

# What's New in SAS<sup>®</sup> Quality Knowledge Base for Contact Information 26



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# What's New in SAS Quality Knowledge Base for Contact Information 26

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) 26.

- [Overview](#)
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See the SAS Quality Knowledge Base for Contact Information 26 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 26 includes updates for the following locales and definitions:

- English, Philippines
  - Address (Full) match and parse definitions
  - Name match, parse, and standardization definitions
- Portuguese, Brazil
  - Address (Full) parse definition
  - City standardization definition
  - City - State/Province - Postal Code parse definitions
  - Organization parse and standardization definitions

- Postal Code standardization definitions
- State/Province match and standardization definitions
- Spanish, Mexico
  - City match and standardization definitions
  - City - State/Province - Postal Code parse definitions
  - Phone (Global) parse definition
  - Postal Code standardization definitions
  - State/Province match and standardization definitions
- All locales
  - E-mail identification, match, parse, 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.

## 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" section of the SAS QKB online documentation.

## Full Support

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

### Afrikaans, South Africa

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition
Field Name (v23)	Identification Analysis	Removed	Replace with updated <b>Field Name</b> identification analysis definition

### Arabic, Egypt

Deprecated/Removed Definition	Definition Type	Status	Action
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition

### Chinese, China

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition
Field Name (v23)	Identification Analysis	Removed	Replace with updated <b>Field Name</b> identification analysis definition

## Czech, Czech Republic

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition

## Danish, Denmark

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition
Field Name (v23)	Identification Analysis	Removed	Replace with updated <b>Field Name</b> identification analysis definition

## Dutch, Belgium

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition

## Dutch, Netherlands

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition

## English, Australia

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition
Field Name (v23)	Identification Analysis	Removed	Replace with updated <b>Field Name</b> identification analysis definition

## English, Canada

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition
Field Name (v23)	Identification Analysis	Removed	Replace with updated <b>Field Name</b> identification analysis definition

## English, Hong Kong

Deprecated/Removed Definition	Definition Type	Status	Action
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition
Field Name (v23)	Identification Analysis	Removed	Replace with updated <b>Field Name</b> identification analysis definition

## English, India

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition
Field Name (v23)	Identification	Removed	Replace with updated <b>Field</b>



Deprecated/Removed Definition	Definition Type	Status	Action
	Analysis		<b>Name</b> identification analysis definition
Name (Matching)	Parse	Deprecated	Discontinue use

### English, New Zealand

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
Address (PO Box Only) (v22)	Match	Removed	Replace with updated <b>Address (PO Box Only)</b> match definition
Address (Street Only) (v22)	Match	Removed	Replace with updated <b>Address (Street Only)</b> match definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition
Field Name (v23)	Identification Analysis	Removed	Replace with updated <b>Field Name</b> identification analysis definition

### English, South Africa

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition
Field Name (v23)	Identification Analysis	Removed	Replace with updated <b>Field Name</b> identification analysis definition

### English, United Kingdom

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b>

Deprecated/Removed Definition	Definition Type	Status	Action
			match definition
Field Name (v23)	Identification Analysis	Removed	Replace with updated <b>Field Name</b> identification analysis definition

### English, United States

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
Address (Long)	Match	Removed	Replace with <b>Address</b> match definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition
Field Name (v23)	Identification Analysis	Removed	Replace with updated <b>Field Name</b> identification analysis definition

### Finnish, Finland

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition

### French, Belgium

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition

## French, Canada

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition
Field Name (v23)	Identification Analysis	Removed	Replace with updated <b>Field Name</b> identification analysis definition

## French, France

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition
Field Name (v23)	Identification Analysis	Removed	Replace with updated <b>Field Name</b> identification analysis definition

## German, Germany

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition
Field Name (v23)	Identification Analysis	Removed	Replace with updated <b>Field Name</b> identification analysis definition

## Greek, Greece

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition

## Hebrew, Israel

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition
Field Name (v23)	Identification Analysis	Removed	Replace with updated <b>Field Name</b> identification analysis definition

