

Oracle Financial Services Customer Screening

Matching Guide

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OFS Customer Screening Matching Guide.

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Document Control

Table 1 Document Control

Table 1: Document Control

Version Number	Revision Date	Change Log
1.0	March 2023	No content updates for this release.

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1 Introduction

Oracle Financial Services Customer Screening provides a flexible and customizable strategy for matching customer records to watch list records. **Sanctions screening** typically requires the business to employ tightly-defined, zero-tolerance matching policies that will identify every possible match against a sanctions list. In these cases, the additional review work of lower probability matches will be necessary. By contrast, a business carrying out **PEP screening** may choose a strategy of finding and investigating only the most likely matches against the PEP list, and the additional work required to confirm or eliminate weaker matches may not be cost-effective for the business.

Oracle Financial Services Customer Screening employs a range of clustering strategies and matching rules. These can be enabled and disabled as needed, to tune the behavior of Oracle Financial Services Customer Screening to your requirements.

The matching rules are built around name matching. Other identifiers are also used in the matching rules, but their main purpose is to rank matches by strength, and thereby to enable a most-likely approach to review potential matches. Oracle Financial Services Customer Screening also includes an evaluation of the risk posed by the potential match, allowing both strength of match and risk profile to be used in prioritizing reviews. For example, strong matches to Sanctions lists should be regarded as the most urgent matches, requiring immediate attention. Strong matches to PEP records will require follow-up, but may not be so urgent. Looser matches to PEP records may not be worth the time and operational cost of review.

In general, the looser the match rule, the more likely it is to raise false positives. It is not possible to eliminate all false positives, especially if there is a requirement to identify all true matches. Tuning the matching strategy is, therefore, a trade-off between the proportion of true matches that are not detected and the work required to manually eliminate false positives. This will be evident in the examples in this document.

1.1 General matching strategy

This section provides a brief description of the general strategy used in Oracle Financial Services Customer Screening. It consists of three main components: identifier preparation, clustering, and matching.

1.1.1 Identifier preparation

There are some differences between the structure of data sets that always need to be normalized before clustering and matching, so that the matching process does not need to repeat the configuration of transformations on each comparison.

Identifier preparation is used to ensure that the records conform to a pre-defined data structure which can be used by the rest of the matching process, and also to eliminate common forms of variance between the records (such as spelling variants of given names and abbreviations of frequently-used tokens).

1.1.2 Clustering

Clustering is used to minimize the work that must be performed by the final stage of matching. It works by splitting the working and reference data into wide tranches (clusters), based on similarities in significant data fields. Only subsets of the data which share similar characteristics, and will, therefore, be placed in the same cluster, will be compared on a record-by-record basis later in the matching process.

If very wide clusters are used, there will be a large number of records in each cluster. This means that there is a reduced risk that true matches will be missed, but also that a greater amount of processing power is required to compare all the clustered records by brute force. A tighter clustering strategy will result in smaller clusters, with fewer records per cluster. This results in reduced processing requirements for row-by-row comparisons but increases the likelihood that some true matches will not be detected.

1.1.3 Matching

Once the working and watch list records have been divided into clusters, the rows within each cluster are compared to one another according to the match rules defined for the matching processor. Each match rule defines a set of criteria, specified as comparisons, that the pair of records must satisfy in order to qualify as a match under that rule. The match rule also defines a decision to be applied to any records which satisfy the conditions of the rule. The majority of rules have a **Review** decision, meaning matches that hit the rule need to be reviewed. However, there are also elimination rules, where if the records being compared meet the rule's criteria, a **No Match** decision is reached and the two records will not be considered a match.

NOTE

Oracle Financial Services Customer Screening does not use the **Match** decision as it never considers there to be an automatic match between two records that do not require review.

The rules are applied as a decision table, so if a pair of records qualifies as a match under a rule higher in the table, it will not be compared using any rules below that. All rules are configured to operate on a case-insensitive basis. Unless stated otherwise, all noise and whitespace characters are removed or normalized before matching.

1.2 Configuring Oracle Financial Services Customer Screening for different scenarios

As previously mentioned, Oracle Financial Services Customer Screening includes clusters and matching rules that are suited to various screening requirements. Tuning Oracle Financial Services Customer Screening to match your policies should be undertaken carefully and under the supervision of a risk and compliance expert, with knowledge of your business requirements and the relevant legislation.

The following general points may be useful when tuning the behavior of Oracle Financial Services Customer Screening:

- Some organizations use a zero-tolerance policy for individual name matches. Such a policy typically requires that all potential name matches must be manually reviewed, irrespective of the rest of the data associated with the record. If such a policy is in place, you should consider the following actions:
 - Disable all the elimination rules in the individual matching processors. If these rules are enabled, you run the risk of preventing close name matches from being detected by the remaining match rules.

- Enable the conflict rules in the individual matching processors. These rules allow you to detect and manually review close name matches whose supporting information conflicts with the watch list records.

NOTE

The conflict rules raise possible matches when the individual name appears to match a given watch list record, but the supporting data (such as date of birth or nationality) is in conflict.

- If the name only clusters are enabled, the Name and Country and Name and YOB clusters are redundant and therefore can be disabled for PEP and EDD screening. They are disabled by default for Sanctions screening.
- Country prohibition screening is enabled by default for Sanctions screening. To screen for prohibited countries during PEP and EDD screening, enable the relevant country prohibition clusters and match rules:
 - The clusters used for country prohibitions in entity screening are the Registration Country cluster and the Operating Country cluster.
 - The match rules used for country prohibitions in entity screening are the Country Prohibition – Registration Country and the Country Prohibition – Operating Country match rules.
 - The clusters used for country prohibitions in individual screening are the Nationality Prohibition and the Residency Prohibition clusters.
 - The match rules used for country prohibitions in individual screening are the Country Prohibition – Nationality and the Country Prohibition – Residency match rules.
- In general, using a loose clustering strategy will result in relatively few clusters, each containing many records. This reduces the potential for missing true matches and increases the chance of false positives. It is also expensive in terms of processing requirements, as every record in the cluster must be directly compared with every other record in that cluster.
- Conversely, a tight clustering strategy will result in a relatively large number of clusters, each containing fewer records. This increases the potential for missing true matches and decreases the chance of false positives. It also reduces the overall cost of the processing requirements, as relatively few direct comparisons are required.

2 Individual Matching

This section details the default configuration when matching individuals to Sanctions, PEP and EDD lists.

2.1 Identifier preparation

The following identifiers are prepared for use in the individual matching process

Table 1 lists the Field Description for Identifier preparation.

Table 1: Identifier preparation

Identifier Description	Standard prepared attribute name	Summary of preparation logic
Given Names	dnGivenNames	A space-separated list of the first and middle names of the individual, after normalization (see the name normalization section, below).
Family Name	dnFamilyName	A normalized version of the family name (see the name normalization section, below).
Full Name	dnFullName	A concatenation of the given names and family name separated using spaces.
Original Script Name	dnOriginalScriptName	A whitespace normalized version of the original script name.
City	dnCity	A pipe-separated list of cities associated with the individual data.
Country Code	A space separated, deduplicated and sorted superset of all country codes provided in dnAddressCountryCode, dnResidencyCountryCode, dnNationalityCountryCodes and dnCountryOfBirthCode.	A space-separated list of standard 2-character country codes.
Date of Birth	dnDOB	A date attribute containing the date of birth of the individual.
Year of Birth	dnYOB	A string attribute containing a space-separated list of possible years of birth, in a four-digit format.

The following sections describe the data preparation strategy for each of these identifiers.

2.1.1 Name Normalization

The name identifiers map to the prepared attributes `dnGivenNames`, `dnFamilyName` and `dnFullName`. In all these fields, the following transformations are applied before matching:

- Standardization of accented characters.
- Replacement of non-alpha (A-Z or a-z) characters with spaces.

NOTE If matching data in the original language against original script names in watch lists, the appropriate character ranges should be removed from the Name Noise Characters Reference Data so that they are not replaced. If transliterating data before matching, transliteration must be done before the name normalization.

- Normalization of whitespace
- Conversion to upper case

The purpose of these transformations is not to create the most 'correct' name. For example, hyphens may be used in names in a number of ways, such as in a double-barreled surname, or as an alternative for a space when a surname has a qualifier (common in the World-Check data file).

In the former case, one might ideally want to preserve the hyphen, and in the latter case replace it with a space. In general, however, additional spaces in names will not cause names to miss matching, whereas different characters could.

Examples

Table 2 lists the Field Description for Input data and Identifiers.

Table 2: Input data and Identifiers

Input data		Identifiers		
Forename	Surname	dnGivenNames	dnFamilyName	dnFullName
Carmelo	Raschellà	CARMELO	RASCHELLA	CARMELO RASCHELLA
Darwen	MANN`A	DARWEN	MANN A	DARWEN MANN A
Badr bin Saud bin Harib	AL-BUSAIDI	BADR BIN SAUD BIN HARIB	AL BUSAIDI	BADR BIN SAUD BIN HARIB AL BUSAIDI
A. Arnaldo G.	TAVEIRA	A ARNALDO G	TAVEIRA	A ARNALDO G TAVEIRA
Jose Mardônio	DA COSTA**	JOSE MARDONIO	DA COSTA	JOSE MARDONIO DA COSTA

2.1.2 City and country identifiers

City and country values are derived from the source data wherever possible. There may be multiple possible cities or countries associated with an individual, perhaps because an individual resides in more than one country, has dual nationality, or resides in a different country from his/her nationality.

Country values are prepared as a space-separated list of two-character country codes in the `dnAllCountryCodes` attribute.

City values (which may contain spaces, for example, 'New York') are prepared as a pipe separated list of cities in the `dnCity` attribute.

1.1.1 Date of birth and Year of birth identifiers

A formal Date attribute holds the date of birth, where known. The year of birth is stored as a string and is either derived from the date of birth or may be derived from other data. The year of birth may include several possible years. This is most likely to occur when a reference source lists the age of individuals as of a given date, which may lead to two possible years of birth.

For example, if an individual is listed as 27 years old on 01/05/2007, the year of birth could either be 1980 (if born before 1st May) or 1979 (if born after 1st May). In this case, both possible years are derived and added to a list of possible years of birth. The year of birth comparison in matching looks for a common year of birth between the two records being compared.

1.1 Clustering

Oracle Financial Services Customer Screening provides eleven clusters for matching individuals to watch lists during Sanctions screening, and nine clusters for PEP and EDD screening:

[Table 3](#) lists the Field Description for Cluster Methods.

Table 3: Cluster Methods

Cluster Method	SAN	PEP	EDD
Family Name	Y	N	N
Full Name Metaphone	Y	N	N
Given Names	Y	N	N
Full Name Trim	Y	N	N
Nationality Prohibition	Y	N/A	N/A
Residency Prohibition	Y	N/A	N/A
Name and Country	N	Y	Y
Name and YoB	N	Y	Y
First and Last Name	N	Y	Y
Original Script Name	N	N	N
First Initial Last Name	N	N	N

NOTE This table shows the default configuration of both Batch and RealTime screening processes, but these may be customized independently of one another.

The data used to create the clusters is created before matching by the preparation process. In all cases, the clusters use the prepared and normalized name attributes

dnGivenNames, dnFamilyName, dnFullName, and dnOriginalScriptName. For further information see Name Normalization.

2.1.1 Family Name Cluster (dnClusterFamilyName)

The Family Name cluster provides a backup to the full name clusters. This is especially important where the given name data is incomplete, making it difficult to form a complete cluster key for two names. For example, the following three example records do not share any Full Name cluster keys, due to the initials in the second record and the spacing and spelling variations seen throughout:

Table 4 lists the Field Description for Example of Full Name Cluster (dnFullName).

Table 4: Example of Full Name Cluster (dnFullName)

dnFullName	Name tokens and trimmed values	Cluster Keys	dnClusterFullNameTrim
STEPHEN JEQE NKOMO	JEQE NKOMO STEPHEN	JEQ NKO STE	JEQNKO JEQSTE NKOSTE
S J NKOMO	S NKOMO J	S NKO J	NKO
STEPHEN JEKE N KOMO	JEKE KOMO N STEPHEN	JEK KOM N STE	JEKKOM JEKSTE KOMSTE

Clustering only on the family name circumvents this issue but results in large clusters and a concomitant increase in the processing required to cross-check all the records.

The **Family Name** cluster builder counters spacing and punctuation differences by generating **Metaphone** keys for all tokens of the family name, AND the whole of the family name after all white

space is trimmed. This is to ensure that family names such as those in the last two records in the example table below are all clustered together despite the spacing differences.

The default logic of the cluster builder is as follows:

- Trim all white space from the normalized family name
- Apply the Metaphone transformation to the result, outputting a key with a length of up to 4 characters
- Strip common name qualifiers from the normalized family name, e.g. Abd, Al.
- Split the family name into several name tokens, using a space delimiter.

NOTE Many other punctuation and noise characters are normalized to spaces before generating the cluster. For further information see Name Normalization.

- Apply the **Metaphone** transformation to each name token, outputting a key with a length of up to 4 characters. If there were no tokens remaining after stripping common name qualifiers, then apply the Metaphone transformation to each name token of the original normalized family name.
- Concatenate all the generated **Metaphone** keys
- Deduplicate the list of keys

Example

Table 5 lists the Field Description for Example of Family Name Cluster (dnFamilyName).

Table 5: Example of Family Name Cluster (dnFamilyName)

dnFamilyName	Tokens derived from dnFamilyName	Metaphone transformations	dnClusterFamilyName
ZHONG	ZHONG	JNK	JNK
XIAOJIAN	XIAOJIAN	SJN	SJN
ABACHE	ABACHE	APX	APX
ABANDA	ABANDA	APNT	APNT
ABD AL HAFIZ	HAFIZ ABDALHAFIZ	HFS APTL	HFS APTL
AL BUTHE	BUTHE ALBUTHE	PO ALPO	PO ALPO
AL	AL	AL	AL
SOLEIMAN HAMAD	SOLEIMAN HAMAD SOLEIMANHAMAD	SLMN HMT SLMN	SLMN HMT
GOODRIDGE	GOODRIDGE	KTRJ	KTRJ
GOODRICH SR	GOODRICH SR GOODRICHSR	KTRX SR KTRK	KTRX SR KTRK
NKOMO	NKOMO	NKM	NKM
N KOMO	N KOMO NKOMO	N KM NKM	N KM NKM

2.1.2 Full Name Metaphone Pairs Cluster (dnClusterFullNameMeta)

The **Full Name Metaphone Pairs** cluster uses the normalized full name for the individual to generate a cluster key for every pair of names within the full name. The default logic of this is as follows:

- Split the normalized full name into several name tokens, using space as a delimiter.

NOTE

Many other punctuation and noise characters are normalized to spaces before generating the cluster. For further information see Name Normalization.

- Sort the name tokens alphabetically.
- Apply the Metaphone transformation (the standard double-metaphone algorithm) to each name token, outputting a key with a length of up to three characters.
- Concatenate the Metaphone values, generating a final key value for each distinct pair of tokens.
- Deduplicate the list of keys.

Example

Table 6 lists the Field Description for Full Name Metaphone Pairs Cluster.

