDM-5335	You can edit a child record and a grandchild record at the same time. If you apply the edit to the grandchild record, but cancel the edit for the child record, a NullPointerException is generated. Unable to reproduce this known limitation in this release.
MDM-23296 MDM-17378 MDM-21361	When you add values to dependent lookups that have no values and send the changes for approval, the approval task cannot be opened.
MDM-23220	Child records do not display in the History view. The following error is logged in the `cmxserver.log`: `SIP-14159 "Data access error when trying to process SEARCH QUERY REQUEST"`
MDM-23155 MDM-23919	You cannot import queries from versions prior to 10.3.
MDM-23153 MDM-20388	When a package contains a join to a second package, any query on the first package fails.
MDM-23152	Generating a business entity schema takes a long time.
MDM-23140	When HAProxy is used with Multidomain MDM, a search for records in Data Director fails and the Data Director Configuration Manager does not launch. The `502 bad Gateway` error occurs.

Reference Number	Description
MDM-23117	If a subject area has security filters that include colons (:) in the definition, the business entity configuration generated by the MDM Hub causes the Operational Reference Store (ORS) metadata validation to fail. The following error is generated: `SIP-MV-13042 Object name contains special characters.` After the fix, the colons in the security filter are replaced with underscores. For example, the security filter `URN:LSID:gsk.com/rd:list.DEX:582` is changed to `fv_URN_LSID_gsk_com_rd_list_DEX_582`.
MDM-23080 MDM-17575	The getChangedChildren API returns incorrect results at the grandchild level.
MDM-23077	Logical subject area groups with 2 levels do not work.
MDM-22990	After upgrading from version 10.1, when you use the Data Director Configuration Manager to generate the business entity schema, misleading warnings and information messages appear.
MDM-22169	When you validate applications in the Data Director Configuration Manager, if the validation messages run into multiple lines, the complete message is not visible.
MDM-23074 MDM-20106	Saved query columns use the package attribute for the column instead of the subject area attribute, which causes errors during search.
MDM-23068 MDM-15988	When you create a merge task and select a record to merge, the lower RowId Object value incorrectly appears in the Merge Preview.
MDM-22880 MDM-19581	After you open a task, you cannot see updated data.
MDM-22855 MDM-20359 MDM-23071	In the Hierarchy Manager, when you manage a relationship and try to enter a value in the cust col field, the value reverts back to the default value.
MDM-22781 MDM-18144	When you use the Hierarchy Manager to create an entity, the entity does not display in the canvas.
MDM-21793 MDM-21085	When you create a record, potential matches do not appear.
MDM-21427 MDM-17061	You can edit a child record and a grandchild record at the same time. If you apply the edit to the grandchild record, but cancel the edit for the child record, a NullPointerException is generated.
MDM-21421 MDM-18126	In an Oracle database environment, when you open the event details from the **History** view, the following error occurs: `ORA-01722: invalid number`
MDM-20729	In the task inbox, you cannot filter tasks by the creation date.

Reference Number	Description
MDM-19980 MDM-20524	In the **XREF** view, the search runs with administrator privileges instead of the logged in user privileges.
MDM-19956	Merge task actions are disabled for users with uppercase user names.
MDM-19608 MDM-17267	In all the data views, white space is not preserved in the data fields.
MDM-19421 MDM-18325	If you exceed the maximum length of a text field, no validation error is displayed. Unable to reproduce this known limitation in this release.
MDM-18854 MDM-16419	In the **History** view, when you try to view an event detail, an error might occur.
MDM-18680 MDM-15764	In applications with multiple subject areas, tasks assigned to a user do not appear in the task inbox. Unable to reproduce this known limitation in this release.
MDM-18632 MDM-16464 MDM-16240	When you run a search query with a specified effective date, the search results display incorrect values for records from a child subject area.
MDM-18483 MDM-16552	Users cannot open the tasks that are created by the secondary workflow engine.
MDM-18442 MDM-16527	When lookup columns from a child table are included in an advanced search query, the search result does not contain the values of the lookup field from the child table. Unable to reproduce this known limitation in this release.
MDM-18260 MDM-17386	After you create a record, you cannot edit or save the record.
MDM-18163 MDM-17508	You cannot use a custom profile or multithreading to export search results. Unable to reproduce this known limitation in this release.

Provisioning Tool Fixed Limitations

The following table describes fixed limitations:

Reference Number	Description
MDM-24323	If you modify any configuration using the Provisioning tool, the Elasticsearch indexes are deleted.
MDM-23927	The Related Records component that lists related records does not honor the direction of the relationship between records. The issue occurs only with record view layouts that use the Related Records (View Mode) component, which is configured using the Provisioning tool. To fix the issue new configuration properties have been introduced in the Provisioning tool.

Reference Number	Description
MDM-22754	In the localized versions of the Provisioning tool, some user interface elements are not localized.
MDM-22329	Field filters are not valid on dependent lookup fields.
MDM-20752	You cannot change the default calendar format used in the **History** view.

Search Fixed Limitations

Formerly called Smart Search, you can power the full-text search function with either Elasticsearch or Solr.

Search with Elasticsearch

The following table describes fixed limitations:

Reference Number	Description
MDM-24323 MDM-24297	If you modify any configuration using the Provisioning tool, the Elasticsearch indexes are deleted.
MDM-24312	When you run the Initially Index Smart Search Data job, the Elasticsearch indexes are deleted.
MDM-24135 MDM-24087	After applying a filter, the filter count for referenced columns is not updated.
MDM-23976 MDM-23931	When a parent business entity is also a one-to-one child of another business entity and both have some searchable fields in common, the Initially Index Smart Search Data job fails.
MDM-23835	When you use accented characters in the search string, records are not found.
MDM-23533	When a base object has a large number of root records, indexing lookup tables might generate an out of memory error.
MDM-23227	After you change the base object class code, search results display duplicate record entries.
MDM-23189	When more than 50 searchable fields are configured for a business entity, indexing fails.
MDM-23188	When you perform a search, the MDM Hub ignores common words such as "and", "an", and "is". These are stop words, which are not filtered out by the suggester.
MDM-23182 MDM-18540	If you make changes to a lookup for a record, reindexing for the record fails.
MDM-23093	When records contain dependent lookups, the load update process takes longer than expected to index the records.
MDM-22963	Duplicate records appear in the search results even after the duplicate records are merged.

The following table describes fixed limitations:

Reference Number	Description
MDM-23293 MDM-22230	When you have two process servers in a node with Smart search enabled, search fails with errors.
MDM-23185 MDM-16751	A smart search query that includes AND or OR in the search string fails.
MDM-19005 MDM-17370	When search is enabled, if you search for a record after merging some records, duplicate records might appear in the search results page.