## Hungarian, Hungary

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition

## Italian, Italy

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition

## Japanese, Japan

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition

## Korean, South Korea

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition

## Malay, Malaysia

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition

## Norwegian, Norway

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition

## Polish, Poland

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition

## Portuguese, Brazil

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
Address (v23)	Match	Removed	Replace with updated <b>Address</b> match definition
Address (v23)	Parse	Removed	Replace with updated <b>Address</b> parse definition
City - State/Province - Postal Code	Parse	Outdated	Temporary <b>City - State/Province - Postal Code (v26)</b> parse definition contains updated processing
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition
Name (v24)	Gender	Deprecated	Replace with updated <b>Name</b> gender analysis definition
Name (v24)	Match	Deprecated	Replace with updated <b>Name</b> match definition
Phone (v23)	Match	Removed	Replace with updated <b>Phone</b> match definition
Postal Code	Parse	Deprecated	Discontinue use
State	Match	Deprecated	Replace with <b>State/Province</b> match definition
State (Full Name)	Standardization	Deprecated	Replace with <b>State/Province</b> standardization definition
State (Two Letter)	Standardization	Deprecated	Replace with <b>State/Province (Postal Standard)</b> standardization definition

## Portuguese, Portugal

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition

## Russian, Russia

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition

## Slovak, Slovakia

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition

## Spanish, Mexico

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
Address (v23)	Parse	Removed	Replace with updated <b>Address</b> parse definition
Address (v24)	Match	Deprecated	Replace with updated <b>Address</b> match definition
Address (v24)	Standardization	Deprecated	Replace with updated <b>Address</b> standardization definition
City	Match	Outdated	Temporary <b>City (v26)</b> match definition contains updated

Deprecated/Removed Definition	Definition Type	Status	Action
			processing
City - State/Province - Postal Code	Parse	Outdated	Temporary <b>City - State/Province - Postal Code (v26)</b> parse definition contains updated processing
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition
Name (v23)	Parse	Removed	Replace with updated <b>Name</b> parse definition
Name (v24)	Match	Deprecated	Replace with updated <b>Name</b> match definition
Name (v24)	Standardization	Deprecated	Replace with updated <b>Name</b> standardization definition
Organization (v24)	Parse	Deprecated	Replace with updated <b>Organization</b> parse definition
Phone (v23)	Parse	Removed	Replace with updated <b>Phone</b> parse definition
Proper (Address)	Case	Removed	Replace with updated <b>Address</b> standardization definition

### Spanish, Spain

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition

### Swedish, Sweden

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition



## Thai, Thailand

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition

## Turkish, Turkey

Deprecated/Removed Definition	Definition Type	Status	Action
Address (Full) (v23)	Parse	Removed	Replace with updated <b>Address (Full)</b> parse definition
Address (Global) (v23)	Parse	Removed	Replace with updated <b>Address (Global)</b> parse definition
Address (v23)	Parse	Removed	Replace with updated <b>Address</b> parse definition
E-mail (v23)	Match	Removed	Replace with updated <b>E-mail</b> match definition
Organization (v23)	Match	Removed	Replace with updated <b>Organization</b> match definition

## Enhancements

Definitions including the version tag (v26) 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
Address (Full)	Modified	Standardization
Address (Global) (v23)	Removed	Parse
City - State/Province - Postal Code	Modified	Standardization
Contact Info	Modified	Identification Analysis
Country	Modified	Match and Standardization
Country (FIPS)	Modified	Standardization

Definition Name	Action	Type of Definition
Country (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Field Name (v23)	Removed	Identification Analysis
ID Number	Modified	Gender Analysis
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Organization	Modified	Match and Standardization
Organization (with Site)	Modified	Match
Proper (Name)	Modified	Case
Text	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## Arabic, Egypt

Definition Name	Action	Type of Definition
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Governorate	Modified	Match
Governorate (Arabic to English Translation)	Modified	Standardization
Governorate (English to Arabic Translation)	Modified	Standardization
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Arabic to English Translation)	Modified	Standardization

Definition Name	Action	Type of Definition
Name (English to Arabic Translation)	Modified	Standardization
Name (Global)	Modified	Parse
Phone	Modified	Identification Analysis, Match, Parse, and Standardization
Phone (Electronic)	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (Legacy Mobile Conversion)	Modified	Standardization
Phone (Multiple Number)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Phone (with Governorate)	Modified	Standardization
URL	Modified	Standardization
Website	Modified	Standardization

