Loqate, A GBG Solution Release Notes – Verify API 2021Q4.0_Major Release

Case Resolutions

Please visit <u>https://support.loqate.com/release-information/2021q4-0-resolved-cases/</u> for a list of cases resolved in this release. If you would like more details on any of the solved cases listed, please contact <u>LoqateSupport@gbgplc.com</u> for further information.

Local API Notices

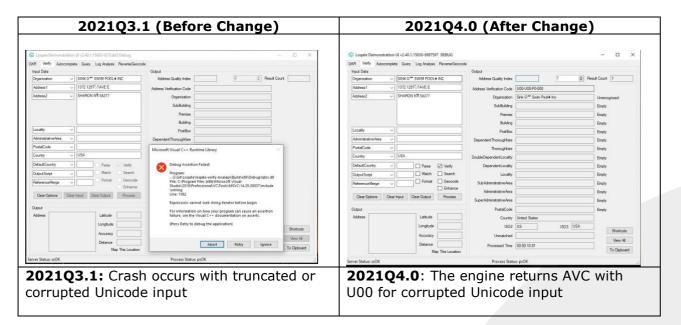
Advance notice on release 2021Q4.1 due to release on 1st December 2021

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.







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.

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put Data		Output			Input Data			Output		
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Organization ·	v	Address Verification Code	V43-I55-P6-092		Address ~	PEARCE MOTORS		Address Verification Code	V54-I55-P6-100	
Address2	36 44 WEST ROAD	Organization	Pearce Motors	Identified context	Address1 ~	36 44 WEST ROAD		Organization	Pearce Motors	Identified no change
		SubBuilding	36	Identified no change				SubBuilding	Flat	Added
		Premise	36-44	Verified large change				Premise		Verified no change
		Building		Empty				Building		Empty
ocality	V NEWCASTLE UPON TYNE	PostBox		Empty	Address2 ~			PostBox		Empty
dministrative Area	TYNE AND WEAR	Dependent Thoroughfare		Empty	Administrative Area ~	TYNE AND WEAR		Dependent Thoroughfare		Empty
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er Status: ssOK		Process Statu	s: nsOK		Server Status: ssOK			Saved Process Statu	is: psOK	
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The Pipe character is removed from the DeliveryAddress field in the 2021Q4.0 major release.

2021Q3	. 1 (B	efore	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)
Copy Demonstration U.M.2.42.11582-827-045 Debug - DRI Very Accomplete Dany Lap Analyse Person/Gencode Note Note Note Note Note Note Note Address Very Bit Note Note Note Note Note Note Very Bit Note	Corport Demonstration UI -24.01.15790-45bbbc DEBUD - CDR Very Attocomplete Oxery Log Analyse ReversalSoconde Very Attocomplete Oxery Log Analyse ReversalSoconde 1 Address 1 0 Very Attocomplete Oxery Log Analyse ReversalSoconde 0 Address 1 0 Very Attocomplete Oxery Log Analyse ReversalSoconde 0 Address 1 0 Material Very ReversalSoconde 0 Address 1 0 Material Very ReversalSoconde 0 Very ReversalSoconde 0 Very ReversalSoconde 0 Material Very ReversalSoconde 0 Very ReversalSoconde 0 Very ReversalSoconde 0 Material Very ReversalSoconde 0
2021Q3.1: Output - Building contains native Korean characters (Hang) that is not transliterated to Latin characters (Latn) when OutputScript=Latn 2021Q3.1 (Before Change)	2021Q4.1: All output especially Building is transliterated to Latin characters (Latn) when OutputScript=Latn 2021Q4.0 (After Change)
Image: control of the state of the stat	Image: control of the state of the stat





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 <u>GBG Loqate Support</u>.

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 LocateSupport@gbgplc.com.

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

 T (800) 313-3910
 E support@loqate.com

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Loqate, A GBG Solution Release Notes – Reference Data & Knowledge Base 2021Q4.0 Major Release

Case Resolutions

Please visit <u>https://support.loqate.com/release-information/2021q4-0-resolved-cases/</u> for a list of cases resolved in this release. If you would like more details on any of the solved cases listed, please contact <u>LoqateSupport@gbgplc.com</u> 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.*

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

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

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 (Bef	ore Chan	g)	2	021Q4.0 (/	After Cha	nge)
laymarket verifie	d as De	pendentL		Haymarket ve		cality	
Logate Demonstration UI v2.40.0.15679-ead4400			- 🗆 X	Logate Demonstration UI v2.40.0.15679-ead440			- 🗆 ×
(R Verfy Autocomplete Query Log Analysis ReverseGeocod hout Data				GKR Verfy Autocomplete Query Log Analysis			
Address3	Output Address Quality Index	A 1	Result Count 1	Input Data	Output Address Quality Index	0 1	Result Count 1
Address2				Address2			• 1000 0000 1
Address1 V L1477 Pit St	Address Verification Code Organization	830-130-F6-100		Address1	Address Verification Code		
HAYMARKET NSW 2000	Organization		Empty	HAYMARKET NSW 200			Empty
			Empty		SubBuilding		Empty
	Premise	4//	Verfied no change		Premise		Verified no change
Locality	Building		Empty	(Level)	Building		Empty
Administrative Area	PostBox		Empty	Localty ~	PostBox		Empty
Administrative Area v	Dependent Thoroughfare		Empty	Administrative Area V	Dependent Thoroughfare		Empty
	Thoroughfare	ME SI	Verified no change	PostalCode ~	Thoroughfare	Pitt St	Verified no change
	Double Dependent Locality		Empty	Country ~ AUS	Double Dependent Locality		Empty
OutputScript V Parse Verify	DependentLocality		Verfied no change		Verify Dependent Locality		Empty
DuplcateHandlingMas Match Search Format Geocode	Locality	SYDNEY	Added			HAYMARKET	Verified no change
UsePostalCasing Geocode Enhance	SubAdministrativeArea		Empty	UsePostalCasing V Format	Enhance		Empty
Clear Options Clear Input Clear Output Process	AdministrativeArea	NSW	Verfied no change	Clear Options Clear Input Clear Output	Administrative Area	NSW	Verified no change
	SuperAdministrativeArea		Empty	Construction of the constr	SuperAdministrative Area		Empty
Dutput	PostalCode		Verified no change	Output	PostalCode	2000	Verified no change
Address L 1 477 Ptt St Latitude -33.880550 HAYMARKET NSW 2000	Country			Address L 1 477 Ptt St Latitude HAYMARKET NSW 2000	-33.880550 Country	Australia	
Longtude 151.206390	1502	AU ISO3 AU	Shortcuts	Longitude	151.206390 1902	AU ISO3 AU	Shortcuta
Acouracy P4	Unmatched		View All	Accuracy	P4 Unmatched		
Distance 0.0	Processed Time	00:00:01.07		Distance	0.0 Processed Time	00:00:01.26	View All
Map This Location			To Clipboard	14-	This Location		To Clipboard

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.