API Services Fixed Limitations

The following table describes fixed limitations:

Reference Number	Description
MDM-24593	When a root record is updated by a business entity services call, field values from a child record with a low trust score can be the surviving record value.
MDM-24497	When a parent record that has multiple child record levels is unmerged, the records at the grandchild level are assigned an incorrect foreign key.
MDM-24474	In a WebSphere environment, the ReadBE business entity service generates the following error: `SIP-50101: You do not have the required privileges to view the business entity SupplierProductServices. To request additional role privileges, contact your MDM administrator.`

MDM-24473	In an IBM DB2 environment, the GetLookupValues SIF API generates the following error:
	`SIP-14129: The unique ID is not valid. The UID format must be "<table name>|<column name>".`
	`SIP-10323: There is no column with the name <Lookup column name>.`

MDM-24426	The Search Record REST API returns deleted child records.
MDM-24405 MDM-21634	A call to the Tokenize API fails with the following error: `SIP-16011: Failed to gather metadata`
MDM-23827 MDM-23771	Even though a POST request to the WriteBE business entity service updates a single child record or a parent record field, the lastUpdateDate value for the parent record and all the child records of a business entity are updated.
MDM-23500	When external calls are configured, validation messages do not appear in the localized languages.
MDM-23076 MDM-17834	Multithreaded SearchMatch API requests fail with errors.

Reference Number	Description
MDM-23067 MDM-16108	When you use the registerCustomTableObject SIF API to register custom jobs on staging tables, you cannot add or remove the jobs in the batch group.
MDM-22938	The `defaultPageSize` and `recordsToReturn` parameters do not work for the Search Record REST API.
MDM-22885 MDM-16249	When you use the Delete SIF API to delete a child record, the deleted child record incorrectly matches in a match job.
MDM-21398	By default, a Put or Cleanse Put call applies BVT calculations to all fields in a record instead of the fields specified in the SIF request.
MDM-21229	Verbose error message could potentially leak information.
MDM-23547 MDM-23156 MDM-22878	A second level dependent lookup ignores the parent dependency and returns all values.
MDM-23052 MDM-19071	After JVMs are restarted, servers are incorrectly marked as fully started even though some modules did not complete initialization.

MDM-19768
MDM-19186
	Occasionally, when you run SIF commands on cross-reference records, the following error occurs:
	
	`SIP-40609: Cannot edit the record.`
	`The PERIOD_REFERENCE_TIME that you specified is not within the effective period for the record you are editing.`

MDM-19587 MDM-17086	After the executeBatchUnmerge SIF API runs, the relationship between C_B_PARTY and C_B_PARTY_ALT_ID is not set correctly.
MDM-18915 MDM-16881	When an exact match rule includes columns from child records, the Find Duplicates operation returns child records that do not match.
MDM-18436 MDM-16422 MDM-24032	The Delete Business Entity REST API cannot delete child records in a business entity. The REST API fails with a null pointer exception.
MDM-18166 MDM-16683	If you use the depth parameter when you implement pagination, a REST API request does not return any results.
MDM-17744 MDM-14690	REST calls fail when the global identifier (GBID) contains the hyphen (-) character.
MDM-16921	The search REST API performance is poor when you retrieve multiple business entity records with depth > 2. To fix this issue, the `cmx.server.enrichcopager.thread_pool` and `cmx.server.enrichcopager.min_rec_for_multithreading` properties are introduced.

Closed Enhancement Requests

MDM Hub Closed Enhancement Requests (10.3 HF1)

The following table describes closed enhancement requests:

Reference Number	Description
MDM-23396	Oracle Database 18c is supported for Multidomain MDM 10.3 HotFix 1.
MDM-23203	Informatica ActiveVOS 9.2.4.5 is supported for Multidomain MDM 10.3 HotFix 1.
MDM-22997	You must deploy Multidomain MDM on IBM WebSphere Application Server Version 9.0 Fix Pack 10. Multidomain MDM 10.3 HotFix 1 does not support WebSphere versions earlier than 9.0 Fix Pack 10.
MDM-22899	You must deploy Multidomain MDM on Red Hat JBoss Enterprise Application Platform (EAP) 7.1. **Note:** The end of maintenance support by Red Hat for JBoss EAP 6.x is June 2019. You are recommended to upgrade to JBoss EAP 7.1 and Multidomain MDM 10.3 HotFix 1 for continued support, bug fixes, and security patches from Red Hat. Multidomain MDM 10.3 HotFix 1 does not support JBoss EAP versions earlier than 7.1.
MDM-22798	You can run Multidomain MDM 10.3 HotFix 1 on Red Hat OpenJDK 8 in a JBoss application server environment.
MDM-22840 MDM-12129	When a cross-reference record is restored, the MDM Hub can trigger a message to be placed in the JMS message queues. To set up message triggers for an event that restores a cross-reference record, use the Schema Manager. In the Events section of the Message Triggers page, select Restore, which is the new event included in the section.
MDM-21658 MDM-16901	In the Resource Kit, the AssignUsersToDatabase script was updated to support uppercase characters in user names.

Provisioning Tool Closed Enhancement Requests (10.3 HF1)

Enter a short description of the concept here (required).

The following table describes closed enhancement requests:

Reference Number	Description
MDM-23946	You can copy a business entity or a business entity view and save it with a unique name. The copy inherits the entire model from the original business entity or business entity view. In the copy, you can add, edit, and remove fields from the model as required.
MDM-22815	You can use the Application Editor in the Provisioning tool to configure the default date format used by the Data Director application. Also, you can configure the display format as Date or Datetime for specific date fields in the business entity and reference entity model. The configured date formats appear in all the record views.

Reference Number	Description
MDM-22146	Enhanced the performance of the Provisioning tool by improving the response time.
MDM-21855	You can customize the messages that appear when tasks are triggered in Data Director. You can also localize the messages.

Data Director Closed Enhancement Requests (10.3 HF1)

The following table describes closed enhancement requests:

Reference Number	Description
MDM-18259 MDM-16206	The `getChangedChildren` method that was added to the Save Handler user exit in versions 10.1 HF5 and 10.2 HF2 is available in this release.
MDM-16761 MDM-15751	The `deleteMovedRelInExplorerView` preference that was added in version 10.1 HotFix 5 is available in this release.

Known Limitations

MDM Hub Known Limitations

The following table describes known limitations:

Reference Number	Description
MDM-24156	If you use SAML based authentication, users cannot search for records in Data Director and access the Hub Console. Workaround: To use SAML based authentication, create the users in the MDM Hub as externally authenticated users.