Table 6: Full Name Metaphone Pairs Cluster

dnFullName	Name tokens and Metaphone values		Distinct Cluster Keys	dnClusterFullName Meta
XIAO JIAN ZHONG	JIAN	JN	JNS JNJNK SJNK	JNS JNJNK SJNK
	XIAO	S		
	ZHONG	JNK		
ZHONG XIAOJIAN	XIAOJIAN	SJN	SJNJNK	SJNJNK
	ZHONG	JNK		
MOHAMMED SANI ABACHE	ABACHE	ABX	APXMHM APXSN MHMSN	APXMHM APXSN MHMSN
	MOHAMMED	MHMT		
	SANI	SN		
JOSEPH TSANGA ABANDA	ABANDA	APNT	APNJSF APNTSN JSFTSN	APNJSF APNTSN JSFTSN
	JOSEPH	JSF		
	TSANGA	TSNK		
ABD AL WAHAB ABD AL HAFIZ	ABD	APT	APTAPT APTAL APTHFS APTAHP ALAL ALHFS ALAHP HFSAHP	APTAPT APTAL APTHFS APTAHP ALAL ALHFS ALAHP HFSAHP
	ABD	APT		
	AL	AL		
	AL	AL		
	HAFIZ	HFS		
	WAHAB	AHP		

Table 6: Full Name Metaphone Pairs Cluster

SULIMAN HAMD SULEIMAN AL BUTHE	AL	AL	ALPO ALHMT ALSML POHMT POSLM HMTSLM SLMSLM	ALPO ALHMT ALS M POHMT POSLM HM TSLM SLMSLM
	BUTHE	PO		
	HAMD	HMT		
	SULEIMAN	SLMN		
	SULIMAN	SLMN		
AL BUTHE SOLEIMAN HAMAD	AL	AL	ALPO ALHMT ALSML POHMT POSLM HMTSLM	ALPO ALHMT ALS M POHMT POSLM HM TSLM
	BUTHE	PO		
	HAMAD	HMT		
	SOLEIMAN	SLMN		
REGINALD B GOODRIDGE	B	P	KTRRJN Note: Initials are ignored by default when generating cluster keys	KTRRJN
	GOODRIDGE	KTRJ		
	REGINALD	RJNLT		
REGINALD B SR GOODRICH	B	P	KTRRJN KTRSR RJNSR Note: Initials are ignored by default when generating cluster keys	KTRRJN KTRSR RJ NSR

Table 6: Full Name Metaphone Pairs Cluster

	GOODRIDGE	KTRJ		
	REGINALD	RJNLT		
	SR	SR		
STEPHEN JEQE NKOMO	JEQE	JK	JKNKM JKSTF NKMSTF	JKNKM JKSTF NK MSTF
	NKOMO	NKM		
	STEPHEN	STFN		
S J NKOMO	J	J	NKM Note: Initials are ignored by default when generating cluster keys	NKM
	NKOMO	NKM		
	S	S		
STEPHEN JEKE N KOMO	JEKE	JK	JKKM JKSTF KMSTF	JKKM JKSTF KMST F
	KOMO	KM		

Table 6: Full Name Metaphone Pairs Cluster

	N	N		
	STEPHEN	STFN		

2.1.3 Given Names Cluster (dnClusterGivenNames)

The **Given Names** cluster provides a further backup to the remaining clusters, especially to deal with cases where names are not necessarily well structured into family and given names.

NOTE Depending on the quality and culture of the name information, this cluster will often not be required. You can test the number of additional alerts identified by the cluster by running matching with this cluster disabled, and then running with it enabled. Comparing the new relationships against the old will highlight the relationships identified by using this cluster.

The default logic of the cluster builder is as follows:

- Split the normalized full name into several name tokens, using space as a delimiter.

NOTE Many other punctuation and noise characters are normalized to spaces before generating the cluster. For further information see Name Normalization.

- Standardize the normalized given names before clustering. This ensures that names such as 'William' and 'Bill' will be clustered together, although their raw Metaphone values are not the same. A space delimiter is used to split the name before standardizing.
- Apply the Metaphone transformation to the whole of the given names value after token standardization, outputting a key with a length of up to 4 characters.

Example

Table 7 lists the Field Description for Given Names Cluster.

Table 7: Given Names Cluster

dnFullName	Name tokens and trimmed values		Cluster Keys	dnClusterFullNameTrim
XIAO JIAN ZHONG	JIAN XIAO ZHONG	JIA XIA ZHO	JIAXIA JIAZHO XIAZHO	JIAXIA JIAZHO XIAZHO

Table 7: Given Names Cluster

ZHONG XIAOJIAN	XIAOJIAN	XIA	XIAZHO	XIAZHO		
	ZHONG	ZHO				
MOHAMMED SANI ABACHE	ABACHE	ABA	ABAMOH ABASAN MOHSAN	ABAMOH ABASAN MOHSAN		
	MOHAMMED	MOH				
	SANI	SAN				
JOSEPH TSANGA ABANDA	ABANDA	ABA	ABAJOS ABATSA JOSTSA	ABAJOS ABATSA JOSTSA		
	JOSEPH	JOS				
	TSANGA	TSA				
ABD AL WAHAB ABD AL HAFIZ	ABD	ABD	ABDABD ABDAL ABDHAF ABDWAH ALAL ALHAF ALWAH HAFWAH	ABDABD ABDAL ABDHAF ABDWAH ALAL ALHAF ALWAH HAFWAH		
	ABD	ABD				
	AL	AL				
	AL	AL				
	HAFIZ	HAF				
	WAHAB	WAH				
	AL	AL			ALBUT ALHAM ALSUL ALSUL BUTHAM BUTSUL HAMSUL SULSUL	ALBUT ALHAM ALSUL BUTHAM BUTSUL HAMSUL SULSUL
	BUTHE	BUT				
	HAMD	HAM				
	SULEIMAN	SUL				
	SULIMAN	SUL				

Table 7: Given Names Cluster

AL BUTHE SOLEIMAN HAMAD	AL	AL	ALBUT ALHAM ALSOL BUTHAM BUTSOL HAMSOL	ALBUT ALHAM ALSOL BUTHAM BUTSOL HAMSOL
	BUTHE	BUT		
	HAMAD	HAM		
	SOLEIMAN			
REGINALD B GOODRIDGE	B	B	GOOREG Note: Initials are ignored by default when generating cluster keys	GOOREG
	GOODRID GE	GOO		
	REGINALD	REG		
REGINALD B SR GOODRICH	B	B	GOOREG GOOSR REGSR	GOOREG GOOSR REGSR
	GOODRIC H	GOO		
	REGINALD	REG		
	SR	SR		
STEPHEN JEQE NKOMO	JEQE	JEQ	JEQNKO JEQSTE NKOSTE	JEQNKO JEQSTE NKOSTE
	NKOMO	NKO		
	STEPHEN	STE		
S J NKOMO	S	S	NKO Note: Initials are ignored by default when generating cluster keys	NKO
	NKOMO	NKO		

Table 7: Given Names Cluster

	J	J		
STEPHEN JEKE N KOMO	JEKE	JEK	JEKKOM JEKSTE KOMSTE Note: Initials are ignored by default when generating cluster keys	JEKKOM JEKSTE KOMSTE

2.1.4 Nationality Prohibition (Nationality Code)

This cluster uses the space-delimited list of nationality country codes to generate cluster keys by generating an array of the component country codes.

2.1.5 Residency Prohibition (Residency Code)

This cluster uses the space-delimited list of residency country codes to generate cluster keys by generating an array of the component country codes.

2.1.6 Name and Country (dnClusterNameCountry)

The **Name and Country** cluster provides a backup using more detailed information about names and combining them with country information. The cluster is used to compare very similar names that are located over the same countries.

The default logic of the cluster builder is as follows:

- Split the normalized Full Name into name tokens, using space as a delimiter.

NOTE Many other punctuation and noise characters are normalized to spaces before generating the cluster. For further information see Name Normalization.

- Apply the **Metaphone** transformation to each name token, outputting a key with a length of up to twelve characters.
- Sort the **Metaphone** values alphabetically.
- For each country code associated with the record:
 - Concatenate the country code with the full set of **Metaphone** values, using an underscore as a separator.
 - If more than two **Metaphone** values are present, then iterate through all groups of **Metaphone** values which have exactly one value from the set missing, concatenating the country code onto the front of the **Metaphone** value set.
 - If the overall length of the `dnClusterNameCountry` field has exceeded 1000 characters, discard the last key and stop key generation.

Example

Table 8 lists the Field Description for Name and Country.

Table 8: Name and Country

dnFullName	Country Codes	Name tokens and Metaphone values		Cluster Keys	dnClusterNameCountry
MOHAMMED SANI	ES GB	MOHAMMED	MHMT	ES_MHMT_SN GB_MHMT_SN	ES_MHMT_SN GB_MHMT_SN
		SANI	SN		
SULIMAN HAMD SULEIMAN	ES TH GB	HAMD	HMT	ES_HMT_SLMN_SLMN ES_SLMN_SLMN ES_HMT_SLMN ES_HMT_SLMN TH_HMT_SLMN_SLMN TH_SLMN_SLMN TH_HMT_SLMN	ES_HMT_SLMN_SLMN ES_SLMN_SLMN ES_HMT_SLMN ES_HMT_SLMN TH_HMT_SLMN_SLMN N TH_SLMN_SLMN TH_HMT_SLMN H_HMT_SLMN GB_HMT_SLMN_SLMN GB_SLMN_SLMN GB_HMT_SLMN _HMT_SLMN
		SULEIMAN	SLMN		
		SULIMAN	SLMN		
				TH_HMT_SLMN GB_HMT_SLMN_SLMN GB_SLMN_SLMN GB_HMT_SLMN GB_HMT_SLMN	

2.1.7 Name and YOB (dnClusterNameYOB)

The Name and YOB cluster provides a backup using more detailed information about names and initials combining them with years of birth.

The default logic of the cluster builder is as follows:

- Standardize dnGivenNames and dnFamilyName;
- Apply transliteration followed by the Metaphone transformation to the standardized given name, outputting a key with a length of up to four characters;
- Apply transliteration followed by the Metaphone transformation to the standardized family name, outputting a key with a length of up to four characters;
- Extract and uppercase the first letter of the standardized dnGivenName;
- Extract and uppercase the first letter of the standardized dnFamilyName;
- Extract the first two years of birth from dnYOB to generate two values (referred to as 'First YOB' and 'Second YOB' in the remainder of this example);
- Create up to four cluster keys by concatenating the following combinations of elements, using the underscore character:
 - First YOB + dnFamilyName (uppercased initial) + dnGivenNames (Metaphone).

- First YOB + dnGivenNames (uppercased initial) + dnFamilyNames (Metaphone).
- Second YOB + dnFamilyName (uppercased initial) + dnGivenNames (Metaphone).
- Second YOB + dnGivenNames (uppercased initial) + dnFamilyNames (Metaphone).

NOTE If any of the required data elements are missing, then the corresponding cluster key will not be generated.

- Deduplicate the list of keys.

Example

Table 9 lists the Field Description for Name and YOB.

Table 9: Name and YOB

dnGivenNames, dnFamilyName	dnYOB	Name tokens and Metaphone values		Cluster Keys	dnClusterNameYOB
MOHAMMED, SANI	1969 1970 1971	MOHAM MED	MHMT	1969_S_MHMT 1969_M_SN 1970_S_MHMT 1970_M_SN	1969_S_MHMT 1969_M_SN 1970_S_MHMT 1970_M_SN
SULIMAN HAMD, SULEIMAN	1980 1981 1982	HAMD	HMT	1980_S_SLMN 1981_S_SLMN	1980_S_SLMN 1981_S_SLMN
		SULEIM AN	SLMN		
		SULIMA N	SLMN		

2.1.8 First and Last Name (dnClusterFirstLast)

The First and Last Name cluster provides a tighter name only clustering method that relies on the first given name and last family name matching after standardization and allows for variation in any of the name tokens in-between.

The default logic of the cluster builder is as follows:

- Strip initials from the normalized given name and family name.
- Strip all common name qualifiers from the normalized given names and family name, e.g. Al, Bin, Von.
- Extract the first token from the stripped given names. If all tokens were stripped in steps 1 and 2, then extract the first token from the original normalized given names.
- Extract the last token from the stripped family name. If all tokens were stripped in steps 1 and 2, then extract the last token from the original normalized family name.
- Trim the extracted values to a maximum length of 4 characters.
- Sort the trimmed values alphabetically and concatenate to generate the final key value.

Examples

Table 10 lists the Field Description for First and Last Name.

Table 10: First and Last Name

dnGivenNames	dnFamilyName	Extracted Values		dnClusterFirstLast
OSVALDO ANTONIO	CASTELL VALDEZ	OSVALDO	VALDEZ	OSVAVALD
ABU MAHDI	AL MUHANDIS	MAHDI	MUHANDIS	MAHDMUHA
ABU	NIDAL	ABU	NIDAL	ABUNIDA
V U	SHEIMAN	V	SHEIMAN	SHEIV

2.1.9 Original Script Name (dnClusterOriginalScript)

The Original Script Name cluster provides a clustering method for matching names represented in non-Latin writing systems. The cluster builder generates a key for each token in the name.

NOTE

A single cluster value of "Myanmar" is generated for original script names written in the Burmese alphabet irrespective of the name. This is needed because token splitting is not possible for the Myanmar writing system as it does not use a space character between words. As a result, all original script names in the Burmese script will be compared during matching. This should not cause performance issues during screening provided there are a low number of customer records using this writing system.

The default logic of the cluster builder is as follows:

- Split the original script name into several name tokens, using a space character as the delimiter.
- Trim each name token to a maximum of 5 characters.
- Concatenate all of the trimmed token values with a pipe separator.
- Deduplicate the list of keys.

Examples

Table 11 lists the Field Description for Original Script Name.

Table 11: Original Script Name

dnOriginalScriptName	dnClusterOriginalScript
Іван Антонович Шчурок	Іван Антон Шчуро
林紹憲	林 紹 憲
မြန်မာ	Myanmar
محمد محمد باقری	محمد باقری

2.1.10 First Initial Last Name (dnClusterInitials)

The First Initial Last Name cluster provides a clustering method to group together names that share the same first name initial and last name and allows some variation for transposed names.

The default logic of the cluster builder is as follows:

- Split the normalized given names into several name tokens, using a space character as the delimiter.
- Split the normalized family name into several name tokens, using a space character as the delimiter.
- Generate the cluster key value as follows:
 - If there are two or more characters in the last token of the family name, then concatenate the first character of the given name with the last token of the family name.
 - If the last token of the family name is a single initial, then concatenate that character with the first token of the given name.
- Trim the cluster key to a maximum of 12 characters.

Examples

Table 12 lists the Field Description for First Initial Last Name.

Table 12: First Initial Last Name

dnGivenNames	dnFamilyName	dnClusterFirstLast
MARTIN	JONES	MJONES
MARTIN PETER	JONES	MJONES
MARTIN	MORGAN JONES	MJONES
JONES	M	MJONES

2.2 Matching

Oracle Financial Services Customer Screening uses different approaches to matching for different use cases. For Sanctions screening, a zero-tolerance approach to matching is assumed, where secondary data such as dates and years of birth, and nationalities cannot necessarily be assumed to be correct. In this case, it may be important to present matches where there is a level of name match even if other data would indicate that a match is unlikely. When screening against lists of Politically Exposed Persons (PEPs) or other individuals on watch lists (Enhanced Due Diligence matching), where the occasional 'false negative' may be tolerable from a business perspective, match rules are generally 'tighter' and demand at least one item of secondary data (such as a nationality, year of birth or date of birth) matches as well as a name of match. However, the screening rules for each screening process can, and should, be tailored according to the business appetite to risk. Oracle Financial Services Customer Screening also provides separate processes for Batch and Real-Time screening, as these may be subject to different matching strategies.

