

Loqate, A GBG Solution Release Notes

2019Q3.0 Major Release

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Case Resolutions

Please visit <http://support.loqate.com/2019q3-0-resolved-cases/> for a list of cases resolved in this release.

If you would like more details on any of the solved cases, please send a request to support@loqate.com.

Local API Improvements

In this release, the Loqate API includes a number of performance-related improvements. In one change, the Verify process will more efficiently handle input data that includes large amounts of indistinguishable or non-address information.

Performance improvements have also been made to individual countries through the optimization of hash index tools.

Change	Description	Country
HashIndex and HashNG	Improves speed in verify for GB addresses.	GBR
Native output	Improves verification level when using transliteration.	GRC, ISR, ARE, KOR, RUS

This change also contributes to a longer-term program to correct cases that "over-populate" component fields. For example, Verify may be making unjustified additions to fields (such as Premise or SubBuilding).

Finally, some tuning in the Japan match rules corrects a number of known Locality selection issues.

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	2019-06-10	2019-09-30
CASS Data	2019-06-28	2019-10-28
*Certification Expiry Date is different from Loqate license key expiry date. The earliest expiry date will apply.		

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

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

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Country Improvement Program (PDH)

The following section will display the changes made during the country improvement program. For this quarter we've released improved datasets for the countries: [Argentina](#), [Colombia](#), [Haiti](#), [Italy](#), [Nicaragua](#), [San Marino](#), [Sint Marteen](#), [Thailand](#), [Qatar](#), and [United Arab Emirates](#).

For more details on our Country Improvement Program, please visit the support site [here](#).

Completed Countries:

New	Country	Date Completed
YES	ARGENTINA	2019-07
YES	COLOMBIA	2019-07
YES	ITALY	2019-07
YES	THAILAND	2019-07
YES	PERU	2019-07
YES	SAN MARINO	2019-07
YES	HAITI	2019-07
YES	NICARAGUA	2019-07
YES	QATAR	2019-07
YES	UNITED ARAB EMIRATES	2019-07
YES	SINT MAARTEN	2019-07
	KOREA, REPUBLIC OF	2019-04
	PORTUGAL	2019-04
	SPAIN	2019-04
	MALAYSIA	2019-04
	PHILIPPINES	2019-04
	URUGUAY	2019-04
	ISLE OF MAN	2019-04
	GUERNSEY	2019-04
	JERSEY	2019-04
	LITHUANIA	2019-04
	SINGAPORE	2018-10

New	Country	Date Completed
	SOUTH AFRICA	2018-10
	AUSTRIA	2018-10
	BRAZIL	2018-07
	MEXICO	2018-07
	CZECH REPUBLIC	2018-04
	UNITED STATES	2018-01
	JAPAN	2018-01
	DENMARK	2018-01
	NORWAY	2018-01
	GERMANY	2017-11
	NETHERLANDS	2017-10
	NEW ZEALAND	2017-10
	FRENCH POLYNESIA	2017-10
	FRANCE	2017-07
	SWEDEN	2017-07
	CANADA	2017-04
	AUSTRALIA	2017-04
	SWITZERLAND	2017-01
	FINLAND	2017-01
	EGYPT	2017-01
	ANDORRA	2017-01
	ECUADOR	2017-01

Improvement statistics for each of the new countries in this release will be available on the website shortly.

Verification Level Improvement

The uplift range describes the improvements made by the PDH process. For example, you may see a record returning a Level 2 (Locality) verification code prior to PDH and a Level 4 (Premise) after PDH; these types of changes demonstrate a positive improvement due to better alignment and cleaner structures in the reference data.

In cases where a record does the opposite, the enhanced dataset may be resolving a previously incorrect or false result.

How we quantify and validate improvement is dependent on the amount of sample data we have available for each country.

Coverage & Completeness

For countries using existing data sources, these may not provide any big changes to the *total* number of deliverable records. Many improvements in datasets will be based around field/value alignments and corrections to the geography hierarchy.

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Argentina

Country Information	Description
ISO2	AR
ISO3	ARG
Address Format (Latin)	Organization PostBox Thoroughfare Premise Building SubBuilding DependentLocality PostalCode Locality
PDH	Yes
PDH completed date	2019Q3.0
New Source	No

Files Used	Pre-PDH	Post-PDH
Reference Data	rd_AR_geo.lfs rd_AR_vfg.lfs rd_AR_enh_S.lfs rd_AR_vfy_ai.lfs	rd_AR_vfy.lfs rd_AR_vfy_ai.lfs rd_AR_ggg.lfs rd_AR_ggg_r.lfs rd_AR_ggg_rg.lfs

In the 2019Q3.0 release, the PDH process made major improvements to data alignment. For example:

- *Villa Rogina* may have been verified as a DependentLocality in 2019Q2.1
- Depending on input information provided, *Villa Rogina* is now be verified as a Locality

Before PDH

Loqate Demonstration UI v2.31.0.9999

Input Data: ID, Organization, Address (11 De Septiembre 26), Locality (Vila Regina), AdministrativeArea (RIO NEGRO), PostalCode (R8336), Country (Argentina).

