



**DATAFLUX**  
data management

# What's New in DataFlux<sup>®</sup> Quality Knowledge Base for Contact Information 2012A



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# What's New in Quality Knowledge Base for Contact Information 2012A

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This document explains the changes in DataFlux Quality Knowledge Base (QKB) for Contact Information (CI) 2012A.

- [Overview](#)
- [Locale Support](#)
- [Deprecations](#)
- [Enhancements](#)
- [Pre-parsed Input](#)

See the QKB CI online help for additional information.

## Overview

QKB CI 2012A contains extensive updates for these locales:

- English, Canada
- French, Canada
- French, France

Support has been updated for "Name" and "Organization" definitions for the following locales:

- Afrikaans, South Africa
- English, Australia
- English, Canada
- English, India
- English, New Zealand
- English, South Africa
- English, United Kingdom
- English, United States

In addition, various enhancements and bug fixes have been added across other locales.

See the [Enhancements](#) section for a detailed 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, and/or removed in this release.

Note that in this release, the ability for some definitions to accept pre-parsed input has been removed. See the [Pre-parsed Input](#) section for details.

Be aware that the file format of libraries in this release differs from the file format of libraries in releases earlier than CI 2010B. Therefore, it is not possible to merge QKB CI 2012A into any QKB that was released prior to QKB CI 2010B. It is possible, however, to merge an earlier QKB into QKB CI 2012A after installing into a separate location. See the "Merging with an Earlier QKB" section in the online help for details.

See the "Configuration Settings" section in the online help for recommendations regarding software settings to be used with definitions in this QKB.

## Locale Support

This release includes support for the following locales:

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

## Deprecations

DataFlux deprecates QKB definitions that are scheduled to be removed or renamed. We also deprecate definitions that use output tokens that are scheduled to be removed or renamed. Deprecated definitions are retained in the QKB for one release and 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 that uses an updated or renamed token list.

For example, you might see definitions like the following in this release:

```
Phone
Phone (2012A)
```

These names indicate that the "Phone" definition will be replaced by the "Phone (2012A)" definition in a subsequent release. In that subsequent release, the "Phone" definition is replaced by the "Phone (2012A)" definition. The name remains simply "Phone", however. The definition with the version tag in its name, "Phone (2012A)", is then deprecated and removed in the following release:

```
Phone
Phone (2012A) --> Phone
Phone (2012A) --> Phone (2012A) <deprecated>
```

The deprecated "Phone (2012A)" definition will then be removed in a future release.

The following is a list of definitions that were affected by this deprecation policy in the 2011A or 2012A release.

```
*****
****      Legend for Type of Deprecated Definitions:      ****
****      Add      Definition added                        ****
****      Depr    Definition deprecated in this release   ****
****      Repl   Definition replaced in this release     ****
****      Same   Definition not changed in this release  ****
****      P      Parse Definition                        ****
****      M      Match Definition                       ****
****      S      Standardization Definition             ****
****      G      Gender Analysis Definition             ****
****      I      Identification Definition              ****
****      C      Case Definition                        ****
****      A      Pattern Analysis Definition            ****
****      E      Extraction Definition                  ****
****      N      Language Guess Definition              ****
****      L      Locale Guess Definition                 ****
*****
```

Notes on legend:

- Definitions marked "Add" are new definitions with updated tokens, matchcode lengths, or definition name changes. We recommend that you replace calls to current definitions with calls to the newly added definitions in all jobs. Note that names of newly added definitions often include a version tag such as "(2012A)".
- Definitions marked "Depr" are deprecated and will be removed or replaced in a future release. Note that names of deprecated definitions often include a version tag such as "(2011A)". We recommend that you remove calls to deprecated definitions and replace them with calls to the replacement definitions.
- Definitions marked "Repl" are definitions that are replaced by a copy of another definition, but have retained their original name. Since definitions that are replaced often have new or different tokens or matchcode lengths, you might need to update your job to use the enhancements if your job calls a definition that is replaced.
- Definitions marked "Same" are definitions that have not been significantly changed in this release but are related to added or deprecated definitions.

Locale	Action	Type of Definition
Afrikaans, South Africa		
Individual/Organization (2011A)	Depr	I
Individual/Organization	Repl	I
Locale Code	Depr	L
Country	Same	L
Name (2011A)	Depr	S
Name	Same	S
Name (2011A)	Depr	P M G
Name	Repl	P M G
Arabic, Egypt		
Locale Code	Depr	L
Country	Same	L
Chinese, China		
Locale Code	Depr	L
Country	Same	L
Czech, Czech Republic		
Individual/Organization (2009A)	Depr	I
Individual/Organization	Same	I
Locale Code	Depr	L
Country	Same	L
Danish, Denmark		
Locale Code	Depr	L
Country	Same	L
Name (Matching)	Depr	P
Name	Same	P
Dutch, Belgium		
Locale Code	Depr	L
Country	Same	L

Dutch, Netherlands					
Locale Code	Depr				L
Country	Same				L
English, Australia					
Individual/Organization (2011A)	Depr			I	
Individual/Organization	Repl			I	
Locale Code	Depr				L
Country	Same				L
Name (2011A)	Depr	P	M	S	G
Name	Repl	P	M	S	G
English, Canada					
Address	Depr	P	M		
Address (2012A)	Add	P	M		
Locale Code	Depr				L
Country	Same				L
City	Depr		M		
City (2012A)	Add		M		
City - State/Province - Postal Code	Depr	P	M		
City - State/Province - Postal Code (2012A)	Add	P	M		
City (Scheme Build)	Depr		M		
Individual/Organization (2011A)	Depr				I
Individual/Organization	Repl				I
Name (2011A)	Depr	P	M	S	G
Name	Repl	P	M	S	G
Phone	Depr	P	M		
Phone (2012A)	Add	P	M		
Postal Code	Depr		M		
Postal Code (2012A)	Add		M		
Proper (State/Province)	Depr				C
State/Province (Full Name)	Depr		S		
State/Province	Add		S		
State/Province (Abbreviation)	Depr		S		
State/Province (Postal Standard)	Add		S		
Text (Scheme Build)	Depr		M		
English, Hong Kong					
Locale Code	Depr				L
Country	Same				L
Individual/Organization (2011A)	Depr			I	
Individual/Organization	Repl			I	
Name (2011A)	Depr	P	M	S	G
Name	Same	P	M	S	G
English, India					
Locale Code	Depr				L
Country	Same				L
Individual/Organization (2011A)	Depr			I	

Individual/Organization	Repl				I	
Name (2011A)	Depr	P	M	S	G	
Name	Same	P	M	S	G	
English, New Zealand						
Locale Code	Depr					L
Country	Same					L
Individual/Organization (2011A)	Depr					I
Individual/Organization	Repl					I
Name (2011A)	Depr	P	M	S	G	
Name	Repl	P	M	S	G	
Phone (2011A)	Depr	P	M			I
Phone	Repl	P	M			I
Text (Scheme Build)	Depr		M			
English, South Africa						
Locale Code	Depr					L
Country	Same					L
Individual/Organization (2011A)	Depr					I
Individual/Organization	Repl					I
Name (2011A)	Depr	P	M	S	G	
Name	Repl	P	M	S	G	
Organization (2011A)	Depr	P				
Organization	Repl	P				
English, United Kingdom						
Locale Code	Depr					L
Country	Same					L
Individual/Organization (2011A)	Depr					I
Individual/Organization	Repl					I
Name (2011A)	Depr	P	M	S	G	
Name	Repl	P	M	S	G	
Phone (2011A)	Depr	P	M			
Phone	Repl	P	M			
Text (Scheme Build)	Depr		M			
English, United States						
Locale Code	Depr					L
Country	Same					L
City (Scheme Build)	Depr		M			
Individual/Organization (2011A)	Depr					I
Individual/Organization	Repl					I
Name (2011A)	Depr	P	M	S	G	
Name	Repl	P	M	S	G	
State (Scheme Build)	Depr		M			
Text (Scheme Build)	Depr		M			
Text (Scheme Build - Long)	Depr		M			
Finnish, Finland						
Locale Code	Depr					L
Country	Same					L
French, Canada						
Locale Code	Depr					L
Country	Same					L
Individual/Organization (2011A)	Depr					I
Individual/Organization	Repl					I



