

Loqate, A GBG Solution

Release Notes – Reference Data & Knowledge Base

2021Q3.0 Major Release

Case Resolutions

Please visit <https://support.loqate.com/release-information/2021q3-0-resolved-cases/> for a list of cases resolved in this release. If you would like more details on any of the solved cases listed, please contact LoqateSupport@gbgplc.com for further information.

Certification Expiration Dates

If you have purchased either the CASS (USA) or AMAS (Australia) certified products, please be aware that the datasets have expiration dates set by the respective postal authorities. Please ensure that you have the latest library and data installed to avoid loss of service through these products.

	Loqate Release Date	Certification Expiry Date*
AMAS Data	2021-06-01	2021-09-30
CASS Data	2021-07-15	2021-10-28

**Certification Expiry Date is different from Loqate license key expiry date. The earliest expiry date will apply.*

Please check Install Manager for the latest versions of AMAS and CASS.

For more information on expiry date checking for CASS and AMAS, please refer "Usage expiration" section in <https://support.loqate.com/documentation/local-apis/cass-overview-2/> and <https://support.loqate.com/address-matching-approval-system-amas/>

GBG Loqate, 805 Veterans Blvd Ste 305, Redwood City CA 94063-1737, USA

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CAMEO – Enhancement Data Sets

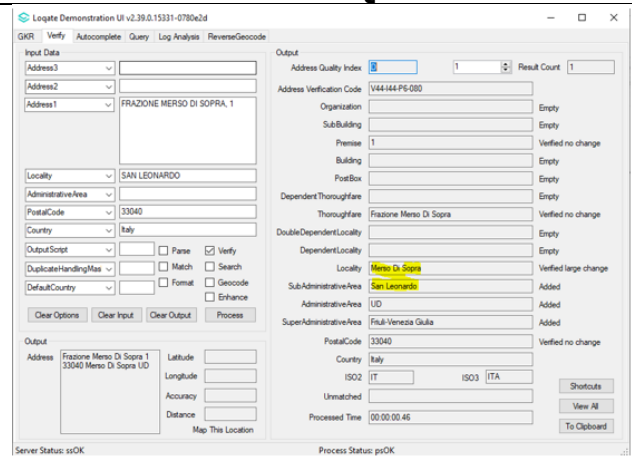
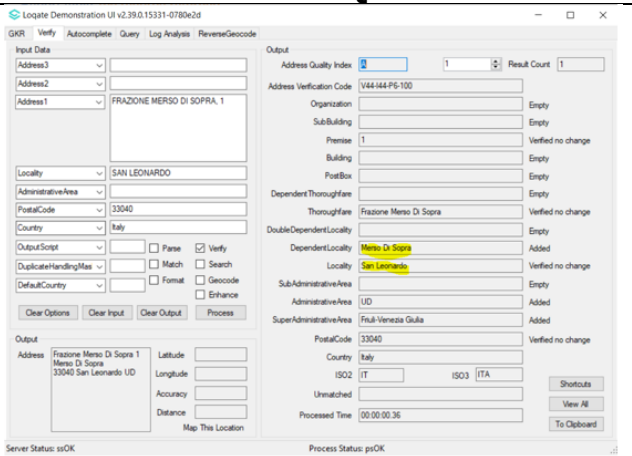
From the 2021Q3.0 major release, CAMEO Enhancement Data Set for the U.S. is now available to customers as an add-on. The CAMEO data set is used to provide consumer segmentation system linking ZIP+4 information to demographic lifestyle and socio-economic insight. The CAMEO data set can be used for the following applications: To enhance and segment consumer databases. Additional information can be found [here](#). Please contact your account manager for additional information in regards to accessing CAMEO.

USA CASS2 Engine

Please note: From the 2021Q2.0 major release, the USA CASS2 engine will be made available. Information on the USA CASS2 engine can be found on the support site [here](#). Please contact your account manager for additional information in regards to accessing USA CASS2.

Italy

From the 2021Q3.0 major release, there are geographical re-structuring changes for Italy. The SubAdministrativeArea (local name: commune) is now the Locality. The locality (local name: hamlet) is now the DependentLocality.

2021Q2.1	2021Q3.0
 San Leonard verified in SubAdministrativeArea, Merso Di Sopra verified in Locality.	 After re-alignment, San Leonard verified in Locality, Merso Di Sopra verified in DependentLocality.

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From the 2021Q3.0 major release, there is a new geographical field addition within the SubAdministrativeArea level in the reference data. Improvements have been made to the verification results within the thoroughfare field.

2021Q2.1

Incorrectly parsed Locality to Thoroughfare and SubAdministrativeArea to Locality.

The screenshot shows the Loqate Demonstration UI with the following input and output data:

Input Data	Output
ID	Address Quality Index: 8, Result Count: 1
Organization	Address Verification Code: P22/Q4/P6/100
Address	Organization: Empty
Locality	SubBuilding: Empty
AdministrativeArea	Premise: 1, Verified no change
PostalCode	Building: Empty
Country	PostBox: Empty
OutputScript	DependentThoroughfare: Empty
MaxResults	Thoroughfare: Toyota Place/Scarborough, Identified content
PreferPrimaryValidities	DoubleDependentLocality: Empty
	DependentLocality: Empty
	Locality: Toronto, Verified no change
	SubAdministrativeArea: Empty
	AdministrativeArea: ON, Verified no change
	SuperAdministrativeArea: Empty
	PostCode: MSR 2M5, Verified large change
	Country: Canada
	ISO2: CA, ISO3: CAN
	Unmatched: Empty
	Processed Time: 00:00:02.40

Server Status: ssOK, Process Status: psOK

2021Q3.0

Correctly parsed and verified Locality and SubAdministrativeArea.

The screenshot shows the Loqate Demonstration UI with the following input and output data:

Input Data	Output
ID	Address Quality Index: 8, Result Count: 1
Organization	Address Verification Code: V44/44/P4/088
Address	Organization: Empty
Locality	SubBuilding: Empty
AdministrativeArea	Premise: 1, Verified no change
PostalCode	Building: Empty
Country	PostBox: Empty
OutputScript	DependentThoroughfare: Empty
MaxResults	Thoroughfare: Toyota Pl, Verified alias change
PreferPrimaryValidities	DoubleDependentLocality: Empty
	DependentLocality: Empty
	Locality: Scarborough, Verified no change
	SubAdministrativeArea: Toronto, Verified no change
	AdministrativeArea: ON, Verified no change
	SuperAdministrativeArea: Empty
	PostCode: M1H 1H5, Verified large change
	Country: Canada
	ISO2: CA, ISO3: CAN
	Unmatched: Empty
	Processed Time: 00:00:00.53

Server Status: ssOK, Process Status: psOK

Montreal parsed to Locality and verified large changed to Verdun.

The screenshot shows the Loqate Demonstration UI with the following input and output data:

Input Data	Output
ID	Address Quality Index: 0, Result Count: 1
Organization	Address Verification Code: V44/44/P6/084
Address	Organization: Empty
Locality	SubBuilding: Empty
AdministrativeArea	Premise: 4371, Verified no change
PostalCode	Building: Empty
Country	PostBox: Empty
OutputScript	DependentThoroughfare: Empty
MaxResults	Thoroughfare: Boul Lasalle, Verified alias change
PreferPrimaryValidities	DoubleDependentLocality: Empty
	DependentLocality: Empty
	Locality: Verdun, Verified large change
	SubAdministrativeArea: Empty
	AdministrativeArea: QC, Verified no change
	SuperAdministrativeArea: Empty
	PostCode: H4G 2B2, Verified no change
	Country: Canada
	ISO2: CA, ISO3: CAN
	Unmatched: Empty
	Processed Time: 00:00:00.40

Server Status: ssOK, Process Status: psOK

Montreal parsed to SubAdministrativeArea and verified. Verdun is added into Locality. Overall match score improved.

The screenshot shows the Loqate Demonstration UI with the following input and output data:

Input Data	Output
ID	Address Quality Index: 8, Result Count: 1
Organization	Address Verification Code: V44/44/P6/100
Address	Organization: Empty
Locality	SubBuilding: Empty
AdministrativeArea	Premise: 4371, Verified no change
PostalCode	Building: Empty
Country	PostBox: Empty
OutputScript	DependentThoroughfare: Empty
MaxResults	Thoroughfare: Boul Lasalle, Verified alias change
PreferPrimaryValidities	DoubleDependentLocality: Empty
	DependentLocality: Empty
	Locality: Verdun, Added
	SubAdministrativeArea: Montreal, Verified no change
	AdministrativeArea: QC, Verified no change
	SuperAdministrativeArea: Empty
	PostCode: H4G 2B2, Verified no change
	Country: Canada
	ISO2: CA, ISO3: CAN
	Unmatched: Empty
	Processed Time: 00:00:00.76

Server Status: ssOK, Process Status: psOK

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2021Q2.1

Two different input addresses having the same Thoroughfare gets verified to two different Thoroughfare records in RD.

Input 1

Loqate Demonstration UI v2.39.1.15377-0102a77

GKR Verify Autocomplete Query Log Analysis ReverseGeocode

Input Data

ID

Organization

Address 5177 Westbury Ave. Montreal, QC, H3W 2W2, CAN

Locality

AdministrativeArea

PostalCode

Country

OutputScript

MaxResults

PreferPrimaryValidAlias

Clear Options Clear Input Clear Output Process

Output

Address 5177 Av Westbury Montreal QC H3W 2W2

Latitude 45.495110

Longitude -73.629240

Accuracy P4

Distance 0.0

Map This Location

Process Status: psOK

Server Status: ssOK

Input 2

Loqate Demonstration UI v2.39.1.15377-0102a77

GKR Verify Autocomplete Query Log Analysis ReverseGeocode

Input Data

ID

Organization

Address 5177 AV DE WESTBURY MONTREAL QC H3W 2W2, CAN

Locality

AdministrativeArea

PostalCode

Country

OutputScript

MaxResults

PreferPrimaryValidAlias

Clear Options Clear Input Clear Output Process

Output

Address 5177 Av De Westbury Montreal QC H3W 2W2

Latitude 45.539156

Longitude -73.598970

Accuracy A2

Distance 29430.8

Map This Location

Process Status: psOK

Server Status: ssOK

2021Q3.0

The two different input addresses now verified to the same Thoroughfare record in RD.