The following general notes describe the approach to matching:

- Matches are ranked according to how well the name matches. An exact name match rates as a match at the highest level, with the lowest level being represented by two loosely possible name matches with a different name structure. Further ranking is imposed by how well additional

- information (such as city or country information, and date of birth information) matches between the records.
- Oracle Financial Services Customer Screening allows for various levels of name match, including, but not limited to:
 - Name variation recognition. This is carried out by name standardization. For example, all variations of Mohammed (Muhamad, Mohammad, Mohamed and so on) are substituted with 'Mohammed' when matching. This is particularly used for given names, though also applied when matching whole names. For example, more than 20 variations of the name 'Mohammed' are recognized and considered to be the same name.
 - Allowances for name abbreviation and initials. For example, 'Pete' is a possible match to 'Peter', and 'J' is a possible match to 'John'.
 - Allowances for typographical errors and transliteration differences. For example, 'Abdool' is a possible match to 'Abdul', even if the variants are not standardized.
 - Allowances for names being out of order or structured differently. For example, 'Mohammed Abbas Al-Tikriti' can be matched with 'Mohammed Al-Tikriti Abbas'.
 - Allowance for additional names. For example, 'Juan Carlos Ferreira' can be matched with 'Juan Ferreira'.
 - Allowance for names being split differently. For example, 'Xiao Jian' is a match to 'Xiaojian'.
 - Oracle Financial Services Customer Screening attempts to prevent false positives by various means, including, but not limited to, the following methods:
 - Backing up typo tolerance with Metaphone matching. For example, 'Mary' and 'Mark' are not considered a match, although they are only one character different.
 - Backing up typo tolerance with consideration of the percentage of characters that are different. For example, the initials 'A' and 'E' are not considered a match, even though they are only one character different.
 - Considering the different significance and commonality of name tokens. For example, if name qualifiers such as 'Al' are shared between two Arabic names, this is not as significant as if an uncommon name such as 'Abbas' is shared.
 - It is advisable to configure the set of match rules that are activated. In particular, you may wish to activate or deactivate some of the lower match rules in the list, which lead to the weakest name matches. Factors affecting the usefulness of these rules include:
 - the policies of the organization;
 - the quality of the customer data; and
 - the provenance of the customer data.

For example, Asian and Arabic names may be subject to more typographical and name ordering issues than other names. Where the data contains many of these names, the lower strength rules may identify more possible matches. The organization may want to review some or all of these as a matter of policy, or it may consider the matches too weak to review.

The required rules are easily activated or deactivated as needed in Oracle Financial Services Customer Screening.

2.2.1 Match Rules

The following match rules are involved in Individual Screening:

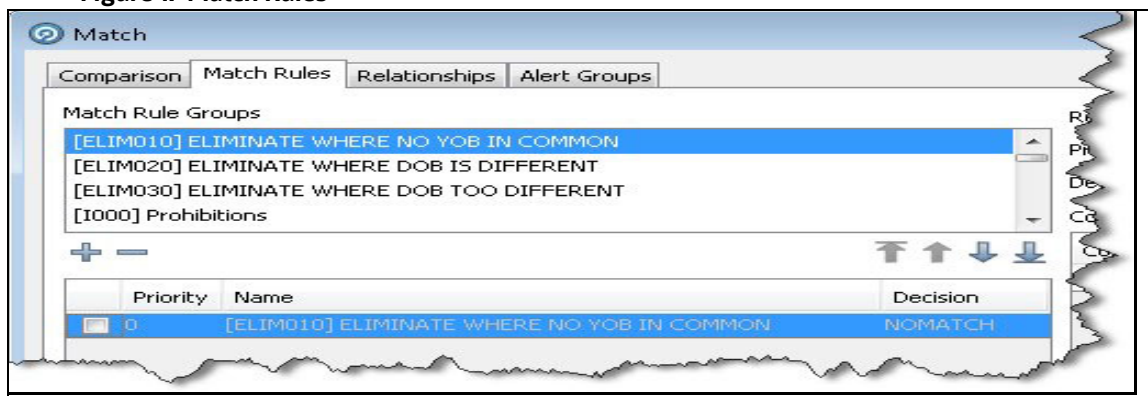
- The elimination rules. These are used in various positions in the rule templates to eliminate any records that have conflicting supporting data. The elimination rules may be moved up and down in order to change when they are applied during the matching process.
- The name matching rules. These are organized by the level of name match, with the strongest name matching rules placed at the top of the decision table.

NOTE

- Match rules are not ordered by strength across all identifiers. For example, a weaker name match that is strengthened by matches on date of birth, city, and country is likely to be a stronger overall match than a strong name with strongly contradictory data in the other fields.
- Oracle Financial Services Customer Screening includes many match rules for each level of name match, reflecting the match strength of any additional information, particularly date of birth and location data. The last rule in each set is a 'conflict' rule, and in many cases will be disabled by default. These rules allow records that fulfill the specified level of name match but have conflicting supporting data fields indicating that a true match is unlikely.
- The loose name matching rules. These are also based around name matching, but identify looser matches and are not enabled by default. These rules are likely to result in a large number of false-positive matches and are most likely to be of use when screening against sanctions lists, where it is important that no true matches are missed.




For the sake of clarity, match rules are divided into groups, as shown below:


Figure 1: Match Rules



As each group is selected, the match rules it contains are displayed in the window below.

The priority of the groups can be changed using the arrows below the Match Rules Group list. When a group is highlighted, you can:

- Click  to move it up one place on the list.
- Click  to move it down one place on the list.
- Click  to move it to the top of the list.

- Click  to move it to the bottom of the list.

The remainder of this section describes the matching rules that are present in Oracle Financial Services Customer Screening in greater detail.

2.2.2 Prohibition Rules

The Prohibition rules check for country information in an individual's record against the list of prohibited countries and nationalities maintained in List Management.

Table 13 lists the Field Description for Prohibition Rules.

Table 13: Prohibition Rules

Group Code	Matching Rule	Summary of Rule Logic
I000A	Country prohibition - Residency	The country of residence given matches a prohibited country.
I000B	Country prohibition - Nationality	The nationality given matches a prohibited nationality.

2.2.3 Elimination Rules

Table 14 lists the Field Description for Elimination Rules.

Table 14: Elimination Rules

Elimination Rule	Summary of Rule Logic	Enabled by default?
ELIMINATE WHERE NO YOB IN COMMON	This rule will eliminate pairs of records if both YOB fields are populated and there is no value in common.	Yes
ELIMINATE WHERE DOB IS DIFFERENT	This rule will eliminate pairs of records if both DOB fields are populated and there is no value in common.	No
ELIMINATE WHERE DOB TOO DIFFERENT	This rule will eliminate pairs of records if the date of birth differs too greatly between the two records. Pairs are eliminated if there are 6 or more years difference between DoBs, and one typographical error, and one typographical error in a month.	No
ELIMINATE WHERE GENDER IS DIFFERENT AND BOTH DERIVED OR BOTH STATED	This rule will eliminate pairs of records if the genders are different, and EITHER both records had the gender specified as part of the input record, OR both records have a gender value which was derived from other fields.	Yes

Table 14: Elimination Rules

ELIMINATE WHERE NO COUNTRY SHARED AND ALL SAFE	This rule will eliminate pairs of records if there are no countries in common in the Country fields, AND if all countries listed are on the Safe list. The Safe list is maintained in the Match - Individual Safe Countries ISO Codes Reference Data.	Yes
ELIMINATE WHERE NO NATIONALITIES IN COMMON	This rule will eliminate pairs of records if the Nationality fields contain no common entries.	Yes
ELIMINATE WHERE LIST OCCUPATION IS SAFE	This rule will eliminate pairs of records if the List Occupation field contains only values in the Match - Safe Occupations Reference Data.	Yes
ELIMINATE WHERE CUSTOMER RISK SCORE BELOW THRESHOLD	This rule will eliminate pairs of records if the Customer Risk Score is below a threshold specified in the corresponding screening process.	No
ELIMINATE WHERE LIST RISK SCORE BELOW THRESHOLD	This rule will eliminate pairs of records if the List Risk Score is below a threshold specified in the corresponding screening process.	No
ELIMINATE WHERE LIST PEP RISK SCORE BELOW THRESHOLD	This rule will eliminate pairs of records if the List PEP Risk Score is below a threshold specified in the corresponding screening process.	No

NOTE

No elimination rules are enabled by default for Sanction records.

2.2.4 Name Matching Rules

Table 15 lists the Field Description for Name Matching Rules.

Table 15: Name Matching Rules

Group Code	Matching Rule	Logic Summary	Example Matching Data			
I010	Exact name	Given names and family name match exactly. JOSEPH JOSEPH	TS A N G A T' SA N G A	Given Names	Family Name	

Table 15: Name Matching Rules

1020	Original script name exact	The original script Name fields match exactly. АЛЕКСАНДР ОСОКИН	А Л Е К С А Н Д Р О С О К И Н	Original Script Name	Original Script Name
1030	Standardized given name	Given names match after name standardization using Given name map. Family name matches exactly. BILL WILLIAM	JO N ES JO N ES	Given Names	Family Name
1040	Full name	The full name matches exactly, after standardization of all name tokens using the Given Name Map. JOHN MIKE SMITH JOHN MICHAEL SMITH		Full Names	
1050	Full name without titles	The full name matches exactly, after standardization of all name tokens using the Given Name Map and removal of titles. DR DOUGLAS BAKER DOUGLAS BAKER		Full Names	
1060	Abbreviated standardized given name	Given names match using a 'Starts With' comparison, after name standardization using the Given Name Map. Family name matches exactly. JOSEPH ABANDA JOSEPH		Given Names	Family Name
				TSANGA	
				T'SANGA	

Table 15: Name Matching Rules

I070 Group Code	Given name similar and sounds like	Given name matches with an Edit Distance of 1 or 2 after name standardization. At least one of the given names, excluding initials, must match by a 4- character Metaphone key. Family name matches exactly	Given Names	Family Name								
I070	Given name similar and sounds like	Given name matches with an Edit Distance of 1 or 2 after name standardization. At least one of the given names, excluding initials, must match by a 4- character Metaphone key. Family name matches exactly JOSEPH JOESPH ABANDA	<table border="1"> <thead> <tr> <th colspan="2">Given Names</th> <th colspan="2">Family Name</th> </tr> </thead> <tbody> <tr> <td>AB</td> <td>BAN</td> <td></td> <td></td> </tr> </tbody> </table>	Given Names		Family Name		AB	BAN			
Given Names		Family Name										
AB	BAN											
I080	First name similar and sounds like	The first given name matches with an Edit Distance of 1 or 2 and with a Character Match Percentage of 66% or more after given name standardization. At least one of the given names, excluding initials, must match by a 4- character Metaphone key. Family name matches exactly. AMER MOHAMMAD RASHEED AMIR RASHID MOHAMMED	<table border="1"> <thead> <tr> <th colspan="2">Given Names</th> <th colspan="2">Family Name</th> </tr> </thead> <tbody> <tr> <td>AL</td> <td>UBA</td> <td></td> <td></td> </tr> </tbody> </table>	Given Names		Family Name		AL	UBA			
Given Names		Family Name										
AL	UBA											
I090	Addition al given names	All name tokens from the given names field with fewest tokens must be present in the other given names field. Family name matches exactly. MOHAMMED DIN MOHAMED	<table border="1"> <thead> <tr> <th colspan="2">Given Names</th> <th colspan="2">Family Name</th> </tr> </thead> <tbody> <tr> <td></td> <td>HANIF</td> <td></td> <td></td> </tr> </tbody> </table>	Given Names		Family Name			HANIF			
Given Names		Family Name										
	HANIF											

Table 15: Name Matching Rules

I100	Additional names	<p>All name tokens from the full name with fewest tokens must be present in the other full name. At least 2 name tokens must match with the same matching logic; that is, if a name only has one token it is not considered a match. At least 2 name tokens must exist in the Full Name. Note: Word Match Count may return >1 if a single name matches twice in a longer name string. For example, 'ABDUL' matches 'ABDUL ABDUL' with a Word Match Count of 2.</p> <p>Matching is order sensitive.</p> <p>LOTFI RIHANI LOTFI BEN ABDUL HAMID BEN ALI RIHANI</p>		Full Name										
I110	Original script name in any order	<p>All names in the original script name fields match, regardless of order.</p> <p>Καρλος Μολινα</p>		Original Script Name		Original Script Name			Μολινα	Καρλος				
I120	Original script name with typos	<p>Original script name fields match with an 80%+ Character Match Percentage score.</p> <p>Καρλος Μολινα</p>		Original Script Name		Original Script Name			Καρλος	Μολινα				
I130	All names in any order	<p>All names in the full name match (using a Word Edit Distance of 0) after name token standardization, in any order. A single typo (1 character edit) is allowed in each name token.</p> <p>ABDUL JABBER OMARI OMARI ABDUL JABBER</p>		Full Name										

Table 15: Name Matching Rules

l140 Group Code	Abbreviated given name	Given names match using a 'Starts With' comparison. Family name is a close Metaphone match. CHRIS CHRISTOPHER	Given Names		Family Name	
				HUNT		
				HUNTER		
l150	Abbreviated given name and family name types	Given names match using a 'Starts With' comparison, after name standardization using Given Name Map. Family name matches with an edit difference of 1-2. At least one of the family name tokens, excluding initials, must match by a 4character Metaphone key.	Given Names		Family Name	
			IBRAHIM ABDUL SALAM		MOHA MED BOYASS EER	
			IBRAHIM		BOYASE ER	

Table 15: Name Matching Rules

<p>1160</p>	<p>Abbre- via- ted giv- en na- me wit- ho- ut tit- les and fa- mil- y na- me wit- h typ- os</p>	<p>The first given name matches with a "Starts With" match, after name token standardization and stripping titles. Family name matches with an edit difference of 12. At least one of the family name tokens, excluding initials, must match by a 4character Metaphone key.</p>	<table border="1"> <tr> <td colspan="10">Given Names</td> <td rowspan="2">F a m i l y N a m e</td> </tr> <tr> <td>SAHIR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>BAR HAN</td> </tr> <tr> <td>DR SAHIR MUSA</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>BERH IN</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Given Names										F a m i l y N a m e	SAHIR										BAR HAN	DR SAHIR MUSA										BERH IN											
Given Names										F a m i l y N a m e																																					
SAHIR											BAR HAN																																				
DR SAHIR MUSA										BERH IN																																					
<p>1170</p>	<p>Ori- gin- al scr- ipt na- me in an- y or- der wit- h typ- os</p>	<p>All names in the original script name fields match, regardless of order, with each name requiring an 80%+ Character Match Percentage score.</p>	<table border="1"> <tr> <td colspan="10">Original Script Name</td> <td rowspan="2">O r i g i n a l S c r i p t N a m e</td> </tr> <tr> <td>Хасан Ченгић</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Ченгић Хасан</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Original Script Name										O r i g i n a l S c r i p t N a m e	Хасан Ченгић										Ченгић Хасан																						
Original Script Name										O r i g i n a l S c r i p t N a m e																																					
Хасан Ченгић											Ченгић Хасан																																				

