

Loqate, A GBG Solution

Release Notes – Verify API

2021Q4.0_Major Release

Case Resolutions

Please visit <https://support.loqate.com/release-information/2021q4-0-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.

Local API Notices

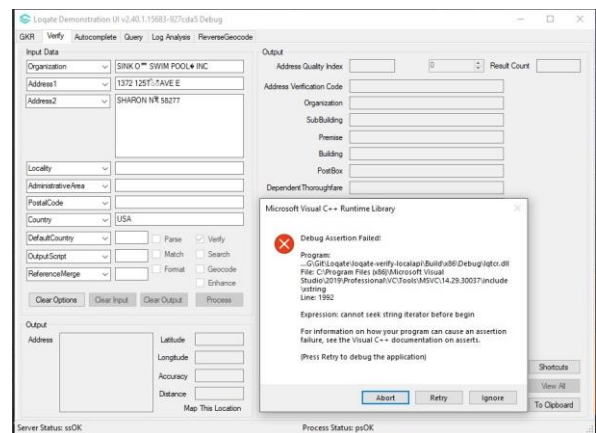
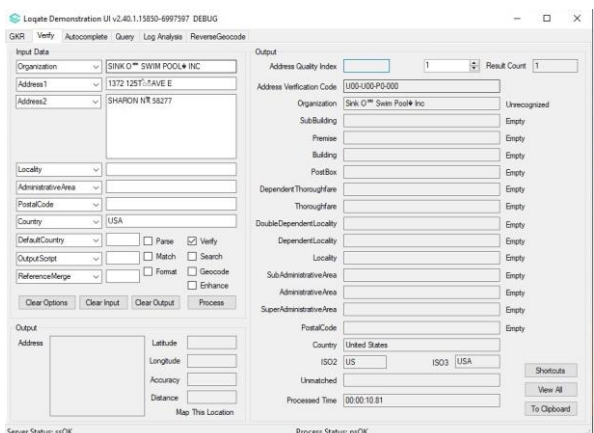
Advance notice on release 2021Q4.1 due to release on 1st December 2021

This is to inform our customers that the 2021Q4.1 release will include some performance improvements over the current releases. We wanted to provide advance notice so you can plan your upgrades effectively.

Local API Improvements

Verify Improvements

Users may have received an error message when using unexpected Unicode input addresses for input characters within the Windows64 platform only; this is now resolved in the 2021Q4.0 major release. In place of receiving an error message, the engine will return an AVC result of U00 for corrupted Unicode input addresses.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
	
2021Q3.1: Crash occurs with truncated or corrupted Unicode input	2021Q4.0: The engine returns AVC with U00 for corrupted Unicode input

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Verify Improvements

Previously users may have seen use cases where the premise number are being duplicated within the Sub-Building field, this issue is now resolved in the 2021Q4.0 major release.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
2021Q3.1: Premise number is replicated in SubBuilding	2021Q4.0: SubBuilding is distinctive and it does not replicate the premise number

The Pipe character is removed from the DeliveryAddress field in the 2021Q4.0 major release.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)

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Verify: Transliteration

When using the server option: OutputScript=Latn users may have experienced unexpected transliteration results within the building field for the following character scripts: Hang – Hangul (South Korea) and Chinese characters (Hans). This issue is now resolved in the 2021Q4.0 major release.

IMPORTANT NOTE: Users will need to update both 2021Q4.0 API and 2021Q4.0 Data in order to allow all reported issues to produce the expected results.

2021Q3.1 (Before Change)

2021Q4.0 (After Change)

2021Q3.1: Output - Building contains native Korean characters (Hang) that is not transliterated to Latin characters (Latn) when OutputScript=Latn

2021Q4.1: All output especially Building is transliterated to Latin characters (Latn) when OutputScript=Latn

2021Q3.1 (Before Change)

2021Q4.0 (After Change)

2021Q3.1: Output - Building contains native Chinese characters (Hans) that is not transliterated to Latin characters (Latn) when OutputScript=Latn

2021Q4.1: All output especially Building is transliterated to Latin characters (Latn) when OutputScript=Latn

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Installation Instructions

Please remember to update both the program files and the reference data. The improvements are tied to the data in the Global Knowledge Repository and the Local API. When updating the data, it is recommended to use a new data folder each time in order to ensure the latest dataset is installed properly.

If you need any assistance with the upgrade of the Local API or the data update process, please contact [GBG Loqate Support](#).

The setup wizard for the [Local API](#) can be obtained from our SFTP server. Please contact your account manager to retrieve the SFTP information. If you do not know who your account manager is, please contact the support team at LoqateSupport@gbgplc.com.

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Loqate, A GBG Solution

Release Notes – Reference Data & Knowledge Base

2021Q4.0 Major Release

Case Resolutions

Please visit <https://support.loqate.com/release-information/2021q4-0-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	2021-08-13	2021-12-31
CASS Data	2021-09-14	2021-12-29

**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/>

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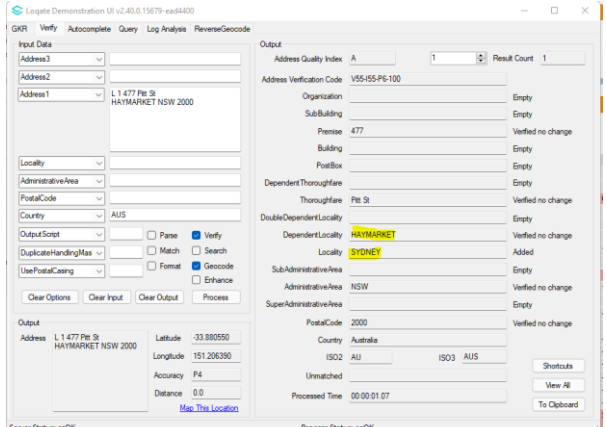
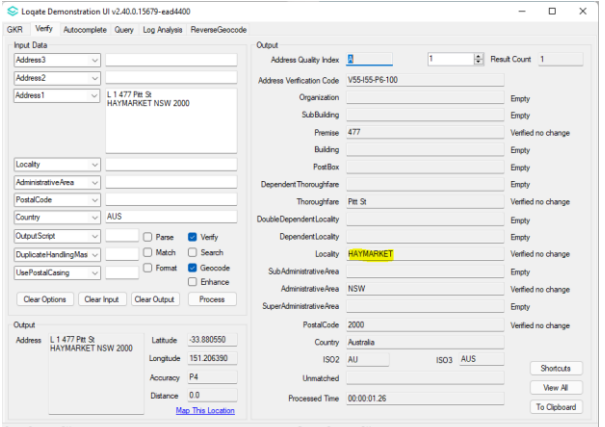
USA Territories - Delayed

In the 2021Q3.1 minor release, it was announced that beginning in the 2021Q4.0 major release, the following countries: Micronesia, Federated States of (ISO2: FM), Marshall Islands (ISO2: MH), and Palau (ISO2: PW) will be removed from the USA data set. Please note this is now delayed and these countries *will not* be removed from the USA data set in the 2021Q4.0 release.

Important note: this has been delayed, Micronesia, Federated States of (ISO2: FM), Marshall Islands (ISO2: MH), and Palau (ISO2: PW) will remain in the USA data set in the 2021Q4.0 major release. We will provide updates when they become available.

Australia

From the 2021Q4.0 major release: the suburb field, defined by Australia Post will be moved back to Locality. The change will only occur in Verify output components; the address lines will be unaffected and will remain compliant with postal standards.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
<p>Haymarket verified as DependentLocality</p> 	<p>Haymarket verified as Locality</p> 

Canada

From the 2021Q4.0 major release, improvements are made within the geocode reference data to resolve the discrepancy users may have seen between verify results and geocoding results.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
<p>List of files:</p> <ul style="list-style-type: none"> rd_CA_ggg.lfs rd_CA_ggg_r1.lfs rd_CA_ggg_r2.lfs rd_CA_ggg_rg.lfs rd_CA_ggg_r.lfs 	<p>List of files:</p> <ul style="list-style-type: none"> rd_CA_ggg.lfs rd_CA_ggg_rg.lfs

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Sample address 1: 2021Q3.1 (Before Change)

Loqate Demonstration UI v2.40.1.15683-927cda5

Input Data: ID, Organization, Address: 15 Water Walk Dr Unit 511, Locality: Univille, AdministrativeArea: ON, PostalCode: L6G 0G2, Country: CA.

Output: Address Quality Index: 8, Address Verification Code: Y55-55-P6-100, Organization: Empty, SubBuilding: Unit 511, Premise: 15, Building: Empty, PostBox: Empty, DependentThoroughfare: Water Walk Dr, Thoroughfare: Verified no change, DoubleDependentLocality: Empty, Locality: Univille, Sub-AdministrativeArea: Markham, AdministrativeArea: ON, Super-AdministrativeArea: Empty, PostalCode: L6G 0G2, Country: Canada, ISO2: CA, ISO3: CAN, Unmatched: Empty, Processed Time: 00:00:01.47.

Output Summary: Address: 15 Water Walk Dr Unit 511, Univille ON L6G 0G2, Latitude: 43.769456, Longitude: -79.133438, Accuracy: A1, Distance: 67884.3.

Server Status: ssOK, Process Status: psOK.