## Chinese, China

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Match, Parse, and Standardization
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	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	Modified	Match and Parse
Date (Chinese Calendar)	Modified	Standardization
Date (Western Calendar)	Modified	Standardization
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Field Name (v23)	Removed	Identification Analysis
ID Number	Modified	Gender Analysis, Parse, and Standardization
Individual/Organization	Modified	Identification Analysis

Definition Name	Action	Type of Definition
Name	Modified	Match, Parse, and Standardization
Name (Global)	Modified	Parse
Organization	Modified	Match, Parse, and Standardization
Organization (Global)	Modified	Parse
Postal Code	Modified	Match and Standardization
Postal Code (with Country Code)	Modified	Standardization
State/Province	Modified	Match and Standardization
URL	Modified	Standardization
Website	Modified	Standardization

## Czech, Czech Republic

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
Birth Number	Modified	Gender Analysis, Parse, and Standardization
City	Modified	Match
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Individual/Organization	Modified	Identification Analysis
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse and Standardization
Organization	Modified	Match, Parse, and Standardization
Organization (Global)	Modified	Parse
Phone	Modified	Match, Parse, and Standardization
Phone (Electronic)	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
URL	Modified	Standardization

Definition Name	Action	Type of Definition
Website	Modified	Standardization

## Danish, Denmark

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Match, Parse, and Standardization
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
City	Modified	Match
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Field Name (v23)	Removed	Identification Analysis
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Name (Trailing Title)	Modified	Standardization
Organization	Modified	Match
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse
URL	Modified	Standardization
Website	Modified	Standardization

## Dutch, Belgium

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Parse
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse

Definition Name	Action	Type of Definition
City	Modified	Match and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Name (No Translation)	Modified	Standardization
Organization	Modified	Match and Standardization
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Street Name	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## Dutch, Netherlands

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Parse
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
Address (PO Box Only)	Modified	Match
Address (Short Street Name)	Modified	Standardization
Address (Street Only)	Modified	Match
City	Modified	Match and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
City - State/Province - Postal Code (International)	Modified	Standardization
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match

Definition Name	Action	Type of Definition
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Individual/Organization	Modified	Identification Analysis
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
Organization	Modified	Match, Parse, and Standardization
Organization (Abbr)	Modified	Match
Organization (Global)	Modified	Parse
Phone	Modified	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
State/Province	Modified	Match and Standardization
State/Province (Postal Standard)	Modified	Standardization
URL	Modified	Standardization
Website	Modified	Standardization

## English, Australia

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Identification Analysis, Match, and Parse
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	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
Contact Info	Modified	Identification Analysis
Country	Modified	Match and Standardization
Country (FIPS)	Modified	Standardization

Definition Name	Action	Type of Definition
Country (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Field Name (v23)	Removed	Identification Analysis
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Name (with Suggestions)	Modified	Match
Organization	Modified	Match and Standardization
Phone	Modified	Match, Parse, and Standardization
Phone (Electronic)	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Proper (Name)	Modified	Case
Text	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## English, Canada

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Detailed)	Modified	Parse
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
City	Modified	Match and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
City - State/Province - Postal Code (International)	Modified	Standardization



Definition Name	Action	Type of Definition
Country	Modified	Match and Standardization
Country (FIPS)	Modified	Standardization
Country (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Field Name (v23)	Removed	Identification Analysis
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Name (with Suggestions)	Modified	Match
Organization	Modified	Match and Standardization
Phone	Modified	Match, Parse, and Standardization
Phone (Electronic)	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (Validation)	Modified	Identification Analysis
Phone (with Country Code)	Modified	Standardization
Postal Code	Modified	Match, Parse, and Standardization
Postal Code (Validation)	Modified	Identification Analysis
Postal Code (with Country Code)	Modified	Standardization
State/Province	Modified	Match and Standardization
State/Province (Postal Standard)	Modified	Standardization
Text	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## English, Hong Kong

