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What's New in **SAS[®] Quality Knowledge Base for Contact Information 24**

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What's New in SAS® Quality Knowledge Base for Contact Information 24

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What's New in SAS Quality Knowledge Base for Contact Information 24

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) 24.

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

See the SAS Quality Knowledge Base for Contact Information 24 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 24 includes updates for the following locales and definitions:

- Portuguese, Brazil
 - Address (Full) match definition
 - Name gender analysis and match definitions
- Spanish, Mexico
 - Address match and standardization definitions
 - Name match, parse, and standardization definitions
 - Organization parse definitions
 - Phone match and standardization definitions

- CURP gender analysis and identification analysis definitions
- Individual/Organization (RFC) identification analysis definition
- Spanish, Spain
 - Organization parse 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 24 into any QKB that was released prior to QKB CI 2010B. It is possible to merge an earlier QKB into QKB CI 24 after installing it into a separate location. See the "QKB Merge Tool" section in the online Help for details.

Locale Support

This release includes support for the following locales:

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

* partial support. See the "Definitions" section of the SAS QKB online documentation.

Additional Tokens

None.

Deprecations

SAS deprecates QKB definitions for various reasons, including:

- definition is removed or renamed
- output tokens of the definitions are changed
- length of the match code is increased

Deprecated definitions are retained in the QKB for one release. They are then removed from the QKB in the following release.

You might notice that some new definition names include a version tag (denoting the QKB release in which the definition was introduced). This naming convention indicates that a definition is scheduled to be replaced by a new definition. For example, you might see definitions like the following in this release:

- **Phone**
- **Phone (v24)**

These names indicate that the **Phone** definition will be replaced by the **Phone (v24)** definition in a subsequent release. The name **Phone** does not change, however. In that release, the definition with the version tag in its name, **Phone (v24)**, will be deprecated and removed.

- **Phone**
- **Phone (v24) —> Phone**
- **Phone (v24) —> Phone (v24) <deprecated>**

The deprecated **Phone (v24)** definition will be removed in a future release.

The following is a list of definitions that were affected by this deprecation policy in the 23 or 24 release:

| Marked | Description |
|------------|---|
| Added | Definitions marked "Added" are new definitions with updated tokens, match code lengths, or definition name changes. We recommend that you replace calls to current definitions with calls to the new definitions in all jobs. Names of new definitions often include a version tag such as (v24). |
| Deprecated | Definitions marked "Deprecated" are deprecated and will be removed or replaced in a future release. We recommend that you remove calls to deprecated definitions and replace them with calls to the replacement definitions in all jobs. Names of deprecated definitions often include a version tag such as (v24). |
| Replaced | Definitions marked "Replaced" are replaced by copies of other definitions, but have retained their original names. Because definitions that are replaced often have new or different tokens or match code lengths, you might need to update your job to use the enhancements if your job calls a definition that is replaced. |

| Marked | Description |
|--------|---|
| Same | Definitions marked "Same" have not been significantly changed in this release but are related to added or deprecated definitions. |

Afrikaans, South Africa

| Definition Name | Action | Type of Definition |
|------------------------|------------|-------------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |
| Field Name | Replaced | Identification Analysis |
| Field Name (v23) | Deprecated | Identification Analysis |

Arabic, Egypt

| Definition Name | Action | Type of Definition |
|-----------------|------------|--------------------|
| E-mail | Same | Match |
| E-mail (v23) | Deprecated | Match |

Chinese, China

| Definition Name | Action | Type of Definition |
|------------------------|------------|-------------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |
| Field Name | Replaced | Identification Analysis |
| Field Name (v23) | Deprecated | Identification Analysis |

Czech, Czech Republic

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |

Danish, Denmark

| Definition Name | Action | Type of Definition |
|------------------------|------------|-------------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |
| Field Name | Replaced | Identification Analysis |
| Field Name (v23) | Deprecated | Identification Analysis |

Dutch, Belgium

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |

Dutch, Netherlands

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |

English, Australia

| Definition Name | Action | Type of Definition |
|------------------------|------------|-------------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |
| Field Name | Replaced | Identification Analysis |
| Field Name (v23) | Deprecated | Identification Analysis |

English, Canada

| Definition Name | Action | Type of Definition |
|------------------------|------------|-------------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |
| Field Name | Replaced | Identification Analysis |
| Field Name (v23) | Deprecated | Identification Analysis |

English, Hong Kong

| Definition Name | Action | Type of Definition |
|------------------|------------|-------------------------|
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |
| Field Name | Replaced | Identification Analysis |
| Field Name (v23) | Deprecated | Identification Analysis |

English, India

| Definition Name | Action | Type of Definition |
|------------------------|------------|-------------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |
| Field Name | Replaced | Identification Analysis |
| Field Name (v23) | Deprecated | Identification Analysis |