Poor GeoAccuracy – A1 returned

Sample address 2: 2021Q3.1 (Before Change)

Loqate Demonstration UI v2.40.1.15683-927cda5

Input Data: ID, Organization, Address: 124 WELLINGTON STREET, Locality: OTTAWA, AdministrativeArea: ONTARIO, PostalCode: Empty, Country: Canada.

Output: Address Quality Index: 8, Address Verification Code: A33-44-P0-100, Organization: Empty, SubBuilding: Empty, Premise: 124, Building: Empty, PostBox: Empty, DependentThoroughfare: Wellington St, Thoroughfare: Verified alias change, DoubleDependentLocality: Empty, Locality: Ottawa, Sub-AdministrativeArea: Ottawa, AdministrativeArea: ON, Super-AdministrativeArea: Empty, PostalCode: Empty, Country: Canada, ISO2: CA, ISO3: CAN, Unmatched: Empty, Processed Time: 00:00:02.72.

Output Summary: Address: 124 Wellington St, Ottawa ON, Latitude: 43.914810, Longitude: -76.690260, Accuracy: A1, Distance: 223.9.

Server Status: ssOK, Process Status: psOK.

Geocoded Lat/Long is pointing to Thoroughfare in another Locality.

Sample address 1: 2021Q4.0 (After Change)

Loqate Demonstration UI v2.40.1.15683-927cda5

Input Data: ID, Organization, Address: 15 Water Walk Dr Unit 511, Locality: Univille, AdministrativeArea: ON, PostalCode: L6G 0G2, Country: CA.

Output: Address Quality Index: 8, Address Verification Code: Y55-55-P6-100, Organization: Empty, SubBuilding: Unit 511, Premise: 15, Building: Empty, PostBox: Empty, DependentThoroughfare: Water Walk Dr, Thoroughfare: Verified no change, DoubleDependentLocality: Empty, Locality: Univille, Sub-AdministrativeArea: Markham, AdministrativeArea: ON, Super-AdministrativeArea: Empty, PostalCode: L6G 0G2, Country: Canada, ISO2: CA, ISO3: CAN, Unmatched: Empty, Processed Time: 00:00:00.01.

Output Summary: Address: 15 Water Walk Dr Unit 511, Univille ON L6G 0G2, Latitude: 43.769330, Longitude: -79.328020, Accuracy: I4, Distance: 0.0.

Server Status: ssOK, Process Status: psOK.

GeoAccuracy Improvement – I4 returned

Sample address 2: 2021Q4.0 (After Change)

Loqate Demonstration UI v2.40.1.15683-927cda5

Input Data: ID, Organization, Address: 124 WELLINGTON STREET, Locality: OTTAWA, AdministrativeArea: ONTARIO, PostalCode: Empty, Country: Canada.

Output: Address Quality Index: 8, Address Verification Code: A33-44-P0-100, Organization: Empty, SubBuilding: Empty, Premise: 124, Building: Empty, PostBox: Empty, DependentThoroughfare: Wellington St, Thoroughfare: Verified alias change, DoubleDependentLocality: Empty, Locality: Ottawa, Sub-AdministrativeArea: Ottawa, AdministrativeArea: ON, Super-AdministrativeArea: Empty, PostalCode: Empty, Country: Canada, ISO2: CA, ISO3: CAN, Unmatched: Empty, Processed Time: 00:00:00.24.

Output Summary: Address: 124 Wellington St, Ottawa ON, Latitude: 45.422022, Longitude: -75.701276, Accuracy: A3, Distance: 1223.3.

Server Status: ssOK, Process Status: psOK.

Geocoded Lat/Long is pointing to Thoroughfare in the correct Locality.



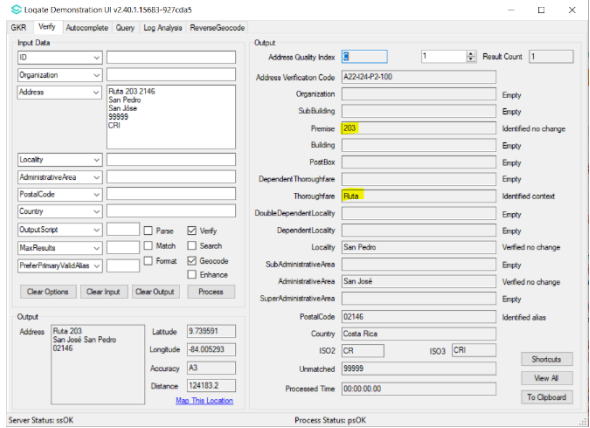
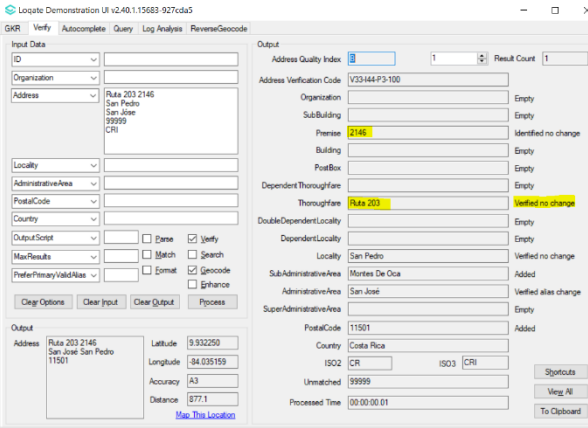
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Costa Rica (L4)

Country Information	Description
ISO2	CR
ISO3	CRI
Address Format	Organization PostBox Building SubBuilding Thoroughfare Premise DependentThoroughfare DoubleDependentLocality DependentLocality AdministrativeArea Locality PostalCode
PDH	YES
PDH completed date	2021Q4.0
New Source	NO
Reference Data Pre-PDH	rd_CR_ai.lfs rd_CR.lfs rd_CR_rg.lfs
Reference Data Post-PDH	rd_CR_ggg.lfs rd_CR_ggg_rg.lfs rd_CR_vfy_ai.lfs rd_CR_vfy.lfs

Improvements have been made to the verification results within the thoroughfare and premise fields.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
Thoroughfare and Premise unable to parse and verify correctly	Thoroughfare and Premise can be parsed now and able to verify.
	

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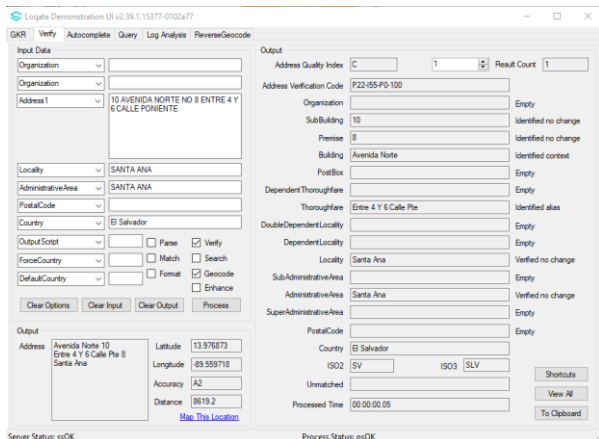
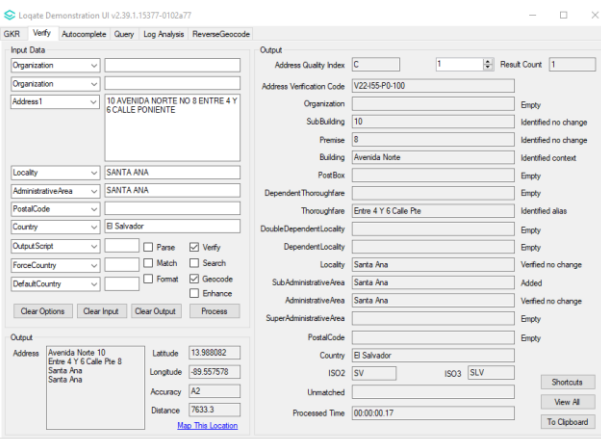
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El Salvador (L3)

Country Information	Description
ISO2	SV
ISO3	SLV
Address Format	Organization PostBox Building SubBuilding Thoroughfare Premise DependentThoroughfare DoubleDependentLocality DependentLocality Locality PostalCode AdministrativeArea
PDH	YES
PDH completed date	2021Q4.0
New Source	NO
Reference Data Pre-PDH	
Reference Data Post-PDH	

Improvements are made to the verification results within the SubAdministrativeArea and the AdministrativeArea fields.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
<p>No SubAdministrativeArea and no AdministrativeArea on output.</p> 	<p>More complete address with output following the correct address format.</p> 

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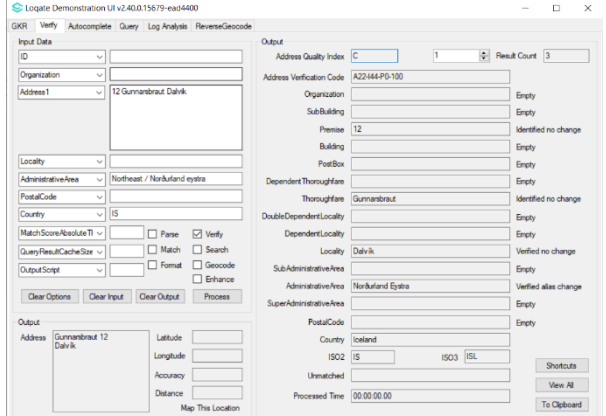
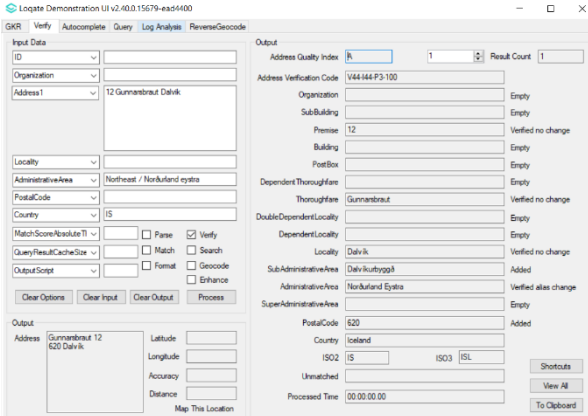
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Iceland (L4)