Data Director Known Limitations

The following table describes known limitations:

Reference Number	Description
MDM-24518	When you unmerge a record that has a large number of cross-reference records associated with it, the unmerge process fails.
MDM-24431	When you merge records, Data Director overrides the incorrect value with the value that you enter in the **Merge Preview** column even when state management is not enabled for the base object associated with the business entity. Workaround: If you want to override values, ensure that state management is enabled for the base object with which the business entity is associated.

Reference Number	Description
MDM-24385	When the Elasticsearch search engine is used, if the search string contains accented characters, records are not found. Workaround: Avoid using accented characters in the search string.
MDM-24156	If you use SAML based authentication, users cannot search for records in Data Director and access the Hub Console. Workaround: To use SAML based authentication, create the users in the MDM Hub as externally authenticated users.
MDM-24316	When you upgrade from version 10.2 or earlier, non-administrative users cannot log in to an application. The issue occurs when the application that is created in the Provisioning tool has the same name as the Data Director application that was upgraded.
MDM-23745	When you sort on a column that contains a lookup list with more than 40 values, the sort fails.

Version 10.3

Fixed Limitations

MDM Hub Fixed Limitations (10.3)

The following table describes fixed limitations:

Reference Number	Description
MDM-21652	Fixed a security issue.
MDM-21398	By default, a Put or Cleanse Put call applies BVT calculations to all fields in a record instead of the fields specified in the SIF request.
MDM-21394 MDM-17424	After all the jobs in a batch group complete, the batch group status remains as `processing`.
MDM-20972	After you delete a XREF record, the HMRG table is not correctly updated, which causes an Unmerge Failure.
MDM-20854	In an IBM DB2 environment, when you enable the Hierarchy Manager, the creation of the hierarchy entity objects fails with a DB2 error.
MDM-20068	After you unmerge a parent record, the foreign key column in a parent-child relationship table is updated to point to the ROWID_XREF for the child record instead of the ROWID_OBJECT for the child record. The issue occurs when a child record has multiple cross-reference records that point to the ROWID_XREF of the parent record.
MDM-19967	When you promote changes in the Hub Console, the promote process is slower than expected.
MDM-19739	In an IBM DB2 environment, when you run an external match, the match fails with a DB2 error.

Reference Number	Description
MDM-19684	When a long `auth_payload` value is generated and a line feed is included, an error occurs when you use the `auth_payload` value in a custom login provider.
MDM-19681	Null values are not written to the base object record even when the following conditions are met: - The **Allow Null Update** property is enabled for a staging table column. - A null value is the most trusted value in the staging table column.
MDM-19658	When you run a stage job with delta detection enabled on specific staging table columns, all the records might not be written to the RAW table. Records with null values in the columns that are mapped to the PKEY_SRC_OBJECT staging table column are skipped.
MDM-19651	In an IBM DB2 environment, when you drop base object columns, the performance is poor.
MDM-19650	In an IBM DB2 environment, when you drop base object columns, the performance is poor.
MDM-19645	In the Hub Console, when you use the Enterprise Manager or the Repository Manager, a null pointer exception is generated when fetching roles.
MDM-19643	The Parse Float data conversion cleanse function fails to convert numeric string data to the float data type.
MDM-19644	When a message trigger is enabled for the Delete BO data event and the Delete XREF data event, during a soft delete batch load operation, messages are not generated.
MDM-19174	When you configure the MDM Hub column properties, if you save the column configuration of a non-nullable column without specifying a default value, the MDM Hub does not generate a validation error.

MDM-19051	In the infrastructure version of WebLogic 12.2.1.3.0, deployment of the `siperian-mrm.ear` file fails with the following error:
	`weblogic.management.DeploymentException:`
	`java.lang.IncompatibleClassChangeError: Implementing class`

MDM-18948	When a load process inserts records into a relationship base object, the parent records might not be marked dirty. The issue occurs where the parent base object has match columns based on the child base object. The load process does not insert the ROWID_OBJECT value of the record into the dirty table associated with the base object.
MDM-18785	In smart search, if you use a multiple word search term, records that are missing one word are omitted from the search results.

MDM-18372
MDM-18435
	In the Hub Console login page, when an incorrect user name or password is entered, the following unclear error message appears:
	`SIP-09070: SIP-18017: Error occurred during user authentication, error`
	`was {0}`
	`java.lang.NullPointerException`

MDM-18354	In an IBM DB2 environment, when you drop more than three base object columns, the transaction might time out.
MDM-18327	When you update multiple cross-reference records associated with one base object, only one cross-reference record is passed to the post load user exit.

Reference Number	Description
MDM-17881	When you use invalid user credentials to log in to the Hub Console or to authenticate with SIF, a null pointer exception occurs.
MDM-17367	When you initialize the server cache with localhost, you are not warned that using localhost causes cache-related performance issues in clustered appserver environments.
MDM-16433	Null values are not written to the base object record even when the following conditions are met: - The **Allow Null Update** property is enabled for a staging table column. - A null value is the most trusted value in the staging table column.
MDM-8723	When you install ActiveVOS during the Hub Server installation in console mode, incorrect prompts appear when you select the Service connection type.
MDM-6187	The MDM Hub does not store the match score from ssaName3 in the MTCH table.

Data Director Fixed Limitations (10.3)

The following table describes fixed limitations:

Reference Number	Description
MDM-21160	After you open a task, you cannot see updated data.
MDM-20965	When a package contains a join to a second package, a query on the first package fails.
MDM-20888	Fixed a security issue.
MDM-20752	You cannot change the default calendar format used in the **History** view.
MDM-20664	Task actions are disabled for users with uppercase user names.
MDM-20162	A business entity is not generated successfully from a subject area group.
MDM-19984	In the Query panel, the first tab appears in English instead of the selected UI language.
MDM-19851	When you add a hyperlink that contains the @ character, Data Director parses the text incorrectly and saves an incorrect hyperlink.
MDM-19849	In the **Data** view, when you use the **Find Duplicates** option, the performance is slower than expected.
MDM-19845	A search package returns incorrect child records for a selected effective period. The issue occurs under the following circumstances: - The search package that is configured for a subject area is a display package that joins parent and child base objects. - The parent and child base objects that the search package joins have timeline enabled.