English, New Zealand

| Definition Name | Action | Type of Definition |
|-----------------------------|------------|-------------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| Address (Street Only) | Replaced | Match |
| Address (Street Only) (v22) | Deprecated | Match |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |
| Field Name | Replaced | Identification Analysis |
| Field Name (v23) | Deprecated | Identification Analysis |

English, South Africa

| Definition Name | Action | Type of Definition |
|------------------------|------------|-------------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |
| Field Name | Replaced | Identification Analysis |
| Field Name (v23) | Deprecated | Identification Analysis |

English, United Kingdom

| Definition Name | Action | Type of Definition |
|------------------------|------------|-------------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |
| Field Name | Replaced | Identification Analysis |
| Field Name (v23) | Deprecated | Identification Analysis |

English, United States

| Definition Name | Action | Type of Definition |
|------------------------|------------|-------------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| Address (Long) | Deprecated | Match |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |
| Field Name | Replaced | Identification Analysis |
| Field Name (v23) | Deprecated | Identification Analysis |

Finnish, Finland

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |

French, Belgium

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |

French, Canada

| Definition Name | Action | Type of Definition |
|------------------------|------------|-------------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |
| Field Name | Replaced | Identification Analysis |
| Field Name (v23) | Deprecated | Identification Analysis |

French, France

| Definition Name | Action | Type of Definition |
|------------------------|------------|-------------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |
| Field Name | Replaced | Identification Analysis |
| Field Name (v23) | Deprecated | Identification Analysis |

German, Germany

| Definition Name | Action | Type of Definition |
|------------------------|------------|-------------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |
| Field Name | Replaced | Identification Analysis |
| Field Name (v23) | Deprecated | Identification Analysis |

Greek, Greece

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |

Hebrew, Israel

| Definition Name | Action | Type of Definition |
|------------------------|------------|-------------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |
| Field Name | Replaced | Identification Analysis |
| Field Name (v23) | Deprecated | Identification Analysis |

Hungarian, Hungary

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |

Italian, Italy

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |

Japanese, Japan

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |

Korean, South Korea

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |

Malay, Malaysia

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |

Norwegian, Norway

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |

Polish, Poland

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |

Portuguese, Brazil

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address | Replaced | Match and Parse |
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| Address (v23) | Deprecated | Match and Parse |
| E-mail | Replaced | Match |

| Definition Name | Action | Type of Definition |
|-----------------|------------|---------------------------|
| E-mail (v23) | Deprecated | Match |
| Name | Deprecated | Gender Analysis and Match |
| Name (v24) | Added | Gender Analysis and Match |
| Phone | Replaced | Match |
| Phone (v23) | Deprecated | Match |

Portuguese, Portugal

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |

Russian, Russia

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |

Slovak, Slovakia

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |

Spanish, Mexico

| Definition Name | Action | Type of Definition |
|------------------------|------------|---------------------------|
| Address | Deprecated | Match and Standardization |
| Address | Replaced | Parse |
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| Address (v23) | Deprecated | Parse |
| Address (v24) | Added | Match and Standardization |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |
| Name | Replaced | Parse |
| Name | Deprecated | Match and Standardization |
| Name (v23) | Deprecated | Parse |
| Name (v24) | Added | Match and Standardization |
| Organization | Deprecated | Parse |

| Definition Name | Action | Type of Definition |
|--------------------|------------|--------------------|
| Organization (v24) | Added | Parse |
| Phone | Replaced | Parse |
| Phone (v23) | Deprecated | Parse |
| Proper (Address) | Deprecated | Case |

Spanish, Spain

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |

Swedish, Sweden

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |

Thai, Thailand

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |

Turkish, Turkey

| Definition Name | Action | Type of Definition |
|------------------------|------------|--------------------|
| Address | Replaced | Parse |
| Address (Full) | Replaced | Parse |
| Address (Full) (v23) | Deprecated | Parse |
| Address (v23) | Deprecated | Parse |
| Address (Global) | Replaced | Parse |
| Address (Global) (v23) | Deprecated | Parse |
| E-mail | Replaced | Match |
| E-mail (v23) | Deprecated | Match |
| Organization | Replaced | Match |
| Organization (v23) | Deprecated | Match |

Enhancements

Definitions including the version tag (v24) 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 (Global) | Modified | Parse |
| Address (Global) (v23) | Modified | Parse |
| City | Modified | Standardization |
| 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 |
| Date (DMY) | Modified | Match, Parse, and Standardization |
| Date (DMY) (with Combinations) | Modified | Match |
| Date (MDY) | Modified | Match, Parse, and Standardization |
| Date (MDY) (with Combinations) | Modified | Match |
| Date (YMD) | Modified | Match, Parse, and Standardization |
| Date/Time (DMY) | Modified | Match and Parse |
| Date/Time (DMY) Basic | Modified | Standardization |
| Date/Time (DMY) Extended | Modified | Standardization |
| Date/Time (MDY) | Modified | Match and Parse |
| Date/Time (MDY) Basic | Modified | Standardization |
| Date/Time (MDY) Extended | Modified | Standardization |
| Date/Time (YMD) | Modified | Match and Parse |
| Date/Time (YMD) Basic | Modified | Standardization |
| Date/Time (YMD) Extended | Modified | Standardization |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Field Name | Modified | Identification Analysis and Match |
| Field Name (v23) | Modified | 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 |
| Name (with Combinations) | Modified | Match |
| Organization | Modified | Standardization |
| Proper (Address) | Modified | Case |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

