

# What's New in **SAS<sup>®</sup> Quality Knowledge Base for Contact Information 27**

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**What's New in SAS® Quality Knowledge Base for Contact Information 27**

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# What's New in SAS Quality Knowledge Base for Contact Information 27

The SAS Quality Knowledge Base (QKB) is a collection of files that store data and logic that define data management operations. SAS software products reference the QKB when performing data management operations on your data.

This document explains the changes in SAS Quality Knowledge Base for Contact Information (CI) 27.

- [Overview](#)
- [Locale Support](#)
- [Additional Tokens](#)
- [Deprecations](#)
- [Enhancements](#)
- [Pre-parsed Input](#)
- [Known Problems](#)

See the SAS Quality Knowledge Base for Contact Information 27 online Help for additional information. For information about previous releases, see the SAS Quality Knowledge Base product page at <http://support.sas.com/documentation/onlinedoc/qkb/>.

## Overview

SAS QKB CI 27 includes updates for the following locales and definitions:

- English, Philippines
  - Address parse definitions
  - Name gender analysis definition
  - Tax ID match, parse, and standardization definitions
- English, United States
  - Address parse definitions
- Portuguese, Brazil
  - City match definition
  - City - State/Province - Postal Code match and standardization definitions

- Organization match definition
- Postal Code match definition
- Spanish, Mexico
  - Address parse definitions
  - City - State/Province - Postal Code match, parse, and standardization definitions
  - Organization match and standardization definitions
  - Postal Code match definition
- Spanish, Spain
  - Organization match and standardization definitions

See the [Enhancements](#) section for a list of definitions that have been added, removed, or modified in this release. See the [Deprecations](#) section for a list of definitions that have been deprecated, renamed, or removed in this release.

The file format of libraries in this release differs from the file format of libraries in releases earlier than QKB CI 2010B. Therefore, it is not possible to merge QKB CI 27 into any QKB that was released prior to QKB CI 2010B. It is possible to merge an earlier QKB release into QKB CI 27 after installing the latest into a separate location. See the QKB Merge Tool section in the DataFlux Data Management Studio online Help for details.

## Locale Support

This release includes support for the following locales:

Afrikaans, South Africa	English, South Africa	Korean, South Korea
Arabic, Egypt *	English, United Kingdom	Malay, Malaysia
Chinese, China	English, United States	Norwegian, Norway
Czech, Czech Republic	Finnish, Finland	Polish, Poland
Danish, Denmark	French, Belgium	Portuguese, Brazil
Dutch, Belgium	French, Canada	Portuguese, Portugal
Dutch, Netherlands	French, France	Russian, Russia
English, Australia	German, Germany	Slovak, Slovakia
English, Canada	Greek, Greece	Spanish, Mexico
English, Hong Kong *	Hebrew, Israel	Spanish, Spain
English, India	Hungarian, Hungary	Swedish, Sweden
English, New Zealand	Italian, Italy	Thai, Thailand
English, Philippines *	Japanese, Japan	Turkish, Turkey

\* partial support. See the Definitions by Locale section of the SAS QKB online Help.

## Full Support

The following table lists the definition names and types that are fully supported in SAS QKB CI.

Definition Name	Definition Type
Account Number	Match
Address	Match, Parse, and Standardization
Address (Global)	Parse
ASCII Non-Printable Character Removal	Standardization
Character	Pattern Analysis
Character (Script Identification)	Pattern Analysis
City	Match and Standardization
City - State/Province - Postal Code	Match and Standardization
E-mail	Match, Parse, and Standardization
E-mail (Country Identification)	Identification Analysis
E-mail (Validation)	Identification Analysis
E-mail (with Combinations)	Match
Hyphen/Dash Removal	Standardization
IBAN	Parse
IBAN (Detailed)	Parse
IBAN (Electronic)	Standardization
IBAN (Printed)	Standardization
Name	Match, Parse, and Standardization
Name (Global)	Parse
Non-Alphanumeric Removal	Standardization
Non-Number Removal	Standardization
Number Removal	Standardization
Organization	Match and Standardization
Phone	Match, Parse, and Standardization
Phone (Global)	Parse
Phone Country Code to Country Name	Standardization
Postal Code	Match and Standardization
Punctuation Removal	Standardization
Punctuation Space Replacement	Standardization
Space Removal	Standardization
Surrounding Quote Removal	Standardization
URL	Standardization
Word	Pattern Analysis
Word (Script Identification)	Pattern Analysis

# Additional Tokens

None.