Output: Address Quality Index (D), Result (1), Result Count (1). Address Verification Code (V32-444-P8-080).

Organization: Empty
SubBuilding: Empty
Premise: 26, Identified no change
Building: Empty
PostBox: Empty
DependentThoroughfare: Empty
Thoroughfare: 18 De Septiembre, Verified small change
DoubleDependentLocality: Empty
DependentLocality: Vila Regina, Added
Locality: General Roca, Verified large change
Sub-AdministrativeArea: Empty
AdministrativeArea: Rio Negro, Verified no change
SuperAdministrativeArea: Empty
PostalCode: 8336, Verified small change
Country: Argentina
ISO2: AR, ISO3: ARG
Unmatched
Processed Time: 00:00:00.05

2019Q2.1 – Argentina Geography information was not aligned

After PDH

Loqate Demonstration UI v2.32.0.10081

Input Data: ID, Organization, Address (11 De Septiembre 26), Locality (Vila Regina), AdministrativeArea (RIO NEGRO), PostalCode (R8336), Country (Argentina).

Output: Address Quality Index (D), Result (1), Result Count (1). Address Verification Code (V32-444-P8-080).

Organization: Empty
SubBuilding: Empty
Premise: 26, Identified no change
Building: Empty
PostBox: Empty
DependentThoroughfare: Empty
Thoroughfare: 18 De Septiembre, Verified small change
DoubleDependentLocality: Empty
DependentLocality: Empty
Locality: Vila Regina, Verified no change
Sub-AdministrativeArea: General Roca, Added
AdministrativeArea: Rio Negro, Verified no change
SuperAdministrativeArea: Empty
PostalCode: 8336, Verified small change
Country: Argentina
ISO2: AR, ISO3: ARG
Unmatched
Processed Time: 00:00:00.05

2019Q3.0 – Argentina geography information is aligned

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Country Information	Description
ISO2	CO
ISO3	COL
Address Format (Latin)	Organization PostBox Building Thoroughfare Premise SubBuilding DependentThoroughfare DoubleDependentLocality DependentLocality Locality PostalCode AdministrativeArea
PDH	Yes
PDH completed date	2019Q3.0
New Source	No

Files Used	Pre-PDH	Post-PDH
Reference Data	rd_CO_ai.lfs rd_CO.lfs rd_CO_rg.lfs	rd_CO_ggg.lfs rd_CO_ggg_rg.lfs rd_CO_ggg_r.lfs rd_CO_vfy_ai.lfs rd_CO_vfy.lfs

Effective 2019Q3.0, PDH made improvements to verifying the thoroughfare, for example:

- In 2019Q2.0 and earlier, input Thoroughfare without the type *Avenida* had the fieldStatus 'identified'.
- In 2019Q3.0 after PDH, input Thoroughfare without *Avenida* Thoroughfare type could be verified alias change.

See screenshots below as an example:

Before PDH

Loqate Demonstration UI v2.31.0.9999

Input Data: ID, Address, Address1 (Calle 100 7-33), Locality (Bogotá), AdministrativeArea, PostalCodePrimary, Country (Colombia).

Output: Address Quality Index (5), Result (1), Result Count (1). Address Verification Code (P22-444-P3-100). Organization (Empty), SubBuilding (Empty), Premise (33), Building (Empty), PostBox (Empty), DependentThoroughfare (Empty), Thoroughfare (Calle 100 7), DoubleDependentLocality (Empty), DependentLocality (Empty), Locality (Bogotá), SubAdministrativeArea (Bogotá), SuperAdministrativeArea (Empty), PostalCode (Empty), Country (Colombia), ISO2 (CO), ISO3 (COL). MatchScore/AbsoluteTI (Empty), Match (Empty), Search (Empty), Geocode (Empty), Enhance (Empty). MaxResults (Empty), Format (Empty). Clear Options, Clear Input, Clear Output, Process.

Output: Address (Calle 100 7-33), Latitude (Empty), Longitude (Empty), Accuracy (Empty), Distance (Empty), Map This Location. Processed Time (00:00:00.36). Server Status: suOK, Process Status: prOK.