Input 1

Loqate Demonstration UI v2.39.1.15377-0102a77

GKR Verify Autocomplete Query Log Analysis ReverseGeocode

Input Data

ID

Organization

Address 5177 Westbury Ave. Montreal, QC, H3W 2W2

Locality

AdministrativeArea

PostalCode

Country

OutputScript

MaxResults

PreferPrimaryValidAlias

Clear Options Clear Input Clear Output Process

Output

Address 5177 Av De Westbury Montreal QC H3W 2W2

Latitude 45.539156

Longitude -73.598970

Accuracy A2

Distance 29430.8

Map This Location

Process Status: psOK

Server Status: ssOK

Input 2

Loqate Demonstration UI v2.39.1.15377-0102a77

GKR Verify Autocomplete Query Log Analysis ReverseGeocode

Input Data

ID

Organization

Address 5177 AV DE WESTBURY MONTREAL QC H3W 2W2

Locality

AdministrativeArea

PostalCode

Country

OutputScript

MaxResults

PreferPrimaryValidAlias

Clear Options Clear Input Clear Output Process

Output

Address 5177 Av De Westbury Montreal QC H3W 2W2

Latitude 45.539156

Longitude -73.598970

Accuracy A2

Distance 29430.8

Map This Location

Process Status: psOK

Server Status: ssOK

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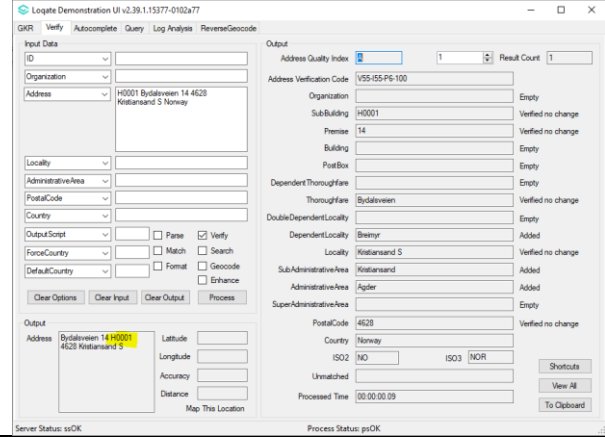
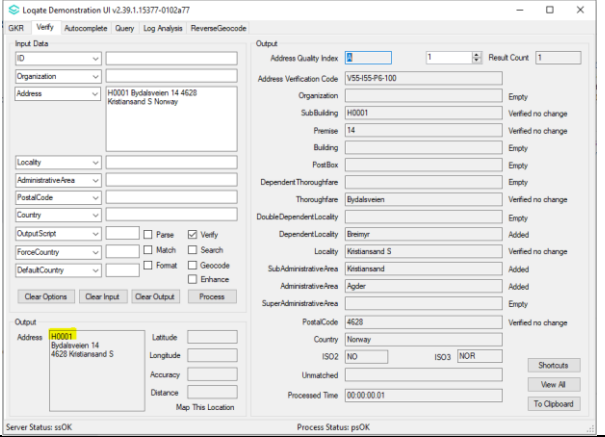


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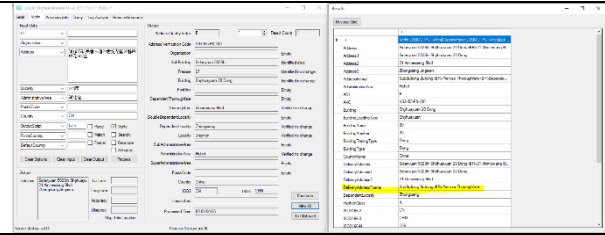
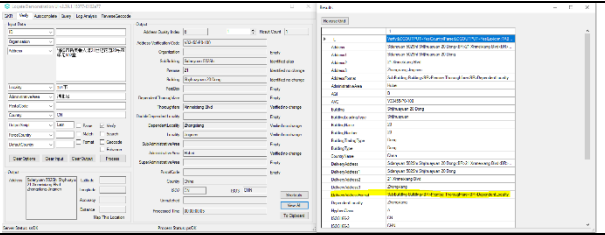
Norway

From the 2021Q3.0 major release, the address format has changed in order to better align with the postal authority. If the SubBuilding information is available, the SubBuilding will appear before the Thoroughfare and Premise.

2021Q2.1		2021Q3.0	
Address format:	Organization PostBox Building Thoroughfare Premise SubBuilding DependentThoroughfare PostalCode Locality	Address format:	Organization PostBox Building SubBuilding Thoroughfare Premise DependentThoroughfare PostalCode Locality
			

China

For China addresses, if the output is in Latin script, the DeliveryAddress field should include the DependentLocality element which is consistent with the DeliveryAddress field when the output is in Native script.

2021Q2.1		2021Q3.0	
DeliveryAddress format in Latin:	PostBox SubBuilding Building PremiseDependentThoroughfareThoroughfare DoubleDependentLocality	DeliveryAddress format in Latin:	PostBox SubBuilding Building PremiseDependentThoroughfareThoroughfare DoubleDependentLocality DependentLocality
			

Afghanistan (L2)

Country Information	Description
ISO2	AF
ISO3	AFG
Address Format	Organization PostBox Building SubBuilding Thoroughfare Premise DependentThoroughfare DoubleDependentLocality DependentLocality Locality
PDH	YES
PDH completed date	2021Q3.0
New Source	NO
Reference Data Pre-PDH	rd_AF_ai.lfs rd_AF.lfs rd_AF_rg.lfs
Reference Data Post-PDH	rd_AF_ggg.lfs rd_AF_ggg_rg.lfs rd_AF_vfy_ai.lfs rd_AF_vfy.lfs

In this release improvements have been made to the verification results within the Thoroughfare field.

2021Q2.1	2021Q3.0
Thoroughfare was not verified.	Thoroughfare is now verified.

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Country Information	Description
ISO2	BJ
ISO3	BEN
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality
PDH	YES
PDH completed date	2021Q3.0
New Source	NO
Reference Data Pre-PDH	rd_BJ.lfs rd_BJ_ai.lfs rd_BJ_rg.lfs
Reference Data Post-PDH	rd_BJ_vfy.lfs rd_BJ_vfy_ai.lfs rd_BJ_ggg.lfs rd_BJ_ggg_rg.lfs

With the 2021Q3.0 major release, improvements are made in the SubAdministrativeArea and AdministrativeArea fields.

2021Q2.1

No SubAdministrativeArea and AdministrativeArea

Logate Demonstration UI v2.34.1.14634-5960ec9

GRRVerifyAutocompleteQueryLog AnalysisReverseGeocode

Input Data

ID

Organization

Address2 RUE DU PONT BENIN - ZINVE

Locality

AdministrativeArea

PostalCode

CountryBenin

OutputScript

ForceCountry

DefaultCountry

Clear Options

Clear Input

Clear Output

Process

Output

Address Quality Index

Address Verification CodeV22-144-PG-100

Organization

SubBuilding

Premise2

Building

PostBox

DependentThoroughfare

ThoroughfareRue Du Pont

DoubleDependentLocality

DependentLocality

LocalityZinve

Sub-AdministrativeArea

AdministrativeArea

Super-AdministrativeArea

PostalCode

CountryBenin

ISO2BJ

ISO3BEN

Unmatched

Processed Time00:00:00.01

Spots

Verify All

To Clipboard

Latitude

Longitude

Accuracy

Distance

Map This Location

Server Status: ssOK

Process Status: psOK

2021Q3.0

Added SubAdministrativeArea and AdministrativeArea.

Logate Demonstration UI v2.34.1.14634-5960ec9

GRRVerifyAutocompleteQueryLog AnalysisReverseGeocode

Input Data

ID

Organization

Address2 RUE DU PONT BENIN - ZINVE

Locality

AdministrativeArea

PostalCode

CountryBenin

OutputScript

ForceCountry

DefaultCountry

Clear Options

Clear Input

Clear Output

Process

Output

Address Quality Index

Address Verification CodeV22-144-PG-100

Organization

SubBuilding

Premise2

Building

PostBox

DependentThoroughfare

ThoroughfareRue Du Pont

DoubleDependentLocality

DependentLocality

LocalityZinve

Sub-AdministrativeAreaAbomey Calavi

AdministrativeAreaAtlantique

Super-AdministrativeArea

PostalCode

CountryBenin

ISO2BJ

ISO3BEN

Unmatched

Processed Time00:00:00.01

Spots

Verify All

To Clipboard

Latitude

Longitude

Accuracy

Distance

Map This Location

Server Status: ssOK

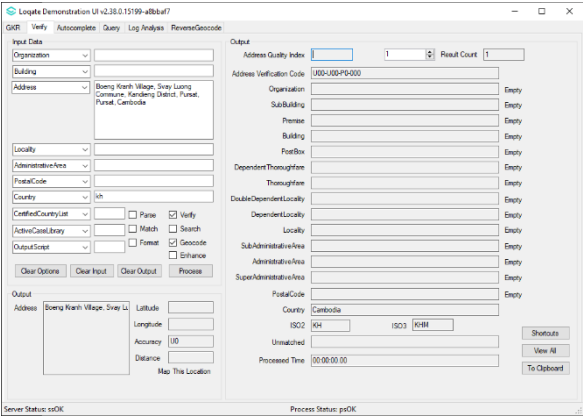
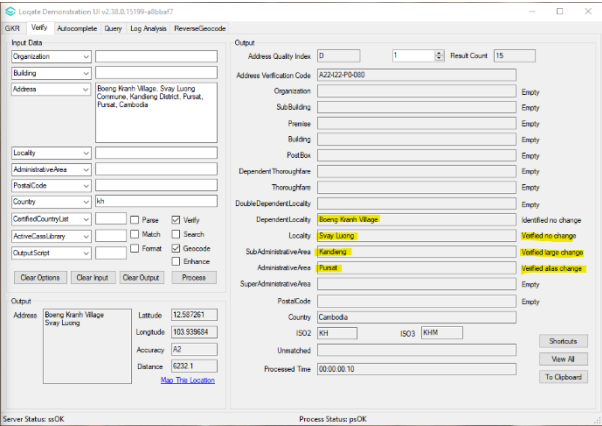
Process Status: psOK

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Country Information	Description
ISO2	KH
ISO3	KHM
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality AdministrativeArea PostalCode
PDH	YES
PDH completed date	2021Q3.0
New Source	NO
Reference Data Pre-PDH	rd_KH.lfs rd_KH_ai.lfs rd_KH_rg.lfs
Reference Data Post-PDH	rd_KH_vfy.lfs rd_KH_vfy_ai.lfs rd_KH_ggg.lfs rd_KH_ggg_rg.lfs

Prior to the 2021Q3.0 major release, there were limitations with parsing that may have caused low verification results for addresses in Cambodia. With the 2021Q3.0 major release, improvements are made to the parse results and provides higher verification results to addresses in Cambodia.