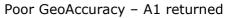
2021Q3.1 (Before Change)	2021Q4.0 (After Change)		
List of files: rd_CA_ggg_lfs rd_CA_ggg_r1.lfs rd_CA_ggg_r2.lfs rd_CA_ggg_rg_lfs rd_CA_ggg_r.lfs	List of files: rd_CA_ggg.lfs rd_CA_ggg_rg.lfs		

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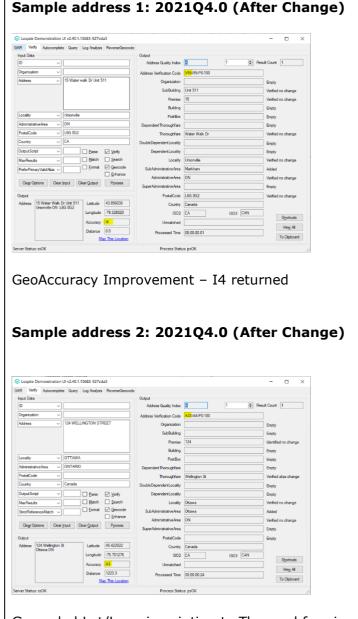
hang	-						
Logate Demonstratio							- 🗆 ×
R Verfy Autocomp	ete Query	Log Analysis	ReverseGeocode	e Output			
nput Data	1			Address Quality Index		1 0 Ber	ult Count 1
Organization				Address Verification Code	V55-155-P6-100		1
Address	15 Water w	alk Dr Unit 5	11	Organization	100		Emoty
	-			SubBuilding	Upt 511		Verfied no change
				Premise	15		Verfied no change
				Building	15		Empty
Locality	Unionville			PostBox	[Empty
AdministrativeArea	ON			Dependent Thoroughfare			Empty
PostalCode			Thoroughfare	Water Walk Dr		Verfied no change	
Country	CA			DoubleDependentLocality	[Empty
OutputScript		Parse	Verty	DependentLocality			Empty
MaxResults		Match	Search	Localty	Unionville		Verfied no change
PreferPrimaryValidAlias		Eomat	Geocode	SubAdministrativeArea	Markham		Added
			Enhance	AdministrativeArea	ON		Verfied no change
Clear Options Cle	ar Input Ce	er Qutput	Process	SuperAdministrativeArea			Empty
Dutput				PostalCode	183.052		Verified no change
Address 15 Water Wal		Latitude	43.760456	Country	Canada]
Unionville ON	L6G 0G2	Longitude	-79.153438	1502	CA	ISO3 CAN	
		Accuracy	A1	Unmatched			Shortcuts
		Distance	678884.3	Processed Time	00:00:01.47		Vie <u>w</u> All
			ap This Location	r/ocessed time	000001/47		To Clipboard



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

KR Ver		e Query	Log Analysis	ReverseGeocode				
Input Data	a				Output			
ID	~				Address Quality Index	1	÷ Res	ult Count 1
Organizat	tion ~				Address Verification Code	A33-I44-P0-100		
Address V 124 WELLINGTON STREET		Organization			Empty			
					SubBuilding			Empty
					Premise	124		Identified no change
					Building			Empty
Locality	~	OTTAW	A		PostBox			Empty
Administra	ativeArea 🗸 🗸	ONTAR	0		Dependent Thoroughfare			Empty
PostalCo	de v				Thoroughfare	Wellington St		Verified alias change
Country	~	Canada			DoubleDependentLocality			Empty
OutputSo	oript v		Parse	Verty	DependentLocality			Empty
MaxResu	its ~		Match	Search	Locality	Ottawa		Verified no change
StrictRefe	erenceMatch ~		Eomat	Geocode	Sub-Administrative-Area	Ottawa		Added
				Enhance	AdministrativeArea	ON		Verified no change
Clear	Options Clear	Input	Clear Output	Process	SuperAdministrativeArea			Empty
Output					PostalCode	[Empty
Address	124 Wellington S	2	Latitude	43.914810	Country	Canada		
	Ottawa ON		Longtude	-78.690260	ISO2	CA	ISO3 CAN	
			Accuracy	14	Unmatched			Shortcuts
				223.9		00:00:02.72		Vie <u>w</u> All
				p This Location	ridcessed time	00.00.06.76		To Clipboard
ver Statu	us: ssOK				Process Statu	is: psOK		

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



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



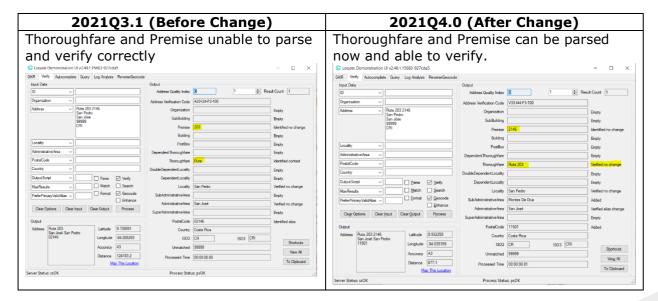


Data Improvements

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.



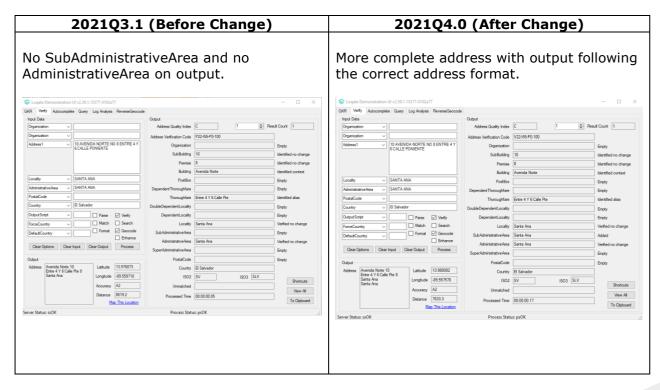




El Salvador (L3)

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.