## Deprecations

The following tables list the deprecated definitions that exist in this QKB and their current statuses with the actions that users should take within the existing jobs to use the latest processing. Details about the deprecation status and the changes to each definition are available in the documentation for the definition. The deprecation process is fully described in the Deprecation Policy topic in the SAS QKB online Help.

### English, India

Deprecated/Removed Definition	Definition Type	Status	Action
Name (Matching)	Parse	Removed	Discontinue use

### Portuguese, Brazil

Deprecated/Removed Definition	Definition Type	Status	Action
City	Match	Outdated	Temporary <b>City (v27)</b> match definition contains updated processing
City - State/Province - Postal Code	Match	Outdated	Temporary <b>City - State/Province - Postal Code (v27)</b> match definition contains updated processing
City - State/Province - Postal Code	Standardization	Outdated	Temporary <b>City - State/Province - Postal Code (v27)</b> standardization definition contains updated processing
City - State/Province - Postal Code (v26)	Parse	Removed	Replace with updated <b>City - State/Province - Postal Code</b> parse definition
Name (v24)	Gender Analysis	Removed	Replace with updated <b>Name</b> gender analysis definition
Name (v24)	Match	Removed	Replace with updated <b>Name</b> match definition
Organization	Match	Outdated	Temporary <b>Organization (v27)</b> match definition contains updated processing
Postal Code	Parse	Removed	Discontinue use
State	Match	Removed	Replace with <b>State/Province</b> match definition
State (Full Name)	Standardization	Removed	Replace with <b>State/Province</b>

Deprecated/Removed Definition	Definition Type	Status	Action
			standardization definition
State (Two Letter)	Standardization	Removed	Replace with <b>State/Province (Postal Standard)</b> standardization definition

### Spanish, Mexico

Deprecated/Removed Definition	Definition Type	Status	Action
Address (v24)	Match	Removed	Replace with updated <b>Address</b> match definition
Address (v24)	Standardization	Removed	Replace with updated <b>Address</b> standardization definition
City (v26)	Match	Removed	Replace with updated <b>City</b> match definition
City - State/Province - Postal Code	Match	Outdated	Temporary <b>City - State/Province - Postal Code (v27)</b> match definition contains updated processing
City - State/Province - Postal Code (v26)	Parse	Removed	Replace with updated <b>City - State/Province - Postal Code</b> parse definition
Name (v24)	Match	Removed	Replace with updated <b>Name</b> match definition
Name (v24)	Standardization	Removed	Replace with updated <b>Name</b> standardization definition
Organization	Match	Outdated	Temporary <b>Organization (v27)</b> match definition contains updated processing
Organization (v24)	Parse	Removed	Replace with updated <b>Organization</b> parse definition
Proper (City - State/Province - Postal Code)	Case	Deprecated	Replace with <b>City - State/Province - Postal Code</b> standardization definition
Proper (Organization)	Case	Deprecated	Replace with <b>Organization</b> standardization definition

## Spanish, Spain

Deprecated/Removed Definition	Definition Type	Status	Action
Organization	Match	Outdated	Temporary <b>Organization (v27)</b> match definition contains updated processing
Proper (Organization)	Case	Deprecated	Replace with <b>Organization</b> standardization definition

## Enhancements

Definitions including the version tag (v27) are the newest definitions. We recommend that you use these new definitions when possible. Be aware that software version restrictions apply for some definitions. See [Deprecations](#) for more details.

The following is a list of definitions that have been added or modified in this release. See the online Help for details about these definitions.