2019Q2.0 - Input thoroughfare without 'Avenida' thoroughfare type is identified.

After PDH

Loqate Demonstration UI v2.31.0.9999

Input Data: ID, Address, Address1 (Calle 100 7-33), Locality (Bogotá), AdministrativeArea, PostalCodePrimary, Country (Colombia).

Output: Address Quality Index (5), Result (1), Result Count (1). Address Verification Code (V44-444-P3-100). Organization (Empty), SubBuilding (Empty), Premise (33), Building (Empty), PostBox (Empty), DependentThoroughfare (Empty), Thoroughfare (Avenida Calle 100 7), DoubleDependentLocality (Empty), DependentLocality (Chapinero), Locality (BOGOTÁ), SubAdministrativeArea (BOGOTÁ D.C.), SuperAdministrativeArea (Empty), PostalCode (110321), Country (Colombia), ISO2 (CO), ISO3 (COL). MatchScore/AbsoluteTI (Empty), Match (Empty), Search (Empty), Geocode (Empty), Enhance (Empty). MaxResults (Empty), Format (Empty). Clear Options, Clear Input, Clear Output, Process.

Output: Address (Avenida Calle 100 7-33), Latitude (4.679900), Longitude (-74.038690), Accuracy (14), Distance (6.0), Map This Location. Processed Time (00:00:00.00). Server Status: suOK, Process Status: prOK.

2019Q3.0 - Input thoroughfare without 'Avenida' thoroughfare type could be verified alias change.

Country Information	Description
ISO2	IT
ISO3	ITA
Address Format (Latin)	Organization PostBox Building SubBuilding Thoroughfare Premise DependentThoroughfare PostalCode Locality/SubAdministrativeArea AdministrativeArea
PDH	Yes
PDH completed date	2019Q3.0
New source(s)	Yes
Data source(s) Last Updated	2019Q3.0

Files Used	Pre-PDH	Post-PDH
Reference Data	rd_IT.lfs rd_IT_ai.lfs rd_IT_geop.lfs rd_IT_geop_r.lfs rd_IT_geop_rg.lfs rd_IT_rg.lfs	rd_IT_ggg.lfs rd_IT_ggg_r.lfs rd_IT_ggg_rg.lfs rd_IT_vfy_ai.lfs rd_IT_vfy.lfs

With the 2019Q3.0 release, extensive data alignment work has improved how DependentLocality, Locality, and SubAdministrativeArea are classified. For Example:

- In 2019Q2.0, there maybe some cases were *San* is verified in the DependentLocality
- In 2019Q3.0, these short names may now be verified with the corresponding full name value

Before PDH

2019Q2.0 – These are values outputted in DependentLocality field during the verify process.

After PDH

2019Q3.0- Data realignment had been done for the new Italy data. These DependentLocality and Locality in 2019Q2.0 had been promoted into higher level, Locality and SubAdministrativeArea accordingly.

Before PDH

2019Q2.0 – There some field values outputted with the short name alias such as 'San', 'Aci' and etc.

After PDH

2019Q3.0 –The corresponding full name value will be output instead of the short name alias

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Thailand

Country Information	Description
ISO2	TH
ISO3	THA
Address Format (Latin)	Organization PostBox SubBuilding Building Premise DependentThoroughfare Thoroughfare DoubleDependentLocality DependentLocality Locality AdministrativeArea PostalCode
PDH	Yes
PDH completed date	2019Q3.0
New Source	No

Files Used	Pre-PDH	Post-PDH
Reference Data	rd_TH_ggg.lfs rd_TH_ggg_rg.lfs rd_TH_vfy_ai.lfs rd_TH_vfy.lfs	rd_TH_ggg.lfs rd_TH_ggg_rg.lfs rd_TH_vfy_ai.lfs rd_TH_vfy.lfs

Effective 2019Q3.0, PDH improves the parsing and validation of the Thoroughfare, Premise, Locality, and DependentLocality fields.

- In 2019Q2.0, some thoroughfares and premise may only show the field status as 'identified no change', even though it is available within the reference data.
- After PDH, in 2019Q3.0, if the data is available in the reference data, you may now see the thoroughfare as 'verified small change' and the premise as 'verified'.

Effective 2019Q3.0, PDH improves the DependentLocality parsing issue.

- In 2019Q2.0, some case have have parsed the DependentLocality into Double Dependent Locality and Thoroughfare field status is 'identified no change'.
- After PDH, in 2019Q3.0, the DependentLocality will now be parsed correctly and the thoroughfare field status will now be 'verified alias change'.