Table 15: Name Matching Rules

<p>1180</p>	<p>First name and full name similar and sounds like</p>	<p>The full name matches with a Character Match Percentage of 80% or above, after name token standardization. At least one of the family name tokens, excluding initials, must match by a 4-character Metaphone key.</p>	<table border="1"> <tr> <td colspan="2" style="background-color: #cccccc;">Given Names</td> <td style="background-color: #cccccc;">F</td> <td style="background-color: #cccccc;">a</td> <td style="background-color: #cccccc;">m</td> <td style="background-color: #cccccc;">i</td> <td style="background-color: #cccccc;">l</td> <td style="background-color: #cccccc;">y</td> <td style="background-color: #cccccc;">N</td> <td style="background-color: #cccccc;">a</td> <td style="background-color: #cccccc;">m</td> <td style="background-color: #cccccc;">e</td> </tr> <tr> <td>MOHAM MAD HUSAYN</td> <td style="background-color: #cccccc;"></td> <td colspan="10">MASTASAEED</td> </tr> <tr> <td>MOHAM MAD HASSAN</td> <td style="background-color: #cccccc;"></td> <td colspan="10">MASTASAEED</td> </tr> </table>	Given Names		F	a	m	i	l	y	N	a	m	e	MOHAM MAD HUSAYN		MASTASAEED										MOHAM MAD HASSAN		MASTASAEED									
Given Names		F	a	m	i	l	y	N	a	m	e																												
MOHAM MAD HUSAYN		MASTASAEED																																					
MOHAM MAD HASSAN		MASTASAEED																																					
<p>1190</p>	<p>Given name similar and family name sounds like</p>	<p>The given name matches with an Edit Distance of 1 or 2, after name standardization. The given name matches by 4-character Metaphone key, after name standardization. The family name matches with an Edit Distance of 1-2. The family name matches by 4-character Metaphone key.</p>	<table border="1"> <tr> <td colspan="2" style="background-color: #cccccc;">Given Names</td> <td style="background-color: #cccccc;">F</td> <td style="background-color: #cccccc;">a</td> <td style="background-color: #cccccc;">m</td> <td style="background-color: #cccccc;">i</td> <td style="background-color: #cccccc;">l</td> <td style="background-color: #cccccc;">y</td> <td style="background-color: #cccccc;">N</td> <td style="background-color: #cccccc;">a</td> <td style="background-color: #cccccc;">m</td> <td style="background-color: #cccccc;">e</td> </tr> <tr> <td>AMER MOHAM MAD RASHEE D</td> <td style="background-color: #cccccc;"></td> <td colspan="10">AL UBAIDI</td> </tr> <tr> <td>AMIR RASHID MOHAM MED</td> <td style="background-color: #cccccc;"></td> <td colspan="10">AL UBEIDI</td> </tr> </table>	Given Names		F	a	m	i	l	y	N	a	m	e	AMER MOHAM MAD RASHEE D		AL UBAIDI										AMIR RASHID MOHAM MED		AL UBEIDI									
Given Names		F	a	m	i	l	y	N	a	m	e																												
AMER MOHAM MAD RASHEE D		AL UBAIDI																																					
AMIR RASHID MOHAM MED		AL UBEIDI																																					

Table 15: Name Matching Rules

<p>I200</p>	<p>Abbre- via- ted giv- en na- me and fa- mil- y na- me si- mil- ar</p>	<p>The first given name matches with a "Starts With" match, after name token standardization. The family name matches with an Edit Distance of 1 or 2. The family name matches by 4-character Metaphone key.</p>	<table border="1"> <tr> <td colspan="4" style="background-color: #cccccc;">Given names</td> <td style="background-color: #cccccc;">F</td> <td style="background-color: #cccccc;">a</td> <td style="background-color: #cccccc;">m</td> <td style="background-color: #cccccc;">i</td> <td style="background-color: #cccccc;">l</td> <td style="background-color: #cccccc;">y</td> <td style="background-color: #cccccc;">n</td> <td style="background-color: #cccccc;">a</td> <td style="background-color: #cccccc;">m</td> <td style="background-color: #cccccc;">e</td> </tr> <tr> <td>VIKTOR</td> <td></td> <td></td> <td>H</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ANATOL</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>YEVIC</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>VICTOR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>BOOT</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Given names				F	a	m	i	l	y	n	a	m	e	VIKTOR			H											ANATOL														YEVIC														VICTOR												BOOT																																													
Given names				F	a	m	i	l	y	n	a	m	e																																																																																																								
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VICTOR												BOOT																																																																																																									
<p>I210</p>	<p>Ori- gin- al scr- ipt na- me ad- diti- onal na- me s</p>	<p>All names in one original script name field must be fully contained within the other field, provided there are at least two names in each field.</p>	<table border="1"> <tr> <td colspan="4" style="background-color: #cccccc;">Original Script Name</td> <td style="background-color: #cccccc;">O</td> <td style="background-color: #cccccc;">r</td> <td style="background-color: #cccccc;">i</td> <td style="background-color: #cccccc;">g</td> <td style="background-color: #cccccc;">i</td> <td style="background-color: #cccccc;">n</td> <td style="background-color: #cccccc;">a</td> <td style="background-color: #cccccc;">l</td> <td style="background-color: #cccccc;">S</td> <td style="background-color: #cccccc;">c</td> <td style="background-color: #cccccc;">r</td> <td style="background-color: #cccccc;">i</td> <td style="background-color: #cccccc;">p</td> <td style="background-color: #cccccc;">t</td> <td style="background-color: #cccccc;">N</td> <td style="background-color: #cccccc;">a</td> <td style="background-color: #cccccc;">m</td> <td style="background-color: #cccccc;">e</td> </tr> <tr> <td>Миленк</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>оВрачар</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Original Script Name				O	r	i	g	i	n	a	l	S	c	r	i	p	t	N	a	m	e	Миленк																							оВрачар																																																																				
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оВрачар																																																																																																																					

Table 15: Name Matching Rules

I220 Group Code	Additional names typographical error	<p>All name tokens from the full name with fewest tokens must be present in the other full name. A character error tolerance of 20% is allowed (that is, one character edit every 5 characters). At least 2 name tokens must match with the same matching logic. If a name contains only one token it is not considered a match according to this rule. Note: Word Match Count may return >1 if a single name matches twice in a longer name string. For example, 'ABDUL' matches 'ABDUL ABDUL' with a Word Match Count of 2. Matching is order sensitive.</p>		Full Name				
				ABDUL WAHED SHAFIQ				
				ABDUL WAHAD				
I230	Full name contained and multiple names in common	<p>The full name matches with a 'Contains' match, after standardization of all name tokens using the Given Name Map. At least 2 name tokens must match in the full name.</p> <p>ABU BAKAR ABU BAKAR BA'ASYI</p>		Full Name				

Table 15: Name Matching Rules

I240	Full name characters longer	<p>The full name matches with a Longest Common Substring Sum Percentage of 90%+, relating to the longer string, and considering substrings of 5 characters or more in length, after name standardization.</p> <p>MOHAMMED AL GHABRA ALGHABRA MUHAMAD RAMATULLAH WAHIDYAR FAQIR MOHAMMAD WAHIDYAR RAMA TULLAH</p>	Full Name					
I250	Original script names with typos	<p>All names in one original script name field must be fully contained within the other field, provided there are at least two names (all of which have an 80%+ Character Match Percentage) in each field.</p> <p>Юри Неёлов Юрий Васильевич Неёлов</p>	Original Script Name	Original Script Name				
I260	Abbreviated first name	<p>The first given name matches with a "Starts With" match, after name token standardization. Family name matches exactly.</p> <p>KHADAF ABUBAKAR JANJALANI KHADAFFI JANJALANI</p>	Given Names	Family Name				

Table 15: Name Matching Rules

I270	Additional names in any order	<p>All name tokens from the full name with fewest tokens must be present in the other full name. At least 2 name tokens must match with the same matching logic. If a name contains only one token it is not considered a match according to this rule. Note: Word Match Count may return >1 if a single name matches twice in a longer name string. For example, 'ABDUL' matches 'ABDUL ABDUL' with a Word Match Count of 2.</p> <p>Matching is not order-sensitive.</p> <p>HA THI NGUYEN THI HA</p>	<table border="1"> <thead> <tr> <th colspan="6">Full Name</th> </tr> </thead> <tbody> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Full Name																							
Full Name																											
I280	Additional names in any order tolerant	<p>All name tokens from the full name with fewest tokens must be present in the other full name. A character error tolerance of 20% is allowed (that is, one character edit every 5 characters). At least 2 name tokens must match with the same matching logic. If a name contains only one token it is not considered a match according to this rule.</p> <p>Note: Word Match Count may return >1 if a single name matches twice in a longer name string. For example, 'ABDUL' matches 'ABDUL ABDUL' with a Word Match Count of 2.</p> <p>Matching is not order-sensitive.</p> <p>STEPHENS MARTIN MARRTIN JOHN STEPHENS</p>	<table border="1"> <thead> <tr> <th colspan="6">Full Name</th> </tr> </thead> <tbody> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Full Name																							
Full Name																											

2.2.5 Loose Name Matching Rules

Table 16 lists the Field Description for Loose Name Matching Rules.

Table 16: Loose Name Matching Rules

Group Code	Matching Rule	Summary of Rule Logic	Example Matching Data

Table 16: Loose Name Matching Rules

I290	Full name characters shorter	The full name matches with a Longest Common Substring Sum Percentage of 90%, relating to the shorter string, and considering substrings of 5 characters or more in length, after name standardization. At least 2 name tokens must exist in the full name.	<div style="background-color: #cccccc; padding: 2px;">Full Name</div> AB U BA KA R <hr/> AB U BA KA R BA' AS YI
I300	Full name no initials match with initials in any order relating to shorter	All initials in one Full Name field must be fully contained within the initials of the other Full Name field; AND the standardized Full Name field without initial must be fully contained within the other standardized Full Name field without initials; AND both fields must contain at least two names.	<div style="background-color: #cccccc; padding: 2px;">Full Name</div> CA RL J FIS HE R <hr/> J C FIS HE R
I310	Full name contained, last initial same, primary list is single token	The Full Name field from the watch list record contains only one name, which is fully contained within the record being screened; AND the initial of the last name in the record being screened must match the initial of the name in the watch list record.	<div style="background-color: #cccccc; padding: 2px;">Full Name</div> JA NIN E CH ER RY <hr/> CH ER RY

1.1.1 Deprecated Name Matching Rules

The following rules are assigned the Rule Group Code I990. These are legacy rules that are superseded by the Deprecated Name Matching Rules set, and are included here to assist existing Customer Screening customers with the transition to the current version.

Table 17 lists the Field Description for Deprecated Name Matching Rules (Given name in common).

Table 17: Deprecated Name Matching Rules (Given name in common)

Name matching rule	Summary of rule logic	Example matching data	
Given name in common	At least one given name is found in common, after name standardization. Family name matches exactly.	Given Names	Family Name
		HASS ANALI	AL TIKRIT I
		IBRAH IM HASS AN	AL TIKRIT I

Table 18 lists the Field Description for Deprecated Name Matching Rules.

Table 18: Deprecated Name Matching Rules

Name matching rule	Summary of rule logic	Example matching data	
Full name similar and family name sounds like	Full name matches with a Character Match Percentage of 80% or more after name standardization. At least one of the family name tokens (excluding initials) must match by a 4character Metaphone key.	Full Name	
		AKHYAR MOHAMMED MANSOUR	
		AKHTAR MUHAMED MANZUR	

Table 18 lists the Field Description for Deprecated Name Matching Rules.

Table 18: Deprecated Name Matching Rules

Similar first name	The first given name matches with an edit distance of between 1 and 2 after name standardization, and with a Character Match Percentage of 66% or more. Family name matches exactly.		Given Names	Family Name
			MIKO LAI	METELITSA
			NIKOL AI TIMO FEEVI CH	METELITSA
Similar first name and family name	The first given name matches with an edit distance of between 1 and 2 after name standardization, and with a Character Match Percentage of 66% or more. Family name matches with a Character Match Percentage of 66% or more. At least one of the family name tokens (excluding initials) must match by a 4-character Metaphone key.		Given Names	Family Name
			GENN ADY	NEVYGLAS
			GENN ADIY	NYAVIGLAS
Given names in common and similar family name and sounds like	At least one given name is found in common, after name standardization. The family name matches with a Character Edit Distance of 1-2. The family name matches by 4-character Metaphone key.		Given Names	Family Name
			ABDUL JABBAR	OMAI RI
			FAROUK ABDUL	OMAR I
Abbreviated standardized given name and family name contained	Given names match using a 'Starts With' comparison, after name standardization using the Given Name Map. Family name matches using 'Contains' comparison after token standardization.		Given Names	Family Name
			A	RAHIMI
			ABDU L	RAHIM

Table 18 lists the Field Description for Deprecated Name Matching Rules.

Table 18: Deprecated Name Matching Rules

Similar given name	The given name matches with a Character Edit Distance of between 1 and 2 after name standardization. Family name matches exactly.		Given Names	Family Name
			NAY	WIN
			NYAW	WIN
Full name contained	The full name matches with a 'Contains' match, after standardization of all name tokens using the Given Name Map.		Full Name	
			CHARNI KOKO	
			KO KO	
Full name similar	The full name matches with a Character Match Percentage of 80% or above, after name token standardization.		Full Name	
			JUAN LOIS RUBENACHROIG	
			JUAN LOIS RUBENACH ROIZ	
Abbreviated first name and similar family name	The first given name matches with a 'Starts With' match, after name token standardization. The family name matches with a Character Edit Distance of 1-2.		Given Names	Family Name
			A	UMARI
			ABU	OMAR
Given name in common and similar family name	At least one given name is found in common, after name standardization. The family name matches with a Character Edit Distance of 1-2. The family name matches by 4-character Metaphone key.		Given Names	Family Name
			NURJ AMAN RIDUAN	ISAMU DIN
			RIDUAN	ISOMUDDIN

Table 18 lists the Field Description for Deprecated Name Matching Rules.

Table 18: Deprecated Name Matching Rules

First name and family similar	The first given name matches with a Character Edit Distance of between 1 and 2 after name standardization, and with a Character Match Percentage of 66% or more. Family name matches with a Character Match Percentage of 66% or more.		Given Names	Family Name
			REGIN ADL	GOODRIDGE
			REGIN ALD	GOODRICH

2.1.2 Ranking matches within Name rules

Table 19 lists the Field Description for Ranking matches within Name rules.