Reference Number	Description
MDM-19816	When you sort the search results and then export the sorted records, the exported CSV file contains duplicate records.
	If there is more than one table included in the search, you must include the local table name as a prefix to your sort column and specify the sort order (`DESC|ASC`). For example, where the local table name is `BO` and you want to sort by the column `LNAME` in descending order, use the following format:
	`<urn:sortCriteria>BO.LNAME DESC</urn:sortCriteria>`
MDM-19657	If you configure an additional workspace tab, the title of the tab might not display correctly.
MDM-19785	In environments with single sign-on authentication, users with a backslash (\) character in the user name cannot log in to Data Director.
MDM-19656	When case insensitive query search is enabled, the performance of the search query is poor.
MDM-19655	When you open the Provisioning tool in Microsoft Internet Explorer, you cannot publish your changes.
MDM-19647	If you log in through single sign-on (SSO), you cannot access the Task Manager.
MDM-19641	The History view displays incorrect data for a timeline-enabled base object record.
MDM-19640	When a subject area has multiple grandchild subject areas with the same name, the business entity schema that you generate fails with the `SIP-MV-17006` and `SIP-MV-17005` metadata validation errors.
MDM-19642	The merge preview creates too many cleanse requests for inline cleanse functions, which causes performance issues.
MDM-19636	The Hub Server properties `http-only` and `cookie-secure` do not work.
MDM-19368	When you log in, the dashboard displays a long title of all the subject areas that have tasks for the current user.
	Fix: To display a preferred default title, set the `cmx.server.override_orstitle` property to a preferred title in the `cmxserver.properties` file.
MDM-19176	A record with associated lookup fields does not open in the **Cross-reference Records** view.
MDM-19086	A business entity-to-business entity view transformation fails in a scenario with the following business entity view configurations:
	- The business entity view child node has a one-to-many relationship with the parent node.
	- The parent node is not a business entity view root node and has a one-to-one relationship with its parent.
MDM-19049	If you create a searchable lookup without a rowid_object column to define the relationship, the business entity schema does not generate the corresponding column for the Data Director application.
MDM-19021	When ActiveVOS is the workflow engine, if you try to filter many tasks that have the same due date, the filter fails.
MDM-18947	On the **Export** dialog box, the subject area name is not localized.

Reference Number	Description
MDM-18822	When you open a data import result file in Microsoft Excel, multibyte characters are garbled.
MDM-18816	When you sort on a column that contains a lookup list with more than 40 values, the sort fails.
MDM-18794	When a REST API request for a record includes effective dates, a null pointer exception error might occur.
MDM-18679	When you run the Merge task, the performance of the merge task is slower than expected.
MDM-18635	In Data Director applications with business entities, the **Close** icon is not visible in the user interface tabs.
MDM-18564	Lookup fields do not appear in the Matching Records view, and lookup fields list incorrect values in the History view and the Cross-reference Records view.
MDM-18522	If a subject area child has a one-to-one relationship with grandchild records, you cannot export all search results.
MDM-18497	If you make a Get API call to retrieve data in child records for effective dates that do not contain data, the request returns an error.
MDM-18434	When a lookup column with an alias is included in an advanced search query, the search result does not contain the value of the lookup field.
MDM-18415	If you do not have update privileges on a foreign key column in a parent base object, a Put request fails to update a column in a child base object.
MDM-18408	The **Find Duplicates** process returns some incorrect matches at the child record level.
MDM-18406	In the **Data** view, when you run a search query with a search condition that exceeds the length of the specified column, the query fails with the following error: `SIP-14150: Data access failure in searchQuery.`
MDM-18263	In the **Hierarchy** view, when a user without administrative privileges clicks **More Details** for a record, all the data that an administrative user can review might not appear. This issue occurs when sub-packages are used in the query package.
MDM-18212	If you try to approve a task with a child or grandchild that is not part of the subject area that the task is based on, the approval process fails with optimistic lock failure.
MDM-18211	When the page size for user preference is set to 0, search results do not appear.
MDM-18197	You cannot resize the Search page.
MDM-18175	A custom screen does not show up in Data Director.
MDM-18069	When the French locale is set up for the MDM Hub machines, JVMs, and the database, some number formats are not saved correctly. The following error might occur: `java.lang.NumberFormatException`
MDM-18067	When you update a record in the **History** view, long display names do not display correctly.
MDM-17965	When you update a record and then cancel the change, a null pointer exception might occur.

Reference Number	Description
MDM-17783	When you create an unmerge task in Informatica Data Director, the unmerge operation fails with the following error: `com.informatica.mdm.api.unmerge.Unmerge: SIP-10228: No record found for the specified RecordKey`
MDM-17763	The Similar Records component is empty even though similar records exist.
MDM-17756	When you use ActiveVOS for workflow management, all task operations run slower than expected.
MDM-17675	In the Matching Records view, the page navigation component is missing.
MDM-17203	When you perform a task action, such as **Approve** or **Reject**, you are required to add a comment.
MDM-17128	If you change the language using the **Change Language** option, the **Log Out** option does not appear in the selected language.
MDM-17038	Options in the **New** window do not display alphabetically.
MDM-17037	If there are many business entity types in the list for the **Search** box, some business entity types might not appear.
MDM-16931	In Internet Explorer, when you view records in the **Business Entity** view, the **Edit** and **Delete** icons do not appear for business entity reference fields.
MDM-16440	When you open the **Task Details** dialog box, add comments, and then reassign the task, your comments are not saved.
MDM-16146	When you perform a search, an error message appears over the search results. This issue occurs when a Data Director application uses LDAP to authenticate users.
MDM-13701	In the task inbox, the check boxes that appear beside tasks suggest that you can perform bulk task actions.

Provisioning Tool Fixed Limitations (10.3)

The following table describes fixed limitations:

Reference Number	Description
MDM-21116	When you convert subject areas to business entities, the generator cannot handle keywords as field names.
MDM-20895	When you configure a business entity with an external call, users cannot successfully create a record based on that business entity in Data Director.

Reference Number	Description
MDM-19679	When you generate business entities from a subject area configuration, an error might occur in the following scenario: - Many-to-many relationships exist between business entities. - A relationship has a "From" node that is not a root node.
MDM-14443	An XML-to-Business-Entity transformation cannot map data from multiple XML nodes to a single object.

SIF API Fixed Limitations (10.3)

The following table describes fixed limitations:

Reference Number	Description
MDM-20884	Fixed a security issue.
MDM-19678	A Promote API call updates all fields in a record instead of updating only the fields in a pending cross-reference record specified in the SIF request. To specify that the MDM Hub only applies BVT calculation to fields that are part of the SIF request, set the `cmx.server.selective.bvt.enabled` property to `true` in the `cmxserver.properties` file.
MDM-19677	An ExecuteBatchAutoMatchandMerge API call does not return an error message even though errors are logged in the Hub Server log.
MDM-19653	In a JBoss environment, when you use the Services Integration Framework (SIF) to run the MDM Hub operations, an out of memory error might occur.
MDM-19639	A CleansePut API call does not update a child foreign key with the correct cross-reference record.
MDM-19635	A SIF API call that runs a multimerge batch job fails with the following error: `SIP-23038: Internal error. The SQL statement generated the SQL error ORA-12899: value too large for column`
MDM-18539	If you make an API call for versioning-enabled base objects that use XREF and base object tables, the request fails and generates an error.
MDM-18238	A Cleanse function call fails with an error.