### Afrikaans, South Africa

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Locale Guess, Match, Parse, and Standardization
Address (Full)	Modified	Match, Parse, and Standardization
Address (Global)	Modified	Parse
Business Title	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
Contact Info	Modified	Identification Analysis
Country	Modified	Match and Standardization
Country (FIPS)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis



Definition Name	Action	Type of Definition
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
ID Number	Modified	Gender Analysis, Match, and Parse
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (with Combinations)	Modified	Match
Non-Number Removal	Modified	Standardization
Organization	Modified	Standardization
Organization Registration	Modified	Identification Analysis, Match, and Parse
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse
Phone (Multiple Number)	Modified	Parse
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### Arabic, Egypt

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match

Definition Name	Action	Type of Definition
Governorate	Modified	Match
Governorate (Arabic to English Transliteration)	Modified	Standardization
Governorate (English to Arabic Transliteration)	Modified	Standardization
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Standardization
Name (Arabic to English Transliteration)	Modified	Standardization
Name (English to Arabic Transliteration)	Modified	Standardization
Non-Number Removal	Modified	Standardization
Phone	Modified	Standardization
Phone (Legacy Mobile Conversion)	Modified	Standardization
Phone (with Country Code)	Modified	Standardization
Phone (with Governorate)	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### Chinese, China

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match and Standardization
Address (Full)	Modified	Match and Standardization
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
City	Modified	Match and Standardization
City - State/Province - Postal Code	Modified	Match and Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis

Definition Name	Action	Type of Definition
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
ID Number	Modified	Gender Analysis, Parse, and Standardization
Lower	Modified	Case
Name	Modified	Match and Standardization
Non-Number Removal	Modified	Standardization
Phone	Modified	Standardization
Phone (with Country Code)	Modified	Standardization
Postal Code	Modified	Match and Standardization
Postal Code (with Country Code)	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
State/Province	Modified	Match and Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### Czech, Czech Republic

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match, Parse, and Standardization
Address (Global)	Modified	Parse
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
Birth Number	Modified	Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match

Definition Name	Action	Type of Definition
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Match and Standardization
Name (Multiple Name)	Modified	Parse and Standardization
Non-Number Removal	Modified	Standardization
Organization	Modified	Match and Standardization
Phone	Modified	Standardization
Phone (with Country Code)	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### Danish, Denmark

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match and Standardization
Address (Street Only)	Modified	Match
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Match and Standardization
Non-Number Removal	Modified	Standardization
Proper	Modified	Case

Definition Name	Action	Type of Definition
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### Dutch, Belgium

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Parse
Address (Global)	Modified	Parse
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Name (No Translation)	Modified	Standardization
Non-Number Removal	Modified	Standardization
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization

Definition Name	Action	Type of Definition
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### Dutch, Netherlands

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Standardization
Address (Short Street Name)	Modified	Standardization
City	Modified	Standardization
City - State/Province - Postal Code	Modified	Match and Standardization
City - State/Province - Postal Code (International)	Modified	Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Individual/Organization	Modified	Identification Analysis
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Initials)	Modified	Match
Name (Multiple Name)	Modified	Parse
Name (Separate Prepositions)	Modified	Parse
Name (with Punctuation)	Modified	Standardization
Non-Number Removal	Modified	Standardization
Organization	Modified	Standardization
Phone	Modified	Standardization
Phone (with Country Code)	Modified	Standardization
Postal Code	Modified	Match and Standardization
Postal Code (with Country Code)	Modified	Standardization

Definition Name	Action	Type of Definition
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### English, Australia

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Identification Analysis, Match, and Parse
Address (Global)	Modified	Parse
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
Business Title	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
Contact Info	Modified	Identification Analysis
Country	Modified	Match and Standardization
Country (FIPS)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Hyphen/Dash Removal	Modified	Standardization

Definition Name	Action	Type of Definition
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (with Combinations)	Modified	Match
Name (with Suggestions)	Modified	Match
Non-Number Removal	Modified	Standardization
Organization	Modified	Standardization
Phone	Modified	Match, Parse, and Standardization
Phone (Electronic)	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (Type)	Modified	Identification Analysis
Phone (with Country Code)	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### English, Canada

