Informatica® MDM Multidomain Edition
10.2 HotFix 3

Release Guide
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Preface

The Informatica MDM Multidomain Release Guide lists new features and enhancements, behavior changes between versions, and tasks you might need to perform after you upgrade from a previous version. The Informatica MDM Multidomain Release Guide guide is written for users of Informatica® MDM Multidomain Edition. This guide assumes that you have knowledge of the features for which you are responsible.

Informatica Resources

Informatica Network


As a member, you can:

- Access all of your Informatica resources in one place.
- Search the Knowledge Base for product resources, including documentation, FAQs, and best practices.
- View product availability information.
- Review your support cases.
- Find your local Informatica User Group Network and collaborate with your peers.

Informatica Knowledge Base

Use the Informatica Knowledge Base to search Informatica Network for product resources such as documentation, how-to articles, best practices, and PAMs.

To access the Knowledge Base, visit https://kb.informatica.com. If you have questions, comments, or ideas about the Knowledge Base, contact the Informatica Knowledge Base team at KB_Feedback@informatica.com.

Informatica Documentation

To get the latest documentation for your product, browse the Informatica Knowledge Base at https://kb.informatica.com/_layouts/ProductDocumentation/Page/ProductDocumentSearch.aspx.

If you have questions, comments, or ideas about this documentation, contact the Informatica Documentation team through email at infa_documentation@informatica.com.
Informatica Product Availability Matrixes

Product Availability Matrixes (PAMs) indicate the versions of operating systems, databases, and other types of data sources and targets that a product release supports. If you are an Informatica Network member, you can access PAMs at https://network.informatica.com/community/informatica-network/product-availability-matrixes.

Informatica Velocity

Informatica Velocity is a collection of tips and best practices developed by Informatica Professional Services. Developed from the real-world experience of hundreds of data management projects, Informatica Velocity represents the collective knowledge of our consultants who have worked with organizations from around the world to plan, develop, deploy, and maintain successful data management solutions.

If you are an Informatica Network member, you can access Informatica Velocity resources at http://velocity.informatica.com.

If you have questions, comments, or ideas about Informatica Velocity, contact Informatica Professional Services at ips@informatica.com.

Informatica Marketplace

The Informatica Marketplace is a forum where you can find solutions that augment, extend, or enhance your Informatica implementations. By leveraging any of the hundreds of solutions from Informatica developers and partners, you can improve your productivity and speed up time to implementation on your projects. You can access Informatica Marketplace at https://marketplace.informatica.com.

Informatica Global Customer Support

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

To find your local Informatica Global Customer Support telephone number, visit the Informatica website at the following link: http://www.informatica.com/us/services-and-training/support-services/global-support-centers.

If you are an Informatica Network member, you can use Online Support at http://network.informatica.com.
Part I: Version 10.2

This part contains the following chapters:

- New Features and Changes (10.2 HotFix 3), 13
- New Features and Changes (10.2 HotFix 2), 15
- New Features and Changes (10.2 HotFix 1), 19
- New Features and Changes (10.2), 25
Chapter 1

New Features and Changes (10.2 HotFix 3)

This chapter includes the following topics:

- New Features (10.2 HotFix 3), 13
- Changes (10.2 HotFix 3), 14

New Features (10.2 HotFix 3)

Java Virtual Machine Settings for Smart Search

If you want to configure smart search for the MDM Hub, configure the Java Virtual Machine (JVM) by setting the Java options for smart search.

Set the following Java options for smart search:

-Dmdm.ps.zk.node

Required if you want to use smart search. Set this Java option on the JVM for the Process Server that is intended to be the ZooKeeper server. Set to true.

-Dmdm.ps.search.node

Required if you want to use smart search. Set this Java option on the JVMs for the Process Servers that will have search processing enabled and function as Solr servers. Set it to true.

-Dsearch.service.port

Required if you want to install multiple Process Servers on the same machine but on different JVMs and enable smart search on all the Process Servers on the machine. This Java option specifies the port used by the JVM for the search service. To avoid port conflicts, use the default port for the JVM of one Process Server, and set this Java option to the relevant port numbers for the JVMs of the remaining Process Servers.
REST API Enhancements

When you use REST APIs to create or update child records, you can add the child records in the same POST request. Previously, you had to make two requests.

When you use REST APIs to add a child record, you can point to a specific parent record. Previously, you could not specify a parent record in the request.

Message Trigger Enhancement

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.

For more information, see the MDM Multidomain Edition Version 10.2 HotFix 3 Configuration Guide.

Changes (10.2 HotFix 3)

Resource Kit Change

In the Resource Kit, the AssignUsersToDatabase script supports uppercase characters in user names.

Previously, the tool enforced lowercase characters only.
Chapter 2

New Features and Changes (10.2 HotFix 2)

This chapter includes the following topics:

- New Features (10.2 HotFix 2), 15
- Changes (10.2 HotFix 2), 18

New Features (10.2 HotFix 2)

Oracle WebLogic Server 12.2.1.3 Support

You can deploy MDM Multidomain Edition on Oracle WebLogic Server 12.2.1.3.

Oracle WebLogic T3S Protocol Support

You can use the Oracle WebLogic T3S protocol for communications between WebLogic and MDM Multidomain Edition.

For information about setting up WebLogic T3S, see the Informatica MDM Multidomain Edition Version 10.2 HotFix 2 Security Guide.

Process Server Properties

You can use the following Process Server properties to control the run-time behavior of the MDM Hub.

Configure the Process Server properties in the cmxcleanse.properties file.

- **cmx.server.stripDML.useDeleteInsertLock**
  
  Runs tokenization as part of a match job or a tokenization API call when a base object has a large number of records.

- **cmx.server.load.nonsmos.sourcesystem.enddate.like.smos**
  
  Sets the relationship end-date of a system that is not a State Management Override System (SMOS) to be the same as that of an SMOS.

For more information about setting Hub Server properties, see the Informatica MDM Multidomain Edition Version 10.2 HotFix 2 Configuration Guide.
Hub Server Properties

You can use the following Hub Server properties to control the run-time behavior of the MDM Hub.

Configure the Hub Server properties in the cmxserver.properties file.

**cmx.server.selective.bvt.enabled**

By default, a Put or Cleanse Put call applies BVT calculations to all fields in a record instead of updating only the fields 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 this property to true. Default is false.

**com.informatica.mdm.message.queue.max.bytes.threshold**

You can create a maximum limit for messages sent to the message queue. To specify the maximum size in bytes of messages sent to the message queue, set this property. If a message exceeds the specified size, the message is not sent and the message status is set to Failed.

**cmx.server.load.nonsmos.sourcesystem.enddate.like.smos**

Sets the relationship end-date of a system that is not a State Management Override System (SMOS) to be the same as that of an SMOS.

**cmx.server.override_orstitle**

When you log in to Informatica Data Director (IDD), the dashboard displays a long title of all the subject areas that have tasks for the current user. To display a preferred default title when you log in to IDD, set the cmx.server.override_orstitle property to a preferred title in the cmxserver.properties file.

For example, if you set the property to All Subject Areas, the title appears as **Tasks for All Subject Areas** onscreen.

**cmx.server.task.grouppotentialmergebyruleid**

Specifies that a manual match task that generates multiple matches creates multiple task entries with the same ROWID. You can set the property to false to create one task for each match entry.

**cmx.web.console.session.download.timeout**

Specifies the amount of time in minutes that you want to allow for launching the Hub Console after user authentication. Default is 5. The Java Network Launch Protocol (JNLP) resources that the Hub Console requires must download within the specified time. If the JNLP resources fail to download within the specified time, users must reauthenticate to download the JNLP resources.

For more information about setting Hub Server properties, see the Informatica MDM Multidomain Edition Version 10.2 HotFix 2 Configuration Guide.

Grouping of Hub Servers and Process Servers

You can create logical groups of Hub Servers and Process Servers by grouping Java Virtual Machines (JVMs). When you deploy the Hub Server and Process Server applications in a JVM group, all communication between the applications stays within the group. To group JVMs, you assign a group ID to each JVM in the MDM Hub environment.

For more information, see the Informatica MDM Multidomain Edition Version 10.2 HotFix 2 Installation Guide.
Global Properties

You can use the following global properties to control the run-time behavior of the Informatica Data Director application:

`deleteMovedRelInExplorerView`

Determines whether to delete the old relationship when you create a new relationship in Hierarchy Manager explorer view. Set to `false` to give the relationship an end date.

`enableSaveForPeriodDialogForHmRel`

Enables the effective period dialog box that appears when you update a Hierarchy Manager-enabled record in IDD. Set to `false` to disable the effective period dialog box.

`enableTaskAttachments`

Specifies whether users can attach files to tasks when using the legacy views and Informatica BPM (ActiveVOS) Subject Area Workflows with Data Director. Set to `true` to enable attachments and to show the File Attachments section in the Task Details dialog box and in the Create Task dialog box.

`hideSystemColumnsInResult`

Specifies whether the system columns appear in the search results. Set to `true` to hide the system columns in IDD search results.

`overrideTextAreaColumnOrder`

If you configure a column as a text area in a subject area, the text area column always appears at the bottom of the layout regardless of column order.

Set to `false` to ensure that text area columns appear in their specified order in a layout. Set to `true` to ensure that text area columns in a subject area columns appear at the bottom of the layout regardless of column order.

For more information, see the Informatica MDM Multidomain Edition Version 10.2 HotFix 2 Informatica Data Director Implementation Guide.

Save Handler User Exit Enhancement

In Save Handler user exits, you can use the `getChangedChildren` method to return modified or added child or grandchild records in a specified base object.

The user exit returns all records that were added, deleted, or updated. You can select the type of changes returned by the user exit. For example, you can request the user exit returns a combination of removed and updated children records.

Date Format Enhancement

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:

`<distribution directory>\hub\server\resources\entity\E360`

**Note:** If it does not already exist, create the `entity\E360` directory.

For more information, see the Informatica MDM Multidomain Edition Version 10.2 HotFix 2 Provisioning Tool Guide.
Start Workspace Enhancements

To help you prioritize tasks, the Start workspace has a **Create date** column that displays the date a task was created. The Start workspace also has an **Owner** column that displays the current owner of a task.

Configuration Automation Tools Enhancements

You can delete a single user in the MDM Hub Master Database, and synchronize a single user in the LDAP server with the MDM Hub roles.

You can use the following properties to automate user management:

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<th>Description</th>
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<td>MDM.new.user.email</td>
<td>Email address of the user that you want to create.</td>
</tr>
<tr>
<td>LDAP.attribute_name.for.user.email</td>
<td>Synchronizes the email address of a user from the LDAP server to the Operational Reference Store.</td>
</tr>
<tr>
<td>LDAP.attribute_name.for.username</td>
<td>Synchronizes attributes other than a common name or a user ID from the LDAP server to the Operational Reference Store.</td>
</tr>
<tr>
<td>LDAP.strip_slashes_from_usernames</td>
<td>Removes slashes from user names such as <code>Boyd\</code> to make the synchronization process work.</td>
</tr>
<tr>
<td>LDAP.cleanup.before.sync</td>
<td>Removes the users that are assigned in an Operational Reference Store before synchronizing users with roles.</td>
</tr>
</tbody>
</table>

Changes (10.2 HotFix 2)

User Exit Enhancement

Effective in version 10.2 HotFix 2, you can set effective periods in the Hierarchy Manager user exits.

Previously, you could only set effective periods in the Save Handler user exit.

Hub State Indicator is Not Putable

Effective as of version 10.1 HF2, the system column HUB_STATE_IND cannot be set as putable. The change was not announced in that release.

In the *Informatica MDM Multidomain Edition Version 10.2 HF2 Configuration Guide*, the list of exceptions for the property Putable is updated to include HUB_STATE_IND.
Chapter 3

New Features and Changes (10.2 HotFix 1)

This chapter includes the following topics:

- New Features (10.2 HotFix 1), 19
- Changes (10.2 HotFix 1), 23

New Features (10.2 HotFix 1)

History View Enhancements

Improved the usability of the History view by adding the following record fields:

- **Last Update Date**
  Displays the date the record was most recently updated.

- **Updated By**
  Displays the name of the user that updated the record.

Also, the change details in the History view include the first and last names of the user that made the change.

Previously, only the user name that was configured in the Hub Console appeared in the change details. To display more meaningful names in the change details, launch the Hub Console and update the user definitions to include the first and last names.

For more information about configuring users, see the Informatica MDM Multidomain Edition Version 10.2 HotFix 1 Configuration Guide.

Restricting Access to Business Entities

In the Provisioning tool, you can configure IDD applications to have business entities that are not visible to all users within the Entity 360 framework. If you want to hide specific business entities for security reasons, clear the **Visible** check box when you configure a business entity in an IDD application.

Previously, all business entities in an IDD application were visible to all users in the Entity 360 framework.

For more information about configuring IDD applications, see the Informatica MDM Multidomain Edition Version 10.2 HotFix 1 Provisioning Tool Guide.
Populating a Foreign Key Column

In the foreign key column for a business entity, you can browse and select a related business entity from a list of related business entities. The selected business entity must be searchable.

Previously, you had to manually enter the ROWID of a business entity in the foreign key column.

Additionally, when you generate a business entity schema, the Provisioning tool generates business entity lookup fields.

For more information about lookups, see the Informatica MDM Multidomain Edition Version 10.2 HotFix 1 Provisioning Tool Guide.

Performance Optimization of a SearchQuery Request

A SearchQuery request can return results that contain pending data changes to a base object.

Previously, query results timed out if a base object contained pending changes.

For more information, see the Informatica MDM Multidomain Edition Version 10.2 HotFix 1 Services Integration Framework Guide.

Batch Group Job History

In the Batch Group tool in the Hub Console, you can specify the number of days of history to process for a batch group job log. By default, logs for batch jobs consider all history, but you can reduce the number of days considered.

To specify the number of days of history to process for a batch group job log, set the cmx.server.jobControl.noOfDays property in the cmxserver.properties file.

For more information, see the Informatica MDM Multidomain Edition Version 10.2 HotFix 1 Configuration Guide.

Disabling Message Queue Polling

In a multinode environment, you can disable message queue polling for individual nodes. To disable message queue polling, set the mq.data.change.monitor.thread.start property to false in the cmxserver.properties and cmxcleanse.properties files.

You can confirm the operation of message queue polling while in DEBUG mode.

- On nodes where the value of mq.data.change.monitor.thread.start is false, the message Monitoring is disabled appears in the logs.
- On nodes where the value of mq.data.change.monitor.thread.start is true, the message Data changes monitoring started appears in the logs.

By default, message queue polling is enabled on all Java virtual machines where an MDM Hub EAR file is deployed. When you use multiple poller threads for data change monitoring and for publishing messages, the messages might not publish in the correct sequence. To control the sequence in which the messages are published, use a single poller thread.
Global Properties

You can use the following global properties to control the run-time behavior of the Informatica Data Director application:

bulkexportloadsize

Sets the maximum number of records to load for each thread when you export data to a Microsoft Excel file.

exportusingmultithread

Enables multithreading for data export to a Microsoft Excel file.

CompositePagerTotalRecords

Maximum number of ActiveVOS tasks that Informatica Data Director sorts. By default, Informatica Data Director sorts ActiveVOS tasks that are not case sensitive. If there are more than the value of CompositePagerTotalRecords to sort, case-sensitive sorting is database dependent. If the database is Microsoft SQL Server, the sorting is not case sensitive. If the database is Oracle or IBM DB2, the sorting is case sensitive.

convert2DigitYearTo4Digit

Enables the adjustment of a two-digit year entry to a four-digit year entry.

enableCreateBEMenuGrouping

Specifies whether you can define logical groups based on subject areas for the Create menu for business entities. The property is required if you have a large number of subject areas.

expandDropDownListShowFullValue

Enables expansion of the drop-down list in the Search tab for lookup records.

qrytaskidfromprocessidtotalretry

Number of attempts that Informatica Data Director makes to reload an ActiveVOS task.

qrytaskidfromprocessidwaitintrvlmillis

Number of milliseconds that Informatica Data Director waits before attempting to reload an ActiveVOS task.

proactiveMatchResultSort

Configures the sort order in which the potential matches appear in the Informatica Data Director application.

For more information, see the Informatica MDM Multidomain Edition Version 10.2 HotFix 1 Informatica Data Director Implementation Guide.

MDM Support Tools

The MDM Support tools are a collection of tools in the Hub Console. Use the tools to gather configuration information, track user configurations, replicate issues, run system health checks, and simulate matches.

The MDM Support tools contain the following tools:

Configuration Support Manager (CSM) Tool

The Configuration Support Manager (CSM) tool enables you to generate a CSM report. The report gathers configuration information from the Hub Server, Process server, and database server, which helps to troubleshoot issues.
User Migration Tool

The User Migration tool enables you to create or update multiple MDM Hub user accounts. You can also migrate user accounts and user-to-role assignments from one MDM Hub environment to another.

Match Analysis Tool

The Match Analysis tool assesses issues related to tokenization in the MDM Hub. The tool also provides a health check for the MDM Hub environment.

Match Simulator Tool

The Match Simulator tool tests undermatching and overmatching scenarios in the MDM Hub. The tool reduces the manual effort involved in troubleshooting matching issues.

For more information about the MDM Support tools, see the *Informatica MDM Multidomain Edition Version 10.2 HotFix 1 Resource Kit Guide*.

Performance Optimization of a Batch Unmerge Job

During an Unmerge batch job, the MDM Hub optimizes performance of the batch job by limiting BVT calculation of child foreign key records.

Previously, unmerge batch jobs of base objects with a large volume of cross-reference records and multiple child records could fail with an out of memory error message.