Reference Number	Description
MDM-18165	In a PromotePendingXrefs API call, when the ROWID_XREF value is used as the record identifier, the child subject area records are not promoted.
MDM-18154	When you use the CleansePut API call to add records, you cannot find the records using search.

Closed Enhancement Requests

MDM Hub Closed Enhancement Requests (10.3)

The following table describes closed enhancement requests:

Reference Number	Description
MDM-17859	Added support for the Oracle WebLogic T3S protocol. For information about setting up the protocol, see the *Multidomain MDM Security Guide*.
MDM-16652	You can view match scores in the External Match Output table.

Data Director Closed Enhancement Requests (10.3)

The following table describes closed enhancement requests:

Reference Number	Description
MDM-19515	In the views for subject areas, values are displayed in a fixed-width font and white space is preserved.
MDM-18280	To help you prioritize tasks, the task inbox in the **Home** page contains the following columns: - Create date. Displays the date on which a task was created. - Owner. Displays the current owner of a task.
MDM-16819	In the Provisioning tool, you can make comments and attachments mandatory for a Data Director application.

Known Limitations

MDM Hub Known Limitations

The following table describes known limitations:

Reference Number	Description
MDM-22756	If you run the Support Tool with the HTTPS protocol, when you navigate from the Match Analysis Tool to the CSM tab, an error occurs.
MDM-22777	After you customize search results to display lookup columns, and you run a search with no values on a package that contains the lookup columns, the lookup columns do not appear in the search results.
MDM-22691	After you run a match job that matches a parent record with a child record, the merge task in the ActiveVOS Console references the child record instead of the parent record.
MDM-22528	After you remove a parameter from a cleanse transformation mapping and apply the change, you cannot add a parameter to the mapping.
MDM-22143	When you integrate Multidomain MDM 10.3 for IBM DB2 with Dynamic Data Masking 9.8.4, and then create a security rule set for DB2, the affected master data is not masked.
MDM-21986	Forward matching records are created during the Automerge process, which can cause the process to run slowly.
MDM-21984	When you use the MdmKeyStore class, a file descriptor leak causes FileNotFoundException errors.

Reference Number	Description
MDM-21376	In an Oracle RAC database environment with the Zero Downtime feature, the extract process generates an Oracle Golden Gate error.
MDM-22070	The `cmx.server.properties` file does not contain the properties that were introduced in this release. Workaround: Add the properties to the file after you upgrade.
MDM-19652	After you unmerge a record that has more than two cross-reference records associated with it, only one cross-reference record reflects the correct last updated date.
MDM-19586	When pattern validation rules with WHERE clauses are applied, trust is downgraded for all records instead of only the records that match the patterns in the WHERE clause.
MDM-15369	When Chinese characters are loaded into a staging table, some Chinese characters get corrupted.
MDM-14943	In WebSphere environments, when you log in to the Hub Console, the following misleading error might appear: `SIP-11101: The Cleanse Match Server license is either not valid or expired.` Workaround: Before you log in to the Hub Console, ensure that the `-Dcom.ibm.crypto.provider.DoRSATypeChecking` Java option is set to `false`. The Java option specifies whether data encryption is allowed and is required for password hashing to work.
MDM-13617	In WebSphere version 8.5.5.9 environments, a stack trace error appears in the cleanse log. The stack trace error begins with the following text: `v01/installedApps/INCMDMHUBQANode01Cell/ siperian-mrm-cleanse.ear.ear/siperian-mrm- cleanse.war/WEB-INF/lib/ com.informatica.mdm-siperian- cleanse-10.2.0-SNAPSHOT.jar!/resources/ infinispanConfig.xml` You can safely ignore the error.
MDM-13372	In Microsoft SQL Server and JBoss environments, when you restart the application server after deployment of the MDM Hub, an error occurs. You can safely ignore the error.
MDM-12164	When you delete cross-reference records associated with base object records that were updated, the delete operation might fail. This is caused by the PUT_UPDATE_MERGE_IND crossreference table column.

Reference Number	Description
MDM-12129	Even though the required message trigger are enabled, the Restore API does not trigger MQ messages.
MDM-11898	When you run the Extract BVT Version batch job for multiple base objects, the last extract date is not set.
MDM-10792	When the database contains partitioned tables, the metadata validation process generates the following warning: `SIP-PV-10233(31) - The tablespace of a table in the database differs from the tablespace specified in the metadata.` You can safely ignore the warning.
MDM-10476	When you unmerge a record with a large number of cross-reference records, the Process Server generates an out of memory error.
MDM-10201	To promote a change list to a schema that has hierarchies enabled, you must have MDM Hub administrator privileges.
MDM-9902	When 'Enable History of Cross-Reference Promotion' is enabled for a base object, the history of cross-reference record promotion is not maintained.
MDM-9816	When you refresh an Informatica Data Quality cleanse function which has two mapplets with different ports using WebSphere, the following error appears: `SIP-11134: Compile failed for compile command`
MDM-9604	When you promote an empty change list to an Operational Reference Store with a business entity configuration, the promote fails with the following error: `Object cannot be deleted because 'CO CS Configs\TaskConfiguration\Task Types \AVOSBeNotification\Task Roles\DataSteward' is depending on it. (deleteRole[id:ROLE.DataSteward])` Workaround: Remove the DataSteward role from the target Operational Reference Store, and then promote the change list.
MDM-9220	You cannot import or promote a changelist from MDM Multidomain Edition version 9.6.1.
MDM-8738	The MDM Hub log file, `cmxserver.log`, increases beyond the maximum specified file size.
MDM-8588	The first time that you import a schema in the Hub Console, the following error might appear: `missing initial moveto in path definition` You can safely ignore the error message.

Reference Number	Description
MDM-8060	When you import or promote a changelist from MDM Multidomain Edition version 9.7.1, an proxy role error is generated. The changelist is not imported or promoted.
MDM-7786	After adding a new role to a user, the Operational Reference Store is marked as invalid.
MDM-7592	A source system that is not mapped to a column in the base object can override a valid value in the column with a null value. For example, SourceA and SourceB contribute to BaseObjectC. SourceA is mapped to ColumnX with minimum and maximum trust settings of zero. SourceB is not mapped to ColumnX and has no trust setting for it, but it is mapped to other columns in BaseObjectC. When SourceB updates BaseObjectC, ColumnX is incorrectly updated with a null value. Workaround: Change the minimum trust setting for SourceA to at least 2.
MDM-5830	After installation of the MDM Hub, the WebSphere application server username and password are visible in the installation logs.
MDM-1578	When you delete an active cross-reference record in the Data Manager tool in the Hub Console, the record is deleted but an error occurs. You can safely ignore the error.

