



Informatica® MDM Registry Edition
10.2

Data Director Implementation Guide

Informatica MDM Registry Edition Data Director Implementation Guide
10.2
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Preface

The *MDM-RE Implementation Guide* provides an overview of the following:

- concepts that are useful for working with the Informatica Data Director (IDD) for the Informatica MDM Registry Edition
- implementation process for IDD applications, including specific configuration tasks
- IDD configuration using the IDD Configuration Manager
- manual IDD configuration
- supplemental information, such as IDD application components and locale

This document is intended to be used by customers, partners, and Informatica Professional Services consultants as a hands-on implementation guide for all IDD deployments.

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CHAPTER 1

Introduction

This chapter includes the following topics:

- [Overview, 7](#)
- [IDD Concepts, 7](#)

Overview

Informatica Data Director (IDD) is a data management application that is used to view and manage the data stored in the Registry Edition repository.

Informatica Data Director is highly configurable, with an easy-to-use interface based on your organization's data model. The Informatica Data Director for the Informatica MDM Registry Edition enables business users to effectively manage and consume master data.

Functionality	Description
Manage	Manage duplicates, resolve matches.
Consume	Search all master data from a central location, view master data details.

Prerequisites

This document requires familiarity with the Informatica MDM Registry Edition architecture and an understanding of all the Informatica MDM Registry Edition solution components in your deployment. For more information, refer to your Informatica MDM Registry Edition product documentation.

IDD Concepts

This section describes core concepts that are useful for working with IDD.

IDD Application

An IDD application is the main configuration and deployment unit for IDD implementations. An IDD application is what business users see when they launch and log onto IDD.

IDD Configuration Manager

The IDD Configuration Manager is a web-based utility used to add, modify and manage IDD applications. For more information, refer to the section *IDD Configuration Manager* later in this document.

IDD Configuration Files

An IDD application includes a collection of configuration files: an IDD configuration file (XML), resource bundles, internationalization message bundles, online help and other auxiliary files. These can be loaded or modified in the IDD Configuration Manager or exported and edited manually. For a complete description of these files, see *Appendix A: Application Components* later in this document.

Physical MDM-RE System

Each IDD application is bound to a MDM-RE System. Physical MDM-RE System should be registered in the IDD Configuration Manager before an IDD application can be created for this System. To register a Physical System it is necessary to provide information required to connect to the MDM-RE System and MDM-RE Secure Search Server.

Logical MDM-RE System

An IDD application configuration declares one or more logical MDM-RE Systems. A logical MDM-RE System is an IDD configuration pointer to a physical MDM-RE System registered in the IDD Configuration Manager. Essentially, a Logical MDM-RE System consists of a logical name and a reference to the Physical MDM-RE System.

Identity Table (IDT)

IDD representation of Physical MDM-RE Identity Table (configured in the “idt-definition” section of the System Definition File (SDF)). An IDD application may include all or only a subset of Identity Tables available in the Physical MDM-RE System.

Cluster

IDD representation of MDM-RE Clusters created with Persistent-ID (Dynamic Clustering) feature of MDM-RE. All clusters configured in Physical MDM-RE System for an Identity Table are available in the IDD application. A cluster object consists of a preferred (“result”) record and one or more source member records. Cluster objects are distinguished by cluster types (Persistent-ID provided in the System Definition File). Refer to the *MDM-RE Design Guide* for more details. A cluster in IDD is displayed as a tab inside the Cluster Container tab.

A number of presentation options for a cluster type are configurable in IDD Configuration Manager.

Cluster Container

A container for one or more cluster objects that all share a common record. There are 3 types of Cluster Containers:

- source record based – contains all clusters that have provided source record as its member;
- preferred record based – since a preferred record belongs only to one Cluster object, preferred record based Cluster Container contains only one Cluster object;
- relationship view link based – consists of two Cluster objects that compose a link in the relationship view

Starting record

A Starting Record is the record from which the Cluster Container was generated. It is distinguished in Cluster Data View by blue background. A Starting Record can be either a preferred or a source record.

CHAPTER 2

Quick Start Guide

This chapter includes the following topics:

- [Overview, 9](#)
- [Step 1: Register the MDM-RE System, 9](#)
- [Step 2: Auto-Generate an IDD application, 10](#)
- [Step 3: Optional Configuration, 10](#)
- [Step 4: Test the IDD application, 10](#)

Overview

This section describes the quickest way to create and start using the IDD application. This section assumes that the Informatica MDM-RE System has been configured, the IDT loaded and Clusters generated.

These steps are performed using the IDD Configuration Manager. The Configuration Manager is available at the following URL:

```
http://<hostname>[:<port>]/idd/config
```

where

<hostname>

It is the name of the machine where the IDD is hosted

<port>

Specifies the port number (if blank, defaults to port number 80). The default port for Tomcat is 8080.

When an IDD application user launches this URL, the IDD application displays a login page. At this time, there is no authentication process, any user name can be provided.

Step 1: Register the MDM-RE System

This step connects IDD to a Rulebase and System.

1. Select **MDM-RE Systems** from the tree on the left.
2. Select the **Add** button in the panel on the right.
3. Fill in the MDM-RE connection information in the form.

4. Select the **Test** button to test the connection. If there are errors, correct the connection information.
5. Select the **Save** button to save this MDM-RE System.

Step 2: Auto-Generate an IDD application

This step reads the metadata from the selected MDM-RE System and auto-generates an IDD application.

1. Select an MDM-RE System from the table of systems in the MDM-RE Systems panel.
2. Select the **Create App** button.
3. Enter the **Name**, **Display Name** and **Description** for the application and select **OK**.

Step 3: Optional Configuration

You can edit optional setting for the generated IDD application. For example you can specify a display name for Identity Tables, Searches and Clusters. It can be useful to provide names that the data steward can relate to. Refer to the *Edit Application* section for more details.