Table 19: Ranking matches within Name rules

Match Rule	Summary of Matching Logic	Example Matching Data				
[Name rule], city, DoB	At least one city matches. The date of birth matches exactly.	DoB	City			
		01/11/1963	London			
		01/11/1963	New York London			

Table 19: Ranking matches within Name rules

<p>[Name rule], country, DoB</p>	<p>At least one country matches. The date of birth matches exactly.</p>	<table border="1"> <thead> <tr> <th data-bbox="1003 235 1198 277">DoB</th> <th colspan="4" data-bbox="1198 235 1372 277">Country</th> </tr> </thead> <tbody> <tr> <td data-bbox="1003 277 1198 646">2 5 7 0 1 7 1 9 5 9</td> <td data-bbox="1198 277 1230 646">PK</td> <td data-bbox="1230 277 1263 646">IN</td> <td data-bbox="1263 277 1295 646">US</td> <td data-bbox="1295 277 1328 646"></td> <td data-bbox="1328 277 1372 646"></td> </tr> <tr> <td data-bbox="1003 646 1198 1016">2 5 7 0 1 7 1 9 5 9</td> <td data-bbox="1198 646 1230 1016">PK</td> <td data-bbox="1230 646 1263 1016"></td> <td data-bbox="1263 646 1295 1016"></td> <td data-bbox="1295 646 1328 1016"></td> <td data-bbox="1328 646 1372 1016"></td> </tr> </tbody> </table>	DoB	Country				2 5 7 0 1 7 1 9 5 9	PK	IN	US			2 5 7 0 1 7 1 9 5 9	PK															
DoB	Country																													
2 5 7 0 1 7 1 9 5 9	PK	IN	US																											
2 5 7 0 1 7 1 9 5 9	PK																													
<p>[Name rule], DoB</p>	<p>The date of birth matches exactly.</p>	<table border="1"> <thead> <tr> <th colspan="6" data-bbox="1003 1062 1372 1104">DoB</th> </tr> </thead> <tbody> <tr> <td data-bbox="1003 1104 1036 1474">1 9 7 0 9 7 1 9 6 8</td> <td data-bbox="1036 1104 1068 1474"></td> <td data-bbox="1068 1104 1101 1474"></td> <td data-bbox="1101 1104 1133 1474"></td> <td data-bbox="1133 1104 1166 1474"></td> <td data-bbox="1166 1104 1198 1474"></td> <td data-bbox="1198 1104 1230 1474"></td> <td data-bbox="1230 1104 1263 1474"></td> <td data-bbox="1263 1104 1295 1474"></td> <td data-bbox="1295 1104 1328 1474"></td> <td data-bbox="1328 1104 1372 1474"></td> </tr> <tr> <td data-bbox="1003 1474 1036 1843">1 9 7 0 9 7 1 9 6 8</td> <td data-bbox="1036 1474 1068 1843"></td> <td data-bbox="1068 1474 1101 1843"></td> <td data-bbox="1101 1474 1133 1843"></td> <td data-bbox="1133 1474 1166 1843"></td> <td data-bbox="1166 1474 1198 1843"></td> <td data-bbox="1198 1474 1230 1843"></td> <td data-bbox="1230 1474 1263 1843"></td> <td data-bbox="1263 1474 1295 1843"></td> <td data-bbox="1295 1474 1328 1843"></td> <td data-bbox="1328 1474 1372 1843"></td> </tr> </tbody> </table>	DoB						1 9 7 0 9 7 1 9 6 8											1 9 7 0 9 7 1 9 6 8										
DoB																														
1 9 7 0 9 7 1 9 6 8																														
1 9 7 0 9 7 1 9 6 8																														

Table 19: Ranking matches within Name rules

<p>[Name rule], city, YoB, no DoB</p>	<p>At least one city matches. Year of birth matches. No date of birth provided.</p>	<table border="1"> <thead> <tr> <th data-bbox="998 226 1084 342">YoB</th> <th data-bbox="1084 226 1317 342">City</th> <th data-bbox="1317 226 1372 342">D o B</th> </tr> </thead> <tbody> <tr> <td data-bbox="998 342 1084 835">1 9 7 8</td> <td data-bbox="1084 342 1317 835">L a h o r e l M u m b a i</td> <td data-bbox="1317 342 1372 835">-</td> </tr> <tr> <td data-bbox="998 835 1084 1186">1 9 7 8</td> <td data-bbox="1084 835 1317 1186">L a h o r e</td> <td data-bbox="1317 835 1372 1186">-</td> </tr> </tbody> </table>	YoB	City	D o B	1 9 7 8	L a h o r e l M u m b a i	-	1 9 7 8	L a h o r e	-
YoB	City	D o B									
1 9 7 8	L a h o r e l M u m b a i	-									
1 9 7 8	L a h o r e	-									
<p>[Name rule], country, YoB, no DoB</p>	<p>At least one country matches. Year of birth matches. No date of birth provided.</p>	<table border="1"> <thead> <tr> <th data-bbox="998 1186 1084 1302">YoB</th> <th data-bbox="1084 1186 1317 1302">Country</th> <th data-bbox="1317 1186 1372 1302">D o B</th> </tr> </thead> <tbody> <tr> <td data-bbox="998 1302 1084 1512">1 9 6 2</td> <td data-bbox="1084 1302 1317 1512">I Q U S</td> <td data-bbox="1317 1302 1372 1512">-</td> </tr> <tr> <td data-bbox="998 1512 1084 1732">1 9 6 2</td> <td data-bbox="1084 1512 1317 1732">I Q</td> <td data-bbox="1317 1512 1372 1732">-</td> </tr> </tbody> </table>	YoB	Country	D o B	1 9 6 2	I Q U S	-	1 9 6 2	I Q	-
YoB	Country	D o B									
1 9 6 2	I Q U S	-									
1 9 6 2	I Q	-									

Table 19: Ranking matches within Name rules

<p>[Name rule], YoB, no DoB</p>	<p>Year of birth matches. No date of birth provided.</p>	<p>YoB</p>		<p>D o B</p>
		1 9 7 5		-
		1 9 7 5		-
<p>[Name rule], city, DoB similar Match Rule</p>	<p>At least one city matches. Dates of birth are a close match, according to one of the following parameters only: DD and MM values are transposed, but YYYY matches exactly. DD and MM match, YYYY does not. DD and YYYY match, MM does not. DD values differ by 5 or less.</p>	<p>DoB</p>		<p>City</p>
		0 8 7 0 4 7 1 9 6 7		R i y a d h
		0 4 7 0 8 7 1 9 6 7		R i y a d h

Table 19: Ranking matches within Name rules

[Name rule], country, DoB similar	At least one country matches. Dates of birth are a close match, according to one of the following parameters only: DD and MM values are transposed, but YYYY matches exactly. DD and MM match, YYYY does not. DD and YYYY match, MM does not. DD values differ by 5 or less.	DoB				Country			
		0				S			
		8				A			
		/							
		0							
		4							
		/							
		1							
		9							
		6							
		7							
		7							

Table 19: Ranking matches within Name rules

[Name rule], DoB similar	Dates of birth are a close match, according to one of the following parameters only: DD and MM values are transposed, but YYYY matches exactly. DD and MM match, YYYY does not. DD and YYYY match, MM does not. DD values differ by 5 or less.	DoB										
		1										
		9										
		/										
		0										
		6										
		/										
		1										
		9										
		6										
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1												
9												
6												
7												
-												

Table 19: Ranking matches within Name rules

[Name rule], city, YoB (DoB conflict)	At least one city matches. Year of birth matches. Dates of birth do not match.		Y o B	City	DoB
		1 9 7 8	L a h o r e M u m b a i	1 3 / 0 4 / 1 9 7 8	1 9 7 8

Table 19: Ranking matches within Name rules

[Name rule], country, YoB (DoB conflict)	At least one country matches. Year of birth matches. Dates of birth do not match.		Y o B	Country	DoB
		1 9 6 2		I Q	0 5 / 0 7 / 1 9 6 2
		1 9 6 2		I Q	0 4 / 1 1 / 1 1 9 6 2
[Name rule] YoB (DoB conflict)	Year of birth matches. Dates of birth do not match.		YoB		DoB
		1 9 6 2			0 5 / 0 7 / 1 9 6 2
		1 9 6 2			0 4 / 1 1 / 1 1 9 6 2

Table 19: Ranking matches within Name rules

[Name rule], city	At least one city matches.	<table border="1"><tr><td colspan="10">City</td></tr><tr><td>L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>a</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>h</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>o</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>r</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>e</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>l</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>M</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>u</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>n</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>b</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>a</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>i</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>a</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>h</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>o</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>r</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>e</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	City										L										a										h										o										r										e										l										M										u										n										b										a										i										L										a										h										o										r										e									
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Table 19: Ranking matches within Name rules

<p>[Name rule] only</p>	<p>The name rule returns a match. No data in other fields.</p>	<table border="1"> <thead> <tr> <th colspan="2">Name</th> <th colspan="2">Country</th> <th colspan="2">DoB</th> </tr> </thead> <tbody> <tr> <td>J</td> <td>S</td> <td>-</td> <td></td> <td>-</td> <td></td> </tr> <tr> <td>M</td> <td>I</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>T</td> <td>H</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>H</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name		Country		DoB		J	S	-		-		M	I					T	H					H																																																																																															
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<p>[Name rule] (conflict)</p>	<p>The name rule returns a match. Data in other fields do not match.</p>	<table border="1"> <thead> <tr> <th colspan="2">Name</th> <th colspan="2">Country</th> <th colspan="2">DoB</th> </tr> </thead> <tbody> <tr> <td>J</td> <td>S</td> <td>I</td> <td></td> <td>0</td> <td></td> </tr> <tr> <td>M</td> <td>I</td> <td>O</td> <td></td> <td>5</td> <td></td> </tr> <tr> <td>T</td> <td>H</td> <td></td> <td></td> <td>/</td> <td></td> </tr> <tr> <td>H</td> <td></td> <td></td> <td></td> <td>0</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>7</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>/</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>9</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>6</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> </tr> <tr> <td>J</td> <td>S</td> <td>U</td> <td></td> <td>0</td> <td></td> </tr> <tr> <td>M</td> <td>I</td> <td>K</td> <td></td> <td>4</td> <td></td> </tr> <tr> <td>T</td> <td>H</td> <td></td> <td></td> <td>/</td> <td></td> </tr> <tr> <td>H</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>/</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>9</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>7</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>4</td> <td></td> </tr> </tbody> </table>	Name		Country		DoB		J	S	I		0		M	I	O		5		T	H			/		H				0						7						/						1						9						6						2		J	S	U		0		M	I	K		4		T	H			/		H				1						/						1						9						7						4	
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Table 19: Ranking matches within Name rules

E040	Name without suffixes exact	The entity names match exactly after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed.	CAPITAL DIRECT LTD
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Table 19: Ranking matches within Name rules

E050	Name without business words similar and sounds like	The entity names match with a Word Match Percentage of 80% after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The first word of each name has the same 4-character Metaphone key.	PARAGON UK P A R A G O N - I N V E S T M E N T C O O P E R A T I O N
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Table 19: Ranking matches within Name rules

E060	Name without business words exact	The entity names match exactly after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed.	LIFE HEALTHCARE GROUP HOLDINGS LTD	L	I	F	E	H	E	A	L	T	H	C	A	R	E	I	N	C
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Table 19: Ranking matches within Name rules

E070	Name without business words has all words out-oforder	All remaining words in each entity name match exactly, but in any order, after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed.	EDUCATION FOR HEALTH			
			H E A L T H	E D U C A T I O N	S E R V I C E S	

Table 19: Ranking matches within Name rules

E080	Name without suffixes 'Starts With' and multiple names in common	The entity names are a 'Starts With' match after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. There are at least two significant words (not common business words) in common between the two names. The listed name is not an acronym alias of a longer primary entity name.	<p>BAE SYSTEMS (LANCASTER HOUSE) LIMITED</p> <p>B A E S Y S T E M S L I M I T E D</p>
E090	Name without business words has all words with typos	All remaining words in each entity name match with a Character Match Percentage of 80 or more, after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed.	<p>GERBERA ASSOCIATES LTD</p> <p>G E R B E R A A S S O C I A T E S L T D</p>
E100 Group Code	Original script name in any order	All words in the Original Script Names match exactly, in any order.	<p>ОАО НИАЭП</p> <p>Н И А Э П О А О</p>

Table 19: Ranking matches within Name rules

E110	Original script name with typos	The Original Script Names match with a Character Match Percentage of 80% or more.	Επαναστατική Αριστερά	Ε	Π	Ο	Ν	Ο	Τ	Ο	Ι	Κ	Ρ	Α	Ρ	Ι	Ο	Τ	Ε	Ρ	Ο
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Table 19: Ranking matches within Name rules

<p>E120</p>	<p>Name without business words with typos, and sounds like</p>	<p>The entity names match with a Character Match Percentage of 80 or more after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The first word of each name has the same 4-character Metaphone key and the first three letters of each name are the same.</p>	<p>GOLDSTREAM PROPERTIES LTD</p>	<p>G O L D S T R E A M - P R O P E R T I E S - L T D</p>			
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Table 19: Ranking matches within Name rules

<p>E130</p>	<p>Name without suffixes contains, similar and multiple names in common</p>	<p>The entity names are a 'Contains' match and the Word Edit Distance is no more than one between the names (where each word matches with a Character Match Percentage of 80 or more), after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. There are at least two significant words (not common business words) in common between the two names.</p>	<p>HAMPSHIRE HERITAGE DEVELOPMENTS LTD</p>	<p>H E R I T A G E</p>	<p>D E V E L O P M E N T S</p>	<p>L T D</p>	<p></p>
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Table 19: Ranking matches within Name rules

<p>E140</p>	<p>Name has additional words, sounds like and multiple names in common</p>	<p>All words in the shorter entity name exist in the longer entity name (in order) after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. There are at least two significant words (not common business words) in common between the two names. The list name is not an acronym alias of a longer primary entity name.</p>	<p>MOSCOW CITY CENTER PLC</p> <p>M O S C O W C E N T E R</p>
<p>E150</p>	<p>Name without business words contains, sounds like and multiple names in common</p>	<p>The entity name is a 'Contains' match with a listed entity name, after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. There are at least two significant words (not common business words) in common between the two names. The first word of each name has the same 4-character Metaphone key.</p>	<p>HI-TECH RECRUITMENT LTD</p> <p>H I T E C H R E C R U I T M E N T L T D</p>

Table 19: Ranking matches within Name rules

E160	Original script name in any order with typos	All words in the original script name match with a Character Match Percentage of 80 or more, in any order.	Μαύρος Σεπτέμβρης				
			Σ				
			ε				
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Table 19: Ranking matches within Name rules

<p>E170 Group Code</p>	<p>Name without business words has most words out-oforder</p>	<p>The entity names match (in any order) with a Word Match Percentage of between 75 and 99, after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The list name is not an acronym alias of a longer primary entity name.</p>	<p>BACK TO HEALTH CLINICS LIMITED</p>	<p>B A C K T O H E A L T H C H I R O P R A C T I C</p>			
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Table 19: Ranking matches within Name rules

<p>E180</p>	<p>Name without business words, similar, sounds like, with multiple names and a residual token in common</p>	<p>All words in the shorter entity name exist in the longer entity name (in order) after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. There are at least two significant words (not common business words) in common between the two names, and at least one of these is not a word in the English dictionary or a very common word in Watchlist name data. The list name is not an acronym alias of a longer primary entity name.</p>	<p>CHARLES ASH UK LTD</p>	<p>C H A R L E S A S H C O N S T R U C T I O N C O O I N C</p>				
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Table 19: Ranking matches within Name rules

<p>E190</p>	<p>Name without business words, similar with typos, sounds like, with multiple names and residual token in common.</p>	<p>All words in the shorter entity name match with a Character Match Percentage of 80 or more in the longer entity name (in order) after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. There are at least two significant words (not common business words) that match with a Character Match Percentage of 80 or more, and at least one of these is not a word in the English dictionary or a very common word in Watchlist name data. The list name is not an acronym alias of a longer primary entity name.</p> <p>The group name differs from the rule name.</p>	<p>CLARKS HOME BAKERY LTD</p>					
			<p>C L A R K H O M E S I N C</p>					

Table 19: Ranking matches within Name rules

<p>E200</p>	<p>Name without business words, similar, sounds like, and residual token in common</p>	<p>All words in the shorter entity name match in the longer entity name (in order) after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The names match with a Word Match Percentage of 50 or more when common business words are not stripped. There are at least two significant words (not common business words) that match. The first word of each name has the same 4-character Metaphone key. The list name is not an acronym alias of a longer primary entity name.</p>	<table border="1"> <tr> <td colspan="5">AMERICAN MILITARY SUPPLY</td> </tr> <tr> <td>A</td> <td>M</td> <td></td> <td></td> <td></td> </tr> <tr> <td>E</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>R</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>I</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>N</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>S</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>U</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>P</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>P</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>L</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>L</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Y</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>O</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	AMERICAN MILITARY SUPPLY					A	M				E					R					I					C					A					N					S					U					P					P					L					L					Y					C					O				
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Table 19: Ranking matches within Name rules

<p>E210</p>	<p>Name has additional words tolerant, sounds like and multiple names in common</p>	<p>All words in the shorter entity name match in the longer entity name (in order) with a Character Match Percentage of 80 or more after number cardinal and ordinal standardization. There are at least two significant words (not common business words) in common between the two names. The list name is not an acronym alias of a longer primary entity name.</p>	<p>GENERAL ATOMICS</p>	<p>G E N E R A L</p>	<p>B U R E A U</p>	<p>O F</p>	<p>A T O M I C</p>	<p>E N E R G Y</p>	<p>G E A R</p>
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Table 19: Ranking matches within Name rules