Iceland (L4)

Description
IS
ISL
Organization Postbox Thoroughfare Premise Building SubBuilding
DependentThoroughfare
DoubleDependentLocality
DependentLocality
PostalCode Locality
Yes
2021Q4.0
NO
rd_IS.lfs rd_IS_rg.lfs
rd_IS_ai.lfs
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	0 (After Change)
Thoroughfare and Pl Courte Demonstration Viz 40.015675-east4400 GR WM Assomptie Dary Log Analysis Reversifiescon Post Data	- CApyr Address Qualty Index C 1 C Result Count 3	Thoroughfare and Pr Costo Demostration UI v2 00.15579-485400 Rev Verfy Atacompile Ovey Log Analysis ReverseGeocod Food Date	- D X
Organization V Address1 V 12 Gummantbraut Dalwk	Address Verification Code #22/44/PD 100 Organization Empty Subbliding Empty Pensive 12 Identified no change Identified no change	Organization Address 1 I 2 Gunnambreut Dalvik	Address Verification Code Verification Organization Empty Subbulking Empty Premine 12 Verified no change
Locality Administrative-Rees V PostaCode Country	Bulling Entry Prests Entry Dependent Thomogeties Entry Thomogeties Entry Double/Dependent Thomogeties Entry	Locality Administrative-New PostalCode Country	Bulking Ennyly Predict Ennyly Dependent Thomagifiam Ennyly Thomagifiam Ennyly Outdeforgendmet.com/pp Ennyly
MatchSore/Redute Ti Pane Verfy QueryResutCacheSter Match Search OutputSopt Femat Geocode QueryCostons Centriput Centrologue QueryCotons Outriput Pences	Dependent Locality Entry Entry User Advances of the Second	MatchScore/Rendute11 Parse Verfy QueryResuBCacheSter INdich Sauch OutordScopt Frame Gecode DearOptors GearOptors Proces	Dependent Locally Dah's Depuis Control of the Control of Control
Output Address [Sumentions 12] Latitude Longitude Accuracy Datance Mag The Loostion	PostalCole Empty County Fealand 1502 IS Unstated Status Processed Time 000 000 Decrease Time To Opboaset	Odext Address Cumaniforut 12 Lattude Langitude Address Address Cumaniforut Address Add	PostalCode E23 Added County Lealend Stotal Stotal 1502 IS ISO3 Stotal Stotal UnsatidHed 0000000 Ven Al Yee Al To Opboard

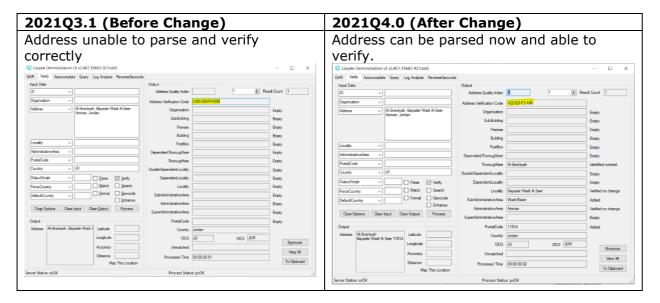




Jordan (L4)

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.







Kenya (L3)

Country Information	Description
	KE
ISO2	
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 (Befor	e Change)		2021Q4.0 (After	Change)
Only able to verify AdministrativeArea	•		Able to parse to co improve the verific	cation levels
S Logate Demonstration Ul v2.37.1.15117-e576261 GKR Verlfy Autocomplete Query Log Analysis ReverseGeocode		- 🗆 ×	S Logate Demonstration UI v2.37.1.15117-e576261 GKR Venty Autocomplete Query Log Analysis ReverseGeocode	×
Input Data	Output		Input Data	Output
	Address Quality Index E 1 💠 Resu	it Count 1		Address Quality Index B 1 D Result Count 1
Organization ~	Address Verification Code P11-I55-P2-100		Organization V	Address Verification Code V33-155-P2-100
Address Vanguard House, 7th Roor Chiromo Lane, Westlands 27346	Organization	Empty	Address Vanguard House, 7th Floor Chiromo	Organization Empty
Lane, Westantia 27,540	SubBuilding R 7	Identified alias	Lane, Westlands 27346	SubBuilding FI 7 Identified alias
	Premise	Empty		Premise
	Building Vanguard House	Identified no change		Building Vanguard House Identified no change
Locality v Narobi	PostBox	Empty	Localty ~ Nairobi	PostBox Empty
Administrative Area v	DependentThoroughfare	Empty	Administrative Area v	Dependent Thoroughfare Empty
PostalCode v	Thoroughfare Chiromo Ln	Identified alias	PostalCode ~	Thoroughfare Chiromo Ln Verfied alias change
Country V Kenya	DoubleDependentLocality	Empty	Country V Kenya	DoubleDependentLocality Empty
OutputScript Verfy	DependentLocality	Empty	OutputScript V Parse V Verfy	DependentLocality Westlands Identified no change
ForceCountry	Locality Westlands	Identified no change	ForceCountry V Match Search	Locality Nairobi Verfied no change
DefaultCountry V DefaultCountry V DefaultCountry V	SubAdministrativeArea	Empty	DefaultCountry V Eormat Geocode	Sub Administrative Area Empty
Clear Options Clear Input Clear Output Process	Administrative Area Nairobi	Verified no change	Clear Options Clear Input Clear Output Process	AdministrativeArea Nairobi Added
	SuperAdministrativeArea	Empty	Clear Options Clear Pipux Clear Output Pipocess	SuperAdministrativeArea Empty
Output Address Vanguard House FI 7 Latitude	PostalCode 27346	Identified no change	Output	PostalCode 27346 Identified no change
Chromo Ln Westlands Longitude	ISO2 KE ISO3 KEN		Address Vanguard House Fl 7 Latitude Chiromo Ln	Country Kenya
27346 Narobi Accuracy		Shortcuts	Westlands Longitude	ISO2 KE ISO3 KEN Shortcuta
Distance	Unmatched	Vie <u>w</u> All	27346 Accuracy Accuracy	Unmatched View All
Map This Location	Processed Time 00:00:00.02	To Clipboard	Distance	Processed Time 00:00:00 01 To Clipboard
Server Status: ssOK	Process Status: psOK		Map This Location	10 Cipoaro
			Server Status ssOK	Proces Status pIDK





