



# What's New in **SAS<sup>®</sup> Quality Knowledge Base for Contact Information 33**

SAS<sup>®</sup> Documentation



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# TOC

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<b>What's New in SAS Quality Knowledge Base for Contact Information 33</b>	<b>2</b>
Overview	2
QKB Locales	2
Changes in the QKB	3
Known Problems	39

# What's New in SAS Quality Knowledge Base for Contact Information 33

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 QKB for Contact Information (CI) 33.

- [Overview](#)
- [QKB Locales](#)
- [Changes in the QKB](#)
- [Known Problems](#)

See the SAS QKB CI 33 online Help for additional information. For information about previous releases, see the SAS QKB product page at <https://support.sas.com/en/software/quality-knowledge-base-support.html>.

## Overview

SAS QKB CI 33 includes updates for the following locales and definitions:

Arabic, Egypt; Czech, Czech Republic; Danish, Denmark; English, Canada; English, United Kingdom; English, United States; Finnish, Finland; French, Canada; French, France; Greek, Greece; Hindi, India; Korean, Korea; Norwegian, Norway; Persian, Iran; Swedish, Sweden; Vietnamese, Vietnam

- Field Content identification analysis definition updated

All Locales

- Field Content (Global) identification analysis definition added
- Field Name identification analysis definition updated

## QKB Locales

This release includes the following locales:

Afrikaans, South Africa	English, United States	Persian, Iran
Arabic, Egypt	Finnish, Finland	Polish, Poland
Chinese, China	French, Belgium	Portuguese, Brazil
Croatian, Croatia	French, Canada	Portuguese, Portugal
Czech, Czech Republic	French, France	Romanian, Romania
Danish, Denmark	German, Germany	Russian, Russia
Dutch, Belgium	Greek, Greece	Slovak, Slovakia
Dutch, Netherlands	Hebrew, Israel	Slovenian, Slovenia
English, Australia	Hindi, India	Spanish, Argentina
English, Canada	Hungarian, Hungary	Spanish, Mexico
English, Hong Kong	Indonesian, Indonesia	Spanish, Spain
English, India	Italian, Italy	Tagalog, Philippines
English, New Zealand	Japanese, Japan	Thai, Thailand
English, Philippines	Kazakh, Kazakhstan	Turkish, Turkey
English, Singapore	Korean, South Korea	Ukrainian, Ukraine
English, South Africa	Malay, Malaysia	Vietnamese, Vietnam
English, United Kingdom	Norwegian, Norway	

## Changes in the QKB

This section is organized by locale. Tables display the deprecations and enhancements made in this QKB. In some cases, changes to your data job are required. The [Deprecation Actions](#) section describes the actions that are necessary to keep data quality jobs functioning properly. The deprecation process is fully described in the **Deprecation Policy** topic in the SAS QKB online Help documentation. Definitions with a status of Added or Modified do not require changes to data jobs. See the online Help for details about these definitions.

If a locale shows **None**, it means that no changes were made to the locale.

Definition Name	Definition Type	Status	Action If Job Change Required
Afrikaans, South Africa			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Country (Region)	Standardization	Enhanced	No action required.
Country (Sub-Region)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (DMY) (with Combinations)	Match	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY) (with Combinations)	Match	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Arabic, Egypt			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Num-ber)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Ana-lysis	New	No action required.
Field Name	Identification Ana-lysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Chinese, China			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Num-ber)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Czech, Czech Republic			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Danish, Denmark			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.



Definition Name	Definition Type	Status	Action If Job Change Required
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content	Identification Analysis	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Dutch, Belgium			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content	Identification Analysis	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Dutch, Netherlands			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH

Definition Name	Definition Type	Status	Action If Job Change Required
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
English, Australia			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Country (Region)	Standardization	Enhanced	No action required.
Country (Sub-Region)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (DMY) (with Combinations)	Match	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY) (with Combinations)	Match	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
English, Canada			