E220	Name without suffixes contains, similar and residual token in common	The entity names are a 'Contains' match and the Word Edit Distance is no more than one between the names (where each word matches with a Character Match Percentage of 80 or more), after number cardinal and ordinal standardization, and after common company	ACCLAIM ACM LTD A C M
		prefixes and suffixes are removed. There is at least one significant word in common (not a common business word, a word in the English dictionary or a very common word in Watchlist name data).	
E230	Name without suffixes 'Starts With' and residual token in common	The entity names are a 'Starts With' match after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. There is at least one significant word in common (not a common business word, a word in the English dictionary or a very common word in Watchlist name data). The listed name is not an acronym alias of a longer primary entity name.	ENRON METALS BROKERS LTD E N R O N C O R P
E240	Name without suffixes 'Starts With' and substring in common	The entity names are a 'Starts With' match, and there is a common substring at least 8 characters in length, after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. The listed name is not an acronym alias of a longer primary entity name.	ACCURATE SECTION BENDERS LTD A C C U R A T E

Table 19: Ranking matches within Name rules

E250	Name without suffixes contains, residual token in common and significant overlap	The entity names are a 'Contains' match and the Word Match Percentage is 50 or more, after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. There is at least one significant word in common (not a common business word, a word in the English dictionary or a very common word in Watchlist name data).	NON EMERGENCY TRANSPORT INC						
			A C T I O N N O N E M E R G E N C Y T R A N S P O R T A T I O N						

Table 19: Ranking matches within Name rules

<p>E260</p>	<p>Name without common tokens exact, and multiple residual tokens in common</p>	<p>The entity names match exactly, with at least two words matching, after number cardinal and ordinal standardization, and after common company prefixes, suffixes, and other words, and all English dictionary and common Watchlist name words are removed.</p>	<p>LIFE CARE CENTER PUNTA GORDA</p> <p>P O R T O F P U N T A G O R D A</p>
<p>E270</p>	<p>Original script name has additional names</p>	<p>All words in the shorter original script name match in the longer original script name (in order), and there are at least two matching words.</p>	<p>Въоръжена ислямска група</p> <p>В ъ o р ъ ж e н a г р у п a</p>

Table 19: Ranking matches within Name rules

<p>E280</p>	<p>Name without suffixes contains, multiple names in common and significant overlap</p>	<p>The entity names are a 'Contains' match and the Word Match Percentage is 50 or more, after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. There is at least two significant words (not common business words) that match with a Character Match Percentage of 80 or more.</p>	<p>CITY TRANS LTD</p> <p>C A R I T A L C I T Y T R A N S S E R V I N G</p>
<p>E290 Group Code</p>	<p>Name without business words</p>	<p>The entity names match with a Character Match Percentage of between 80 and 99 after number cardinal and ordinal standardization, and after</p>	<p>IBERIA AIRLINES</p> <p>I B E R A I R L I N E S</p>

Table 19: Ranking matches within Name rules

	similar and full name sounds like	common company prefixes, suffixes and other words are removed. The names share the same metaphone key after number cardinal and ordinal standardization.																										
E300	Name without business words similar with typos, sounds like and significant overlap	All words in the shorter entity name match with a Character Match Percentage of 80 or more in the longer entity name (in order) after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The names match with a Word Match Percentage of 50 or more when common business words are not stripped. There are at least two significant words (not common business words) that match with a Character Match Percentage of 80 or more. The first word of each name has the same 4character Metaphone key. The list name is not an acronym alias of a longer primary entity name.	<table border="1"> <tr> <td>MED CLINIC LTD</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MED</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>AMERICAN</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CLINICS</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>INC</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	MED CLINIC LTD					MED					AMERICAN					CLINICS					INC				
MED CLINIC LTD																												
MED																												
AMERICAN																												
CLINICS																												
INC																												

Table 19: Ranking matches within Name rules

<p>E310</p>	<p>Name has additional words, sounds like and residual token in common</p>	<p>All words in the shorter entity name exist in the longer entity name (in order) after number cardinal and ordinal standardization. There is at least one significant word (not a common business word, an English dictionary word or a word or a common Watchlist name word) in common between the two names. The list name is not an acronym alias of a longer primary entity name.</p>	<table border="1"> <tr> <td colspan="5">DJ CASE AND ASSOCIATES INC</td> </tr> <tr> <td>D</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>J</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>N</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>D</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>S</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>S</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>O</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>I</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>T</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>E</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>S</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>I</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>N</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	DJ CASE AND ASSOCIATES INC					D					J					A					N					D					A					S					S					O					C					I					A					T					E					S					I					N					C				
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Table 19: Ranking matches within Name rules

<p>E320</p>	<p>Name has additional words with typos, sounds like and residual token in common</p>	<p>All words in the shorter entity name match with a Character Match Percentage of 80 or more in the longer entity name (in order) after number cardinal and ordinal standardization. There is at least one significant word (not a common business word, an English dictionary word or a word or a common Watchlist name word) that matches with a Character Match Percentage of 80 or more. The list name is not an acronym alias of a longer primary entity name.</p>	<table border="1"> <tr> <td colspan="5">GARLOCK</td> </tr> <tr> <td>G</td> <td>A</td> <td>R</td> <td>L</td> <td>O</td> </tr> <tr> <td>L</td> <td>O</td> <td>C</td> <td>K</td> <td></td> </tr> <tr> <td>H</td> <td>E</td> <td>L</td> <td>L</td> <td>O</td> </tr> <tr> <td>C</td> <td>O</td> <td>P</td> <td>E</td> <td>R</td> </tr> <tr> <td>S</td> <td>I</td> <td>N</td> <td>C</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	GARLOCK					G	A	R	L	O	L	O	C	K		H	E	L	L	O	C	O	P	E	R	S	I	N	C											
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Table 19: Ranking matches within Name rules

E330	Name has additional words, sounds like and substring in common	All words in the shorter entity name exist in the longer entity name (in order) after number cardinal and ordinal standardization. There is a common substring of at least 8 characters in length between the two names after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The list name is not an acronym alias of a longer primary entity name.	NATIONWIDE SECRETARIAL SERVICES LTD N A T I O N W I D E S E R V I C E S
E340 Group Code	Name without business words, similar, sounds like and multiple names in common	All words in the shorter entity name match in the longer entity name (in order) after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. There are at least two	CENTRAL OKLAHOMA FAMILY MEDICAL CENTER
		significant words (not common business words) that match. The first word of each name has the same 4-character Metaphone key. The list name is not an acronym alias of a longer primary entity name.	CENTRAL MEDICAL INC

Table 19: Ranking matches within Name rules

E350	Name without business words, similar with typos, sounds like and multiple names in common	All words in the shorter entity name match with a Character Match Percentage of 80 or more in the longer entity name (in order) after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. There are at least two significant words (not common business words) that match with a Character Match Percentage of 80 or more. The first word of each name has the same 4-character Metaphone key. The list name is not an acronym alias of a longer primary entity name.	BLACK CHAIR LTD B L A C K W O R L D C O L L E G E O F H A I R D E S I G N
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Table 19: Ranking matches within Name rules

E360	Name without business words has typos and sounds like	The entity names match with a Character Match Percentage of between 80 and 99 after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The first word of each name has the same 4-character Metaphone key.	BOURNE CHIROPRACTIC LTD
			B A R N O C H I R O P R A C T I C

Table 19: Ranking matches within Name rules

<p>E370</p>	<p>Name without suffixes contains with typos and multiple names in common</p>	<p>The entity names are a "Contains" match where each word matches with a Character Match Percentage of 80 or more after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. There are at least two significant words (not common business words) that match.</p>	<table border="1"> <tr> <td colspan="5">NEW ORLEANS</td> </tr> <tr> <td>M</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>E</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>D</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>I</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>B</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>O</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>T</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>M</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>E</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>T</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>R</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>O</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>N</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>E</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>W</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>O</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>R</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>L</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>E</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>N</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>S</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	NEW ORLEANS					M					E					D					I					C					A					B					O					T					M					E					T					R					O					N					E					W					O					R					L					E					A					N					S				
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Table 19: Ranking matches within Name rules

E380	Name without suffixes contains, similar, and multiple words in common	The entity names are a 'Contains' match and the Word Edit Distance is no more than one between the names (where each word matches with a Character Match Percentage of 80 or more), after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. There are at least two significant words (not common business words) that match with a Character Match Percentage of 80 or more.	GROSVENOR NURSING SERVICES N U R S I N G S E R V I C E S I N C O
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Table 19: Ranking matches within Name rules

<p>E390</p>	<p>Original script name has additional names with typos</p>	<p>All words in the shorter original script name match in the longer original script name (in order) with a Character Match Percentage of 80 or more, and there are at least two matching words.</p>	<p>Арабски революционни бригади</p> <p>А р а б с к и р е в о л ю ц и о н и</p>
<p>E400</p>	<p>Name has additional words and sounds like</p>	<p>All words in the shorter entity name exist in the longer entity name (in order) after number cardinal and ordinal standardization.</p>	<p>ATRIUM INCORPORATORS WORLDWIDE LTD</p> <p>A T R I U M</p>

Table 19: Ranking matches within Name rules

E410	Name has additional words with typos and sounds like	All words in the shorter entity name match in the longer entity name (in order) with a Character Match Percentage of 80 or more after number cardinal and ordinal standardization. The first word of each name has the same 4-character Metaphone key.	BRILLIANT GENERAL BUILDING CONTRACTOR LTD B R I L L I A N T G E N E R A L B U I L D I N G C O N T R A C T O R L T D
E420	Name without business words loose match and full name sounds like	The entity names match with a Character Match Percentage of between 60 and 79 after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The names have the same Metaphone key.	BRC B R C

1.1.1 Loose Entity Matching Rules

Table 20 lists the Field Description for Loose Entity Matching Rules.

Table 20: Loose Entity Matching Rules

Group Code	Name Matching Rule	Summary of Rule Logic	Example Matching Data
E430	Name without business words contains, sounds like, and residual token in common	The entity names are a 'Contains' match after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. There is at least one significant word (not a common business word, and an English dictionary word or a very common word in Watchlist name data) in common between the two names. The first word of each name has the same 4-character Metaphone key. The list name is not an acronym alias of a longer primary entity name.	HENDERSON EQUITY PARTNERS GP LTD HENDERSON MANAGEMENT GROUP INC

Table 20: Loose Entity Matching Rules

E440	Name without business words contains, sounds like, and substring in common	The entity names are a 'Contains' match and there is a common substring at least 8 characters in length after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The first word of each name has the same 4-character Metaphone key. The list name is not an acronym alias of a longer primary entity name.	HAMILTON NEWS
			HAMILTON INVESTMENT CORP
E450	Name without suffixes 'Starts With'	The entity names are a 'Starts With' match after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. The list name is not an acronym alias of a longer primary entity name.	JACOB
			JACOBSON MANAGEMENT CO
E460	Name without business words has additional words and sounds like	All words in the shorter entity name exist in the longer entity name (in order) after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The first word of each name has the same 4-character Metaphone key. The list name is not an acronym alias of a longer primary entity name.	IDEAL SOLUTION ESTATES MANAGEMENT LTD
			IDEAL ENTERPRISES INC
E470	Name without business words has additional words with typos and sounds like	All words in the shorter entity name match with a Character Match Percentage of 80 or more in the longer entity name (in order) after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The first word of each name has the same 4-character Metaphone key. The list name is not an acronym alias of a longer primary entity name.	AVANT GARD LTD
			AVANTI ENTERPRISES INC
E480	Name without business words contains and sounds like	The entity names are a 'Contains' match after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The first word of each name has the same 4-character Metaphone key. The list name is not an acronym alias of a longer primary entity name.	MOREX TRADING LTD
			MOREXPRESS SA DE CV
E490	Name without suffixes 'Starts With' and allows acronyms	The entity names are a 'Starts With' match after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed.	INTERTRADE CLASSIC LTD
			INTER

Table 20: Loose Entity Matching Rules

E500	Name without suffixes contains, significant overlap and multiple words in common	The entity names are a 'Contains' match, there are at least two words that match with a Character Match Percentage of 80 or more, and the two entity names match with a Word Match Percentage of 50 or more after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed.	EG ANDG TECHNICAL SERVICES INC
			TECHNICAL SERVICES
E510	Name contains with typos and multiple words in common	The entity names are a "Contains" match where each word matches with a Character Match Percentage of 80 or more after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. There are at least two words (not prefixes or suffixes) that match.	FIRSA INTERNATIONAL LTD
			FIRST INTERNATIONAL COMMERCE BANK LTD

2.1.2 Ranking matches within Entity Name rules

For each entity or vessel name matching rule, matches are ranked according to how much and how strongly additional data matches between the customer record and the watch list:

Table 21 lists the Field Description for Ranking matches within Entity Name rules.

Table 21: Ranking matches within Entity Name rules

Match Rule	Summary of Matching Logic	Example Matching Data	
[Entity name rule], city, country	At least one city matches. At least one country matches.	City	Coun- try
		New York London	GB
		London	GB US
[Entity name rule], city	At least one city matches.	City	
		Paris London	
		Paris	

Table 21: Ranking matches within Entity Name rules

[Entity name rule], country	At least one country matches.	<table border="1"> <tr><th colspan="3">Country</th></tr> <tr><td colspan="3">US</td></tr> <tr><td colspan="3">PK IN US</td></tr> </table>			Country			US			PK IN US		
Country													
US													
PK IN US													
[Entity name rule] only	The entity name rule returns a match. No data in other fields.	<table border="1"> <tr><th>Name</th><th>Country</th><th>City</th></tr> <tr><td>A C M</td><td>-</td><td>-</td></tr> <tr><td>A C M</td><td>-</td><td>-</td></tr> </table>			Name	Country	City	A C M	-	-	A C M	-	-
Name	Country	City											
A C M	-	-											
A C M	-	-											
[Entity name rule] (conflict)	The entity name rule returns a match. Data in other fields do not match.	<table border="1"> <tr><th>Name</th><th>Country</th><th>City</th></tr> <tr><td>A C M</td><td>UK</td><td>London</td></tr> <tr><td>A C M</td><td>FR</td><td>Paris</td></tr> </table>			Name	Country	City	A C M	UK	London	A C M	FR	Paris
Name	Country	City											
A C M	UK	London											
A C M	FR	Paris											
[Vessel name rule] country	At least one country matches.	<table border="1"> <tr><th colspan="3">Country</th></tr> <tr><td colspan="3">US</td></tr> <tr><td colspan="3">PK IN US</td></tr> </table>			Country			US			PK IN US		
Country													
US													
PK IN US													
[Vessel name rule] only	Vessel name rule returns a match. No data in other fields.	<table border="1"> <tr><th>Name</th><th>Country</th><th>City</th></tr> <tr><td>Dynast y</td><td>-</td><td>-</td></tr> <tr><td>Dynast y</td><td>-</td><td>-</td></tr> </table>			Name	Country	City	Dynast y	-	-	Dynast y	-	-
Name	Country	City											
Dynast y	-	-											
Dynast y	-	-											

Table 21: Ranking matches within Entity Name rules

[Vessel name rule] (conflict)	Vessel name rule returns a match. Data in other fields do not match.		Name	Country	City
			Dynasty	UK	London
			Dynasty	FR	Paris

3 Entity Matching

This section details the default configuration when matching entities to Sanctions, PEP and EDD lists. In general, and by default, the matching strategy for entities in Oracle Financial Services Customer Screening will raise a possible match if there is an exact match or a fuzzy name match to a normal (non-acronym) entity name, or if there is an exact match to an acronym entity name.

