



Informatica® Identity Resolution
10.0.0

Release Guide

Informatica Identity Resolution Release Guide
10.0.0
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Preface

The *Informatica Identity Resolution 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 Identity Resolution Release Guide* is written for users of Informatica Identity Resolution. This guide assumes that you have knowledge of the features for which you are responsible.

Informatica Resources

Informatica My Support Portal

As an Informatica customer, the first step in reaching out to Informatica is through the Informatica My Support Portal at <https://mysupport.informatica.com>. The My Support Portal is the largest online data integration collaboration platform with over 100,000 Informatica customers and partners worldwide.

As a member, you can:

- Access all of your Informatica resources in one place.
- Review your support cases.
- Search the Knowledge Base, find product documentation, access how-to documents, and watch support videos.
- Find your local Informatica User Group Network and collaborate with your peers.

Informatica Documentation

The Informatica Documentation team makes every effort to create accurate, usable documentation. If you have questions, comments, or ideas about this documentation, contact the Informatica Documentation team through email at infa_documentation@informatica.com. We will use your feedback to improve our documentation. Let us know if we can contact you regarding your comments.

The Documentation team updates documentation as needed. To get the latest documentation for your product, navigate to Product Documentation from <https://mysupport.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. You can access the PAMs on the Informatica My Support Portal at <https://mysupport.informatica.com>.

Informatica Web Site

You can access the Informatica corporate web site at <https://www.informatica.com>. The site contains information about Informatica, its background, upcoming events, and sales offices. You will also find product and partner information. The services area of the site includes important information about technical support, training and education, and implementation services.

Informatica How-To Library

As an Informatica customer, you can access the Informatica How-To Library at <https://mysupport.informatica.com>. The How-To Library is a collection of resources to help you learn more about Informatica products and features. It includes articles and interactive demonstrations that provide solutions to common problems, compare features and behaviors, and guide you through performing specific real-world tasks.

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As an Informatica customer, you can access the Informatica Knowledge Base at <https://mysupport.informatica.com>. Use the Knowledge Base to search for documented solutions to known technical issues about Informatica products. You can also find answers to frequently asked questions, technical white papers, and technical tips. If you have questions, comments, or ideas about the Knowledge Base, contact the Informatica Knowledge Base team through email at KB_Feedback@informatica.com.

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Online Support requires a user name and password. You can request a user name and password at <http://mysupport.informatica.com>.

The telephone numbers for Informatica Global Customer Support are available from the Informatica web site at <http://www.informatica.com/us/services-and-training/support-services/global-support-centers/>.

Part I: Version 10.0.0

This part contains the following chapter:

- [New Features and Changes \(10.0.0\), 11](#)

CHAPTER 1

New Features and Changes (10.0.0)

This chapter includes the following topics:

- [New Features \(10.0.0\), 11](#)
- [Changes \(10.0.0\), 12](#)

New Features (10.0.0)

This section describes new features in version 10.0.0.

High Availability with ZooKeeper

Identity Resolution uses Apache ZooKeeper to achieve high availability for Rulebase Servers, updsync utility, and updmulti utility in a distributed environment. High availability refers to the availability of the resources without any service interruption if a failure occurs.

For more information about high availability with ZooKeeper, see the *Informatica Identity Resolution Operations Guide*.

SEARCH and FILE Definitions

This section describes new features in the search and file definitions.

Extended Fields

You can extend any of the key fields and set the weight for the extended fields. The extended fields use the algorithm of the key fields. Use the extended fields to override the weight of the key fields in the run time.

For more information about the extended fields, see the *Informatica Identity Resolution Populations and Controls*.

Range Matching on the Date Fields

In the SCORE-LOGIC controls section, you can specify a range for the dates in the search data, the file data, or both to perform matching. The matching returns 100% score if the search data and file data values are within the specified range.

For more information about the range matching, see the *Informatica Identity Resolution Populations and Controls*.