Name (Matching)	Depr	P		
Name (2011A)	Depr	P	M	S G
Name (2012A)	Add		M	
Name	Depr		M	
Name	Add	P		S
Name	Repl			G
State/Province (Full Name)	Depr			S
State/Province	Add			S
French, France				
Locale Code	Depr			L
Country	Same			L
Address	Depr	P	M	S
Address (2012A)	Add	P	M	S
Address (PO Box Only)	Depr		M	
Address (PO Box Only) (2012A)	Add		M	
Address (Street Only)	Depr		M	
Address (Street Only) (2012A)	Add		M	
City	Depr		M	
City (2012A)	Add		M	
Name (2011A)	Depr	P		
Name	Same	P		
Name	Depr		M	
Name (2012A)	Add		M	
Phone (2011A)	Depr	P		
Phone	Same	P		
Phone	Depr		M	
Phone (2012A)	Add		M	
Phone (International Format)	Depr			S
Phone (with Country Code)	Add			S
Proper (Address) (2011A)	Depr			C
Proper (Address)	Same			C
German, Germany				
Locale Code	Depr			L
Country	Same			L
Greek, Greece				
Locale Code	Depr			L
Country	Same			L
Hungarian, Hungary				
Locale Code	Depr			L
Country	Same			L
Italian, Italy				
Locale Code	Depr			L
Country	Same			L
Japanese, Japan				
Locale Code	Depr			L
Country	Same			L
Korean, South Korea				
Locale Code	Depr			L
Country	Same			L

Malay, Malaysia			
Locale Code	Depr		L
Country	Same		L
Norwegian, Norway			
Locale Code	Depr		L
Country	Same		L
Polish, Poland			
Individual/Organization (2008A)	Depr	I	
Individual/Organization	Repl	I	
Locale Code	Depr		L
Country	Same		L
Portuguese, Brazil			
Locale Code	Depr		L
Country	Same		L
Portuguese, Portugal			
Locale Code	Depr		L
Country	Same		L
Russian, Russia			
Locale Code	Depr		L
Country	Same		L
Slovak, Slovakia			
Locale Code	Depr		L
Country	Same		L
Spanish, Mexico			
Locale Code	Depr		L
Country	Same		L
Spanish, Spain			
Locale Code	Depr		L
Country	Same		L
Swedish, Sweden			
Locale Code	Depr		L
Country	Same		L
Thai, Thailand			
Locale Code	Depr		L
Country	Same		L
Turkish, Turkey			
Locale Code	Depr		L
Country	Same		L

## Enhancements

Note that definitions named with the suffix "(2012A)" are the newest definitions developed by DataFlux. We recommend that you use these new definitions when possible. Be aware, however, that some software version restrictions apply for some definitions. See the sections "Configuration Settings" and "Deprecations" for further details.

The following is a list of definitions that are added, removed, or modified in this release. See the HTML documentation for this release for details about these definitions.

```

*****
****      Legend for the following change descriptions      ****
****      New      Definition Added                        ****
****      Mod      Definition Modified                    ****
****      Rem      Definition Removed                      ****
****      P        Parse Definition                       ****
****      M        Match Definition                       ****
****      S        Standardization Definition             ****
****      G        Gender Analysis Definition             ****
****      I        Identification Definition               ****
****      C        Case Definition                         ****
****      A        Pattern Analysis Definition            ****
****      E        Extraction Definition                  ****
****      N        Language Guess Definition              ****
****      L        Locale Guess Definition                 ****
*****

```

Locale	Action	Type of Definition	
Afrikaans, South Africa			
ASCII Non-Printable Character Removal	New	S	
Address (Full)	Mod	M	
Business Title	Mod	M	
City	Mod	S	
Country	Mod	M S	L
Country (FIPS)	Mod	S	
Country (ISO 2 Char)	Mod	S	
Country (ISO 3 Char)	Mod	S	
Country (ISO Number)	Mod	S	
Country (Internet)	Mod	S	
Country (Region)	Mod	S	
Country (Sub-Region)	Mod	S	
Date (DMY)	Mod	S	
Date (MDY)	Mod	S	
Date (YMD)	Mod	S	
Date/Time (DMY)	Mod	M	
Date/Time (DMY) Basic	Mod	S	
Date/Time (DMY) Extended	Mod	S	
Date/Time (MDY)	Mod	M	
Date/Time (MDY) Basic	Mod	S	
Date/Time (MDY) Extended	Mod	S	
Date/Time (YMD) Basic	Mod	S	
Date/Time (YMD) Extended	Mod	S	
E-mail	Mod	P M S	
Field Name	Mod	M	I
Hyphen/Dash Removal	New	S	
Hyphen/Dash Space Replacement	New	S	
ID Number	Mod		G
Individual/Organization	Mod		I
Individual/Organization (2011A)	Mod		I
Metadata	Rem	M	I
Multiple Space Collapse	New	S	
Name	Mod	P M S G	

Name (2011A)	Mod	P	M	S	G	
Name (Global)	Mod	P				
Name (Matching)	Rem	P				
Name (Multiple Name)	Mod	P				
Non-Alphanumeric Removal	New			S		
Non-Number Removal	New			S		
Number Removal	New			S		
Organization	Mod	P	M	S		
Organization (2011A)	Mod	P				
Organization (Global)	Mod	P				
Organization (Multiple)	Mod	P				
Organization (Two Organization)	Rem	P				
Organization (with Site)	Mod		M			
Organization Registration	Mod		M			
Phone	Mod	P	M	S		
Phone (Global)	Mod	P				
Phone (Global) (2010B)	Rem	P				
Phone (Multiple Number)	Mod	P				
Phone Country Code to Country Name	Mod			S		
Proper (Address)	Mod					C
Proper (Name)	Mod					C
Proper (Organization)	Mod					C
Proper (Site)	Mod					C
Punctuation Removal	New			S		
Punctuation Space Replacement	New			S		
Space Removal	New			S		
Surrounding Quote Removal	New			S		
Text	Mod		M			
Upper (Legal Form)	Mod					C
Arabic, Egypt						
ASCII Non-Printable Character Removal	New			S		
Country	Mod					L
E-mail	Mod	P		S		
Hyphen/Dash Removal	New			S		
Hyphen/Dash Space Replacement	New			S		
Multiple Space Collapse	New			S		
Name	Mod		M	S	G	
Name (Arabic to English Transliteration)	Mod			S		
Name (English to Arabic Transliteration)	Mod			S		
Non-Alphanumeric Removal	New			S		
Non-Number Removal	New			S		
Number Removal	New			S		
Phone	Mod	P	M	S		I
Phone (Electronic)	Mod			S		
Phone (Global)	Mod	P				
Phone (Legacy Mobile Conversion)	New			S		
Phone (Multiple Number)	Mod	P				
Phone (with Country Code)	Mod			S		
Phone (with Governorate)	Mod			S		
Phone Country Code to Country Name	Mod			S		
Punctuation Removal	New			S		

Punctuation Space Replacement	New	S	
Space Removal	New	S	
Surrounding Quote Removal	New	S	
Chinese, China			
ASCII Non-Printable Character Removal	New	S	
Address	Mod		L
Address (Full)	Mod	M S	
City	Mod	P M S	
City - State/Province - Postal Code	Mod	P M S	
City - State/Province - Postal Code (Global)	Mod	P	
Country	Mod		L
E-mail	Mod	P M S	
Field Name	Mod	M	I
Hyphen/Dash Removal	New	S	
Hyphen/Dash Space Replacement	New	S	
Locale Code	Mod		L
Multiple Space Collapse	New	S	
Name	Mod	S	
Non-Alphanumeric Removal	New	S	
Non-Number Removal	New	S	
Number Removal	New	S	
Organization	Mod	P M S	
Organization (Global)	Mod	P	
Phone	Mod	P M S	
Phone (Electronic)	Mod	S	
Phone (Global)	Mod	P	
Phone (Global) (2010B)	Rem	P	
Phone (with Country Code)	Mod	S	
Phone Country Code to Country Name	Mod	S	
Postal Code	Mod	M S	
Postal Code (with Country Code)	Mod	S	
Punctuation Removal	New	S	
Punctuation Space Replacement	New	S	
Space Removal	New	S	
Surrounding Quote Removal	New	S	
Czech, Czech Republic			
ASCII Non-Printable Character Removal	New	S	
Address	Mod	P M S	
Address (Global)	Mod	P	
Address (PO Box Only)	Mod	M	
Address (Street Only)	Mod	M	
Birth Number	Mod	P S G	
City	Mod	M	
City - State/Province - Postal Code	Mod	P M S	
City - State/Province - Postal Code (Global)	Mod	P	
Country	Mod		L
E-mail	Mod	P M S	
Hyphen/Dash Removal	New	S	
Hyphen/Dash Space Replacement	New	S	
Individual/Organization	Mod		I
Individual/Organization (2009A)	Mod		I
Multiple Space Collapse	New	S	
Name	Mod	P M S G	