Arabic, Egypt

| Definition Name | Action | Type of Definition |
|---|----------|--|
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Governorate | Modified | Match |
| Governorate (Arabic to English Transliteration) | Modified | Standardization |
| Governorate (English to Arabic Transliteration) | Modified | Standardization |
| Name | Modified | Gender Analysis, Match, Parse, and Standardization |
| Name (Arabic to English Transliteration) | Modified | Standardization |
| Name (English to Arabic Transliteration) | 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 |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

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) | 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 | Modified | Match and Parse |
| Date (Chinese Calendar) | Modified | Standardization |
| Date (Western Calendar) | Modified | Standardization |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Field Name | Modified | Identification Analysis and Match |
| Field Name (v23) | Modified | Identification Analysis |
| ID Number | Modified | Gender Analysis, Parse, and Standardization |
| Individual/Organization | Modified | Identification Analysis |
| 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 |
| Proper (Address Number) | Modified | Case |
| State/Province | Modified | Match and Standardization |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

Czech, Czech Republic

| Definition Name | Action | Type of Definition |
|------------------------|----------|---|
| Address | Modified | Match, Parse, and Standardization |
| Address (Global) | Modified | Parse |
| Address (Global) (v23) | Modified | Parse |
| Address (PO Box Only) | Modified | Match |
| Address (Street Only) | Modified | Match |
| Birth Number | Modified | Gender Analysis, Parse, and Standardization |
| City | Modified | Match |

| Definition Name | Action | Type of Definition |
|--|----------|--|
| 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) | Modified | Match |
| 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 |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

Danish, Denmark

| Definition Name | Action | Type of Definition |
|--|----------|--|
| Address | Modified | Match, Parse, and Standardization |
| Address (Full) | Modified | Parse |
| Address (Global) | Modified | Parse |
| Address (Global) (v23) | Modified | Parse |
| Address (PO Box Only) | Modified | Match |
| Address (Street Only) | Modified | Match |
| Address (Street Only) (v22) | Removed | Match |
| Address (v22) | Removed | Match and 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) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Field Name | Modified | Identification Analysis and Match |
| Field Name (v23) | Modified | 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 |
| Proper (Address Number) | Modified | Case |

| Definition Name | Action | Type of Definition |
|-----------------|----------|--------------------|
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

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) | Modified | 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) | Modified | Match |
| 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 |
| Proper (Address Number) | Modified | Case |
| Street Name | Modified | Match |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

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) | Modified | 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 |

| Definition Name | Action | Type of Definition |
|---|----------|--|
| 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) | Modified | Match |
| 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 Propositions) | 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 |
| Proper (Address Number) | Modified | Case |
| State/Province | Modified | Standardization |
| State/Province (Postal Standard) | Modified | Standardization |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

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) | 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 |
| 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 |
| Date (DMY) | Modified | Match, Parse, and Standardization |
| Date (DMY) (with Combinations) | Modified | Match |
| Date (MDY) | Modified | Match, Parse, and Standardization |
| Date (MDY) (with Combinations) | Modified | Match |
| Date (YMD) | Modified | Match, Parse, and Standardization |
| Date/Time (DMY) | Modified | Match and Parse |
| Date/Time (DMY) Basic | Modified | Standardization |
| Date/Time (DMY) Extended | Modified | Standardization |
| Date/Time (MDY) | Modified | Match and Parse |
| Date/Time (MDY) Basic | Modified | Standardization |
| Date/Time (MDY) Extended | Modified | Standardization |
| Date/Time (YMD) | Modified | Match and Parse |
| Date/Time (YMD) Basic | Modified | Standardization |
| Date/Time (YMD) Extended | Modified | Standardization |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Field Name | Modified | Identification Analysis and Match |
| Field Name (v23) | Modified | Identification Analysis |
| Name | Modified | Gender Analysis, Match, Parse, and Standardization |
| Name (Global) | Modified | Parse |
| Name (Multiple Name) | Modified | Parse |
| Name (with Combinations) | Modified | Match |
| Name (with Suggestions) | Modified | Match |
| Organization | Modified | Standardization |
| Phone | Modified | Match, Parse, and Standardization |
| Phone (Electronic) | Modified | Standardization |
| Phone (Global) | Modified | Parse |
| Phone (with Country Code) | Modified | Standardization |
| Proper (Address) | Modified | Case |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