Option to Export a Single Record from Search Results

You can set up privileges for roles to only allow the export of a single record from the Informatica Data Director Search Results page.

Restricting low-level users to export only one record at a time prevents the inadvertent export of entire data sets. To restrict privileges to single record export, use the Roles tool in the Security Access Manager in the Hub Console. Enable the privilege EXPORT_PROFILE/ExecuteSingleRow for a selected role.

Previously, you could set privileges for roles to either allow export of selected rows or all rows.

For more information about roles and users, see the *Informatica MDM Multidomain Edition Version 10.2 HotFix 1 Configuration Guide*.

Business Entity Services Enhancements

The following business entity services are added to help manage pending merge tasks:

**PendingMerge**

Creates a pending merge task in the BPM workflow. Adds or removes _MTCH records from a pending merge task. Use to update a pending merge task.

**PromoteMerge**

Promotes a pending merge task based on the task data from the BPM workflow. Use to find all pending merge tasks for a specific interaction ID.

For more information, see the *Informatica MDM Multidomain Edition Version 10.2 HotFix 1 Business Entity Services Guide*. 
Message ID for Legacy XML JMS Messages

JMS messages in the legacy XML format include a MESSAGE_ID attribute.

For more information, see the Informatica MDM Multidomain Edition Version 10.2 HotFix 1 Configuration Guide.

WebSphere Application Server V8.5.5 Fix Pack 11 Support

You can deploy the MDM Multidomain Edition on WebSphere Application Server V8.5.5 Fix Pack 11.

Informatica AddressDoctor Version 5.10

Informatica MDM Multidomain Edition supports Informatica AddressDoctor version 5.10.

Internet Protocol Version 6


Changes (10.2 HotFix 1)

Proxy Role

Effective in version 10.2 HotFix 1, the Operational Reference Store that you create contains a proxy role. Previously, the proxy role had been deprecated. Due to demand, the proxy role has been reinstated.

Jaspersoft Removed from the Resource Kit

Effective in version 10.2 HotFix 1, Jaspersoft is not included in the MDM Multidomain Edition Resource Kit. Customers wishing to integrate dashboards into Informatica Data Director are recommended to rather use their corporate business intelligence tool of choice, or to use Highcharts or other charting tools. Any report that can be embedded in an iFrame can be embedded in a start page or Entity360 page in Informatica Data Director.

Allow Null Update Property

Effective in version 10.2 HotFix 1, all processes that calculate the best version of the truth treat null values the same way. Previously, some processes ignored the Allow Null Update property in the staging table and used the Apply Null Values property in the base object table.

When a source system contributes a null value for a column, a process refers to the setting of the Allow Null Update property for that column in the staging table.

• If the Allow Null Update property is enabled on the column, the process can write the null value to the base object record.
• If the Allow Null Update property is disabled on the column, the process downgrades the trust for the null value.
• If a process cannot resolve the setting of the **Allow Null Update** property in a staging table, the process uses the setting for the **Apply Null Values** property in the base object table.

For more information about the **Allow Null Update** property, see the *Informatica MDM Multidomain Edition Version 10.2 HotFix 1 Configuration Guide*.

**BeMDMWorkflow ActiveVOS Project**

Effective in version 10.2 HotFix 1, the BeMDMWorkflow project in the Resource Kit has changed to resolve an issue with task inbox filtering.

Previously, the BeMDMWorkflow project in the Resource Kit caused an issue with task inbox filtering.

If you upgrade from an earlier version, redeploy the BeMDMWorkflow project after you upgrade. If you have customized the workflows, use ActiveVOS Designer to add the following code within the TaskFilter complex type in the `cs.wsd1` file:

```
<xsd:element minOccurs="0" name="overdueOnly" type="xsd:boolean" />
```

For more information, see the *Informatica MDM Multidomain Edition 10.2 HotFix 1 Upgrade Guide*.

**Obsolete Process Server Properties**

Effective in version 10.2 HotFix 1, the following Process Server properties are obsolete:

<table>
<thead>
<tr>
<th>Obsolete Property</th>
<th>Change in Behavior for Version 10.2 HotFix 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>com.informatica.mdm.overrideNullable</code></td>
<td>When a source system contributes a null value, you cannot override how a process calculates the most trustworthy value. The method that a process uses to handle null values has changed. For more information, see &quot;Allow Null Update Property&quot; on page 23.</td>
</tr>
<tr>
<td><code>com.informatica.mdm.promoteNullable</code></td>
<td>When a source system that contributes a null value for a column has multiple staging tables, processes ignore the <strong>Allow Null Update</strong> property in all the staging tables. Instead, processes use the setting of the <strong>Apply Null Values</strong> property in the base object record.</td>
</tr>
</tbody>
</table>

If an obsolete property remains in the properties file after you upgrade, the property is ignored. You can safely remove the property from the file.
Chapter 4

New Features and Changes (10.2)

This chapter includes the following topics:

- New Features (10.2), 25
- Changes (10.2), 32

New Features (10.2)

Hub Server Properties for Informatica Data Director

You can add the following property to the cmxserver.properties file to configure Informatica Data Director:

```text
cmx.e360.match_xref.view.enabled
```

Determines if the Entity 360 framework Matching Records view and Cross-reference view appear. If `true`, the Entity 360 framework view appears. If `false`, the legacy views appear. During installation, the default is `true`. During upgrade of existing software, the default is `false`.

Note: The Entity 360 framework Cross-reference view supports tree unmerge. For linear unmerge support, continue to use the legacy Cross-reference view.

Password Hashing

The MDM Hub uses a password hashing method to protect user passwords. The MDM Hub master database stores the user passwords in hashed form. When users log in to the MDM Hub, their request is encrypted with a combination of public and private keys. To authenticate users, the MDM Hub decrypts their request and compares the value with the hashed value retrieved from the master database.

The hashing algorithm is a concatenation of the password string and multiple randomly generated values. The default algorithm used for password hashing is SHA3. However, you can also configure a custom hashing algorithm. You configure the hashing implementation class during installation of the MDM Hub. Alternatively, you can configure the hashing implementation class through the Hub Server properties in the cmxserver.properties file.

Password hashing replaces Blowfish encryption in the MDM Hub.

Security Configuration Utility

The security configuration utility helps you to manage some of the security settings in an MDM Hub implementation. With the utility, you can reset the passwords of MDM Hub users, change the hashing algorithm used in the MDM Hub, and change the certificate provider. You can also use the security configuration utility to update the customer hashing key that is used to create the hashing algorithm.

To get the security configuration utility, contact Informatica Global Customer Support.

Provisioning Tool Enhancement

The user interface of the Provisioning tool is enhanced to facilitate ease of use. The user interface includes simple user input fields that replace complex XML configurations.

For more information about the Provisioning tool, see the Informatica MDM Multidomain Edition Version 10.2 Provisioning Tool Guide.

Layout Designer

You can use the Layout Designer in the Provisioning tool to design layouts for the Informatica Data Director Start page and the Entity views. To design a layout, you select a layout template in the Layout Designer, and then drag and assemble the components that you want in the layout.

For more information about the Layout Designer, see the Informatica MDM Multidomain Edition Version 10.2 Provisioning Tool Guide.

DaaS Provider Component

Use the DaaS Provider component to search an external data service for information about a business entity. You require an existing relationship with the third-party data as a service provider.

Integration with Data as a Service Providers

You can enrich and augment your business entity data with the data from third-party data providers. You can integrate the MDM Hub with Data as a Service (DaaS) providers to access data that is reliable, accurate, and complete.

Use the Provisioning tool to configure the integration with the DaaS providers. You can specify the business entity fields that you want to populate with the data from the DaaS providers.

In the Informatica Data Director, use the DaaS Providers component to request a DaaS provider for data. You can search for records, compare the results, and select the entities that you want to convert and merge into a business entity record.

For more information about configuring the integration with DaaS providers, see the Informatica MDM Multidomain Edition Version 10.2 Provisioning Tool Guide.

Many-to-Many Relationships

You can use the Provisioning tool to configure many-to-many relationships between business entities. You can add additional attributes associated with a business entity relationship.

In the Informatica Data Director, use the Related Records component to add, edit, and delete relationships for business entities.
For more information about configuring many-to-many relationships, see the *Informatica MDM Multidomain Edition Version 10.2 Provisioning Tool Guide*.

**External Callouts for Business Entity Services**

You can configure external callouts for business entity services to execute custom logic, validation, and transformation of business entity data. You can configure callouts for specific steps in the business entity services.

For more information about configuring external callouts, see the *Informatica MDM Multidomain Edition Version 10.2 Provisioning Tool Guide*.

**Cross-reference Records View**

Use the Cross-reference Records view to establish the best version of the truth for business entities. The view is built on the Entity 360 framework.

Data stewards can use the Cross-reference Records view to examine the lineage of the full business entity, including all child entities, and can now unmerge child records. Data stewards can then make adjustments to ensure the master record genuinely represents the best version of the truth.

If you install MDM Multidomain Edition version 10.2, the view is enabled by default. If you upgrade from a previous version, set the `cmx.e360.match_xref.view.enabled` property in the `cmxserver.properties` file to `true` to enable the view. The view supports tree unmerge. For linear unmerge support, continue to use the IDD XREF view. During installation, the default is set to `true`. During upgrade of existing software, the default is set to `false`.

For more information, see the *Informatica MDM Multidomain Edition Version 10.2 Informatica Data Director User Guide*.

**History View**

Use the History view to review changes to the data in chronological order. The view is built on the Entity 360 framework.

The History view displays a chronology of data changes over the lifespan of the business entity. You can view the data that existed in the business entity at any point in time in the chronology. View the data before a data event and after a data event to determine if the event caused an inappropriate data change. A data event is any action that changes the data in a business entity, such as an edit or a merge operation.

For more information, see the *Informatica MDM Multidomain Edition Version 10.2 Informatica Data Director User Guide*.

**Matching Records View**

Use the Matching Records view to identify and resolve duplicate records. The view is built on the Entity 360 framework.

By default, the Matching Records view contains the target business entity plus any business entities that satisfied a match rule. You can also search for business entities that did not satisfy a match rule, and add those entities to the view.

Compare the root records of the similar business entities and select the ones that you think are duplicates. Then compare the child records and descendant records in the business entities. If you find duplicate sibling records at any level, you can select the records to include in the merge process. Before you start the merge process, you can preview the merged business entity.
Note: If you need to override a value, edit the business entity in the Cross-reference Records view. Overrides are not available from the Matching Records view.

If you install MDM Multidomain Edition version 10.2, the view is enabled by default. If you upgrade from a previous version, set the cmx.e360.match_xref.view.enabled property in the cmxserver.properties file to true to enable the view.

For more information, see the Informatica MDM Multidomain Edition Version 10.2 Informatica Data Director User Guide.

Merge Cascade for Descendant Records

When you use business entity model, the merge process runs a merge cascade on the child and descendant records.

- At the root level, the merge process merges the data in the root records of the business entities.
- At a child level, when the parent-to-child relationship is a one-to-one relationship, the merge process merges the sibling child records. After the merge process handles a child record, it tries to merge each level of descendant records using the same merge strategy.
- At any level, when the parent-to-child relationship is a one-to-many relationship, you can select sibling records to merge in the Matching Records view.

The merged business entity contains the merged root record, the merged sibling records, and all the child records and descendant records that were not merged.

For more information, see the description of the merge process in the Informatica MDM Multidomain Edition Version 10.2 Informatica Data Director User Guide.

Timeline View

You can use the Timeline view to view changes to data over a period of time. The Timeline view is available only to customers who upgraded from the subject area model to the business entity model.

For more information about the Timeline view, see “Investigating Data Change Events for Effective Periods” in the Informatica MDM Multidomain Edition Version 10.2 Informatica Data Director User Guide.

Business Entity Services for DaaS

You can use business entity services to request data from a DaaS provider and create business entity records. You can import business entity data and update changes to the business entity data. Use REST APIs to read, search, import, and update business entity data.

For more information about the REST APIs for DaaS, see the Informatica MDM Multidomain Edition Version 10.2 Business Entity Services Guide.

Business Entity Services for Managing Relationships

You can use business entity services to manage business entity relationships. Use REST APIs to create, read, update, and delete relationships between business entities.

For more information about the REST APIs to manage relationships, see the Informatica MDM Multidomain Edition Version 10.2 Business Entity Services Guide.
Enhancements for Business Entity Services

With the introduction of the new views based on the Entity 360 framework, the business entity services have been enhanced to support the views and new functionality.

The following table summaries the enhancements to the business entity services:

<table>
<thead>
<tr>
<th>Business Entity Service</th>
<th>Elements and Attributes</th>
<th>Request</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>MergeBE</td>
<td>- MERGE element</td>
<td>- Control how descendant records merge</td>
<td>- Business entity data for the specified date</td>
</tr>
<tr>
<td></td>
<td>- contentMetadata=MERGE</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- contentMetadata=BVT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PreviewMergeBE</td>
<td>- contentMetadata=[MERGE</td>
<td>BVT]</td>
<td>- Control when descendant records match</td>
</tr>
<tr>
<td></td>
<td>- MERGE element</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ReadBE</td>
<td>- contentMetadata=BVT</td>
<td>- Specify which record wins in a merge</td>
<td>- Business entity data for the specified date</td>
</tr>
<tr>
<td></td>
<td>- historyDate</td>
<td>- Specify the date for which you want to retrieve history data</td>
<td></td>
</tr>
<tr>
<td>WriteBE</td>
<td>- MATCH element</td>
<td>- Control when descendant records match</td>
<td>- Business entity data for the specified date</td>
</tr>
<tr>
<td></td>
<td>- MERGE element</td>
<td>- Control when descendant records merge</td>
<td></td>
</tr>
<tr>
<td>GetRelated</td>
<td>- entityLabel</td>
<td>- Filter by entity label</td>
<td>- List of records related to a specified root record based on the relationships configured and the filters applied</td>
</tr>
<tr>
<td></td>
<td>- relationshipLabel</td>
<td>- Filter by relationship label</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- entityType</td>
<td>- Filter by comma-separated list of entities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- relationshipType</td>
<td>- Filter by comma-separated list of relationships</td>
<td></td>
</tr>
<tr>
<td>ListHistoryEvents</td>
<td>- historyPeriod</td>
<td>- Specify the date range for which you want to retrieve the data</td>
<td>- Business entity data for the specified date</td>
</tr>
<tr>
<td></td>
<td>- granularity</td>
<td>- Specify level of detail to group history</td>
<td>- Groups of history events</td>
</tr>
<tr>
<td>GetHistoryEventDetails</td>
<td>- eventID</td>
<td>- Specify ID of the history event</td>
<td>- History event details</td>
</tr>
</tbody>
</table>

Extract BVT Versions

You can get the best version of the truth for a range of effective periods for timeline-enabled base objects. Run the Extract BVT Versions batch job in the Batch Viewer tool in the MDM Hub Console, or run the executeBatchExtractBVTVersions SIF API.

For more information, see the Informatica MDM Multidomain Edition Configuration Guide.
Dirty Index Indicator

When you update the searchable field properties, some of the indexes might become outdated and dirty. You can run the Initially Index Smart Search Data batch job to clean the outdated indexes. The Batch Viewer tool of the MDM Hub Console displays a warning icon for a child business entity node when the node requires reindexing.

For more information about the warning icon, see the Informatica MDM Multidomain Edition Configuration Guide.

Sorting the Search Results

When you use the Search Business Entity REST web service, you can sort the search results in the ascending or descending order by multiple fields.

For more information about the Search Business Entity REST web service, see the Informatica MDM Multidomain Edition Provisioning Tool Guide.

WebSphere Application Server V8.5.5 Fix Pack 8 Support

You can deploy the MDM Multidomain Edition on WebSphere Application Server V8.5.5 Fix Pack 8.

Oracle GoldenGate 12 Support

Use Oracle GoldenGate version 12.1.2.1 with MDM Multidomain Edition.

If you have an Oracle environment and upgrade from 9.0.1 or 9.1.0 to a more recent version of MDM Multidomain Edition, you must update the Oracle GoldenGate software. For more information, see the Informatica MDM Multidomain Edition Version 9.7.1 HotFix 7 Upgrading with Zero Downtime Guide.

ActiveVOS Database Connection Details

The ActiveVOS® database connection is validated when you install or upgrade embedded ActiveVOS.

When you install or upgrade embedded ActiveVOS during the MDM Multidomain Edition installation or upgrade, ActiveVOS database connection details are saved in the build.properties file.