Name (Global)	Mod	P	
Name (Multiple Name)	Mod	P	S
Non-Alphanumeric Removal	New		S
Non-Number Removal	New		S
Number Removal	New		S
Organization	Mod	P	M S
Organization (Global)	Mod	P	
Phone	Mod	P	M S
Phone (Electronic)	Mod		S
Phone (Global)	Mod	P	
Phone (Global) (2010B)	Rem	P	
Phone (with Country Code)	Mod		S
Phone Country Code to Country Name	Mod		S
Punctuation Removal	New		S
Punctuation Space Replacement	New		S
Space Removal	New		S
Surrounding Quote Removal	New		S
Danish, Denmark			
ASCII Non-Printable Character Removal	New		S
Address	Mod		S
Country	Mod		
E-mail	Mod	P	M S
Hyphen/Dash Removal	New		S
Hyphen/Dash Space Replacement	New		S
Multiple Space Collapse	New		S
Name	Mod		M S
Non-Alphanumeric Removal	New		S
Non-Number Removal	New		S
Number Removal	New		S
Phone (Global)	Mod	P	
Phone (Global) (2010B)	Rem	P	
Phone Country Code to Country Name	Mod		S
Punctuation Removal	New		S
Punctuation Space Replacement	New		S
Space Removal	New		S
Surrounding Quote Removal	New		S
Dutch, Belgium			
ASCII Non-Printable Character Removal	New		S
Address	Mod	P	M S
Address (Full)	Mod	P	
Address (Global)	Mod	P	
City	Mod		M
City - State/Province - Postal Code	Mod	P	M S
City - State/Province - Postal Code (Global)	Mod	P	
Country	Mod		
E-mail	Mod	P	M S
Hyphen/Dash Removal	New		S
Hyphen/Dash Space Replacement	New		S
Multiple Space Collapse	New		S
Name	Mod	P	M S G
Name (Global)	Mod	P	
Name (Multiple Name)	Mod	P	
Name (No Translation)	Mod		S
Non-Alphanumeric Removal	New		S

L

L

Non-Number Removal	New	S	
Number Removal	New	S	
Organization	Mod	M	
Phone	Mod	P M S	
Phone (Global)	Mod	P	
Phone (Global) (2010B)	Rem	P	
Phone (with Country Code)	Mod	S	
Phone Country Code to Country Name	Mod	S	
Punctuation Removal	New	S	
Punctuation Space Replacement	New	S	
Space Removal	New	S	
Street Name	Mod	M	
Surrounding Quote Removal	New	S	
Dutch, Netherlands			
ASCII Non-Printable Character Removal	New	S	
Address	Mod	P M S	
Address (2010B)	Rem	P	
Address (Full)	Mod	P	
Address (Global)	Mod	P	
Address (PO Box Only)	Mod	M	
Address (Short Street Name)	Mod	S	
Address (Short Street Type)	Rem	S	
Address (Street Only)	Mod	M	
City	Mod	M S	
City - State/Province - Postal Code	Mod	P M S	
City - State/Province - Postal Code (2010B)	Rem	P	
City - State/Province - Postal Code (Global)	Mod	P	
City - State/Province - Postal Code (International)	Mod	S	
Country	Mod		L
E-mail	Mod	P M S	
Hyphen/Dash Removal	New	S	
Hyphen/Dash Space Replacement	New	S	
Individual/Organization	Mod		I
Multiple Space Collapse	New	S	
Name	Mod	P M S G	
Name (2010B)	Rem	P	
Name (Global)	Mod	P	
Name (Initials)	Mod	M	
Name (Multiple Name)	Mod	P	
Name (Separate Prepositions)	Mod	P	
Name (with Punctuation)	Mod	S	
Non-Alphanumeric Removal	New	S	
Non-Number Removal	New	S	
Number Removal	New	S	
Organization	Mod	P M S	
Organization (2010B)	Rem	P	
Organization (Abbr)	Mod	M	
Organization (Global)	Mod	P	
Phone	Mod	P M S	
Phone (2010B)	Rem	P	
Phone (Electronic)	Mod	S	
Phone (Global)	Mod	P	
Phone (Global) (2010B)	Rem	P	

Phone (with Country Code)	Mod		S	
Phone Country Code to Country Name	Mod		S	
Postal Code	Mod	M	S	
Postal Code (with Country Code)	Mod		S	
Punctuation Removal	New		S	
Punctuation Space Replacement	New		S	
Space Removal	New		S	
State/Province	Mod	M	S	
State/Province (Postal Standard)	Mod		S	
Surrounding Quote Removal	New		S	
English, Australia				
ASCII Non-Printable Character Removal	New		S	
Address	Mod			L
Address (Full)	Mod	M	I	
Business Title	Mod	M		
City	Mod	M	S	
City - State/Province - Postal Code	Mod	M	S	
Country	Mod	M	S	L
Country (FIPS)	Mod		S	
Country (ISO 2 Char)	Mod		S	
Country (ISO 3 Char)	Mod		S	
Country (ISO Number)	Mod		S	
Country (Internet)	Mod		S	
Country (Region)	Mod		S	
Country (Sub-Region)	Mod		S	
Date (DMY)	Mod		S	
Date (MDY)	Mod		S	
Date (YMD)	Mod		S	
Date/Time (DMY)	Mod	M		
Date/Time (DMY) Basic	Mod		S	
Date/Time (DMY) Extended	Mod		S	
Date/Time (MDY)	Mod	M		
Date/Time (MDY) Basic	Mod		S	
Date/Time (MDY) Extended	Mod		S	
Date/Time (YMD) Basic	Mod		S	
Date/Time (YMD) Extended	Mod		S	
E-mail	Mod	P M	S	
Field Name	Mod	M	I	
Hyphen/Dash Removal	New		S	
Hyphen/Dash Space Replacement	New		S	
Individual/Organization	Mod		I	
Individual/Organization (2011A)	Mod		I	
Metadata	Rem	M	I	
Multiple Space Collapse	New		S	
Name	Mod	P M S	G	
Name (2011A)	Mod	P M S	G	
Name (Global)	Mod	P		
Name (Matching)	Rem	P		
Name (Multiple Name)	Mod	P		
Name (with Suggestions)	Mod	M		
Non-Alphanumeric Removal	New		S	
Non-Number Removal	New		S	
Number Removal	New		S	
Organization	Mod	P M	S	
Organization (Global)	Mod	P		
Organization (Multiple)	Mod	P		



Phone (Global)	Mod	P		
Phone (Global) (2010B)	Rem	P		
Phone Country Code to Country Name	Mod		S	
Proper (Address)	Mod			C
Proper (Name)	Mod			C
Proper (Organization)	Mod			C
Proper (Site)	Mod			C
Punctuation Removal	New		S	
Punctuation Space Replacement	New		S	
Space Removal	New		S	
Surrounding Quote Removal	New		S	
Text	Mod	M		
Upper (Legal Form)	Mod			C
English, Canada				
ASCII Non-Printable Character Removal	New		S	
Address	Mod	P M S		L
Address (2012A)	New	P M		
Address (Detailed)	New	P		
Address (Global)	Mod	P		
Business Title	Mod	M		
City	Mod	M S		
City (2012A)	New	M		
City (Scheme Build)	Mod	M		
City - State/Province - Postal Code	Mod	P M S		
City - State/Province - Postal Code (2012A)	New	P M		
City - State/Province - Postal Code (Global)	Mod	P		
City - State/Province - Postal Code (International)	New		S	
Country	Mod	M S		L
Country (FIPS)	Mod		S	
Country (ISO 2 Char)	Mod		S	
Country (ISO 3 Char)	Mod		S	
Country (ISO Number)	Mod		S	
Country (Internet)	Mod		S	
Country (Region)	Mod		S	
Country (Sub-Region)	Mod		S	
Date (DMY)	Mod		S	
Date (MDY)	Mod		S	
Date (YMD)	Mod		S	
Date/Time (DMY)	Mod	M		
Date/Time (DMY) Basic	Mod		S	
Date/Time (DMY) Extended	Mod		S	
Date/Time (MDY)	Mod	M		
Date/Time (MDY) Basic	Mod		S	
Date/Time (MDY) Extended	Mod		S	
Date/Time (YMD) Basic	Mod		S	
Date/Time (YMD) Extended	Mod		S	
E-mail	Mod	P M S		
Field Name	Mod	M		I
Hyphen/Dash Removal	New		S	
Hyphen/Dash Space Replacement	New		S	
Individual/Organization	Mod			I
Individual/Organization (2011A)	Mod			I
Metadata	Rem	M		I