The fuzzy entity name matching algorithms include the following techniques (amongst others):

- Standardizing entity names (for example, different forms of company name suffixes are standardized to a common form)
- Ignoring insignificant name tokens
- Typo tolerance
- Allowance for missing name tokens
- Allowance for different tokenization of the name

3.1 Identifier Preparation

The following identifiers are prepared for use in the entity matching process:

Table 22 lists the Field Description for Identifier Preparation.

Table 22: Identifier Preparation

Identifier	Summary of preparation logic
Original Entity Name	The original entity name, after Name Normalization. See section 3.1.1 "Name Normalization" below.
Standardized Entity Name	A standardized version of the entity name, with common entity name suffixes standardized. The standardization process may be amended by changing the Reference Data used to standardize tokens (such as LTD) and phrases (such as FIN SERVS).
Original Script Name	A whitespace normalized version of the original script name.
City	A pipe-separated list of cities.
CountryCodes	A space-separated list of standard 2-character country codes.

3.1.1 Name Normalization

Entity names are normalized using the following logic:

- Standardization of accented characters.
- Removal of apostrophes.

- Replacement of all other characters apart from alpha (A-Z or a-z), numeric (0-9) or ampersand (&) characters with spaces.

NOTE If matching data in the original language against original script names in watch lists, the appropriate character ranges should be removed from the Name Noise Characters Reference Data so that they are not replaced. In addition, if transliterating data before matching, transliteration must be done before the name normalization.

- Normalization of whitespace.
- Conversion to upper case.

3.2 Clustering

Oracle Financial Services Customer Screening provides three different clustering strategies for matching entities: Entity Name Tokens, Name Metaphone, and Name Trimmed. Any of the clusters may be activated or deactivated, as required, and different cluster limits can be configured.

3.2.1 Entity Name Tokens (dnClusterNameTokens)

This cluster uses the standardized entity name to generate cluster keys. The default logic is as follows:

- Remove initials.
- Remove common name tokens, such as Limited, or Corporation.
- Normalize whitespace.
- Convert space characters to pipe characters.

Examples

Table 23 lists the Field Description for Entity Name Tokens.

Table 23: Entity Name Tokens

dnEntityName	Name with initials and common name tokens stripped	dnClusterNameTokens
ANGLO CARIBBEAN CO LTD	ANGLO CARIBBEAN	ANGLO CARIBBEAN
GUAMATUR S A	GUAMATUR	GUAMATUR

3.2.2 Name Metaphone (dnClusterLongName)

This cluster uses the standardized entity name to generate cluster keys. The default logic is as follows:

- Remove initials.
- Remove common name tokens, such as Limited, or Corporation.
- Normalize whitespace.
- Remove common business words, such as Company, or Association.
- Transliterate any non-Latin characters into Latin.

- Apply the Metaphone transformation (the standard double-Metaphone algorithm) outputting a key with a length of up to eight characters.

Examples

Table 24 lists the Field Description for Name Metaphone.

Table 24: Name Metaphone

dnEntityName	Name with initials, common name tokens and common business words stripped	dnCluster-LongName
HAVANA INTERNATIONAL BANK LTD	HAVANA BANK	HFNPNK
CIMEX S A	CIMEX	SMKS
LA EMPRESA CUBANA DE FLETES	EMPRESA CUBANA FLETES	AMPRSKPN

3.2.3 Name Trimmed (dnClusterShortName)

This cluster uses the standardized entity name to generate cluster keys. The default logic is as follows:

- Remove all whitespace.
- Left-trim the value to a maximum of 4 characters.

Examples

Table 25 lists the Field Description for Name Trimmed.

Table 25: Name Trimmed

dnEntityName	dnClusterShortName
HAVANA INTERNATIONAL BANK LTD	HAVA
CIMEX S A	CIME
LA EMPRESA CUBANA DE FLETES	LAEM

3.2.4 Registration Country Prohibition (Registration Country Code)

This cluster uses the space-delimited list of registration country codes to generate cluster keys by generating an array of the component country codes.

3.2.5 Operating Country Prohibition (Operating Country Code)

This cluster uses the space-delimited list of operating country codes to generate cluster keys by generating an array of the component country codes.

3.2.6 Start/End Name Tokens (dnClusterStartEndNameTokens)

This clustering method is designed as a looser version of the Entity Name Tokens cluster and allows for variation in entity names by creating clusters for the first five and last five characters of each name token.

The default logic is as follows:

- Remove initials.
- Remove common name tokens, such as Limited, or Corporation.
- Normalize whitespace.
- For each token that is longer than five characters, replace with two new tokens that are:
 - The first five characters of the token.
 - The last five characters of the token.

Examples

Table 26 lists the Field Description for Start or End Name Tokens.

Table 26: Start or End Name Tokens

dnEntityName	Name with initials and common name tokens stripped	dnClusterStartEndNameTokens
HAVANA INTERNATIONAL BANK LTD	HAVANA INTERNATIONAL BANK	HAVAN AVANA INTER IONAL BANK
CIMEX S A	CIMEX	CIMEX
LA EMPRESA CUBANA DE FLETES	LA EMPRESA CUBANA FLETES	LA EMPRESA PRESA CUBAN UBANA FLETE LETES

3.2.7 Original Script Name (dnClusterOriginalScript)

The Original Script Name cluster provides a clustering method for matching names represented in non-Latin writing systems. The cluster builder generates a key for each token in the name.

NOTE

A single cluster value of "Myanmar" is generated for original script names written in the Burmese alphabet irrespective of the name. This is needed because token splitting is not possible for the Myanmar writing system as it does not use a space character between words. As a result, all original script name in Burmese will be compared during matching. This should not cause performance issues during screening provided there are a low number of customer records using this writing system.

The default logic of the cluster builder is as follows:

- Split the original script name into several name tokens, using a space character as the delimiter.
- Trim each name token to a maximum of 5 characters.
- Concatenate all of the trimmed token values with a pipe delimiter
- Deduplicate the list of keys.

Examples

Table 27 lists the Field Description for Original Script Name.

Table 27: Original Script Name

dnOriginalScriptName	dnClusterOriginalScript
Черен септември	Черен септе
北京航空航天大学	北 京 航 空 航 天 大 学
မြန်မာ	Myanmar

3.3 Matching

Entity matching is centered on entity names. Other items of data, such as associated countries and cities, are used to strengthen a possible match.

3.3.1 Match Rules

The match rules in Oracle Financial Services Customer Screening are organized by the level of entity name match, with the strongest name matching rules at the top of the decision table.

Optional elimination rules exist that allow lower risk matches to be suppressed.

The following match rules are involved in entity screening:

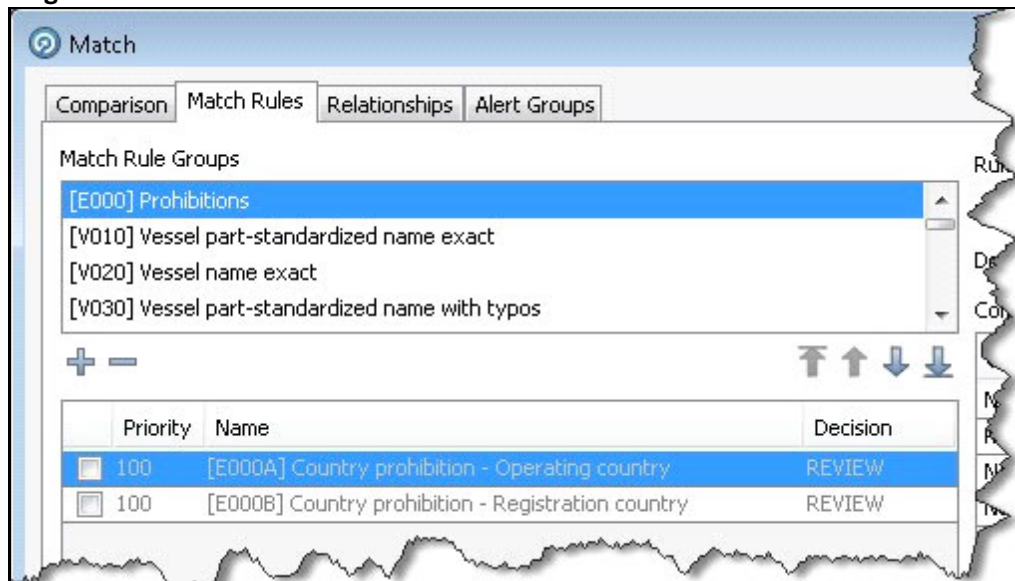
- The elimination rules, which are used in the rule templates to suppress the generation of lower risk matches - for example, low quality matches against list records with a low-risk score. The elimination rules may be moved up and down in order to change where they apply.
- The entity name matching rules. Entity name matching rules are organized by the level of entity name match, with the strongest matching rules placed at the top of the decision table.

NOTE

This means that the match rules are not ordered by strength across all identifiers. For example, a weaker match rule that is strengthened by matches on City and Country is likely to be a stronger overall match than a strong match rule with strongly contradictory data in the other fields.





- The loose entity matching rules. These are also based around entity name matching, but identify looser matches and are not enabled by default. These rules are likely to result in a large number of false-positive matches and are most likely to be of use when screening against sanctions lists, where it is important that no true matches are missed.

For the sake of clarity, match rules are divided into groups, as shown below:

Figure 2: Match rules

As each group is selected, the match rules it contains are displayed in the window below.

The priority of the groups can be changed using the arrows below the Match Rules Group list. When a group is highlighted, you can:

- Click  to move the group up one place on the list.
- Click  to move the group down one place on the list.
- Click  to move the group to the top of the list.
- Click  to move the group to the bottom of the list.

The remainder of this section describes the entity matching rules that are present in Oracle Financial Services Customer Screening in greater detail.

3.3.2 Prohibition Rules

The Prohibition rules check for country information in an entity's record against the list of prohibited countries and nationalities maintained in List Management.

Table 28 lists the Field Description for Prohibition Rules.

Table 28: Prohibition Rules

Group Code	Matching Rule	Summary of Rule Logic
E000A	Country prohibition - Operating country	The country or countries of operation given match at least one prohibited country.
E000B	Country prohibition - Registration country	The country or countries of registration given match at least one prohibited country.

3.3.3 Elimination Rules

Table 29 lists the Field Description for Elimination Rules.

Table 29: Elimination Rules

Elimination Rule	Summary of Rule Logic	Enabled by default?
ELIMINATE WHERE NO COUNTRY SHARED AND ALL SAFE	This rule will eliminate pairs of records if there are no countries in common in the Country fields, AND if all countries listed are on the Safe list. The Safe list is maintained in the Match - Entity Safe Countries ISO Codes Reference Data.	Yes
ELIMINATE WHERE CUSTOMER RISK SCORE BELOW THRESHOLD	This rule will eliminate pairs of records if the Customer Risk Score is below a threshold specified in the corresponding screening process.	No
ELIMINATE WHERE LIST RISK SCORE BELOW THRESHOLD	This rule will eliminate pairs of records if the List Risk Score is below a threshold specified in the corresponding screening process.	No
ELIMINATE WHERE LIST PEP RISK SCORE BELOW THRESHOLD	This rule will eliminate pairs of records if the List PEP Risk Score is below a threshold specified in the corresponding screening process	Yes

NOTE No elimination rules are enabled by default in Sanctions screening.

3.3.4 Entity Matching Rules

All entity matching rules use a standardized form of the entity name. The strongest rules use the 'part-standardized name', meaning the entity names match after only simple global standardizations (such as considering 'AND', 'and', '&' as the same) are applied. Other rules apply additional rules for standardization as noted in the table below.

NOTE Wherever the term 'word' is used below, this means that there is a space-delimited token in the prepared names.

Table 30 lists the Field Description for Entity Matching Rules.

Table 30: Entity Matching Rules.

Group Code	Name Matching Rule	Summary of Rule Logic	Example Matching Data
V010	Vessel partstandardized name exact	The part-standardized entity name matches the name of a listed vessel exactly.	DYNASTY DYNASTY

Table 30: Entity Matching Rules.

V020	Vessel name exact	The entity name matches the name of a listed vessel after number cardinal and ordinal standardization.	4TH OCEAN
			FOURTH OCEAN
V030	Vessel partstandardized name with typos	The part-standardized entity name matches the name of a listed vessel with a Character Match Percentage of 80-99%.	RAHIM
			RAHIM 3
V040	Vessel name with typos	The entity names match with a Character Match Percentage of 80-99% after number cardinal and ordinal standardization.	RAHUM 3
			TRAHIM THREE
E010	Part-standardized name exact	The part-standardized entity name matches a listed entity name exactly.	HUMAN APPEAL INTERNATIONAL
			HUMAN APPEAL INTERNATIONAL
E020	Name exact	The entity names match exactly after number cardinal and ordinal standardization.	NOVEMBER 17
			NOVEMBER SEVENTEEN
E030	Original script name exact	The original script names match exactly.	НИАЭП ОАО
			НИАЭП ОАО
E040	Name without suffixes exact	The entity names match exactly after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed.	CAPITAL DIRECT LTD
			CAPITAL DIRECT AG
E050	Name without business words similar and sounds like	The entity names match with a Word Match Percentage of 80% after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The first word of each name has the same 4-character Metaphone key.	PARAGON UK
			PARAGON INVESTMENT CORPORATION
E060	Name without business words exact	The entity names match exactly after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed.	LIFE HEALTHCARE GROUP HOLDINGS LTD
			LIFE HEALTH CARE INC

Table 30: Entity Matching Rules.

E070	Name without business words has all words out-oforder	All remaining words in each entity name match exactly, but in any order, after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed.	EDUCATION FOR HEALTH
			HEALTH EDUCATION SERVICES
E080	Name without suffixes 'Starts With' and multiple names in common	The entity names are a 'Starts With' match after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. There are at least two significant words (not common business words) in common between the two names. The listed name is not an acronym alias of a longer primary entity name.	BAE SYSTEMS (LANCASTER HOUSE) LIMITED
			BAE SYSTEMS PLC
E090	Name without business words has all words with typos	All remaining words in each entity name match with a Character Match Percentage of 80 or more, after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed.	GERBERA ASSOCIATES LTD
			BERBERA
E100	Original script name in any order	All words in the Original Script Names match exactly, in any order.	ΟΑΟ ΗΙΑΕΠ
			ΗΙΑΕΠ ΟΑΟ
E110	Original script name with typos	The Original Script Names match with a Character Match Percentage of 80% or more.	Επαναστατική Αριστερά
			Επαναστατική Αριστερά

Table 30: Entity Matching Rules.

E120	Name without business words with typos, and sounds like	The entity names match with a Character Match Percentage of 80 or more after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The first word of each name has the same 4-character Metaphone key and the first three letters of each name are the same.	GOLDSTREAM PROPERTIES LTD
			GOLDSTEIN PROPERTIES INC
E130	Name without suffixes contains, similar and multiple names in common	The entity names are a 'Contains' match and the Word Edit Distance is no more than one between the names (where each word matches with a Character Match Percentage of 80 or more), after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. There are at least two significant words (not common business words) in common between the two names.	HAMPSHIRE HERITAGE DEVELOPMENTS LTD
			HERITAGE DEVELOPMENT CORPORATION

Table 30: Entity Matching Rules.

E140	Name has additional words, sounds like and multiple names in common	All words in the shorter entity name exist in the longer entity name (in order) after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. There are at least two significant words (not common business words) in common between the two names. The list name is not an acronym alias of a longer primary entity name.	MOSCOW CITY CENTER PLC
			MOSCOW CENTER
E150	Name without business words contains, sounds like and multiple names in common	The entity name is a 'Contains' match with a listed entity name, after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. There are at least two significant words (not common business words) in common between the two names. The first word of each name has the same 4-character Metaphone key.	HI-TECH RECRUITMENT LTD
			HI TECH GROUP
E160	Original script name in any order with typos	All words in the original script name match with a Character Match Percentage of 80 or more, in any order.	Μαύρος Σεπτέμβρης
			Σεπτέμβρης Μαύρος

Table 30: Entity Matching Rules.