Definition Name	Action	Type of Definition
Contact Info	Modified	Identification Analysis
Country	Modified	Match and Standardization
Country (FIPS)	Modified	Standardization

Definition Name	Action	Type of Definition
Country (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Field Name (v23)	Removed	Identification Analysis
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Organization	Modified	Match and Standardization
Proper (Name)	Modified	Case
Text	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## English, India

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Parse
Address (Generic)	Modified	Standardization
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
City	Modified	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 (ISO 2 Char)	Modified	Standardization

Definition Name	Action	Type of Definition
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Field Name (v23)	Removed	Identification Analysis
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Matching)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Name (with Extensions)	Modified	Match and Parse
Organization	Modified	Match and Standardization
State	Modified	Standardization
Text	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## English, New Zealand

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Extended)	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Parse
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
Address (PO Box Only)	Modified	Match
Address (PO Box Only) (v22)	Removed	Match
Address (Street Only)	Modified	Match
Address (Street Only) (v22)	Removed	Match
Address (with Preferred Delivery Info)	Modified	Parse
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal	Modified	Parse

Definition Name	Action	Type of Definition
Code (Global)		
Contact Info	Modified	Identification Analysis
Country	Modified	Match and Standardization
Country (FIPS)	Modified	Standardization
Country (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Field Name (v23)	Removed	Identification Analysis
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Name (with Suggestions)	Modified	Match
Organization	Modified	Match and Standardization
Phone	Modified	Identification Analysis, Match, Parse, and Standardization
Phone (Electronic)	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Proper (Name)	Modified	Case
Text	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## English, Philippines

Definition Name	Action	Type of Definition
Address (Full)	Modified	Parse
Address (Full)	New	Match
Country	Modified	Match and Standardization
Country (FIPS)	Modified	Standardization
Country (ISO 2 Char)	Modified	Standardization

Definition Name	Action	Type of Definition
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	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
Name	New	Match, Parse, and Standardization
Name (Global)	New	Parse
Text	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## English, South Africa

Definition Name	Action	Type of Definition
Address (Full)	Modified	Standardization
Address (Global) (v23)	Removed	Parse
City - State/Province - Postal Code	Modified	Standardization
Contact Info	Modified	Identification Analysis
Country	Modified	Match and Standardization
Country (FIPS)	Modified	Standardization
Country (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Field Name (v23)	Removed	Identification Analysis
ID Number	Modified	Gender Analysis
Name	Modified	Gender Analysis, Match, Parse, and Standardization

Definition Name	Action	Type of Definition
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Organization	Modified	Match and Standardization
Organization (with Site)	Modified	Match
Proper (Name)	Modified	Case
Text	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## English, United Kingdom

Definition Name	Action	Type of Definition
Address (Full)	Modified	Match
Address (Global) (v23)	Removed	Parse
City - State/Province - Postal Code (Global)	Modified	Parse
Country	Modified	Match and Standardization
Country (FIPS)	Modified	Standardization
Country (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Field Name (v23)	Removed	Identification Analysis
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Name (with Suggestions)	Modified	Match
Organization	Modified	Match and Standardization
Phone	Modified	Identification Analysis, Match, Parse, and Standardization
Phone (Electronic)	Modified	Standardization
Phone (Global)	Modified	Parse

Definition Name	Action	Type of Definition
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 (Name)	Modified	Case
Text	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## English, United States

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Parse
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
Address (Long)	Removed	Match
City	Modified	Match 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 (ISO 2 Char)	Modified	Standardization
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Field Name (v23)	Removed	Identification Analysis
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse

Definition Name	Action	Type of Definition
Name (with Suggestions)	Modified	Match
Name/Organization	Modified	Parse
Organization	Modified	Match and Standardization
Phone	Modified	Match, Parse, and Standardization
Phone (Electronic)	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (Validation)	Modified	Identification Analysis
Phone (with Country Code)	Modified	Standardization
Proper (Name)	Modified	Case
Text	Modified	Match
Text (Long)	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