Multiple Space Collapse	New		S	
Name	Mod	P M S G		
Name (2011A)	Mod	P M S G		
Name (Global)	Mod	P		
Name (Matching)	Rem	P		
Name (Multiple Name)	Mod	P		
Name (with Suggestions)	Mod	M		
Non-Alphanumeric Removal	New		S	
Non-Number Removal	New		S	
Number Removal	New		S	
Organization	Mod	P M S		
Organization (Global)	Mod	P		
Organization (Multiple)	Mod	P		
Organization (Scheme Build)	Rem	M		
Passport	New	M S		
Phone	Mod	P M S		
Phone (2012A)	New	P M		
Phone (Electronic)	New		S	
Phone (Global)	Mod	P		
Phone (Global) (2010B)	Rem	P		
Phone (Validation)	New			I
Phone (with Country Code)	New		S	
Phone Country Code to Country Name	Mod		S	
Postal Code	Mod	P M S		
Postal Code (2012A)	New	M		
Postal Code (Advanced Correction)	New		S	
Postal Code (Validation)	New			I
Postal Code (with Country Code)	New		S	
Proper (Name)	Mod			C
Proper (Organization)	Mod			C
Proper (Site)	Mod			C
Proper (State/Province)	Mod			C
Punctuation Removal	New		S	
Punctuation Space Replacement	New		S	
Social Security Number	New	M S		
Space Removal	New		S	
State/Province	Mod	M		
State/Province	New		S	
State/Province (Abbreviation)	Mod		S	
State/Province (Full Name)	Mod		S	
State/Province (Postal Standard)	New		S	
Surrounding Quote Removal	New		S	
Text	Mod	M		
Text (Scheme Build)	Mod	M		
Upper (Legal Form)	Mod			C
English, Hong Kong				
ASCII Non-Printable Character Removal	New		S	
Business Title	Mod	M		
Country	Mod	M S		L
Country (FIPS)	Mod		S	
Country (ISO 2 Char)	Mod		S	
Country (ISO 3 Char)	Mod		S	
Country (ISO Number)	Mod		S	
Country (Internet)	Mod		S	
Country (Region)	Mod		S	
Country (Sub-Region)	Mod		S	

Date (DMY)	Mod		S	
Date (MDY)	Mod		S	
Date (YMD)	Mod		S	
Date/Time (DMY)	Mod	M		
Date/Time (DMY) Basic	Mod		S	
Date/Time (DMY) Extended	Mod		S	
Date/Time (MDY)	Mod	M		
Date/Time (MDY) Basic	Mod		S	
Date/Time (MDY) Extended	Mod		S	
Date/Time (YMD) Basic	Mod		S	
Date/Time (YMD) Extended	Mod		S	
E-mail	Mod	P M	S	
Field Name	Mod	M		I
Hyphen/Dash Removal	New		S	
Hyphen/Dash Space Replacement	New		S	
Individual/Organization	Mod			I
Individual/Organization (2011A)	Mod			I
Metadata	Rem	M		I
Multiple Space Collapse	New		S	
Name	Mod	P M S	G	
Name (2011A)	Mod	P M S	G	
Name (Global)	Mod	P		
Name (Multiple Name)	Mod	P		
Non-Alphanumeric Removal	New		S	
Non-Number Removal	New		S	
Number Removal	New		S	
Organization	Mod	P M	S	
Organization (Global)	Mod	P		
Organization (Multiple)	Mod	P		
Phone Country Code to Country Name	Mod		S	
Proper (Address)	Mod			C
Proper (Name)	Mod			C
Proper (Organization)	Mod			C
Proper (Site)	Mod			C
Punctuation Removal	New		S	
Punctuation Space Replacement	New		S	
Space Removal	New		S	
Surrounding Quote Removal	New		S	
Text	Mod	M		
Upper (Legal Form)	Mod			C

English, India

ASCII Non-Printable Character Removal	New		S	
Address	Mod	P M	S	
Address (Full)	Mod	P		
Address (Global)	Mod	P		
Business Title	Mod	M		
City - State/Province - Postal Code	Mod	P M	S	
City - State/Province - Postal Code (Global)	Mod	P		
Country	Mod	M	S	L
Country (FIPS)	Mod		S	
Country (ISO 2 Char)	Mod		S	
Country (ISO 3 Char)	Mod		S	
Country (ISO Number)	Mod		S	
Country (Internet)	Mod		S	
Country (Region)	Mod		S	

Country (Sub-Region)	Mod		S	
Date (DMY)	Mod		S	
Date (MDY)	Mod		S	
Date (YMD)	Mod		S	
Date/Time (DMY)	Mod	M		
Date/Time (DMY) Basic	Mod		S	
Date/Time (DMY) Extended	Mod		S	
Date/Time (MDY)	Mod	M		
Date/Time (MDY) Basic	Mod		S	
Date/Time (MDY) Extended	Mod		S	
Date/Time (YMD) Basic	Mod		S	
Date/Time (YMD) Extended	Mod		S	
E-mail	Mod	P M	S	
Field Name	Mod	M		I
Hyphen/Dash Removal	New		S	
Hyphen/Dash Space Replacement	New		S	
Individual/Organization	Mod			I
Individual/Organization (2011A)	Mod			I
Metadata	Rem	M		I
Multiple Space Collapse	New		S	
Name	Mod	P M S	G	
Name (2011A)	Mod	P M S	G	
Name (Global)	Mod	P		
Name (Matching)	Mod	P		
Name (Multiple Name)	Mod	P		
Name (with Extensions)	Mod	P M		
Non-Alphanumeric Removal	New		S	
Non-Number Removal	New		S	
Number Removal	New		S	
Organization	Mod	P M	S	
Organization (Global)	Mod	P		
Organization (Multiple)	Mod	P		
Phone (Global)	Mod	P		
Phone (Global) (2010B)	Rem	P		
Phone Country Code to Country Name	Mod		S	
Proper (Organization)	Mod			C
Proper (Site)	Mod			C
Punctuation Removal	New		S	
Punctuation Space Replacement	New		S	
Space Removal	New		S	
Surrounding Quote Removal	New		S	
Text	Mod	M		
Upper (Legal Form)	Mod			C
English, New Zealand				
ASCII Non-Printable Character Removal	New		S	
Address	Mod	P M S		L
Address (Extended)	Mod	P M S		
Address (Global)	Mod	P		
Address (with Preferred Delivery Info)	Mod	P		
Business Title	Mod	M		
City - State/Province - Postal Code	Mod	P M S		
City - State/Province - Postal Code (Global)	Mod	P		
Country	Mod	M S		L
Country (FIPS)	Mod		S	
Country (ISO 2 Char)	Mod		S	

Country (ISO 3 Char)	Mod		S	
Country (ISO Number)	Mod		S	
Country (Internet)	Mod		S	
Country (Region)	Mod		S	
Country (Sub-Region)	Mod		S	
Date (DMY)	Mod		S	
Date (MDY)	Mod		S	
Date (YMD)	Mod		S	
Date/Time (DMY) Basic	Mod		S	
Date/Time (DMY) Extended	Mod		S	
Date/Time (MDY) Basic	Mod		S	
Date/Time (MDY) Extended	Mod		S	
Date/Time (YMD) Basic	Mod		S	
Date/Time (YMD) Extended	Mod		S	
E-mail	Mod	P M	S	
Field Name	Mod		M	I
Hyphen/Dash Removal	New		S	
Hyphen/Dash Space Replacement	New		S	
Individual/Organization	Mod			I
Individual/Organization (2011A)	Mod			I
Metadata	Rem	M		I
Multiple Space Collapse	New		S	
Name	Mod	P M S	G	
Name (2011A)	Mod	P M S	G	
Name (Global)	Mod	P		
Name (Matching)	Rem	P		
Name (Multiple Name)	Mod	P		
Name (with Suggestions)	Mod		M	
Non-Alphanumeric Removal	New		S	
Non-Number Removal	New		S	
Number Removal	New		S	
Organization	Mod	P M	S	
Organization (Global)	Mod	P		
Organization (Multiple)	Mod	P		
Phone	Mod	P M S		I
Phone (2011A)	Mod	P M		I
Phone (Electronic)	Mod		S	
Phone (Global)	Mod	P		
Phone (Global) (2010B)	Rem	P		
Phone (Published 0800/0508)	Rem		S	
Phone (Published 0900)	Rem		S	
Phone (Published Landline/Mobile)	Rem		S	
Phone (with Country Code)	Mod		S	
Phone Country Code to Country Name	Mod		S	
Proper (Address)	Mod			C
Proper (Name)	Mod			C
Proper (Organization)	Mod			C
Proper (Site)	Mod			C
Punctuation Removal	New		S	
Punctuation Space Replacement	New		S	
Space Removal	New		S	
Surrounding Quote Removal	New		S	
Text	Mod	M		
Text (Scheme Build)	Mod	M		
Upper (Legal Form)	Mod			C