Step 4: Test the IDD application

The IDD application is available at the following URL:

```
http://<hostname>[:<port>]/idd
```

where

<hostname>

It is the name of the machine where the IDD is hosted.

<port>

Specifies the port number (if blank, defaults to port number 80). The default port for Tomcat is 8080.

If there are multiple IDD applications deployed, you are first prompted to choose the IDD application to use. Then a login page is displayed. At this time, there is no authentication process, any user name can be provided.

To troubleshoot any issues, you can use the `idd.log` file located in the following directory:

- On Windows. <MDM Registry Edition Installation Directory>\tomcat\logs
- On UNIX. <MDM Registry Edition Installation Directory>/tomcat/logs

CHAPTER 3

IDD Configuration Manager

This chapter includes the following topics:

- [Overview, 11](#)
- [Launching the IDD Configuration Manager, 11](#)
- [Home Page, 12](#)
- [Add an IDD Application, 13](#)
- [Import an IDD Application Configuration, 13](#)
- [Validation, Application State and Deployment, 13](#)
- [Physical MDM-RE Systems, 15](#)
- [Auto-Generation of an IDD Application, 16](#)
- [Edit Application, 16](#)
- [Configuring Identity Tables, 19](#)
- [Log File, 23](#)

Overview

The IDD Configuration Manager is used to add, modify and manage IDD applications. An IDD application consists of an XML configuration file, resource bundles, help files, and other components, as described in *Appendix A: Application Components* later in this document. A complete IDD application can be imported or exported as a ZIP file containing all of these components.

The IDD Configuration Manager is designed to be used for creating and maintaining the configuration of an IDD application.

Launching the IDD Configuration Manager

The Configuration tool is available at the following URL:

`http://<hostname>[:<port>]/idd/config`

where

<hostname>

This is the name of the machine where the IDD is hosted.

<port>

Specifies the port number (if blank, defaults to port number 80).

When an IDD application user launches this URL, the IDD application displays a login page.

Home Page

The IDD home page consists of the following elements:

Element	Description
Applications list	List of existing IDD applications.
Command Bar	Available commands (described below)
Application Summary	Summary of existing IDD applications, including the following properties: <ul style="list-style-type: none">- logical name and display name- validation status- deployment status- URL to launch the IDD application

The IDD command bar contains the following commands:

Command	Description
Add	Add a new IDD application.
Edit	Edit the configuration of the selected IDD application.
Delete	Delete the selected IDD application.
Export	Export an IDD application configuration (ZIP file).
Validate	Validate the selected IDD application.
Application State	Change the state of the IDD application: full, limited, or not deployed.
Import	Import an IDD application configuration (see below for formats).
Re-deploy	Removes and redeploys an IDD application.
Clear Cache	Clears the local IDD cache for the selected IDD application. This cache stores MDM-RE System metadata and should be cleared if there have been changes in this metadata.

Add an IDD Application

The Add command is used to create a new IDD application. A new IDD application is defined by its name, display name and description. After adding the application, choose the Edit command to make more detailed changes to the application configuration.

Import an IDD Application Configuration

The Import command is used to create or update an IDD application. It provides the following three import options - two for importing a full application and one for importing a component into an existing application.

Import Option	Description
Import IDD configuration only (XML)	Create a new IDD application by importing the IDD configuration XML. This can be used to replace an existing IDD application with the same name. If so, the existing application is entirely replaced (as if you performed a delete followed by an import).
Import complete IDD application (Zip)	Create a new IDD application by importing a Zip file containing the various component files (XML, resource bundles, help files, and so on).
Import to existing IDD application	Update an existing IDD application by importing an individual file. This is used to add or replace any of the component files of the IDD application. See <i>Appendix A: Application Components</i> later in this document for a description the application files.

Validation, Application State and Deployment

The following persisted parameters determine how and whether an IDD application is deployed.

Parameter	Description
valid_ind	Contains the most recent validation status for the application. The validation status is a single value that represents the highest (most severe) error that has been found.
active_ind	Managed directly by the user to reflect the intention for deployment of the application.

Validation

An IDD application configuration is loosely coupled with the metadata in an MDM-RE System. The configuration contains references to objects in an MDM-RE System. Changes to an MDM-RE System (the addition, modification, or removal of Identity Tables, Searches, and so on) are not automatically reflected in the IDD configuration. For this reason, the IDD validation process is necessary and must be repeated periodically.

Validation is run in the following circumstances:

- when requested by the user in the IDD Configuration Manager

- when importing an IDD configuration
- before deploying an application when the application server is started up

The following validation levels are available.

valid_ind	Validation Level	Description
-1	Not Validated	The IDD application has not been validated.
0	No Error	No errors or warnings were found during validation.
1	Information	Provides information to the user. No configuration changes are required.
2	Warning	A configuration might need to be changed, but should cause no run-time problems.
3	Error	A configuration error must be fixed. Run-time problems can be expected.
4	Critical Error	Same as Error, but indicates a problem that requires even more urgent attention.
5	Fatal Error	An error that prevents the IDD application from running at all. The application will not be deployed before the error has been addressed.

Application State

The application state is controlled by the user in the IDD Configuration Manager. It stores the intended deployment for the IDD application.

Note: An IDD application can be deployed even if the configuration contains errors. Only fatal errors (described in the previous section) will prevent an IDD application from being deployed. It can be useful to deploy an IDD application that contains errors when building an application, allowing the implementer to test parts of the configuration while other parts are incomplete.

active_ind	Name	Description
-1	Not Deployed	IDD application is not deployed. Useful when the application is in development. Changes can be made and saved without the additional overhead of deploying the application.
0	Limited Deployment	IDD application is deployed, but the application will not be displayed in the list of available applications. You must access the application using its full URL (<code>http://<hostname>[:<port>]/bdd?bdd_name=name</code>).
1	Full Deployment	IDD application is deployed for full use. It is displayed in the list of applications and users can run the application.