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) | Modified | 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 |
| Country (ISO 3 Char) | Modified | Standardization |
| Country (ISO Number) | Modified | Standardization |
| Country (Internet) | Modified | Standardization |
| Country (Region) | Modified | Standardization |
| Country (Sub-Region) | Modified | Standardization |
| Date (DMY) | Modified | Match, Parse, and Standardization |
| Date (DMY) (with Combinations) | Modified | Match |
| Date (MDY) | Modified | Match, Parse, and Standardization |
| Date (MDY) (with Combinations) | Modified | Match |
| Date (YMD) | Modified | Match, Parse, and Standardization |
| Date/Time (DMY) | Modified | Match and Parse |
| Date/Time (DMY) Basic | Modified | Standardization |
| Date/Time (DMY) Extended | Modified | Standardization |
| Date/Time (MDY) | Modified | Match and Parse |
| Date/Time (MDY) Basic | Modified | Standardization |
| Date/Time (MDY) Extended | Modified | Standardization |
| Date/Time (YMD) | Modified | Match and Parse |
| Date/Time (YMD) Basic | Modified | Standardization |
| Date/Time (YMD) Extended | Modified | Standardization |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Field Name | Modified | Identification Analysis and Match |
| Field Name (v23) | Modified | Identification Analysis |
| Name | Modified | Gender Analysis, Match, Parse, and Standardization |
| Name (Global) | Modified | Parse |
| Name (Multiple Name) | Modified | Parse |
| Name (with Combinations) | Modified | Match |
| Name (with Suggestions) | Modified | Match |
| Organization | Modified | Standardization |

| Definition Name | Action | Type of Definition |
|----------------------------------|----------|-----------------------------------|
| 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 | Parse and Standardization |
| Postal Code (Validation) | Modified | Identification Analysis |
| Postal Code (with Country Code) | Modified | Standardization |
| Proper (Address Number) | Modified | Case |
| State/Province | Modified | Standardization |
| State/Province (Postal Standard) | Modified | Standardization |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

English, Hong Kong

| 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 | Standard |
| Date (DMY) | Modified | Match, Parse, and Standardization |
| Date (DMY) (with Combinations) | Modified | Match |
| Date (MDY) | Modified | Match, Parse, and Standardization |
| Date (MDY) (with Combinations) | Modified | Match |
| Date (YMD) | Modified | Match, Parse, and Standardization |
| Date/Time (DMY) | Modified | Match and Parse |
| Date/Time (DMY) Basic | Modified | Standardization |
| Date/Time (DMY) Extended | Modified | Standardization |
| Date/Time (MDY) | Modified | Match and Parse |
| Date/Time (MDY) Basic | Modified | Standardization |
| Date/Time (MDY) Extended | Modified | Standardization |
| Date/Time (YMD) | Modified | Match and Parse |
| Date/Time (YMD) Basic | Modified | Standardization |
| Date/Time (YMD) Extended | Modified | Standardization |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Field Name | Modified | Identification Analysis and Match |

| Definition Name | Action | Type of Definition |
|--------------------------|----------|--|
| Field Name (v23) | Modified | Identification Analysis |
| Name | Modified | Gender Analysis, Match, Parse, and Standardization |
| Name (Global) | Modified | Parse |
| Name (Multiple Name) | Modified | Parse |
| Name (with Combinations) | Modified | Match |
| Organization | Modified | Standardization |
| Proper (Address) | Modified | Case |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

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) | Modified | Parse |
| City | Modified | 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 (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 |
| Date (DMY) | Modified | Match, Parse, and Standardization |
| Date (DMY) (with Combinations) | Modified | Match |
| Date (MDY) | Modified | Match, Parse, and Standardization |
| Date (MDY) (with Combinations) | Modified | Match |
| Date (YMD) | Modified | Match, Parse, and Standardization |
| Date/Time (DMY) | Modified | Match and Parse |
| Date/Time (DMY) Basic | Modified | Standardization |
| Date/Time (DMY) Extended | Modified | Standardization |
| Date/Time (MDY) | Modified | Match and Parse |
| Date/Time (MDY) Basic | Modified | Standardization |
| Date/Time (MDY) Extended | Modified | Standardization |
| Date/Time (YMD) | Modified | Match and Parse |

| Definition Name | Action | Type of Definition |
|----------------------------|----------|--|
| Date/Time (YMD) Basic | Modified | Standardization |
| Date/Time (YMD) Extended | Modified | Standardization |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Field Name | Modified | Identification Analysis and Match |
| Field Name (v23) | Modified | 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 Combinations) | Modified | Match |
| Name (with Extensions) | Modified | Match and Parse |
| Organization | Modified | Standardization |
| Proper (Address Number) | Modified | Case |
| State | Modified | Standardization |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

