

**OWS – Matching Rule Changes Requirement**

for

INTERNATIONAL REGISTRIES (IRI)

*By*

Inspirage, LLC

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Inspirage Contact

Senthil Anand

Senthil.anand@[@inspirage.com](mailto:Lav.Batra@inspirage.com)

+1 713.376.9484

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Overview

The Purpose of this document is to gather the requirements of the matching rules that needs to be customized to get more or less results for certain names compared to the out of the box OWS matching engine.

# Requirement Origin

The output of Watchlist screening installed initially which is three bucket installation (SAN, PEP, EDD separated to form results) is not satisfying and IRI wanted to have one bucket installation (SAN, PEP, EDD combined to form results).

Currently both the screening are running concurrently, after comparing the results from SAN Watchlist Screening & Watchlist Screening, IRI felt some results are better in Watchlist screening and some results are good in SAN Watchlist Screening and some are not good in both the screening, so the need for customizing the out of the box Oracle matching engine arises.

Once the customization of matching rules changes are done in SAN Watchlist Screening, IRI will disable the three bucket installation real time screening and proceed with one bucket installation.

* One bucket Solution – SAN Watchlist Screening
* Three bucket Solution – Watchlist Screening

# Names & Entities

* The requirement from IRI is to screen certain names and entities and if the results are acceptable it is assumed to be good for rest of the names of the entities.
* The matching rule changes are to be done on SAN Watchlist Screening project
* The names and entities that are listed below in the table are taken from both one bucket and three bucket solution and compared for results
* IRI picked logic for one bucket, three bucket to be perfect fit for certain names and entities and also for certain cases both are not fetching desired results.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name Vetted** | **One Bucket** | **Three bucket** | **Best Results** | **Notes** |
| CHEN HU | 552 | 54 | Three bucket |  |
| HU CHEN | 1148 | 21 | Three bucket |  |
| FLEET MANAGEMENT LTD | 6 | 4 | Three bucket |  |
| NMB AIR LTD | 4 | 3 | Three bucket |  |
| CAPITAL SHIP MANAGEMENT CORP | 12 | 0 | Three bucket |  |
| KAMAL HAWLADER | 2 | 0 | One bucket |  |
| CHRISTIAN DE LOS SANTOS | 19 | 2 | One bucket |  |
| BRIAN CARDINAL | 2 | 0 | Three bucket |  |
| FRONTLINE GROUP | 4 | 4 | EQUAL | Both results are the same |
| CAPITAL SHIPMANAGEMENT LTD | 9 | 0 | Three bucket |  |
| IBRAHIM | 49 | 44 |  | Both have bad results missing matches with partial name Ibrahim |
| AYE MIN TUN | 37 | 0 | One bucket |  |
| BRIAN SCOTT WALKER | 25 | 5 | One bucket |  |
| MAHMMUD IDRIS ALI | 62 | 0 | One bucket |  |
| ANTON MOROZ | 5 | 3 |  | Both have bad results missing matches with Morozov |
| TRANSGLOBAL DEVELOPMENT AND INVESTMENT CORP | 3 | 3 | EQUAL | Both results are the same |

Additional Names added to the list for verification and testing in One bucket implementation.

|  |  |  |
| --- | --- | --- |
| Sr. No. | **Names to be screened** | **Entity type** |
| 1 | SUNIL KUMAR | Individual |
| 2 | ABHISHEK KUMAR SINGH | Individual |
| 3 | OZGUR MEHMET | Individual |
| 4 | WEI LI LI | Individual |
| 5 | LI LI WEI | Individual |
| 6 | ISMAEL | Individual |
| 7 | IBRAHIM | Individual |
| 8 | ANUSHKA KHATRI | Individual |
| 9 | MICHAEL WILLIAMS | Individual |
| 10 | MOHAMED HARSHED JALEEL | Individual |
| 11 | MUSTAFA KAAN ARSLAN | Individual |
| 12 | NAVEEN KUMAR ARJALA | Individual |
| 13 | SERGEI POPOV | Individual |
| 14 | SERGEI VLADMIROVICH POPOV | Individual |
| 15 | MICHAEL WALLACE | Individual |
| 16 | ANAND KUMAR | Individual |
| 17 | VAN SU NGUYEN | Individual |
| 18 | IGNACIO GARCIA | Individual |
| 19 | VIC ANTHONY DE LA CRUZ | Individual |
| 20 | THOMAS JAMES JACKSON | Individual |

# Analysis

Based on the analysis, The matching rule cannot be customized based on a name or entity rather by matching rule only. The matching rules involved in the above selection of sample data are

|  |
| --- |
| * [I130O] All names in any order only |
| * [I090O] Additional given names only |
| * [I270O] Additional names in any order only |
| * [I010O] Exact name only |
| * [I060O] Abbreviated standardized given name only |
| * [I160O] Abbreviated given name without titles and family name with typos only |
| * [I220O] Additional names typo tolerant only |
| * [I280O] Additional names in any order typo tolerant only |
| * [I260O] Abbreviated first name only |

The above matching rule will be customized to get more/ results based on the data provided

Additionally, based on the vetting above there should be a separate matching rule to be enabled where both single and three bucket implementation doesn’t provide results. Example – Ibrahim, Anton Moroz.

# Scope

Since the customization will be based on the matching rule, there is a possibility of certain names may not be exact match because tweaking one rule can have an impact on other names and entities. Inspirage will consider the best possible scenario so that the impact on the results is as minimal.