Deployment

Deployment is the process of taking an IDD configuration and making it available as an application. An application is not deployed if `active_ind` is -1 for that application.

Deployment occurs in response to the following events:

Event	Description
Application Server Startup	All IDD applications with <code>active_ind</code> that is not -1 are first validated. If the validation level is not Fatal Error, then the IDD application is deployed. At this time, only a partial validation is run to check for fatal errors.
Import / Save	Any time an IDD application is imported or saved, it is also deployed unless its <code>active_ind</code> is -1.
Re-deployment	User re-deploys an IDD application.

Physical MDM-RE Systems

When creating an IDD application, the first task to complete is the registration of the Physical MDM-RE System so that IDD can connect to it (registration stores connection settings in the IDD database).

Registered MDM-RE Systems are displayed in the tree on the left. When '**MDM-RE Systems**' is selected in the tree the right panel displays a table of registered Systems and following commands are available at the Command toolbar:

Button	Description
Add	Register new MDM-RE System.
Edit	Edit settings for the selected MDM-RE System.
Delete	Remove the selected MDM-RE System.
Test	Test connection settings for the selected MDM-RE System. If connection fails then dialog with error details is displayed.
Create App	Auto-generate IDD application for the selected MDM-RE System (see <i>Auto-Generation of an IDD Application</i> later in this document)

Physical MDM-RE Systems settings

To register MDM-RE System following connection information should be provided:

1. Display name - The name used to identify MDM-RE System in the Configuration Tool UI.
2. System Name - The name of the MDM-RE System in the Rulebase.
3. The hostname and port of the MDM-RE Secure Search Server.
4. Rulebase number.
5. Rulebase user/password. DBMS user name and password for MDM-RE Target Database.
6. Rulebase Service - Service name for MDM-RE Target Database (the `[Service_Name]` defined in the `odbc.ini`).

Edit screen can be used to modify these settings for registered Systems.

Both **Add** and **Edit** screens for Physical MDM-RE System have a **Test** button, which can be used to check connection settings.

Auto-Generation of an IDD Application

It is possible to create the configuration for an IDD Application manually from scratch, but a faster – and recommended – approach is to automatically generate an application, and then modify optional configuration settings if needed.

To generate an application for an MDM-RE System:

1. Select **MDM-RE Systems** in the tree on the left.
2. In the table displayed at the right panel select MDM-RE System and execute **Create App** command available at the Command toolbar.
3. **Add Application** dialog is displayed, it prompts to provide the Name and Display name for the generated application.
4. After you click the **OK** button IDD reads the metadata from the selected MDM-RE System, generates an IDD application, validates and deploys it. After command finishes it is possible to login to the generated application.

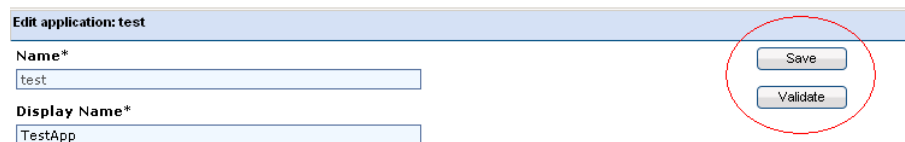
For the generated application following optional settings could be modified:

- Display name for objects in the MDM-RE System such as Identity Table, Search, Multi-Search.
- Identity Table layout (columns from the Identity Table displayed in the IDD application).
- Rules to generate cluster labels (label is used to display clusters in the Relationship View, and it is displayed in a tab header when a cluster is opened).
- Colors and icons used to display clusters in the Relationship View.

Edit Application

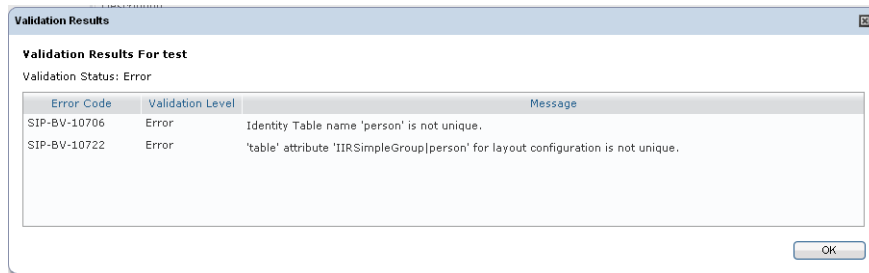
The Edit command displays the **Edit Application** screen that allows you to view and modify the configuration for the selected IDD application.

The following command buttons are available at the top of the screen:



Button	Description
Save	Saves the latest changes to the database. If the application state is anything but Not Deployed (-1), then the IDD application is redeployed after it is saved.
Validate	Runs validation on the current IDD application configuration and displays the validation report.

Example validation report dialog:



The following sections are available on the **Edit Application** screen:

Base Application Properties section

Edit application: test

Name*
test

Display Name*
TestApp

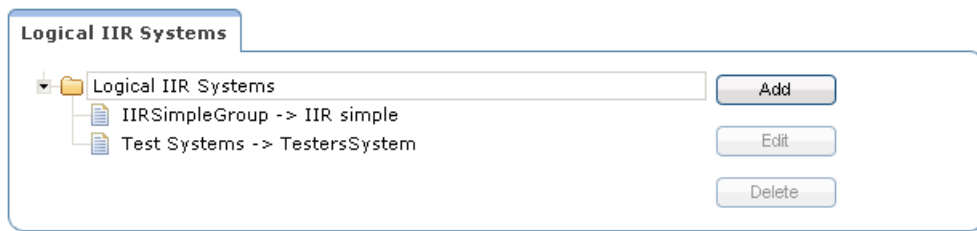
Description

Default locale Session timeout (minutes)
English 5

Provides editors for the following values:

Value	Description
Name	Application's internal name, not editable.
Display Name	Application's display name.
Description	Application's description
Default locale	Locale under which the application will start initially. Availability of locale options in the drop down depends on locale bundles imported to the application. Refer to the <i>Localization</i> section for more details. When there is more than one locale available for application, a select locale control is available at the top of the page, where the default setting can be changed.
Session timeout	A period in minutes of after which an inactive HTTP session expires freeing all application server"s resources. A user will have to re-login if his session has expired.