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.Ifs
	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 (Befo	re Change)	2021Q4.0 (After	Change)
Address cannot be	e verified.		IministrativeArea can be
Logisto Demonstration UI v240.01.5579-asd4400 Set Vetry Autocomplete Guery Log Analyse RevendGeocode Therd Data Dogratation V Adverse V HMI Standard Charthology Dat Logathy V Logathy Logathy V Logathy V Logathy V Logathy V Logathy V Logathy V Logathy Logathy V Logathy	Output Address Vertication Code U00905/P010 Organization	Verified and Admin Consection Ut 20015079-ad4400 Consection Ut 200	Advess Verification Code V22/22/P0059 Empty Phoness Code Code Code Code Code Code Code Code
AdventurbueNes V Preductor Preductor V Convery V Lare Convery V Canon PrevoCarring V PrevoCarrin	Departent Transoftee Entry Transoftee Entry Transoftee Entry Departent Coatty Entry Departent Coatty Entry Sob-Mernatanto-Pres Sob-Mernatanto-Pres Sob-Mernatanto-Pres Sob-Mernatanto-Pres Soper-Mern	AddrestrativeAea	Fordios Emply Dependent ToxougHate Emply Double/Dependent.coalty Emply Dable/Dependent.coalty Emply Dependent.coalty Emply Sub-Attinepredent.coalty Emply Sub-Attinepredent.coalty Emply Sub-Attinepredent.coalty Emply Sub-Attinepredent.coalty Sub-Attinepredent.coalty Sub-Attinepredent.coalty Sub-Attinepredent.coalty Sub-Attinepredent.coalty Sub-Attinepredent.coalty Sub-Attinepredent.coalty Sub-Attinepredent.coalty Sub-Attinepredent.coalty Sub-Attinepredent.coalty Sub-Attinepredent.coalty Emply Coalty Los Pregists Democratic Republic Dial Sub-Attinepredent.coalty Umadued Dim Processed Time 90:00:00:2
Server Status: ssOK	Process Status: psOK	Server Status: ssOK	Process Status: psOK:





Malta (L3)

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 (Befo	ore Change)	2021Q4.0 (After	Change)
Thoroughfare not	verified.	Thoroughfare verif	ied alias change.
Scotte Demonstration UI v2.40.0.15679-ead4400	- 🗆 X	S Logate Demonstration UI v2.40.0.15679-ead4400	– 🗆 🗙
GKR Verfy Autocomplete Query Log Analysis ReverseGeoc	ode	GKR Verify Autocomplete Query Log Analysis ReverseGeocodi	
Input Data	Output	Input Data	Output
Address3 v	Address Quality Index 📱 1 🗼 Result Count 1	Address3 ~	Address Quality Index 📱 1 🗣 Result Count 1
Address2 v	Address Verfication Code P22-I44-P3-100	Address2 v	Address Verification Code V33-I44-P3-100
Address1 v 21 MANNARINU Street	Organization Empty	Address1 v 21 MANNARINU Street	Organization
	SubBuilding		SubBuilding Empty
	Premise 21 Identified no change		Premise 21 Identified no change
	Building		Building
Locality V Birkirkara	PostBox	Locality V Birkirkara	PostBox
Administrative Area V	Dependent Thoroughfare Empty	AdministrativeArea V	Dependent Thoroughfare Empty
PostalCode V	Thoroughfare Mannarinu Trig	PostalCode	Thoroughfare Trig Mannarinu Verfied atas change
Country V Maita	DoubleDependentLocality Empty	Country V Malta	
Output Script	Dependent Locality Empty	OutputScript V Parse Verify	DoubleDependentLocality Empty DependentLocality Empty
ForceCountry	Locality Birkirkam Verified no change		
DefaultCountry Children Country		DefaultCountry V Enhance	Sub Administrative Area Empty
Clear Options Clear Input Clear Output Process	Administrative/rea Maita Majistral Added	Clear Options Clear Input Clear Output Process	Administrative/Area Northern Harbour Added
	SuperAdministrativeArea Empty		SuperAdministrativeArea Empty
Output	PostalCode BKR Added	Output	PostalCode BKR Added
Address 21 Mannarinu Trig Latitude Birkirkara BKR	Country Malta	Address 21 Trig Mannarinu Lattude	Country Maita
Maita Majistral Longtude	ISO2 MT ISO3 MLT Shortcuta	Northern Harbour Longtude	ISO2 MT ISO3 MLT Shortcuts
Accuracy	Unmatched	Accuracy	Unmatched
Distance	Processed Time 00:00:00 00	Distance	Processed Time 00:00:00 00
Map This Location	To Cipboard	Map This Location	To Clipboard
Server Status: ssOK	Process Status: psOK	Server Status: ssOK	Process Status: psOK





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.

ead of "Marsha	" for Administrative	
 ▼	Output Address Guaffly Indexe Address Verification Code Organization Sub Bulking Premise	Empty Empty
 ▼	Output Address Guaffly Indexe Address Verification Code Organization Sub Bulking Premise	Empty Empty
V Meco Beach Fort, Anata Kabua Bivd V	Address Gualty Index	Empty Empty
V Meco Beach Front, Amata Kabua Bivd	Organization SubBuilding Prenise	Empty
Mieco Beach Front, Amata Kabua Bivd	Organization SubBuilding Prenise	Empty
	SubBuilding	Empty
	Premise	
		and the second s
		Empty
Maiuro	PostBox	Empty
Area V		Empty
96960		Identified no change
V Mershall Islands		Empty
		Empty
		Verified no change
		Added
ny 🗸 🗌 Enhance		Added
ns Clear Input Clear Quiput Process		
		Empty
non Beach Ernet Amata Ku Lattude		Verified no change
ajuro MH 96960		
		Shortcuts
	Unmatched	View All
	Processed Time 00:00:00.00	To Cloboard
		To age and
e pt try ant M	e v 9550 Manhal blands pt v Pare V My ty v Mathal blands pt v Pare V My ty v Pare V My t	b 56560 Mean-Bit Sizen's Throng/Ham b Macco Banch Ford, Ansta Kabus Brd b Same A c Same A