English, South Africa

ASCII Non-Printable Character Removal	New		S	
Address (Full)	Mod	M		
Business Title	Mod	M		
City	Mod		S	
Country	Mod	M	S	L
Country (FIPS)	Mod		S	
Country (ISO 2 Char)	Mod		S	
Country (ISO 3 Char)	Mod		S	
Country (ISO Number)	Mod		S	
Country (Internet)	Mod		S	
Country (Region)	Mod		S	
Country (Sub-Region)	Mod		S	
Date (DMY)	Mod		S	
Date (MDY)	Mod		S	
Date (YMD)	Mod		S	
Date/Time (DMY)	Mod	M		
Date/Time (DMY) Basic	Mod		S	
Date/Time (DMY) Extended	Mod		S	
Date/Time (MDY)	Mod	M		
Date/Time (MDY) Basic	Mod		S	
Date/Time (MDY) Extended	Mod		S	
Date/Time (YMD) Basic	Mod		S	
Date/Time (YMD) Extended	Mod		S	
E-mail	Mod	P	M	S
Field Name	Mod		M	I
Hyphen/Dash Removal	New		S	
Hyphen/Dash Space Replacement	New		S	
ID Number	Mod			G
Individual/Organization	Mod			I
Individual/Organization (2011A)	Mod			I
Metadata	Rem		M	I
Multiple Space Collapse	New		S	
Name	Mod	P	M	S
Name (2011A)	Mod	P	M	S
Name (Global)	Mod	P		
Name (Matching)	Rem	P		
Name (Multiple Name)	Mod	P		
Non-Alphanumeric Removal	New		S	
Non-Number Removal	New		S	
Number Removal	New		S	
Organization	Mod	P	M	S
Organization (2011A)	Mod	P		
Organization (Global)	Mod	P		
Organization (Multiple)	Mod	P		
Organization (Two Organization)	Rem	P		
Organization (with Site)	Mod		M	
Organization Registration	Mod		M	
Phone	Mod	P	M	S
Phone (Global)	Mod	P		
Phone (Global) (2010B)	Rem	P		
Phone (Multiple Number)	Mod	P		
Phone Country Code to Country Name	Mod		S	
Proper (Address)	Mod			C
Proper (Name)	Mod			C
Proper (Organization)	Mod			C

Proper (Site)	Mod				C
Punctuation Removal	New		S		
Punctuation Space Replacement	New		S		
Space Removal	New		S		
Surrounding Quote Removal	New		S		
Text	Mod		M		
Upper (Legal Form)	Mod				C
English, United Kingdom					
ASCII Non-Printable Character Removal	New		S		
Address	Mod		P M S		
Address (Full with Prefix - Street Type - Post Code - House Name)	Rem		M		
Address (Full with Prefix - Street Type - Post Code)	Rem		M		
Address (Full with Prefix - Street Type)	Rem		M		
Address (Full with Prefix)	Rem		M		
Address (Full)	Rem		S		
Address (Full)	Mod		P M		
Address (Full) (2011A)	Mod		M		
Address (Full) (with Combinations)	Mod		M		
Address (Global)	Mod		P		
Address (PAF)	Rem		M		
Business Title	Mod		M		
City	Mod		M S		
City - State/Province - Postal Code	Mod		P M S		
City - State/Province - Postal Code (Global)	Mod		P		
Country	Mod		M S		L
Country (FIPS)	Mod		S		
Country (ISO 2 Char)	Mod		S		
Country (ISO 3 Char)	Mod		S		
Country (ISO Number)	Mod		S		
Country (Internet)	Mod		S		
Country (Region)	Mod		S		
Country (Sub-Region)	Mod		S		
Date (DMY)	Mod		S		
Date (MDY)	Mod		S		
Date (YMD)	Mod		S		
Date/Time (DMY)	Mod		M		
Date/Time (DMY) Basic	Mod		S		
Date/Time (DMY) Extended	Mod		S		
Date/Time (MDY)	Mod		M		
Date/Time (MDY) Basic	Mod		S		
Date/Time (MDY) Extended	Mod		S		
Date/Time (YMD) Basic	Mod		S		
Date/Time (YMD) Extended	Mod		S		
E-mail	Mod		P M S		
Field Name	Mod		M		I
Hyphen/Dash Removal	New		S		
Hyphen/Dash Space Replacement	New		S		
Individual/Organization	Mod				I
Individual/Organization (2011A)	Mod				I
Metadata	Rem		M		I
Multiple Space Collapse	New		S		
Name	Mod		P M S G		
Name (2011A)	Mod		P M S G		

Name (Global)	Mod	P		
Name (Matching)	Rem	P		
Name (Multiple Name)	Mod	P		
Name (Title)	Mod	M		
Name (with Suggestions)	Mod	M		
Non-Alphanumeric Removal	New	S		
Non-Number Removal	New	S		
Number Removal	New	S		
Organization	Mod	P M S		
Organization (Global)	Mod	P		
Organization (Multiple)	Mod	P		
Phone	Mod	P M S	I	
Phone (2011A)	Mod	P M		
Phone (Electronic)	Mod	S		
Phone (Global)	Mod	P		
Phone (Global) (2010B)	Rem	P		
Phone (with Country Code)	Mod	S		
Phone Country Code to Country Name	Mod	S		
Postal Code	Mod	M S		
Postal Code (Validation)	Mod		I	
Postal Code (with Country Code)	Mod	S		
Proper (Address)	Mod			C
Proper (Name)	Mod			C
Proper (Organization)	Mod			C
Proper (Site)	Mod			C
Punctuation Removal	New	S		
Punctuation Space Replacement	New	S		
Space Removal	New	S		
Surrounding Quote Removal	New	S		
Text	Mod	M		
Text (Scheme Build)	Mod	M		
Upper (Legal Form)	Mod			C
English, United States				
ASCII Non-Printable Character Removal	New	S		
Address	Mod	P M S		
Address (Global)	Mod	P		
Address (Long)	Mod	M		
Business Title	Mod	M		
City	Mod	M		
City (Scheme Build)	Mod	M		
City - State/Province - Postal Code	Mod	P M S		
City - State/Province - Postal Code (Global)	Mod	P		
Contact Info	Mod		I	
Country	Mod	M S		L
Country (FIPS)	Mod	S		
Country (ISO 2 Char)	Mod	S		
Country (ISO 3 Char)	Mod	S		
Country (ISO Number)	Mod	S		
Country (Internet)	Mod	S		
Country (Region)	Mod	S		
Country (Sub-Region)	Mod	S		
Date (DMY)	Mod	S		
Date (MDY)	Mod	S		
Date (YMD)	Mod	S		
Date/Time (DMY)	Mod	M		