Logical Systems section



IDD application's configuration doesn't refer to a concrete Physical MDM-RE System, instead it is build around a Logical MDM-RE System, known by a logical name. In this section Logical MDM-RE Systems could be bound to Physical MDM-RE systems.

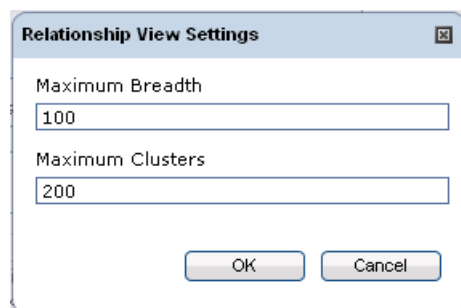
Operations available:

Operation	Description
Add	Brings up Add Logical MDM-RE System dialog where a logical name can be bound to a physical MDM-RE system.
Edit	Brings up Edit Logical MDM-RE System dialog where a logical name can be rebound to another physical MDM-RE system. Note: If there is an Identity Table configuration available that uses Logical MDM-RE System to be edited, edit operation wouldn't proceed and a message dialog would pop up telling user that s/he needs first to remove an IDT configuration that refers to that Logical MDM-RE System.
Delete	Deletes selected binding. Note: If there is an Identity Table configuration available that uses Logical MDM-RE System to be deleted, edit operation wouldn't proceed and a message dialog would pop up telling user that s/he needs first to remove an IDT configuration that refers to that Logical MDM-RE System.

Relationship View section



Consist of a button that brings-up a **Relationship View Setting** dialog:

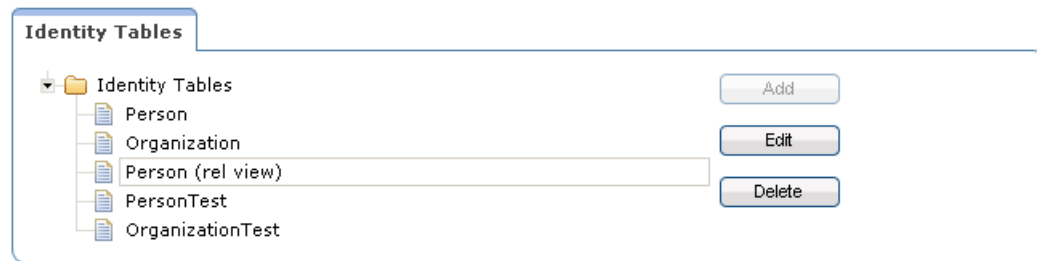


In Relationship View, when performing "Fetch One(Multiple) Hops" operation, a limit is set for the number of links and clusters fetched. If any of the limitations is exceeded, the fetch operations stops searching for additional data and returns collected clusters. These limits are introduced with the aim not to overfill Relationship View with too much of data.

This dialog allows configuring of following values:

Value	Description
Maximum Breadth	Limits number of links to be processed for any single cluster.
Maximum Clusters	Limits number of clusters to be collected in a single invocation of “Fetch One(Multiple) Hops” operation.

Identity Tables section



This section is not available until at least one Logical MDM-RE System is configured for the application.

Identity Tables section allows configuring which Identity Tables will be available in application along with various presentation options for an identity table and every cluster in this IDT. It guides through the configuration details using metadata from the physical MDM-RE to present the configuration options available.

Operations available:

Operation	Description
Add	Brings up Identity Table configuration dialog where all IDT-related configuration options are available. Refer to <i>Configuring Identity Tables</i> section for more details.
Edit	Brings up Identity Table configuration dialog where all IDT-related configuration options are available. Refer to <i>Configuring Identity Tables</i> section for more details.
Delete	Deletes selected Identity Table's from configuration.

Configuring Identity Tables

Identity Table is configured through the **Identity Table** dialog. This dialog can be opened in either Add New IDT or Edit Existing IDT mode. When in Add New IDT mode, the user has to provide Logical MDM-RE System/MDM-RE Identity Table the configured IDD Identity Table will represent.

Either in Add New IDT or Edit existing IDT mode, the **Identity Table** dialog presents the same set of configuration options; with only exception that choosing Logical MDM-RE System/MDM-RE Identity Table is available only for Add New IDT mode.

Identity Table dialog consists of IDT-common section and three tabs where different aspects of IDT presentation are configured.

IDT common attributes:

Attribute	Description
Logical MDM-RE System	Select Logical MDM-RE System the IDT being created belongs to from a list of logical systems configured for this application Active only in Add New IDT mode.
Name	Select MDM-RE Identity Table IDT being created represents. List of options depends on selection in Logical MDM-RE System drop down. Active only in Add New IDT mode.
Display Name	Display name for the Identity Table, as it will appear on UI. Defaults to MDM-RE Identity Table's name

In **Add New IDT** mode selection of physical MDM-RE IDT for **Name** drop down triggers loading of system metadata. **Identity Table** dialog provides defaults for all configurable properties based on system metadata values.

The screenshot shows the 'Identity Table' dialog box. At the top, there are three dropdown menus: 'Logical IIR System' (selected: 'reg_demo'), 'Name' (selected: 'info_reg_idt'), and 'Display Name' (selected: 'info_reg_idt'). Below these are three tabs: 'Search', 'Label', and 'Clusters'. The 'Search' tab is active, displaying a table with the following data:

Search	Display Name	View Name
address	address	
Customer	Customer	
customer_household	customer_household	
customer_name	customer_name	
Household	Household	
Organization	Organization	
organization_name	organization_name	

At the bottom right of the dialog are 'OK' and 'Cancel' buttons.