Matching Against Zero or a Null Value

In the SCORE-LOGIC controls section, you can perform matching between data and zero, a null value, or both in the Search Data and File Data fields.

For more information about the matching against zero or a null value, see the *Informatica Identity Resolution Populations and Controls*.

Changes (10.0.0)

This section describes changes in version 10.0.0.

License Server

Effective in version 10.0.0, you do not require a license server to install Identity Resolution and to start the Identity Resolution Server.

Previously, you installed the license server before installing Identity Resolution and started the license server before starting the Identity Resolution Server.

Rulebase Server Groups

Effective in version 10.0.0, the Rulebase Server Groups are deprecated, and Identity Resolution uses Apache ZooKeeper to achieve high availability for Rulebase Servers, updsync utility, and updmulti utility in a distributed environment.

Previously, you could use Rulebase Server Groups to achieve high availability.

Address Verification Libraries

Effective in version 10.0.0, Identity Resolution includes Address Verification version 5.8.0.33948 libraries.

Previously, Identity Resolution included the earlier versions of the libraries.

ODBC Drivers for Oracle

Effective in version 10.0.0, Identity Resolution installer does not bundle the custom ODBC drivers for Oracle and does not update the ODBC driver details in the `odbc.ini` file. You must manually configure the ODBC drivers for Oracle in the `odbc.ini` file.

Previously, Identity Resolution installer bundled the custom ODBC drivers for Oracle and updated the ODBC driver details in the `odbc.ini` file.

Dropped Support

Effective in version 10.0, Identity Resolution dropped support for 32-bit Windows, HPUX IA64, and IBM DB2 UDB on Solaris SPARC.

For more information about product requirements and supported platforms, see the Product Availability Matrix on the Informatica My Support Portal:

<https://mysupport.informatica.com/community/my-support/product-availability-matrices>

Dumpshr Utility

Effective in version 10.0.0, the dumpshr utility is deprecated.

Previously, you could use the dumpshr utility to view the call stacks of all the Identity Resolution servers and utility programs.

Part II: Version 9.5.4

This part contains the following chapter:

- [New Features and Changes \(9.5.4\), 15](#)

CHAPTER 2

New Features and Changes (9.5.4)

This chapter includes the following topics:

- [New Features \(9.5.4\), 15](#)
- [Changes \(9.5.4\), 16](#)

New Features (9.5.4)

This section describes new features in version 9.5.4.

iirconfig-tool Utility

Use the iirconfig-tool utility to retrieve or update the configuration metadata of a system. The configuration metadata includes details about the system, identify table, identity index, identity fields, search configuration, and other system-related configuration.

For more information about the iirconfig-tool utility, see the *Informatica Identity Resolution Operations Guide*.

loggrabr Utility

Use the loggrabr utility to retrieve the log entries from log files, error files, environment scripts, and configuration files and load the entries into a single output file. You can use the output file to troubleshoot any issues without having to refer multiple files.

For more information about the loggrabr utility, see the *Informatica Identity Resolution Operations Guide*.

logfrmat Utility

Use the logfrmat utility to format the log entries in an output file of the loggrabr utility and load the formatted entries into an XML output file. You can use the logfrmat utility to improve the readability of its input file, which is an output file of the loggrabr utility.

For more information about the logfrmat utility, see the *Informatica Identity Resolution Operations Guide*.

SEARCH and FILE Definitions

In the SCORE-LOGIC controls section, you can specify the type of matching to perform between the data in the Search Data and File Data fields.

You can use the following matching types:

- Exact matching
- Range matching

For more information about the matching types, see the *Informatica Identity Resolution Populations and Controls*.

FILTER_SEARCHVALUES Control

Use the FILTER_SEARCHVALUES control to specify a list of values to match with the data in the Search Data field, File Data field, or both the fields. Use the Filter purpose to specify the data in the Search Data and File Data fields.

For more information about the FILTER_SEARCHVALUES control, see the *Informatica Identity Resolution Populations and Controls*.

Changes (9.5.4)

This section describes changes in version 9.5.4.