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See screenshot below for example:

Before PDH

Loqate Demonstration UI v2.31.0.9999

Input Data

Organization

Address

Locality

AdministrativeArea

PostalCode

Country

MaxMatchRuleCandidi

MatchScoreAbsoluteTl

MatchReferenceMatch

Clear Options

Clear Input

Clear Output

Process

Output

Address Quality Index

Address Verification Code

Organization

SubBuilding

Premise

Building

PostBox

DependentThoroughfare

Thoroughfare

DoubleDependentLocality

DependentLocality

Locality

SubAdministrativeArea

AdministrativeArea

SuperAdministrativeArea

PostalCode

Country

ISO2

ISO3

Unmatched

Processed Time

Shortcuts

View All

To Clipboard

Server Status: ssOK

Process Status: psOK

2019Q2.0 - Thoroughfare and premise is identified.

After PDH

Loqate Demonstration UI v2.31.0.9999

Input Data

Organization

Address

Locality

AdministrativeArea

PostalCode

Country

MaxMatchRuleCandidi

MatchScoreAbsoluteTl

MatchReferenceMatch

Clear Options

Clear Input

Clear Output

Process

Output

Address Quality Index

Address Verification Code

Organization

SubBuilding

Premise

Building

PostBox

DependentThoroughfare

Thoroughfare

DoubleDependentLocality

DependentLocality

Locality

SubAdministrativeArea

AdministrativeArea

SuperAdministrativeArea

PostalCode

Country

ISO2

ISO3

Unmatched

Processed Time

Shortcuts

View All

To Clipboard

Server Status: ssOK

Process Status: psOK

2019Q3.0 - Thoroughfare is verified small change and verified up to premise.

Loqate Demonstration UI v2.31.0.9999

Input Data

Organization

Address

Locality

AdministrativeArea

PostalCode

Country

MaxMatchRuleCandidi

MatchScoreAbsoluteTl

MatchReferenceMatch

Clear Options

Clear Input

Clear Output

Process

Output

Address Quality Index

Address Verification Code

Organization

SubBuilding

Premise

Building

PostBox

DependentThoroughfare

Thoroughfare

DoubleDependentLocality

DependentLocality

Locality

SubAdministrativeArea

AdministrativeArea

SuperAdministrativeArea

PostalCode

Country

ISO2

ISO3

Unmatched

Processed Time

Shortcuts

View All

To Clipboard

Server Status: ssOK

Process Status: psOK

2019Q2.0 - Dependent Locality is wrongly parsed into Double Dependent Locality and Thoroughfare is identified.

Loqate Demonstration UI v2.31.0.9999

Input Data

Organization

Address

Locality

AdministrativeArea

PostalCode

Country

MaxMatchRuleCandidi

MatchScoreAbsoluteTl

MatchReferenceMatch

Clear Options

Clear Input

Clear Output

Process

Output

Address Quality Index

Address Verification Code

Organization

SubBuilding

Premise

Building

PostBox

DependentThoroughfare

Thoroughfare

DoubleDependentLocality

DependentLocality

Locality

SubAdministrativeArea

AdministrativeArea

SuperAdministrativeArea

PostalCode

Country

ISO2

ISO3

Unmatched

Processed Time

Shortcuts

View All

To Clipboard

Server Status: ssOK

Process Status: psOK

2019Q3.0 - Dependent Locality is parsed correctly and thoroughfare is verified alias change.

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Haiti

Country Information	Description
ISO2	HT
ISO3	HTI
Address Format (Latin)	Organization SubBuilding Building Thoroughfare Premise DoubleDependentLocality DependentLocality PostalCode Locality
PDH	Yes
PDH completed date	2019Q3.0
New Source	No
Last date updated	2019Q3.0

Files Used	Pre-PDH	Post-PDH
Reference Data	rd_HT_ai.lfs rd_HT.lfs rd_HT_rg.lfs	rd_HT_ggg.lfs rd_HT_ggg_rg.lfs rd_HT_vfy_ai.lfs rd_HT_vfy.lfs

In the 2019Q3.0 release, the PDH process made improvements to parsing and verifying the locality and PostalCode. For example:

- In 2019Q2.0 and earlier, the Locality: P-au-P was verified with a field status of 'identified context' and the postal code 6111 may not have included the preceding 'HT'. Also, the postal code also may have been marked as unmatched information.
- After PDH, the Locality may now be verified as: 'Port-au-Prince' with the field status 'verified alias change' and added 'HT' preceding the PostalCode 6111. The postal code may now be able to be parsed and verified as a valid postal code.