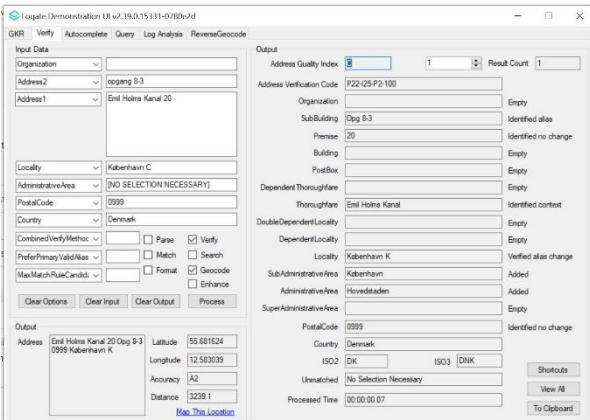
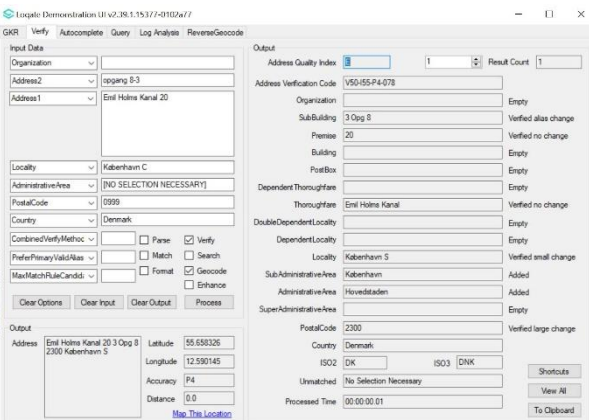
2021Q2.1	2021Q3.0
Previously limitation in parsing and causing low verification.	Improved parsing and better verify accuracy.
	



Denmark (L5)

Country Information	Description
ISO2	DK
ISO3	DNK
Address Format	Organization PostBox Building Thoroughfare Premise SubBuilding DependentThoroughfare DoubleDependentLocality DependentLocality PostalCode Locality
PDH	YES
PDH completed date	2021Q3.0
New Source	YES
Reference Data Pre-PDH	rd_DK_ggg.lfs rd_DK_ggg_rg.lfs rd_DK_vfy_ai.lfs rd_DK_vfy.lfs
Reference Data Post-PDH	rd_DK_ggg.lfs rd_DK_ggg_rg.lfs rd_DK_vfy_ai.lfs rd_DK_vfy.lfs

In this release, improvements have been made to the verification results within the SubBuilding, Premise, and Thoroughfare fields.

2021Q2.1	2021Q3.0
Thoroughfare, Premise and SubBuilding is not verified. 	Thoroughfare, Premise and SubBuilding are now verified. 

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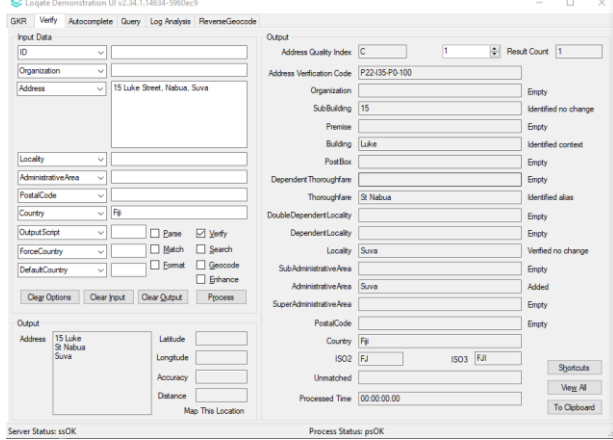
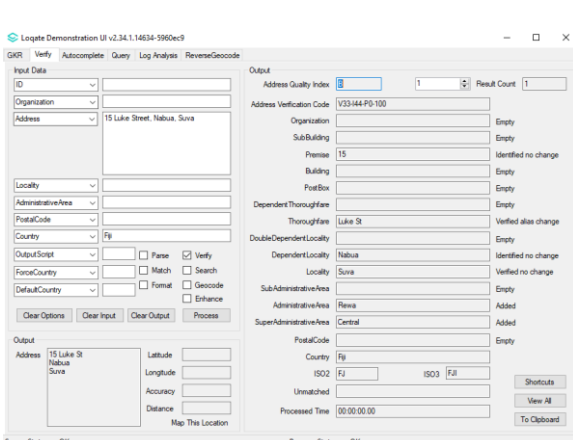


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Country Information	Description
ISO2	FJ
ISO3	FJI
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality
PDH	YES
PDH completed date	2021Q3.0
New Source	NO
Reference Data Pre-PDH	rd_FJ.lfs rd_FJ_ai.lfs rd_FJ_rg.lfs
Reference Data Post-PDH	rd_FJ_vfy.lfs rd_FJ_vfy_ai.lfs rd_FJ_ggg.lfs rd_FJ_ggg_rg.lfs

With the 2021Q3.0 major release, improvements have been made to the verification results within the SuperAdministrativeArea and AdministrativeArea fields.

2021Q2.1	2021Q3.0
No SuperAdministrativeArea; Incorrect AdministrativeArea returned. 	Added SuperAdministrativeArea; correct AdministrativeArea returned. 

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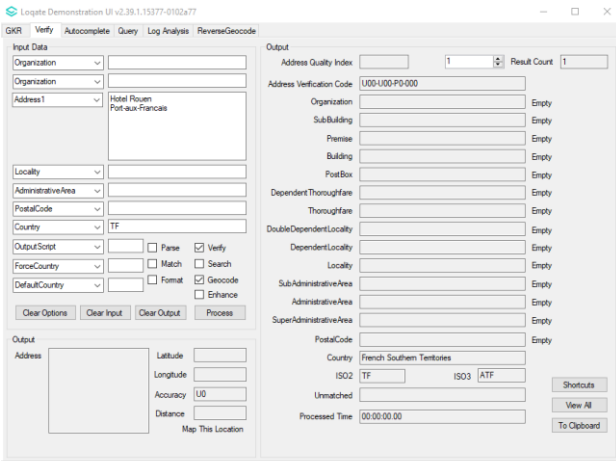
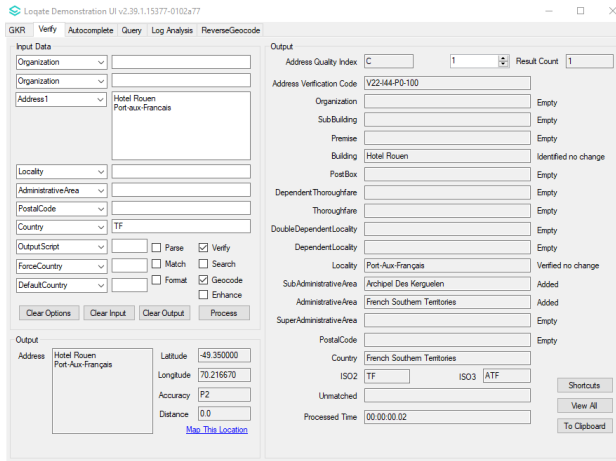
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French Southern Territories (L2)

Country Information	Description
ISO2	TF
ISO3	ATF
Address Format	Organization PostBox Building SubBuilding Thoroughfare Premise DependentThoroughfare DoubleDependentLocality DependentLocality PostalCode Locality
PDH	YES
PDH completed date	2021Q3.0
New Source	NO
Reference Data Pre-PDH	rd_TF.lfs rd_TF_ai.lfs rd_TF_rg.lfs
Reference Data Post-PDH	rd_TF_vfy.lfs rd_TF_vfy_ai.lfs rd_TF_ggg.lfs rd_TF_ggg_rg.lfs

In this release, improvements have been made to the verification results of addresses in the French Southern Territories.

2021Q2.1	2021Q3.0
Address unable to verify.	Address now able to be verified with correct hierarchy.
	