Updated Libraries

Effective in version 9.5.4, Identity Resolution includes updated AddressDoctor and third-party libraries.

The following table lists the updated libraries and their versions:

Library	Current Version
AddressDoctor	5.6.0.30153
libxml2	2.9.2
OpenSSL	1.0.2a

Previously, Identity Resolution included the earlier versions of the libraries.

XML Search Service

Effective in version 9.5.4, the numeric fields of an identity table are set to the xsd:nonNegativeInteger data type. In an environment that uses XML Search Service, if you recompile a proxy, you must change the data type of the numeric fields in the clients to avoid any data type mismatch.

Previously, the numeric fields of an identity table were set to the xsd:int data type.

Part III: Version 9.5.3

This part contains the following chapters:

- [New Features and Changes \(9.5.3 HotFix 2\), 18](#)
- [New Features and Changes \(9.5.3\), 20](#)

CHAPTER 3

New Features and Changes (9.5.3 HotFix 2)

This chapter includes the following topics:

- [New Features \(9.5.3 HotFix 2\), 18](#)
- [Changes \(9.5.3 HotFix 2\), 19](#)

New Features (9.5.3 HotFix 2)

This section describes new features in version 9.5.3 HotFix 2.

Geocode Support

SSA-NAME3 performs a location-based search to index and search records. You can provide an exact location or create a search range by specifying a search radius. Use the latitude and longitude coordinates with an optional elevation to specify the location.

For more information about Geocode, see *Informatica Identity Resolution Populations and Controls*.

Company_Name Field

Most of the standard populations include the `Company_Name` field, which is similar to the `Organization_Name` field. The `Company_Name` field does not include the person name rules, but the `Organization_Name` field includes the person name rules. All the purposes that contain the `Organization_Name` field include the `Company_Name` field.

For more information about the `Company_Name` field, see *Informatica Identity Resolution Populations and Controls*.

Lightweight Matching in SDF Wizard

In the SDF Wizard, you can configure the lightweight matching controls when you create or edit a search and add these controls to a system definition file. As a result, you do not have to manually add these controls to the system definition file.

For more information about lightweight matching, see *Informatica Identity Resolution Populations and Controls*.

Performance Improvements

The core components of Identity Resolution are optimized to achieve improved load and search performance. Performance results will vary depending on your environment.

Changes (9.5.3 HotFix 2)

This section describes changes in version 9.5.3 HotFix 2.

Organization_Name Field

Effective in version 9.5.3 HotFix 2, the `Organization_Name` field includes the person name rules, which can impact the SSA-NAME3 score and search results.

Previously, in version 9.5.3, the `Organization_Name` field did not include the person name rules. However, in versions earlier than 9.5.3, the `Organization_Name` field included the person name rules.

CHAPTER 4

New Features and Changes (9.5.3)

This chapter includes the following topics:

- [New Features \(9.5.3\), 20](#)
- [Changes \(9.5.3\), 21](#)

New Features (9.5.3)

This section describes new features in version 9.5.3.

Session Pooling

The Search Server incorporates session pooling for all searches. Session pooling eliminates Rulebase access when a client switches between searches within the same session or when a new client connects. Session pooling improves search performance and eliminates the need for the clients to implement the session pooling logic within their own application code.

By default, session pooling is enabled. You can disable it by setting the `SSA_SESSION_POOL_MAX` environment variable to 0 on the machine hosting the Search Server.

For more information about session pooling, see *Informatica Identity Resolution 9.5.3 Operations Guide*.

Search Transaction Retry

The Search Server retries failed search transactions. This feature eliminates the need for the clients to implement retry logic within their application code and simplifies the implementation of Identity Resolution.

For more information about the Search Server, see *Informatica Identity Resolution 9.5.3 Operations Guide*.