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 (Befo	re Change)	2021Q4.0 (After	Change)
	ome of the addresses. orrect address format.	Able to verify more Output following th	e addresses. e correct address format.
GKR Verify Autocomplete Query Log Analysis ReverseGeoco		GKR Verfy Autocomplete Query Log Analysis ReverseGeocode	- 0 ×
Input Data	Output	Investigation in the second se	Output
	Address Quality Index C 1 🜩 Result Count 1		Address Guality Index C 1 Result Count 1
Organization ~	Address Verification Code P22-I23-P3-100	Organization v	Address Verification Code V22-I23-P0-100
Address V Rontiki	Organization Empty	Address ~ Rontiki	Organization Empty
	SubBuilding Empty		Sub Building Empty
	Premise Empty		Premise Empty
Localty ~	Building Empty		Building Empty
Administrative Area V Pohnpei	PostBox Empty	Locality ~	PostBox Empty
PostalCode	Dependent Thoroughfare Empty Thoroughfare Rontiki Identified context	AdministrativeArea V Pohnpei	Dependent Thoroughfare Empty
Country V Micronesia	DoubleDependentLocality Emoty	FostalCode V Country V Micronesia	Thoroughfare Rontiki Identified context
OutputScript Verfy	Dependent Locality Empty	OutputScript V Parse V Verfy	DoubleDependentLocality Empty DependentLocality Empty
ForceCountry V Match Search	Locality Pohnpei Verified no change	ForceCountry	Locality Pohnoei Verfied no change
DefaultCountry	SubAdministrativeArea Federated States Of Micro Added	DefaultCountry	SubAdministrativeArea Federated States Of Micro Added
Enhance	AdministrativeArea Fm Added	Enhance	Administrative Area FM Added
Clear Options Clear Input Clear Output Process	SuperAdministrativeArea Empty	Clear Options Clear Input Clear Output Process	SuperAdministrativeArea Empty
Output	PostalCode 96941 Added	Output	PostalCode Empty
Address Rontiki Latitude Pohnpei Fm 96941	Country Micronesia, Federated States Of	Address Rontiki Lattude 6.832263	Country Micronesia, Federated States Of
Longitude	ISO2 FM ISO3 FSM Shortcuts	Longitude 158.287694	ISO2 FM ISO3 FSM Shortcute
Accuracy U0	Unmatched Vew All	Accuracy A2	Unmatched View All
Distance Map This Location	Processed Time 00:00:00 To Clipboard	Distance 414491.5	Processed Time 00:00:00 00 To Cloboard
Server Status: ssOK	Process Status: psOK	Map This Location	
		Server Status siOK	Process Status psOK





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.

<text></text>	2021Q3.1 (Befor	re Change)	2021Q4.0 (After	Change)
Control	AdministrativeAre			a. Postal code is verified.
001 Visit / Matered Duty log houges Personalization 001 Visit / Matered Duty log houges 1 D Pensit Cont 1 Address / Log / Log Visit / Log 1 D Pensit Cont 1 Address / Log Visit / Log Visit / Log Visit / Log Visit / Log D Pensit Cont 1 Address / Log Visit / Log Visit / Log Visit / Log Visit / Log D Pensit	S Logate Demonstration UI v2.40.0.15689-c992e12	- • ×		
Marcadarian Alean Image: Control State Dependent Thorughte Image: Control State Image: Contro State	Ppc/Dda 0 v 0 v Address2 v Address1 v	Address Quadity Index [20] [1 [2] Renue Count [1] Address Quadity Index [20] [22(2559-2100) Organization [20] [20] [20] [20] [20] [20] [20] [20]	Address2 v Address1 v BP 63 Locality v Herghane	Address Verification Code V22/65/P5/100 Organization SalkBuilding Premise Empty Building Bitty PostBac Bitty PostBac Bitty Building Bitty Building Bitty B
Public Active Bits Tendoffer Entrophene	Administrative Area			Thoroughtare Empty
Mao This Location Io Lupboard Server Status: solk Process Status: oxOK	Curatry V Here Calebra CastUMort Pase Verly ActiveCassLowy Pase Verly ActiveCassLowy Match Seach OrbatCounty Fromt Geocode OrbatCounty Fromt Geocode Output Dear Upput Process Output Dear Upput Editions Address BE15 Hereghere Latitude 105 3000 Accessor Datace 60 Dear 0000 TextUP	DudinDependerLisolity Entry Developmentationally Entry Loosey Heingtone Welderto change SA-Maninatatine/less Entry Advisoratatine/less Entry PatalCade 9985 Uneffect on change South PatalCade 9985 Uneffect 0	CastLB/rdt CastLB/rdt ActiveCastLbore Match Search DefactCaurby Finnat CastLB/rdt Finnat <	Dependent Locally Herghne Dependent Locally Herghne Verlet no change Sub-Monstative News Herghne Adverter for a change Sub-Monstative News Herghne Adverter for the sub-Monstative News Potat Called States Contry New Cleatorus 1900 MCL 1900 INCL 19
	Map This Location	To Clipboard	Server Status: ssOK	Process Status: psOK .:





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.

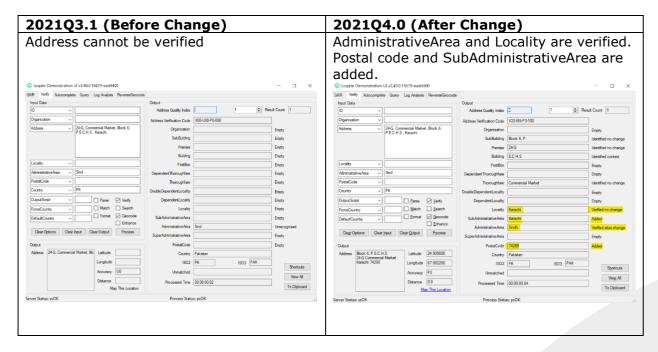
2021Q3.1 (Before Change)			2021Q4.0 (After	Change)
Premise and thoroughfare not able to be verified			Premise and thoro verified	oughfare can now be
S Logate Demonstration UI v2.40.0.15679-ead4400		- 🗆 X	Logate Demonstration UI v2.40.0.15679-ead4400	- 🗆 🗙
GKR Verfy Autocomplete Query Log Analysis ReverseGeoco	le		GKR Verify Autocomplete Query Log Analysis ReverseGeocod	e
Input Data	Output		Input Data	Output
ID ~	Address Quality Index 📮 1 🗣 Resu	it Count 1	ID v	Address Quality Index 📮 1 🖶 Result Count 1
Organization v	Address Verification Code P22-I24-P6-100		Organization v	Address Verification Code V42-144-P6-090
Address1 V ZELEZNICKA 86 OHRID	Organization	Empty	Address1 V ZELEZNICKA 86	Organization Empty
6000	SubBuilding	Empty	6000	SubBuilding Empty
	Premise 86	Identified no change		Premise 86 Verified no change
	Building	Empty		Building Empty
Localty ~	PostBox	Empty	Localty ~	PostBox Empty
AdministrativeArea v	Dependent Thoroughfare	Empty	AdministrativeArea v	Dependent Thoroughfare Empty
PostalCode ~	Thoroughfare Zeleznicka	Identified context	PostalCode v	Thoroughfare Ulica Zheleznichka Verified large change
Country V MK	DoubleDependentLocality	Empty	Country V MK	DoubleDependentLocality Empty
MatchScoreAbsoluteTI ~ Parse Verify	DependentLocality	Empty	MatchScoreAbsoluteTI V	DependentLocality Empty
QueryResultCacheSize v Match Search	Locality Ohvid	Verified no change	QueryResultCacheSize V	Locality Ohnid Ventied no change
OutputScript V Geocode	SubAdministrativeArea	Empty	OutputScript V Eormat Geocode	SubAdministrativeArea Empty
Enhance	AdministrativeArea	Empty	Enhance	Administrative Area Southwestern Added
Clear Options Clear Input Clear Output Process	SuperAdministrativeArea	Empty	Clear Options Clear Input Clear Qutput Process	SuperAdministrativeArea Empty
Output	PostalCode 6000	Verfied no change	Output	PostalCode 6000 Verified no change
Address Zeleznicka 85 Latitude	Country North Macedonia		Address Ulica Zheleznichka 85 Latitude	Country North Macedonia
Longitude	ISO2 MK ISO3 MKD		Longtude	ISO2 MK ISO3 MKD
Accuracy	Unmatched	Shortcuts	Accuracy	Unmatched
Distance	Processed Time 00:00:00.01	View All	Distance	Processed Time 00:00:00.01
Map This Location		To Clipboard	Map This Location	To Opboard
Server Status: csDK	Process Status: nsOK		Server Status: ssOK	Process Status: nsOK