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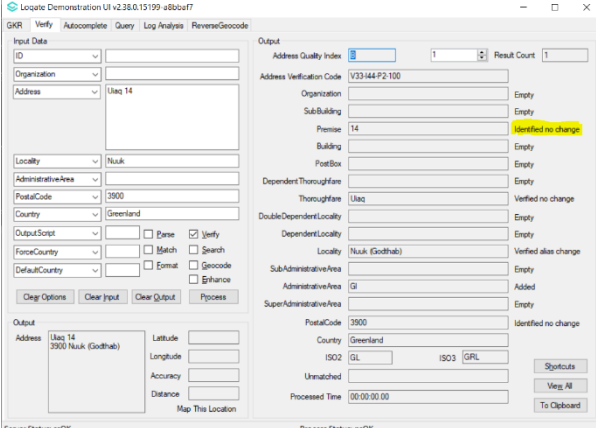
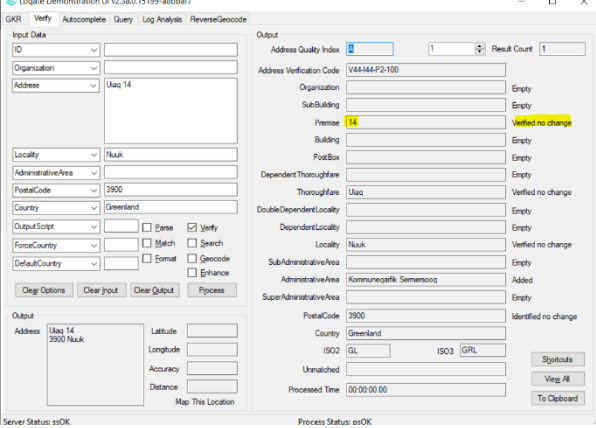


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Country Information	Description
ISO2	GL
ISO3	GRL
Address Format	Organization PostBox Building SubBuilding Thoroughfare Premise DependentThoroughfare DoubleDependentLocality DependentLocality PostalCode Locality
PDH	YES
PDH completed date	2021Q3.0
New Source	YES
Reference Data Pre-PDH	rd_GL_ai.lfs rd_GL.lfs rd_GL_rg.lfs
Reference Data Post-PDH	rd_GL_ggg.lfs rd_GL_ggg_rg.lfs rd_GL_vfy_ai.lfs rd_GL_vfy.lfs

Improvements are made within the Premise field in the 2021Q3.0 major release.

2021Q2.1	2021Q3.0
Premise not available in reference data.	Premise is now verified.
	

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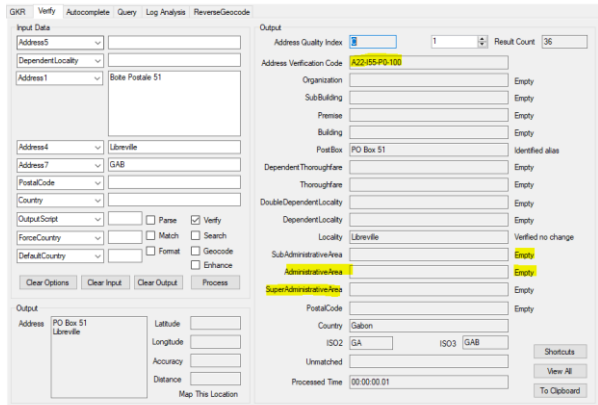
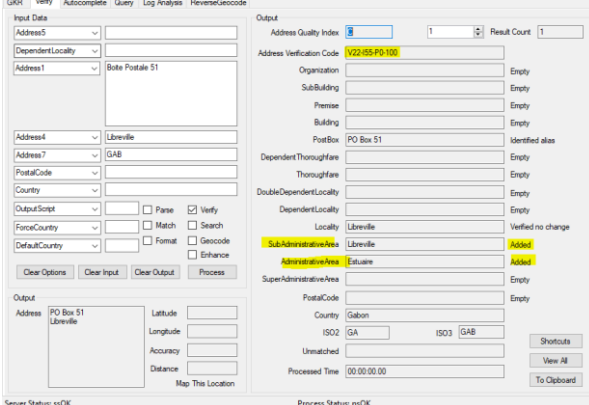
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Country Information	Description
ISO2	GA
ISO3	GAB
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality
PDH	YES
PDH completed date	2021Q3.0
New Source	YES
Reference Data Pre-PDH	rd_GA_ai.lfs rd_GA.lfs rd_GA_rg.lfs
Reference Data Post-PDH	rd_GA_ggg.lfs rd_GA_ggg_rg.lfs rd_GA_vfy_ai.lfs rd_GA_vfy.lfs

In this release, improvements have been made to the AdministrativeArea and SubAdministrativeArea fields. With these updates, the AVC results and fieldStatus have also improved.

2021Q2.1	2021Q3.0
Some records returned ambiguous due to AdministrativeArea and SubAdministrativeArea unable to verify with field status: added. 	Records AdministrativeArea and SubAdministrativeArea are now able to be verify with field status: added. 

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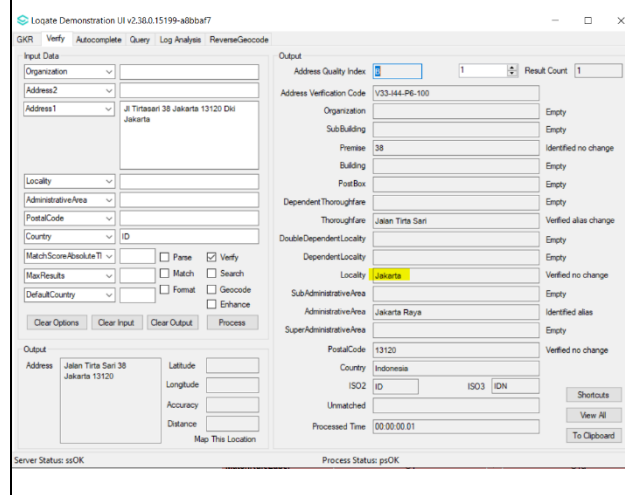
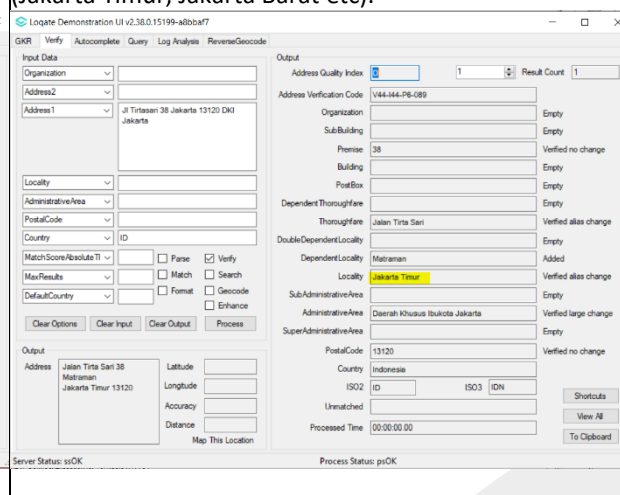


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Country Information	Description
ISO2	ID
ISO3	IDN
Address Format	Organization PostBox Building SubBuilding Thoroughfare Premise DependentThoroughfare DoubleDependentLocality DependentLocality Locality PostalCode
PDH	YES
PDH completed date	2021Q3.0
New Source	YES
Reference Data Pre-PDH	rd_ID_geo.lfs rd_ID_geop.lfs rd_ID_geop_rg.lfs rd_ID_geo_rg.lfs rd_ID_vfy_ai.lfs rd_ID_vfy.lfs
Reference Data Post-PDH	rd_ID_ggg.lfs rd_ID_ggg_rg.lfs rd_ID_ggg_r.lfs rd_ID_vfy_ai.lfs rd_ID_vfy.lfs

From the 2021Q3.0 major release, the PDH process has vastly improved the parsing results with addresses in Indonesia. The Locality: Jakarta will now include the corresponding directional in the verification results.

2021Q2.1	2021Q3.0
Input locality Jakarta verified as Jakarta.	Input locality Jakarta verified as Jakarta directional (Jakarta Timur, Jakarta Barat etc).
 The screenshot shows the Loqate Demonstration UI v2.38.0.15199-a8bba7f. The 'Input Data' section has 'Address1' set to 'Jl Tirtasari 38 Jakarta 13120 DKI Jakarta'. The 'Output' section shows 'Locality' as 'Jakarta' and 'PostalCode' as '13120'. The 'Address Verification Code' is 'V33-444-P6-100'. The 'Process Status' is 'psOK'.	 The screenshot shows the Loqate Demonstration UI v2.38.0.15199-a8bba7f. The 'Input Data' section has 'Address1' set to 'Jl Tirtasari 38 Jakarta 13120 DKI Jakarta'. The 'Output' section shows 'Locality' as 'Jakarta Timur' and 'PostalCode' as '13120'. The 'Address Verification Code' is 'V44-444-P6-089'. The 'Process Status' is 'psOK'.

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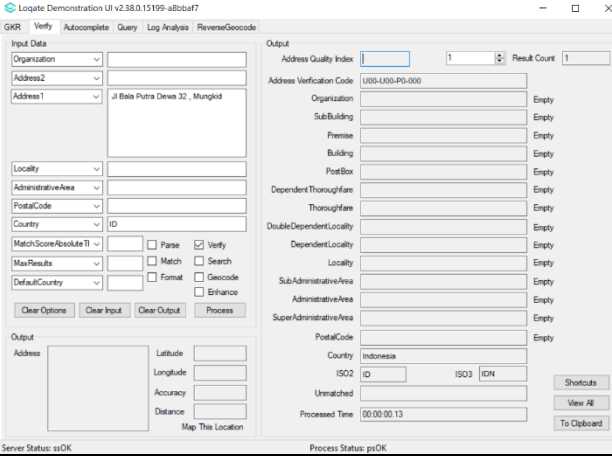
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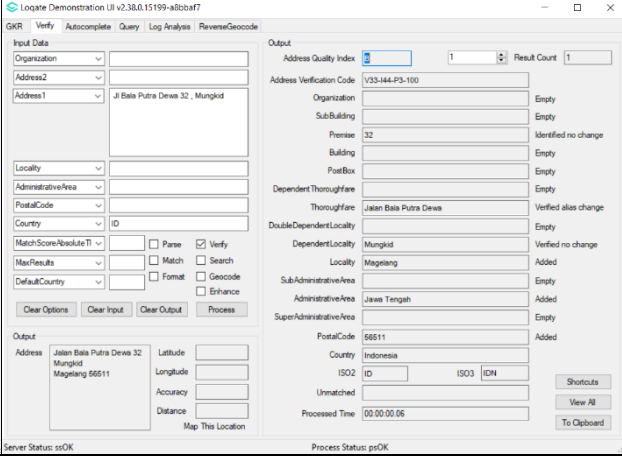
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Address unable to be parsed.