Lightweight Matching

SSA-NAME3 matching performs a lightweight pre-scoring step, which uses a fast score estimate to reject the obvious mismatches. SSA-NAME3 performs full scoring for the accepted records. Dependent on the nature of the data, this enhancement improves the performance of the following processes:

- Search

- Create PID
- SSA-NAME3 match API
- IR for Hadoop
- Run Clustering

By default, lightweight matching is disabled.

For more information about lightweight matching, see *Informatica Identity Resolution 9.5.3 Populations and Controls*.

SDF Wizard Search Client

The SDF Wizard includes a tab to perform searches. After you define and deploy a system, you can test the searches within the same utility by using the Search tab. This feature eliminates the need to run a separate client to test the searches.

New Field Types in Standard Populations

Standard Populations include the following field types, which support both searching and matching:

- Telephone number
- Date
- Credit card
- Vehicle Identification Number (VIN)
- International Standard Book Number (ISBN)
- Generic numeric and alphanumeric strings (for example, SSN)

These field types increase the number of entity types that the Informatica Identity Resolution supports.

For more information about these field types, see *Informatica Identity Resolution 9.5.3 Populations and Controls*.

Changes (9.5.3)

This section describes changes in version 9.5.3.

Timeout Duration

Effective in version 9.5.3, you can control the timeout duration through the `SSA_SOCKET_TIMEOUTS` environment variable.

Previously, the Table loader failed after 7200 seconds because of the socket timeout error.

For information about `SSA_SOCKET_TIMEOUTS`, see *Informatica Identity Resolution 9.5.3 Operations Guide*.

SDF Validation

Effective in version 9.5.3, when you create a system by using an existing SDF, the application validates all section statements and displays an appropriate error message if it identifies any of the following errors:

- An empty section definition
- An unrecognized section type
- A duplicate section type

Previously, you could create a system with an empty section definition.

Standard Populations

Effective in version 9.5.3, SSA-NAME3 standard populations include new data structures, so the populations are not backward compatible with the earlier versions of Identity Resolution.

Previously, the standard populations were compatible with the earlier versions of Identity Resolution.

Part IV: Version 9.5.2

This part contains the following chapter:

- [New Features and Changes \(9.5.2\), 24](#)

CHAPTER 5

New Features and Changes (9.5.2)

This chapter includes the following topics:

- [New Features \(9.5.2\), 24](#)
- [Changes \(9.5.2\), 25](#)

New Features (9.5.2)

This section describes new features in version 9.5.2.

Performance

This section describes new features and enhancements to performance.

Socket Layer Resilience

The socket layer reliability and resilience improves due to an increase in tolerance to network quality variations.

Loader

Database performance improves through Array Fetch. When the database layer fetches a row from the database, it fetches a predetermined number of rows in a single call. You can enhance the performance of initial loads from a database source, to reindex an Identity Table, and to create a Persistent ID.

System Deployment

You can deploy a system through the SDF wizard. When you deploy a system, you create the Rulebase, Database, and System. The SDF wizard loads the Identity Table and indexes.

Logging

This section describes new features and enhancements to logging.

Timestamp

The resolution of the time is increased to a microsecond level. You can measure performance and also correlate client program output with server activity reported in the logs.

Log Collection Utilities

You can use the following log collection utilities to diagnose problems with MDM-RE installations:

- The Log Grabber (loggrabr) utility searches the MDM-RE installation directories for any log files that contain useful diagnostic information and gathers them into a single file. The loggrabr utility also copies to the same file all configuration information like environment variables and the contents of odbc.ini and other configuration files.
- The Log Formatter (logformat) utility creates an XML output from the file the Log Grabber utility creates.

Both these utilities accept date and time parameters, which you may provide to restrict the included logging information to a specific time period.

Web Services

This section describes new features and enhancements to Web services.

HTTP Compression

The XML servers support RFC 2616 HTTP gzip compression and use compression when the web clients indicate that they will accept it.

HTTP Authentication

You can add RFC 2617 HTTP authentication, both Basic and Digest authentication.