Data Director Known Limitations

The following table describes known limitations:

Reference Number	Description
MDM-22587	When you export search results that are based on a timeline, the export process ignores the timeline and exports all data.
MDM-21988	When a user claims a task, the task inbox does not display a message to confirm that the task is not yet claimed.
MDM-18157	On Chrome, when you display the interface in Chinese, some button labels are truncated.

Data Director with Business Entities

The entity views are based on business entities. To use these views, upgrade Data Director applications from subject areas to business entities.

Reference Number	Description
MDM-22817	When you filter child records by a date that does not exist in the child records, a record with a non-matching date appears.
MDM-22815	You can change the default date format used by the calendar in the Entity 360 framework. To change the default date format, use a text editor to create a `bundleE360.properties` file that contains the property `DATE_TIME_LONG_FORMAT`. Then add the `bundleE360.properties` file to the following location: `infamdm\hub\server\resources\entityE360` **Note:** If the `entityE360` directory does not exist, create the directory.
MDM-22811	In the simple merge component, when you want to change a date value, the calendar does not appear correctly. Workaround: Type in a date.
MDM-22519	In the search results, some rows are empty. The rows represent records that are filtered out because the user does not have permission to view the records. Workaround: The MDM administrator has to delete the search index. From the Provisioning tool, open the business entity and add or update any searchable field. Any change to the searchable configuration deletes the index. Re-index the data for the business entity.
MDM-22369	When you preview a changed record from a task, the preview might not display the change bar beside some of the changed values in child records.
MDM-21692	The calendar controls are not localized.
MDM-18665	When you delete the Status Cd code, the following error occurs: `Cannot read property 'taskId' of undefined` Workaround: You can edit this field, but you cannot delete it.
MDM-14958	In the Search box drop-down list, when the list exceeds the height of the browser window, you cannot scroll the list to see the items that are off screen. Workaround: In the browser, switch to full screen mode. Increase the resolution until you can see the remainder of the list.
MDM-14952	In the **History** view, the timescale labels in the Options menu do not appear correctly initially. Workaround: Interact with the timescale for the timescale labels to display correctly.
MDM-14933	In the **Hierarchy** view, business entities in the **Relationships** tab of the history do not open in Business Entity view. Workaround: Use the Search box to find the business entity, and then open the entity in a Business Entity view.
MDM-14932	In the **Timeline** view, you cannot open the relationship records that appear on the **Relationships** tab.

Reference Number	Description
MDM-14920	In the **Hierarchy** view, in the Entity Details dialog box, when you click **More Details**, the dialog box closes without opening the selected business entity. Workaround: Use the Search box to find the business entity, and then open the entity in a Business Entity view.
MDM-14919	In the **Hierarchy** view, the anchor entity **Actions** > **Open in New Tab** option does not open a new tab.
MDM-14918	In the **Hierarchy** view, the anchor entity **Actions** > **Edit** > **Edit Entity** option does not open the business entity. Workaround: From the View list, select the Business Entity view.
MDM-14890	In Microsoft Internet Explorer 10, the **Log Out** button is not visible from the Business Entity view and details do not display correctly in the History view. Workaround: Use another supported browser.
MDM-14781	In the **Matching Records** view, when you select a child record as the target record, the interface lets you select a record in the pending state. However, pending records cannot participate in a merge process, which means that the merge fails. Workaround: Select a child record in the active state as the target record.
MDM-14460	If the time zone of the application server is different from the time zone of the client, the time of an event in the History view differs from the time in the event details panel.
MDM-14385	When you view the details of merge and unmerge operations, user names are sometimes prefixed with `e360` in the Updated By or Created By fields.
MDM-14327	If there are multiple pages of search results for business entity child records and you type in a page number beyond the range of pages displayed, subsequent attempts to view a page of search results fail and an error occurs.
MDM-11397	If you use the mdm_sample Operational Reference Store, you cannot add or update the phone number of a Person business entity. Workaround: Before you add or update the phone number of a Person business entity, perform the following steps: 1. In the Hub Console, start the **Cleanse Functions** tool, and then acquire a write lock. 2. Click **Custom** > **Parse Phone Number - NA**. 3. Click the **Details** tab of the Parse Phone Number - NA function. 4. Right-click on **Condition** and click **Edit Condition**. 5. In the **Edit Condition** dialog box, for each case value, change the country code from `+1` to `1`. 6. Save the changes and use the Repository Manager to validate the metadata.
MDM-8768	After you upgrade and then delete all the configuration files from the repository table c_repos_component_instance, tasks might not display in the Task Manager inbox for the first user who logs in to Informatica Data Director. Workaround: Log out of Informatica Data Director and then log in again.

Reference Number	Description

MDM-8764	When you generate the business entity schema from a subject area configuration, mandatory lookup fields are not included in the business entity view configuration or transformation configuration.
	
	Workaround: In the Provisioning tool, add the missing configuration code:
	1. Select **Advance Configuration > Business Entity Views (XML)**.
	2. Add the following code to the lookup configuration:
	`<ns2:field name="<missing field name>"/>`
	3. Select **Advance Configuration > Transformation Configuration (XML)**.
	4. Add the following code to the co2view configuration:
	`<input name="<missing field name>" field="<missing field name>"/>`
	`<output name="<missing field name>" field="<missing field name>"/>`
	5. Add the following code to the view2co configuration:
	`<input name="<missing field name>" field="<missing field name>"/>`
	`<output name="<missing field name>" field="<missing field name>"/>`
	6. Select **Advance Configuration > Business Entities (XML)**.
	7. Add the following code to the lookup configuration:
	`<ns2:field name="<missing field name>" label="<missing field name>" column="<missingcolumn name>" required="true"/>`
	8. Click **Update**.
	9. Click **Validate + Publish**.

MDM-8606	In the **Matching Records** view, when you merge records, the system can appear unresponsive. Workaround: Wait until the merge job finishes.
MDM-7597	If you delete a record and then search for the record, the ROWID of the deleted record still displays.
MDM-5715	On Internet Explorer 9 and 10, if you group search results by type, you cannot then expand the search results. Workaround: Use Internet Explorer 11 or alternative browsers such as Chrome, Safari, or Firefox.
MDM-5333	Match and merge is not supported for business entity child records. If you try to add match records to a child record, you might corrupt the data.
MDM-2699	In calendars, you cannot set a date before January 1, 1000.
MDM-2584	In the **Task Manager**, you are unable to sort tasks by Task ID, Task Type or Task Status.
MDM-2574	In the task inbox, setting the Owner filter to `Unclaimed` does not return the list of unclaimed tasks.

