



Informatica® Identity Resolution  
10.0 HotFix 1

# Release Guide

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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

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# Part I: Version 10.0

This part contains the following chapters:

- [New Features and Enhancements \(10.0 HotFix 1\), 10](#)
- [New Features and Changes \(10.0.0\), 14](#)

# CHAPTER 1

## New Features and Enhancements (10.0 HotFix 1)

This chapter includes the following topics:

- [New Features \(10.0 HotFix 1\), 10](#)
- [Changes \(10.0 HotFix 1\), 12](#)

### New Features (10.0 HotFix 1)

This section describes new features in version 10.0 HotFix 1.

#### Rulebase Server Group

In an environment that uses Rulebase Server Group, when you start a Rulebase or Search Server, you can use the following additional parameters:

- `-e`. Indicates not to shut down the secondary servers when the primary server shuts down.
- `-o<Restart Option>`. Defines the behavior of the server after the connection to the database is lost.
- `-t<Number of Retries>,<Frequency>`. Maximum number of attempts for the secondary server to establish the database connection and the time interval between two attempts.
- `-w<Frequency>,<Priority>`. Polling frequency and the priority for the server.

For more information about the Rulebase Server Group, see the *Informatica Identity Resolution Operations Guide*.

#### Relate Client

When you start the Relate client from the command line, you can use the following additional parameters:

- `--append-to-output-file`. Appends the matching records to the output file.
- `--failed-searches-log`. Absolute path and file name for the log file that contains details about the failed searches.
- `--failed-searches-count`. Maximum number of searches that can fail.
- `--skip-input-records`. Number of input records that you want to skip.

- `--retry-options=<Number of Retries>,<Time Interval>,<Number of Retries for Intermittent Errors>`. Maximum number of retry attempts for a search request and the time interval between each retry attempt.

For more information about the Relate client, see the *Informatica Identity Resolution Operations Guide*.

## SSA-NAME3

This section describes new features and enhancements to SSA-NAME3.

### Edit-List Category Types

You can list the replacement and noise words based on the position of the words.

To specify the position of the replacement and noise words in the Edit-list definition file, use the following category types:

- 1 Delete At Start
- 2 Delete In Middle
- 3 Delete At End
- 4 Replace At Start
- 5 Replace In Middle
- 6 Replace At End

For more information about the category types, see the *Informatica SSA-NAME3(EXTN) Service Group Definition and Customization Guide*.

### NOUNCOMMONVOWELS Keyword for the NAMESET Function

The NOUNCOMMONVOWELS keyword retains the vowels in the uncommon words during the key building process. For example, with the NOUNCOMMONVOWELS keyword, the name GHALIB stabilizes to GALAB. Otherwise, the name stabilizes to GLB after removing the vowels.

For more information about the NAMESET function, see the *Informatica SSA-NAME3(EXTN) Service Group Definition and Customization Guide*.

### Custom Keys

You can generate custom keys based on the Customset keywords that you configure. You can use the custom keys in combination with the positive or negative keys.

For more information about the keys, see the *Informatica SSA-NAME3(EXTN) Service Group Definition and Customization Guide*.

### Name Matching Method

The Name Matching method includes the following options:

- `SKIPVOWL`. Matches vowels or ignores a vowel when compared with a consonant.
- `SKIPCONS`. Matches multiple consonants with a single consonant.

For more information about the Name Matching method, see the *Informatica SSA-NAME3(EXTN) Service Group Definition and Customization Guide*.

## Session Pooling

You can configure the level of logging that you want for a search request. Use the `SSA_SESSION_POOL_LOGGING` environment variable to configure the logging level.

For more information about the `SSA_SESSION_POOL_LOGGING` environment variable, see the *Informatica Identity Resolution Operations Guide*.

## Population Files

All the standard population files are updated to accommodate the SSA-NAME3 changes. The updated population files do not affect the keys except the standard Arabic population file, which affects the keys.

The Identity Resolution installation directory contains another version of the USA and International population files that affect the keys in the following directory: `<Identity Resolution Installation Directory>/populations`

You can replace the standard USA and International populations files with these files.

## Query Timeout

You can time out a search that takes a longer time to query the database.

To time out the searches, perform one of the following tasks:

- Set the `SSADB_QUERY_TIMEOUT` environment variable.
- Specify the `--query_timeout` parameter when you run the Relate client.
- Use the `ids_set_timeout` function.

For more information about the `SSADB_QUERY_TIMEOUT` environment variable and the `--query_timeout` parameter, see the *Informatica Identity Resolution Operations Guide*. For more information about the `ids_set_timeout` function, see the *Informatica Identity Resolution Developer Guide*.

## db\_util Utility

You can use the `db_util` utility to unlock a Rulebase Server after the server shuts down unexpectedly. When you run the `db_util` utility, it internally runs an SQL script that deletes the `IDS_nn_INUSE` table and removes the lock related entry in the `IDS_FDT_META` table.

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

# Changes (10.0 HotFix 1)

This section describes changes in version 10.0 HotFix 1.

## Record Identifiers

Effective in version 10.0 HotFix 1, you can set the incremental value for the record identifiers. Use the `SSADB_RECID_INCREMENT` environment variable to set the incremental value. The incremental value is applicable only for the synchronization process.

Previously, the record identifiers were incremented by one.

## Session Pooling

Effective in version 10.0 HotFix 1, the default value of the `SSA_SESSION_POOL_MAX` environment variable is set to 100, and the `SSA_SESSION_POOL_HEARTBEAT` environment variable is deprecated.

Previously, the `SSA_SESSION_POOL_MAX` environment variable had no default value, and the Search Server retained all the search requests in the pool.

## CHAPTER 2

# New Features and Changes (10.0.0)

This chapter includes the following topics:

- [New Features \(10.0.0\), 14](#)
- [Changes \(10.0.0\), 15](#)

## 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.

## 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, HP-UX IA64, and IBM DB2 UDB on Solaris SPARC.

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

<https://network.informatica.com/community/informatica-network/product-availability-matrices/overview>

## 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 \(9.5.4\), 18](#)

## CHAPTER 3

# New Features and Changes (9.5.4)

This chapter includes the following topics:

- [New Features \(9.5.4\), 18](#)
- [Changes \(9.5.4\), 19](#)

## 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 \(9.5.3 HotFix 2\), 21](#)
- [New Features and Changes \(9.5.3\), 23](#)

## CHAPTER 4

# New Features and Changes (9.5.3 HotFix 2)

This chapter includes the following topics:

- [New Features \(9.5.3 HotFix 2\), 21](#)
- [Changes \(9.5.3 HotFix 2\), 22](#)

## 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 5

# New Features and Changes (9.5.3)

This chapter includes the following topics:

- [New Features \(9.5.3\), 23](#)
- [Changes \(9.5.3\), 24](#)

## 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 \(9.5.2\), 27](#)

## CHAPTER 6

# New Features and Changes (9.5.2)

This chapter includes the following topics:

- [New Features \(9.5.2\), 27](#)
- [Changes \(9.5.2\), 28](#)

## 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 \(9.5.0 HotFix1\), 31](#)

## CHAPTER 7

# New Features and Changes (9.5.0 HotFix1)

This chapter includes the following topics:

- [New Features \(9.5.0 HotFix 1\), 31](#)
- [Changes \(9.5.0 HotFix 1\), 32](#)

## 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.