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| Development Spec Document |
| Potential Match Report |
| Rev 1.0.0  Reltio Technical Services |
| Mohan |
| 11/15/2017 |

# 

# **Revision History**

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| --- | --- | --- | --- |
| **Revision** | **Author Name** | **Date** | **Description** |
| 1.0.0 | Mohan | 11/16/2017 | Initial Draft |
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# **Overview**

This Utility can generate the potential match extract report of the given fromDate, endDate and EntityType given filter

## Use Case(s)

You have loaded data into a Reltio tenant and you want the match report for the existing entities of a specific EntityType.

## Constraints & Assumptions

* If the utility runs in “**SCAN**” mode, it will utilizes **\_scan** API endpoint to query records and **\_scan** endpoint is based on ElasticSearch, please make sure ElasticSearch is synced up with Cassandra so that **\_scan** endpoint returns accurate data.
* The user account given in the configuration file must have corresponding permission to read/delete the entity type.
* Can only specify one entity type in an execution.
* User should pass the all the mandatory values in the config file and mapping file.
* During match extract process of a large amount of entities, utility may throw exceptions: “java.net.ConnectException: Operation timed out (Connection timed out)”. This may be caused by occasional overloading of the API endpoint, but will not affect final results of the extract.

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# **Configuration Requirements**

In order to execute the Data Model Extract tool a configuration file must be present. Options and a sample are listed below.

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| **Configuration Options** | | |
| **Setting** | **Optional** | **Options** |
| AUTH\_URL | No | URL of the auth server. |
| TENANT\_ID | No | TenantID(15 character value) |
| ENTITY\_TYPE | No | The entityType to merge type. |
| USERNAME | No | Username of the user account. User must have corresponding access to merge report data. |
| RELTIO\_SERVER\_HOST | No | Server host of the env |
| PASSWORD | No | Password of the user account. |
| THREAD\_COUNT | No | Thread count that the utility use to make API calls. By default: 20. Suggested: 20. Maximum: 50.  (The proper value of THREAD\_COUNT depends on the data-load server that is used. If you are experiencing “Connection timed out” exceptions, please try to reduce this value.) |
| OV\_ATTRIBUTE\_FILE\_LOCATION | No | Path of the attribute mapping, specified attribute is going to fetch in the match report. |
| OUTPUT\_FILE\_LOCATION | No | This is the path of the output file location.Where your all output is going to be stored. |
| FILE\_FORMAT | No | Supports csv |
| HEADER\_REQUIRED | No | If Yes,it will provide Headers in the output report |
| BATCH\_SIZE | No | Size of the batch. |
| TRANSITIVE\_MATCH | No | If true, then transitive matches will be a part of report. |

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## Config Example - SCAN Mode

## AUTH\_URL=https://auth.reltio.com/oauth/token

## USERNAME=mohan.kumar@reltio.com

## PASSWORD=

## TENANT\_ID=

## RELTIO\_SERVER\_HOST=dev.reltio.com

## THREAD\_COUNT=30

## ENTITY\_TYPE=HCP

## OV\_ATTRIBUTE\_FILE\_LOCATION=Payer-mapping.properties

## OUTPUT\_FILE\_LOCATION=pm-extracts-hcp.csv

## FILE\_FORMAT=CSV

## HEADER\_REQUIRED=Yes

## BATCH\_SIZE=100

## TRANSITIVE\_MATCH=true

## 

## **Classes and Methods**

Below the most relevant classes and methods are outlined

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| --- | --- | --- |
| **Match Report** | | |
| **Method** | **Arguments** | **Description** |
| *main* | String[] **args[]** | Take in **args[0]** as configuration file path, extract execution parameters from the configuration file. |
| *SCAN* | String **authURL**  String **TenantID**  String **serverHost**  String **entityType**  String **username**  String **password**  Integer **pageSize**  Integer **threadCount**  String **batchSize**  String **TRANSITIVE\_MATCH** | Make “POST entities/\_scan?select=uri” API calls to extract attribute informations, for each match. Also collect statistics during execution and generate an execution summary. |
| *waitForTasksReady* | Collection<Future<Long>> **futures**  int **maxNumberInList** | Wait for tasks in **futures** (load tasks list put to executor) to be done. **maxNumberInList** specifies how many uncompleted tasks could be stored in **futures** at the same time. |

## **Test Cases**

## Link to test cases and results are below

[**Click here**](https://docs.google.com/spreadsheets/d/1AXhXmOfDVWSBjDZEPYtkk34yFZFMkUijBSP9SJffo1I/edit#gid=0)

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## **Deployment & Instructions**

## Building The main method of the application is at the following path:

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## The build requires **gson-2.8.0** and **reltio-cst-core-1.3.9** as dependencies. If you do not have **reltio-cst-core-1.3.9** library installed in your local maven repository, please run “mvn clean” at the root where the **pom.xml** file is located and maven will install the library automatically. Then you could run “mvn package” to build the jar file.

## Executing

## The command format is as follows. Create a “**.properties**” configuration file and pass the file path as argument to the jar.

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| **Operating System** | **Command Format** |
| Windows | java -jar reltio-pm-extractReport-0.0.3.jar “configuration.properties” > $logfilepath$ |
| Unix | java -jar reltio-pm-extractReport-0.0.3.jar “configuration.properties” > $logfilepath$ |

# **Other Relevant Links**

|  |  |
| --- | --- |
| **Link** | **Description** |
| [Bitbucket Repository](https://bitbucket.org/reltio-ondemand/pot-mat-data-extract) | Link to the Bitbucket Repository where the source is maintained |
| [Reltio REST API Reference -Get Configuration](https://help.reltio.com/index.html#configuration/lconfigs.html) | Link to the documentation of **Configuration** API endpoint. |
| [Reltio REST API Reference - Search With Cursor](https://help.reltio.com/index.html#searchapi/searchwithcursor.html) | Link to the documentation of **\_scan** API endpoint. |
| [Reltio REST API Reference - Filtering](https://help.reltio.com/index.html#entitiesapi/entitiesfiltering.html) | Link to the documentation of Reltio REST API filtering syntax. |