In the above diagram, **Identity Table** dialog in **Add New IDT** mode after physical IDT has been selected. Dialog data was provided by metadata for the selected IDT.

Available tabbed editors:

Search

Identity Table

Logical IIR System: reg_demo Name: info_reg_idt Display Name: info_reg_idt

Search Label Clusters

Search	Display Name	View Name
address	address	
Customer	Customer	
customer_household	customer_household	
customer_name	customer_name	
Household	Household	
Organization	Organization	
organization_name	organization_name	

OK Cancel

List of available searches for IDT is read from metadata. This list cannot be changed. User has possibility only to specify display names for searches. The view name should be mapped to the name specified in the View-Definition section of the MDM-RE system definition file. The view defines the set of fields to be displayed for each search type.

Label

Identity Table

Logical IIR System: reg_demo Name: info_reg_idt Display Name: info_reg_idt

Search Label Clusters

Format: {0}

No Attributes Format: {0}

Available Columns

- ID
- SRC_ID
- INS_TYPE
- DOB
- COMPANY
- COMP_ADDRESS
- ACCT_NO

Selected Columns*

- CUSTOMER_NAME
- ADDRESS

Buttons: Copy all, Copy, Remove, Remove All, Append to Format

OK Cancel

Configures label for the tab header of the tab displaying cluster(s) of this IDT.

Label configuration process consists of:

- Selecting columns whose values are to be used for label composition by moving column names to the “Selected Columns” area.
- Creating a free-form pattern of the label. “{0}” is reserved for IDT Display name, any value of Starting Record of a Cluster Container can be inserted by specifying record field name field reference enclosed in curly brackets. Any characters not enclosed in curly brackets will be shown in the label as is.

Example:

On the screenshot above there are two columns selected to be part of a label, **ROWID_OBJECT** and **DISPLAY_NAME**.

Label pattern is {0}, {DISPLAY_NAME}:{ROWID_OBJECT}.

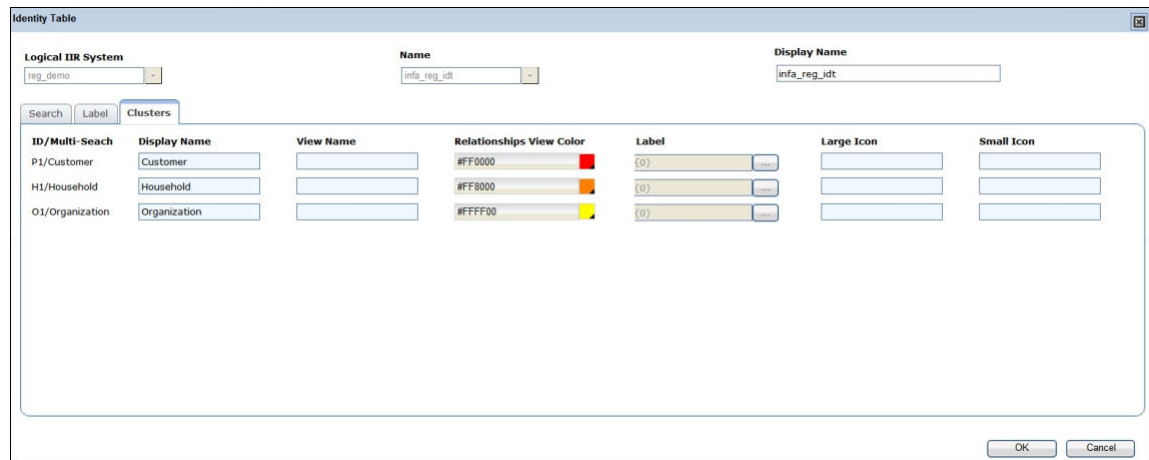
{0} is reserved for IDT display name and will be transformed to `Organization.DISPLAY_NAME` and `ROWID_OBJECT` will be transformed to values of the Starting Record. So the resulting label for this pattern might be like on a screenshot below - IDT's Display Name), (Starting Record's `DISPLAY_NAME` field's value): (Starting Record's `ROWID_OBJECT` field's value)

Note that when label doesn't fit into available space on the tab header, the full label text can be seen as a tooltip:



No attributes format is a fall-back format used when none of the columns taking part in label composition (those from **Selected Columns** area) have a non-null value. You shouldn't add any record field references to No Attributes Format.

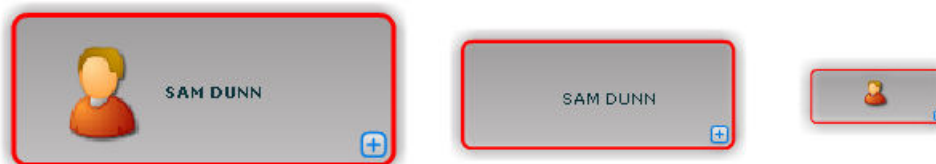
Clusters



List of available clusters for IDT is read from metadata. Users can provide cluster display name, relationship view node color and icons and configure cluster label that is used for labeling of Relationship View nodes. The view name should be mapped to the name specified in the View-Definition section of the MDM-RE system definition file. The view defines the set of fields to be displayed for each cluster type.