Address able to be parsed and verified. Major parsing improvement.



Iran (L2)

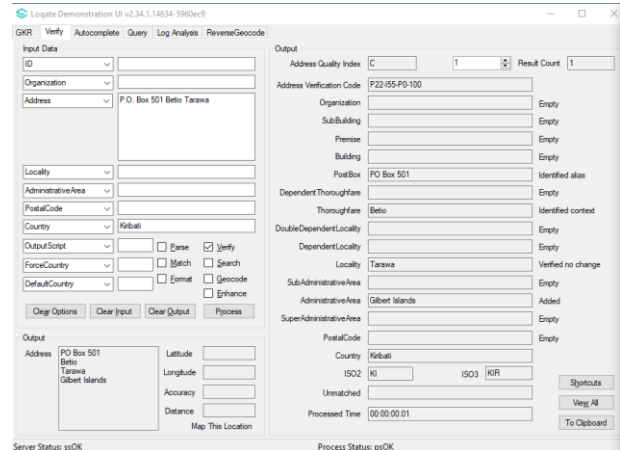
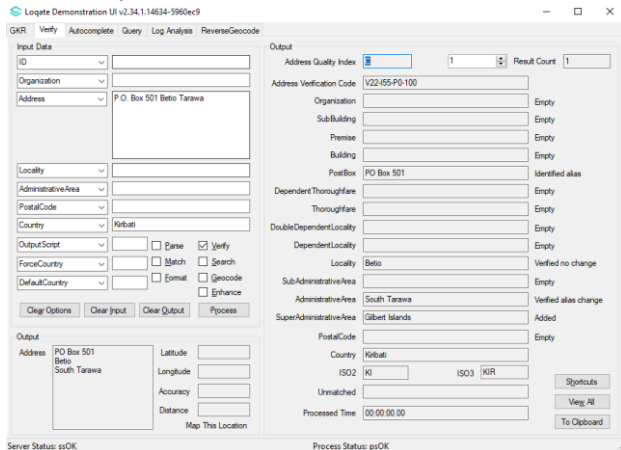
Country Information	Description
ISO2	IR
ISO3	IRN
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality PostalCode Locality AdministrativeArea
PDH	YES
PDH completed date	2021Q3.0
New Source	NO
Reference Data Pre-PDH	rd_IR.lfs rd_IR_ai.lfs rd_IR_rg.lfs
Reference Data Post-PDH	rd_IR_vfy.lfs rd_IR_vfy_ai.lfs rd_IR_ggg.lfs rd_IR_ggg_rg.lfs

In this release, improvements have been made to the verification results within the AdministrativeArea field.

Kiribati (L3)

Country Information	Description
ISO2	KI
ISO3	KIR
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality AdministrativeArea
PDH	YES
PDH completed date	2021Q3.0
New Source	NO
Reference Data Pre-PDH	rd_KI.lfs rd_KI_ai.lfs rd_KI_rg.lfs
Reference Data Post-PDH	rd_KI_vfy.lfs rd_KI_vfy_ai.lfs rd_KI_ggg.lfs rd_KI_ggg_rg.lfs

In the 2021Q3.0 major release, improvements have been made to the verification results within the thoroughfare field.

2021Q2.1	2021Q3.0
Betio incorrectly parsed. 	Betio correctly parsed and verified. Better hierarchy. 

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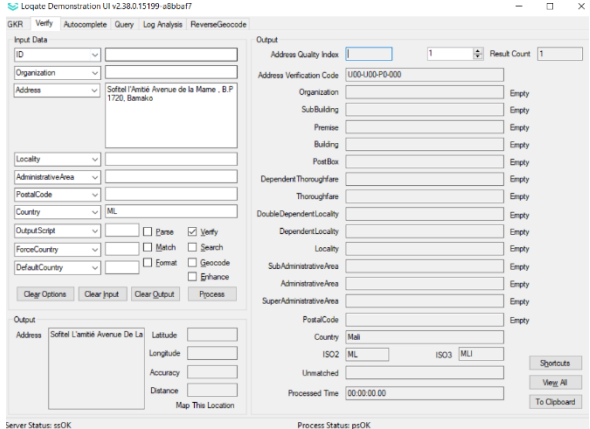
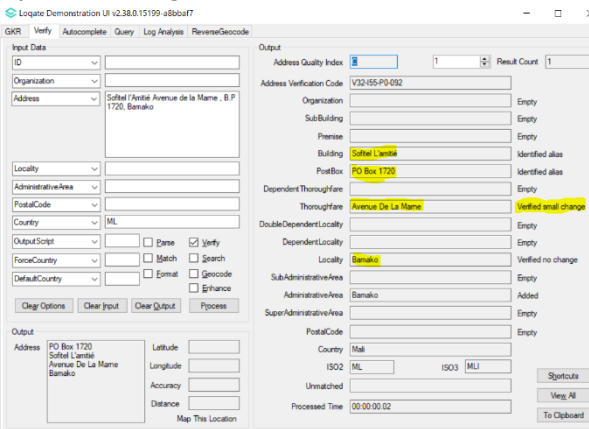
INVESTORS
IN PEOPLE



Mali (L3)

Country Information	Description
ISO2	ML
ISO3	MLI
Address Format	Organization PostBox Building SubBuilding Thoroughfare Premise DependentThoroughfare DoubleDependentLocality DependentLocality Locality
PDH	YES
PDH completed date	2021Q3.0
New Source	NO
Reference Data Pre-PDH	rd_ML_ai.lfs rd_ML.lfs rd_ML_rg.lfs
Reference Data Post-PDH	rd_ML_ggg.lfs rd_ML_ggg_rg.lfs rd_ML_vfy_ai.lfs rd_ML_vfy.lfs

In this release, improvements have been made to the parse results and addresses are able to verify up to the Thoroughfare level.

2021Q2.1	2021Q3.0
Address unable to parse correctly resulting in U0 	Parsing improved and address able to verify up to thoroughfare level 

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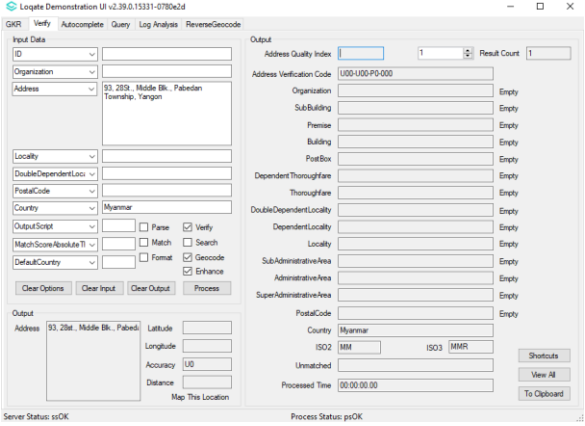
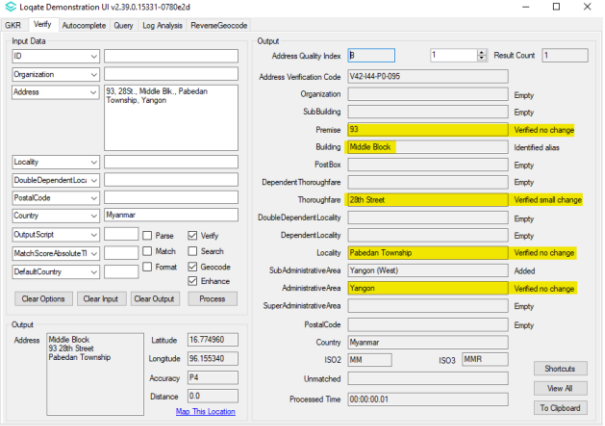


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Country Information	Description
ISO2	MM
ISO3	MMR
Address Format	Organization PostBox Building SubBuilding Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality PostalCode
PDH	YES
PDH completed date	2021Q3.0
New Source	NO
Reference Data Pre-PDH	rd_MM_ai.lfs rd_MM.lfs rd_MM_rg.lfs
Reference Data Post-PDH	rd_MM_ggg.lfs rd_MM_ggg_rg.lfs rd_MM_vfy_ai.lfs rd_MM_vfy.lfs

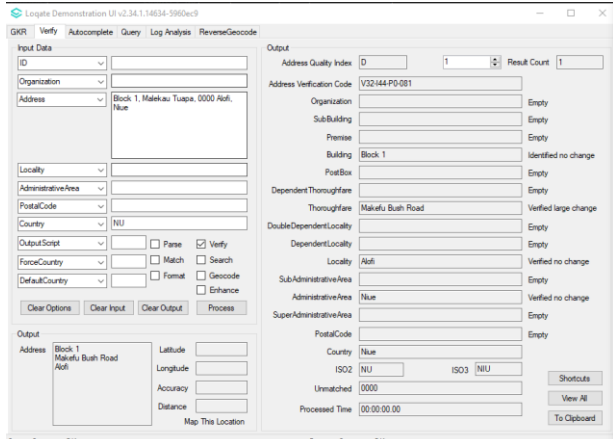
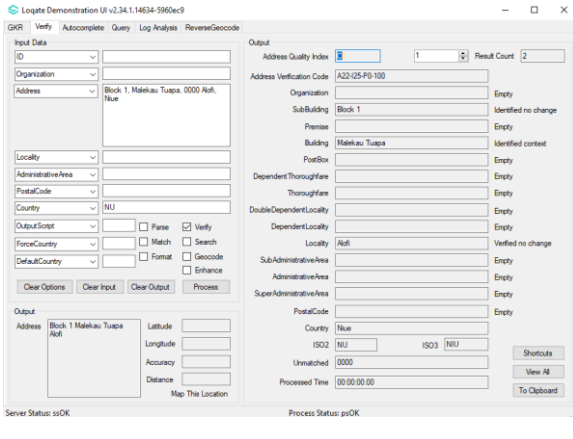
With this release, improvements have been made to the parse results and addresses are able to verify up to the Thoroughfare and Premise level.