Nicaragua

Country Information	Description
ISO2	NI
ISO3	NIC
Address Format (Latin)	Organization PostBox Building SubBuilding Thoroughfare Premise DependentThoroughfare DoubleDependentLocality DependentLocality PostalCode Locality, AdministrativeArea
PDH	Yes
PDH completed date	2019Q3.0
New Source	No

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Files Used	Pre-PDH	Post-PDH
Reference Data	rd_NI_ggg.lfs rd_NI_ggg_rg.lfs rd_NI_vfy.lfs rd_NI_vfy_ai.lfs	rd_NI_ggg.lfs rd_NI_ggg_rg.lfs rd_NI_vfy_ai.lfs rd_NI_vfy.lfs

The PDH process included improvements to the address format in Nicaragua. For instance, PDH added the comma separated value between the Locality and AdministrativeArea fields within the output address.

- Prior to PDH, the output field displayed: [Locality] [AdministrativeArea]
- After PDH, the output field will display: [Locality],[AdministrativeArea]

San Marino

Country Information	Description
ISO2	SM
ISO3	SMR
Address Format (Latin)	Organization PostBox Building SubBuilding Thoroughfare Premise DependentThoroughfare DoubleDependentLocality DependentLocality PostalCode Locality
PDH	Yes
PDH completed date	2019Q3.0
New Source	No

Files Used	Pre-PDH	Post-PDH
Reference Data	rd_SM.lfs rd_SM_ai.lfs rd_SM_rg.lfs	rd_SM_ggg.lfs rd_SM_ggg_rg.lfs rd_SM_vfy_ai.lfs rd_SM_vfy.lfs

Effective 2019Q3.0, PDH process added the postal code to the address format in San Marino.

- Prior to PDH, the output field displays: [Country]
- After PDH, the output field will display: [Postal Code][Country]

Effective 2019Q3.0, PDH also makes improvements to the parsing and validation of Locality and AdministrativeArea.

- Prior to PDH, there maybe some samples where AdministrativeArea is parsed as Locality and Locality parsed as DependentLocality. For example: *Città Di San Marino* will be verified as Locality and *Borgo Maggiore* will be verified as DependentLocality.
- After PDH, *Borgo Maggiore* may be parsed as Locality and *Città Di San Marino* will be parsed as AdministrativeArea.

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Sint Marteen

Country Information	Description
ISO2	SX
ISO3	SXM
Address Format (Latin)	Organization PostBox Building SubBuilding Thoroughfare Premise DependentThoroughfare DoubleDependentLocality DependentLocality Locality AdministrativeArea
PDH	Yes
PDH completed date	2019Q3.0
New Source	No

Files Used	Pre-PDH	Post-PDH
Reference Data	rd_SX_ai.lfs rd_SX.lfs rd_SX_rg.lfs	rd_SX_ggg.lfs rd_SX_ggg_rg.lfs rd_SX_vfy_ai.lfs rd_SX_vfy.lfs

Effective 2019Q3.0, PDH makes improvements to the verification of the thoroughfare and AdministrativeArea, for example:

- Prior to PDH, some thoroughfares may only show the field status as 'identified no change'.
- After PDH, if the input thoroughfare is available in the reference data, it may now show as verified and the Administrative Area may be included in the Address format.

Qatar

Country Information	Description
ISO2	QA
ISO3	QAT
Address Format (Latin)	Organization PostBox SubBuilding Building Premise Thoroughfare DependentThoroughfare DoubleDependentLocality DependentLocality Locality PostalCode
PDH	Yes
PDH completed date	2019Q3.0
New Source	No

Files Used	Pre-PDH	Post-PDH
Reference Data	rd_QA_ggg.lfs rd_QA_ggg_rg.lfs rd_QA_vfy_ai.lfs rd_QA_vfy.lfs	rd_QA_ggg.lfs rd_QA_ggg_rg.lfs rd_QA_vfy_ai.lfs rd_QA_vfy.lfs

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The 2019Q3.0 release makes improvements to parsing and verification in the DependentLocality field. For example:

- Prior to PDH for example, using the input DependentLocality *Onaiz,a* the fieldStatus may return 'identified no change'.
- Post PDH, using the input DependentLocality *Onaiza* will now be verified as an alias.