### Finnish, Finland

Definition Name	Action	Type of Definition
Address	Modified	Standardization
Address (Full)	Modified	Match and Standardization
Address (Global) (v23)	Removed	Parse
City	Modified	Match
City - State/Province - Postal Code	Modified	Match and Standardization
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Name	Modified	Match and Standardization
Name (No Translation)	Modified	Standardization
Name (Swedish)	Modified	Standardization
Organization	Modified	Match and Standardization
Phone	Modified	Standardization
Phone (with Country Code)	Modified	Standardization
URL	Modified	Standardization
Website	Modified	Standardization

### French, Belgium

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Parse



Definition Name	Action	Type of Definition
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
City	Modified	Match and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Name (No Translation)	Modified	Standardization
Organization	Modified	Match and Standardization
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Street Name	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## French, Canada

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Detailed)	Modified	Parse
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
City	Modified	Match and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
City - State/Province - Postal Code (International)	Modified	Standardization
Country	Modified	Match and Standardization
Country (FIPS)	Modified	Standardization
Country (ISO 2 Char)	Modified	Standardization

Definition Name	Action	Type of Definition
Country (ISO 3 Char)	Modified	Standardization
Country (ISO Number)	Modified	Standardization
Country (Internet)	Modified	Standardization
Country (Region)	Modified	Standardization
Country (Sub-Region)	Modified	Standardization
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Field Name (v23)	Removed	Identification Analysis
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Name (with Suggestions)	Modified	Match
Organization	Modified	Match and Standardization
Phone	Modified	Match, Parse, and Standardization
Phone (Electronic)	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (Validation)	Modified	Identification Analysis
Phone (with Country Code)	Modified	Standardization
Postal Code	Modified	Match, Parse, and Standardization
Postal Code (Validation)	Modified	Identification Analysis
Postal Code (with Country Code)	Modified	Standardization
State/Province	Modified	Match and Standardization
State/Province (Postal Standard)	Modified	Standardization
Text	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## French, France

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Detailed)	Modified	Parse
Address (Full)	Modified	Parse
Address (Full) (AFNOR)	Modified	Parse
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse

Definition Name	Action	Type of Definition
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
City	Modified	Match and 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
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Field Name (v23)	Removed	Identification Analysis
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 and Parse
Organization	Modified	Match, Parse, and Standardization
Organization (Global)	Modified	Parse
Organization (Upper)	Modified	Standardization
Phone	Modified	Match, Parse, and Standardization
Phone (Electronic)	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Text	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## German, Germany

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match

Definition Name	Action	Type of Definition
City	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Field Name (v23)	Removed	Identification Analysis
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Name (with Suggestions)	Modified	Match
Organization	Modified	Match, Parse, and Standardization
Organization (Global)	Modified	Parse
Phone	Modified	Match, Parse, and Standardization
Phone (Electronic)	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Text	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## Greek, Greece

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Parse
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
City	Modified	Match and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
City - State/Province - Postal Code	Modified	Standardization

Definition Name	Action	Type of Definition
(International)		
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
ID Card Number	Modified	Identification Analysis
Island	Modified	Match and Standardization
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse and Standardization
Name (Salutation)	Modified	Standardization
Organization	Modified	Match, Parse, and Standardization
Organization (Global)	Modified	Parse
Patronym	Modified	Standardization
Phone	Modified	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
State/Province	Modified	Match and Standardization
State/Province (Postal Standard)	Modified	Standardization
Tax ID	Modified	Parse and Standardization
URL	Modified	Standardization
Website	Modified	Standardization

## Hebrew, Israel

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Detailed)	Modified	Parse
Address (Full)	Modified	Match and Parse
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
City	Modified	Match and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code	Modified	Parse

Definition Name	Action	Type of Definition
(Global)		
City - State/Province - Postal Code (International)	Modified	Standardization
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Field Name	Modified	Identification Analysis and Match
Field Name (v23)	Removed	Identification Analysis
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Organization	Modified	Match, Parse, and Standardization
Organization (Global)	Modified	Parse
Phone	Modified	Match, Parse, and Standardization
Phone (Electronic)	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (Multiple Number)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Postal Code	Modified	Match and Standardization
Postal Code (with Country Code)	Modified	Standardization
URL	Modified	Standardization
Website	Modified	Standardization

## Hungarian, Hungary

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Match, Parse, and Standardization
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
City	Modified	Match
City - State/Province - Postal Code	Modified	Match
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Individual/Organization	Modified	Identification Analysis