Country Information	Description	
ISO2	РК	
ISO3	РАК	
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.





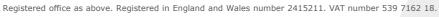


Country Information	Description
ISO2	PW
ISO3	PLW
Address Format	Organization
	PostBox
	SubBuilding Building
	Premise Thoroughfare
	DependentThoroughfare
	DoubleDependentLocality
	DependentLocality
	Locality AdministrativeArea PostalCode
PDH	YES
PDH completed date	2021Q4.0
New Source	NO
Reference Data 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 (Befo	re Change)		2021Q4	1.0 (A	fter Cha	nge)	
AdministrativeAre	AdministrativeArea is added but not in the AdministrativeArea is added and capitalis				italised		
correct format. following the correct format.							
S Logate Demonstration UI v2.40.0.15679-ead4400		- 🗆 ×	S Logate Demonstration U	1 v2.40.0.15679-ead44	00		- 0 ×
GKR Verify Autocomplete Query Log Analysis ReverseGeocod	e		GKR Verify Autocomplete	Query Log Analysis	ReverseGeocode		
Input Data	Output		Input Data		Output		
ID ~	Address Quality Index A	suit Count 1	ID ~		Address Qua	ty Index 📱 🕴 🗘	Result Count 1
Organization v	Address Verification Code V55-I55-P7-100		Organization ~		Address Verifical	on Code V55-I55-P7-100	
Address VICA Palau Office P.O. Box 6047, Koror Republic of PALAU 96940	Organization	Empty		JICA Palau Office P.O.B	ox 6047, Koror	nization	Empty
Republic of PACHO 36340	SubBuilding	Empty	· · · · · · · · · · · · · · · · · · ·	Republic of PALAU 969	40	Building	
	Premise	Empty			30	-	Empty
	Building Jica Palau Office	Identified no change				Premise	Empty
Localty V	PostBox PO Box 6047	Verified alias change				Building Jica Palau Office	Identified no change
Administrative Area	DependentThoroughfare	Emoty	Locality ~			PostBox PO Box 6047	Verified alias change
PostalCode	Thoroughfare	Empty	Administrative Area 🗸		Dependent Tho	ughfare	Empty
County V PW			PostalCode ~		Tho	ughfare	Empty
	DoubleDependentLocality	Empty	Country ~ F	PW	DoubleDepender	Locality	Empty
OutputScript Verfy	DependentLocality	Empty	OutputScript ~	Parse	Verfy Depender	Locality	Empty
ForceCountry V Match Search	Locality Koror	Verfied alias change	ForceCountry ~	Match	Search	Locality Koror	Verified alias change
DefaultCountry V Geocode	SubAdministrativeArea Palau	Added	DefaultCountry ~	Format	Geocode Sub-Administra	SveArea Palau	Added
Clear Options Clear Input Clear Output Process	Administrative Area Pw	Added	Derautodunity		Enhance Administr		Added
Gear Options Gear Input Gear Output Process	SuperAdministrativeArea	Empty	Clear Options Clear In	put Clear Output	Process		
Output	PostalCode 96940-0850	Verfied small change			SuperAdministr		Empty
Address PO Box 6047 Jica Palau Office 7.342210	Country Palau		Output			talCode 96940-0850	Verified small change
Koror Pw 96940-0850 Longtude 134.479090	ISO2 PW ISO3 PLW		Address PO Box 6047 Jica Palau Office	Latitude	7.341940	Country Palau	
Accuracy P2	Unmatched	Shortcuts	Koror PW 96940-0	850 Longitude	134.479170	ISO2 PW ISO3 PLW	Shortcuts
Distance 0.0	Processed Time 00:00:00:01	View All		Accuracy	P2 Ur	natched	
Map This Location		To Clipboard		Distance	0.0 Proces	ed Time 00:00:00 03	View All
Server Status: ssOK	Process Status: psOK			м	ap This Location		To Clipboard
JEVE JELLE BOK	Process status prov		Server Status: ssOK		Pro	ess Status: psOK	
							75

GBG Loqate, 805 Veterans Blvd Ste 305, Redwood City CA 94063-1737, USA T (800) 313-3910 | E support@loqate.com | http://www.loqate.com







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.

dresses up to	
	level 4
	 a) a)
Augustan D (1 (2) A	leakDurt 1
ner Cole 182 444 PS-001	
product.	(mm)
allery	tran
Parties 7	Selain darge
Balley .	Units .
Potla	- Enery
outline	lines.
nation Archaelman	terfect and sharps
rivery .	Evely
riunally.	(many
Looky Serilars	Inductings change
distributions and the second se	Detr
atories Reven	Added
structures	linety .
endow that	Setter to damps
Courty Reven	
1002 ML 1002 FBV	
mathe	Dutus
	To Deloard
and Status politi	