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) | Modified | Parse |
| Address (PO Box Only) | Modified | Match |
| Address (PO Box Only) (v22) | Modified | Match |
| Address (Street Only) | Modified | Match |
| Address (Street Only) (v23) | Modified | Match |
| Address (with Preferred Delivery Info) | Modified | 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 (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 |

| Definition Name | Action | Type of Definition |
|--------------------------------|----------|--|
| Country (Sub-Region) | Modified | Standardization |
| Date (DMY) | Modified | Match, Parse, and Standardization |
| Date (DMY) (with Combinations) | Modified | Match |
| Date (MDY) | Modified | Match, Parse, and Standardization |
| Date (MDY) (with Combinations) | Modified | Match |
| Date (YMD) | Modified | Match, Parse, and Standardization |
| Date/Time (DMY) | Modified | Match and Parse |
| Date/Time (DMY) Basic | Modified | Standardization |
| Date/Time (DMY) Extended | Modified | Standardization |
| Date/Time (MDY) | Modified | Match and Parse |
| Date/Time (MDY) Basic | Modified | Standardization |
| Date/Time (MDY) Extended | Modified | Standardization |
| Date/Time (YMD) | Modified | Match and Parse |
| Date/Time (YMD) Basic | Modified | Standardization |
| Date/Time (YMD) Extended | Modified | Standardization |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Field Name | Modified | Identification Analysis and Match |
| Field Name (v23) | Modified | Identification Analysis |
| Name | Modified | Gender Analysis, Match, Parse, and Standardization |
| Name (Global) | Modified | Parse |
| Name (Multiple Name) | Modified | Parse |
| Name (with Combinations) | Modified | Match |
| Name (with Suggestions) | Modified | Match |
| Organization | Modified | Standardization |
| Phone | Modified | Identification Analysis, Match, Parse, and Standardization |
| Phone (Electronic) | Modified | Standardization |
| Phone (Global) | Modified | Parse |
| Phone (with Country Code) | Modified | Standardization |
| Proper (Address) | Modified | Case |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

English, South Africa

| Definition Name | Action | Type of Definition |
|------------------------|----------|--------------------|
| Address (Global) | Modified | Parse |
| Address (Global) (v23) | Modified | Parse |
| City | 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 |
| Date (DMY) | Modified | Match, Parse, and Standardization |
| Date (DMY) (with Combinations) | Modified | Match |
| Date (MDY) | Modified | Match, Parse, and Standardization |
| Date (MDY) (with Combinations) | Modified | Match |
| Date (YMD) | Modified | Match, Parse, and Standardization |
| Date/Time (DMY) | Modified | Match and Parse |
| Date/Time (DMY) Basic | Modified | Standardization |
| Date/Time (DMY) Extended | Modified | Standardization |
| Date/Time (MDY) | Modified | Match and Parse |
| Date/Time (MDY) Basic | Modified | Standardization |
| Date/Time (MDY) Extended | Modified | Standardization |
| Date/Time (YMD) | Modified | Match and Parse |
| Date/Time (YMD) Basic | Modified | Standardization |
| Date/Time (YMD) Extended | Modified | Standardization |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Field Name | Modified | Identification Analysis and Match |
| Field Name (v23) | Modified | Identification Analysis |
| ID Number | Modified | Gender Analysis |
| Name | Modified | Gender Analysis, Match, Parse, and Standardization |
| Name (Global) | Modified | Parse |
| Name (Multiple Name) | Modified | Parse |
| Name (with Combinations) | Modified | Match |
| Organization | Modified | Standardization |
| Proper (Address) | Modified | Case |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

English, United Kingdom

| Definition Name | Action | Type of Definition |
|--|----------|--|
| Address | Modified | Standardization |
| Address (Full) | Modified | Match |
| Address (Full) (2011A) | Removed | Match |
| Address (Full) (with Combinations) | Modified | Match |
| Address (Global) | Modified | Parse |
| Address (Global) (v23) | Modified | 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 |
| Date (DMY) | Modified | Match, Parse, and Standardization |
| Date (DMY) (with Combinations) | Modified | Match |
| Date (MDY) | Modified | Match, Parse, and Standardization |
| Date (MDY) (with Combinations) | Modified | Match |
| Date (YMD) | Modified | Match, Parse, and Standardization |
| Date/Time (DMY) | Modified | Match and Parse |
| Date/Time (DMY) Basic | Modified | Standardization |
| Date/Time (DMY) Extended | Modified | Standardization |
| Date/Time (MDY) | Modified | Match and Parse |
| Date/Time (MDY) Basic | Modified | Standardization |
| Date/Time (MDY) Extended | Modified | Standardization |
| Date/Time (YMD) | Modified | Match and Parse |
| Date/Time (YMD) Basic | Modified | Standardization |
| Date/Time (YMD) Extended | Modified | Standardization |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Field Name | Modified | Identification Analysis and Match |
| Field Name (v23) | Modified | Identification Analysis |
| Name | Modified | Gender Analysis, Match, Parse, and Standardization |
| Name (Global) | Modified | Parse |
| Name (Multiple Name) | Modified | Parse |
| Name (with Combinations) | Modified | Match |
| Name (with Suggestions) | Modified | Match |

| Definition Name | Action | Type of Definition |
|---------------------------------|----------|--|
| Organization | 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 (Validation) | Modified | Identification Analysis |
| Postal Code (with Country Code) | Modified | Standardization |
| Proper (Address) | Modified | Case |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