Definition Name	Action	Type of Definition
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
Organization	Modified	Match, Parse, and Standardization
Text	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## Italian, Italy

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Parse
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
Address (PO Box Only)	Modified	Match
Address (Postal Standard)	Modified	Standardization
Address (Street Only)	Modified	Match
City	Modified	Match and Standardization
City (Postal Standard)	Modified	Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
City - State/Province - Postal Code (International)	Modified	Standardization
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Name (with Family Name Extension)	Modified	Parse
Organization	Modified	Match, Parse, and Standardization
Organization (Global)	Modified	Parse
Phone	Modified	Match, Parse, and Standardization

Definition Name	Action	Type of Definition
Phone (Electronic)	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (Separate Mobile Prefix)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Postal Code	Modified	Match and Standardization
Postal Code (with Country Code)	Modified	Standardization
State/Province	Modified	Match and Standardization
State/Province (Postal Standard)	Modified	Standardization
Text	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## Japanese, Japan

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Match, Parse, and Standardization
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	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	Modified	Match
Date (Japanese Calendar)	Modified	Standardization
Date (Western Calendar)	Modified	Standardization
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Individual/Organization	Modified	Identification Analysis
Organization	Modified	Match, Parse, and Standardization
Organization (Global)	Modified	Parse



Definition Name	Action	Type of Definition
Phone	Modified	Standardization
Phone (with Country Code)	Modified	Standardization
URL	Modified	Standardization
Website	Modified	Standardization

### Korean, South Korea

Definition Name	Action	Type of Definition
Address (Global) (v23)	Removed	Parse
E-mail	Modified	Identification Analysis, Match, Parse, and Standardization
E-mail (Multiple Address)	Modified	Parse
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

### Malay, Malaysia

Definition Name	Action	Type of Definition
Address (Global) (v23)	Removed	Parse
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Organization	Modified	Match, Parse, and Standardization
URL	Modified	Standardization
Website	Modified	Standardization

## Norwegian, Norway

Definition Name	Action	Type of Definition
Address	Modified	Locale Guess, Match, Parse, and Standardization
Address (Full)	Modified	Match and Parse
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
Address (Neighbourhood Only)	Modified	Match
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
City	Modified	Match
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Extended)	Modified	Match
Name (Global)	Modified	Parse
Organization	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## Polish, Poland

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
Country	Modified	Match and Standardization
Country (ISO 2 Char)	Modified	Standardization
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match

Definition Name	Action	Type of Definition
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
Organization	Modified	Match
Organization (Global)	Modified	Parse
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse
URL	Modified	Standardization
Website	Modified	Standardization

### Portuguese, Brazil

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Abbreviated Street Type and Title)	Modified	Standardization
Address (Detailed)	Modified	Parse
Address (Full)	Modified	Match and Parse
Address (Full) (Detailed)	Modified	Parse
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
Address (v23)	Removed	Match and Parse
City	Modified	Match and Standardization
City - State/Province - Postal Code	Modified	Match and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
City - State/Province - Postal Code (v26)	New	Parse
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
ID Number (CNPJ)	Modified	Standardization
ID Number (CNPJ) (Electronic)	Modified	Standardization
ID Number (CPF)	Modified	Standardization
ID Number (CPF) (Electronic)	Modified	Standardization

Definition Name	Action	Type of Definition
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Expanded Prefix)	Modified	Standardization
Name (Global)	Modified	Parse
Name (v24)	Modified	Gender Analysis and Match
Name/Organization	Modified	Identification Analysis
Offensive	Modified	Identification Analysis
Organization	New	Parse
Organization	Modified	Match and Standardization
Organization (Global)	New	Parse
Phone	Modified	Match, Parse, and Standardization
Phone (Detailed)	Modified	Parse
Phone (Electronic)	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (v23)	Removed	Match
Phone (with Country Code)	Modified	Standardization
Postal Code	Modified	Match, Parse, and Standardization
Postal Code (with Country Code)	New	Standardization
Proper	Modified	Case
State	Modified	Match
State (Full Name)	Modified	Standardization
State (Two Letter)	Modified	Standardization
State/Province	New	Match and Standardization
State/Province (Postal Standard)	New	Standardization
Text	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## Portuguese, Portugal