To enable this support, set the environment variable `SSAHTTPAUTHENTICATION` to Basic or Digest, and set `SSATHHPREALM` to a desired value. Define the userid and password by adding a DBDICT entry with the name of the realm and a value of the userid and password separated by a slash (/).

Software Asset Management

This section describes new features and enhancements to Software Asset Management.

Support for ISO-19770-2 Software Identification Tags

You can manage software assets through ISO/IEC 19770-2 software identification tags.

Changes (9.5.2)

This section describes changes in version 9.5.2.

Rulebase Server Groups

This section describes updates and changed behavior to Rulebase Server Groups.

idsdown

Effective in version 9.5.2, you can use the enhanced `idsdown` command to accept a subsequent `idsdown hard` command.

Previously, if an `idsdown` command failed to stop a server because one or more clients were still connected, you could not issue an `idsdown hard` command to force those clients to close.

Connection Reuse

Effective in version 9.5.2, to balance the resource utilization and reliability, the database connection is reused for a period before being reallocated. To change the default value, set the environment variable `SSA_RBGRP_DB_REUSE` to the number of minutes to keep the connection alive.

Previously, a database connection was created for each interaction to ensure maximum reliability.

Synchronizers

This section describes updates and changed behavior to the synchronizers.

updmulti

Effective in version 9.5.2, you can use `updmulti` to synchronize the Identity Table and Persistent ID when you use triggers to propagate updates from the source tables.

Use `updmulti` instead of `updsync` as your synchronization tool.

Previously, you had to use `updsync` whenever triggers were used.

Part V: Version 9.5.0

This part contains the following chapter:

- [New Features and Changes \(9.5.0 HotFix1\), 28](#)

CHAPTER 6

New Features and Changes (9.5.0 HotFix1)

This chapter includes the following topics:

- [New Features \(9.5.0 HotFix 1\), 28](#)
- [Changes \(9.5.0 HotFix 1\), 29](#)

New Features (9.5.0 HotFix 1)

This section describes the new features in version 9.5.0 HotFix 1.

Simple Search

The Simple Search feature allows multiple input fields to be combined into a single input field, giving a Google-like search experience. Additional search clients including Default search, Lite search, HTTP search, Deployable search, and Batch search clients are now able to use Simple Search. Applications that use Informatica Identity Resolution APIs to provide search functionality can now use the Simple Search feature. You can use the System Definition Wizard to define the search labels associated with simple search in the System Definition File.

Rulebase Server Connection

When you start the Synchronizer with the `--rbcheck` switch, the Update Synchronizer periodically checks its communication channel to the Rulebase Server. You can now specify the connection retry period with the `-d` option.

Search Performance

Informatica Identity Resolution now compresses Unicode fields (type 'W') stored in an IDX by removing trailing Unicode spaces. The reduced IDX size improves both load and search performance.

Update Synchronizer

The Update Synchronizer performs extra validation of NSA transactions to verify the format of the IDT records provided. Advanced validation may also be requested to help identify truncation, misalignment, and incorrect padding.

Console Server

The `-y` parameter has been added to the Console Server executable, `ssacsrv`. The Console Server uses this parameter to pass a timeout value to the Connection Server.

Changes (9.5.0 HotFix 1)

This section describes the changes in version 9.5.0 HotFix 1.

Rulebase Server Group

Effective in version 9.5.0 HotFix1, use the **rbsgdown** utility to shut down Rulebase Servers running in a Rulebase Server Group. The **rbsgdown** utility automatically identifies the active Rulebase Server in the group and directs the shutdown command to it.

Previously, an administrator would need to determine which Rulebase Server was active prior to executing the `idsdown` script.

Name3 Workbench User Interface

Effective in version 9.5.0 HotFix1, both the Name3 Workbench and Population Override Manager will accept input in both text and hexadecimal form and allow conversion between the two formats. This enhancement facilitates working with multi-byte and Unicode data in scripts such as Chinese, Japanese and Korean without the need to change input locale to enter data in its native character set.

Previously, it was necessary to change the input locale to enter data in the native character set.