United Arab Emirates

Country Information	Description
ISO2	AE
ISO3	ARE
Address Format (Latin)	Organization PostBox SubBuilding Building Premise Thoroughfare DoubleDependentLocality DependentLocality Locality
PDH	Yes
PDH completed date	2019Q3.0
New Source	No

Files Used	Pre-PDH	Post-PDH
Reference Data	rd_AE.lfs rd_AE_ai.lfs rd_AE_rg.lfs	rd_AE_vfy.lfs rd_AE_vfy_ai.lfs rd_AE_ggg.lfs rd_AE_ggg_rg.lfs

2019Q3.0 improves the parsing and verification for Locality and DependentLocality fields. For example:

- In 2019Q2.0 and earlier, *Dubai Internet City* may show as 'identified context' within the Locality field.
- In 2019Q3.0, *Dubai Internet City* is now be verified as DependentLocality, depending on the input data.

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Knowledge Base & Reference Data Updates

The table below shows which countries have been updated, and how, in this release.

- Reference Data = 189 countries
- Lexicons = 27 countries
- Context Rules = 1 countries

COUNTRY	ISO2	CONTEXT	LEXICON	REF. DATA
CHAD	TD			X
CHRISTMAS ISLAND	CX			X
COCOS (KEELING) ISLANDS	CC			X
COLOMBIA	CO		X	X
COMOROS	KM			X
CONGO	CG			X
COOK ISLANDS	CK			X
COSTA RICA	CR			X
CÔTE D'IVOIRE	CI			X
CROATIA	HR			X
CUBA	CU			X
CURAÇAO	CW			X
CYPRUS	CY			X
DJIBOUTI	DJ			X
DOMINICA	DM			X
ECUADOR	EC		X	
EGYPT	EG		X	
EQUATORIAL GUINEA	GQ			X
ERITREA	ER			X
ESTONIA	EE			X
ESWATINI	SZ			X
ETHIOPIA	ET			X
FALKLAND ISLANDS (MALVINAS)	FK			X
FAROE ISLANDS	FO			X
FIJI	FJ			X
FRENCH GUIANA	GF			X
FRENCH SOUTHERN TERRITORIES	TF			X
GABON	GA			X
GAMBIA	GM			X
GEORGIA	GE			X
GHANA	GH			X
GIBRALTAR	GI			X
GREECE	GR			X
GRENADA	GD			X
GUADELOUPE	GP			X
GUAM	GU			X
GUERNSEY	GG			X
GUINEA	GN			X
GUINEA-BISSAU	GW			X
GUYANA	GY			X
HAITI	HT		X	X
HOLY SEE (VATICAN CITY STATE)	VA			X

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COUNTRY	ISO2	CONTEXT	LEXICON	REF. DATA
HONDURAS	HN			X
HUNGARY	HU			X
ICELAND	IS			X
IRAN, ISLAMIC REPUBLIC OF	IR			X
IRAQ	IQ			X
IRELAND	IE			X
ISLE OF MAN	IM			X
ITALY	IT		X	X
JERSEY	JE			X
JORDAN	JO			X
KENYA	KE			X
KIRIBATI	KI			X
KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF	KP			X
KOREA, REPUBLIC OF	KR		X	
KUWAIT	KW			X
KYRGYZSTAN	KG			X
LAO PEOPLE'S DEMOCRATIC REPUBLIC	LA			X
LATVIA	LV		X	X
LEBANON	LB			X
LESOTHO	LS			X
LIBERIA	LR			X
LIBYA	LY			X
LITHUANIA	LT		X	
LUXEMBOURG	LU			X
MACEDONIA (NORTH MACEDONIA)	MK			X
MADAGASCAR	MG			X
MALAWI	MW			X
MALAYSIA	MY		X	
MALDIVES	MV			X
MALI	ML			X
MALTA	MT			X
MARSHALL ISLANDS	MH			X
MARTINIQUE	MQ			X
MAURITANIA	MR			X
MAURITIUS	MU			X
MAYOTTE	YT			X
MEXICO	MX		X	X
MICRONESIA, FEDERATED STATES OF	FM			X
MOLDOVA, REPUBLIC OF	MD			X
MONACO	MC			X
MONGOLIA	MN			X
MONTENEGRO	ME			X
MONTSERRAT	MS			X
MOROCCO	MA			X
MYANMAR	MM			X
NAMIBIA	NA			X
NAURU	NR			X
NEPAL	NP			X
NETHERLANDS	NL			X