Country Information	Description
ISO2	IS
ISO3	ISL
Address Format	Organization Postbox Thoroughfare Premise Building SubBuilding DependentThoroughfare DoubleDependentLocality DependentLocality PostalCode Locality
PDH	Yes
PDH Completed Date	2021Q4.0
New Source	NO
Reference Data Pre-PDH	rd_IS.lfs rd_IS_rg.lfs rd_IS_ai.lfs
Reference Data Post-PDH	rd_IS_ggg.lfs rd_IS_ggg_rg.lfs rd_IS_vfy_ai.lfs rd_IS_vfy.lfs

With the 2021Q4.0 major release, improvement can be seen with the verification results within the thoroughfare and premise fields.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
<p>Thoroughfare and Premise not verified</p> 	<p>Thoroughfare and Premise now verified</p> 

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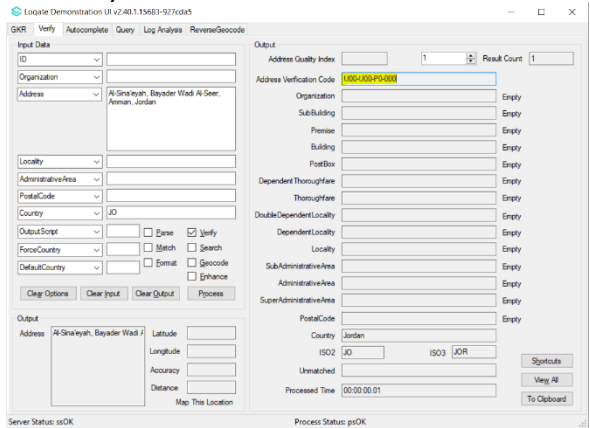
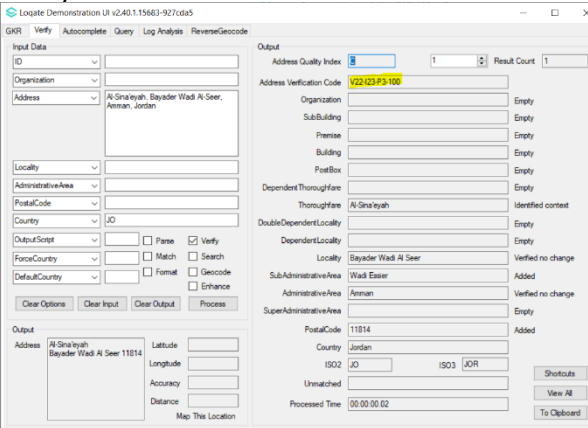
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Country Information	Description
ISO2	JO
ISO3	JOR
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality PostalCode
PDH	YES
PDH completed date	2021Q4.0
New Source	NO
Reference Data Pre-PDH	rd_JO_ai.lfs rd_JO.lfs rd_JO_rg.lfs
Reference Data Post-PDH	rd_JO_ggg.lfs rd_JO_ggg_rg.lfs rd_JO_vfy_ai.lfs rd_JO_vfy.lfs

In the 2021Q4.0 major release, addresses are now verified with higher AVC results.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
Address unable to parse and verify correctly	Address can be parsed now and able to verify.
	

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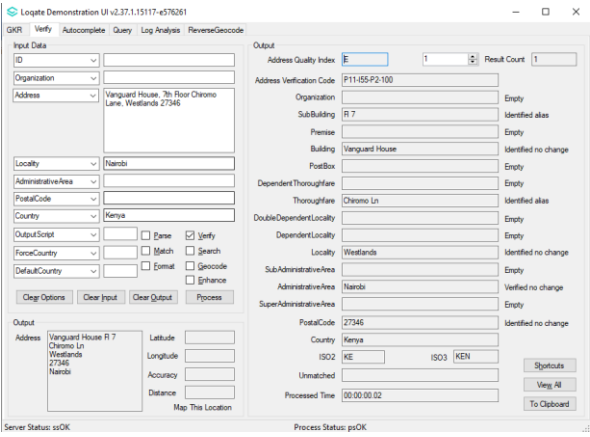
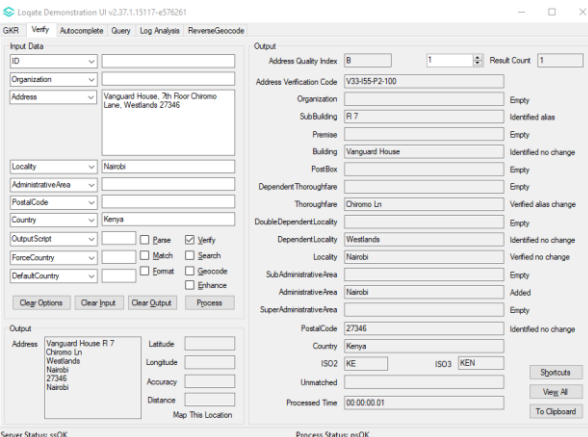
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Kenya (L3)

Country Information	Description
ISO2	KE
ISO3	KEN
Address Format	Organization Building SubBuilding Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality PostalCode AdministrativeArea
PDH	YES
PDH completed date	2021Q4.0
New Source	NO
Reference Data Pre-PDH	rd_KE_vfy.lfs rd_KE_vfy_ai.lfs rd_KE_geo.lfs rd_KE_geo_rg.lfs
Reference Data Post-PDH	rd_KE_vfy.lfs rd_KE_vfy_ai.lfs rd_KE_ggg.lfs rd_KE_ggg_rg.lfs

Previously addresses were only verifiable up to the AdministrativeArea. In the 2021Q4.0 major release, improvements are made to the overall parsing results and higher AVC results are returned.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
<p>Only able to verify up till AdministrativeArea</p> 	<p>Able to parse to correct fields which improve the verification levels</p> 

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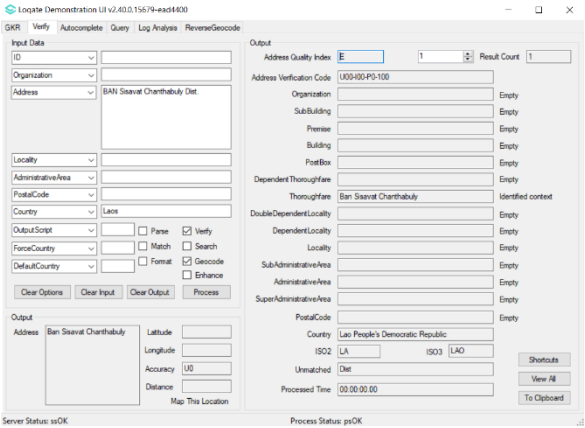
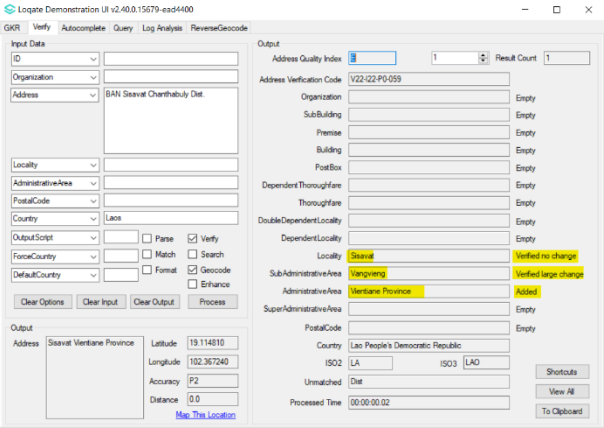
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Lao People's Democratic Republic (L2)

Country Information	Description
ISO2	LA
ISO3	LAO
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality PostalCode, Locality, AdministrativeArea
PDH	YES
PDH completed date	2021Q4.0
New Source	NO
Reference Data Pre-PDH	rd_LA_ai.lfs rd_LA.lfs rd_LA_rg.lfs
Reference Data Post-PDH	rd_LA_ggg.lfs rd_LA_ggg_rg.lfs rd_LA_vfy_ai.lfs rd_LA_vfy.lfs

Previously addresses may have been unverifiable. In the 2021Q4.0 major release, addresses can be verifiable to the Locality level.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
Address cannot be verified.	Locality and SubAdministrativeArea can be verified and AdministrativeArea is added.
	