Date/Time (DMY) Basic	Mod		S	
Date/Time (DMY) Extended	Mod		S	
Date/Time (MDY)	Mod	M		
Date/Time (MDY) Basic	Mod		S	
Date/Time (MDY) Extended	Mod		S	
Date/Time (YMD) Basic	Mod		S	
Date/Time (YMD) Extended	Mod		S	
E-mail	Mod	P M S		
Field Name	Mod	M		I
Hyphen/Dash Removal	New		S	
Hyphen/Dash Space Replacement	New		S	
Individual/Organization	Mod			I
Individual/Organization (2011A)	Mod			I
Individual/Organization (v2)	Rem			I
Metadata	Rem	M		I
Multiple Space Collapse	New		S	
Name	Mod	P M S G		
Name (2011A)	Mod	P M S G		
Name (Global)	Mod	P		
Name (Matching)	Rem	P		
Name (Multiple Name)	Mod	P		
Name (with Suggestions)	Mod	M		
Name/Organization	Mod	P		
Non-Alphanumeric Removal	New		S	
Non-Number Removal	New		S	
Number Removal	New		S	
Organization	Mod	P M S		
Organization (Global)	Mod	P		
Organization (Long)	Rem	M		
Organization (Multiple)	Mod	P		
Organization (Scheme Build - Long)	Rem	M		
Organization (Scheme Build)	Rem	M		
Organization (Two Organization)	Rem	P		
Phone	Mod	P M S		
Phone (Electronic)	Mod		S	
Phone (Global)	Mod	P		
Phone (Global) (2010B)	Rem	P		
Phone (Validation)	Mod			I
Phone (with Country Code)	Mod		S	
Phone Country Code to Country Name	Mod		S	
Proper (Address)	Mod			C
Proper (Name)	Mod			C
Proper (Organization)	Mod			C
Proper (Site)	Mod			C
Punctuation Removal	New		S	
Punctuation Space Replacement	New		S	
Space Removal	New		S	
Surrounding Quote Removal	New		S	
Text	Mod	M		
Text (Long)	Mod	M		
Text (Scheme Build - Long)	Mod	M		
Text (Scheme Build)	Mod	M		
Upper (Legal Form)	Mod			C
Finnish, Finland				
ASCII Non-Printable Character Removal	New		S	
Address	Mod	M		

Address (Full)	Mod	M	
Address (Street Only)	Mod	M	
Country	Mod		L
E-mail	Mod	P M S	
Hyphen/Dash Removal	New	S	
Hyphen/Dash Space Replacement	New	S	
Multiple Space Collapse	New	S	
Name	Mod	S	
Name (No Translation)	Mod	S	
Name (Swedish)	Mod	S	
Non-Alphanumeric Removal	New	S	
Non-Number Removal	New	S	
Number Removal	New	S	
Phone	Mod	M	
Phone (Global)	Mod	P	
Phone (Global) (2010B)	Rem	P	
Phone Country Code to Country Name	Mod	S	
Punctuation Removal	New	S	
Punctuation Space Replacement	New	S	
Space Removal	New	S	
Surrounding Quote Removal	New	S	
French, Belgium			
ASCII Non-Printable Character Removal	New	S	
Address	Mod	P M S	
Address (Full)	Mod	P	
Address (Global)	Mod	P	
City	Mod	M	
City - State/Province - Postal Code	Mod	P M S	
City - State/Province - Postal Code (Global)	Mod	P	
Country	Mod		L
E-mail	Mod	P M S	
Hyphen/Dash Removal	New	S	
Hyphen/Dash Space Replacement	New	S	
Multiple Space Collapse	New	S	
Name	Mod	P M S G	
Name (Global)	Mod	P	
Name (Multiple Name)	Mod	P	
Name (No Translation)	Mod	S	
Non-Alphanumeric Removal	New	S	
Non-Number Removal	New	S	
Number Removal	New	S	
Organization	Mod	M	
Phone	Mod	P M S	
Phone (Global)	Mod	P	
Phone (Global) (2010B)	Rem	P	
Phone (with Country Code)	Mod	S	
Phone Country Code to Country Name	Mod	S	
Punctuation Removal	New	S	
Punctuation Space Replacement	New	S	
Space Removal	New	S	
Street Name	Mod	M	
Surrounding Quote Removal	New	S	

French, Canada

ASCII Non-Printable Character Removal	New		S	
Address	Mod	P M	S	L
Address (2012A)	New	P M		
Address (Detailed)	New	P		
Address (Global)	Mod	P		
Business Title	Mod	M		
City	Mod	M S		
City (2012A)	New	M		
City (Scheme Build)	Mod	M		
City - State/Province - Postal Code	Mod	P M S		
City - State/Province - Postal Code (2012A)	New	P M		
City - State/Province - Postal Code (Global)	Mod	P		
City - State/Province - Postal Code (International)	New		S	
Country	Mod	M S		L
Country (FIPS)	Mod		S	
Country (ISO 2 Char)	Mod		S	
Country (ISO 3 Char)	Mod		S	
Country (ISO Number)	Mod		S	
Country (Internet)	Mod		S	
Country (Region)	Mod		S	
Country (Sub-Region)	Mod		S	
Date (DMY)	Mod		S	
Date (MDY)	Mod		S	
Date (YMD)	Mod		S	
Date/Time (DMY)	Mod	M		
Date/Time (DMY) Basic	Mod		S	
Date/Time (DMY) Extended	Mod		S	
Date/Time (MDY)	Mod	M		
Date/Time (MDY) Basic	Mod		S	
Date/Time (MDY) Extended	Mod		S	
Date/Time (YMD) Basic	Mod		S	
Date/Time (YMD) Extended	Mod		S	
E-mail	Mod	P M S		
Field Name	Mod	M		I
Hyphen/Dash Removal	New		S	
Hyphen/Dash Space Replacement	New		S	
Individual/Organization	Mod			I
Individual/Organization (2011A)	Mod			I
Metadata	Rem	M		I
Multiple Space Collapse	New		S	
Name	Mod	P M S G		
Name (2011A)	Mod	P M S G		
Name (2012A)	New	M		
Name (Global)	Mod	P		
Name (Matching)	Mod	P		
Name (Multiple Name)	Mod	P		
Name (with Suggestions)	Mod	M		
Non-Alphanumeric Removal	New		S	
Non-Number Removal	New		S	
Number Removal	New		S	
Organization	Mod	P M S		
Organization (Global)	Mod	P		
Organization (Multiple)	Mod	P		

Organization (Scheme Build)	Rem	M		
Passport	New	M S		
Phone	Mod	P M S		
Phone (2012A)	New	P M		
Phone (Electronic)	New	S		
Phone (Global)	Mod	P		
Phone (Global) (2010B)	Rem	P		
Phone (Validation)	New		I	
Phone (with Country Code)	New	S		
Phone Country Code to Country Name	Mod	S		
Postal Code	Mod	P M S		
Postal Code (2012A)	New	M		
Postal Code (Advanced Correction)	New	S		
Postal Code (Validation)	New		I	
Postal Code (with Country Code)	New	S		
Proper (Name)	Mod			C
Proper (Organization)	Mod			C
Proper (Site)	Mod			C
Punctuation Removal	New	S		
Punctuation Space Replacement	New	S		
Social Security Number	New	M S		
Space Removal	New	S		
State/Province	Mod	M		
State/Province	New	S		
State/Province (Abbreviation)	Mod	S		
State/Province (Full Name)	Mod	S		
State/Province (Postal Standard)	New	S		
Surrounding Quote Removal	New	S		
Text	Mod	M		
Text (Scheme Build)	Mod	M		
Upper (Legal Form)	Mod			C
French, France				
ASCII Non-Printable Character Removal	New	S		
Address	Mod	P M S		L
Address (2012A)	New	P M S		
Address (Detailed)	New	P		
Address (Global)	Mod	P		
Address (PO Box Only)	Mod	M		
Address (PO Box Only) (2012A)	New	M		
Address (Street Only)	Mod	M		
Address (Street Only) (2012A)	New	M		
City	Mod	M S		
City (2012A)	New	M		
City - State/Province - Postal Code	Mod	P M S		
City - State/Province - Postal Code (Global)	Mod	P		
Country	Mod	S		L
Country (ISO 2 Char)	Mod	S		
Country (ISO 3 Char)	Mod	S		
E-mail	Mod	P M S		
Hyphen/Dash Removal	New	S		
Hyphen/Dash Space Replacement	New	S		
Individual/Organization	Mod	P	I	
Multiple Space Collapse	New	S		
Name	Mod	P M S G		
Name (2011A)	New	P		