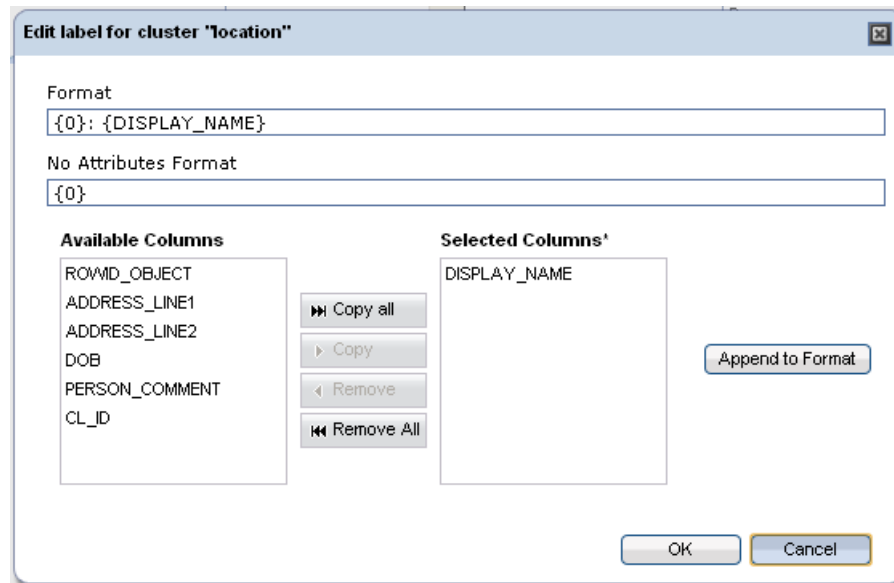
Cluster node is represented in the Relationship View as a rectangle with a border of configured color. Cluster view is based on current zoom, there are three levels of cluster details:

- Large precision: large icon and label.
- Medium precision: label.
- Minimum precision: small icon.



There is ZIP file with sample icons for Relationship View provided with IDD –icons/RelationshipViewIcons.zip.

To use your own icons in the Relationship View create a ZIP file containing your icons, for each cluster type create two icons: 16 x 16 icon for the small icon and 48 x 48 for the large icon. Import ZIP file into the IDD application using Import to existing IDD application command. Then specify names of icon files in the **Large Icon** and **Small Icon** columns.



To invoke the Label editor, press ... button in **Label** column. Functionally this editor is not different from IDT label editor, see the Label tab description above.

Cluster label setting affects **Relationship View node's** label and tooltip:



Log File

An Informatica Data Director application logs all the log entries and error messages in the `idd.log` file.

You can use the `idd.log` file located in the following directory to troubleshoot any issues:

- On Windows. <MDM Registry Edition Installation Directory>\tomcat\logs
- On UNIX. <MDM Registry Edition Installation Directory>/tomcat/logs

You can configure the level of logging for the `idd.log` file. The log levels are based on the Log4j log levels. Use the `log4j.properties` file located in the following directory to configure the log level:

- On Windows. <MDM Registry Edition Installation Directory>\tomcat\webapps\idd\WEB-INF\classes

- On UNIX. `<MDM Registry Edition Installation Directory>/tomcat/webapps/idd/WEB-INF/classes`

For more information about the Log4j log levels, see the Apache Log4j documentation.

CHAPTER 4

Manual IDD Configuration

This section provides information on IDD configuration.

Localization

As described in *Appendix A: Application Components* later in this document, four sets of resource bundles contain the strings that are displayed in an IDD application. Each set includes the default file, a placeholder English language file (this file can be empty), and optional localized versions of the file.

For example, for the `MessageBundle` set, the default file is `MessageBundle.properties` and the placeholder English language file is `MessageBundle_en.properties`.

Localized file should have language code suffix and optional country code suffix. The values for these suffixes are two-letter ISO codes. For more information, see *Appendix B: Locale Codes* later in this document.

Each resource bundle file is a UTF-8 encoded properties file. Each entry in the file is a name/value pair in format `<name>=<value>`.

<name>

This is a fixed value that is referenced by the IDD application. It cannot be changed.

<value>

This is the part that can be localized.

A few examples:

```
title=Informatica Data Director
locale=Locale
search=Search
```

Message bundle files can be added to the application either by including them in the application ZIP file that is imported, or by importing them into an existing application.

When an IDD application is first created, the IDD Configuration Manager generates default resource bundles of each type. These resource bundles have entries for all of the labels used in the IDD application.

To modify or localize these labels:

1. Export the IDD application.
2. Extract the files from the application ZIP file.
3. To modify labels, edit the resource bundles.
4. To localize labels, copy a resource bundle with the appropriate language code suffix and edit the labels.

See *Appendix A: Application Components* later in this document for details on each resource bundle set.

APPENDIX A

Application Components

An IDD application is stored in the IDD database (C_REPOS_DS_CONFIG) as a ZIP file containing component files. This ZIP file can be exported from or imported to the IDD Configuration Manager.

File name	Usage
BDDConfig.xml IIRConfig.xml	Main configuration files for the application.
BDDBundle.properties BDDBundle_XX.properties	Resource bundles with labels for objects defined in the IDD application.
MetadataBundle.properties MetadataBundle_XX.properties	Resource bundles with labels for objects defined in the MDM-RE System (such as Identity Tables, Searches, and so on).
ErrorCodeBundle.properties ErrorCodeBundle_XX.properties	Resource bundles with the text for error messages generated by an IDD application.
MessageBundle.properties MessageBundle_XX.properties	Resource bundles with text displayed in the IDD application.
RelationshipViewIcons.zip	Icons used to represent clusters in the Relationship View
BDDHelp.zip BDDHelp_XX.zip	Generic IDD help files. Help that generically describes the features of an IDD application.
CustomBDDHelp.zip CustomBDDHelp_XX.zip	Custom IDD help files. Help that has been developed so that it is specific and unique to a particular IDD application. In addition to providing implementation-specific usage instructions, this help file can provide any relevant information, such as an organization's procedures and policies.
logo.gif, logo.png, logo.jpg or logo.jpeg	A replacement for the logo that the IDD application displays in the upper left of the screen. The size for the Informatica logo is 183 pixels wide by 24 pixels high. For best results, the replacement logo should have similar dimensions.

APPENDIX B

Appendix B: Locale Codes

This appendix provides information on the language codes.