Data Director with Subject Areas

The legacy views are based on subject areas.

Reference Number	Description
MDM-16464	When you run a search query with a specified effective date, the search results display incorrect values for records from a child subject area.
MDM-14872	In the **Matches** view, users can add a record as a merge candidate that has already been selected to merge with another record. When the record is added as a merge candidate, an error occurs.
MDM-13787	In the **XREF** view, you can select a cross-reference record to unmerge when an unmerge task already exists for that record. An error occurs when the duplicate unmerge task is processed.
MDM-10613	In the **Hierarchy** view, when you end date a relationship and the relationship record is from a different source system than the IDD SMOS system, the existing relationship record is deleted.
MDM-9796	In the **Hierarchy** view, when you disable an entity type in the **Filters** tab, you cannot create relationships with those entities. Workaround: Before you create relationships, open the **Filters** tab, and select the entity types that you want to use in the relationship.

Provisioning Tool Known Limitations

The following table describes known limitations:

Reference Number	Description
MDM-22531	When you configure a read-only field with more than one default value, the Provisioning tool displays a validation error. Workaround: Use a cleanse job to set the default value for a read-only field.
MDM-22457	If you publish a layout with a duplicate name, the publish process fails with an error.
MDM-22444	If you mark a field as read-only in a business entity, a cleanse transformation on that field fails. Workaround: Mark the field as read-only in a business entity view.
MDM-21991	When you include the legacy **Merge Preview** in a record view, the Provisioning tool displays an error.
MDM-20600	When you remove a base object from the Hub Console, the Provisioning tool continues to show the base object and does not generate validation errors. Workaround: If you delete a base object, update the related business entity in the Provisioning tool.
MDM-14749	When you delete a base object in the Hub Console, the dependencies are not removed from the business entity configurations in the Provisioning tool. Workaround: In the Provisioning tool, delete the dependencies on the base object.

Reference Number	Description
MDM-14255	When you configure an XML to Business Entity transformation, the parent node fields are not available for mapping in the cleanse transformation of a child node element. Workaround: Manually enter the path to the parent element that you want to map. Use the Service Data Object (SDO) XPath expression, where / represents a root XML element. For example, in the transformation for the `address` child node, to access the `dunsNumber` parent element, use the path `/OrderCompanyProfileResult[1]/ServiceResult[1]/OrderProductResponseDetail[1]/InquiryDetail[1]/DUNSNumber[1]`
MDM-14528	If you create a transformation with the same name as another transformation, a validation error message does not appear. An error appears only when you try to publish the changes.
MDM-14521	When you use the Provisioning tool in the Chrome web browser, Chrome might become unresponsive.
MDM-14449	If you make a field searchable in a reference entity that is referenced in two or more business entities, then the field is searchable for all the business entities. Furthermore, if you make a field searchable in a reference entity that is not referenced in any business entity, then the field is not searchable. Workaround: Make a field searchable in a reference entity that is referenced in only one business entity.
MDM-13754	If a write lock is acquired in the Hub Console, the Provisioning tool does not work as expected.
MDM-8844	When you publish configuration changes through the Provisioning tool, you can overwrite these changes if you generate a business entity schema through the IDD Configuration Manager.
MDM-8668	From the **Modeling** page, you can access and edit system columns. Workaround: Avoiding editing system columns.
MDM-7219	The Provisioning tool fails to launch when the last slash is omitted. Workaround: Add a slash character to the end of the URL: `http:/host:port/provisioning/`

Business Entity Services Known Limitations

The following table describes known limitations:

Note: In previous releases, business entity services were called composite services.

Reference Number	Description
MDM-14375	When you specify more than one recordState for the GetRelated SOAP API, an error occurs.
MDM-13715	When you merge records with the WriteCO API, an error occurs.
MDM-10553	When you run a read composite service for a deleted grandchild record, the composite service call does not return data.

Search with Solr Known Limitations

Search refers to a full-text search on fields that are configured as searchable. Search with Solr was formerly referred to as *Smart Search*.

The following table describes known limitations:

Reference Number	Description
MDM-22690	After searching for a record, the actions in the search results include actions that are not applicable to a Data Director application with business entities.
MDM-20998	After running a delete process with SIF APIs or business entity services, the search index is not deleted.

MDM-14953	The Initially Index Smart Search Data job might fail with the following error:
	
	`SIP-52050: Failed to retrieve the ZooKeeper client instance because the connection to the ZooKeeper client instance timed out.`
	`No collection linked.`
	
	Workaround: Re-run the job after 10 minutes. If you get the same error again, restart the application server and re-run the job.

MDM-14945	After you delete a pending record, you get the following error in the `cmxserver.log` file: `[ERROR] com.informatica.mdm.sss.SmartSearchMDB: SIP-11041: Communication error "invalid stream header: 3C3F786D" occurs when making a request to Process  Server`
MDM-14944	The Initially Index Smart Search Data job fails if a business entity name contains an underscore. Workaround: Avoid underscores in business entity names.
MDM-11238	When you use a search string within double quotes (") to perform an exact search, the search might not return the expected results. Workaround: Prefix each double quote with a backslash (\) and search again. For example, `\"Robin Williams\"`

MDM-10723	After you set a field as a searchable field, a search request might fail.
	Workaround: Perform one of the following tasks:
	- Reload the collection with the following URL: `http://<Host Name>:<Port>/MDESolr/admin/collections?action=RELOAD&name=<Collection Name>`
	  `Host Name` indicates the host name of the Process Server that you use as a ZooKeeper server, and `Port` indicates the port number on which the Process Server listens. `Collection Name` is the name of the collection or business entity to which you added the field.
	  You can get the collection name from the following directory: `<MDM Hub Installation Directory>\hub\cleanse\solr`.
	  For example, `4d5354312e375056.Person` is the collection name for the Person business entity.
	- Stop the application server, delete the ZooKeeper data directory, and then restart the application server.