Name (2012A)	New	M		
Name (Global)	Mod	P		
Name (Multiple Name)	Mod	P		
Non-Alphanumeric Removal	New		S	
Non-Number Removal	New		S	
Number Removal	New		S	
Organization	Mod	P M	S	
Organization (Global)	Mod	P		
Organization (Upper)	Mod		S	
Phone	Mod	P M	S	
Phone (2012A)	New	M		
Phone (Electronic)	New		S	
Phone (Global)	Mod	P		
Phone (Global) (2010B)	Rem	P		
Phone (International Format)	Mod		S	
Phone (Validation)	New			I
Phone (with Country Code)	New		S	
Phone Country Code to Country Name	Mod		S	
Proper (Address)	Mod			C
Proper (Name)	Mod			C
Punctuation Removal	New		S	
Punctuation Space Replacement	New		S	
Space Removal	New		S	
Surrounding Quote Removal	New		S	
Text	New	M		
Upper (Legal Form)	Mod			C
German, Germany				
ASCII Non-Printable Character Removal	New		S	
Address	Mod	M	S	
Address (PO Box Only)	Mod	M		
Address (Street Only)	Mod	M		
City	Mod	P M		
City - State/Province - Postal Code	Mod	P M	S	
City - State/Province - Postal Code (Global)	Mod	P		
Country	Mod			L
E-mail	Mod	P M	S	
Field Name	New	M		I
Hyphen/Dash Removal	New		S	
Hyphen/Dash Space Replacement	New		S	
Individual/Organization	Mod			I
Locale Code	Mod			L
Multiple Space Collapse	New		S	
Name	Mod	P M S	G	
Name (Global)	Mod	P		
Name (Multiple Name)	Mod	P		
Non-Alphanumeric Removal	New		S	
Non-Number Removal	New		S	
Number Removal	New		S	
Organization	Mod	P M	S	
Organization (Global)	Mod	P		
Phone	Mod	P M	S	
Phone (Electronic)	Mod		S	
Phone (Global)	Mod	P		
Phone (Global) (2010B)	Rem	P		
Phone (with Country Code)	Mod		S	

Phone Country Code to Country Name	Mod		S	
Punctuation Removal	New		S	
Punctuation Space Replacement	New		S	
Space Removal	New		S	
Surrounding Quote Removal	New		S	
Text	Mod		M	
Greek, Greece				
ASCII Non-Printable Character Removal	New		S	
Address	Mod		M S	
Address (PO Box Only)	Mod		M	
Address (Street Only)	Mod		M	
City	Mod		M S	
City - State/Province - Postal Code	Mod		M S	
City - State/Province - Postal Code (International)	Mod		S	
Country	Mod			L
E-mail	Mod	P M	S	
Hyphen/Dash Removal	New		S	
Hyphen/Dash Space Replacement	New		S	
ID Card Number	Mod			I
Island	Mod		M S	
Multiple Space Collapse	New		S	
Name	Mod	P M S	G	
Name (Global)	Mod	P		
Name (Multiple Name)	Mod	P		
Name (Salutation)	Mod		S	
Non-Alphanumeric Removal	New		S	
Non-Number Removal	New		S	
Number Removal	New		S	
Organization	Mod		M S	
Patronym	Mod		S	
Phone	Mod		S	
Phone (Electronic)	Mod		S	
Phone (Global)	Mod	P		
Phone (Global) (2010B)	Rem	P		
Phone (with Country Code)	Mod		S	
Phone Country Code to Country Name	Mod		S	
Postal Code	Mod		M S	
Postal Code (with Country Code)	Mod		S	
Punctuation Removal	New		S	
Punctuation Space Replacement	New		S	
Space Removal	New		S	
State/Province	Mod		M S	
State/Province (Postal Standard)	Mod		S	
Surrounding Quote Removal	New		S	
Tax ID	Mod	P	S	
Hungarian, Hungary				
ASCII Non-Printable Character Removal	New		S	
Address	Mod		M	
Address (Full)	Mod		M	
City	Mod		M	
City - State/Province - Postal Code	Mod		M	
Country	Mod			L
E-mail	Mod	P M	S	
Hyphen/Dash Removal	New		S	

Hyphen/Dash Space Replacement	New	S	
Individual/Organization	Mod		I
Multiple Space Collapse	New	S	
Name	Mod	P M S G I	
Name (Global)	Mod	P	
Name (Marriage Name Only)	Mod	M	
Name (Multiple Name)	Mod	P	
Name (with Infix)	Mod	P	
Non-Alphanumeric Removal	New	S	
Non-Number Removal	New	S	
Number Removal	New	S	
Organization	Mod	P M S	
Phone (Global)	Mod	P	
Phone (Global) (2010B)	Rem	P	
Phone Country Code to Country Name	Mod	S	
Punctuation Removal	New	S	
Punctuation Space Replacement	New	S	
Space Removal	New	S	
Surrounding Quote Removal	New	S	
Text	Mod	M	

Italian, Italy

ASCII Non-Printable Character Removal	New	S	
Address	Mod	M S	
Address (2010B)	Rem	P	
Address (Postal Standard)	Mod	S	
Address (Street Only)	Mod	M	
City	Mod	M S	
City (Postal Standard)	Mod	S	
City - State/Province - Postal Code	Mod	P M S	
City - State/Province - Postal Code (2010B)	Rem	P	
City - State/Province - Postal Code (Global)	Mod	P	
City - State/Province - Postal Code (International)	Mod	S	
Country	Mod		L
Date (DMY)	Mod	S	
Date (MDY)	Mod	S	
Date (YMD)	Mod	S	
E-mail	Mod	P M S	
Hyphen/Dash Removal	New	S	
Hyphen/Dash Space Replacement	New	S	
Multiple Space Collapse	New	S	
Name	Mod	P M S G	
Name (2010B)	Rem	P	
Name (Global)	Mod	P	
Name (Multiple Name)	Mod	P	
Name (with Family Name Extension)	Mod	P	
Non-Alphanumeric Removal	New	S	
Non-Number Removal	New	S	
Number Removal	New	S	
Organization	Mod	M S	
Organization (2010B)	Rem	P	
Phone	Mod	P M S	
Phone (2010B)	Rem	P	
Phone (Electronic)	Mod	S	

Phone (Global)	Mod	P		
Phone (Global) (2010B)	Rem	P		
Phone (Separate Mobile Prefix)	Mod	P		
Phone (with Country Code)	Mod		S	
Phone Country Code to Country Name	Mod		S	
Postal Code	Mod		M S	
Postal Code (with Country Code)	Mod		S	
Punctuation Removal	New		S	
Punctuation Space Replacement	New		S	
Space Removal	New		S	
State/Province	Mod		M S	
State/Province (Postal Standard)	Mod		S	
Surrounding Quote Removal	New		S	
Text	Mod		M	
Japanese, Japan				
ASCII Non-Printable Character Removal	New		S	
Country	Mod			L
E-mail	Mod	P M	S	
Hyphen/Dash Removal	New		S	
Hyphen/Dash Space Replacement	New		S	
Multiple Space Collapse	New		S	
Non-Alphanumeric Removal	New		S	
Non-Number Removal	New		S	
Number Removal	New		S	
Phone (Global)	Mod	P		
Phone (Global) (2010B)	Rem	P		
Phone Country Code to Country Name	Mod		S	
Punctuation Removal	New		S	
Punctuation Space Replacement	New		S	
Space Removal	New		S	
Surrounding Quote Removal	New		S	
Korean, South Korea				
ASCII Non-Printable Character Removal	New		S	
Country	Mod			L
E-mail	Mod	P M	S	I
E-mail (Multiple Address)	Mod	P		
Hyphen/Dash Removal	New		S	
Hyphen/Dash Space Replacement	New		S	
Multiple Space Collapse	New		S	
Non-Alphanumeric Removal	New		S	
Non-Number Removal	New		S	
Number Removal	New		S	
Phone (Global)	Mod	P		
Phone (Global) (2010B)	Rem	P		
Phone Country Code to Country Name	Mod		S	
Punctuation Removal	New		S	
Punctuation Space Replacement	New		S	
Space Removal	New		S	
Surrounding Quote Removal	New		S	
Malay, Malaysia				
ASCII Non-Printable Character Removal	New		S	
City - State/Province - Postal Code	Mod	P M	S	
City - State/Province - Postal Code (Global)	Mod	P		