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Parse
Address (Global) (v23)	Removed	Parse
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match

Definition Name	Action	Type of Definition
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Organization	Modified	Match and Standardization
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse
URL	Modified	Standardization
Website	Modified	Standardization

### Russian, Russia

Definition Name	Action	Type of Definition
Address (Global) (v23)	Removed	Parse
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

### Slovak, Slovakia

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Parse
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	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
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis

Definition Name	Action	Type of Definition
E-mail (with Combinations)	Modified	Match
Individual/Organization	Modified	Identification Analysis
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse and Standardization
Organization	Modified	Match, Parse, and Standardization
Organization (Global)	Modified	Parse
Phone	Modified	Match, Parse, and Standardization
Phone (Electronic)	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Postal Code	Modified	Standardization
URL	Modified	Standardization
Website	Modified	Standardization

### Spanish, Mexico

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Match and Parse
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
Address (v23)	Removed	Parse
Address (v24)	Modified	Match and Standardization
City	Modified	Match and Standardization
City (v26)	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 (v26)	New	Parse
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Name	Modified	Gender Analysis, Match, Parse, and

Definition Name	Action	Type of Definition
		Standardization
Name (Global)	Modified	Parse
Name (v23)	Removed	Parse
Name (v24)	Modified	Match and Standardization
Organization	Modified	Match, Parse, and Standardization
Organization (Global)	Modified	Parse
Organization (v24)	Modified	Parse
Phone	Modified	Match, Parse, and Standardization
Phone (Basic)	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (IFETEL)	Modified	Parse
Phone (v23)	Removed	Parse
Postal Code	Modified	Standardization
Postal Code (with Country Code)	New	Standardization
Proper (Address)	Removed	Case
State/Province	New	Match and Standardization
State/Province (Postal Standard)	New	Standardization
Text	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## Spanish, Spain

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Parse
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
City	Modified	Match and Standardization
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Name	Modified	Gender Analysis, Match, Parse, and Standardization

Definition Name	Action	Type of Definition
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Organization	Modified	Match, Parse, and Standardization
Organization (Global)	Modified	Parse
Phone	Modified	Match, Parse, and Standardization
Phone (Electronic)	Modified	Standardization
Phone (Global)	Modified	Parse
Phone (with Country Code)	Modified	Standardization
Text	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## Swedish, Sweden

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Parse and Standardization
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
Address (PO Box Only)	Modified	Match
Address (Street Only)	Modified	Match
City	Modified	Match
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Name	Modified	Gender Analysis, Match, Parse, and Standardization
Name (Global)	Modified	Parse
Name (Multiple Name)	Modified	Parse
Organization	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization



## Thai, Thailand

Definition Name	Action	Type of Definition
Address (Global) (v23)	Removed	Parse
E-mail	Modified	Match, Parse, and Standardization
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
URL	Modified	Standardization
Website	Modified	Standardization

## Turkish, Turkey

Definition Name	Action	Type of Definition
Address	Modified	Match, Parse, and Standardization
Address (Full)	Modified	Parse
Address (Full) (v23)	Removed	Parse
Address (Global)	Modified	Parse
Address (Global) (v23)	Removed	Parse
Address (v23)	Removed	Parse
City	Modified	Match
City - State/Province - Postal Code	Modified	Match, Parse, and Standardization
City - State/Province - Postal Code (Global)	Modified	Parse
E-mail	Modified	Match, Parse, and Standardization
E-mail (Multi-Address)	Modified	Parse
E-mail (v23)	Removed	Match
E-mail (Validation)	Modified	Identification Analysis
E-mail (with Combinations)	Modified	Match
Name	Modified	Match, Parse, and Standardization
Name (Global)	Modified	Parse
Organization	Modified	Match, Parse, and Standardization
Organization (Global)	Modified	Parse
Organization (v23)	Removed	Match
Phone	Modified	Match, Parse, and Standardization
Phone (Global)	Modified	Parse

Definition Name	Action	Type of Definition
URL	Modified	Standardization
Website	Modified	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:

### Spanish, Mexico

Definition Name	Type of Definition
Address	Match and Standardization

## 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.