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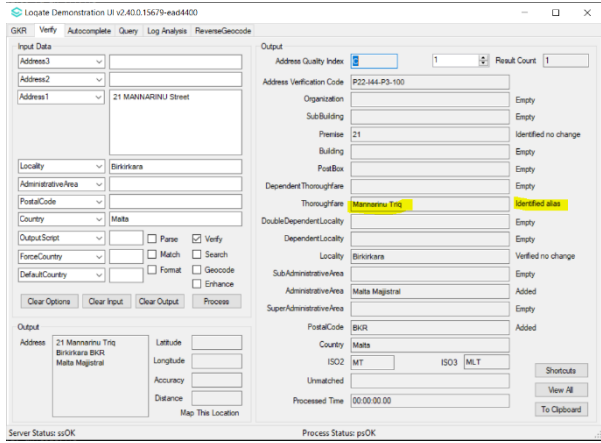
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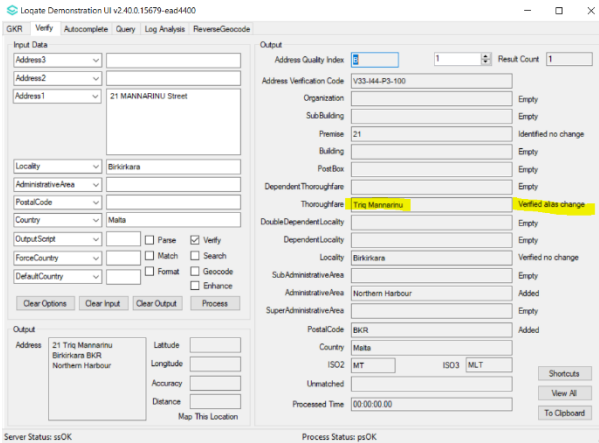


Country Information	Description
ISO2	MT
ISO3	MLT
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality PostalCode AdministrativeArea
PDH	YES
PDH completed date	2021Q4.0
New Source	NO
Reference Data Pre-PDH	rd_MT_ai.lfs rd_MT_geop.lfs rd_MT_geop_rg.lfs rd_MT.lfs rd_MT_rg.lfs
Reference Data Post-PDH	rd_MT_ggg.lfs rd_MT_ggg_rg.lfs rd_MT_vfy_ai.lfs rd_MT_vfy.lfs

With this release, improvements can be seen in the verification results within the thoroughfare field.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
Thoroughfare not verified.	Thoroughfare verified alias change.





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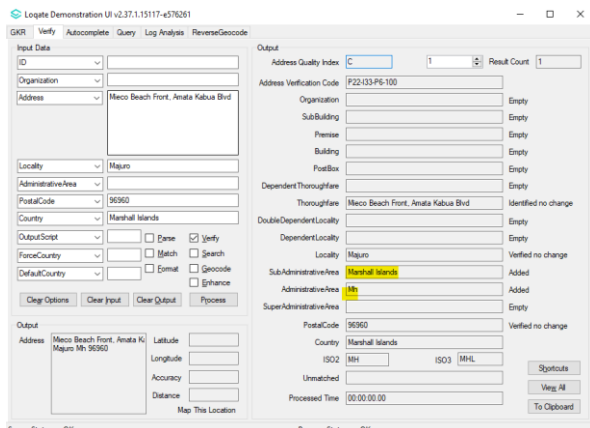
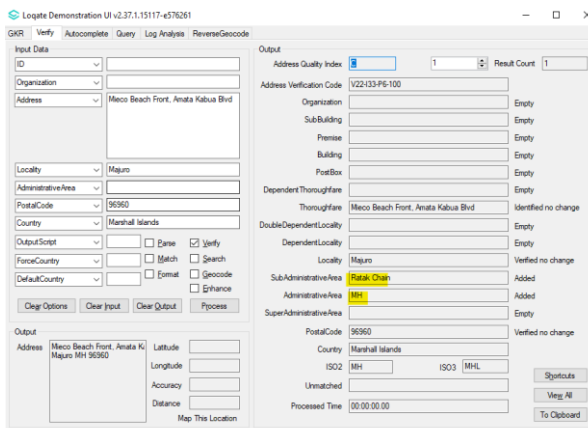
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Marshall Islands (L4)

Country Information	Description
ISO2	MH
ISO3	MHL
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality AdministrativeArea PostalCode
PDH	YES
PDH completed date	2021Q4.0
New Source	NO
Reference Data Pre-PDH	rd_MH_vfy.lfs rd_MH_vfy_ai.lfs rd_MH_geo.lfs rd_MH_geo_rg.lfs
Reference Data Post-PDH	rd_MH_vfy.lfs rd_MH_vfy_ai.lfs rd_MH_ggg.lfs rd_MH_ggg_rg.lfs

In the 2021Q4.0 major release, improvements are made within the SubAdministrativeArea and AdministrativeArea fields.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
<p>"Marshall Islands" was returning as a SubAdministrativeArea Titlecase "Mh" for AdministrativeArea</p> 	<p>Correct SubAdministrativeArea returned instead of "Marshall Island" Uppercase of "MH" for AdministrativeArea</p> 

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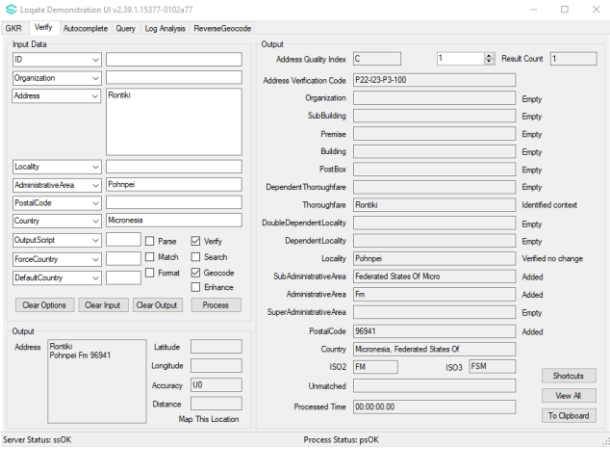
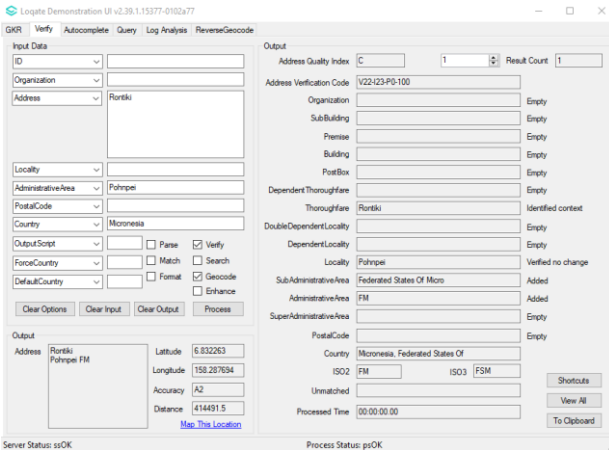
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Micronesia (Federated States of) (L2)

Country Information	Description
ISO2	FM
ISO3	FSM
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality Locality AdministrativeArea PostalCode
PDH	YES
PDH completed date	2021Q4.0
New Source	NO
Reference Data Pre-PDH	rd_FM_vfy.lfs rd_FM_vfy_ai.lfs rd_FM_geo.lfs rd_FM_geo_rg.lfs
Reference Data Post-PDH	rd_FM_vfy.lfs rd_FM_vfy_ai.lfs rd_FM_ggg.lfs rd_FM_ggg_rg.lfs

Improvements are made to the overall verification results and to the address format.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
Unable to verify some of the addresses. Output is not in correct address format.	Able to verify more addresses. Output following the correct address format.
	

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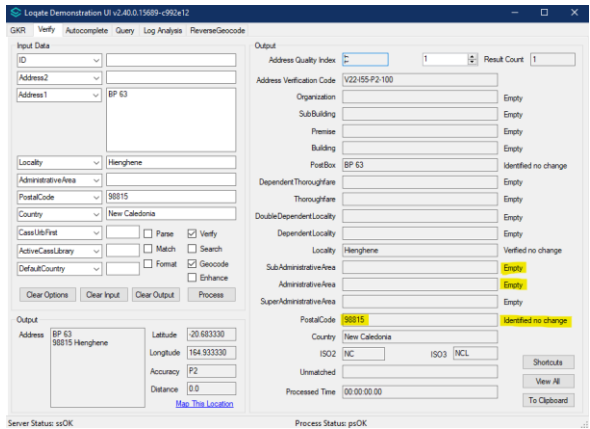
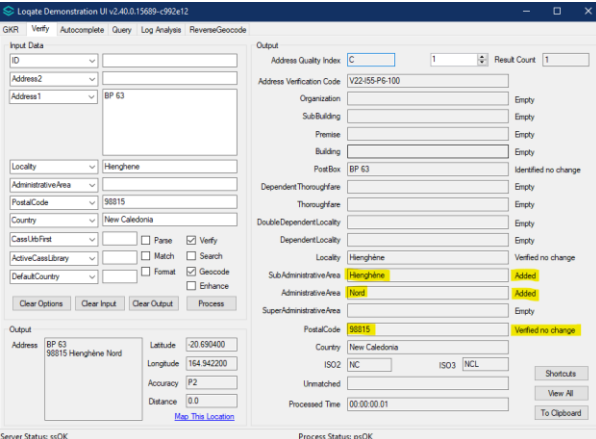
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New Caledonia (L4)