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NEW CALEDONIA	NC			X
NICARAGUA	NI		X	X
NIGER	NE			X
NIGERIA	NG			X
NIUE	NU			X
NORFOLK ISLAND	NF			X
NORTHERN MARIANA ISLANDS	MP			X
OMAN	OM			X
PAKISTAN	PK			X
PALAU	PW			X
PALESTINE, STATE OF	PS			X
PAPUA NEW GUINEA	PG			X
PARAGUAY	PY			X
PERU	PE		X	
PHILIPPINES	PH		X	
PITCAIRN	PN			X
PORTUGAL	PT		X	
PUERTO RICO	PR			X
QATAR	QA		X	X
RÉUNION	RE			X
ROMANIA	RO			X
RWANDA	RW			X
SAINT BARTHÉLEMY	BL			X
SAINT HELENA, ASCENSION AND TRISTAN DA CUNHA	SH			X
SAINT KITTS AND NEVIS	KN			X
SAINT LUCIA	LC			X
SAINT MARTIN (FRENCH PART)	MF			X
SAINT PIERRE AND MIQUELON	PM			X
SAINT VINCENT AND THE GRENADINES	VC			X
SAMOA	WS			X
SAN MARINO	SM		X	X
SAO TOME AND PRINCIPE	ST			X
SENEGAL	SN			X
SERBIA	RS			X
SEYCHELLES	SC			X
SIERRA LEONE	SL			X
SINT MAARTEN	SX		X	X
SLOVAKIA	SK		X	X
SLOVENIA	SI			X
SOLOMON ISLANDS	SB			X
SOMALIA	SO			X
SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS	GS			X
SOUTH SUDAN, REPUBLIC OF	SS			X
SPAIN	ES		X	
SRI LANKA	LK			X
SUDAN	SD			X
SURINAME	SR			X
SVALBARD AND JAN MAYEN	SJ			X
SWEDEN	SE		X	

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COUNTRY	ISO2	CONTEXT	LEXICON	REF. DATA
SWITZERLAND	CH		X	
SYRIAN ARAB REPUBLIC	SY			X
TAIWAN, PROVINCE OF CHINA	TW			
TAJIKISTAN	TJ			X
TANZANIA, UNITED REPUBLIC OF	TZ			
THAILAND	TH		X	X
TIMOR-LESTE	TL			X
TOGO	TG			X
TOKELAU	TK			X
TONGA	TO			X
TRINIDAD AND TOBAGO	TT			X
TUNISIA	TN			X
TURKMENISTAN	TM			X
TURKS AND CAICOS ISLANDS	TC			X
TUVALU	TV			X
UKRAINE	UA			X
UNITED ARAB EMIRATES	AE		X	X
UNITED KINGDOM	GB		X	X
UNITED STATES	US			X
UNITED STATES MINOR OUTLYING ISLANDS	UM			X
UZBEKISTAN	UZ			X
VANUATU	VU			X
VENEZUELA, BOLIVARIAN REPUBLIC	VE			X
VIRGIN ISLANDS, BRITISH	VG			X
VIRGIN ISLANDS, U.S.	VI			X
WALLIS AND FUTUNA	WF			X
WESTERN SAHARA	EH			X
YEMEN	YE			X
ZAMBIA	ZM			X
ZIMBABWE	ZW			X

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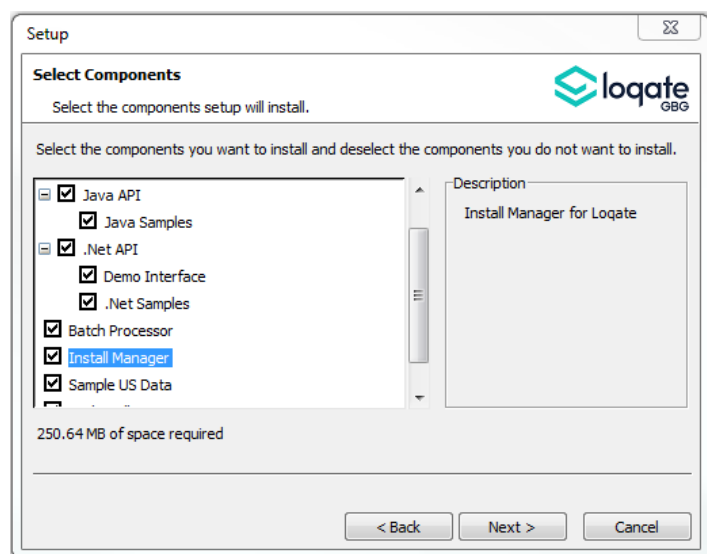
Installation Instructions

The 2019Q3.0 release makes improvements to the performance of the verification process and the quality of the results.

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. 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 support@loqate.com.

[GBG Loqate data packs](#) can be downloaded and installed using the Install Manager. This is a component you will need to select during the installation of the Local API as shown below.