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.schema=AVOS
activevos.db.jdbc.url=jdbc:db2://localhost:50000/INFA102
activevos.b4p.url=http://localhost:9080/active-bpel/services/AeB4PTaskClient-
taskOperations
```
execution logic. To use external callouts, you must build the `bes-external-call.ear` file and deploy it on the application server.

The BESExternalCall folder contains a sample `custom-logic-service.wsdl` file with the XML Schema Definition (XSD) for the external callouts. Use the WSDL file to understand the external services, operations, methods, and the data types that the service methods exchange. Use the Ant build file, `build.xml`, in the BESExternalCall folder to build the `bes-external-call.ear` file.


**Documentation**

This section describes significant changes to the MDM Multidomain Edition documentation set in version 10.2.

**Informatica MDM Multidomain Edition Infrastructure Planning Guide - NEW**

The Informatica MDM Multidomain Edition Infrastructure Planning Guide contains information required to plan the infrastructure and the architecture of the MDM Hub environment. The guide contains sample installation topologies to help you understand and decide on an installation topology. The guide is intended for use by infrastructure planners, Master Data Management solution architects, and business managers.

**Informatica MDM Multidomain Edition Informatica Data Director User Guide - RESTRUCTURED**

The guide has two versions:

- For new customers, the Informatica MDM Multidomain Edition Informatica Data Director User Guide describes the views that are based on the Entity 360 framework and the business entity data model.
- For upgrading customers, the Informatica MDM Multidomain Edition Informatica Data Director User Guide (with Legacy Views) contains all the content from the Informatica MDM Multidomain Edition Informatica Data Director User Guide plus the content about the legacy IDD views that are based on the subject area data model.


The Informatica MDM Multidomain Edition Informatica Entity 360 Framework Guide is retired. The Informatica MDM Multidomain Edition Provisioning Tool Guide contains information about the features that were described in this guide.

**Informatica Platform Log**

The MDM Hub generates `informatica-mdm-platform.log`, which stores configuration log messages for Informatica platform processes.

The `informatica-mdm-platform.log` file appears in the following directory:

`<MDM Hub installation directory>/hub/server/logs`
Changes (10.2)

License File

Effective in version 10.2, the license file for MDM Multidomain Edition has been updated.

**Note:** If you upgrade, request the latest license file when you request the software for MDM Multidomain Edition version 10.2.

Email Address for MDM Hub Users

Effective in version 10.2, MDM Hub users must supply a valid email address. Previously, an email address was optional.

**Note:** If you upgrade, ensure that you associate a valid email address with previously created users in the Hub Console.

For more information about editing supplemental user information, see the *Informatica MDM Multidomain Edition Version 10.2 Security Guide*.

Preserving Source System Keys

Effective in version 10.2, when the option to preserve source system keys is enabled, source system keys are preserved for initial data loads and for all subsequent data loads.

Previously, when the option to preserve source system keys was enabled, source system keys were preserved for initial data loads only.

Metadata Caching

Effective in version 10.2, the MDM Hub uses Infinispan for metadata caching.

Previously, the MDM Hub used JBoss Cache for metadata caching.

Layout Editor

Effective in version 10.2, in the Provisioning tool, the Layout Editor is replaced by the Layout Designer.

For more information about the Layout Designer, see the *Informatica MDM Multidomain Edition Version 10.2 Provisioning Tool Guide*.

Unmerge

Effective in version 10.2, if you configure a role to trigger a task and configure the same role to process the task, an error occurs and the task is not processed.

Merge Tasks

Effective in version 10.2, a new Matching Records view is available to process merge tasks that use the Business Entity-based
If you use the Subject Area–based ActiveVOS workflow adapter, use the legacy Matches view and the legacy XREF view. Set `cmx.e360.match_xref.view.enabled` to `false` to use these legacy views to create tasks. When you upgrade to version 10.2, `cmx.e360.match_xref.view.enabled` is `false` by default.

Any merge tasks created prior to version 10.2 open in the legacy Match view, regardless of the `cmx.e360.match_xref.view.enabled` setting. If you enable the Entity 360 framework, merge tasks that are created in version 10.2 are opened in the Entity 360 framework Matching Records view.

Any merge tasks created prior to version 10.2 open in the legacy Match view. If you enable the Entity 360 framework, merge tasks that are created in version 10.2 are opened in the Entity 360 framework Matching Records view.

Transformations

Effective in version 10.2, you cannot configure the platform transformations to cleanse, standardize, and validate data in business entities.

Previously, you could configure the platform transformations to cleanse, standardize, and validate data in business entities.

If you upgrade from an earlier version, to use the platform transformations that you configured, add an IDQ library in the Cleanse Functions tool of the MDM Hub Console. You can then use the cleanse functions in the library in place of the platform transformations. The cleanse functions in the IDQ library can call the web services associated with the platform transformations.

Resource Kit

Effective in version 10.2, to help build custom web services and workflows, the Resource Kit contains the following additional files:

- The `informatica-bpm-adapter.jar` and `siperian-server-pkiutil.jar` files are additional SiperianClient library classes that you can use to build custom web services that interact with the MDM Hub.
- The `avossdk.zip` file contains the ActiveVOS Orchestration project and an associated library. If you want to develop a workflow for the MDM Hub, import the Orchestration project into ActiveVOS Designer. This creates a template workflow project in which you can implement custom workflows.

For more information, see the **Informatica MDM Multidomain Edition Version 10.2 Resource Kit Guide**.

Business Entities in the Pending State

Effective in version 10.2, when you run a smart search, the search results include business entities that have records in the pending state. The pending state means that previous changes are going through a review and approval process.

In IDD, in the search results, business entities with pending changes have the prefix [Pending] in the Description field. If you open a pending business entity in a view, a pending icon appears near the business entity name. You cannot update a business entity that is in the pending state.

MDM App for iPads and iPhones is Deprecated

The Informatica MDM Mobile Multidomain Edition for Apple® devices, also known as the MDM app, is deprecated. To make it easier for customers and partners to create mobile MDM sites or apps in a world of device diversity, we are creating responsive interfaces built on modern web standards such as HTML5, Angular.js, and Bootstrap.
**Business Entity Schema Generation**

Effective in version 10.2, the business entity schema is generated when users click the **Publish** button in the Provisioning tool.

Previously, users had to click the **Generate BES** button to generate the business entity schema before clicking the **Publish** button.

For more information, see the *Informatica MDM Multidomain Edition Provisioning Tool Guide*.

**Proxy Role**

The proxy role is not supported in version 10.2. A proxy role is a pre-defined role that you can use to configure a proxy user. The proxy role has read and execute privileges. You cannot change these privileges.

If you require a proxy role, you must apply 10.2 EBF 2 or 3, or upgrade to 10.2 HotFix 1.
Part II: Version 10.1

This part contains the following chapters:

- New Features and Enhancements (10.1 HotFix 5), 36
- New Features and Changes (10.1 HotFix 4), 40
- New Features and Changes (10.1 HotFix 3), 42
- New Features and Changes (10.1 HotFix 2), 44
- New Features and Changes (10.1 HotFix 1), 47
- New Features and Changes (10.1), 51
Chapter 5

New Features and Enhancements (10.1 HotFix 5)

This chapter includes the following topics:

- New Features (10.1 HotFix 5), 36
- Changes (10.1 HotFix 5), 38

New Features (10.1 HotFix 5)

This section describes new features in version 10.1 HotFix 5.

Informatica MDM Hub

This section describes new features and enhancements to Informatica MDM Hub.

Grouping Hub Servers and Process Servers

You can configure a logical grouping of Hub Servers and Process Servers. If you group a set of Hub Servers and Process Servers together, all communication between the servers stays within the group. To group a Hub Server and Process Server together, assign a group ID to each Java Virtual Machine in the MDM Hub implementation.

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Installation Guide and the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Upgrade Guide.

Informatica ActiveVOS Version 9.2.4.3

Informatica MDM version 10.0.0 HotFix 5 supports Informatica ActiveVOS version 9.2.4.3.

Hub Server Properties

You can use the following Hub Server properties to control the run-time behavior of the MDM Hub.

Configure the Hub Server properties in the cmxserver.properties file.
cmx.bes.write.alwaystokenize

By default, the MDM Hub does not tokenize updated records in the following scenarios:

• If you update the parent record or child record for an exact match column.
• If you update a child column that is configured as an exact match column in the parent table.

To specify that the MDM Hub always tokenizes updated records in these scenarios, set this property to true. Default is false.

cmx.server.selective.bvt.enabled

By default, a Put or Cleanse Put call applies BVT calculations to all fields in a record instead of updating only the fields 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 this property to true. Default is false.

com.informatica.mdm.message.queue.max.bytes.threshold

You can create a maximum limit for messages sent to the message queue. To specify the maximum size in bytes of messages sent to the message queue, set this property. If a message exceeds the specified size, the message will not be sent and the message status set to Failed.

For more information about setting Hub Server properties, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Configuration Guide.

Process Server Property for Tokenization in Match Jobs

You can specify that the MDM Hub runs tokenization when there is a match job or a tokenization API call on a large number of records. Set the cmx.server.stripDML.useDeleteInsertLock Process Server property to run tokenization during a match job on a larger number of records.

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Configuration Guide.

Informatica Data Director

This section describes new features and enhancements to Informatica Data Director.

Save Handler User Exit Enhancement

In Save Handler user exits, you can use the getChangedChildren method to return modified or added child or grandchild records in a specified base object.

The user exit returns all records that were added, deleted, or updated. You can select the type of changes returned by the user exit. For example, you can request the user exit returns a combination of removed and updated children records.

Global Properties

You can use the following global properties to control the run-time behavior of the Informatica Data Director application:

deletemovedRelInExplorerView

Determines whether to delete the old relationship when you create a new relationship in Hierarchy Manager explorer view. Set to false to give the relationship an end date.
enableSaveForPeriodDialogForHmRel
   Enables the effective period dialog box that appears when you update a Hierarchy Manager-enabled record in IDD. Set to false to disable the effective period dialog box.

hideSystemColumnsInResult
   Specifies whether the system columns appear in the search results. Set to true to hide the system columns in IDD search results.

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Informatica Data Director Implementation Guide.

Date Format Enhancement
   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:
   
   <distribution directory>\hub\server\resources\entityE360

   Note: If it does not already exist, create the entityE360 directory.

   For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Informatica Provisioning Tool Guide.

Changes (10.1 HotFix 5)
   This section describes changes in version 10.1 HotFix 5.

Proxy Role
   Effective in version 10.0.0 HotFix 5, the Operational Reference Store that you create contains a proxy role. Previously, the proxy role had been deprecated. Due to demand, the proxy role has been reinstated.

User Exit Enhancement
   Effective in version 10.0.0 HotFix 5, you can set effective periods in Hierarchy Manager user exits. Previously, you could only set effective periods in the Save Handler user exit.

Changes to the Guides
   Effective in version 10.0.0 HotFix 5, all the guides in the Informatica MDM Multidomain Edition documentation set reflect the new Informatica brand and have an updated copyright page.

   The following guides contain content related to new and changed features in this release:
   
   • Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Release Notes
   • Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Release Guide
   • Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Installation Guide
   • Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Upgrade Guide
• Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Configuration Guide
• Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Provisioning Tool Guide
• Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Informatica Data Director Implementation Guide
• Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Resource Kit Guide

The remaining guides in the documentation set are unchanged from earlier releases and retain their version numbers.
CHAPTER 6

New Features and Changes (10.1 HotFix 4)

This chapter includes the following topics:

- New Features (10.1 HotFix 4), 40
- Changes (10.1 HotFix 4), 41

New Features (10.1 HotFix 4)

This section describes new features in version 10.1 HotFix 4.

Informatica MDM Hub

This section describes new features and enhancements to Informatica MDM Hub.

Batch Group Job History

In the Batch Group tool in the Hub Console, you can specify the number of days of history to process for a batch group job log. By default, logs for batch jobs consider all history, but you can reduce the number of days considered.

To specify the number of days of history to process for a batch group job log, set the cmx.server.jobControl.noOfDays property in the cmxserver.properties file.

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 4 Configuration Guide.

Informatica Data Director

This section describes new features and enhancements to Informatica Data Director.
Global Properties

You can use the following global properties to control the run-time behavior of the Informatica Data Director application:

**CompositePagerTotalRecords**

Maximum number of ActiveVOS tasks that Informatica Data Director sorts case-insensitively. By default, Informatica Data Director sorts ActiveVOS tasks case insensitively. If there are more than the value of `CompositePagerTotalRecords` to sort, case-sensitive sorting is database dependent. If the database is Microsoft SQL Server, the sorting is case insensitive. If the database is Oracle or IBM DB2, the sorting is case sensitive.

**convert2DigitYearTo4Digit**

Enables the adjustment of a two-digit year entry to a four-digit year entry.

**expandDropDownListShowFullValue**

Enables expansion of the drop-down list in the `Search` tab for lookup records.

**qrytaskidfromprocessidtotalretry**

Number of attempts that Informatica Data Director makes to reload an ActiveVOS task.

**qrytaskidfromprocessidwaitintrvlmillis**

Number of milliseconds that Informatica Data Director waits before attempting to reload an ActiveVOS task.

**proactiveMatchResultSort**

Configures the sort order in which the potential matches appear in the Informatica Data Director application.

For more information, see the *Informatica MDM Multidomain Edition Version 10.0.0 HotFix 4 Informatica Data Director Implementation Guide*.

History View Enhancements

Improved the usability of the History view by adding the following fields to a record:

**Last Update Date**

Displays the date the record was most recently updated.

**Updated By**

Displays the name of the user that updated the record.

Start Workspace Enhancements

To help you prioritize tasks, the Start workspace has a **Create date** column that displays the date a task was created. The Start workspace also has an **Owner** column that displays the current owner of a task.

Changes (10.1 HotFix 4)

There are no other changes for version 10.1 HotFix 4.
New Features and Changes (10.1 HotFix 3)

This chapter includes the following topics:

- New Features (10.1 HotFix 3), 42
- Changes (10.1 HotFix 3), 43

New Features (10.1 HotFix 3)

This section describes new features in version 10.1 HotFix 3.

Informatica MDM Hub

This section describes new features and enhancements to Informatica MDM Hub.

Timeline Extract Job

The timeline extract job can keep the history of rejected records. When you run the timeline extract job, the MDM Hub sends the rejected records to a reject table. To process the rejected records, run the timeline extract job again.

For more information, see "Using Timeline Extract" in the Informatica MDM Multidomain Edition Version 10.1 HotFix 3 Configuration Guide.

Hub Server Property for Cloud Deployments

You can specify the communication protocol to use with the Java Network Launch Protocol (JNLP) file that launches the MDM Hub Console in a cloud deployment. You set the cmx.appserver.jnlp.protocol Hub Server property to specify the communication protocol.

For more information, see the Informatica MDM Multidomain Edition Version 10.1 HotFix 3 Configuration Guide.

Informatica Data Director

This section describes new features and enhancements to Informatica Data Director.
Language Display

You can configure Informatica Data Director to display custom action names in the More Actions menu to appear in a localized language. To localize the custom action names, add the custom action name and localized value pairs to the internationalization message bundles.

For more information, see the Informatica MDM Multidomain Edition Version 10.1 HotFix 3 Informatica Data Director Implementation Guide.

Global Properties

You can use the following global properties to control the run-time behavior of the Informatica Data Director application:

bulkexportloadszie

Sets the maximum size of the load for each thread when you export data to a Microsoft Excel file.

exportusingmultithread

Enables multithreading for data export to a Microsoft Excel file.

enableCreateBEMenuGrouping

Specifies whether you can define logical groups based on subject areas for the Create menu for business entities. The property is required if you have a large number of subject areas.

For more information, see the Informatica MDM Multidomain Edition Version 10.1 HotFix 3 Informatica Data Director Implementation Guide.

Multiple Task Actions Support

You can configure an ActiveVOS workflow to allow reviewers to perform multiple actions on a task without closing the Task tab. For each task action where you want to support multiple actions without closing the Task tab, set the closeTaskViewproperty to false.

For more information, see the Informatica MDM Multidomain Edition Version 10.1 HotFix 3 Informatica Data Director Implementation Guide.

Changes (10.1 HotFix 3)

This section describes changes in version 10.1 HotFix 3.

BeMDMWorkflow ActiveVOS Project

Effective in version 10.1 HotFix 3, the BeMDMWorkflow project in the Resource Kit has changed to resolve an issue with task inbox filtering.

Previously, the BeMDMWorkflow project in the Resource Kit caused an issue with task inbox filtering.

If you upgrade from an earlier version, redeploy the BeMDMWorkflow project after you upgrade. If you have customized the workflows, use ActiveVOS Designer to add the following code within the TaskFilter complex type in the cs.wsd1 file:

```xml
<xsd:element minOccurs="0" name="overdueOnly" type="xsd:boolean" />
```

For more information, see the Informatica MDM Multidomain Edition 10.1 HotFix 3 Upgrade Guide.
New Features and Changes (10.1 HotFix 2)

This chapter includes the following topics:

- New Features (10.1 HotFix 2), 44
- Changes (10.1 HotFix 2), 45

New Features (10.1 HotFix 2)

This section describes new features in version 10.1 HotFix 2.

Informatica MDM Hub

This section describes new features and enhancements to Informatica MDM Hub.

Specifying Primary Key Columns for Hard Delete Detection

When you create a unique primary key by concatenating values from multiple source columns, the hard delete detection (HDD) process looks at the inputs to the function and monitors all the input source columns. You can now override this behavior by listing the columns to monitor in the hard delete detection repository table. For example, you create a custom function with many inputs. Within the custom function, some of the source columns are inputs to a concatenate function that creates the unique primary key. Other source columns pass through the custom function unchanged. The HDD process cannot see what happens within a custom function. Therefore, the HDD process monitors all the inputs to the custom function. You want the HDD process to monitor only the source columns that contribute to the primary key.

To focus the HDD process on the subset of source columns that contribute to the primary key, configure the C_REPOS_EXT_HARD_DEL_DETECT repository table. Add an HDD_LANDING_PKEY_COLUMNS column, and insert a comma-separated list of the column names.

For more information, see "Specifying the Primary Key Columns for Hard Delete Detection" in the Informatica MDM Multidomain Edition Version 10.1 HotFix 2 Configuration Guide

Informatica Data Director

This section describes new features and enhancements to Informatica Data Director.
Search Queries
You can build search queries to include package columns that are not part of a subject area. Search results can display all the package columns that you use to build a query.

Changes (10.1 HotFix 2)
This section describes changes in version 10.1 HotFix 2.

Allow Null Update Property
Effective in version 10.1 HotFix 2, all processes that calculate the best version of the truth treat null values the same way. Previously, some processes ignored the Allow Null Update property in the staging table and used the Apply Null Values property in the base object table.

When a source system contributes a null value for a column, a process refers to the setting of the Allow Null Update property for that column in the staging table.

- If the Allow Null Update property is enabled on the column, the process can write the null value to the base object record.
- If the Allow Null Update property is disabled on the column, the process downgrades the trust for the null value.
- If a process cannot resolve the setting of the Allow Null Update property in a staging table, the process uses the setting for the Apply Null Values property in the base object table.

For more information about the Allow Null Update property, see the Informatica MDM Multidomain Edition Version 10.1 HotFix 2 Configuration Guide.

Obsolete Properties
Effective in version 10.1 HotFix 2, the following Hub Server properties are obsolete:

<table>
<thead>
<tr>
<th>Obsolete Property</th>
<th>Change in Behavior for Version 10.1 HotFix 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>cmx.server.batch.load.analyze_threshold_rate</td>
<td>There is no equivalent in this version.</td>
</tr>
</tbody>
</table>

Effective in version 10.1 HotFix 2, the following Process Server properties are obsolete:

<table>
<thead>
<tr>
<th>Obsolete Property</th>
<th>Change in Behavior for Version 10.1 HotFix 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>com.informatica.mdm.overrideNullable</td>
<td>When a source system contributes a null value, you cannot override how a process calculates the most trustworthy value. The method that a process uses to handle null values has changed. For more information, see “Allow Null Update Property” on page 45.</td>
</tr>
<tr>
<td>com.informatica.mdm.promoteNullable</td>
<td>When a source system that contributes a null value for a column has multiple staging tables, processes ignore the Allow Null Update property in all the staging tables. Instead, processes use the setting of the Apply Null Values property in the base object record.</td>
</tr>
</tbody>
</table>
If an obsolete property remains in the properties file after you upgrade, the property is ignored. You can safely remove the property from the file.

**Hub State Indicator is Not Putable**

Effective in version 10.1 HF2, the system column HUB_STATE_IND cannot be set as putable.
This chapter includes the following topics:

- New Features (10.1 HotFix 1), 47
- Changes (10.1 HotFix 1), 49

New Features (10.1 HotFix 1)

This section describes new features in version 10.1 HotFix 1.

Informatica MDM Hub

This section describes new features and enhancements to Informatica MDM Hub.

Enhancements to the Read and List Business Entity Services

Effective in version 10.1 HotFix 1, you can specify the sort order for the child elements when you use the Read business entity service to retrieve the details of a root record. You can specify the sort order when you use the List business entity service to retrieve lookup values.

Use the parameter order to specify the sort order.

For more information about the order parameter, see the Informatica MDM Multidomain Edition 10.1 HotFix 1 Business Entity Services Guide.

Option to Suppress Links in the Business Entity Services Responses

Effective in version 10.1 HotFix 1, you can suppress parent-child links in the responses of the Read and Search business entity services. Use the parameter suppressLinks to suppress the links in the responses.

For more information about the suppressLinks parameter, see the Informatica MDM Multidomain Edition 10.1 HotFix 1 Business Entity Services Guide.

Allow Null Update Property

Effective in version 10.1 HotFix 1, you can change how the load process sets the Allow Null Update property when there is a mixture of values for the Allow Null Update property in the contributing staging tables. You
can also control how the load process sets the Allow Null Update property for multiple staging tables with the same source system.

For more information, see "Customize the Behavior of the Allow Null Update Property" in the Informatica MDM Multidomain Edition Version 10.1 HotFix 1 Configuration Guide.

Informatica Data Director

This section describes new features and enhancements to Informatica Data Director.

Global Properties

Effective in version 10.1 HotFix 1, you can use the following global property to control the run-time behavior of the Informatica Data Director application:

`showShadowColumns`

Specifies whether to show shadow columns in the Cross-reference View.

For more information, see the Informatica MDM Multidomain Edition Version 10.1 HotFix 1 Informatica Data Director Implementation Guide.

User Authentication and Password Encryption

Effective in version 10.1 HotFix 1, you can configure authentication for URLs in Informatica Data Director. When authentication is enabled, when users log in, they pass their user name and password as part of the URL in Informatica Data Director. You can also configure Informatica Data Director to pass the user name and password in an encrypted format.

For more information, see the Informatica MDM Multidomain Edition Version 10.1 HotFix 1 Informatica Data Director Implementation Guide and the Informatica MDM Multidomain Edition Version 10.1 HotFix 1 Configuration Guide.

Entity View Enhancements

Improved the usability of the Entity View by adding the following enhancements:

- You can collapse the section that contains the root record of the entity.
- You can switch to edit mode by clicking in the fields.
- In sections that contain child records, when you are in Table View you can sort the columns.

Table View for Child Records

Effective in version 10.1 HotFix 1, you can specify the number of columns that you want to show in the table view for child records and grandchild records.

By default, the table view contains up to 20 columns plus 5 hidden columns. You can change the global default value by setting the `tableMaxColumns` parameter in the `C_REPOS_DS_PREF_DETAIL`.

For more information, see the Informatica MDM Multidomain Edition Version 10.1 HotFix 1 Informatica Data Director Implementation Guide.
**Custom Views**

Effective in version 10.1 HotFix 1, you can create a custom view in the Entity 360 framework to display views of the master data that are beneficial to business users. To configure a custom view, use the Layout Editor in the Provisioning tool to configure the view layout and then add the custom view to the view menu.

For more information about configuring custom views, see the *Informatica MDM Multidomain Edition Version 10.1 HotFix 1 Provisioning Tool Guide*.

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**Changes (10.1 HotFix 1)**

This section describes changes in version 10.1 HotFix 1.

**SAM Privileges**

Effective in version 10.1 HotFix 1, to see the New drop-down menu in IDD, you must assign create privileges on the subject area of the associated base object. Use the Security Access Manager in the Hub Console to assign privileges.

Previously, to see the New drop-down menu in IDD, you only had to assign read privileges on the subject area of the associated base object.

**Fill on Gap**

Effective in version 10.1 HotFix 1, for timeline-enabled base objects, you can enable the Fill on gap property in the Hub Console. You set the property for the base object in the associated staging table. Previously, you could only enable the Fill on gap property through the C_REPOS_TABLE for the associated staging table.

**Preserving Source System Keys**

Effective in version 10.1 HotFix 1, when the option to preserve source system keys is enabled, source system keys are preserved for initial data loads and for all subsequent data loads.

Previously, when the option to preserve source system keys was enabled, source system keys were preserved for initial data loads only.

**Removed INFA_MDM.zip File**

Effective in version 10.1 HotFix 1, the obsolete file INFA_MDM.zip was removed. The MDMWorkflow.zip file contains the current ActiveVOS workflows.

**Task Manager Enhancement**

Effective in version 10.1 HotFix 1, in the Task Manager, the task inbox spans the width of the browser window so that the column data is easier to read. When you review a task, the review panel opens below the task inbox. Previously, the panels were displayed side-by-side.

**Merge Task Enhancement**

Effective in version 10.1 HotFix 1, after you merge records from the Merge Preview, you see confirmation of the merge. Previously, a blank page was displayed.
Matches View Enhancement

Effective in version 10.1 HotFix 1, in the Matches View, you can highlight the rows with matched attributes by selecting the **Show Matched Rows** check box. Previously, the rows were not highlighted.

Business Entity Schema

Effective in version 10.1 HotFix 1, the business entity schema is updated to support pagination for sorted search results. You must regenerate the business entity schema after you upgrade.
This chapter includes the following topics:

- New Features (10.1), 51
- Changes (10.1), 57

New Features (10.1)

This section describes new features in version 10.1.

Provisioning Tool

The Provisioning tool is a tool to create business entity models and configure the Entity 360 framework. To create a business entity model, you create a root node and then establish relationships between nodes. These relationships are based on foreign key constraints that you define using the Hub Console. After you build the business entity model and configure the nodes you can publish the configuration to the MDM Hub.

Technical specialists can use the Provisioning tool to perform the following tasks:

- Use the graphic user interface to configure the business entity model. An XML editor is provided so you can configure the XML files directly for all configurations related to business entities.
- Use the graphic user interface to configure the properties for each node. For example, you can configure search properties and display names.
- Publish XML configuration files to the MDM Hub. The Repository Manager validates the configuration and reports any errors. You do not need to upload BLOB files to a repository table manually.

Informatica MDM Multidomain Edition technical specialists can use the Provisioning tool to perform the following activities:

- Create a business entity model. For implementation with custom user interfaces only. You cannot create a business entity model if you implement business entities in Informatica Data Director (IDD).
- Create a reference entity. For implementation with custom user interfaces only. You cannot create a reference entity if you implement business entities in Informatica Data Director.
- Configure the business entity nodes.
- Configure the search properties for each node in the business entity model.
- Generate the XML files for the following configurations:
  - REST services
- Write business entity service
- Search
- Configure the XML files for Entity 360 framework configuration.
- Configure the XML files for BPM tasks.
- Configure the XML files for business entity view and the transformation service.
- Publish the configuration files to the MDM Hub.

For more information, see the *Informatica MDM Multidomain Edition version 10.1 Provisioning Tool Guide*.

**When to Use the Configuration Tools**

Based on your environment, you use a different set of configuration tools.

The following table describes the types of environments and identifies which tools you use:

<table>
<thead>
<tr>
<th>Environment</th>
<th>Description</th>
<th>Tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Informatica MDM</td>
<td>You use MDM components. You do not use Informatica Data Director or Business Entity Services.</td>
<td>Hub Console</td>
</tr>
<tr>
<td>Informatica MDM with Informatica Data Director</td>
<td>You use MDM components. You also use Informatica Data Director to create a standard user interface for business users. <strong>Note:</strong> This option is supported for upgrade customers who want to maintain the behavior of existing IDD applications, including custom tabs and user exits.</td>
<td>1. Hub Console 2. IDD Configuration Manager</td>
</tr>
<tr>
<td>Informatica MDM with Informatica Data Director and the Entity 360 Framework</td>
<td>You use MDM components. You also use Informatica Data Director with the Entity 360 framework enabled.</td>
<td>1. Hub Console 2. IDD Configuration Manager 3. Provisioning tool</td>
</tr>
<tr>
<td>Informatica MDM with Business Entity Services</td>
<td>You use MDM components. You also use business entity services to make calls to the MDM Hub from a custom application.</td>
<td>1. Hub Console 2. Provisioning tool</td>
</tr>
</tbody>
</table>

**Differences Between Versions of Informatica Data Director**

In previous versions of Informatica Data Director (IDD), data was organized around subject areas and aggregated into subject area groups. IDD used the subject area definition to determine how to treat each foreign key relationship in an Operational Reference Store (ORS).

In the latest version of IDD, data is organized around business entities. A business entity can be anything that has significance to an organization. For example, your organization might define a business entity type of Person. The customer John Smith is a business entity of type Person. In the MDM Hub Store, a business entity corresponds to a record in a base object table.
The following table describes some of the differences between the versions of IDD, depending on whether you use subject areas or you use business entities.

<table>
<thead>
<tr>
<th>IDD with Subject Areas</th>
<th>IDD with Business Entities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject area depth is limited to three levels</td>
<td>Business entity depth is unlimited</td>
</tr>
<tr>
<td>n/a</td>
<td>Entity 360 framework</td>
</tr>
<tr>
<td>Custom workspaces through IDD configuration file</td>
<td>Custom Start workspaces available in Entity 360 framework</td>
</tr>
<tr>
<td>Static lookups are supported</td>
<td>Lookups supported through reference entities</td>
</tr>
<tr>
<td>User exits are supported</td>
<td>Server-side cleansing and validation</td>
</tr>
<tr>
<td>Import Master Data</td>
<td>Import Master Data is not available in version 10.1.0</td>
</tr>
</tbody>
</table>

**Business Entity Views and Transformations**

You can use the business entity views to expose the data in a business entity to your users in multiple ways and in formats suitable for the users. Business entity views provide a separation of low-level business entity and user interface related views. You can transform a business entity to a business entity view and a business entity view back to a business entity.

You can use the business entity views XML to define the business entity views and the transformation configuration XML to define the transformation of a business entity to a business entity view and back. You can use the Provisioning tool to manually define the business entity views and the transformation configuration XML.

For more information about business entity views and transformations, see the *Informatica MDM Multidomain Edition version 10.1 Provisioning Tool Guide*.

**REST API Business Entity Service Calls**

You can operate on multiple child branches at various depths in a single REST API business entity service request.

The following URL sample shows how to make a REST API read request to get the Person record with row ID 1242, the address detail from the Address child branch, and the email records from the Email child branch:

```
http://localhost:8080/cmex/cs/localhost-ORCL-DS_UI1/Person/1242?children=Address/Address_Details_1,Email
```

For more information, see the *Informatica MDM Multidomain Edition version 10.1 Business Entity Services Guide*.

**Resource Kit**

You can run the database performance testing utility to test the performance of the database for the MDM Hub. The database testing utility is included in the Resource Kit.

For more information, see the *Informatica MDM Multidomain Edition version 10.1 Resource Kit Guide*.
Hub Server Properties for the Tokenization and Match Process

You can add the following properties to the `cmxserver.properties` file to configure the tokenization and match process:

- `cmx.server.strp_clean.execution_mode`
  Configures the scope of operation of the background cleanup process on the match key table.

- `cmx.server.strp_clean.ors`
  Specifies the names of the Operational Reference Stores on which the background cleanup process must run to delete match tokens that are not valid.

- `cmx.server.strp_clean.strp`
  Specifies the Operational Reference Store and base object combinations for which the background cleanup process must run to clean up match key tables.

- `cmx.server.strp_clean.delete_records_count`
  Specifies the number of records to clean up from the match key table.

- `cmx.server.strp_clean.retry_sec`
  Specifies the time duration in seconds for which you want the MDM Hub to search for records with match tokens that are not valid in the match key table.

- `cmx.server.strp_clean.threads_count`
  Specifies the number of threads that the MDM Hub uses when it searches for records with match tokens that are not valid in the match key table.

For more information, see the *Informatica MDM Multidomain Edition Configuration Guide*.

Process Server Properties for the Tokenization and Match Process

You can add the following properties to the `cmxcleanse.properties` file to configure the tokenization and match process:

- `cmx.server.stripDML.blockSize`
  Configures the number of records that the MDM Hub processes in each block.

- `cmx.server.stripDML.noOfThreadsForDelete`
  Configures the number of threads that the MDM Hub uses to delete records from the match key tables.

- `cmx.server.stripDML.noOfThreadsForInsert`
  Configures the number of threads that the MDM Hub uses to insert records into the match key tables.

- `cmx.server.stripDML.noOfThreadsForUpdate`
  Configures the number of threads that the MDM Hub uses to update records in the match key tables.

- `cmx.server.stripDML.useUpdate`
  Specifies whether or not the match tokens must be marked as not valid instead of deleting them.

For more information, see the *Informatica MDM Multidomain Edition Configuration Guide*.

Informatica Data Director New Features

This section describes new features and enhancements to Informatica Data Director.
Hide the Data Workspace in Informatica Data Director

When you enable the Entity 360 framework for Informatica Data Director (IDD) applications, IDD users edit and manage master data from an entity workspace instead of from the Data workspace. You can reduce confusion for IDD users by hiding the Data workspace and the related user interface elements for all IDD applications. You hide the workspace by setting the cmx.dataview.enabled in the cmxserver.properties file.

In a new installation, the Data workspace is hidden by default. When upgrading, if the cmx.dataview.enabled property was not specified, the Data workspace is shown. If this property was specified, the IDD applications continue to respect the pre-upgrade setting. For more information, see "Hub Server Properties" in the Informatica MDM Multidomain Edition Configuration Guide.

Wildcard Search

You can use the asterisk wildcard character (*) with the search string to perform a wildcard search. Use the wildcard character at the end of the search string or in between the search string. For example, if you want to search for John, you can specify Jo* or J*n.

Search String Suggestions

You can configure smart search to suggest search strings based on the strings that you type. You can select one of the suggested values as the search string.

For more information about configuring smart search to suggest search strings, see the Informatica MDM Multidomain Edition Configuration Guide.

Jaspersoft Report in Start Workspace

If you use the business intelligence tool Jaspersoft to develop and analyze reports, you can display the reports in the Entity 360 framework for IDD. You can configure the Start workspace to display Jaspersoft reports.

For more information about Jaspersoft report configuration, see the Informatica MDM Multidomain Edition version 10.1 Provisioning Tool Guide.

Related Tasks

The Related Tasks component in the Task Manager inbox displays related tasks for a selected task.

**Note:** Related tasks only display tasks that are created in the BE-ActiveVOS adapter.

For more information, see the Informatica MDM Multidomain Edition version 10.1 Provisioning Tool Guide.

Global Properties

You can use the following global property to control the run-time behavior of the Informatica Data Director application:

**maxXrefSearchReturnCount**

Specifies the maximum number of cross-reference records that a search request returns in Informatica Data Director.

For more information, see the Informatica MDM Multidomain Edition Version 10.1 Informatica Data Director Implementation Guide.
Upgrade with Zero Downtime

When you need to upgrade Informatica MDM software but stakeholders require uninterrupted access to master data in the MDM Hub Store, you can use the zero downtime feature. While the primary Hub Store is offline for software updates, a secondary duplicate Hub Store stores changed data and responds to requests for master data.

**Note:** Informatica MDM uses Oracle GoldenGate for database replication.

Zero downtime is supported for Hub Stores that reside within IBM DB2 databases or within Oracle databases.

- **IBM DB2.** For more information, see the *Informatica MDM Multidomain Edition for IBM DB2 Version 10.1 Zero Downtime Installation Guide*.
- **Oracle.** For more information, see the *Informatica MDM Multidomain Edition for Oracle Version 10.1 Zero Downtime Installation Guide*.

ActiveVOS Task Migration Script

You can run a migration script to populate pre-10.1 ActiveVOS tasks with the correct presentation parameters. To work with ActiveVOS tasks that were created before MDM Multidomain Edition version 10.1, regularly run the migration script. If you do not run the migration script, the tasks do not appear in the Task Manager. Regularly run the migration script until all the tasks that were created before you upgraded to version 10.1 are processed.

For more information, see the *Informatica MDM Multidomain Edition version 10.1 Upgrade Guide*.

Suggester REST API

You can use the Suggester REST API to return a list of related terms for a search string, based on the data present in your database. Use the API to accept the characters that you type in a user interface field and return suggestions to autocomplete what you type.

For more information about the Suggester REST API, see the *Informatica MDM Multidomain Edition 10.1 Business Entity Services Guide*.

Enhancements to the Search Business Entity REST API

You can use the Search Business Entity API to perform a fielded search on the indexed values in a searchable root business entity and in all the child records. You can now use facets and filters to view a subset of the search results.

For more information about the Search Business Entity REST API, see the *Informatica MDM Multidomain Edition 10.1 Business Entity Services Guide*.

Reserved Key Words for IBM DB2

In IBM DB2 environments, the reserved key words MDMNODE and MDMALIAS are used for database creation. You cannot use these words as column names in IBM DB2 environments:

For more information, see the *Informatica MDM Multidomain Edition Version 10.1 Configuration Guide*. 

56       Chapter 10: New Features and Changes (10.1)
Changes (10.1)

This section describes changes in version 10.1.

Informatica LLC

Effective August 2015, in all Informatica products and documents, the term "Informatica Corporation" has been replaced with the term "Informatica LLC". Any occurrence of the term "Informatica Corporation" in current products or documentation should read "Informatica LLC".

Changes to Terms

In this release, some terms were changed.

The following table contains the old and new terms:

<table>
<thead>
<tr>
<th>Old Term</th>
<th>New Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>composite object</td>
<td>business entity</td>
</tr>
<tr>
<td>composite service</td>
<td>business entity service</td>
</tr>
<tr>
<td>Entity 360</td>
<td>Entity 360 framework</td>
</tr>
<tr>
<td>Entity 360 View</td>
<td>Entity View</td>
</tr>
<tr>
<td>360 View</td>
<td>Entity View</td>
</tr>
</tbody>
</table>

Secured Connection Between a Process Server and the Hub Server

When you configure a Process Server in the Hub Console, you can set a property to enable a secured connection with the Hub Server. In the Add/Edit Process Server dialog box, select Enable Secured Connection (HTTPS) to enable the secured connection.

In previous releases, you configured a secured connection by setting the Is Secured field to 1 in the C_REPOS_CLEANSE_MATCH_SERVER table.

Tokenization Process

Effective in version 10.1.0, the MDM Hub generates or updates match tokens when base object records are marked dirty.

The base object records are marked dirty if all of the following conditions are met:

- An update affects match columns in a base object.
- The best version of the truth (BVT) of a match column after the update is different from the old value.

Previously, base object records were marked dirty whenever there was any update to a base object record.
Searchable Field Properties

Effective in version 10.1.0, you can use the Provisioning tool to configure the searchable field properties.

Previously, you used a change list or manually updated the C_REPOS_CO_CS_CONFIG repository database table.

Informatica Data Director Changes

This section describes changes to Informatica Data Director.

Menu Changes

With the introduction of the Entity 360 framework, the menu items in the header changed.

Effective in version 10.0, the New menu was renamed to New SA, and another menu was added named New BE. Effective in version 10.0.0 HotFix 3, these menus were renamed to be more meaningful.

The following table summarizes the changes to the menus:

<table>
<thead>
<tr>
<th>Pre-version 10.0 Menus</th>
<th>Version 10.0 Menus</th>
<th>Version 10.0.0 HotFix 3 Menus</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>n/a</td>
<td>New BE</td>
<td>Create</td>
<td>Create a business entity in the Entity view.</td>
</tr>
<tr>
<td>New</td>
<td>New SA</td>
<td>Create in Data View</td>
<td>Create records in a subject area in the Data view. In 10.0.0 HotFix 3, if you hide the Data view, this menu is also hidden. Use the Create menu instead.</td>
</tr>
<tr>
<td>Queries</td>
<td>Queries</td>
<td>Queries</td>
<td>Use the search functions in the Data view. In 10.0.0 HotFix 3, if you hide the Data view, this menu is also hidden. Use the Search box instead.</td>
</tr>
</tbody>
</table>
Navigation Menu in the Entity View

Effective in version 10.0.0 HotFix 3, when you view a business entity in the Entity view, a navigation menu appears on the left. Click a section name in the navigation menu to scroll to that section in the Entity view.

For more information, see “Adding a Business Entity” in the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Informatica Data Director User Guide.

Form View for the Sections in the Entity View

Effective in version 10.0.0 HotFix 3, when you view a business entity in the Entity view, the root record appears at the top of the view and its child records appear in sections below the root record. The root record is displayed in form view. For sections, you can switch the view of the child records between a table view and a form view.

For more information, see “Adding a Business Entity” in the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Informatica Data Director User Guide.

Hierarchy Canvas

Effective in version 10.0.0 HotFix 3, in the Hierarchy canvas, the node text wraps to the next line instead of being truncated.

Service URL

Effective in version 10.0.0 HotFix 3, you can specify the service URL format that Informatica Data Director generates for SIF calls.

Add the following text to the cmxserver.properties file to specify the service URL:

```properties
referer.url=http://<local host>:<port number>
```
Multiple Match Indexes

The multiple match indexes feature, which was introduced in a HotFix for version 9.7.1, is not supported in version 10.0.0 or later.

Validation of Changes to the Schema

Effective in version 10.0.0 HotFix 3, if you make any changes to the schema in the Hub Console, such as adding a column to a base object, metadata validation generates a warning. Each change that you make to the schema causes dummy metadata validation and adds an entry to the C_REPOS_MET_VALID_RESULT table.

Obsolete Hub Server Properties

In this release, some Hub Server properties are not used. If the obsolete properties remain in the cmxserver.properties file after you upgrade, the properties are ignored. You can safely remove them from the file.

The following properties are obsolete:

<table>
<thead>
<tr>
<th>Property</th>
<th>Replacement</th>
</tr>
</thead>
<tbody>
<tr>
<td>activevos.merge.workflow.operation.name</td>
<td>None</td>
</tr>
<tr>
<td>activeos.workflow.basicSecure</td>
<td>ActiveVOS security is handled at the application server level. A trusted user enables ActiveVOS to interact securely with the MDM Hub.</td>
</tr>
<tr>
<td>cmx.idd.data_import_enabled</td>
<td>None</td>
</tr>
<tr>
<td>solr.allNodesAliveSleepTimeout</td>
<td>None</td>
</tr>
<tr>
<td>teamworks.merge.workflow.guid</td>
<td>None</td>
</tr>
<tr>
<td>zk.allNodesAliveRetries</td>
<td>None</td>
</tr>
</tbody>
</table>
Part III: Version 10.0.0

This part contains the following chapters:

- New Features and Changes (10.0.0 HotFix 5), 62
- New Features and Enhancements (10.0.0 Hot Fix 4), 66
- New Features and Enhancements (10.0.0 Hot Fix 3), 68
- New Features and Enhancements (10.0.0 Hot Fix 2), 82
- New Features, Changes, and Release Tasks (10.0.0 Hot Fix 1), 95
- New Features, Changes, and Release Tasks (10.0.0), 98
New Features and Changes (10.0.0 HotFix 5)

This chapter includes the following topics:

- New Features (10.0.0 HotFix 5), 62
- Changes (10.0.0 HotFix 5), 64

New Features (10.0.0 HotFix 5)

This section describes new features in version 10.0.0 HotFix 5.

Informatica MDM Hub

This section describes new features and enhancements to Informatica MDM Hub.

Grouping Hub Servers and Process Servers

You can configure a logical grouping of Hub Servers and Process Servers. If you group a set of Hub Servers and Process Servers together, all communication between the servers stays within the group. To group a Hub Server and Process Server together, assign a group ID to each Java Virtual Machine in the MDM Hub implementation.

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Installation Guide and the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Upgrade Guide.

Informatica ActiveVOS Version 9.2.4.3

Informatica MDM version 10.0.0 HotFix 5 supports Informatica ActiveVOS version 9.2.4.3.

Hub Server Properties

You can use the following Hub Server properties to control the run-time behavior of the MDM Hub.

Configure the Hub Server properties in the cmxserver.properties file.
**cmx.bes.write.alwaystokenize**

By default, the MDM Hub does not tokenize updated records in the following scenarios:

- If you update the parent record or child record for an exact match column.
- If you update a child column that is configured as an exact match column in the parent table.

To specify that the MDM Hub always tokenizes updated records in these scenarios, set this property to `true`. Default is `false`.

**cmx.server.selective.bvt.enabled**

By default, a Put or Cleanse Put call applies BVT calculations to all fields in a record instead of updating only the fields 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 this property to `true`. Default is `false`.

**com.informatica.mdm.message.queue.max.bytes.threshold**

You can create a maximum limit for messages sent to the message queue. To specify the maximum size in bytes of messages sent to the message queue, set this property. If a message exceeds the specified size, the message will not be sent and the message status set to Failed.

For more information about setting Hub Server properties, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Configuration Guide.

---

**Process Server Property for Tokenization in Match Jobs**

You can specify that the MDM Hub runs tokenization when there is a match job or a tokenization API call on a large number of records. Set the `cmx.server.stripDML.useDeleteInsertLock` Process Server property to run tokenization during a match job on a larger number of records.

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Configuration Guide.

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**Informatica Data Director**

This section describes new features and enhancements to Informatica Data Director.

**Save Handler User Exit Enhancement**

In Save Handler user exits, you can use the `getChangedChildren` method to return modified or added child or grandchild records in a specified base object.

The user exit returns all records that were added, deleted, or updated. You can select the type of changes returned by the user exit. For example, you can request the user exit returns a combination of removed and updated children records.

**Global Properties**

You can use the following global properties to control the run-time behavior of the Informatica Data Director application:

`deleteMovedRelInExplorerView`

Determines whether to delete the old relationship when you create a new relationship in Hierarchy Manager explorer view. Set to `false` to give the relationship an end date.
enableSaveForPeriodDialogForHmRel

Enables the effective period dialog box that appears when you update a Hierarchy Manager-enabled record in IDD. Set to false to disable the effective period dialog box.

hideSystemColumnsInResult

Specifies whether the system columns appear in the search results. Set to true to hide the system columns in IDD search results.

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Informatica Data Director Implementation Guide.

Date Format Enhancement

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:

<distribution directory>\hub\server\resources\entityE360

Note: If it does not already exist, create the entityE360 directory.

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Informatica Provisioning Tool Guide.

Changes (10.0.0 HotFix 5)

This section describes changes in version 10.0.0 HotFix 5.

Proxy Role

Effective in version 10.0.0 HotFix 5, the Operational Reference Store that you create contains a proxy role. Previously, the proxy role had been deprecated. Due to demand, the proxy role has been reinstated.

User Exit Enhancement

Effective in version 10.0.0 HotFix 5, you can set effective periods in Hierarchy Manager user exits. Previously, you could only set effective periods in the Save Handler user exit.

Changes to the Guides

Effective in version 10.0.0 HotFix 5, all the guides in the Informatica MDM Multidomain Edition documentation set reflect the new Informatica brand and have an updated copyright page.

The following guides contain content related to new and changed features in this release:

- Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Release Notes
- Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Release Guide
- Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Installation Guide
- Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Upgrade Guide
• Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Configuration Guide
• Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Provisioning Tool Guide
• Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Informatica Data Director Implementation Guide
• Informatica MDM Multidomain Edition Version 10.0.0 HotFix 5 Resource Kit Guide

The remaining guides in the documentation set are unchanged from earlier releases and retain their version numbers.
CHAPTER 12

New Features and Enhancements (10.0.0 Hot Fix 4)

This chapter includes the following topics:

- New Features (10.0.0 HotFix 4), 66
- Changes (10.0.0 HotFix 4), 67

New Features (10.0.0 HotFix 4)

This section describes new features in version 10.0.0 HotFix 4.

Informatica MDM Hub

This section describes new features and enhancements to Informatica MDM Hub.

Batch Group Job History

In the Batch Group tool in the Hub Console, you can specify the number of days of history to process for a batch group job log. By default, logs for batch jobs consider all history, but you can reduce the number of days considered.

To specify the number of days of history to process for a batch group job log, set the `cmx.server.jobControl.noOfDays` property in the `cmxserver.properties` file.

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 4 Configuration Guide.

Informatica Data Director

This section describes new features and enhancements to Informatica Data Director.
Global Properties

You can use the following global properties to control the run-time behavior of the Informatica Data Director application:

**CompositePagerTotalRecords**
- Maximum number of ActiveVOS tasks that Informatica Data Director sorts case-insensitively. By default, Informatica Data Director sorts ActiveVOS tasks case insensitively. If there are more than the value of `CompositePagerTotalRecords` to sort, case-sensitive sorting is database dependent. If the database is Microsoft SQL Server, the sorting is case insensitive. If the database is Oracle or IBM DB2, the sorting is case sensitive.

**convert2DigitYearTo4Digit**
- Enables the adjustment of a two-digit year entry to a four-digit year entry.

**expandDropDownListShowFullValue**
- Enables expansion of the drop-down list in the Search tab for lookup records.

**qrytaskidfromprocessidtotalretry**
- Number of attempts that Informatica Data Director makes to reload an ActiveVOS task.

**qrytaskidfromprocessidwaitintrvlmillis**
- Number of milliseconds that Informatica Data Director waits before attempting to reload an ActiveVOS task.

**proactiveMatchResultSort**
- Configures the sort order in which the potential matches appear in the Informatica Data Director application.

For more information, see the *Informatica MDM Multidomain Edition Version 10.0.0 HotFix 4 Informatica Data Director Implementation Guide*.

History View Enhancements

Improved the usability of the History view by adding the following fields to a record:

**Last Update Date**
- Displays the date the record was most recently updated.

**Updated By**
- Displays the name of the user that updated the record.

Start Workspace Enhancements

To help you prioritize tasks, the Start workspace has a **Create date** column that displays the date a task was created. The Start workspace also has an **Owner** column that displays the current owner of a task.

Changes (10.0.0 HotFix 4)

There are no other changes for version 10.0.0 HotFix 4.
New Features and Enhancements (10.0.0 Hot Fix 3)

This chapter includes the following topics:

- New Features (10.0.0 HotFix 3), 68
- Changes (10.0.0 HotFix 3), 76

New Features (10.0.0 HotFix 3)

This section describes new features in version 10.0.0 HotFix 3.

Informatica MDM Hub

This section describes new features and enhancements to Informatica MDM Hub.

Timeline Extract Job

The timeline extract job can keep the history of rejected records. When you run the timeline extract job, the MDM Hub sends the rejected records to a reject table. To processes the rejected records, run the timeline extract job again.

For more information, see "Using Timeline Extract" in the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Configuration Guide.

Hub Server Property for Cloud Deployments

You can specify the communication protocol to use with the Java Network Launch Protocol (JNLP) file that launches the MDM Hub Console in a cloud deployment. You set the cmx.appserver.jnlp.protocol Hub Server property to specify the communication protocol.

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Configuration Guide.
Specifying Primary Key Columns for Hard Delete Detection

When you create a unique primary key by concatenating values from multiple source columns, the hard delete detection (HDD) process looks at the inputs to the function and monitors all the input source columns. You can now override this behavior by listing the columns to monitor in the hard delete detection repository table.

For example, you create a custom function with many inputs. Within the custom function, some of the source columns are inputs to a concatenate function that creates the unique primary key. Other source columns pass through the custom function unchanged. The HDD process cannot see what happens within a custom function. Therefore, the HDD process monitors all the inputs to the custom function. You want the HDD process to monitor only the source columns that contribute to the primary key.

To focus the HDD process on the subset of source columns that contribute to the primary key, configure the C_REPOS_EXT_HARD_DEL_DETECT repository table. Add an HDD_LANDING_PKEY_COLUMNS column, and insert a comma-separated list of the column names.

For more information, see "Specifying the Primary Key Columns for Hard Delete Detection" in the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Configuration Guide.

Enhancements to the Read and List Business Entity Services

You can specify the sort order for the child elements when you use the Read business entity service to retrieve the details of a root record. You can specify the sort order when you use the List business entity service to retrieve lookup values.

Use the parameter order to specify the sort order.

For more information about the order parameter, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Business Entity Services Guide.

Option to Suppress Links in the Business Entity Services Responses

You can suppress parent-child links in the responses of the Read and Search business entity services. Use the parameter suppressLinks to suppress the links in the responses.

For more information about the suppressLinks parameter, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Business Entity Services Guide.

Allow Null Update Property

You can change how the load process sets the Allow Null Update property when there is a mixture of values for the Allow Null Update property in the contributing staging tables. You can also control how the load process sets the Allow Null Update property for multiple staging tables with the same source system.

For more information, see "Customize the Behavior of the Allow Null Update Property" in the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Configuration Guide.

Resource Kit

You can run the database performance testing utility to test the performance of the database for the MDM Hub. The database testing utility is included in the Resource Kit.

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Resource Kit Guide.
Hub Server Properties for the Tokenization and Match Process

You can add the following properties to the `cmxserver.properties` file to configure the tokenization and match process:

- `cmx.server.strp_clean.execution_mode`
  Configures the scope of operation of the background cleanup process on the match key table.

- `cmx.server.strp_clean.ors`
  Specifies the names of the Operational Reference Stores on which the background cleanup process must run to delete match tokens that are not valid.

- `cmx.server.strp_clean.strp`
  Specifies the Operational Reference Store and base object combinations for which the background cleanup process must run to clean up match key tables.

- `cmx.server.strp_clean.delete_records_count`
  Specifies the number of records to clean up from the match key table.

- `cmx.server.strp_clean.retry_sec`
  Specifies the time duration in seconds for which you want the MDM Hub to search for records with match tokens that are not valid in the match key table.

- `cmx.server.strp_clean.threads_count`
  Specifies the number of threads that the MDM Hub uses when it searches for records with match tokens that are not valid in the match key table.

For more information, see the *Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Configuration Guide*.

Process Server Properties for the Tokenization and Match Process

You can add the following properties to the `cmxcleanse.properties` file to configure the tokenization and match process:

- `cmx.server.stripDML.blockSize`
  Configures the number of records that the MDM Hub processes in each block.

- `cmx.server.stripDML.noOfThreadsForDelete`
  Configures the number of threads that the MDM Hub uses to delete records from the match key tables.

- `cmx.server.stripDML.noOfThreadsForInsert`
  Configures the number of threads that the MDM Hub uses to insert records into the match key tables.

- `cmx.server.stripDML.noOfThreadsForUpdate`
  Configures the number of threads that the MDM Hub uses to update records in the match key tables.

- `cmx.server.stripDML.useUpdate`
  Specifies whether or not the match tokens must be marked as not valid instead of deleting them.

For more information, see the *Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Configuration Guide*. 
Suggester REST API

You can use the Suggester REST API to return a list of related terms for a search string, based on the data present in your database. Use the API to accept the characters that you type in a user interface field and return suggestions to autocomplete what you type.

For more information about the Suggester REST API, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Business Entity Services Guide.

Enhancements to the Search Business Entity REST API

You can use the Search Business Entity API to perform a fielded search on the indexed values in a searchable root business entity and in all the child records. You can now use facets and filters to view a subset of the search results.

For more information about the Search Business Entity REST API, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Business Entity Services Guide.

Reserved Key Words for IBM DB2

In IBM DB2 environments, the reserved key words MDMNODE and MDMALIAS are used for database creation. You cannot use these words as column names in IBM DB2 environments:

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Configuration Guide.

Provisioning Tool

The Provisioning tool is a tool to create business entity models and configure the Entity 360 framework. To create a business entity model, you create a root node and then establish relationships between nodes. These relationships are based on foreign key constraints that you define using the Hub Console. After you build the business entity model and configure the nodes you can publish the configuration to the MDM Hub.

Technical specialists can use the Provisioning tool to perform the following tasks:

- Use the graphic user interface to configure the business entity model. An XML editor is provided so you can configure the XML files directly for all configurations related to business entities.
- Use the graphic user interface to configure the properties for each node. For example, you can configure search properties and display names.
- Publish XML configuration files to the MDM Hub. The Repository Manager validates the configuration and reports any errors. You do not need to upload BLOB files to a repository table manually.

Informatica MDM Multidomain Edition technical specialists can use the Provisioning tool to perform the following activities:

- Create a business entity model. For implementation with custom user interfaces only. You cannot create a business entity model if you implement business entities in Informatica Data Director (IDD).
- Create a reference entity. For implementation with custom user interfaces only. You cannot create a reference entity if you implement business entities in Informatica Data Director.
- Configure the business entity nodes.
- Configure the search properties for each node in the business entity model.
- Generate the XML files for the following configurations:
  - REST services
- Write business entity service
- Search

- Configure the XML files for Entity 360 framework configuration.
- Configure the XML files for BPM tasks.
- Configure the XML files for business entity view and the transformation service.
- Publish the configuration files to the MDM Hub.

For more information, see the *Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Provisioning Tool Guide*.

### When to Use the Configuration Tools

Based on your environment, you use a different set of configuration tools.

The following table describes the types of environments and identifies which tools you use:

<table>
<thead>
<tr>
<th>Environment</th>
<th>Description</th>
<th>Tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Informatica MDM</td>
<td>You use MDM components. You do not use Informatica Data Director or Business Entity Services.</td>
<td>Hub Console</td>
</tr>
<tr>
<td>Informatica MDM with Informatica Data Director</td>
<td>You use MDM components. You also use Informatica Data Director to create a standard user interface for business users. <strong>Note:</strong> This option is supported for upgrade customers who want to maintain the behavior of existing IDD applications, including custom tabs and user exits.</td>
<td>1. Hub Console 2. IDD Configuration Manager</td>
</tr>
<tr>
<td>Informatica MDM with Informatica Data Director and the Entity 360 Framework</td>
<td>You use MDM components. You also use Informatica Data Director with the Entity 360 framework enabled.</td>
<td>1. Hub Console 2. IDD Configuration Manager 3. Provisioning tool</td>
</tr>
<tr>
<td>Informatica MDM with Business Entity Services</td>
<td>You use MDM components. You also use business entity services to make calls to the MDM Hub from a custom application.</td>
<td>1. Hub Console 2. Provisioning tool</td>
</tr>
</tbody>
</table>

### Informatica Data Director

This section describes new features and enhancements to Informatica Data Director.

### Differences Between Versions of Informatica Data Director

In previous versions of Informatica Data Director (IDD), data was organized around subject areas and aggregated into subject area groups. IDD used the subject area definition to determine how to treat each foreign key relationship in an Operational Reference Store (ORS).

In the latest version of IDD, data is organized around business entities. A business entity can be anything that has significance to an organization. For example, your organization might define a business entity type of Person. The customer John Smith is a business entity of type Person. In the MDM Hub Store, a business entity corresponds to a record in a base object table.
The following table describes some of the differences between the versions of IDD, depending on whether you use subject areas or you use business entities.

<table>
<thead>
<tr>
<th>IDD with Subject Areas</th>
<th>IDD with Business Entities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject area depth is limited to three levels</td>
<td>Business entity depth is unlimited</td>
</tr>
<tr>
<td>n/a</td>
<td>Entity 360 framework</td>
</tr>
<tr>
<td>Custom workspaces through IDD configuration file</td>
<td>Custom Start workspaces available in Entity 360 framework</td>
</tr>
<tr>
<td>Static lookups are supported</td>
<td>Lookups supported through reference entities</td>
</tr>
<tr>
<td>User exits are supported</td>
<td>Server-side cleansing and validation</td>
</tr>
<tr>
<td>Import Master Data</td>
<td>Import Master Data is not available in version 10.0.0 HotFix 3</td>
</tr>
</tbody>
</table>

**Business Entity Views and Transformations**

You can use the business entity views to expose the data in a business entity to your users in multiple ways and in formats suitable for the users. Business entity views provide a separation of low-level business entity and user interface related views. You can transform a business entity to a business entity view and a business entity view back to a business entity.

You can use the business entity views XML to define the business entity views and the transformation configuration XML to define the transformation of a business entity to a business entity view and back. You can use the Provisioning tool to manually define the business entity views and the transformation configuration XML.

For more information about business entity views and transformations, see the *Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Provisioning Tool Guide*.

**REST API Business Entity Service Calls**

You can operate on multiple child branches at various depths in a single REST API business entity service request.

The following URL sample shows how to make a REST API read request to get the Person record with row ID 1242, the address detail from the Address child branch, and the email records from the Email child branch:

```
http://localhost:8080/cm/xs/localhost=ORCL-DS_UI1/Person/1242?children=Address/Address_Details_1,Email
```

For more information, see the *Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Business Entity Services Guide*.

**Multiple Task Actions Support**

You can configure an ActiveVOS workflow to allow reviewers to perform multiple actions on a task without closing the Task tab. For each task action where you want to support multiple actions without closing the Task tab, set the `closeTaskView` property to false.

For more information, see the *Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Informatica Data Director Implementation Guide*.
Hub Preference Property

You can use the `enableCreateBEMenuGrouping` Hub preference property to set logical create menu groups based on subject area groups.

For more information, see "Adding Groups Within the Create Menus" in the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Informatica Data Director Implementation Guide.

Search Queries

You can build search queries to include package columns that are not part of a subject area. Search results can display all the package columns that you use to build a query.

Language Display

You can configure Informatica Data Director to display custom action names in the More Actions menu to appear in a localized language. To localize the custom action names, add the custom action name and localized value pairs to the internationalization message bundles.

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Informatica Data Director Implementation Guide.

Global Properties

You can use the following global properties to control the run-time behavior of the Informatica Data Director application:

- **bulkexportloadsize**
  
  Sets the maximum size of the load for each thread when you export data to a Microsoft Excel file.

- **exportusingmultithread**
  
  Enables multithreading for data export to a Microsoft Excel file.

- **enableCreateBEMenuGrouping**
  
  Specifies whether you can define logical groups based on subject areas for the Create menu for business entities. The property is required if you have a large number of subject areas.

- **showShadowColumns**
  
  Specifies whether to show shadow columns in the Cross-reference View.

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Informatica Data Director Implementation Guide.

User Authentication and Password Encryption

You can configure authentication for URLs in Informatica Data Director. When authentication is enabled, when users log in, they pass their user name and password as part of the URL in Informatica Data Director. You can also configure Informatica Data Director to pass the user name and password in an encrypted format.

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Informatica Data Director Implementation Guide and the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Configuration Guide.
Entity View Enhancements

Improved the usability of the Entity View by adding the following enhancements:

- You can collapse the section that contains the root record of the entity.
- You can switch to edit mode by clicking in the fields.
- In sections that contain child records, when you are in Table View you can sort the columns.

Table View for Child Records

You can specify the number of columns that you want to show in the table view for child records and grandchild records.

By default, the table view contains up to 20 columns plus 5 hidden columns. You can change the global default value by setting the `tableMaxColumns` parameter in the `C_REPOS_DS_PREF_DETAIL`.

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Informatica Data Director Implementation Guide.

Custom Views

You can create a custom view in the Entity 360 framework to display views of the master data that are beneficial to business users. To configure a custom view, use the Layout Editor in the Provisioning tool to configure the view layout and then add the custom view to the view menu.

For more information about configuring custom views, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Provisioning Tool Guide.

Hide the Data Workspace in Informatica Data Director

When you enable the Entity 360 framework for Informatica Data Director (IDD) applications, IDD users edit and manage master data from an entity workspace instead of from the Data workspace. You can reduce confusion for IDD users by hiding the Data workspace and the related user interface elements for all IDD applications. You hide the workspace by setting the `cmx.dataview.enabled` in the `cmxserver.properties` file.

In a new installation, the Data workspace is hidden by default. When upgrading, if the `cmx.dataview.enabled` property was not specified, the Data workspace is shown. If this property was specified, the IDD applications continue to respect the pre-upgrade setting.

For more information, see "Hub Server Properties" in the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Configuration Guide.

Wildcard Search

You can use the asterisk wildcard character (*) with the search string to perform a wildcard search. Use the wildcard character at the end of the search string or in between the search string. For example, if you want to search for John, you can specify Jo* or J*n.

Search String Suggestions

You can configure smart search to suggest search strings based on the strings that you type. You can select one of the suggested values as the search string.

For more information about configuring smart search to suggest search strings, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Configuration Guide.
Jaspersoft Report in Start Workspace

If you use the business intelligence tool Jaspersoft to develop and analyze reports, you can display the reports in the Entity 360 framework for IDD. You can configure the Start workspace to display Jaspersoft reports.

For more information about Jaspersoft report configuration, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Provisioning Tool Guide.

Related Tasks

The Related Tasks component in the Task Manager inbox displays related tasks for a selected task.

**Note:** Related tasks only display tasks that are created in the BE-ActiveVOS adapter.

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Provisioning Tool Guide.

Changes (10.0.0 HotFix 3)

This section describes changes in version 10.0.0 HotFix 3.

**Informatica LLC**

Effective August 2015, in all Informatica products and documents, the term “Informatica Corporation” has been replaced with the term “Informatica LLC”. Any occurrence of the term “Informatica Corporation” in current products or documentation should read “Informatica LLC”.

Changes to Terms

In this release, some terms were changed.

The following table contains the old and new terms:

<table>
<thead>
<tr>
<th>Old Term</th>
<th>New Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>composite object</td>
<td>business entity</td>
</tr>
<tr>
<td>composite service</td>
<td>business entity service</td>
</tr>
<tr>
<td>Entity 360</td>
<td>Entity 360 framework</td>
</tr>
<tr>
<td>Entity 360 View</td>
<td>Entity View</td>
</tr>
<tr>
<td>360 View</td>
<td>Entity View</td>
</tr>
</tbody>
</table>

**Business Entity Services Guide**

Effective in version 10.0.0 HotFix 3, the Informatica MDM Multidomain Edition Composite Services Guide was renamed to the Informatica MDM Multidomain Edition Business Entity Services Guide.
Menu Changes

With the introduction of the Entity 360 framework, the menu items in the header changed.

Effective in version 10.0, the New menu was renamed to New SA, and another menu was added named New BE. Effective in version 10.0.0 HotFix 3, these menus were renamed to be more meaningful.

The following table summarizes the changes to the menus:

<table>
<thead>
<tr>
<th>Pre-version 10.0 Menus</th>
<th>Version 10.0 Menus</th>
<th>Version 10.0.0 HotFix 3 Menus</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>n/a</td>
<td>New BE</td>
<td>Create</td>
<td>Create a business entity in the Entity view.</td>
</tr>
<tr>
<td>New</td>
<td>New SA</td>
<td>Create in Data View</td>
<td>Create records in a subject area in the Data view. In 10.0.0 HotFix 3, if you hide the Data view, this menu is also hidden. Use the Create menu instead.</td>
</tr>
<tr>
<td>Queries</td>
<td>Queries</td>
<td>Queries</td>
<td>Use the search functions in the Data view. In 10.0.0 HotFix 3, if you hide the Data view, this menu is also hidden. Use the Search box instead.</td>
</tr>
</tbody>
</table>

Navigation Menu in the Entity View

Effective in version 10.0.0 HotFix 3, when you view a business entity in the Entity view, a navigation menu appears on the left. Click a section name in the navigation menu to scroll to that section in the Entity view.

Form View for the Sections in the Entity View

Effective in version 10.0.0 HotFix 3, when you view a business entity in the Entity view, the root record appears at the top of the view and its child records appear in sections below the root record. The root record
is displayed in form view. For sections, you can switch the view of the child records between a table view and a form view.

For more information, see "Adding a Business Entity" in the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Informatica Data Director User Guide.

Service URL

Effective in version 10.0.0 HotFix 3, you can specify the service URL format that Informatica Data Director generates for SIF calls.

Add the following text to the cmxserver.properties file to specify the service URL:

referer.url=http://<local host>:<port number>

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Informatica Data Director Implementation Guide.

Hierarchy Canvas

Effective in version 10.0.0 HotFix 3, in the Hierarchy canvas, the node text wraps to the next line instead of being truncated.

BeMDMWorkflow ActiveVOS Project

Effective in version 10.0 HotFix 3, the BeMDMWorkflow project in the Resource Kit has changed to resolve an issue with task inbox filtering.

Previously, the BeMDMWorkflow project in the Resource Kit caused an issue with task inbox filtering.

If you upgrade from an earlier version, redeploy the BeMDMWorkflow project after you upgrade. If you have customized the workflows, use ActiveVOS Designer to add the following code within the TaskFilter complex type in the cs.wsd1 file:

```xml
<xsd:element minOccurs="0" name="overdueOnly" type="xsd:boolean"/>
```

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Upgrade Guide.

Allow Null Update Property

Effective in version 10.0.0 HotFix 3, all processes that calculate the best version of the truth treat null values the same way. Previously, some processes ignored the Allow Null Update property in the staging table and used the Apply Null Values property in the base object table.

When a source system contributes a null value for a column, a process refers to the setting of the Allow Null Update property for that column in the staging table.

- If the Allow Null Update property is enabled on the column, the process can write the null value to the base object record.
• If the Allow Null Update property is disabled on the column, the process downgrades the trust for the null value.
• If a process cannot resolve the setting of the Allow Null Update property in a staging table, the process uses the setting for the Apply Null Values property in the base object table.

For more information about the Allow Null Update property, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 3 Configuration Guide.

Obsolete Properties

Effective in version 10.0.0 HotFix 3, the following Hub Server properties are obsolete:

<table>
<thead>
<tr>
<th>Obsolete Property</th>
<th>Change in Behavior for Version 10.0.0 HotFix 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>cmx.server.batch.load.analyze_threshold_rate</td>
<td>There is no equivalent in this version.</td>
</tr>
<tr>
<td>activevos.merge.workflow.operation.name</td>
<td>None</td>
</tr>
<tr>
<td>activeos.workflow.basicSecure</td>
<td>ActiveVOS security is handled at the application server level. A trusted user enables ActiveVOS to interact securely with the MDM Hub.</td>
</tr>
<tr>
<td>cmx.idd.data_import_enabled</td>
<td>None</td>
</tr>
<tr>
<td>solr.allNodesAliveSleepTimeout</td>
<td>None</td>
</tr>
<tr>
<td>teamworks.merge.workflow.guid</td>
<td>None</td>
</tr>
<tr>
<td>zk.allNodesAliveRetries</td>
<td>None</td>
</tr>
</tbody>
</table>

Effective in version 10.0.0 HotFix 3, the following Process Server properties are obsolete:

<table>
<thead>
<tr>
<th>Obsolete Property</th>
<th>Change in Behavior for Version 10.0.0 HotFix 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>com.informatica.mdm.overrideNullable</td>
<td>When a source system contributes a null value, you cannot override how a process calculates the most trustworthy value. The method that a process uses to handle null values has changed. For more information, see &quot;Allow Null Update Property&quot; on page 78.</td>
</tr>
<tr>
<td>com.informatica.mdm.promoteNullable</td>
<td>When a source system that contributes a null value for a column has multiple staging tables, processes ignore the Allow Null Update property in all the staging tables. Instead, processes use the setting of the Apply Null Values property in the base object record.</td>
</tr>
</tbody>
</table>

If an obsolete property remains in the properties file after you upgrade, the property is ignored. You can safely remove the property from the file.

SAM Privileges

Effective in version 10.0.0 HotFix 3, to see the New drop-down menu in IDD, you must assign create privileges on the subject area of the associated base object. Use the Security Access Manager in the Hub Console to assign privileges.

Previously, to see the New drop-down menu in IDD, you only had to assign read privileges on the subject area of the associated base object.
Fill on Gap Property

Effective in version 10.0.0 HotFix 3, for timeline-enabled base objects, you can enable the Fill on gap property in the Hub Console. You set the property for the base object in the associated staging table. Previously, you could only enable the Fill on gap property through the C_REPOS_TABLE for the associated staging table.

Preserving Source System Keys

Effective in version 10.0.0 HotFix 3, when the option to preserve source system keys is enabled, source system keys are preserved for initial data loads and for all subsequent data loads. Previously, when the option to preserve source system keys was enabled, source system keys were preserved for initial data loads only.

Removed INFA_MDM.zip File

Effective in version 10.0.0 HotFix 3, the obsolete file INFA_MDM.zip was removed. The MDMWorkflow.zip file contains the current ActiveVOS workflows.

Task Manager Enhancement

Effective in version 10.0.0 HotFix 3, in the Task Manager, the task inbox spans the width of the browser window so that the column data is easier to read. When you review a task, the review panel opens below the task inbox. Previously, the panels were displayed side-by-side.

Merge Task Enhancement

Effective in version 10.0.0 HotFix 3, after you merge records from the Merge Preview, you see confirmation of the merge. Previously, a blank page was displayed.

Matches View Enhancement

Effective in version 10.0.0 HotFix 3, in the Matches View, you can highlight the rows with matched attributes by selecting the Show Matched Rows check box. Previously, the rows were not highlighted.

Business Entity Schema

Effective in version 10.0.0 HotFix 3, the business entity schema is updated to support pagination for sorted search results. You must regenerate the business entity schema after you upgrade.

Secured Connection Between a Process Server and the Hub Server

Effective in version 10.0.0 HotFix 3, when you configure a Process Server in the Hub Console, you can set a property to enable a secured connection with the Hub Server. In the Add/Edit Process Server dialog box, select Enable Secured Connection (HTTPS) to enable the secured connection.

In previous releases, you configured a secured connection by setting the Is Secured field to 1 in the C_REPOS_CLEANSE_MATCH_SERVER table.
**Tokenization Process**

Effective in version 10.0.0 HotFix 3, the MDM Hub generates or updates match tokens when base object records are marked dirty.

The base object records are marked dirty if all of the following conditions are met:

- An update affects match columns in a base object.
- The best version of the truth (BVT) of a match column after the update is different from the old value.

Previously, base object records were marked dirty whenever there was any update to a base object record.

**Searchable Field Properties**

Effective in version 10.0.0 HotFix 3, you can use the Provisioning tool to configure the searchable field properties.

Previously, you used a change list or manually updated the C_REPOS_CO_CS_CONFIG repository database table.

**Multiple Match Indexes**

The multiple match indexes feature, which was introduced in a HotFix for version 9.7.1, is not supported in version 10.0.0 or later.

**Validation of Changes to the Schema**

Effective in version 10.0.0 HotFix 3, if you make any changes to the schema in the Hub Console, such as adding a column to a base object, metadata validation generates a warning. Each change that you make to the schema causes dummy metadata validation and adds an entry to the C_REPOS_MET_VALID_RESULT table.
New Features and Enhancements (10.0.0 Hot Fix 2)

This chapter includes the following topics:

- New Features (10.0.0 HotFix 2), 82
- Changes (10.0.0 HotFix 2), 89
- Release Tasks (10.0.0 HotFix 2), 92

New Features (10.0.0 HotFix 2)

This section describes new features in version 10.0.0 HotFix 2.

Informatica MDM Hub

This section describes new features and enhancements to Informatica MDM Hub.

Batch Jobs

The MDM Hub batch jobs can run in parallel on all the child base objects that are in the match path of the parent base object.

For more information about batch jobs, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 2 Configuration Guide.

Representational State Transfer Composite Service Calls

You can make Representational State Transfer (REST) composite service calls to perform Hub related operations and manage tasks.

Use the REST APIs to perform the following operations:

- Retrieve the metadata, content metadata, and lookup data of composite objects.
- Merge and unmerge records.
- Retrieve related and matched records.
- Update and delete matched records.
- Create, update, and search for tasks and perform tasks.
For more information about REST APIs, see the Informatica MDM Multidomain Edition 10.0.0 HotFix 2 Composite Services Guide.

Simple Object Access Protocol Composite Service Calls
You can use Simple Object Access Protocol (SOAP) APIs to access all composite services as web services. You can make SOAP calls to create, update, delete, and search for records in a composite object. You can retrieve the metadata, content metadata, and lookup data of composite objects. You can perform operations, such as merge, unmerge, and match records. You can also make SOAP calls to create, update, and search for tasks and perform tasks.

For more information about SOAP APIs, see the Informatica MDM Multidomain Edition 10.0.0 HotFix 2 Composite Services Guide.

Informatica Data Director
This section describes new features and enhancements to Informatica Data Director.

Task Manager
Use the Task Manager to organize, claim, review, and resolve tasks. In the task inbox, review your tasks and all unclaimed tasks. Click a task to open the associated business entity in a review panel to the right of the task inbox. In the review panel, review pending changes and take action on the review task. The Task Manager replaces the Tasks workspace that was present in previous versions.

The following image shows the Task Manager with a task selected:

1. Task inbox.
2. Review panel.

The Task Manager is part of the Entity 360 framework. To enable the Entity 360 framework in Informatica Data Director, set the cmx.e360.view.enabled parameter in cmxserver:properties to true. For more information about enabling the Entity 360 framework, see the Informatica MDM Multidomain Edition 10.0.0 HotFix 2 Informatica Data Director Implementation Guide.

For more information about the Task Manager, see the Informatica MDM Multidomain Edition 10.0.0 HotFix 2 Informatica Data Director User Guide.
**Task Inbox**

The new task inbox is a composite object component that can be added to or removed from an Entity 360 page. By default, the task inbox appears in the Start workspace and in the Task Manager. The task inbox supports tasks that arrive through the BE-AVOS adapter or the SA-AVOS adapter. The BE-AVOS adapter is a new BPM adapter that supports the composite object model. The SA-AVOS adapter is the legacy BPM adapter that supports the subject area model.

**Task Inbox Filters**

In the task inbox, you can show tasks based on filters. Use the quick filter at the top to switch between My Tasks and Available Tasks. Use the column filters to filter the list by an attribute, such as task type, priority, due date, status, or owner.

**Business Entities**

You can create and edit business entities in the Entity 360 view.

When you add or edit business entities, the Hub Server validates the data you enter according to the business rules that you configured.

For example, if you enter an address in an incorrect format, the MDM Hub validates the address and replaces it with the address correctly formatted.

For more information, see the *Informatica MDM Multidomain Edition 10.0.0 HotFix 2 Informatica Data Director User Guide*.

**Linked Images**

You can display linked images in the Entity 360 view. You can update the image URL in the Entity 360 view to change the linked image.

The following image shows an image URL and the linked image in the Entity 360 view:

For more information, see the *Informatica MDM Multidomain Edition 10.0.0 HotFix 2 Informatica Data Director User Guide*. 
Logging

All messages, errors, and full stack traces are stored in cmxserver.log in the application server.

For more information, see the Informatica MDM Multidomain Edition 10.0.0 HotFix 2 Informatica Data Director Implementation Guide.

Smart Search

You can enter search strings in English, Japanese, Korean, or Chinese. A smart search request searches the fields that match the language of the search string.

For more information about smart search, see the Informatica MDM Multidomain Edition 10.0.0 HotFix 2 Configuration Guide.

ActiveVOS

This section describes new ActiveVOS features in version 10.0.0 HotFix 2.
Automatic Task Assignment

To configure task assignment for the ActiveVOS workflow adapter that is based on composite objects, configure task assignment in the Informatica Data Director configuration file. The user can either assign the task directly or allow the Task Manager to assign tasks to users.

The following image shows the automatic task assignment option in the Edit Task dialog box:

For more information, see the Informatica MDM Multidomain Edition 10.0.0 HotFix 2 Informatica Data Director Implementation Guide.

Automatic Task Assignment Configuration Parameter

You can configure the time that automatic task assignment waits to start after the MDM Hub initializes. If you do not configure a delay, an error can occur when you create tasks.

The following parameter is added to cmxserver.properties:

```
sip.task.assignment.start.delay=10
```
The value of `sip.task.assignment.start.delay` is the time in minutes that automatic task assignment waits to start after the MDM Hub initializes. Default is 10 minutes.

For more information, see the **Informatica MDM Multidomain Edition 10.0.0 HotFix 2 Configuration Guide**.

**ActiveVOS Workflow Adapter based on Composite Objects**

You can configure a workflow engine to use the ActiveVOS workflow adapter that is based on composite objects. The ActiveVOS workflow adapter based on composite objects operates using composite services. You must use the ActiveVOS workflow adapter based on composite objects as the primary workflow engine to configure automatic task assignment and direct task assignment. The name of the ActiveVOS workflow adapter based on composite objects is **BE ActiveVOS**.

Informatica recommends that you use the composite object ActiveVOS workflow engine as the primary workflow engine. Workflow engines based on third-party BPM adapters or the Siperian adapter are deprecated. Informatica will continue to support the deprecated adapters, but they will become obsolete and Informatica will drop support in a future release.

The following image shows the ActiveVOS workflow adapter based on composite objects selected as the primary workflow for the `ds_ui1_siperian ORS`:

![Workflow Manager]

For more information, see the **Informatica MDM Multidomain Edition 10.0.0 HotFix 2 Configuration Guide** and the **Informatica MDM Multidomain Edition 10.0.0 HotFix 2 Upgrade Guide**.

**Direct Task Assignment**

You can assign a task to a specific user. When you assign a task, Informatica Data Director displays a list of the users to whom you can assign the task. Use the ActiveVOS workflow adapter that is based on composite objects to enable direct task assignment. Direct task assignment is not available for the ActiveVOS workflow adapter that is based on subject areas.

For more information, see the **Informatica MDM Multidomain Edition 10.0.0 HotFix 2 Informatica Data Director Implementation Guide**.
Secure Communication

ActiveVOS can use the HTTP Secure (HTTPS) protocol to securely communicate with the MDM Hub. A new parameter is available in the Hub Console Workflow Manager to set the workflow engine communication protocol to http or https.

The following code sample shows task assignment configuration for a subject area:

```xml
<taskAssignmentConfig task="Update">
  <securityRole roleUid="DataSteward" />
</taskAssignmentConfig>
<taskAssignmentConfig task="ReviewNoApprove">
  <securityRole roleUid="Manager" />
</taskAssignmentConfig>
<taskAssignmentConfig task="FinalReview">
  <securityRole roleUid="SrManager" />
</taskAssignmentConfig>
<taskAssignmentConfig task="Notification">
  <securityRole roleUid="DataSteward" />
</taskAssignmentConfig>
<taskAssignmentConfig task="Merge">
  <securityRole roleUid="DataSteward" />
</taskAssignmentConfig>
<taskAssignmentConfig task="Unmerge">
  <securityRole roleUid="DataSteward" />
</taskAssignmentConfig>
```

For more information, see the *Informatica MDM Multidomain Edition 10.0.0 HotFix 2 Upgrade Guide*.

Task Assignment Configuration in Informatica Data Director Configuration File

You can configure task assignment for each subject area in the Informatica Data Director Configuration file.

The following code sample shows task assignment configuration for a subject area:

```xml
<taskAssignmentConfig task="Update">
  <securityRole roleUid="DataSteward" />
</taskAssignmentConfig>
<taskAssignmentConfig task="ReviewNoApprove">
  <securityRole roleUid="Manager" />
</taskAssignmentConfig>
<taskAssignmentConfig task="FinalReview">
  <securityRole roleUid="SrManager" />
</taskAssignmentConfig>
<taskAssignmentConfig task="Notification">
  <securityRole roleUid="DataSteward" />
</taskAssignmentConfig>
<taskAssignmentConfig task="Merge">
  <securityRole roleUid="DataSteward" />
</taskAssignmentConfig>
<taskAssignmentConfig task="Unmerge">
  <securityRole roleUid="DataSteward" />
</taskAssignmentConfig>
```

Resource Kit

This section describes new Resource Kit features in version 10.0.0 HotFix 2.
Sample Informatica Data Director Configuration

You can use the IDDConfig_ActiveVOS_BE.xml file in \<MDM Hub installation directory>\<hub\resourcekit\samples\BDD\ to set up the Informatica Data Director application. The file contains task configuration for the Informatica ActiveVOS workflow adapter that is based on composite objects. The file is configured for the sample schema that is included in the Resource Kit.

For more information, see the Informatica MDM Multidomain Edition 10.0.0 HotFix 2 Resource Kit Guide.

ActiveVOS Projects

The BPM sample folder contains ActiveVOS projects for the ActiveVOS workflow adapter that is based on composite objects.

The file BeMDMWorkflow.zip in the folder \<MDM Hub installation directory>\<hub\resourcekit\samples\BPM contains the BeMDMWorkflow project and the BeCommonMDM project. The BeMDMWorkflow project contains predefined business process execution language definitions and predefined roles. The BeCommonMDM project contains supporting resources. The projects work with the ActiveVOS workflow adapter that is based on composite objects.

For more information, see the Informatica MDM Multidomain Edition Informatica Data Director - Informatica ActiveVOS Integration Guide.

Changes (10.0.0 HotFix 2)

This section describes changes in version 10.0.0 HotFix 2.

Schema Tool User Interface

Effective in version 10.0.0 HotFix 2, you use the Allow missing child records option to indicate whether parent records must undergo matching based on the existence of records in child base objects. The option is in the Add Path Component dialog box of the Schema tool.

Previously, you used the Check for missing children option to indicate whether parent records must undergo matching based on the existence of records in child base objects.

Entity 360 Default Configuration

If you do not configure the layout or components for the Entity 360 view, Informatica Data Director generates a default configuration for you.

For more information, see the Informatica MDM Multidomain Edition 10.0.0 HotFix 2 Informatica Data Director Implementation Guide.

Send for Approval

Effective in version 10.0 HotFix 2, a user does not need to click Send for Approval when they create or update a business entity. When a user creates or updates a business entity, a default approval workflow is triggered upon clicking save.

Previously, users had to decide whether to click Save or to click Send for Approval.
ActiveVOS

This section describes changes to ActiveVOS in version 10.0.0 HotFix 2.

Task Configuration in Informatica Data Director Configuration File

Effective in version 10.0.0 HotFix 2, the function of the task configuration parameters in the Informatica Data Director configuration file has changed. If you use the ActiveVOS workflow adapter, update the IDD configuration file after you upgrade.

You can configure the following task parameters in the Informatica Data Director configuration file:

- **taskType**
  - Describes the task type.

- **taskTypeID**
  - The process name.

- **name**
  - The taskType name. The name must be the same as the name of the task in the ActiveVOS workflow configuration.

You can use the following code to configure the tasks for the ActiveVOS adapter based on subject areas in the Informatica Data Director configuration file:

```xml
<tasks includeUnassignedTasks="true">
<!-- Task Definitions -->
	<taskType taskTypeID="IDDMergeTask" name="AVOSMerge" displayName="Merge"
            creationType="MERGE">
		<description>Merge two records together.</description>
	</taskType>

	<taskType taskTypeID="IDDUnmergeTask" name="AVOSUnmerge" displayName="Unmerge"
            creationType="UNMERGE">
		<description>Unmerge an XREF record from a Base Object record.</description>
	</taskType>

	<taskType taskTypeID="IDDOneStepApprovalTask" name="AVOSFinalReview"
            displayName="Final review" creationType="NONE">
		<description>Update a record and require the user to go through an approval process
                before completing the task.</description>
	</taskType>

	<taskType name="Notification" displayName="Notification" creationType="NONE">
		<description>Notification step in the workflow</description>
	</taskType>

	<taskType taskTypeID="IDDTwoStepApprovalTask" name="AVOSReviewNoApprove"
            displayName="Review no approve"
            creationType="NONE" defaultApproval="true">
		<description>Update a record and require the user to go through an approval process
                before completing the task.</description>
	</taskType>

	<taskType taskTypeID="IDDUpdateWithApprovalTask" name="Update" displayName="Update"
            creationType="CREATE">
		<description>Update a record and do not require the user to go through an approval
                process before completing the task. The approval step is optional.</description>
	</taskType>
	</tasks>
```
You can use the following code to configure ActiveVOS tasks based on composite objects in the Informatica Data Director configuration file:

```xml
<tasks includeUnassignedTasks="true">
<!-- Task Definitions -->
  <taskType taskId="BeMergeTask" name="AVOSBeMerge" displayType="Merge">
    <creationType>"MERGE"</creationType>
    <description>Merge two records together.</description>
  </taskType>
  <taskType taskId="BeUnmergeTask" name="AVOSBeUnmerge" displayType="Unmerge">
    <creationType>"UNMERGE"</creationType>
    <description>Unmerge an XREF record from a Base Object record.</description>
  </taskType>
  <taskType taskId="BeOneStepApprovalTask" name="AVOSBeFinalReview" displayType="Final review">
    <creationType>"NONE" defaultApproval="true">
    <description>Update a record and require the user to go through an approval process before completing the task.</description>
  </taskType>
  <taskType name="AVOSBeNotification" displayType="Notification" creationType="NONE">
    <description>Notification step in the workflow</description>
  </taskType>
  <taskType taskId="BeTwoStepApprovalTask" name="AVOSBeReviewNoApprove" displayType="Review no approve" creationType="NONE">
    <description>Update a record and require the user to go through an approval process before completing the task.</description>
  </taskType>
  <taskType taskId="BeUpdateWithApprovalTask" name="AVOSBeApprove" displayType="Create">
    <creationType>"CREATE"</creationType>
    <description>Update a record and do not require the user to go through an approval process before completing the task. The approval step is optional.</description>
  </taskType>
</tasks>
```

Previously, you could use the following code to configure ActiveVOS tasks based on subject areas in the Informatica Data Director configuration file:

```xml
<tasks includeUnassignedTasks="true">
  <taskType creationType="MERGE" dataUpdateType="ACTIVE" defaultApproval="false" displayType="NORMAL" name="MergeWorkflow" pendingBVT="false" taskId="IDDMergeTask">
    <description>Merge two records together.</description>
  </taskType>
  <taskType creationType="UNMERGE" dataUpdateType="ACTIVE" defaultApproval="false" displayType="NORMAL" name="UnmergeWorkflow" pendingBVT="false" taskId="IDDUnmergeTask">
    <description>Unmerge an XREF record from a Base Object record.</description>
  </taskType>
  <taskType creationType="NONE" dataUpdateType="ACTIVE" defaultApproval="false" displayType="NORMAL" name="OneStepApprovalWorkflow" pendingBVT="false" taskId="IDDOneStepApprovalTask">
    <description>Update a record and require the user to go through an approval process before completing the task.</description>
  </taskType>
  <taskType creationType="NONE" dataUpdateType="ACTIVE" defaultApproval="false" displayType="NORMAL" name="TwoStepApprovalWorkflow" pendingBVT="false" taskId="IDDTwoStepApprovalTask">

Changes (10.0.0 HotFix 2)  91
The build.properties File

Effective in version 10.0.0 HotFix 2, the upgrade process updates the build.properties file located in <MDM Hub installation directory>\hub\server\bin.