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) | Modified | Parse |
| Address (Long) | Modified | Match |
| Address (v22) | Removed | Match, Parse, and Standardization |
| City | Modified | 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 |
| Contact Info (v22) | Removed | 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 |
| Date (DMY) | Modified | Match, Parse, and Standardization |
| Date (DMY) (with Combinations) | Modified | Match |
| Date (MDY) | Modified | Match, Parse, and Standardization |
| Date (MDY) (with Combinations) | Modified | Match |
| Date (YMD) | Modified | Match, Parse, and Standardization |
| Date/Time (DMY) | Modified | Match and Parse |

| Definition Name | Action | Type of Definition |
|----------------------------|----------|--|
| Date/Time (DMY) Basic | Modified | Standardization |
| Date/Time (DMY) Extended | Modified | Standardization |
| Date/Time (MDY) | Modified | Match and Parse |
| Date/Time (MDY) Basic | Modified | Standardization |
| Date/Time (MDY) Extended | Modified | Standardization |
| Date/Time (YMD) | Modified | Match and Parse |
| Date/Time (YMD) Basic | Modified | Standardization |
| Date/Time (YMD) Extended | Modified | Standardization |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Field Name | Modified | Identification Analysis and Match |
| Field Name (v23) | Modified | Identification Analysis |
| Name | Modified | Gender Analysis, Match, Parse, and Standardization |
| Name (Global) | Modified | Parse |
| Name (Multiple Name) | Modified | Parse |
| Name (with Combinations) | Modified | Match |
| Name (with Suggestions) | Modified | Match |
| Name/Organization | Modified | Parse |
| Organization | Modified | 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 (Address) | Modified | Case |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

Finnish, Finland

| Definition Name | Action | Type of Definition |
|-------------------------------------|----------|-----------------------------------|
| Address | Modified | Standardization |
| Address (Full) | Modified | Match and Standardization |
| Address (Global) | Modified | Parse |
| Address (Global) (v23) | Modified | Parse |
| City | Modified | Match |
| City - State/Province - Postal Code | Modified | Match and Standardization |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Name | Modified | Match and Standardization |
| Name (No Translation) | Modified | Standardization |

| Definition Name | Action | Type of Definition |
|---------------------------|----------|---------------------------|
| Name (Swedish) | Modified | Standardization |
| Organization | Modified | Match and Standardization |
| Phone | Modified | Standardization |
| Phone (with Country Code) | Modified | Standardization |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

French, Belgium

| Definition Name | Action | Type of Definition |
|--|----------|--|
| Address | Modified | Match, Parse, and Standardization |
| Address (Full) | Modified | Parse |
| Address (Global) | Modified | Parse |
| Address (Global) (v23) | Modified | 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) | Modified | Match |
| 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 |
| Proper (Address Number) | Modified | Case |
| Street Name | Modified | Match |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

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) | Modified | 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 |
| City - State/Province - Postal Code (International) | Modified | Standardization |
| 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 |
| Date (DMY) | Modified | Match, Parse, and Standardization |
| Date (DMY) (with Combinations) | Modified | Match |
| Date (MDY) | Modified | Match, Parse, and Standardization |
| Date (MDY) (with Combinations) | Modified | Match |
| Date (YMD) | Modified | Match, Parse, and Standardization |
| Date/Time (DMY) | Modified | Match and Parse |
| Date/Time (DMY) Basic | Modified | Standardization |
| Date/Time (DMY) Extended | Modified | Standardization |
| Date/Time (MDY) | Modified | Match and Parse |
| Date/Time (MDY) Basic | Modified | Standardization |
| Date/Time (MDY) Extended | Modified | Standardization |
| Date/Time (YMD) | Modified | Match and Parse |
| Date/Time (YMD) Basic | Modified | Standardization |
| Date/Time (YMD) Extended | Modified | Standardization |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Field Name | Modified | Identification Analysis and Match |
| Field Name (v23) | Modified | Identification Analysis |
| Name | Modified | Gender Analysis, Match, Parse, and Standardization |
| Name (Global) | Modified | Parse |
| Name (Multiple Name) | Modified | Parse |
| Name (with Combinations) | Modified | Match |
| Name (with Suggestions) | Modified | Match |
| Organization | Modified | 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 | Parse and Standardization |

| Definition Name | Action | Type of Definition |
|----------------------------------|----------|-------------------------|
| Postal Code (Validation) | Modified | Identification Analysis |
| Postal Code (with Country Code) | Modified | Standardization |
| Proper (Address Number) | Modified | Case |
| State/Province | Modified | Standardization |
| State/Province (Postal Standard) | Modified | Standardization |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

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) | 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 |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v22) | Removed | Match |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Field Name | Modified | Identification Analysis and Match |
| Field Name (v23) | Modified | 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 |

| Definition Name | Action | Type of Definition |
|---------------------------|----------|--------------------|
| Phone (with Country Code) | Modified | Standardization |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