Language Codes

ISO Code	Language
aa	Afar
ab	Abkhazian
af	Afrikaans
am	Amharic
ar	Arabic
as	Assamese
ay	Aymara
az	Azerbaijani
ba	Bashkir
be	Byelorussian
bg	Bulgarian
bh	Bihari
bi	Bislama
bn	Bengali, Bangla
bo	Tibetan
br	Breton
ca	Catalan
co	Corsican
cs	Czech

cy	Welsh
da	Danish
de	German
dz	Bhutani
el	Greek
en	English
eo	Esperanto
Es	Spanish
et	Estonian
eu	Basque
fa	Persian
fi	Finnish
fj	Fiji
fo	Faroese
fr	French
fy	Frisian
ga	Irish
gd	Scots Gaelic
gl	Galician
gn	Guarani
gu	Gujarati
ha	Hausa
he	Hebrew (formerly iw)
hi	Hindi
hr	Croatian
hu	Hungarian
hy	Armenian
ia	Interlingua

id	Indonesian (formerly in)
ie	Interlingue
ik	Inupiak
is	Icelandic
it	Italian
iu	Inuktitut
ja	Japanese
jw	Javanese
ka	Georgian
kk	Kazakh
kl	Greenlandic
km	Cambodian
kn	Kannada
ko	Korean
ks	Kashmiri
ku	Kurdish
ky	Kirghiz
la	Latin
ln	Lingala
lo	Laothian
lt	Lithuanian
lv	Latvian, Lettish
mg	Malagasy
mi	Maori
mk	Macedonian
ml	Malayalam
mn	Mongolian
mo	Moldavian

mr	Marathi
ms	Malay
mt	Maltese
my	Burmese
na	Nauru
ne	Nepali
nl	Dutch
no	Norwegian
oc	Occitan
om	(Afan) Oromo
or	Oriya
pa	Punjabi
pl	Polish
ps	Pashto, Pushto
pt	Portuguese
qu	Quechua
rm	Rhaeto-Romance
rn	Kirundi
ro	Romanian
ru	Russian
rw	Kinyarwanda
sa	Sanskrit
sd	Sindhi
sg	Sangho
sh	Serbo-Croatian
si	Sinhalese
sk	Slovak
sl	Slovenian

sm	Samoan
sn	Shona
so	Somali
sq	Albanian
sr	Serbian
ss	Siswati
st	Sesotho
su	Sundanese
sv	Swedish
sw	Swahili
ta	Tamil
te	Telugu
tg	Tajik
th	Thai
ti	Tigrinya
tk	Turkmen
tl	Tagalog
tn	Setswana
to	Tonga
tr	Turkish
ts	Tsonga
tt	Tatar
tw	Twi
ug	Uighur
uk	Ukrainian
ur	Urdu
uz	Uzbek
vi	Vietnamese

vo	Volapuk
wo	Wolof
xh	Xhosa
yi	Yiddish (formerly ji)
yo	Yoruba
za	Zhuang
zh	Chinese
zu	Zulu

Country Codes

Country	Two-letter Code	ISO #
AALAND ISLANDS	AX	248
AFGHANISTAN	AF	4
ALBANIA	AL	8
ALGERIA	DZ	12
AMERICAN SAMOA	AS	16
ANDORRA	AD	20
ANGOLA	AO	24
ANGUILLA	AI	660
ANTARCTICA	AQ	10
ANTIGUA AND BARBUDA	AG	28
ARGENTINA	AR	32
ARMENIA	AM	51
ARUBA	AW	533
AUSTRALIA	AU	36
AUSTRIA	AT	40
AZERBAIJAN	AZ	31
BAHAMAS	BS	44

BAHRAIN	BH	48
BANGLADESH	BD	50
BARBADOS	BB	52
BELARUS	BY	112
BELGIUM	BE	56
BELIZE	BZ	84
BENIN	BJ	204
BERMUDA	BM	60
BHUTAN	BT	64
BOLIVIA	BO	68
BOSNIA AND HERZEGOWINA	BA	70
BOTSWANA	BW	72
BOUVET ISLAND	BV	74
BRAZIL	BR	76
BRITISH INDIAN OCEAN TERRITORY	IO	86
BRUNEI DARUSSALAM	BN	96
BULGARIA	BG	100
BURKINA FASO	BF	854
BURUNDI	BI	108
CAMBODIA	KH	116
CAMEROON	CM	120
CANADA	CA	124
CAPE VERDE	CV	132
CAYMAN ISLANDS	KY	136
CENTRAL AFRICAN REPUBLIC	CF	140
CHAD	TD	148
CHILE	CL	152
CHINA	CN	156

CHRISTMAS ISLAND	CX	162
COCOS (KEELING) ISLANDS	CC	166
COLOMBIA	CO	170
COMOROS	KM	174
CONGO, Democratic Republic of (was Zaire)	CD	180
CONGO, Republic of	CG	178
COOK ISLANDS	CK	184
COSTA RICA	CR	188
COTE D'IVOIRE	CI	384
CROATIA (local name: Hrvatska)	HR	191
CUBA	CU	192
CYPRUS	CY	196
CZECH REPUBLIC	CZ	203
DENMARK	DK	208
DJIBOUTI	DJ	262
DOMINICA	DM	212
DOMINICAN REPUBLIC	DO	214
ECUADOR	EC	218
EGYPT	EG	818
EL SALVADOR	SV	222
EQUATORIAL GUINEA	GQ	226
ERITREA	ER	232
ESTONIA	EE	233
ETHIOPIA	ET	231
FALKLAND ISLANDS (MALVINAS)	FK	238
FAROE ISLANDS	FO	234
FIJI	FJ	242
FINLAND	FI	246