Country Information	Description
ISO2	NC
ISO3	NCL
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality PostalCode Locality AdministrativeArea
PDH	YES
PDH completed date	2021Q4.0
New Source	NO
Reference Data Pre-PDH	rd_NC_ai.lfs rd_NC.lfs rd_NC_rg.lfs
Reference Data Post-PDH	rd_NC_ggg.lfs rd_NC_ggg_rg.lfs rd_NC_vfy_ai.lfs rd_NC_vfy.lfs

In this release, improvements are made to the verification results within the SubAdministrativeArea, AdministrativeArea, and PostalCode fields.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
<p>No SubAdministrativeArea and AdministrativeArea. Postal code is identified.</p> 	<p>Added SubAdministrativeArea and AdministrativeArea. Postal code is verified.</p> 

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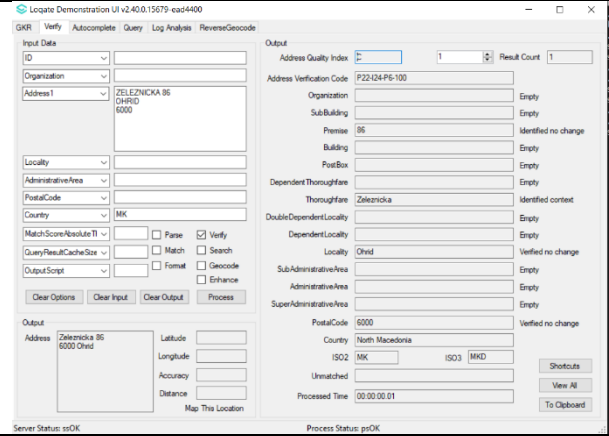
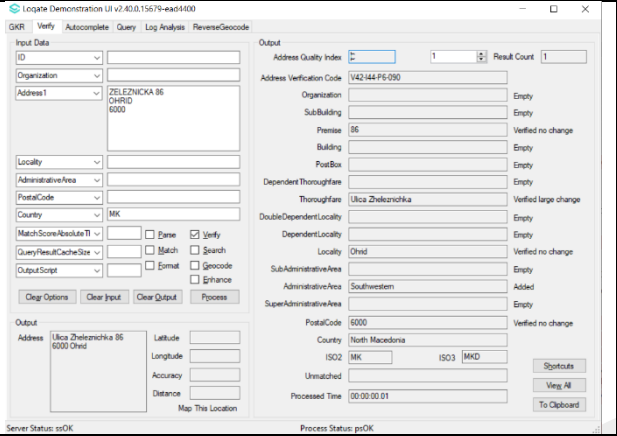
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Macedonia, The Former Yugoslav Republic of (L4)

Country Information	Description
ISO2	MK
ISO3	MKD
Address Format	Organization PostBox Building SubBuilding Thoroughfare Premise DependentThoroughfare DoubleDependentLocality DependentLocality PostalCode Locality
PDH	Yes
PDH Completed Date	2021Q4.0
New Source	NO
Reference Data Pre-PDH	rd_MK.lfs rd_MK_rg.lfs rd_MK_ai.lfs rd_MK_geop.lfs rd_MK_geop_rg.lfs
Reference Data Post-PDH	rd_MK_ggg.lfs rd_MK_ggg_rg.lfs rd_MK_vfy_ai.lfs rd_MK_vfy.lfs

This release makes improvements to the verification results within the premise and thoroughfare fields.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
Premise and thoroughfare not able to be verified	Premise and thoroughfare can now be verified
	

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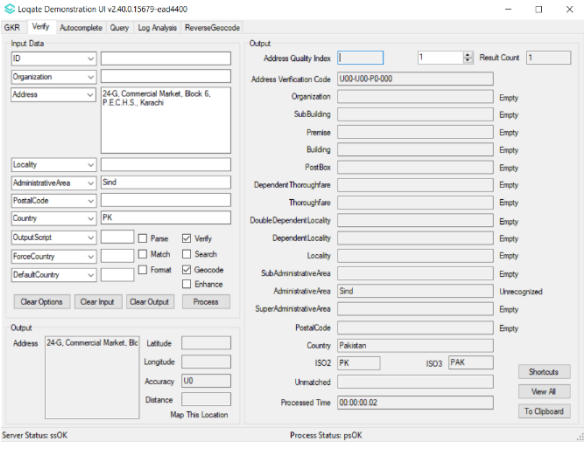
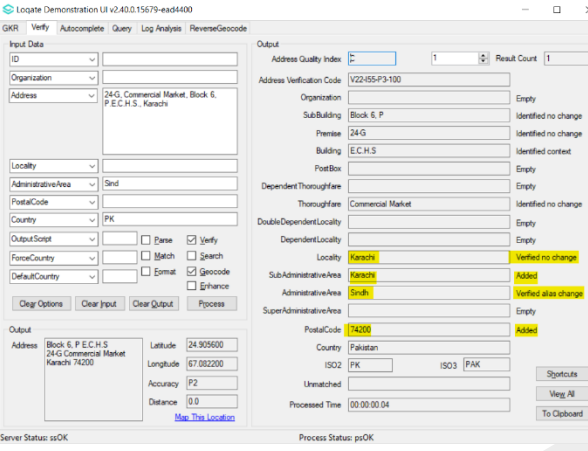
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Pakistan (L2)

Country Information	Description
ISO2	PK
ISO3	PAK
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality, PostalCode
PDH	YES
PDH completed date	2021Q4.0
New Source	NO
Reference Data Pre-PDH	rd_PK_ai.lfs rd_PK.lfs rd_PK_rg.lfs
Reference Data Post-PDH	rd_PK_ggg.lfs rd_PK_ggg_rg.lfs rd_PK_vfy_ai.lfs rd_PK_vfy.lfs

Previously addresses may have been unverifiable. This release makes improvements to the overall verification and addresses can be verifiable up to the Locality level.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
Address cannot be verified	AdministrativeArea and Locality are verified. Postal code and SubAdministrativeArea are added.
	

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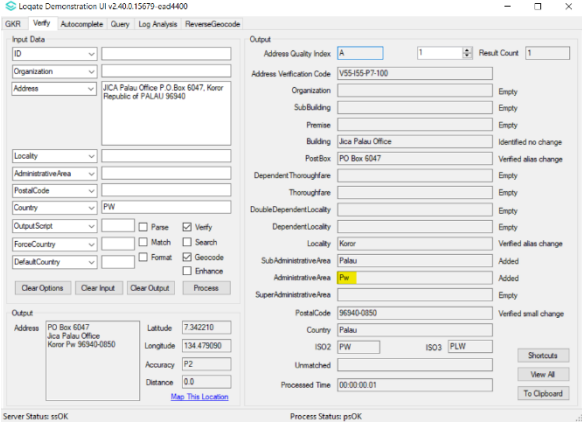
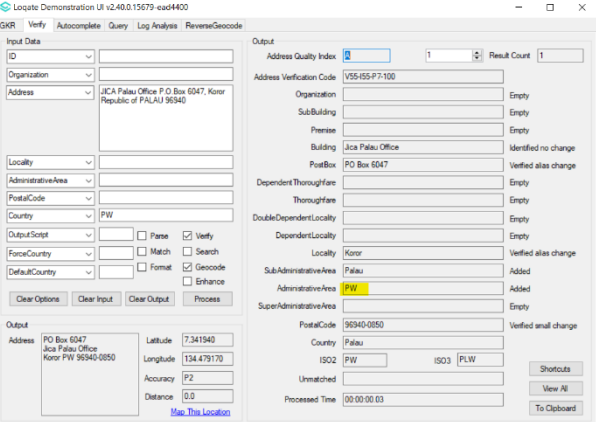
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Palau (L2)

Country Information	Description
ISO2	PW
ISO3	PLW
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality AdministrativeArea PostalCode
PDH	YES
PDH completed date	2021Q4.0
New Source	NO
Reference Data Pre-PDH	rd_PW_vfy.lfs rd_PW_vfy_ai.lfs rd_PW_geo.lfs rd_PW_geo_rg.lfs
Reference Data Post-PDH	rd_PW_ggg.lfs rd_PW_ggg_rg.lfs rd_PW_vfy_ai.lfs rd_PW_vfy.lfs

In this release, improvements including address format and verification results can be seen within the AdministrativeArea.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
AdministrativeArea is added but not in the correct format.	AdministrativeArea is added and capitalised following the correct format.
	