Standard GBG Loqate Installation (Multi-threaded)

1. Download the contents of the [2019Q3.0/AppInstaller](#) directory.
2. Check the MD5 checksums to ensure that the download has been successful.
3. Run the relevant Loqate Local API installer. Please note you may need to add execute privileges to the relevant installer when using Linux. Make sure the option "Install Manager" is selected for installation.
4. Execute the Install Manager script (InstallManager.bat on Windows and InstallManager.sh on other Linux/Unix platforms) and install the data. For further details, please review the 2019Q3.0 Installation Instructions document.
5. Run the relevant Global Knowledge Repository installer. Please note you may need to add execute privileges when using Linux.

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Single-threaded GBG Loqate Installation

1. Download the contents of the [2019Q3.0/STAppInstaller](#) directory.
2. Check the MD5 checksums to ensure that the download has been successful.
3. Run the relevant Loqate Local API installer. Please note you may need to add execute privileges to the relevant installer when using Linux. Make sure the option "Install Manager" is selected for installation.
4. Execute the InstallManager script (InstallManager.bat on Windows and InstallManager.sh on other Linux/Unix platforms) and install the data. For further details, please review the 2019Q3.0 Installation Instructions document.
5. Run the relevant Global Knowledge Repository installer. Please note you may need to add execute privileges when using Linux.

SFTP Server Contents

On the GBG Loqate SFTP server, you will find the following items:

- [AppInstaller](#): The folder which contains the Loqate Local API installer
- loqate_installer_aix: The AIX Loqate Local API installer
- loqate_installer_hpux: The HP-UX Loqate Local API installer
- loqate_installer_solaris_x86: The Solaris x86 Loqate Local API installer
- loqate_installer_sparc: The Solaris SPARC Loqate Local API installer
- loqate_installer_x86: The Linux 32-bit Loqate Local API installer
- loqate_installer_x86-cpp5: The Linux 32-bit C++ v5 Local API Loqate library installer
- loqate_installer_x86_64: The Linux 64-bit Loqate Local API installer
- setup.exe: The Windows 32-bit Loqate Local API installer
- setup_x64.exe: The Windows 64-bit Loqate Local API installer
- AppInstaller-md5.txt : Contains the checksums of the files in the folder
- [STAppInstaller](#): The folder which contains the Loqate Local API installer for single-threaded libraries
- loqate_installer_aix: The AIX Loqate Local API installer
- loqate_installer_hpux: The HP-UX Loqate Local API installer
- loqate_installer_solaris_x86: The Solaris x86 Loqate Local API installer
- loqate_installer_sparc: The Solaris SPARC Loqate Local API installer
- loqate_installer_x86: The Linux 32-bit Loqate Local API installer
- loqate_installer_x86-cpp5: The Linux 32-bit C++ v5 Local API Loqate library installer
- loqate_installer_x86_64: The Linux 64-bit Loqate Local API installer
- AppInstaller-md5.txt : Contains the checksums of the files in the folder
- STAppInstaller-md5.txt : Contains the checksums of the files in the folder
- [OSGi](#): The folder which contains the OSGi bundle for the Loqate Local API
- loqate-osgi-1.0.0.0.jar: The OSGi bundle for Loqate Local API installer
- osgi-md5.txt: Contains the checksums of the files in the folder
- [Rawfiles](#): The folder which contains the Loqate Local API files in the following subfolders
- aix: The AIX Loqate Local API library files
- hp-ux: The HP-UX Loqate Local API library files
- solaris_x86: The Solaris x86 Loqate Local API library files
- sparc: The Solaris SPARC Loqate Local API library files
- linux32: The Linux 32-bit Loqate Local API library files
- linux32-cpp5: The Linux 32-bit C++ v5 Loqate Local API library files
- linux64: The Linux 64-bit Loqate Local API library files
- win64: The Windows 32-bit Loqate Local API library files
- win32: The Windows 64-bit Loqate Local API library files

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Need Help?

Many answers to your questions may be found in our support pages. For full access to the technical information provided on our website, please make sure to register at:
<http://support.loqate.com/wp-login.php?action=register>

- **Support Home Page:** <http://support.loqate.com>
- **Local APIs:** <http://support.loqate.com/support/local-apis/>
- **Field Descriptions:** <http://support.loqate.com/support/fielddescrip/>
- **Server and Process Options:** <http://support.loqate.com/support/options/>
- **System Requirements:** <http://support.loqate.com/system-requirements/>

If you have any general questions, issues, or enhancement request you'd like to share with us, please fill out our case submission web form at <http://support.loqate.com/support/file-a-case/>.

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