Previously, the upgrade process did not update the build.properties file.

Deprecated SIF APIs

Effective in version 10.0.0 HotFix 2, the following SIF APIs are deprecated:

- Link
- Link2

Release Tasks (10.0.0 HotFix 2)

This section describes the release tasks in version 10.0.0 HotFix 2.
Entity 360

This section describes release tasks for Entity 360 in version 10.0.0 HotFix 2.

Performance Optimization

To improve performance significantly for Entity 360 and Informatica Data Director, add the following parameter to the application server Java virtual machine:

- On JBoss, add the option for JIT code cache size.
  ```
  -XX:ReservedCodeCacheSize=256m
  ```
- On WebLogic, add the option for JIT code cache size.
  ```
  -XX:ReservedCodeCacheSize=256m
  ```
- On WebSphere, add the option for reserved code cache size.
  ```
  -XX:codecachetotal=256m
  ```

For more information, see the Informatica MDM Multidomain Edition 10.0.0 HotFix 2 Installation Guide.

ActiveVOS

This section describes release tasks for ActiveVOS in version 10.0.0 HotFix 2.

Create a Trusted User

Effective in version 10.0.0 HotFix 2, a trusted user facilitates secure communication between the MDM Hub and ActiveVOS. When the MDM Hub sends a request to ActiveVOS, the request contains the credentials of the trusted user.

Before you upgrade the MDM Hub Server, you must create a user with the role of abTrust in the application server. The user with the abTrust role is trusted by the MDM Hub and by ActiveVOS. If you do not configure a trusted user, ActiveVOS cannot authenticate requests from the MDM Hub.

To add a user with the abTrust role to the application server, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 2 Upgrade Guide.

Update the IDD Configuration for the ActiveVOS Adapter based on Subject Areas

To use the ActiveVOS workflow adapter based on subject areas with the Task Manager, update the Informatica Data Director configuration file. If you do not update the Informatica Data Director configuration file, you cannot use the Task Manager to create tasks.

The following code sample shows how to configure ActiveVOS tasks based on subject areas in the Informatica Data Director configuration file:

```xml
<tasks includeUnassignedTasks="true">
  <!-- Task Definitions -->
  <taskType taskId="IDDMergeTask" name="AVOSMerge" displayName="Merge"
    creationType="MERGE">
    <description>Merge two records together.</description>
  </taskType>

  <taskType taskId="IDDUnmergeTask" name="AVOSUnmerge" displayName="Unmerge"
    creationType="UNMERGE">
    <description>Unmerge an XREF record from a Base Object record.</description>
  </taskType>

  <taskType taskId="IDDOneStepApprovalTask" name="AVOSFinalReview"
    displayName="Final review" creationType="NONE">
```

Release Tasks (10.0.0 HotFix 2)  93
<description>Update a record and require the user to go through an approval process before completing the task.</description>
</taskType>

<taskType name="Notification" displayName="Notification" creationType="NONE">
<description>Notification step in the workflow</description>
</taskType>

<taskType taskId="IDDTwoStepApprovalTask" name="AVOSReviewNoApprove" displayName="Review no approve" creationType="NONE" defaultApproval="true">
<description>Update a record and require the user to go through an approval process before completing the task.</description>
</taskType>

<taskType taskId="IDDDefaultWithApprovalTask" name="Update" displayName="Update" creationType="CREATE">
<description>Update a record and do not require the user to go through an approval process before completing the task. The approval step is optional.</description>
</taskType>
</tasks>
New Features, Changes, and Release Tasks (10.0.0 Hot Fix 1)

This chapter includes the following topic:

- New Features (10.0.0 HotFix 1), 95

New Features (10.0.0 HotFix 1)

This section describes new features in version 10.0.0 HotFix 1.

Informatica MDM Hub

This section describes new features and enhancements to Informatica MDM Hub.

Product Usage Toolkit

You can configure MDM Multidomain Edition to send customer support management files containing information about your MDM environment to Informatica.

For more information about configuring the Product Usage Toolkit for MDM environment information collection, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 1 Configuration Guide.

Note: In Informatica MDM Multidomain Edition Version 9.7.0 HotFix 2, the Product Usage Toolkit was called DiscoveryIQ.

Timeline Rules

When you use a load or put operation on a base object for which you track data change events, the MDM Hub enforces the following new timeline rules:

- When the data in an existing cross-reference record changes, the record is updated but a new record version is not generated.
- When the effective period of the existing cross-reference record changes, the record is updated but a new record version is not generated.
- When a cross-reference record with a new effective period is added for a record, a new record version is generated.

For more information about the timeline rules, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 1 Configuration Guide.
Load Multiple Versions of a Record In a Batch Job

You can load multiple versions of a record from a staging table to the cross-reference table of a base object in one batch job.

To load multiple versions of a record, configure contiguity of effective periods of records in the base object. Also, sequence the versions of a record during the load to the base object, by setting the cmx.server.batch.load.smart_resequencing property to true. You set the cmx.server.batch.load.smart_resequencing property in the cmxserver.properties file.

For more information about loading multiple versions of a record in a batch job, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 1 Configuration Guide.

Decrease the Effective Periods of Record versions in Batch Jobs

You can decrease the effective periods of record versions by maintaining contiguity of record versions in a batch job.

For more information about decreasing effective periods of record versions, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 1 Configuration Guide.

Staging Table System Columns

Effective in version 10.0.0 HotFix 1, system columns are added to the staging tables to enhance the MDM Hub capability to track data change events.

The following system columns are added to the staging tables:

PERIOD_REFERENCE_TIME
  Specifies a reference date within an effective period to identify a record version that needs to be updated.

TIMELINE_ACTION
  Specifies the action to perform on a record version during the load process.

SIF APIs

Effective in version 10.0.0 HotFix 1, elements are added to the Put and cleansePut SIF APIs. The elements specify the timeline actions, reference time for an effective period, and fills gaps between record versions.

Previously, the elements to specify the timeline actions, reference time for an effective period, and to fill gaps between record versions were not available.

Informatica Data Director

This section describes new features and enhancements to Informatica Data Director.

Informatica Data Director User Interface

The Informatica Data Director user interface contains the following new options in the Action menu to edit and add record versions:

Edit Data
  Use to edit data in an existing record, you cannot change the effective period for the record.
Edit Period Dates

Use to edit the effective period for a record.

Create New Period

Use to add a record version that is applicable for a new effective period.

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 1 Informatica Data Director User Guide.

Smart Search

Smart search uses the SolrCloud feature of Apache Solr to improve the performance of the search requests. SolrCloud uses a cluster of Solr servers to provide distributed indexing and search. The performance results can vary based on your environment and the smart search configuration.

For more information about smart search, see the Informatica MDM Multidomain Edition Version 10.0.0 HotFix 1 Configuration Guide.

Entity 360 Lookup Links

In the Entity 360 data view, you can configure the lookup values to link to the lookup composite object. Users can click the lookup value to view the lookup composite object.

For more information about configuring lookup links, see the Informatica MDM Multidomain Edition Informatica Data Director Version 10.0.0 HotFix 1 Implementation Guide.
New Features, Changes, and Release Tasks (10.0.0)

This chapter includes the following topics:

- New Features (10.0.0), 98
- Changes (10.0.0), 100
- Release Tasks (10.0.0), 101

New Features (10.0.0)

This section describes new features in version 10.0.0.

Informatica MDM Hub

This section describes new features and enhancements to Informatica MDM Hub.

Languages

The following new features related to languages are available:

- When you launch the Hub Console, you can choose to display the elements of the user interface in any supported localized language.
- You can configure the MDM Hub to display all elements of the interface in Spanish and Brazilian Portuguese.

For more information about languages, see the Informatica MDM Multidomain Edition Version 10.0.0 Installation Guide.

Multiple MDM Hub Master Database

You can configure multiple MDM Hub Master Databases in a single database instance. If you configure more than one MDM Hub Master Database, install an MDM Hub instance for each MDM Hub Master Database.

For more information about multiple MDM Hub Master Database configuration, see the Informatica MDM Multidomain Edition Version 10.0.0 Installation Guide.
Informatica Platform Staging

You can integrate the MDM Hub with Informatica platform to run the stage process by using the Data Integration Service.

For more information about the Informatica platform staging, see the Informatica MDM Multidomain Edition Version 10.0.0 Configuration Guide.

Informatica ActiveVOS Server

You can install and use the ActiveVOS Server as your workflow engine. Your fulfillment email includes a link to the installer, and the MDM Multidomain Edition package includes a license for the ActiveVOS Server. When you install the ActiveVOS Server as part of the Hub Server installation, the installer performs an embedded installation of ActiveVOS Server. The embedded installation configures an MDM Identity Service for ActiveVOS and deploys predefined MDM workflows and roles to the ActiveVOS Server.

For more information, see the Informatica MDM Multidomain Edition Installation Guide.

Composite Objects

A composite object consists of a nested structure of base objects. Composite objects are required to view all the information that relates to the root base object in Entity 360 view. Composite objects in the MDM Hub are conceptually the same as subject areas in Informatica Data Director.

Composite Services

You can make composite service calls to create, update, delete, and search for composite object records. You can make Representational State Transfer (REST) composite service calls or Enterprise JavaBean (EJB) composite service calls.

For more information about composite services, see the Informatica MDM Multidomain Edition Version 10.0.0 Composite Services Guide.

Dynamic Data Masking

Dynamic Data Masking is a data security product that operates between the MDM Hub and a database to prevent unauthorized access to sensitive information. Dynamic Data Masking intercepts requests sent to the database and applies data masking rules to the request to mask the data before it is sent back to the MDM Hub.

For more information about Dynamic Data Masking, see the Dynamic Data Masking documentation on the Informatica My Support Portal:


Security Guide


Informatica Data Director

This section describes new features and enhancements to Informatica Data Director.
Smart Search
You can perform a smart search to find data within a specific collection or all the collections of composite objects based on a search string. The Informatica Data Director application displays the matching fields that can be searched and displayed. The results are ranked based on how closely the results match the search string. You can apply filters to narrow down the results. You can view the details of a result in the Entity 360 view, the data view, and the hierarchy view.

Languages
You can configure Informatica Data Director to display all elements of the interface in Spanish and Brazilian Portuguese.

Entity 360 View
You can use the Entity 360 view to display the records in a composite object. You can see all levels of records in the Entity 360 view. You can configure the layout of the components in the Entity 360 view. You can configure the Entity 360 view to display additional information that relates to the composite object records such as matches and related records. Entity 360 view is disabled by default.

Global Properties
You can use the following global properties to control the run-time behavior of the Informatica Data Director application:

IDD2COCSConverter.prefixCoNames
When the Informatica Data Director configuration is converted to a composite object configuration, determines if a prefixed subject area name is used for the composite object name.

For more information, see the Informatica MDM Multidomain Edition Version 10.0.0 Informatica Data Director Implementation Guide

Resource Kit
This section describes new features and enhancements to the Resource Kit.

Java and JavaScript Code Samples for Making Composite Service Calls
You can use the Java code samples to run Enterprise Java Bean (EJB) composite service calls. You can use the JavaScript code samples to run Representational State Transfer (REST) composite service calls.

The code samples are in the following Resource Kit location: C:\<MDM Hub installation directory>\hub\resourcekit\samples\COS\n
For more information about the code samples, see the Informatica MDM Multidomain Edition Version 10.0.0 Resource Kit Guide.

Changes (10.0.0)
This section describes changes in version 10.0.0.
Informatica MDM Hub

This section describes changes to Informatica MDM Hub in version 10.0.0.

Application Server Memory Settings

Effective in version 10.0, the application server memory settings for all application servers must be set to the following parameters before installing or upgrading MDM Multidomain Edition.

**Note:** Effective in version 10.2, you can omit the following deprecated Java options: 
-XX:PermSize and 
-XX:MaxPermSize.

**JBoss and Weblogic**

-XX:PermSize=256m -XX:MaxPermSize=1024m
-XX:PermSize=256m -XX:MaxPermSize=1024m

**WebSphere**

-XX:PermSize=256m -XX:MaxPermSize=1024m
-XX:PermSize=256m -XX:MaxPermSize=1024m

Previously, the application server memory settings were set to the following parameters:

**JBoss**

-XX:PermSize=256m -XX:MaxPermSize=1024m

**Weblogic**

-XX:PermSize=256m -XX:MaxPermSize=1024m

**WebSphere**

-XX:PermSize=128m -XX:MaxPermSize=124m

Custom MDM Hub Master Database User Name

Effective in version 10.0.0, you can create a custom MDM Hub Master Database user name. The default is cmx_system.

Previously, you could create a custom MDM Hub Master Database user name only in the IBM DB2 environment.

For more information about custom MDM Hub Master Database user name, see the Informatica MDM Multidomain Edition Version 10.0.0 Installation Guide.

Release Tasks (10.0.0)

This section describes the release tasks in version 10.0.0.

Informatica MDM Hub

This section describes release task for Informatica MDM Hub in version 10.0.0.

Proxy Role

Effective in version 10.0.0, the Operational Reference Store that you create does not contain a proxy role.

If you upgrade to version 10.0.0, the existing proxy roles convert to ordinary roles that you can delete.
Siperian BPM Workflow Engine

Effective in version 10.0.0, the Siperian BPM workflow engine is deprecated. Previously, the Siperian BPM workflow engine was the default workflow engine in the MDM Hub. Informatica recommends that you install the ActiveVOS Server as part of the Hub Server installation. The ActiveVOS Server is the new default workflow engine.

You can continue to use Siperian BPM with this release. Before you upgrade, make a note of the settings defined for the Siperian BPM workflow engine. After you upgrade, define a Siperian BPM workflow engine with the same name and settings that you used in the previous release. Verify that the Operational Reference Stores use the Siperian BPM workflow engine.

If you want to switch workflow engines, first you need to close open tasks. You cannot migrate open tasks from one workflow engine to another.

You have the following options for moving from Siperian BPM to ActiveVOS Server:

- Before you upgrade to this release, close all open tasks. After you upgrade, all upgraded Operational Reference Stores use the ActiveVOS Server as the workflow engine. You need to update your IDD applications to use ActiveVOS Server task definitions.
- If you want to move to ActiveVOS Server after upgrading to this release, you can switch workflow engines after the upgrade. When you are ready to switch, close all open tasks. For each Operational Reference Store, change the workflow engine from Siperian BPM to the ActiveVOS Server. Update your IDD applications to use ActiveVOS Server task definitions.

For instructions, see Informatica MDM Multidomain Edition Version 10 HotFix 1 Informatica Data Director Implementation Guide.

EJP Protocol for Services Integration Framework Requests

Effective in version 10.0.0, the EJB2 protocol is obsolete and you must use EJB3 protocol to communicate with the MDM Hub through the Services Integration Framework (SIF) requests. If you use the EJB protocol to communicate with the MDM Hub through the Services Integration Framework (SIF) requests, perform the following tasks:

1. Replace the existing SiperianClient library classes with the latest version of the SiperianClient library classes.
   
   The siperian-api.jar file located in the following directories contains the SiperianClient library classes:
   
   - `<Resource Kit Installation Directory>\sdk\sifsdk\lib`
   - `<MDM Hub Installation Directory>\hub\server\lib`

2. If you use custom JNDI lookup methods, update the lookup methods so that the methods conform to the EJB3 conventions.

Informatica Data Director

This section describes release tasks for Informatica Data Director in version 10.0.0.

Charts

Effective in version 10.0.0, ILOG charts are not supported for new customers or existing customers who previously licensed IBM ILOG chart software.

Informatica recommends that you use Jaspersoft software to graphically represent data in Informatica Data Director.
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