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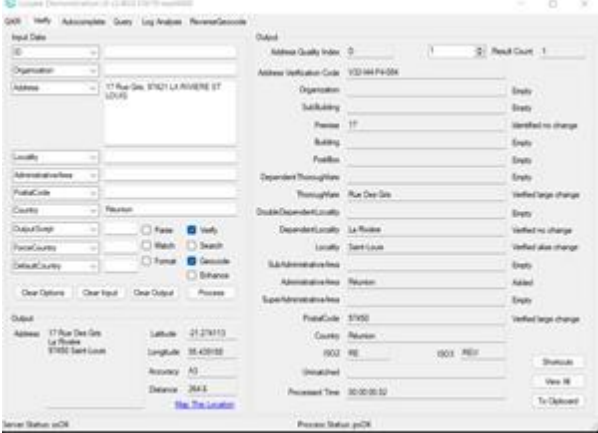
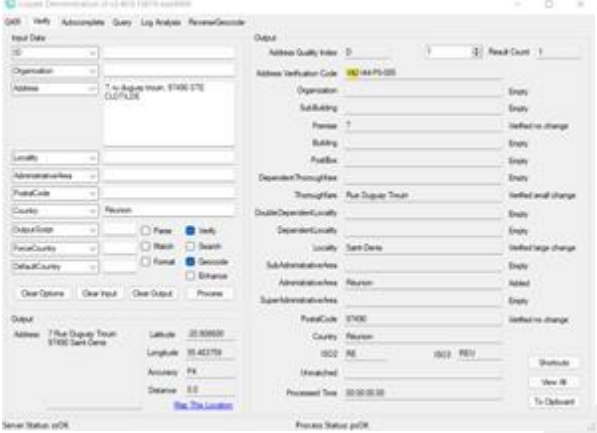
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Réunion (L4)

Country Information	Description
ISO2	RE
ISO3	REU
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality PostalCode Locality
PDH	YES
PDH completed date	2021Q4.0
New Source	NO
Reference Data Pre-PDH	rd_RE.lfs rd_RE_ai.lfs rd_RE_rg.lfs
Reference Data Post-PDH	rd_RE_vfy.lfs rd_RE_vfy_ai.lfs rd_RE_ggg.lfs rd_RE_ggg_rg.lfs

This release makes improvements to the overall verification results and addresses can be verified up to the premise level.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
Addresses are identified up to level 3 (Thoroughfare).	Able to verify more addresses up to level 4 (premise).
	

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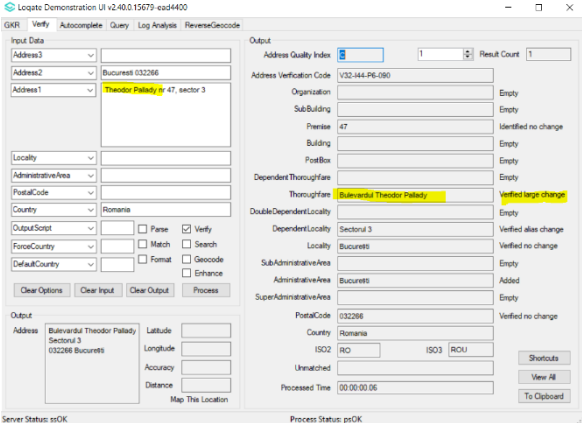
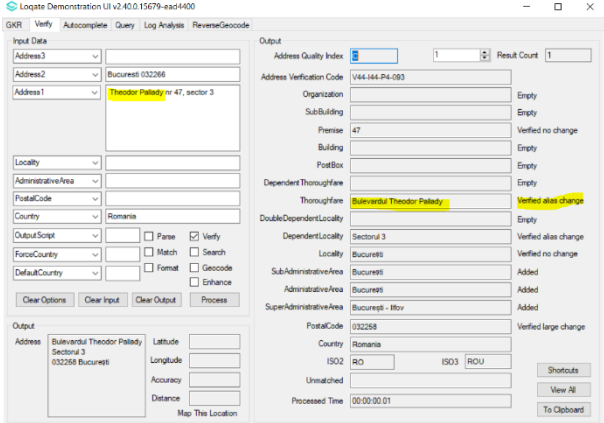
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Romania (L4)

Country Information	Description
ISO2	RO
ISO3	ROU
Address Format	Organization PostBox Thoroughfare Premise Building SubBuilding DependentThoroughfare DoubleDependentLocality DependentLocality PostalCode Locality
PDH	YES
PDH completed date	2021Q4.0
New Source	NO
Reference Data Pre-PDH	rd_RO_ai.lfs rd_RO_geop.lfs rd_RO_geop_rg.lfs rd_RO.lfs rd_RO_rg.lfs
Reference Data Post-PDH	rd_RO_ggg.lfs rd_RO_ggg_rg.lfs rd_RO_vfy_ai.lfs rd_RO_vfy.lfs

This release makes improvements to the verification results within the thoroughfare field.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
Thoroughfare without type verified large change.	Thoroughfare without type able to be verified alias change.
	

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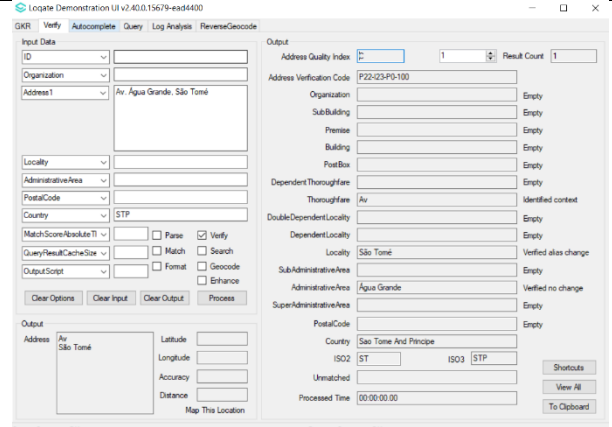
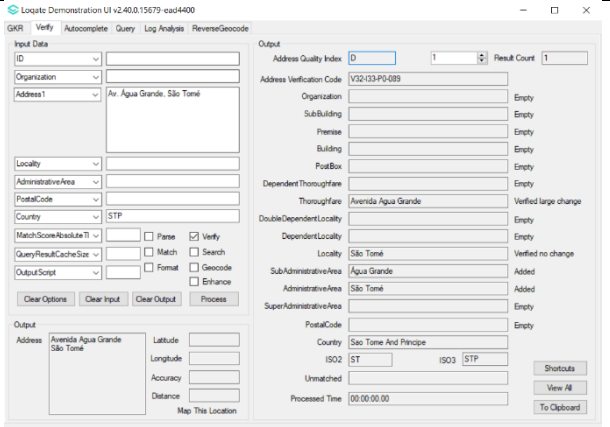
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Sao Tome and Principe (L3)

Country Information	Description
ISO2	ST
ISO3	STP
Address Format	Organization PostBox Building SubBuilding Thoroughfare Premise DependentThoroughfare DoubleDependentLocality DependentLocality Locality
PDH	Yes
PDH Completed Date	2021Q4.0
New Source	NO
Reference Data Pre-PDH	rd_ST.lfs rd_ST_rg.lfs rd_ST_ai.lfs
Reference Data Post-PDH	rd_ST_ggg.lfs rd_ST_ggg_rg.lfs rd_ST_vfy_ai.lfs rd_ST_vfy.lfs

The 2021Q4.0 major release makes improvements to the verification results within the thoroughfare field.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
Thoroughfare not able to be verified	Thoroughfare able to be verified
	

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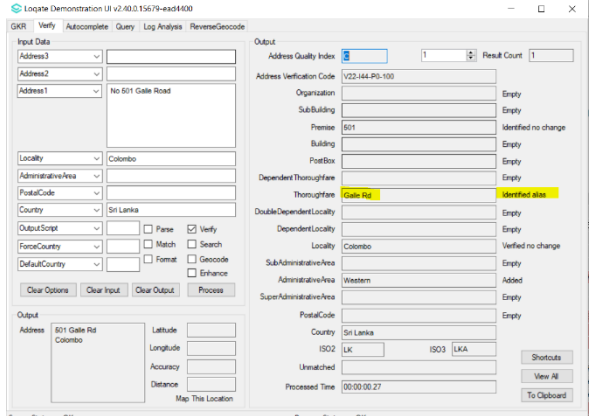
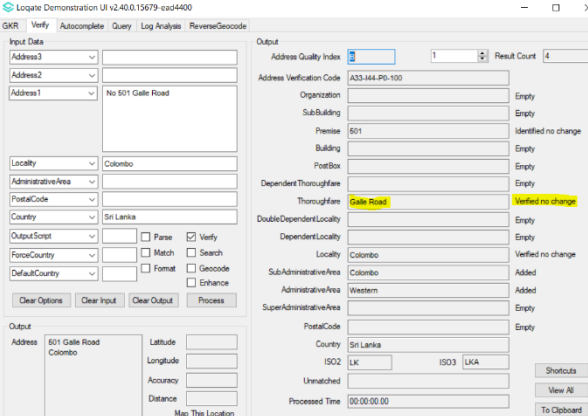
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Country Information	Description
ISO2	LK
ISO3	LKA
Address Format	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality PostalCode
PDH	YES
PDH completed date	2021Q4.0
New Source	NO
Reference Data Pre-PDH	rd_LK_ai.lfs rd_LK.lfs rd_LK_rg.lfs
Reference Data Post-PDH	rd_LK_ggg.lfs rd_LK_ggg_rg.lfs rd_LK_vfy_ai.lfs rd_LK_vfy.lfs

The 2021Q4.0 major release makes improvements to the verification results within the thoroughfare field.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
Thoroughfare not verified. 	Thoroughfare verified. 