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 (Befo	re Change)		2021Q	4.0 (After	Chang	je)	
Thoroughfare with	Thoroughfare without type verified large		Thoroughfare without type able to be				
change.		- 0 ×	verified	alias chan	ge.		- 🗆 x
GKR Verify Autocomplete Query Log Analysis ReverseGeocod				te Query Log Analysis ReverseGeocod	-		u ~
Input Data	e Output		Input Data	e Query Log Analysis NeverseGeocoo	Output		
Address3 ~	Address Quality Index 💈 1 🔹 Result	Count 1	Address3 V		Address Guality Index	1 0 B	lesuit Count 1
Address2 V Bucuresti 032266	Address Verfication Code V32-144-P6-090		Address2 v	Bucuresti 032266	Address Verification Code	V44-I44-P4-093	
Address1 V Theodor Pallady nr 47, sector 3		Empty	Address1	Theodor Palady nr 47, sector 3	Organization	A44164-64-083	
		Empty			SubBuilding		Empty
		Identified no change				47	Empty Verified no change
		Empty			Premise Building	47	
Localty v		Empty	Locality		PostBox		Empty
Administrative Area v	Dependent Thoroughfare	Empty	Administrative Area				Empty
PostalCode v	Thoroughfare Bulevardul Theodor Pallady	Verfied large change	PostalCode		Dependent Thoroughfare		Empty
Country v Romania	DoubleDependentLocality	Empty		Romania	Thoroughfare	Bulevardul Theodor Pallady	Verfied alias change
OutputScript Verify	DependentLocality Sectorul 3	Verified alias change			DoubleDependentLocality		Empty
ForceCountry	Locality Bucuretti	Verified no change	Output Script ~	Parse Verfy Match Search	DependentLocality		Verfied alias change
DefaultCountry	SubAdministrativeArea	Empty	ForceCountry ~	Gananda	Locality		Verified no change
Enhance	Administrative Area Bucuretti	Added	DefaultCountry ~	Enhance	Sub Administrative Area		Added
Clear Options Clear Input Clear Output Process	SuperAdministrativeArea	Empty	Clear Options Clear	Input Clear Output Process	AdministrativeArea		Added
Output	PostalCode 032266	Verified no change			SuperAdministrativeArea		Added
Address Bulevardul Theodor Pallady Latitude	Country Romania		Output		PostalCode	032258	Verfied large change
Sectorul 3 032266 Bucuretti Longtude	ISO2 RO ISO3 ROU		Address Bulevardul Theo Sectorul 3		Country		
Acouracy	Unmatched	Shortcuta	032258 Bucure	oti Longitude	ISO2	RO ISO3 ROU	Shortcuts
Distance	Processed Time 00:00:00.06	View All		Accuracy	Unmatched		View All
Map This Location		To Clipboard		Distance	Processed Time	00:00:00.01	
Server Status: ssOK	Process Status: psOK			Map This Location			To Clpboard
			Server Status: ssOK		Process Stat	sus: psOK	.:





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	e to be verified	
S Logate Demonstration UI v2.40.0.15679-ead4400		- 🗆 ×	Scoqate Demonstration UI v2.40.0.15679-ead4400	- 🗆 X
GKR Verify Autocomplete Query Log Analysis ReverseGeocod			GKR Verify Autocomplete Query Log Analysis ReverseGeocode	e
Input Data	Output	lesuit Count 1	Input Data	Output
				Address Quality Index D 1 💠 Result Count 1
Organization ~	Address Verification Code P22-I23-P0-100		Organization ~	Address Verification Code V32-133-P0-089
Address1 v Ayua Grande, São Tomé	Organization	Empty	Address 1 v Av. Água Grande, São Tomé	Organization Empty
	SubBuilding	Empty		SubBuilding Empty
	Premise	Empty		Premise Empty
	Building	Empty		Building Empty
Locality ~	PostBox	Empty	Locality ~	PostBox Empty
Administrative Area ~	DependentThoroughfare	Empty	AdministrativeArea 🗸	Dependent Thoroughfare Empty
PostalCode ~	Thoroughfare Av	Identified context	PostalCode v	Thoroughfare Avenida Agua Grande Verfied large change
Country v STP	DoubleDependentLocality	Empty	Country ~ STP	DoubleDependentLocality Empty
MatchScoreAbsoluteTI V Parse Verfy	DependentLocality	Empty	MatchScoreAbsoluteTI V	DependentLocality
QueryResultCacheSize v	Locality São Tomé	Verfied alias change	QueryResultCacheSize V Match Search	Locality São Tomé Verfied no change
Output Script V Geocode	SubAdministrativeArea	Empty	Output Script	SubAdministrativeArea Agua Grande Added
Enhance	AdministrativeArea Agua Grande	Verified no change	Enhance	Administrative Area São Tomé Added
Clear Options Clear Input Clear Output Process	SuperAdministrativeArea	Empty	Clear Options Clear Input Clear Output Process	SuperAdministrativeArea Empty
Output	PostalCode	Empty	Output	PostalCode Empty
Address Av Latitude	Country Sao Tome And Principe		Address Avenida Agua Grande Lattude	Country Sao Tome And Principe
Longtude	ISO2 ST ISO3 STP		São Tomé Longitude	ISO2 ST ISO3 STP
Accuracy	Unmatched	Shortcuts	Accuracy	Unmatched
Distance	Processed Time 00:00:00.00	View All	Detance	Processed Time 00:00:00:00
Map This Location	Processed Time 00.00.00	To Clipboard	Map This Location	Processed Time 00/00/00/00 To Clipboard
Server Status: ssOK	Process Status: psOK		Server Status: ssOK	Process Status: psOK





Sri Lanka (L3)

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.