2021Q2.1	2021Q3.0
Address unable to parse correctly resulting in U0	Parsing improved and address able to verify up to thoroughfare and premise level
	



Country Information	Description
ISO2	NU
ISO3	NIU
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality
PDH	YES
PDH completed date	2021Q3.0
New Source	NO
Reference Data Pre-PDH	rd_NU.lfs rd_NU_ai.lfs rd_NU_rg.lfs
Reference Data Post-PDH	rd_NU_vfy.lfs rd_NU_vfy_ai.lfs rd_NU_ggg.lfs rd_NU_ggg_rg.lfs

With this release, improvements have been made to the verification of the AdministrativeArea field.

2021Q2.1	2021Q3.0
Niue is an AdministrativeArea 	Niue no longer an AdministrativeArea 

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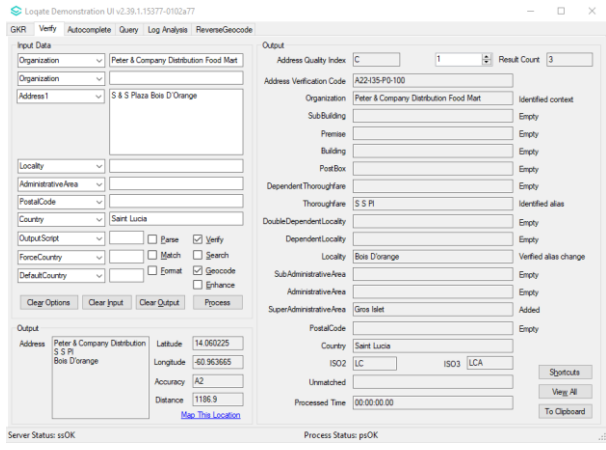
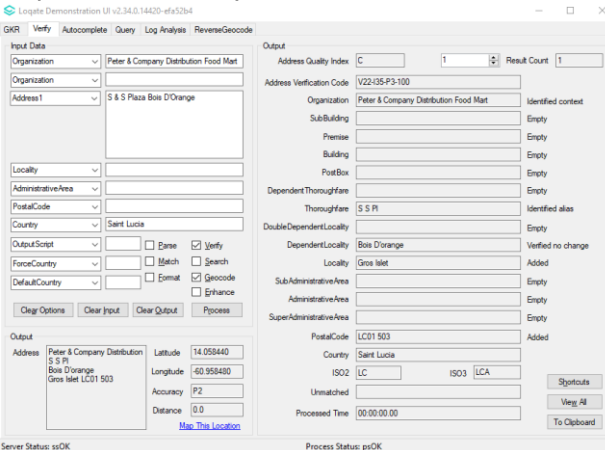
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Country Information	Description
ISO2	LC
ISO3	LCA
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality PostalCode
PDH	YES
PDH completed date	2021Q3.0
New Source	NO
Reference Data Pre-PDH	rd_LC_vfy.lfs rd_LC_vfy_ai.lfs rd_LC_ggg.lfs rd_LC_ggg_rg.lfs
Reference Data Post-PDH	rd_LC_vfy.lfs rd_LC_vfy_ai.lfs rd_LC_ggg.lfs rd_LC_ggg_rg.lfs

In this release, improvements have been made to the alignment between Locality and DependentLocality fields. Improvements are made to the verification results within the PostalCode field.

2021Q2.1	2021Q3.0
Contains incorrect hierarchy.	Corrected the hierarchy with Locality and DependentLocality. PostalCode is added now.
 The screenshot shows the Logate Demonstration UI for Saint Lucia. The input data is 'Peter & Company Distribution Food Mart' and 'S & S Plaza Bois D'Orange'. The output shows a hierarchy where 'Bois D'Orange' is under 'Locality' and 'Gros Islet' is under 'SuperAdministrativeArea'. The 'PostalCode' field is empty. The 'Address Verification Code' is 'A22-135-P0-100'.	 The screenshot shows the Logate Demonstration UI for Saint Lucia. The input data is 'Peter & Company Distribution Food Mart' and 'S & S Plaza Bois D'Orange'. The output shows a corrected hierarchy where 'Bois D'Orange' is under 'DependentLocality' and 'Gros Islet' is under 'Locality'. The 'PostalCode' field is now populated with 'LC01 503'. The 'Address Verification Code' is 'V22-05-P3-100'.

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Country Information	Description
ISO2	WS
ISO3	WSM
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality
PDH	YES
PDH completed date	2021Q3.0
New Source	NO
Reference Data Pre-PDH	rd_WS.lfs rd_WS_ai.lfs rd_WS_rg.lfs
Reference Data Post-PDH	rd_WS_vfy.lfs rd_WS_vfy_ai.lfs rd_WS_ggg.lfs rd_WS_ggg_rg.lfs

This release provides improvements to the verification results within the AdministrativeArea and SubAdministrativeArea fields.

2021Q2.1

Incorrect AdministrativeArea returned.

The screenshot shows the Loqate Demonstration UI for version v2.39.1.15377-0102a77. The input data is '161 St Samoa'. The output shows 'AdministrativeArea' as 'Samoa' and 'SubAdministrativeArea' as 'Samoa'. The 'Address Verification Code' is 'V32-03-P0-096'. The 'Country' is 'Samoa' and 'ISO3' is 'WSM'. The 'Process Status' is 'psOK'.

2021Q3.0

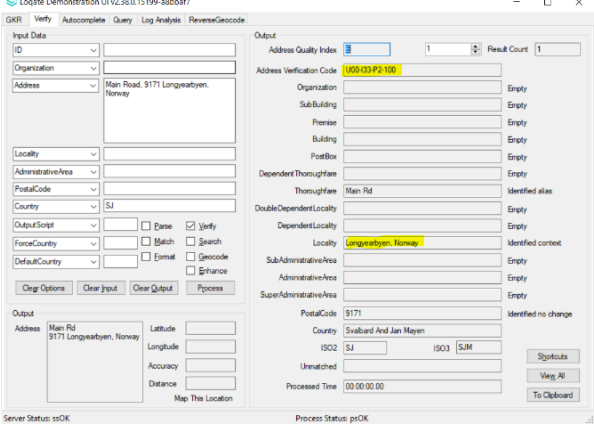
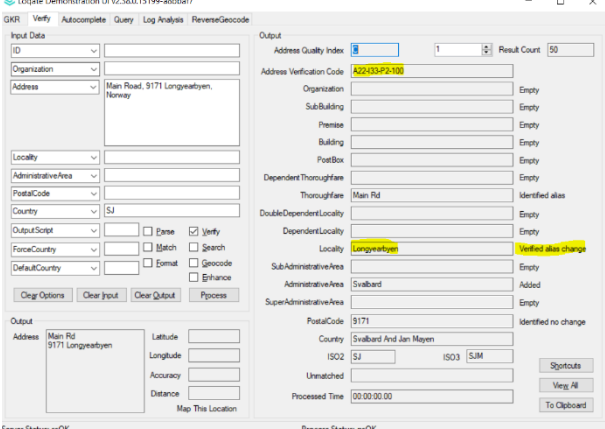
Correct AdministrativeArea returned, and SubAdministrativeArea added.

The screenshot shows the Loqate Demonstration UI for version v2.39.1.15377-0102a77. The input data is '161 St Samoa'. The output shows 'AdministrativeArea' as 'Samoa' and 'SubAdministrativeArea' as 'Vaimauga West'. The 'Address Verification Code' is 'V32-03-P0-074'. The 'Country' is 'Samoa' and 'ISO3' is 'WSM'. The 'Process Status' is 'psOK'.



Country Information	Description
ISO2	SJ
ISO3	SJM
Address Format	Organization PostBox Building SubBuilding Thoroughfare Premise DependentThoroughfare DoubleDependentLocality DependentLocality PostalCode Locality
PDH	YES
PDH completed date	2021Q3.0
New Source	NO
Reference Data Pre-PDH	rd_SJ_ai.lfs rd_SJ.lfs rd_SJ_rg.lfs
Reference Data Post-PDH	rd_SJ_ggg.lfs rd_SJ_ggg_rg.lfs rd_SJ_vfy_ai.lfs rd_SJ_vfy.lfs

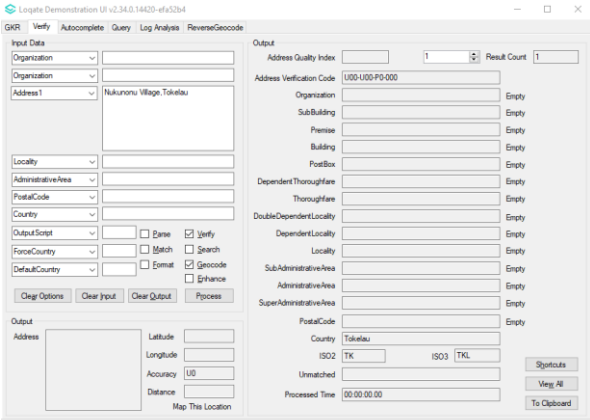
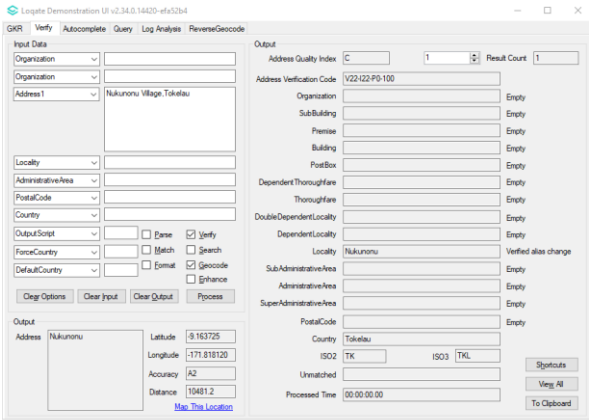
This release provides improvements to the parse results, and verification results within the Locality field.

2021Q2.1	2021Q3.0
Address unable to parse correctly resulting in U0	Parsing improved and locality able to be verified.
	