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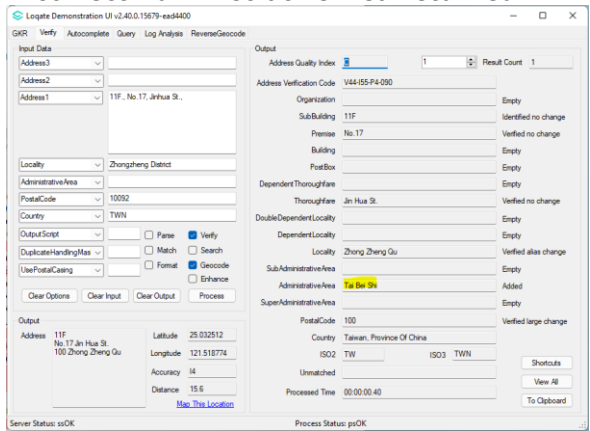
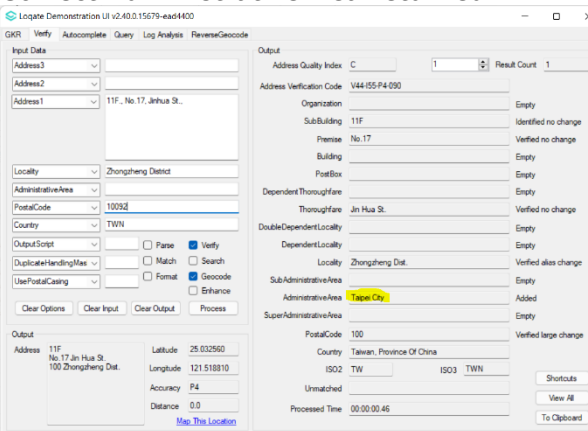
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Taiwan (L4)

Country Information	Description
ISO2	TW
ISO3	TWN
Address Format	Organization PostBox SubBuilding Building Premise DependentThoroughfare Thoroughfare DoubleDependentLocality DependentLocality PostalCode Locality
PDH	YES
PDH completed date	2021Q4.0
New Source	NO
Reference Data Pre-PDH	rd_TW_ai.lfs rd_TW.lfs rd_TW_rg.lfs rd_TW_geop_rg.lfs rd_TW_geop.lfs
Reference Data Post-PDH	rd_TW_ggg.lfs rd_TW_ggg_rg.lfs rd_TW_vfy_ai.lfs rd_TW_vfy.lfs

This release makes improvements to the verification results within the AdministrativeArea, including general field name standardization.

2021Q3.1 (Before Change)	2021Q4.0 (After Change)
Incorrect AdministrativeArea returned 	Correct AdministrativeArea returned 

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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:** 29 countries
- **Lexicon:** 4 countries
- **Context Rules:** 25 countries

COUNTRY NAME	ISO CODE	CONTEXT RULES	LEXICONS	REFERENCE DATA
AFGHANISTAN	AF			
ÅLAND ISLANDS	AX			
ALBANIA	AL			
ALGERIA	DZ			
AMERICAN SAMOA	AS			
ANDORRA	AD			
ANGOLA	AO			
ANGUILLA	AI			
ANTARCTICA	AQ			
ANTIGUA AND BARBUDA	AG		X	X
ARGENTINA	AR		X	
ARMENIA	AM			
ARUBA	AW			
AUSTRALIA	AU		X	X
AUSTRIA	AT			
AZERBAIJAN	AZ			
BAHAMAS	BS			
BAHRAIN	BH			
BANGLADESH	BD			
BARBADOS	BB			
BELARUS	BY			
BELGIUM	BE			
BELIZE	BZ			
BENIN	BJ			
BERMUDA	BM			
BHUTAN	BT			
BOLIVIA (PLURINATIONAL STATE OF)	BO			
BONAIRE, SINT EUSTATIUS AND SABA	BQ			
BOSNIA AND HERZEGOVINA	BA			
BOTSWANA	BW			
BOUVET ISLAND	BV			
BRAZIL	BR			
BRITISH INDIAN OCEAN TERRITORY	IO			
BRUNEI DARUSSALAM	BN			
BULGARIA	BG			

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BURUNDI	BI			
CABO VERDE	CV			
CAMBODIA	KH			
CAMEROON	CM			
CANADA	CA		X	X
CAYMAN ISLANDS	KY			
CENTRAL AFRICAN REPUBLIC	CF			
CHAD	TD			
CHILE	CL			
CHINA	CN			
CHRISTMAS ISLAND	CX			
COCOS (KEELING) ISLANDS	CC			
COLOMBIA	CO			
COMOROS	KM			
CONGO	CG			
CONGO, DEMOCRATIC REPUBLIC OF THE	CD			
COOK ISLANDS	CK			
COSTA RICA	CR		X	X
CÔTE D'IVOIRE	CI			
CROATIA	HR			
CUBA	CU			
CURAÇAO	CW			
CYPRUS	CY			
CZECHIA	CZ			
DENMARK	DK			
DJIBOUTI	DJ			
DOMINICA	DM			
DOMINICAN REPUBLIC	DO			
ECUADOR	EC			
EGYPT	EG			
EL SALVADOR	SV		X	X
EQUATORIAL GUINEA	GQ			
ERITREA	ER			
ESTONIA	EE			
ETHIOPIA	ET			
FALKLAND ISLANDS (MALVINAS)	FK			
FAROE ISLANDS	FO			
FIJI	FJ			
FINLAND	FI			
FRANCE	FR		X	
FRENCH GUIANA	GF			
FRENCH POLYNESIA	PF			
FRENCH SOUTHERN TERRITORIES	TF			
GABON	GA			

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GAMBIA	GM			
GEORGIA	GE			
GERMANY	DE		X	
GHANA	GH			
GIBRALTAR	GI			
GREECE	GR			
GREENLAND	GL			
GRENADA	GD			
GUADELOUPE	GP			
GUAM	GU			
GUATEMALA	GT			
GUERNSEY	GG			X
GUINEA	GN			
GUINEA-BISSAU	GW			
GUYANA	GY			
HAITI	HT			
HEARD ISLAND AND MCDONALD ISLANDS	HM			
HONDURAS	HN			
HONG KONG	HK	X	X	
HUNGARY	HU			
ICELAND	IS		X	X
INDIA	IN			
INDONESIA	ID			
IRAN	IR		X	
IRAQ	IQ			
IRELAND	IE			X
ISLE OF MAN	IM			X
ISRAEL	IL			X
ITALY	IT			
JAMAICA	JM		X	X
JAPAN	JP			
JERSEY	JE			X
JORDAN	JO		X	X
KAZAKHSTAN	KZ			
KENYA	KE		X	X
KIRIBATI	KI			
KOREA (DEMOCRATIC PEOPLE'S REPUBLIC OF)	KP			
KOREA, REPUBLIC OF	KR			
KUWAIT	KW			
KYRGYZSTAN	KG			
LAO PEOPLE'S DEMOCRATIC REPUBLIC	LA	X	X	X
LATVIA	LV			
LEBANON	LB			
LESOTHO	LS			
LIBERIA	LR			

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LIBYA	LY			
LIECHTENSTEIN	LI			
LITHUANIA	LT			
LUXEMBOURG	LU			
MACAO	MO			
MADAGASCAR	MG			
MALAWI	MW			
MALAYSIA	MY			
MALDIVES	MV			
MALI	ML			
MALTA	MT		X	X
MARSHALL ISLANDS	MH			X
MARTINIQUE	MQ			
MAURITANIA	MR			
MAURITIUS	MU			
MAYOTTE	YT			
MEXICO	MX			
MICRONESIA (FEDERATED STATES OF)	FM			X
MOLDOVA, REPUBLIC OF	MD			
MONACO	MC			
MONGOLIA	MN			
MONTENEGRO	ME			
MONTSERRAT	MS			
MOROCCO	MA			
MOZAMBIQUE	MZ			
MYANMAR	MM			
NAMIBIA	NA			
NAURU	NR			
NEPAL	NP			
NETHERLANDS	NL		X	
NEW CALEDONIA	NC		X	X
NEW ZEALAND	NZ			
NICARAGUA	NI			
NIGER	NE			
NIGERIA	NG			
NIUE	NU			
NORFOLK ISLAND	NF			
NORTH MACEDONIA	MK		X	X
NORTHERN MARIANA ISLANDS	MP			
NORWAY	NO			
OMAN	OM			
PAKISTAN	PK	X	X	X
PALAU	PW			X
PALESTINE, STATE OF	PS			
PANAMA	PA			

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PARAGUAY	PY			
PERU	PE			
PHILIPPINES	PH			
PITCAIRN	PN			
POLAND	PL			
PORTUGAL	PT			
PUERTO RICO	PR			
QATAR	QA			
RÉUNION	RE		X	X
ROMANIA	RO	X	X	X
RUSSIAN FEDERATION	RU			
RWANDA	RW			
SAINT BARTHÉLEMY	BL			
SAINT HELENA, ASCENSION AND TRISTAN DA CUNHA	SH			
SAINT KITTS AND NEVIS	KN			
SAINT LUCIA	LC			
SAINT MARTIN (FRENCH PART)	MF			
SAINT PIERRE AND MIQUELON	PM			
SAINT VINCENT AND THE GRENADINES	VC			
SAMOA	WS			
SAN MARINO	SM			
SAO TOME AND PRINCIPE	ST		X	X
SAUDI ARABIA	SA			
SENEGAL	SN			
SERBIA	RS			
SEYCHELLES	SC			
SIERRA LEONE	SL			
SINGAPORE	SG			
SINT MAARTEN (DUTCH PART)	SX			
SLOVAKIA	SK			
SLOVENIA	SI			
SOLOMON ISLANDS	SB			
SOMALIA	SO			
SOUTH AFRICA	ZA			
SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS	GS			
SOUTH SUDAN	SS			
SPAIN	ES			
SRI LANKA	LK		X	X
SUDAN	SD			
SURINAME	SR			
SVALBARD AND JAN MAYEN	SJ			
SWAZILAND	SZ			
SWEDEN	SE			
SWITZERLAND	CH			