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Standardization
Business Title	Modified	Match, Parse, and Standardization
City	Modified	Standardization
City - State/Province - Postal Code	Modified	Standardization
City - State/Province - Postal Code (International)	Modified	Standardization
Country	Modified	Match and Standardization
Country (FIPS)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Region)	Modified	Standardization



<b>Definition Name</b>	<b>Action</b>	<b>Type of Definition</b>
Country (Sub-Region)	Modified	Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Individual/Organization	Modified	Identification Analysis
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (with Combinations)	Modified	Match
Name (with Suggestions)	Modified	Match
Non-Number Removal	Modified	Standardization
Organization	Modified	Standardization
Phone	Modified	Standardization
Phone (Electronic)	Modified	Standardization
Phone (with Country Code)	Modified	Standardization
Postal Code	Modified	Standardization
Postal Code (with Country Code)	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
State/Province	Modified	Standardization
State/Province (Postal Standard)	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

## English, Hong Kong

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Business Title	Modified	Match, Parse, and Standardization
Contact Info	Modified	Identification Analysis
Country	Modified	Match and Standardization
Country (FIPS)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (with Combinations)	Modified	Match
Non-Number Removal	Modified	Standardization
Organization	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

## English, India

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Standardization
Address (Generic)	Modified	Standardization
Business Title	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
Contact Info	Modified	Identification Analysis
Country	Modified	Match and Standardization
Country (FIPS)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Matching)	Removed	Parse
Name (with Combinations)	Modified	Match
Name (with Extensions)	Modified	Match and Parse
Non-Number Removal	Modified	Standardization

Definition Name	Action	Type of Definition
Organization	Modified	Standardization
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### English, New Zealand

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match, Parse, and Standardization
Address (Extended)	Modified	Standardization
Address (Full)	Modified	Parse
Address (Global)	Modified	Parse
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
Address (with Preferred Delivery Info)	Modified	Parse
Business Title	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
Contact Info	Modified	Identification Analysis
Country	Modified	Match and Standardization
Country (FIPS)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis

Definition Name	Action	Type of Definition
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (with Combinations)	Modified	Match
Name (with Suggestions)	Modified	Match
Non-Number Removal	Modified	Standardization
Organization	Modified	Standardization
Phone	Modified	Standardization
Phone (Electronic)	Modified	Standardization
Phone (with Country Code)	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### English, Philippines

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	New	Parse
Address (Detailed)	New	Parse
Address (Full)	Modified	Match and Parse
Address (Global)	New	Parse
Country	Modified	Match and Standardization
Country (FIPS)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization

Definition Name	Action	Type of Definition
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Match, Parse, and Standardization
Name	New	Gender Analysis
Name (Global)	Modified	Parse
Non-Number Removal	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Tax ID	New	Match, Parse, and Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### English, South Africa

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Locale Guess, Match, Parse, and Standardization
Address (Full)	Modified	Match, Parse, and Standardization
Address (Global)	Modified	Parse
Business Title	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
Contact Info	Modified	Identification Analysis
Country	Modified	Match and Standardization

<b>Definition Name</b>	<b>Action</b>	<b>Type of Definition</b>
Country (FIPS)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
ID Number	Modified	Gender Analysis, Match, and Parse
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (with Combinations)	Modified	Match
Non-Number Removal	Modified	Standardization
Organization	Modified	Standardization
Organization Registration	Modified	Identification Analysis, Match, and Parse
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse
Phone (Multiple Number)	Modified	Parse
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

## English, United Kingdom

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Match and Parse
Address (Full) (with Combinations)	Modified	Match
Address (Global)	Modified	Parse
Business Title	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
Country	Modified	Match and Standardization
Country (FIPS)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Individual/Organization	Modified	Identification Analysis
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (with Combinations)	Modified	Match
Name (with Suggestions)	Modified	Match
Non-Number Removal	Modified	Standardization