FRANCE	FR	250
FRENCH GUIANA	GF	254
FRENCH POLYNESIA	PF	258
FRENCH SOUTHERN TERRITORIES	TF	260
GABON	GA	266
GAMBIA	GM	270
GEORGIA	GE	268
GERMANY	DE	276
GHANA	GH	288
GIBRALTAR	GI	292
GREECE	GR	300
GREENLAND	GL	304
GRENADA	GD	308
GUADELOUPE	GP	312
GUAM	GU	316
GUATEMALA	GT	320
GUINEA	GN	324
GUINEA-BISSAU	GW	624
GUYANA	GY	328
HAITI	HT	332
HEARD AND MC DONALD ISLANDS	HM	334
HONDURAS	HN	340
HONG KONG	HK	344
HUNGARY	HU	348
ICELAND	IS	352
INDIA	IN	356
INDONESIA	ID	360
IRAN (ISLAMIC REPUBLIC OF)	IR	364

IRAQ	IQ	368
IRELAND	IE	372
ISRAEL	IL	376
ITALY	IT	380
JAMAICA	JM	388
JAPAN	JP	392
JORDAN	JO	400
KAZAKHSTAN	KZ	398
KENYA	KE	404
KIRIBATI	KI	296
KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF	KP	408
KOREA, REPUBLIC OF	KR	410
KUWAIT	KW	414
KYRGYZSTAN	KG	417
LAO PEOPLE'S DEMOCRATIC REPUBLIC	LA	418
LATVIA	LV	428
LEBANON	LB	422
LESOTHO	LS	426
LIBERIA	LR	430
LIBYAN ARAB JAMAHIRIYA	LY	434
LIECHTENSTEIN	LI	438
LITHUANIA	LT	440
LUXEMBOURG	LU	442
MACAU	MO	446
MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF	MK	807
MADAGASCAR	MG	450
MALAWI	MW	454
MALAYSIA	MY	458

MALDIVES	MV	462
MALI	ML	466
MALTA	MT	470
MARSHALL ISLANDS	MH	584
MARTINIQUE	MQ	474
MAURITANIA	MR	478
MAURITIUS	MU	480
MAYOTTE	YT	175
MEXICO	MX	484
MICRONESIA, FEDERATED STATES OF	FM	583
MOLDOVA, REPUBLIC OF	MD	498
MONACO	MC	492
MONGOLIA	MN	496
MONTSERRAT	MS	500
MOROCCO	MA	504
MOZAMBIQUE	MZ	508
MYANMAR	MM	104
NAMIBIA	NA	516
NAURU	NR	520
NEPAL	NP	524
NETHERLANDS	NL	528
NETHERLANDS ANTILLES	AN	530
NEW CALEDONIA	NC	540
NEW ZEALAND	NZ	554
NICARAGUA	NI	558
NIGER	NE	562
NIGERIA	NG	566
NIUE	NU	570

NORFOLK ISLAND	NF	574
NORTHERN MARIANA ISLANDS	MP	580
NORWAY	NO	578
OMAN	OM	512
PAKISTAN	PK	586
PALAU	PW	585
PALESTINIAN TERRITORY, Occupied	PS	275
PANAMA	PA	591
PAPUA NEW GUINEA	PG	598
PARAGUAY	PY	600
PERU	PE	604
PHILIPPINES	PH	608
PITCAIRN	PN	612
POLAND	PL	616
PORTUGAL	PT	620
PUERTO RICO	PR	630
QATAR	QA	634
REUNION	RE	638
ROMANIA	RO	642
RUSSIAN FEDERATION	RU	643
RWANDA	RW	646
SAINT HELENA	SH	654
SAINT KITTS AND NEVIS	KN	659
SAINT LUCIA	LC	662
SAINT PIERRE AND MIQUELON	PM	666
SAINT VINCENT AND THE GRENADINES	VC	670
SAMOA	WS	882
SAN MARINO	SM	674

SAO TOME AND PRINCIPE	ST	678
SAUDI ARABIA	SA	682
SENEGAL	SN	686
SERBIA AND MONTENEGRO	CS	891
SEYCHELLES	SC	690
SIERRA LEONE	SL	694
SINGAPORE	SG	702
SLOVAKIA	SK	703
SLOVENIA	SI	705
SOLOMON ISLANDS	SB	90
SOMALIA	SO	706
SOUTH AFRICA	ZA	710
SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS	GS	239
SPAIN	ES	724
SRI LANKA	LK	144
SUDAN	SD	736
SURINAME	SR	740
SVALBARD AND JAN MAYEN ISLANDS	SJ	744
SWAZILAND	SZ	748
SWEDEN	SE	752
SWITZERLAND	CH	756
SYRIAN ARAB REPUBLIC	SY	760
TAIWAN	TW	158
TAJIKISTAN	TJ	762
TANZANIA, UNITED REPUBLIC OF	TZ	834
THAILAND	TH	764
TIMOR-LESTE	TL	626
TOGO	TG	768

TOKELAU	TK	772
TONGA	TO	776
TRINIDAD AND TOBAGO	TT	780
TUNISIA	TN	788
TURKEY	TR	792
TURKMENISTAN	TM	795
TURKS AND CAICOS ISLANDS	TC	796
TUVALU	TV	798
UGANDA	UG	800
UKRAINE	UA	804
UNITED ARAB EMIRATES	AE	784
UNITED KINGDOM	GB	826
UNITED STATES	US	840
UNITED STATES MINOR OUTLYING ISLANDS	UM	581
URUGUAY	UY	858
UZBEKISTAN	UZ	860
VANUATU	VU	548
VATICAN CITY STATE (HOLY SEE)	VA	336
VENEZUELA	VE	862
VIET NAM	VN	704
VIRGIN ISLANDS (BRITISH)	VG	92
VIRGIN ISLANDS (U.S.)	VI	850
WALLIS AND FUTUNA ISLANDS	WF	876
WESTERN SAHARA	EH	732
YEMEN	YE	887
ZAMBIA	ZM	894
ZIMBABWE	ZW	716

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