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SYRIAN ARAB REPUBLIC	SY			
TAIWAN	TW		X	X
TAJIKISTAN	TJ			
TANZANIA, UNITED REPUBLIC OF	TZ			
THAILAND	TH			
TIMOR-LESTE	TL			
TOGO	TG			
TOKELAU	TK			
TONGA	TO			
TRINIDAD AND TOBAGO	TT			
TUNISIA	TN			
TURKEY	TR			
TURKMENISTAN	TM			
TURKS AND CAICOS ISLANDS	TC			
TUVALU	TV			
UGANDA	UG			
UKRAINE	UA			
UNITED ARAB EMIRATES	AE			
UNITED KINGDOM	GB			X
UNITED STATES MINOR OUTLYING ISLANDS	UM			
UNITED STATES OF AMERICA	US			X
URUGUAY	UY			
UZBEKISTAN	UZ			
VANUATU	VU			
VATICAN CITY	VA			
VENEZUELA (BOLIVARIAN REPUBLIC OF)	VE			
VIET NAM	VN			
VIRGIN ISLANDS (BRITISH)	VG			
VIRGIN ISLANDS (U.S.)	VI			
WALLIS AND FUTUNA	WF			
WESTERN SAHARA	EH			
YEMEN	YE			
ZAMBIA	ZM			
ZIMBABWE	ZW			

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INVESTORS
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Release Notes – Geographic Hierarchy (Seed) Data

2021Q4.0 Major Release

Overview

The following document identifies all improvements and changes made to the Seed data files for the Loqate 2021Q4.0 Major Release.

Case Resolutions

The below section includes a summary of resolved cases in this release.

External issue ID	Country	Description
CAS-52104-R3M1X8	US	Improvement to verification results in the SubAdministrativeArea fields.
CAS-46551-B4P8B5	CA	Official french Administrative Area turn from invalid alias to valid; Improvement in the french aliases tagging; Data Refresh
CAS-11010-X3H1S5	IL	Data refresh, Addition of postalcode; New DependentLocality field addition
CAS-10851-Q7X2J1	JAM	Correction of AdministrativeArea name, and aliases addition
CAS-50985-Y7Z6T7	AU	Geographic structure changed to follow Australia post standard structure; All ID changed
CAS-10788-Y5R2H8	MK	Country name correction in LoqateGeoStructure_All; Data Refresh; Addition of entries, aliases

File Changes

The table below indicates the count of changed rows between the previous major and current release. There are no or nominal changes for all other country files.

Country	Count	Description
AG	5	Data refresh; Addition of aliases
AU	16232	Case resolution (CAS-50985-Y7Z6T7): Geographic structure changed to follow Australia post standard structure; All ID changed
CA	3569	Case resolution (CAS-46551-B4P8B5): Official French Administrative Area turn from invalid alias to valid; Improvement in the French aliases tagging; Data Refresh
CL	11	Aliases re-ordering
CO	2	Aliases re-ordering
CR	1031	Data refresh; New DoubleDependentLocality field addition

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FM	564	Data refresh; Geographical changed; All ID changed
FO	6	Aliases re-ordering
GB	926	Data refresh; Addition of entries, postalcode
IE	14189	Data refresh; Addition of entries, aliases, and postalcode
IL	123	Case resolution (CAS-11010-X3H1S5) ; Data refresh, Addition of postalcode; New DependentLocality field addition
IM	4	Data refresh; Addition of postalcode
IS	145	Addition of aliases, postalcode
JE	2	Data refresh; Addition of postalcode
JM	892	Case resolution (CAS-10851-Q7X2J1); Correction of AdministrativeArea name, and aliases addition
JO	402	Data refresh, Addition of aliases, postalcode; New DependentLocality field addition
KE	652	Data refresh, Addition of aliases; DependentLocality field removal
LA	1874	Data refresh; Administrative count increased from 17 to 18; Vientiane AdministrativeArea split to two- Prefecture & Province
LK	3449	Date refresh; Addition of entries, aliases
MH	39	Data refresh; Geographical changed; All ID changed
MK	226	Case resolution (CAS-10788-Y5R2H8); Country name correction in LoqateGeoStructure_All; Data Refresh; Addition of entries, aliases
MT	151	Data refresh; Addition of postalcode
NC	31	Data refresh; Addition of aliases
PK	75	Data refresh; Addition of aliases
PW	107	Data refresh; Geographical changed; All ID changed
RE	12	Data refresh; Addition of aliases, postalcode
RO	10907	Data refresh; Addition of aliases, postalcode
ST	28	Data refresh; Addition of aliases
SV	616	Data refresh; Addition of entries, aliases
TW	8279	Data Refresh; New DependentLocality field addition; Addition of entries, aliases, postalcode
US	0	Case resolution (CAS-52104-R3M1X8) Correction of missing/Incorrect county in seed enhanced result

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Geographic Structure Changes

The following table describe changes to the country structures document.

Dataset	Description												
Poland	Updated generic name:												
	<table><tr><th>Loqate Field</th><th>Previously</th><th>2021Q4.0</th></tr><tr><td>Locality</td><td>Miasta</td><td>Gminy</td></tr><tr><td>DependentLocality</td><td>Gminy</td><td>Village</td></tr><tr><td>DoubleDependentLocalit</td><td>Wioska</td><td>Smaller village</td></tr></table>	Loqate Field	Previously	2021Q4.0	Locality	Miasta	Gminy	DependentLocality	Gminy	Village	DoubleDependentLocalit	Wioska	Smaller village
	Loqate Field	Previously	2021Q4.0										
	Locality	Miasta	Gminy										
	DependentLocality	Gminy	Village										
DoubleDependentLocalit	Wioska	Smaller village											
Australia	Data Re-alignment:												
	<table><tr><th>Previously</th><th>2021Q4.0</th></tr><tr><td>Locality: City/Metropolitan are</td><td>Locality: City/Metropolitan area/Suburbs</td></tr><tr><td>DependentLocality: Suburbs</td><td>Info: Locality from "N" to "Y"</td></tr></table>	Previously	2021Q4.0	Locality: City/Metropolitan are	Locality: City/Metropolitan area/Suburbs	DependentLocality: Suburbs	Info: Locality from "N" to "Y"						
	Previously	2021Q4.0											
Locality: City/Metropolitan are	Locality: City/Metropolitan area/Suburbs												
DependentLocality: Suburbs	Info: Locality from "N" to "Y"												
Israel	Added new DependentLocality level												
Jordan	Added new DependentLocality level; Info: SubAdministrativeArea from "N" to "Y"												
Micronesia	Data re-alignment:												
	<table><tr><th>Previously</th><th>2021Q4.0</th></tr><tr><td>AdministrativeArea: State Locality: Municipality DependentLocality: Village</td><td>AdministrativeArea: Federal State SubAdministrativeArea: County Locality: State DependentLocality: Municipality</td></tr></table>	Previously	2021Q4.0	AdministrativeArea: State Locality: Municipality DependentLocality: Village	AdministrativeArea: Federal State SubAdministrativeArea: County Locality: State DependentLocality: Municipality								
	Previously	2021Q4.0											
AdministrativeArea: State Locality: Municipality DependentLocality: Village	AdministrativeArea: Federal State SubAdministrativeArea: County Locality: State DependentLocality: Municipality												
Kenya	Removal of DependentLocality field; Info: Locality from "N" to "Y"												
Marshall Islands	Data re-alignment:												
	<table><tr><th>Previously</th><th>2021Q4.0</th></tr><tr><td>AdministrativeArea: Islands Chain Locality: Municipality</td><td>AdministrativeArea: Island SubAdministrativeArea: Islands Chain Locality: Municipality</td></tr></table>	Previously	2021Q4.0	AdministrativeArea: Islands Chain Locality: Municipality	AdministrativeArea: Island SubAdministrativeArea: Islands Chain Locality: Municipality								
	Previously	2021Q4.0											
AdministrativeArea: Islands Chain Locality: Municipality	AdministrativeArea: Island SubAdministrativeArea: Islands Chain Locality: Municipality												
North Macedonia	Country Name changed:												
	<table><tr><th>Previously</th><th>2021Q4.0</th></tr><tr><td>Macedonia, The Former Yugoslav Republic of</td><td>North Macedonia</td></tr></table>	Previously	2021Q4.0	Macedonia, The Former Yugoslav Republic of	North Macedonia								
	Previously	2021Q4.0											
Macedonia, The Former Yugoslav Republic of	North Macedonia												
Palau	Data re-alignment:												
	<table><tr><th>Previously</th><th>2021Q4.0</th></tr><tr><td>AdministrativeArea: State Locality: Town/Village</td><td>AdministrativeArea: Federal State SubAdministrativeArea: County Locality: State DependentLocality: Town/Village</td></tr></table>	Previously	2021Q4.0	AdministrativeArea: State Locality: Town/Village	AdministrativeArea: Federal State SubAdministrativeArea: County Locality: State DependentLocality: Town/Village								
	Previously	2021Q4.0											
AdministrativeArea: State Locality: Town/Village	AdministrativeArea: Federal State SubAdministrativeArea: County Locality: State DependentLocality: Town/Village												
Taiwan	Added new DependentLocality level												

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