Definition Name	Action	Type of Definition
Organization	Modified	Standardization
Phone	Modified	Standardization
Phone (with Country Code)	Modified	Standardization
Postal Code	Modified	Match and Standardization
Postal Code (Validation)	Modified	Identification Analysis
Postal Code (with Country Code)	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### English, United States

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match, Parse, and Standardization
Address (Detailed)	New	Parse
Address (Full)	Modified	Parse
Address (Global)	Modified	Parse
Business Title	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
Contact Info	Modified	Extraction and Identification Analysis
Country	Modified	Match and Standardization
Country (FIPS)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis

Definition Name	Action	Type of Definition
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (with Combinations)	Modified	Match
Name (with Suggestions)	Modified	Match
Non-Number Removal	Modified	Standardization
Organization	Modified	Standardization
Phone	Modified	Standardization
Phone (Electronic)	Modified	Standardization
Phone (with Country Code)	Modified	Standardization
Postal Code	Modified	Match, Parse, and Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### **Finnish, Finland**

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Match, Parse, and Standardization
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
City (Upper)	Modified	Standardization
Date (DMY Validation - Numeric	Modified	Identification Analysis

Definition Name	Action	Type of Definition
Only)		
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Individual/Organization	Modified	Identification Analysis
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Name (No Translation)	Modified	Standardization
Name (Swedish)	Modified	Standardization
Non-Number Removal	Modified	Standardization
Organization	Modified	Match, Parse, and Standardization
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### French, Belgium

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Parse
Address (Global)	Modified	Parse
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization

Definition Name	Action	Type of Definition
City - State/Province - Postal Code (Global)	Modified	Parse
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Gender Analysis, Parse, and Standardization
Name (Multiple Name)	Modified	Parse
Name (No Translation)	Modified	Standardization
Non-Number Removal	Modified	Standardization
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### French, Canada

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Standardization
Business Title	Modified	Match, Parse, and Standardization
City	Modified	Standardization
City - State/Province - Postal Code	Modified	Standardization
City - State/Province - Postal Code (International)	Modified	Standardization

<b>Definition Name</b>	<b>Action</b>	<b>Type of Definition</b>
Country	Modified	Match and Standardization
Country (FIPS)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Individual/Organization	Modified	Identification Analysis
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (with Combinations)	Modified	Match
Name (with Suggestions)	Modified	Match
Non-Number Removal	Modified	Standardization
Organization	Modified	Standardization
Phone	Modified	Standardization
Phone (Electronic)	Modified	Standardization
Phone (with Country Code)	Modified	Standardization
Postal Code	Modified	Standardization
Postal Code (with Country Code)	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
State/Province	Modified	Standardization
State/Province (Postal Standard)	Modified	Standardization
Upper	Modified	Case

Definition Name	Action	Type of Definition
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### French, France

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match, Parse, and Standardization
Address (AFNOR)	Modified	Standardization
Address (Detailed)	Modified	Parse
Address (Global)	Modified	Parse
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
City	Modified	Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
Country	Modified	Standardization
Country (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Name (with Suggestions)	Modified	Match
Name/Organization	Modified	Identification Analysis

Definition Name	Action	Type of Definition
Non-Number Removal	Modified	Standardization
Organization	Modified	Match and Standardization
Organization (Upper)	Modified	Standardization
Phone	Modified	Standardization
Phone (Electronic)	Modified	Standardization
Phone (with Country Code)	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Social Security Number	Modified	Parse
Social Security Number (Electronic)	Modified	Standardization
Social Security Number (Printed)	Modified	Standardization
Space Removal	Modified	Standardization
Text	Modified	Match
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### German, Germany

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match, Parse, and Standardization
Address (Global)	Modified	Parse
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
City	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Hyphen/Dash Removal	Modified	Standardization

Definition Name	Action	Type of Definition
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Name (with Suggestions)	Modified	Match
Non-Number Removal	Modified	Standardization
Organization	Modified	Match, Parse, and Standardization
Organization (Global)	Modified	Parse
Phone	Modified	Standardization
Phone (with Country Code)	Modified	Standardization
Postal Code	Modified	Parse
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### Greek, Greece