E170	Name without business words has most words out-of-order Name Matching Rule	The entity names match (in any order) with a Word Match Percentage of between 75 and 99, after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The list name is not an acronym alias of a longer primary entity name. Summary of Rule Logic	BACK TO HEALTH CLINICS LIMITED
			BACK TO HEALTH CHIROPRACTIC
			Example Matching Data
E180	Name without business words, similar, sounds like, with multiple names and a residual token in common	All words in the shorter entity name exist in the longer entity name (in order) after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. There are at least two significant words (not common business words) in common between the two names, and at least one of these is not a word in the English dictionary or a very common word in Watchlist name data. The list name is not an acronym alias of a longer primary entity name.	CHARLES ASH UK LTD
			CHARLES F ASH CONSTRUCTION CO INC

Table 30: Entity Matching Rules.

E190	Name without business words, similar with typos, sounds like, with multiple names and residual token in common.	All words in the shorter entity name match with a Character Match Percentage of 80 or more in the longer entity name (in order) after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. There are at least two significant words (not common business words) that match with a Character Match Percentage of 80 or more, and at least one of these is not a word in the English dictionary or a very common word in Watchlist name data. The list name is not an acronym alias of a longer primary entity name. The group name differs from the rule name.	CLARKS HOME BAKERY LTD
			CLARK HOMES INC

Table 30: Entity Matching Rules.

E200	Name without business words, similar, sounds like, and residual token in common	All words in the shorter entity name match in the longer entity name (in order) after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The names match with a Word Match Percentage of 50 or more when common business words are not stripped. There are at least two significant words (not common business words) that match. The first word of each name has the same 4-character Metaphone key. The list name is not an acronym alias of a longer primary entity name.	<p>AMERICAN MILITARY SUPPLY</p> <hr/> <p>AMERICAN SUPPLY CO</p>
E210	Name has additional words tolerant, sounds like and multiple names in common	All words in the shorter entity name match in the longer entity name (in order) with a Character Match Percentage of 80 or more after number cardinal and ordinal standardization. There are at least two significant words (not common business words) in common between the two names. The list name is not an acronym alias of a longer primary entity name.	<p>GENERAL ATOMICS</p> <hr/> <p>GENERAL BUREAU OF ATOMIC ENERGY GBAE</p>

Table 30: Entity Matching Rules.

E220	Name without suffixes contains, similar and residual token in common	The entity names are a 'Contains' match and the Word Edit Distance is no more than one between the names (where each word matches with a Character Match Percentage of 80 or more), after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. There is at least one significant word in common (not a common business word, a word in the English dictionary or a very common word in Watchlist name data).	ACCLAIM ACM LTD ACM
E230	Name without suffixes 'Starts With' and residual token in common	The entity names are a 'Starts With' match after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. There is at least one significant word in common (not a common business word, a word in the English dictionary or a very common word in Watchlist name data). The listed name is not an acronym alias of a longer primary entity name.	ENRON METALS BROKERS LTD ENRON CORP

Table 30: Entity Matching Rules.

E240	Name without suffixes 'Starts With' and substring in common	The entity names are a 'Starts With' match, and there is a common substring at least 8 characters in length, after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. The listed name is not an acronym alias of a longer primary entity name.	ACCURATE SECTION BENDERS LTD
			ACCURATE
E250	Name without suffixes contains, residual token in common and significant overlap	The entity names are a 'Contains' match and the Word Match Percentage is 50 or more, after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. There is at least one significant word in common (not a common business word, a word in the English dictionary or a very common word in Watchlist name data).	NON EMERGENCY TRANSPORT INC
			ACTION NON EMERGENCY TRANSPORTATION

Table 30: Entity Matching Rules.

E260	Name without common tokens exact, and multiple residual tokens in common	The entity names match exactly, with at least two words matching, after number cardinal and ordinal standardization, and after common company prefixes, suffixes, and other words, and all English dictionary and common Watchlist name words are removed.	LIFE CARE CENTER PUNTA GORDA
			PORT OF PUNTA GORDA
E270	Original script name has additional names	All words in the shorter original script name match in the longer original script name (in order), and there are at least two matching words.	Въоръжена ислямска група
			Въоръжена група
E280	Name without suffixes contains, multiple names in common and significant overlap	The entity names are a 'Contains' match and the Word Match Percentage is 50 or more, after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. There is at least two significant words (not common business words) that match with a Character Match Percentage of 80 or more.	CITY TRANS LTD
			CAPITAL CITY TRANS SERV INC

Table 30: Entity Matching Rules.

E290 Group Code	Name without business words similar and full name sounds like	The entity names match with a Character Match Percentage of between 80 and 99 after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The names share the same metaphone key after number cardinal and ordinal standardization.	IBERIA AIRLINES
			IBERAIR LINES

Table 30: Entity Matching Rules.

E300	Name without business words similar with typos, sounds like and significant overlap	All words in the shorter entity name match with a Character Match Percentage of 80 or more in the longer entity name (in order) after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The names match with a Word Match Percentage of 50 or more when common business words are not stripped. There are at least two significant words (not common business words) that match with a Character Match Percentage of 80 or more. The first word of each name has the same 4character Metaphone key. The list name is not an acronym alias of a longer primary entity name.	MED CLINIC LTD
			MED AMERICA CLINICS INC

Table 30: Entity Matching Rules.

E310	Name has additional words, sounds like and residual token in common	All words in the shorter entity name exist in the longer entity name (in order) after number cardinal and ordinal standardization. There is at least one significant word (not a common business word, an English dictionary word or a word or a common Watchlist name word) in common between the two names. The list name is not an acronym alias of a longer primary entity name.	<p>DJ CASE AND ASSOCIATES INC</p> <hr/> <p>DJ AND ASSOCIATES INC</p>
E320	Name has additional words with typos, sounds like and residual token in common	All words in the shorter entity name match with a Character Match Percentage of 80 or more in the longer entity name (in order) after number cardinal and ordinal standardization. There is at least one significant word (not a common business word, an English dictionary word or a word or a common Watchlist name word) that matches with a Character Match Percentage of 80 or more. The list name is not an acronym alias of a longer primary entity name.	<p>GARLOCK</p> <hr/> <p>GARLICK HELICOPTERS INC</p>

Table 30: Entity Matching Rules.

E330	Name has additional words, sounds like and substring in common	All words in the shorter entity name exist in the longer entity name (in order) after number cardinal and ordinal standardization. There is a common substring of at least 8 characters in length between the two names after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The list name is not an acronym alias of a longer primary entity name.	NATIONWIDE SECRETARIAL SERVICES LTD NATIONWIDE SERVICES
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Table 30: Entity Matching Rules.

E340	Name without business words, similar, sounds like and multiple names in common	All words in the shorter entity name match in the longer entity name (in order) after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. There are at least two significant words (not common business words) that match. The first word of each name has the same 4-character Metaphone key. The list name is not an acronym alias of a longer primary entity name.	CENTRAL OKLAHOMA FAMILY MEDICAL CENTER
			CENTRAL MEDICAL INC

Table 30: Entity Matching Rules.

E350	Name without business words, similar with typos, sounds like and multiple names in common	All words in the shorter entity name match with a Character Match Percentage of 80 or more in the longer entity name (in order) after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. There are at least two significant words (not common business words) that match with a Character Match Percentage of 80 or more. The first word of each name has the same 4-character Metaphone key. The list name is not an acronym alias of a longer primary entity name.	<p>BLACK CHAIR LTD</p> <hr/> <p>BLACK WORLD COLLEGE OF HAIR DESIGN</p>
E360	Name without business words has typos and sounds like	The entity names match with a Character Match Percentage of between 80 and 99 after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The first word of each name has the same 4-character Metaphone key.	<p>BOURNE CHIROPRACTIC LTD</p> <hr/> <p>BARNO CHIROPRACTIC</p>

Table 30: Entity Matching Rules.

E370	Name without suffixes contains with typos and multiple names in common	The entity names are a "Contains" match where each word matches with a Character Match Percentage of 80 or more after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. There are at least two significant words (not common business words) that match.	NEW ORLEANS MEDICAB OF METRO NEW ORLEANS
E380	Name without suffixes contains, similar, and multiple words in common	The entity names are a 'Contains' match and the Word Edit Distance is no more than one between the names (where each word matches with a Character Match Percentage of 80 or more), after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. There are at least two significant words (not common business words) that match with a Character Match Percentage of 80 or more.	GROSVENOR NURSING SERVICES NURSING SERVICES INC

Table 30: Entity Matching Rules.

E390	Original script name has additional names with typos	All words in the shorter original script name match in the longer original script name (in order) with a Character Match Percentage of 80 or more, and there are at least two matching words.	Арабски революционни бригади
			Арабски революционни
E400	Name has additional words and sounds like	All words in the shorter entity name exist in the longer entity name (in order) after number cardinal and ordinal standardization.	ATRIUM INCORPORATORS WORLDWIDE LTD
			ATRIUM
E410	Name has additional words with typos and sounds like	All words in the shorter entity name match in the longer entity name (in order) with a Character Match Percentage of 80 or more after number cardinal and ordinal standardization. The first word of each name has the same 4-character Metaphone key.	BRILLIANT GENERAL BUILDING CONTRACTOR LTD
			BRILLIANCE
E420	Name without business words loose match and full name sounds like	The entity names match with a Character Match Percentage of between 60 and 79 after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The names have the same Metaphone key.	BRC
			PRC

3.3.5 Loose Entity Matching Rules

Table 31 lists the Field Description for Loose Entity Matching Rules.

Table 31: Loose Entity Matching Rules

Group Code	Name Matching Rule	Summary of Rule Logic	Example Matching Data
E430	Name without business words contains, sounds like, and residual token in common	The entity names are a 'Contains' match after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. There is at least one significant word (not a common business word, and an English dictionary word or a very common word in Watchlist name data) in common between the two names. The first word of each name has the same 4-character Metaphone key. The list name is not an acronym alias of a longer primary entity name.	HENDERSON EQUITY PARTNERS GP LTD
			HENDERSON MANAGEMENT GROUP INC
E440	Name without business words contains, sounds like, and substring in common	The entity names are a 'Contains' match and there is a common substring at least 8 characters in length after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The first word of each name has the same 4-character Metaphone key. The list name is not an acronym alias of a longer primary entity name.	HAMILTON NEWS
			HAMILTON INVESTMENT CORP
E450	Name without suffixes 'Starts With'	The entity names are a 'Starts With' match after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. The list name is not an acronym alias of a longer primary entity name.	JACOB
			JACOBSON MANAGEMENT CO
E460	Name without business words has additional words and sounds like	All words in the shorter entity name exist in the longer entity name (in order) after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The first word of each name has the same 4-character Metaphone key. The list name is not an acronym alias of a longer primary entity name.	IDEAL SOLUTION ESTATES MANAGEMENT LTD
			IDEAL ENTERPRISES INC

Table 31: Loose Entity Matching Rules

E470	Name without business words has additional words with typos and sounds like	All words in the shorter entity name match with a Character Match Percentage of 80 or more in the longer entity name (in order) after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The first word of each name has the same 4-character Metaphone key. The list name is not an acronym alias of a longer primary entity name.	AVANT GARD LTD
			AVANTI ENTERPRISES INC
E480	Name without business words contains and sounds like	The entity names are a 'Contains' match after number cardinal and ordinal standardization, and after common company prefixes, suffixes and other words are removed. The first word of each name has the same 4-character Metaphone key. The list name is not an acronym alias of a longer primary entity name.	MOREX TRADING LTD
			MOREXPRESS SA DE CV
E490	Name without suffixes 'Starts With' and allows acronyms	The entity names are a 'Starts With' match after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed.	INTERTRADE CLASSIC LTD
			INTER
E500	Name without suffixes contains, significant overlap and multiple words in common	The entity names are a 'Contains' match, there are at least two words that match with a Character Match Percentage of 80 or more, and the two entity names match with a Word Match Percentage of 50 or more after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed.	EG ANDG TECHNICAL SERVICES INC
			TECHNICAL SERVICES
E510	Name contains with typos and multiple words in common	The entity names are a "Contains" match where each word matches with a Character Match Percentage of 80 or more after number cardinal and ordinal standardization, and after common company prefixes and suffixes are removed. There are at least two words (not prefixes or suffixes) that match.	FIRSA INTERNATIONAL LTD
			FIRST INTERNATIONAL COMMERCE BANK LTD

1.1.1 Ranking matches within Entity Name rules

For each entity or vessel name matching rule, matches are ranked according to how much and how strongly additional data matches between the customer record and the watch list:

Table 32 lists the Field Description for Ranking matches within Entity Name rules.

Table 32: Ranking matches within Entity Name rules

Match Rule	Summary of Matching Logic	Example Matching Data									
[Entity name rule], city, country	At least one city matches. At least one country matches.	<table border="1"> <thead> <tr> <th>City</th> <th>Country</th> </tr> </thead> <tbody> <tr> <td>New York London</td> <td>GB</td> </tr> <tr> <td>London</td> <td>GB US</td> </tr> </tbody> </table>	City	Country	New York London	GB	London	GB US			
City	Country										
New York London	GB										
London	GB US										
[Entity name rule], city	At least one city matches.	<table border="1"> <thead> <tr> <th>City</th> </tr> </thead> <tbody> <tr> <td>Paris London</td> </tr> </tbody> </table>	City	Paris London							
City											
Paris London											
		Paris									
[Entity name rule], country	At least one country matches.	<table border="1"> <thead> <tr> <th>Country</th> </tr> </thead> <tbody> <tr> <td>US</td> </tr> <tr> <td>PK IN US</td> </tr> </tbody> </table>	Country	US	PK IN US						
Country											
US											
PK IN US											
[Entity name rule] only	The entity name rule returns a match. No data in other fields.	<table border="1"> <thead> <tr> <th>Name</th> <th>Country</th> <th>City</th> </tr> </thead> <tbody> <tr> <td>ACM</td> <td>-</td> <td>-</td> </tr> <tr> <td>ACM</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Name	Country	City	ACM	-	-	ACM	-	-
Name	Country	City									
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ACM	-	-									
[Entity name rule] (conflict)	The entity name rule returns a match. Data in other fields do not match.	<table border="1"> <thead> <tr> <th>Name</th> <th>Country</th> <th>City</th> </tr> </thead> <tbody> <tr> <td>ACM</td> <td>UK</td> <td>London</td> </tr> <tr> <td>ACM</td> <td>FR</td> <td>Paris</td> </tr> </tbody> </table>	Name	Country	City	ACM	UK	London	ACM	FR	Paris
Name	Country	City									
ACM	UK	London									
ACM	FR	Paris									

Table 32: Ranking matches within Entity Name rules

[Vessel name rule] country	At least one country matches.	<table border="1"> <tr><th colspan="3">Country</th></tr> <tr><td colspan="3">US</td></tr> <tr><td colspan="3">PK IN US</td></tr> </table>			Country			US			PK IN US		
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Name	Country	City											
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Dynasty	-	-											
[Vessel name rule] (conflict)	Vessel name rule returns a match. Data in other fields do not match.	<table border="1"> <tr><th>Name</th><th>Country</th><th>City</th></tr> <tr><td>Dynasty</td><td>UK</td><td>London</td></tr> <tr><td>Dynasty</td><td>FR</td><td>Paris</td></tr> </table>			Name	Country	City	Dynasty	UK	London	Dynasty	FR	Paris
Name	Country	City											
Dynasty	UK	London											
Dynasty	FR	Paris											

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