German, Germany

| Definition Name | Action | Type of Definition |
|--|----------|--|
| Address | Modified | Match, Parse, and Standardization |
| Address (Global) | Modified | Parse |
| Address (Global) (v23) | 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 |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Field Name | Modified | Identification Analysis and Match |
| Field Name (v23) | Modified | 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 |
| Proper (Address Number) | Modified | Case |
| Text | Modified | Match |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

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) | 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 |
| City - State/Province - Postal Code (International) | Modified | Standardization |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| ID Card Number | Modified | Identification Analysis |
| Island | Modified | 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 |
| Proper (Address Number) | Modified | Case |
| State/Province | Modified | Standardization |
| State/Province (Postal Standard) | Modified | Standardization |
| Tax ID | Modified | Parse and Standardization |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

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) | Modified | 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 (International) | Modified | Standardization |
| Date (DMY) | Modified | Match, Parse, and Standardization |
| Date (DMY) (with Combinations) | Modified | Match |
| Date (MDY) | Modified | Match, Parse, and Standardization |
| Date (MDY) (with Combinations) | Modified | Match |
| Date (YMD) | Modified | Match, Parse, and Standardization |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Field Name | Modified | Identification Analysis and Match |
| Field Name (v23) | Modified | 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 |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

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) | Modified | Parse |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| 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 |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

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) | Modified | 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) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Name | Modified | Gender Analysis, Match, Parse, and Standardization |
| Name (Global) | Modified | Parse |

| Definition Name | Action | Type of Definition |
|-----------------------------------|----------|-----------------------------------|
| 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 |
| 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 |
| Proper (Address Number) | Modified | Case |
| State/Province | Modified | Match and Standardization |
| State/Province (Postal Standard) | Modified | Standardization |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

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) | 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 | Modified | Match |
| Date (Japanese Calendar) | Modified | Standardization |
| Date (Western Calendar) | Modified | Standardization |
| E-mail | Modified | Match |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Individual/Organization | Modified | Identification Analysis |
| Organization | Modified | Match, Parse, and Standardization |
| Organization (Global) | Modified | Parse |
| Phone | Modified | Standardization |

| Definition Name | Action | Type of Definition |
|---------------------------|----------|--------------------|
| Phone (with Country Code) | Modified | Standardization |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

Korean, South Korea

| Definition Name | Action | Type of Definition |
|----------------------------|----------|--|
| Address (Global) | Modified | Parse |
| Address (Global) (v23) | Modified | Parse |
| E-mail | Modified | Identification Analysis, Match, Parse, and Standardization |
| E-mail (Multiple Address) | Modified | Parse |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

Malay, Malaysia

| Definition Name | Action | Type of Definition |
|--|----------|--|
| Address | Modified | Standardization |
| Address (Global) | Modified | Parse |
| Address (Global) (v23) | Modified | 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) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Name | Modified | Gender Analysis, Match, Parse, and Standardization |
| Name (Global) | Modified | Parse |
| Organization | Modified | Match, Parse, and Standardization |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

Norwegian, Norway

| 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) | Modified | Parse |
| Address (Neighbourhood) | 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) | Modified | Match |
| 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 |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

Polish, Poland

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

| Definition Name | Action | Type of Definition |
|-------------------------|----------|--------------------|
| Phone (Global) | Modified | Parse |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

Portuguese, Brazil

| Definition Name | Action | Type of Definition |
|---|----------|--|
| Accent and Space Normalization | Removed | Standardization |
| Address | Modified | Match, Parse, and Standardization |
| Address (Abbreviated Street Type and Title) | Modified | Standardization |
| Address (Detailed) | Modified | Parse |
| Address (Full) | New | Match |
| Address (Full) | Modified | Parse |
| Address (Full) (Detailed) | Modified | Parse |
| Address (Global) | Removed | Match |
| Address (Global) | Modified | Parse |
| Address (Global) (v23) | Modified | Parse |
| Address (PO Box Only) | Modified | Match |
| Address (Street Only) | Modified | Match |
| Address (v23) | Modified | Match and Parse |
| Blank Removal | Removed | Standardization |
| City - State/Province - Postal Code | Modified | Match, Parse, and Standardization |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Generic Letter Marker | Removed | Standardization |
| Generic Number Marker | Removed | Standardization |
| Generic Number/Letter Marker | Removed | Standardization |
| ID Number (CNPJ) | Modified | Standardization |
| ID Number (CPF) | Modified | Standardization |
| Name | Modified | Gender Analysis, Match, Parse, and Standardization |
| Name (Expanded Prefix) | Modified | Standardization |
| Name (Global) | Modified | Parse |
| Name (v22) | Removed | Parse |
| Name (v24) | New | Gender Analysis and Match |
| Name/Organization | Modified | Identification Analysis |
| Offensive | Modified | Identification Analysis |
| Phone | Modified | Match, Parse, and Standardization |
| Phone (Detailed) | Modified | Parse |
| Phone (Electronic) | Modified | Standardization |
| Phone (Global) | Modified | Parse |

| Definition Name | Action | Type of Definition |
|---------------------------|----------|--------------------|
| Phone (v22) | Removed | Parse |
| Phone (v23) | Modified | Match |
| Phone (with Country Code) | Modified | Standardization |
| Proper (Address Number) | Modified | Case |
| Standard Uppercase | Removed | Standardization |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