Reference Number	Description
MDM-10389 MDM-11925 MDM-12691	A search request might return one of the following errors: - `[SearchService_30027]Exception occured while getting query the constructor` - `An internal error occurred. Contact an administrator to get more information for the client tool logs. If the administrator cannot determine the cause of the error, contact Informatica Global Customer Support.` Workaround: Restart the application server, and try again. If you get the same error, perform the following tasks: 1. Stop the application server. 2. Delete the ZooKeeper data directory. 3. If you enabled search on multiple process servers, delete the following directory: `<MDM Hub Installation Directory>\hub\cleanse\solr` 4. Restart the application server. 5. If you delete the `solr` directory, run the Initially Index Smart Search Data job. 6. Perform the search again.
MDM-9805	The WADL files for the REST services are out of date. Workaround: For information about the REST services, see the *Multidomain MDM Business Entity Services Guide*.
MDM-8488	When you search for a negative number or use a negative number to filter the search results, you get the following error: `[SIP-11008] SIP-11008: [SearchServiceClient_00028] You cannot use the following operators in the search string: AND, NOT, -, and OR. Add + before each search word if the search results must contain the word. Do not add + if the search word is optional or single word.`
MDM-8598	After you restart the application server, the Initially Index Smart Search Data job or a search request might return the following error in the application server log file: `No live SolrServers available to handle this request` Workaround: Restart the application server.
MDM-8161	If you configure the search to display many results, some browsers do not display all the records or become unresponsive.
MDM-5785	A search request does not facet the dates that are earlier than 1970.
MDM-4753	The search UI displays two filters with the same name without identifying the objects that the filters act upon. Filter fields do not have to be unique. A root object and a child object can both have a field with the same name, such as Name, and both fields can be configured as a filter. Workaround: Ensure that column names are unique for the root object and its children.
MDM-3289 HORA-52192	If the composite objects do not include a field named `displayName`, the **Name** column in the Search workspace displays random field values when you perform a search. Workaround: To set a field for the **Name** column, use a database tool to open the C_REPOS_CO_CS_CONFIG table and set the `displayName` property of the composite objects to an appropriate field in the BLOB data of the SEARCHABLE_CO configuration type.

Reference Number	Description
MDM-3235	The Initially Index Smart Search Data job might return incorrect metrics if you run the job more than once.
MDM-2644	After you enable search on the Process Server, the application server log file does not include any relevant error message if the collection creation fails due to insufficient memory.
MDM-1799	When you search for a negative value, the search request returns the positive and negative matching values.

Business Process Management Known Limitations

The following table describes known limitations:

Reference Number	Description
MDM-22814	Siperian workflow engine. When you try to reassign a claimed task, the Assignees list is empty in the Edit task dialog box.
MDM-14205	If you use the sample Operational Reference Store, an error occurs when you open the Workflow Manager in the Hub Console. In the sample Operational Reference Store, the value of WORKFLOW_ENGINE_NAME in MDM_SAMPLE.C_REPOS_DB_RELEASE does not match the value of NAME in CMX_SYSTEM.C_REPOS_WORKFLOW_ENGINE. Perform one of the following workarounds: - Add the business entity-based workflow engine ActiveVOSBE to the configuration if it does not exist, or; - Update the configuration in the Sample Operational Reference Store to the name of the existing business entity workflow engine. In the column `CMX_SYSTEM.C_REPOS_WORKFLOW_ENGINE`, change the value to `ActiveVOSBE`.
MDM-13359	If you use ActiveVOS, a user cannot belong to a role that creates an unmerge task and also belong to a role to approves that task type. If a user belongs to both roles, an error occurs when the user tries to approve the unmerge task.
MDM-12011	When you install the MDM Hub with ActiveVOS, the following exception appears in the postInstallSetup.log file: `java.util.concurrent.RejectedExecutionException` You can safely ignore this exception.
MDM-9079	In the ActiveVOS Console, on the **MDM Identity Provider** page, you must enter the password of the MDM Hub user named `admin` in the **MDM Connection Settings Password** field. You cannot use the password for any other user, even if the user has administrative privileges.
MDM-9041	When multiple workflow triggers apply to an action, the first applicable trigger is applied, even if subsequent triggers are specific to the business entity. Workaround: In the task configuration file, place the triggers that are specific to a business entity at the beginning of the file. Place the more general triggers at the end of the file.

Reference Number	Description
MDM-8763	When you install the MDM Hub with embedded ActiveVOS in a Linux environment, the following error appears in the postInstallSetup.log: `[exec] Unable to locate tools.jar. Expected to find it in /data/tmp/ install.dir.12594/Linux/resource/lib/tools.jar` You can safely ignore the error.
MDM-8622	When you import ActiveVOS tasks from version 9.7.1 and run a batch file to add presentation parameters to the tasks, an error occurs. You can safely ignore the error.
MDM-8086	The task priority set by the MDM Hub cannot be used to trigger an ActiveVOS escalation.
MDM-6473	The Hub Server silent installation process sets the incorrect ActiveVOS database URL when the silent installer property `AVOS.ORACLE.CONNECTION.TYPE` is set to `SID`. Workaround: Before you perform the Hub Server silent installation, set the silent installer property `AVOS.ORACLE.CONNECTION.TYPE` to `Service Name`.
MDM-5290	When you change the BPM adapter, the number of merge tasks is counted incorrectly and the number might exceed the threshold value for merge tasks. Workaround: Set the value of the ROWID_TASK column in the _MTCH table to NULL.

Resource Kit Known Limitations

The following table describes known limitations:

Reference Number	Description
MDM-14102	When you deploy the web sample LookupWebServiceExample, the MDM Hub generates an error in the application server log file. You can safely ignore the error.

Sample Operational Reference Store Known Limitations

The following table describes known limitations:

Reference Number	Description
MDM-14684	After you upgrade, when you validate the IDD configuration, an error occurs stating that the SrManager role does not exist in the task configuration file. Workaround: Add the SrManager role. 1. In the Hub Console, add the SrManager role with the required privileges. 2. Use the Repository Manager in the Hub Console to validate the metadata. 3. Truncate the repository table C_REPOS_CO_CS_CONFIG. 4. In the IDD Configuration Manager, generate the business entity schema for the IDD application.
MDM-14434	The Entity view does not display the full list of lookup column values. Workaround: Use the Databases tool in the Hub Console to set the GETLIST limit to 300 for the lookup base object.

Services Integration Framework Known Limitations

The following table describes known limitations:

Reference Number	Description
MDM-19151	The DeleteMatches service does not correctly process data blocked by InteractionID.
MDM-8880	SIF calls update the LAST_UPDATE_DATE column and the UPDATED_BY column with incorrect data.
MDM-593	In Microsoft SQL Server environments on the Windows operating system: When SearchMatch is run using multiple threads, the following error occurs: `SIP-10226=Error in building query to run MATCH verb.` Workaround: Add the following entries to the registry subkey `HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters`: Value Name: MaxUserPort Value Type: DWORD Value data: 65534

Informatica Platform Known Limitations

The following table describes known limitations:

Reference Number	Description
MDM-18229	In a Linux environment, the option to install the Informatica platform is not available.

Informatica Data Controls Known Limitations

The following table describes known limitations:

Reference Number	Description
MDM-8950	In Microsoft Internet Explorer 11, the Proactive Match window stops responding when you click Import. Workaround: In the Java Server Page file, enable compatible mode for the host page.