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Standardization
City	Modified	Standardization
City - State/Province - Postal Code	Modified	Match and Standardization
City - State/Province - Postal Code (International)	Modified	Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse



Definition Name	Action	Type of Definition
IBAN (Detailed)	Modified	Parse
ID Card Number	Modified	Identification Analysis
Individual/Organization	Modified	Identification Analysis
Island	Modified	Standardization
Name	Modified	Standardization
Name (Multiple Name)	Modified	Standardization
Name (Salutation)	Modified	Standardization
Non-Number Removal	Modified	Standardization
Organization	Modified	Match and Standardization
Patronym	Modified	Standardization
Phone	Modified	Identification Analysis, Match, Parse, and Standardization
Phone (Electronic)	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Postal Code	Modified	Match and Standardization
Postal Code (with Country Code)	Modified	Standardization
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
State/Province	Modified	Standardization
State/Province (Postal Standard)	Modified	Standardization
Tax ID	Modified	Identification Analysis and Standardization
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### Hebrew, Israel

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Standardization
City	Modified	Standardization
City - State/Province - Postal Code	Modified	Standardization
City - State/Province - Postal Code (International)	Modified	Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (DMY)	Modified	Match, Parse, and Standardization
Date (DMY) (with Combinations)	Modified	Match
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis

Definition Name	Action	Type of Definition
Date (MDY)	Modified	Match, Parse, and Standardization
Date (MDY) (with Combinations)	Modified	Match
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD)	Modified	Match, Parse, and Standardization
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Standardization
Non-Number Removal	Modified	Standardization
Organization	Modified	Standardization
Phone	Modified	Standardization
Phone (with Country Code)	Modified	Standardization
Postal Code	Modified	Standardization
Postal Code (with Country Code)	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### Hungarian, Hungary

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Match, Parse, and Standardization
Address (Global)	Modified	Parse
City	Modified	Match
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization

Definition Name	Action	Type of Definition
City - State/Province - Postal Code (Global)	Modified	Parse
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
ID Number	Modified	Match
Individual/Organization	Modified	Identification Analysis
Lower	Modified	Case
Name	Modified	Gender Analysis, Identification Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Marriage Name Only)	Modified	Match
Name (Multiple Name)	Modified	Parse
Name (with Infix)	Modified	Parse
Non-Number Removal	Modified	Standardization
Organization	Modified	Match, Parse, and Standardization
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Text	Modified	Match
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

## Italian, Italy

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match and Standardization
Address (Postal Standard)	Modified	Standardization
Address (Street Only)	Modified	Match
City - State/Province - Postal Code	Modified	Match
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (DMY)	Modified	Match, Parse, and Standardization
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY)	Modified	Match, Parse, and Standardization
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD)	Modified	Match, Parse, and Standardization
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Individual/Organization	Modified	Identification Analysis
Lower	Modified	Case
Name	Modified	Standardization
Non-Number Removal	Modified	Standardization
Organization	Modified	Match and Standardization
Phone	Modified	Standardization
Phone (with Country Code)	Modified	Standardization
Postal Code	Modified	Match
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Social Security Number	Modified	Match
Space Removal	Modified	Standardization
Text	Modified	Match
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

## Japanese, Japan

Definition Name	Action	Type of Definition
Account Number	Modified	Match
City	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Non-Number Removal	Modified	Standardization
Organization	Modified	Match, Parse, and Standardization
Organization (Global)	Modified	Parse
Phone	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Prefecture	Modified	Match and Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

## Korean, South Korea

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match, Parse, and Standardization
Address (Apartment Only)	Modified	Match
Address (Full)	Modified	Match, Parse, and Standardization
Address (Full) (Apartment Only)	Modified	Match
Address (Full) (PO Box Only)	Modified	Match