Portuguese, Portugal

| Definition Name | Action | Type of Definition |
|--|----------|-----------------------------------|
| Address | Modified | Match and Standardization |
| Address (Full) | Modified | Parse |
| Address (Global) | Modified | Parse |
| Address (Global) (v23) | Modified | 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) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Organization | Modified | Match and Standardization |
| Phone | Modified | Match, Parse, and Standardization |
| Phone (Global) | Modified | Parse |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

Russian, Russia

| Definition Name | Action | Type of Definition |
|----------------------------|----------|-----------------------------------|
| Address (Global) | Modified | Parse |
| Address (Global) (v23) | Modified | Parse |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Name | Modified | Match |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

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) | Modified | Parse |
| Address (PO Box Only) | Modified | Match |
| Address (Street Only) | Modified | Match |
| Birth Number | Modified | Gender Analysis, Parse, and Standardization |
| City | Modified | 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) | Modified | Match |
| 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 |
| Postal Code | Modified | Standardization |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

Spanish, Mexico

| Definition Name | Action | Type of Definition |
|--|----------|---|
| Address | Modified | Locale Guess, Match, Parse, and Standardization |
| Address (Full) | New | Match |
| Address (Full) | Modified | Parse |
| Address (Global) | Modified | Parse |
| Address (Global) (v23) | Modified | Parse |
| Address (PO Box Only) | New | Match |
| Address (Street Only) | New | Match |
| Address (v23) | Modified | Parse |
| Address (v24) | New | Match 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 |

| Definition Name | Action | Type of Definition |
|--|----------|--|
| Country | Modified | Locale Guess |
| CURP | New | Gender Analysis |
| CURP (Validation) | New | Identification Analysis |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |
| Individual/Organization | Modified | Identification Analysis |
| Individual/Organization (RFC) | New | Identification Analysis |
| Name | Modified | Gender Analysis, Match, Parse, and Standardization |
| Name (Global) | Modified | Parse |
| Name (v23) | Modified | Parse |
| Name (v24) | New | Match and Standardization |
| Organization (Global) | New | Parse |
| Organization (v24) | New | Parse |
| Phone | Modified | Match, Parse, and Standardization |
| Phone (Basic) | Modified | Standardization |
| Phone (Global) | Modified | Parse |
| Phone (IFETEL) | Modified | Parse |
| Phone (v23) | Modified | Parse |
| Postal Code | Modified | Match and Standardization |
| Proper (Address) | Modified | Case |
| Proper (Address Number) | Modified | Case |
| Proper (City - State/Province - Postal Code) | Modified | Case |
| Proper (Name) | Modified | Case |
| Proper (Organization) | Modified | Case |
| Text | Modified | Match |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

Spanish, Spain

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

| Definition Name | Action | Type of Definition |
|---------------------------|----------|-----------------------------------|
| Phone | Modified | Match, Parse, and Standardization |
| Phone (Electronic) | Modified | Standardization |
| Phone (Global) | Modified | Parse |
| Phone (with Country Code) | Modified | Standardization |
| Proper (Address Number) | Modified | Case |
| Text | Modified | Match |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

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) | 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 |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| 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 |
| Postal Code | Modified | Standardization |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

Thai, Thailand

| Definition Name | Action | Type of Definition |
|----------------------------|----------|-----------------------------------|
| Address (Global) | Modified | Parse |
| Address (Global) (v23) | Modified | Parse |
| E-mail | Modified | Match, Parse, and Standardization |
| E-mail (v23) | Modified | Match |
| E-mail (with Combinations) | Modified | Match |

| Definition Name | Action | Type of Definition |
|-------------------------|----------|--------------------|
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

Turkish, Turkey

| Definition Name | Action | Type of Definition |
|--|----------|-----------------------------------|
| Address | Modified | Match, Parse, and Standardization |
| Address (Full) | Modified | Parse |
| Address (Full) (v23) | Modified | Parse |
| Address (Global) | Modified | Parse |
| Address (Global) (v23) | Modified | Parse |
| Address (v23) | Modified | 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) | Modified | Match |
| 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) | Modified | Match |
| Phone | Modified | Match, Parse, and Standardization |
| Phone (Global) | Modified | Parse |
| Proper (Address Number) | Modified | Case |
| URL | Modified | Standardization |
| Website | Modified | Standardization |
| Word | Modified | Pattern Analysis |

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:

Portuguese, Brazil

| Definition Name | Type of Definition |
|-----------------|--------------------|
| Address | Match |

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.