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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 (Befo	ore Change)	2021Q4.0 (After Change)
Incorrect Adminis	strativeArea returned	Correct AdministrativeArea returned
S Logate Demonstration UI v2.40.0.15679-ead4400 GKR Verfy Autocomplete Query Log Analysis ReverseGeoco		S Logate Demonstration Ul v2400.15679-ead4400 - X
Hopd Date Addres3 Addres3 Image: State Stat	Odget Addees Verface Image: Construct State Addees Verface Empty Addees Verface Empty Operation Empty Schuldrey 157 Verface Empty Pressit Empty Dependent Non-option Empty Dependent Non-option In Na St. Debidiege-metric-control Empty Dependent Non-option Empty Addees Empty Addees Empty Addees Empty Addees Empty Non-option Empty Verfeed lates Empty Verfeed lates Empty Verfeed lates Empty	Vect Bas Odpd Address2 Address2 Address2 Address2 Address1 115 Notes Vect Address2 Address1 115 Address2 115 Address2 115 Address2 115 Address1 115 Address2 115 Address2
Server Status: ssOK	Process Status: pxOK	Server Status: suOK Process Status: puOK





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

	ISO	CONTEXT		REFERENCE
	CODE	RULES	LEXICONS	DATA
	AF			
ÅLAND ISLANDS	AX			
ALBANIA	AL			
ALGERIA	DZ			
AMERICAN SAMOA	AS			
ANDORRA	AD			
ANGOLA	AO			
ANGUILLA	AI			
ANTARCTICA	AQ			
ANTIGUA AND BARBUDA	AG		X	Х
ARGENTINA	AR		X	
ARMENIA	AM			
ARUBA	AW			
AUSTRALIA	AU		X	Х
AUSTRIA	AT			
AZERBAIJAN	AZ			
BAHAMAS	BS			
BAHRAIN	ВН			
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	10			
BRUNEI DARUSSALAM	BN			
BULGARIA	BG			

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

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GAMBIA	GM			
GEORGIA	GE			
GERMANY	DE		х	
GHANA	GH			
GIBRALTAR	GI			
GREECE	GR			
GREENLAND	GL			
GRENADA	GD			
GUADELOUPE	GP			
GUAM	GU			
GUATEMALA	GT			
GUERNSEY	GG			Х
GUINEA	GN			
GUINEA-BISSAU	GW			
GUYANA	GY			
HAITI	HT			
HEARD ISLAND AND MCDONALD ISLANDS	HM			
HONDURAS	HN			
HONG KONG	НК	х	х	
HUNGARY	HU			
ICELAND	IS		х	Х
INDIA	IN			
INDONESIA	ID			
IRAN	IR		Х	
IRAQ	IQ			
IRELAND	IE			Х
ISLE OF MAN	IM			Х
ISRAEL	IL			Х
ITALY	IT			
JAMAICA	JM		х	Х
JAPAN	JP			
JERSEY	JE			Х
JORDAN	JO		х	Х
KAZAKHSTAN	KZ			
KENYA	KE		х	Х
KIRIBATI	KI			
KOREA (DEMOCRATIC PEOPLE'S REPUBLIC OF)	КР			
KOREA, REPUBLIC OF	KR			
KUWAIT	KW			
KYRGYZSTAN	KG			
LAO PEOPLE'S DEMOCRATIC REPUBLIC	LA	x	Х	Х
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		х	Х
MARSHALL ISLANDS	МН			Х
MARTINIQUE	MQ			
MAURITANIA	MR			
MAURITIUS	MU			
MAYOTTE	YT			
MEXICO	MX			
MICRONESIA (FEDERATED STATES OF)	FM			Х
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	МК		Х	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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PAPUA NEW GUINEA	PG			
PARAGUAY	PY			
PERU	PE			
PHILIPPINES	PH			
PITCAIRN	PN			
POLAND	PL			
PORTUGAL	PT			
PUERTO RICO	PR			
QATAR	QA			
RÉUNION	RE		Х	Х
ROMANIA	RO	Х	Х	Х
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		Х	Х
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		Х	X
SUDAN	SD			
SURINAME	SR			
SVALBARD AND JAN MAYEN	SJ			
SWAZILAND	SZ			
SWEDEN	SE			
SWITZERLAND	СН			

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SYRIAN ARAB REPUBLIC	SY		
TAIWAN	TW	Х	Х
TAJIKISTAN	TJ		
TANZANIA, UNITED REPUBLIC OF	TZ		
THAILAND	TH		
TIMOR-LESTE	TL		
TOGO	TG		
TOKELAU	ТК		
TONGA	ТО		
TRINIDAD AND TOBAGO	TT		
TUNISIA	TN		
TURKEY	TR		
TURKMENISTAN	ТМ		
TURKS AND CAICOS ISLANDS	TC		
TUVALU	TV		
UGANDA	UG		
UKRAINE	UA		
UNITED ARAB EMIRATES	AE		
UNITED KINGDOM	GB		Х
UNITED STATES MINOR OUTLYING ISLANDS	UM		
UNITED STATES OF AMERICA	US		Х
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		





Loqate, A GBG Solution

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 Logate 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
СА	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			
МН	39	Data refresh; Geographical changed; All ID changed			
МК	226	Case resolution (CAS-10788-Y5R2H8); Country name correction in LogateGeoStructure_All; Data Refresh; Addition of entries, aliases			
MT	151	Data refresh; Addition of postalcode			
NC	31	Data refresh; Addition of aliases			
РК	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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dma



Geographic Structure Changes

The following table describe changes to the country structures document.

Dataset	Description							
	Updated generic name:							
	Loqate Field	Previously		2021Q4.0				
Poland	Locality Miasta			Gminy				
	DependentLocalityGminyDoubleDependentLocalitWioska			Village Smaller village				
	DoubleDependentLocalit	WIUSKa		Smaller village				
Australia	Data Re-alignment:							
	Previously		2021Q4.0					
	Locality: City/Metropolitar	n are	Locality: City/Metropolitan area/Suburbs					
	DependentLocality: Subur	rbs	Info: Locality from "N" to "Y"					
Israel	Added new DependentLocality level							
Jordan	Added new DependentLocality level;							
Jordan	Info: SubAdministrativeArea from "N" to "Y"							
	Data re-alignment:							
	Previously	[2021Q4.0					
	AdministrativeArea: State	.	2021Q4.0					
	Locality: Municipality		AdministrativeArea: Federal State					
Micronesia	DependentLocality: Village	e	SubAdministrativeArea: County					
			Locality: State					
			DependentLocality: Municipality					
Kenya	Removal of DependentLocality field;							
- , -	Info: Locality from "N" to "Y"							
	Data re-alignment:							
	Previously		2021Q4.0					
Marshall	AdministrativeArea: Islands C	Chain	AdministrativeArea: Island					
Islands	Locality: Municipality		SubAdministrativeArea: Islands Chain					
			Locality: Municipality					
	Country Name changed:							
North Macedonia	Previously		2021.04.0					
maceuonid	-	slav Republic o	2021Q4.0 of North Macedonia					
	Data re-alignment: Previously	I	2021Q4.0					
			AdministrativeArea: Federal State					
Dalau	AdministrativeArea: State							
Palau	Locality: Town/Village		SubAdministrativeArea: County					
			Locality: State					
			DependentLocality: Town/Village					
Taiwan	Added new DependentLocality	y level						
· annun								

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