<b>Definition Name</b>	<b>Action</b>	<b>Type of Definition</b>
Address (Full) (Street Only)	Modified	Match
Address (Global)	Modified	Parse
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Identification Analysis, Match, Parse, and Standardization
E-mail (Multiple Address)	Modified	Parse
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Non-Number Removal	Modified	Standardization
Organization	Modified	Match, Parse, and Standardization
Organization (Two Organization)	Modified	Parse
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse
Proper	Modified	Case
Proper (Name)	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Social Security Number	Modified	Gender Analysis, Identification Analysis, Match, Parse, and Standardization
Space Removal	Modified	Standardization

Definition Name	Action	Type of Definition
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### Malay, Malaysia

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match, Parse, and Standardization
Address (Global)	Modified	Parse
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Ethnicity)	Modified	Identification Analysis
Name (Global)	Modified	Parse
Non-Number Removal	Modified	Standardization
Organization	Modified	Match, Parse, and Standardization
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

## Norwegian, Norway

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Extended)	Modified	Match
Name (Global)	Modified	Parse
Non-Number Removal	Modified	Standardization
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

## Polish, Poland

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match, Parse, and Standardization
Address (Global)	Modified	Parse
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code	Modified	Parse



Definition Name	Action	Type of Definition
(Global)		
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Individual/Organization	Modified	Identification Analysis
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse and Standardization
Name (Single/Multiple)	Modified	Identification Analysis
Non-Number Removal	Modified	Standardization
Organization	Modified	Match, Parse, and Standardization
Organization (Global)	Modified	Parse
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### Portuguese, Brazil

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match, Parse, and Standardization
Address (Abbreviated Street Type and Title)	Modified	Standardization
Address (Detailed)	Modified	Parse

Definition Name	Action	Type of Definition
Address (Full)	Modified	Match and Parse
Address (Full) (Detailed)	Modified	Parse
Address (Global)	Modified	Parse
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
City	Modified	Match and Standardization
City (v27)	New	Match
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
City - State/Province - Postal Code (International)	New	Standardization
City - State/Province - Postal Code (v26)	Removed	Parse
City - State/Province - Postal Code (v27)	New	Match and Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
ID Number (CNPJ)	Modified	Standardization
ID Number (CNPJ) (Electronic)	Modified	Standardization
ID Number (CPF)	Modified	Standardization
ID Number (CPF) (Electronic)	Modified	Standardization
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Expanded Prefix)	Modified	Standardization
Name (Global)	Modified	Parse
Name (v24)	Removed	Gender Analysis and Match
Non-Number Removal	Modified	Standardization
Organization	Modified	Parse and Standardization

Definition Name	Action	Type of Definition
Organization (Global)	Modified	Parse
Organization (v27)	New	Match
Phone	Modified	Match, Parse, and Standardization
Phone (Detailed)	Modified	Parse
Phone (Electronic)	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Postal Code	Removed	Parse
Postal Code	Modified	Match and Standardization
Postal Code (with Country Code)	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
State	Removed	Match
State (Full Name)	Removed	Standardization
State (Two Letter)	Removed	Standardization
State/Province (Postal Standard)	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### Portuguese, Portugal

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Standardization
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Non-Number Removal	Modified	Standardization
Proper	Modified	Case

Definition Name	Action	Type of Definition
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### Russian, Russia

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Match, Parse, and Standardization
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
City	Modified	Identification Analysis
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Individual/Organization	Modified	Identification Analysis
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Non-Number Removal	Modified	Standardization
Organization	Modified	Match and Standardization
Passport	Modified	Match, Parse, and Standardization
Phone	Modified	Match, Parse, and Standardization

Definition Name	Action	Type of Definition
Phone (Global)	Modified	Parse
Phone (Replace Obsolete Area Codes)	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### Slovak, Slovakia

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Parse
Address (Global)	Modified	Parse
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
Birth Number	Modified	Gender Analysis, Parse, and Standardization
City	Modified	Match and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Individual/Organization	Modified	Identification Analysis
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and