Non-Number Removal	New	S	
Number Removal	New	S	
Organization	Mod	M	
Organization (Global)	Mod	P	
Phone	Mod	P M S	
Phone (Global)	Mod	P	
Phone (Global) (2010B)	Rem	P	
Phone Country Code to Country Name	Mod	S	
Punctuation Removal	New	S	
Punctuation Space Replacement	New	S	
Space Removal	New	S	
Surrounding Quote Removal	New	S	
Portuguese, Brazil			
ASCII Non-Printable Character Removal	New	S	
City	Mod	S	
City - State/Province - Postal Code	Mod	M S	
Country	Mod		L
E-mail	Mod	P M S	
Hyphen/Dash Removal	New	S	
Hyphen/Dash Space Replacement	New	S	
Multiple Space Collapse	New	S	
Name	Mod	S	
Non-Alphanumeric Removal	New	S	
Non-Number Removal	New	S	
Number Removal	New	S	
Phone (Global)	Mod	P	
Phone (Global) (2010B)	Rem	P	
Phone Country Code to Country Name	Mod	S	
Punctuation Removal	New	S	
Punctuation Space Replacement	New	S	
Space Removal	New	S	
Surrounding Quote Removal	New	S	
Portuguese, Portugal			
ASCII Non-Printable Character Removal	New	S	
Address	Mod	M S	
Address (Full)	Mod	P	
City - State/Province - Postal Code	Mod	P M S	
City - State/Province - Postal Code (Global)	Mod	P	
E-mail	Mod	P M S	
Hyphen/Dash Removal	New	S	
Hyphen/Dash Space Replacement	New	S	
Multiple Space Collapse	New	S	
Name	Mod	S	
Non-Alphanumeric Removal	New	S	
Non-Number Removal	New	S	
Number Removal	New	S	
Organization	Mod	M S	
Phone	Mod	P M S	
Phone (Global)	Mod	P	
Phone (Global) (2010B)	Rem	P	
Phone Country Code to Country Name	Mod	S	

Punctuation Removal	New	S	
Punctuation Space Replacement	New	S	
Space Removal	New	S	
Surrounding Quote Removal	New	S	
Russian, Russia			
ASCII Non-Printable Character Removal	New	S	
Address	Mod	P M S	
Address (Full)	Mod	P M S	
Address (Global)	Mod	P	
Address (PO Box Only)	Mod	M	
Address (Street Only)	Mod	M	
City	Mod	M	I
City - State/Province - Postal Code	Mod	P M S	
City - State/Province - Postal Code (Global)	Mod	P	
E-mail	Mod	P M S	
Hyphen/Dash Removal	New	S	
Hyphen/Dash Space Replacement	New	S	
Individual/Organization	Mod		I
Multiple Space Collapse	New	S	
Name	Mod	P M S G	
Name (Global)	Mod	P	
Non-Alphanumeric Removal	New	S	
Non-Number Removal	New	S	
Number Removal	New	S	
Phone (Global)	Mod	P	
Phone (Global) (2010B)	Rem	P	
Phone Country Code to Country Name	Mod	S	
Punctuation Removal	New	S	
Punctuation Space Replacement	New	S	
Space Removal	New	S	
Surrounding Quote Removal	New	S	
Slovak, Slovakia			
ASCII Non-Printable Character Removal	New	S	
Address	Mod	P M S	
Address (Full)	Mod	P	
Address (Global)	Mod	P	
Address (PO Box Only)	Mod	M	
Address (Street Only)	Mod	M	
Birth Number	Mod	P S G	
City	Mod	M S	
City - State/Province - Postal Code	Mod	P M S	
City - State/Province - Postal Code (Global)	Mod	P	
Country	Mod		L
E-mail	Mod	P M S	
Hyphen/Dash Removal	New	S	
Hyphen/Dash Space Replacement	New	S	
Individual/Organization	Mod		I
Multiple Space Collapse	New	S	
Name	Mod	P M S G	
Name (Global)	Mod	P	
Name (Multiple Name)	Mod	P S	
Non-Alphanumeric Removal	New	S	
Non-Number Removal	New	S	

Number Removal	New	S	
Organization	Mod	P M S	
Organization (Global)	Mod	P	
Phone	Mod	P M S	
Phone (Electronic)	Mod	S	
Phone (Global)	Mod	P	
Phone (Global) (2010B)	Rem	P	
Phone (with Country Code)	Mod	S	
Phone Country Code to Country Name	Mod	S	
Punctuation Removal	New	S	
Punctuation Space Replacement	New	S	
Space Removal	New	S	
Surrounding Quote Removal	New	S	
Spanish, Mexico			
ASCII Non-Printable Character Removal	New	S	
Address	Mod	P M S	
Address (Global)	Mod	P	
City - State/Province - Postal Code	Mod	P M S	
City - State/Province - Postal Code (Global)	Mod	P	
Country	Mod		L
E-mail	Mod	P M S	
Hyphen/Dash Removal	New	S	
Hyphen/Dash Space Replacement	New	S	
Multiple Space Collapse	New	S	
Name	Mod	P M S G	
Name (Global)	Mod	P	
Non-Alphanumeric Removal	New	S	
Non-Number Removal	New	S	
Number Removal	New	S	
Organization	Mod	P M S	
Phone (Global)	Mod	P	
Phone (Global) (2010B)	Rem	P	
Phone Country Code to Country Name	Mod	S	
Punctuation Removal	New	S	
Punctuation Space Replacement	New	S	
Space Removal	New	S	
Surrounding Quote Removal	New	S	
Text	Mod	M	
Spanish, Spain			
ASCII Non-Printable Character Removal	New	S	
Country	Mod		L
E-mail	Mod	P M S	
Hyphen/Dash Removal	New	S	
Hyphen/Dash Space Replacement	New	S	
Multiple Space Collapse	New	S	
Name	Mod	M S	
Non-Alphanumeric Removal	New	S	
Non-Number Removal	New	S	
Number Removal	New	S	
Organization	Mod	S	
Phone	Mod	P M S	
Phone (Electronic)	Mod	S	
Phone (Global)	Mod	P	
Phone (Global) (2010B)	Rem	P	

Phone (with Country Code)	Mod		S
Phone Country Code to Country Name	Mod		S
Punctuation Removal	New		S
Punctuation Space Replacement	New		S
Space Removal	New		S
Surrounding Quote Removal	New		S
Text	Mod		M
Swedish, Sweden			
ASCII Non-Printable Character Removal	New		S
Address	Mod	P M	S
Address (Full)	Mod	P	S
Address (Global)	Mod	P	
Address (PO Box only)	Mod		M
Address (Street only)	Mod		M
City	Mod		M
City - State/Province - Postal Code	Mod	P M	S
City - State/Province - Postal Code (Global)	Mod	P	
E-mail	Mod	P M	S
Hyphen/Dash Removal	New		S
Hyphen/Dash Space Replacement	New		S
Multiple Space Collapse	New		S
Name	Mod		M S
Non-Alphanumeric Removal	New		S
Non-Number Removal	New		S
Number Removal	New		S
Organization	Mod		M
Phone	Mod		S
Phone (Global)	Mod	P	
Phone (Global) (2010B)	Rem	P	
Phone (with Country Code)	Mod		S
Phone Country Code to Country Name	Mod		S
Punctuation Removal	New		S
Punctuation Space Replacement	New		S
Space Removal	New		S
Surrounding Quote Removal	New		S
Thai, Thailand			
ASCII Non-Printable Character Removal	New		S
Country	Mod		
E-mail	Mod	P M	S
Hyphen/Dash Removal	New		S
Hyphen/Dash Space Replacement	New		S
Multiple Space Collapse	New		S
Non-Alphanumeric Removal	New		S
Non-Number Removal	New		S
Number Removal	New		S
Phone (Global)	Mod	P	
Phone (Global) (2010B)	Rem	P	
Phone Country Code to Country Name	Mod		S
Punctuation Removal	New		S
Punctuation Space Replacement	New		S
Space Removal	New		S
Surrounding Quote Removal	New		S

L

Turkish, Turkey				
ASCII Non-Printable Character Removal	New		S	
Country	Mod			L
E-mail	Mod	P M S		
E-mail (Multi-Address)	Mod	P		
Hyphen/Dash Removal	New		S	
Hyphen/Dash Space Replacement	New		S	
Multiple Space Collapse	New		S	
Non-Alphanumeric Removal	New		S	
Non-Number Removal	New		S	
Number Removal	New		S	
Phone (Global)	Mod	P		
Phone (Global) (2010B)	Rem	P		
Phone Country Code to Country Name	Mod		S	
Punctuation Removal	New		S	
Punctuation Space Replacement	New		S	
Space Removal	New		S	
Surrounding Quote Removal	New		S	

## Pre-parsed Input

Some standardization, match, and gender analysis definitions can be called with pre-parsed input in DataFlux Data Management Studio Data Jobs, DataFlux dfPower Architect, and SAS Data Quality Server.

Note: In this release, some definitions that previously accepted pre-parsed input no longer do so.

These definitions are shown below.

```
*****
****      Legend for Type of Definitions:      ****
****      M      Match Definition              ****
****      S      Standardization Definition    ****
*****
```

Locale	Type of Definition
English, Canada	
City - State/Province - Postal Code	S
English, United Kingdom	
Phone	M

If you want to use one of these definitions, we recommend that you update your job to concatenate pre-parsed substrings into a single string, and then pass this string as input to the definition.