Definition Name	Definition Type	Status	Action If Job Change Required
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Country (Region)	Standardization	Enhanced	No action required.
Country (Sub-Region)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (DMY) (with Combinations)	Match	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY) (with Combinations)	Match	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content	Identification Analysis	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
English, Hong Kong			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Num-ber)	Standardization	Enhanced	No action required.
Country (Region)	Standardization	Enhanced	No action required.
Country (Sub-Region)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (DMY) (with Combinations)	Match	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY) (with Combinations)	Match	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Ana-lysis	New	No action required.
Field Name	Identification Ana-lysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identi-fication)	Pattern Analysis	Enhanced	No action required.
English, India			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Country (Region)	Standardization	Enhanced	No action required.
Country (Sub-Region)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (DMY) (with Combinations)	Match	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY) (with Combinations)	Match	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
English, New Zealand			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Country (Region)	Standardization	Enhanced	No action required.
Country (Sub-Region)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (DMY) (with Combinations)	Match	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY) (with Combinations)	Match	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
<b>English, Philippines</b>			
Address	Parse	Enhanced	No action required.
Address (Detailed)	Parse	Enhanced	No action required.
Address (Full)	Parse	Enhanced	No action required.
Address (Global)	Parse	Enhanced	No action required.
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
City - State/Province - Postal Code	Parse	Enhanced	No action required.
City - State/Province - Postal Code (Global)	Parse	Enhanced	No action required.
Country	Match	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Num-ber)	Standardization	Enhanced	No action required.
Country (Region)	Standardization	Enhanced	No action required.
Country (Sub-Region)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (DMY) (with Combinations)	Match	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY) (with Combinations)	Match	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Ana-lysis	New	No action required.
Field Name	Identification Ana-lysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Name	Parse	Enhanced	No action required.
Name (Global)	Parse	Enhanced	No action required.
Phone	Parse	Enhanced	No action required.
Phone (Global)	Parse	Enhanced	No action required.
Tax ID	Parse	Enhanced	No action required.
Word (Script Iden-tification)	Pattern Analysis	Enhanced	No action required.
English, Singapore			



Definition Name	Definition Type	Status	Action If Job Change Required
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Country (Region)	Standardization	Enhanced	No action required.
Country (Sub-Region)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (DMY) (with Combinations)	Match	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY) (with Combinations)	Match	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
English, South Africa			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Num-ber)	Standardization	Enhanced	No action required.
Country (Region)	Standardization	Enhanced	No action required.
Country (Sub-Region)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (DMY) (with Combinations)	Match	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY) (with Combinations)	Match	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Ana-lysis	New	No action required.
Field Name	Identification Ana-lysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Iden-tification)	Pattern Analysis	Enhanced	No action required.
English, United Kingdom			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Country (ISO Number)	Standardization	Enhanced	No action required.
Country (Region)	Standardization	Enhanced	No action required.
Country (Sub-Region)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (DMY) (with Combinations)	Match	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY) (with Combinations)	Match	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content	Identification Analysis	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
English, United States			
Address	Parse	Enhanced	No action required.
Address (Detailed)	Parse	Enhanced	No action required.
Address (Global)	Parse	Enhanced	No action required.
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Contact Info	Identification Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Num-ber)	Standardization	Enhanced	No action required.
Country (Region)	Standardization	Enhanced	No action required.
Country (Sub-Region)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (DMY) (with Combinations)	Match	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY) (with Combinations)	Match	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content	Identification Ana-lysis	Enhanced	No action required.
Field Content (Global)	Identification Ana-lysis	New	No action required.
Field Name	Identification Ana-lysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identi-fication)	Pattern Analysis	Enhanced	No action required.
Finnish, Finland			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
French, Belgium			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Field Content	Identification Analysis	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
French, Canada			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Country (Region)	Standardization	Enhanced	No action required.
Country (Sub-Region)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (DMY) (with Combinations)	Match	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY) (with Combinations)	Match	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content	Identification Analysis	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
<b>French, France</b>			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content	Identification Analysis	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
<b>German, Germany</b>			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content	Identification Analysis	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Greek, Greece			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.



Definition Name	Definition Type	Status	Action If Job Change Required
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
<b>Hebrew, Israel</b>			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (DMY) (with Combinations)	Match	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY) (with Combinations)	Match	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Hungarian, Hungary			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Italian, Italy			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content	Identification Analysis	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
<b>Japanese, Japan</b>			
Address (Full)	Parse	Enhanced	No action required.
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Organization	Match	Enhanced	No action required.
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Korean, South Korea			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Malay, Malaysia			

Definition Name	Definition Type	Status	Action If Job Change Required
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Norwegian, Norway			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content	Identification Analysis	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Polish, Poland			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH

Definition Name	Definition Type	Status	Action If Job Change Required
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
<b>Portuguese, Brazil</b>			
Address (Detailed)	Parse	Enhanced	No action required.
Address (Full)	Match and Parse	Enhanced	No action required.
Address (Full) (Detailed)	Parse	Enhanced	No action required.
City - State/Province - Postal Code	Parse	Enhanced	No action required.
City - State/Province - Postal Code (Global)	Parse	Enhanced	No action required.
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Portuguese, Portugal			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Romanian, Romania			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.