Tokelau (L3)

Country Information	Description
ISO2	TK
ISO3	TKL
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality
PDH	YES
PDH completed date	2021Q3.0
New Source	NO
Reference Data Pre-PDH	rd_TK.lfs rd_TK_ai.lfs rd_TK_rg.lfs
Referenec Data Post-PDH	rd_TK_vfy.lfs rd_TK_vfy_ai.lfs rd_TK_ggg.lfs rd_TK_ggg_rg.lfs

This release provides improvements to the verification results of addresses in Tokelau.

2021Q2.1	2021Q3.0
Address unable to verify.	Address now able to be verified.
	

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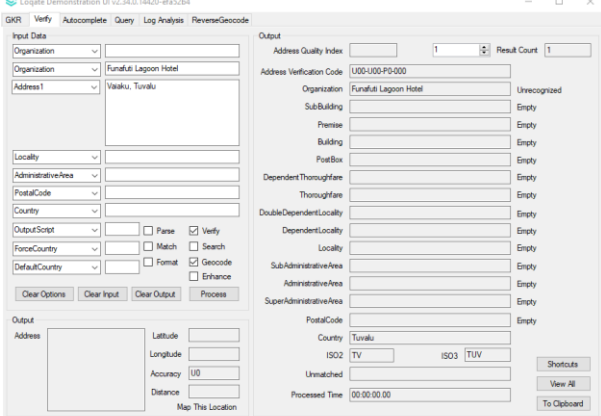
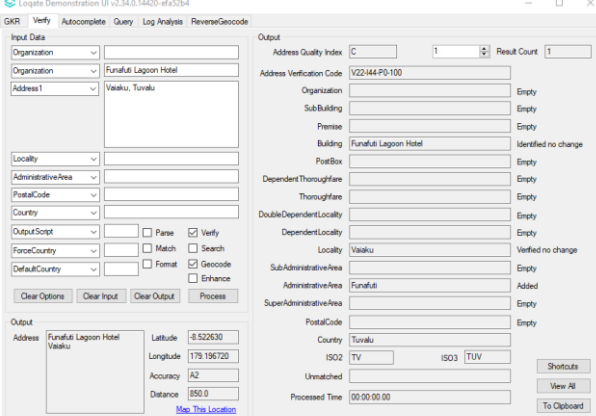
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Tuvalu (L3)

Country Information	Description
ISO2	TV
ISO3	TUV
Address Format	Organization PostBox Building SubBuilding Thoroughfare Premise DependentThoroughfare DoubleDependentLocality DependentLocality Locality
PDH	YES
PDH completed date	2021Q3.0
New Source	NO
Reference Data Pre-PDH	rd_TV.lfs rd_TV_ai.lfs rd_TV_rg.lfs
Reference Data Post-PDH	rd_TV_vfy.lfs rd_TV_vfy_ai.lfs rd_TV_ggg.lfs rd_TV_ggg_rg.lfs

In this release, improvements are made to the verification results of addresses in Tuvalu.

2021Q2.1	2021Q3.0
Address unable to verify.	Address now able to be verified.
	

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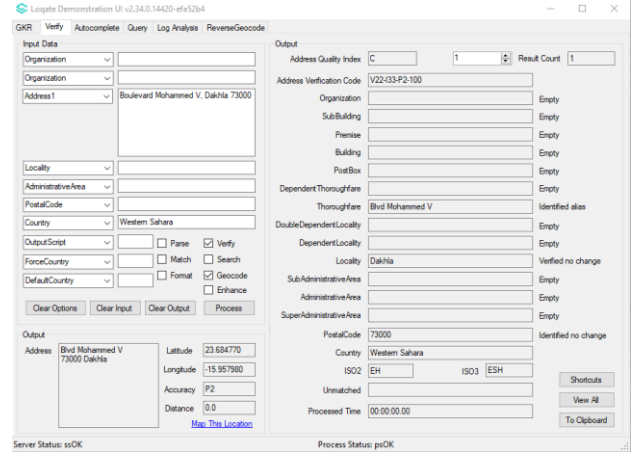
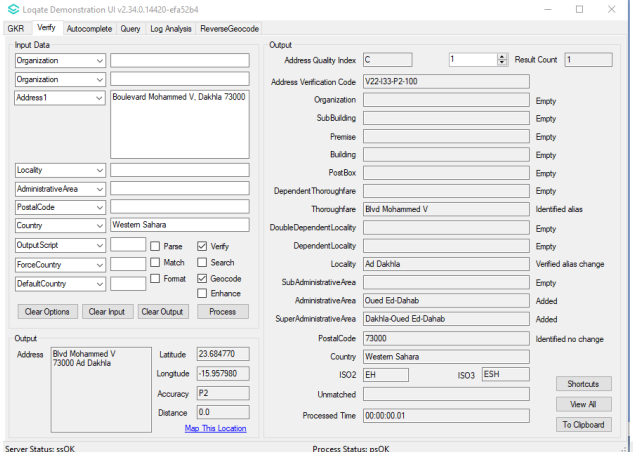
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Western Sahara (L3)

Country Information	Description
ISO2	EH
ISO3	ESH
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality PostalCode Locality
PDH	YES
PDH completed date	2021Q3.0
New Source	NO
Reference Data Pre-PDH	rd_EH_vfy.lfs rd_EH_vfy_ai.lfs rd_EH_ggg.lfs rd_EH_ggg_rg.lfs
Reference Data Post-PDH	rd_EH_vfy.lfs rd_EH_vfy_ai.lfs rd_EH_ggg.lfs rd_EH_ggg_rg.lfs

This release provides additional SubAdministrativeArea and AdministrativeArea.

2021Q2.1	2021Q3.0
No SubAdministrativeArea and AdministrativeArea.	Added SubAdministrativeArea and AdministrativeArea.
	

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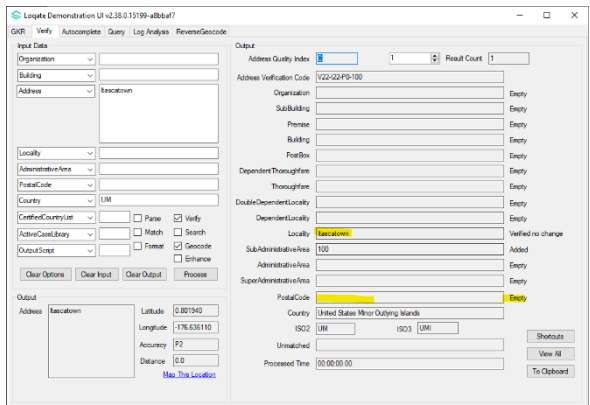
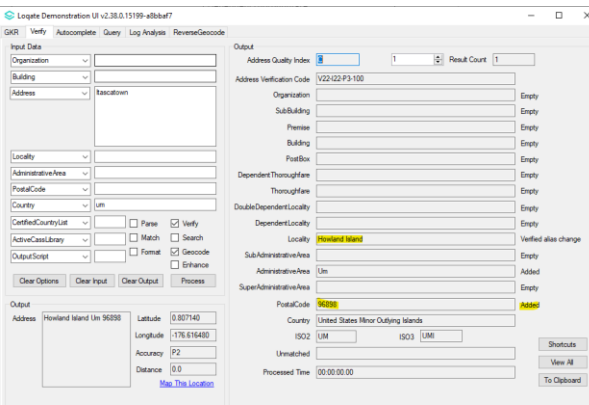
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United States Minor Outlying Islands (L2)

Country Information	Description
ISO2	UM
ISO3	UMI
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality AdministrativeArea PostalCode
PDH	YES
PDH completed date	2021Q3.0
New Source	NO
Reference Data Pre-PDH	rd_UM.lfs rd_UM_ai.lfs rd_UM_rg.lfs
Reference Data Post-PDH	rd_UM_vfy.lfs rd_UM_vfy_ai.lfs rd_UM_ggg.lfs rd_UM_ggg_rg.lfs

In this release, improvements are made with the verification results in the SubAdministrativeArea and PostalCode fields.

2021Q2.1	2021Q3.0
No PostalCode found and old name was used. Incorrect SubAdministrativeArea added. 	PostalCode added now with new name. Incorrect SubAdministrativeArea no longer added. 

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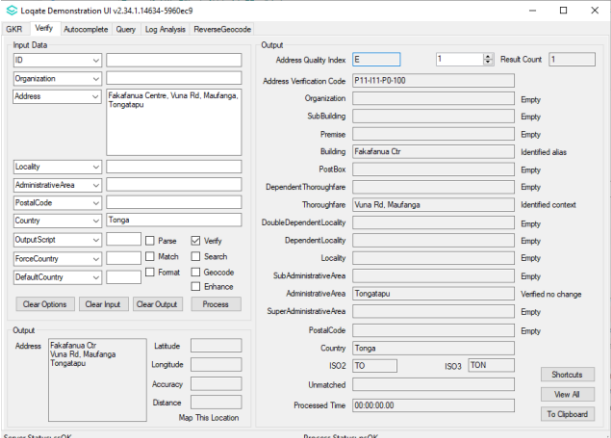
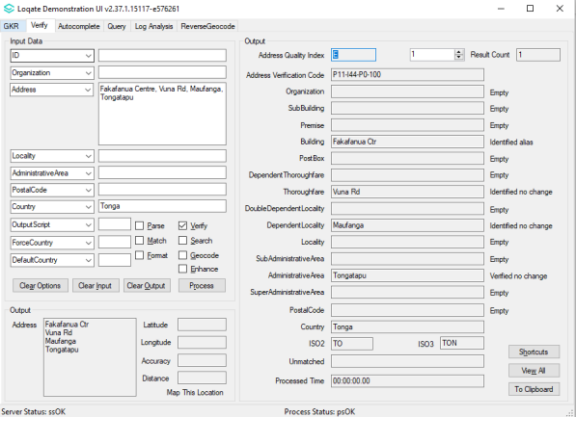
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Country Information	Description
ISO2	TO
ISO3	TON
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality AdministrativeArea
PDH	YES
PDH completed date	2021Q3.0
New Source	NO
Reference Data Pre-PDH	rd_TO.lfs rd_TO_ai.lfs rd_TO_rg.lfs
Reference Data Post-PDH	rd_TO_vfy.lfs rd_TO_vfy_ai.lfs rd_TO_ggg.lfs rd_TO_ggg_rg.lfs

In this release, the alignment within the Thoroughfare and DependentLocality fields have improved.