Definition Name	Action	Type of Definition
		Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse and Standardization
Non-Number Removal	Modified	Standardization
Organization	Modified	Match, Parse, and Standardization
Organization (Global)	Modified	Parse
Phone	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### Spanish, Mexico

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match, Parse, and Standardization
Address (Detailed)	New	Parse
Address (Full)	Modified	Match and Parse
Address (Global)	Modified	Parse
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
Address (v24)	Removed	Match and Standardization
City	Modified	Match and Standardization
City (v26)	Removed	Match
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
City - State/Province - Postal Code (International)	New	Standardization
City - State/Province - Postal Code (v26)	Removed	Parse
City - State/Province - Postal Code (v27)	New	Match
CURP	Modified	Gender Analysis
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis

Definition Name	Action	Type of Definition
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (v24)	Removed	Match and Standardization
Non-Number Removal	Modified	Standardization
Organization	Modified	Match, Parse, and Standardization
Organization (Global)	Modified	Parse
Organization (v24)	Removed	Parse
Organization (v27)	New	Match
Postal Code	Modified	Match and Standardization
Postal Code (with Country Code)	Modified	Standardization
Proper	Modified	Case
Proper (City - State/Province - Postal Code)	Modified	Case
Proper (Organization)	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
State/Province	Modified	Match and Standardization
State/Province (Postal Standard)	Modified	Standardization
Text	Modified	Match
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

### Spanish, Spain

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Standardization
Address (Global)	Modified	Parse

Definition Name	Action	Type of Definition
City	Modified	Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Individual/Organization	Modified	Identification Analysis
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Non-Number Removal	Modified	Standardization
Organization	Modified	Match, Parse, and Standardization
Organization (Global)	Modified	Parse
Organization (v27)	New	Match
Phone	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Proper	Modified	Case
Proper (Address)	Modified	Case
Proper (Organization)	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Text	Modified	Match
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization



## Swedish, Sweden

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Parse and Standardization
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Non-Number Removal	Modified	Standardization
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

## Thai, Thailand

Definition Name	Action	Type of Definition
Account Number	Modified	Match
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Non-Number Removal	Modified	Standardization
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse
Postal Code	Modified	Standardization
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

## Turkish, Turkey

Definition Name	Action	Type of Definition
Account Number	Modified	Match
Address	Modified	Match and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization

Definition Name	Action	Type of Definition
City - State/Province - Postal Code (Global)	Modified	Parse
Date (DMY Validation - Numeric Only)	Modified	Identification Analysis
Date (MDY Validation - Numeric Only)	Modified	Identification Analysis
Date (YMD Validation - Numeric Only)	Modified	Identification Analysis
E-mail	Modified	Match, Parse, and Standardization
E-mail (Multi-Address)	Modified	Parse
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Hyphen/Dash Removal	Modified	Standardization
Hyphen/Dash Space Replacement	Modified	Standardization
IBAN	Modified	Parse
IBAN (Detailed)	Modified	Parse
Lower	Modified	Case
Non-Number Removal	Modified	Standardization
Organization	Modified	Match and Standardization
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse
Proper	Modified	Case
Punctuation Space Replacement	Modified	Standardization
Space Removal	Modified	Standardization
Upper	Modified	Case
URL	Modified	Standardization
Website	Modified	Parse and Standardization

## Pre-parsed Input

Some standardization, match, and gender analysis definitions can be called with pre-parsed input SAS data management products. In this release, some definitions that previously accepted pre-parsed input no longer do so. These definitions are shown below:

- None.

## Known Problems

- Due to the complexity of Indian addresses, jobs using the **Address**, **Address (Global)**, and **Address (Full)** match, parse, and standardization definitions in the English, India locale might show higher rates of error than are typical for

other definitions. Jobs using these definitions might also take a long time to complete.

- Due to the large number of possible telephone area codes in Germany, extensive processing is required to parse German telephone numbers. Therefore, jobs run using the **Phone** match, parse, and standardization definitions in the German, Germany locale might take a long time to complete.
- When support for multiple locales is installed, the QKB installer for Windows might overestimate the amount of disk space required to complete the installation.