Definition Name	Definition Type	Status	Action If Job Change Required
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Russian, Russia			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH

Definition Name	Definition Type	Status	Action If Job Change Required
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
<b>Slovak, Slovakia</b>			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
<b>Slovenian, Slovenia</b>			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Spanish, Argentina			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH

Definition Name	Definition Type	Status	Action If Job Change Required
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Spanish, Mexico			
Address	Parse	Enhanced	No action required.
Address (Detailed)	Parse	Enhanced	No action required.
Address (Full)	Parse	Enhanced	No action required.
City - State/Province - Postal Code	Parse	Enhanced	No action required.
City - State/Province - Postal Code (Global)	Parse	Enhanced	No action required.
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Spanish, Spain			

Definition Name	Definition Type	Status	Action If Job Change Required
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Swedish, Sweden			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.

Definition Name	Definition Type	Status	Action If Job Change Required
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content	Identification Analysis	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Thai, Thailand			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names: YEAR, WEEK, and MONTH

Definition Name	Definition Type	Status	Action If Job Change Required
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.
Turkish, Turkey			
Character (Script Identification)	Pattern Analysis	Enhanced	No action required.
Country	Match	Enhanced	No action required.
Country (ISO 2 Char)	Standardization	Enhanced	No action required.
Country (ISO 3 Char)	Standardization	Enhanced	No action required.
Country (ISO Number)	Standardization	Enhanced	No action required.
Date (DMY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (MDY)	Match, Parse, and Standardization	Enhanced	No action required.
Date (YMD)	Match, Parse, and Standardization	Enhanced	No action required.
Field Content (Global)	Identification Analysis	New	No action required.
Field Name	Identification Analysis	Enhanced	Handle new Identity names:  YEAR, WEEK, and MONTH
Word (Script Identification)	Pattern Analysis	Enhanced	No action required.

## Deprecation Actions

### Discontinue use

This definition is no longer supported and will be removed in a future release.

### Replace with

This definition is no longer supported and will be removed in a future release. Switch any jobs that use this definition to use the replacement definition specified.

## Modify jobs or the QKB to use the desired definition

Each definition that has been enhanced also has a copy of the original version. The original definition is tagged and deprecated to be replaced by an enhanced definition that requires job changes. The required job changes for the enhanced definition are described in the Deprecation Action section. Users can do one of the following three options:

1. Modify their jobs to fit the new definition.
2. Modify their jobs to use the old QKB.
3. Modify the QKB by removing or renaming the new definition and then untag the old definition.

Users are encouraged to modify their jobs to take advantage of the enhanced processing.

## Modify jobs to use the updated definition

1. Identity names have changed

The identity names of the definition have changed. This change requires an update to jobs that use the definition so that the identity names that are specified in those jobs match the names in the definition.

2. Preparsed input changes

Certain data quality functions expect input data that has been previously parsed. In SAS Data Quality Server, these functions are DQGENDERPARSED and DQMATCHPARSED. In DataFlux Data Management Studio, the nodes are Gender Analysis (Parsed), Standardization (Parsed), and Match Codes (Parsed).

- Definition no longer accepts preparsed input  
If this definition is called by any of the preparsed input data quality functions or nodes, change it to use the corresponding function or node that does not expect preparsed input and provide the input as a single field. Jobs using functions or nodes without PARSED or (Parsed) do not require an update.
- Preparsed input tokens have changed  
If this definition is called by any of the preparsed input data quality functions or nodes, change the mapping of the input fields to the tokens used by the enhanced definition. Jobs using functions or nodes without PARSED or (Parsed) do not require an update.

3. Output tokens have changed

Update jobs using the definition so that the output tokens of the enhanced definition are expected by those jobs.

4. Match code length has increased

Check any jobs using the definition to ensure that the match code fields can accommodate a match code with the new length.



# Known Problems

- Due to the variety and complexity of input data, such as full addresses and long numeric strings, jobs using Field Content identification definitions might take a long time to complete.
- Due to the complexity of full addresses, jobs using **Address (Full)** match, parse, and standardization definitions might take a long time to complete.
- 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 multiple locales are selected, the QKB installer for Windows might overestimate the amount of disk space that is required to complete the installation.

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