2021Q2.1	2021Q3.0
Maufanga incorrectly parsed to thoroughfare.	Maufanga correctly parsed to DependentLocality field.
	



Knowledge Base & Reference Data Updates

The table below shows which countries have been updated, and how, in this release.
If there is a PDH in the reference data column, this shows a country was included in the country improvement project.

- **Reference Data:** 118 countries
- **Lexicon:** 6 countries
- **Context Rules:** 35 countries

COUNTRY NAME	ISO CODE	CONTEXT RULES	LEXICONS	REFERENCE DATA
ANDORRA	AD			
UNITED ARAB EMIRATES	AE			
AFGHANISTAN	AF		X	X
ANTIGUA AND BARBUDA	AG			
ANGUILLA	AI			
ALBANIA	AL			X
ARMENIA	AM			
ANGOLA	AO			
ANTARCTICA	AQ			
ARGENTINA	AR			
AMERICAN SAMOA	AS			X
AUSTRIA	AT			
AUSTRALIA	AU		X	X
ARUBA	AW			
ÅLAND ISLANDS	AX			
AZERBAIJAN	AZ			
BOSNIA AND HERZEGOVINA	BA			
BARBADOS	BB			
BANGLADESH	BD			
BELGIUM	BE			
BURKINA FASO	BF			
BULGARIA	BG			
BAHRAIN	BH			
BURUNDI	BI			
BENIN	BJ		X	X
SAINT BARTHÉLEMY	BL			
BERMUDA	BM			
BRUNEI DARUSSALAM	BN			
BOLIVIA (PLURINATIONAL STATE OF)	BO			
BONAIRE, SINT EUSTATIUS AND SABA	BQ			
BRAZIL	BR			
BAHAMAS	BS			
BHUTAN	BT			
BOUVET ISLAND	BV			
BOTSWANA	BW			X

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BELARUS	BY			
BELIZE	BZ			
CANADA	CA		X	X
COCOS (KEELING) ISLANDS	CC			
CONGO, DEMOCRATIC REPUBLIC OF THE	CD			X
CENTRAL AFRICAN REPUBLIC	CF			X
CONGO	CG			X
SWITZERLAND	CH			
CÔTE D'IVOIRE	CI			X
COOK ISLANDS	CK			
CHILE	CL			
CAMEROON	CM			X
CHINA	CN			
COLOMBIA	CO			
COSTA RICA	CR			X
CUBA	CU			X
CABO VERDE	CV			X
CURAÇAO	CW			
CHRISTMAS ISLAND	CX			
CYPRUS	CY			
CZECHIA	CZ			
GERMANY	DE	X	X	
DJIBOUTI	DJ			X
DENMARK	DK		X	X
DOMINICA	DM			
DOMINICAN REPUBLIC	DO			
ALGERIA	DZ			X
ECUADOR	EC			
ESTONIA	EE			
EGYPT	EG			
WESTERN SAHARA	EH		X	X
ERITREA	ER			X
SPAIN	ES		X	
ETHIOPIA	ET			X
FINLAND	FI			
FIJI	FJ		X	X
FALKLAND ISLANDS (MALVINAS)	FK			X
MICRONESIA (FEDERATED STATES OF)	FM			X
FAROE ISLANDS	FO			X
FRANCE	FR	X	X	
GABON	GA		X	X
UNITED KINGDOM	GB		X	X
GRENADA	GD			
GEORGIA	GE			X
FRENCH GUIANA	GF			X

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GUERNSEY	GG			X
GHANA	GH			X
GIBRALTAR	GI			
GREENLAND	GL		X	X
GAMBIA	GM			
GUINEA	GN			X
GUADELOUPE	GP			X
EQUATORIAL GUINEA	GQ			X
GREECE	GR			
SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS	GS			
GUATEMALA	GT			X
GUAM	GU			X
GUINEA-BISSAU	GW			X
GUYANA	GY			
HONG KONG	HK	X	X	
HEARD ISLAND AND MCDONALD ISLANDS	HM			
HONDURAS	HN			
CROATIA	HR			X
HAITI	HT			
HUNGARY	HU			
INDONESIA	ID		X	X
IRELAND	IE			
ISRAEL	IL			
ISLE OF MAN	IM			X
INDIA	IN		X	X
BRITISH INDIAN OCEAN TERRITORY	IO			
IRAQ	IQ			
IRAN	IR		X	X
ICELAND	IS			X
ITALY	IT		X	X
JERSEY	JE			X
JAMAICA	JM			
JORDAN	JO			X
JAPAN	JP			
KENYA	KE			X
KYRGYZSTAN	KG			X
CAMBODIA	KH	X	X	X
KIRIBATI	KI		X	X
COMOROS	KM			
SAINT KITTS AND NEVIS	KN			
KOREA (DEMOCRATIC PEOPLE'S REPUBLIC OF)	KP			
KOREA, REPUBLIC OF	KR			
KUWAIT	KW			X
CAYMAN ISLANDS	KY			

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INVESTORS
IN PEOPLE



KAZAKHSTAN	KZ			
LAO PEOPLE'S DEMOCRATIC REPUBLIC	LA			X
LEBANON	LB			X
SAINT LUCIA	LC		X	X
LIECHTENSTEIN	LI			X
SRI LANKA	LK			X
LIBERIA	LR			X
LESOTHO	LS			X
LITHUANIA	LT			
LUXEMBOURG	LU			
LATVIA	LV			
LIBYA	LY			X
MOROCCO	MA			X
MONACO	MC			
MOLDOVA, REPUBLIC OF	MD			
MONTENEGRO	ME			X
SAINT MARTIN (FRENCH PART)	MF			X
MADAGASCAR	MG			X
MARSHALL ISLANDS	MH			
NORTH MACEDONIA	MK			
MALI	ML		X	X
MYANMAR	MM		X	X
MONGOLIA	MN			
MACAO	MO			
NORTHERN MARIANA ISLANDS	MP			
MARTINIQUE	MQ			X
MAURITANIA	MR			X
MONTSERRAT	MS			
MALTA	MT			
MAURITIUS	MU			X
MALDIVES	MV			X
MALAWI	MW			X
MEXICO	MX			
MALAYSIA	MY		X	
MOZAMBIQUE	MZ			X
NAMIBIA	NA			X
NEW CALEDONIA	NC			X
NIGER	NE			X
NORFOLK ISLAND	NF			X
NIGERIA	NG			X
NICARAGUA	NI			
NETHERLANDS	NL		X	
NORWAY	NO			
NEPAL	NP			X
NAURU	NR			

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NIUE	NU		X	X
NEW ZEALAND	NZ			
OMAN	OM			X
PANAMA	PA			
PERU	PE			
FRENCH POLYNESIA	PF			X
PAPUA NEW GUINEA	PG			
PHILIPPINES	PH	X	X	X
PAKISTAN	PK			X
POLAND	PL			
SAINT PIERRE AND MIQUELON	PM			
PITCAIRN	PN			
PUERTO RICO	PR			X
PALESTINE, STATE OF	PS			
PORTUGAL	PT			
PALAU	PW			
PARAGUAY	PY			
QATAR	QA			X
RÉUNION	RE			X
ROMANIA	RO			
SERBIA	RS			
RUSSIAN FEDERATION	RU			
RWANDA	RW			X
SAUDI ARABIA	SA			
SOLOMON ISLANDS	SB			X
SEYCHELLES	SC			X
SUDAN	SD			
SWEDEN	SE			
SINGAPORE	SG			
SAINT HELENA, ASCENSION AND TRISTAN DA CUNHA	SH			X
SLOVENIA	SI			
SVALBARD AND JAN MAYEN	SJ		X	X
SLOVAKIA	SK			X
SIERRA LEONE	SL			X
SAN MARINO	SM			
SENEGAL	SN			X
SOMALIA	SO			
SURINAME	SR			
SOUTH SUDAN	SS			
SAO TOME AND PRINCIPE	ST			X
EL SALVADOR	SV			X
SINT MAARTEN (DUTCH PART)	SX			
SYRIAN ARAB REPUBLIC	SY			
SWAZILAND	SZ			X

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IN PEOPLE



TURKS AND CAICOS ISLANDS	TC			X
CHAD	TD			
FRENCH SOUTHERN TERRITORIES	TF		X	X
TOGO	TG			X
THAILAND	TH			X
TAJIKISTAN	TJ			
TOKELAU	TK		X	X
TIMOR-LESTE	TL		X	
TURKMENISTAN	TM			X
TUNISIA	TN			X
TONGA	TO		X	X
TURKEY	TR			
TRINIDAD AND TOBAGO	TT			
TUVALU	TV		X	X
TAIWAN	TW			
TANZANIA, UNITED REPUBLIC OF	TZ			X
UKRAINE	UA			
UGANDA	UG			
UNITED STATES MINOR OUTLYING ISLANDS	UM		X	X
UNITED STATES OF AMERICA	US	X	X	X
URUGUAY	UY			
UZBEKISTAN	UZ			X
VATICAN CITY	VA			X
SAINT VINCENT AND THE GRENADINES	VC			
VENEZUELA (BOLIVARIAN REPUBLIC OF)	VE			
VIRGIN ISLANDS (BRITISH)	VG			X
VIRGIN ISLANDS (U.S.)	VI			X
VIET NAM	VN			
VANUATU	VU			
WALLIS AND FUTUNA	WF			
SAMOA	WS			X
YEMEN	YE			X
MAYOTTE	YT			X
SOUTH AFRICA	ZA			
ZAMBIA	ZM			X
ZIMBABWE	ZW			X

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