

GBG Loqate Release Notes

2017Q3.0

GBG Loqate, 805 Veterans Blvd. Ste #305, Redwood City, CA 94063

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Table of Contents

Case Resolutions 3

Verify Engine Updates 3

Transaction Log Collector 3

CASS API Update for SHA-256 migration 3

Global Knowledge Repository (GKR) Updates..... 4

France Country Review 4

Improvement Examples 4

Sweden Country Review..... 5

Improvement Examples 5

Knowledge Base & Reference Data Updates 6

Installation Instructions 13

Standard GBG Loqate Installation (Multi-threaded) 13

Single-threaded GBG Loqate Installation 14

FTP Server Contents 14

Need Help? 15

Case Resolutions

Please visit http://www.loqate.com/support/releasenotes/2017Q3_0cases for a list of cases resolved in this release.

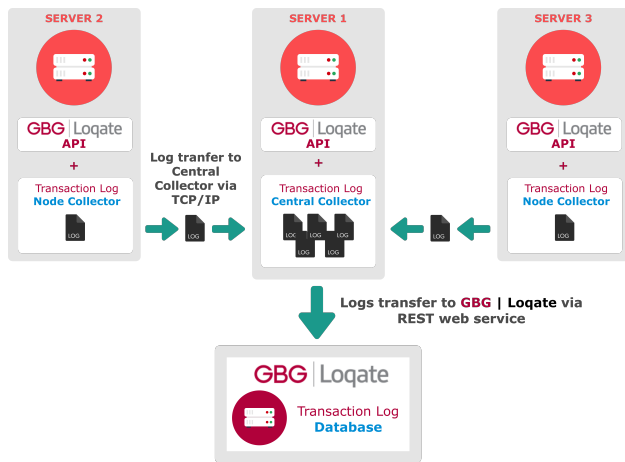
If you would like more details on any of the solved cases listed, please contact support@loqate.com for further information.

Verify Engine Updates

Transaction Log Collector

In this release, Loqate has introduced a new transactional logging management system to help simplify log management in larger deployments of its solutions.

This system will help consolidate all transaction log files generated by Loqate into a central location, which has been identified as a cumbersome task in deployment models involving a high volume of servers, common in auto-scaling or regional-based deployments.



How it works

At every machine (or node) where Loqate Engine is running, there will be a java application called Node Collector that will capture the transaction log files written by the engine.

In addition, there will also be a Central Collector application, which will need to be in a machine that has internet connectivity.

Collector Process

1. Loqate engine creates transaction log files
2. The Node Collector uploads transaction log files to the connected Central Collector.
3. The Central Collector will transmit the collected transaction logs to Loqate via REST web-service.

Please contact your account manager for more details on how to deploy the transaction log management system.

CASS API Update for SHA-256 migration

The USPS has updated the CASS data set's encryption from SHA-1 to SHA-256 for improved security. Loqate has updated its certified CASS API to ensure compatibility with this security update.

The following steps are required in order to utilize the new CASS data sets

- a. Update Loqate API to 2017Q3.0
- b. Use the Install Manager and install the latest CASS API library as well CASS data

Loqate highly recommends updating to Loqate release 2017Q3.0 or higher before August. The USPS will cease providing SHA-1 CASS data updates on this date.

Please contact your account manager for more details or assistance in performing this update.

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Global Knowledge Repository (GKR) Updates

France Country Review

Loqate has completed a comprehensive review of its France data set. Below are the improvements made to the data set:

- Data normalization to ensure address values are consistent across records.
- Data alignment to ensure the data structure accurately represents the country's geography.
- Accurate and consistent aliases and language tags
- Lexicon and context rule review
- Address format review

Improvement Examples

2017Q2.0 – Locality missing correct French accents

2017Q3.0 – Locality with French accents returned

2017Q2.0 – Inaccurate geocoding

2017Q3.0 – Correct geocoding

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Sweden Country Review

Loqate has completed a comprehensive review of its Sweden data set. Below are the improvements made to the data set:

- Data normalization to ensure address values are consistent across records.
- Data alignment to ensure the data structure accurately represents the country's geography.
- Accurate and consistent aliases and language tags
- Lexicon and context rule review
- Address format review

Improvement Examples

Loqate Demonstration UI v2.23.1.9188

Input Data: Locality: Dalby, AdministrativeArea: Lund, PostalCode: 247 56, Country: SE

Output: Address Verification Code: V44-144-P6-075, Locality: Lund, AdministrativeArea: Skåne Län, PostalCode: 247 56, Country: Sweden

Process Status: psOK

2017Q2.0 – Inaccurate Verification

Loqate Demonstration UI v2.24.0.9273

Input Data: Locality: Dalby, AdministrativeArea: Lund, PostalCode: 247 56, Country: SE

Output: Address Verification Code: V44-144-P6-100, Locality: Dalby, AdministrativeArea: Skåne, PostalCode: 247 56, Country: Sweden

Process Status: psOK

2017Q3.0 – Improved Verification

Loqate Demonstration UI v2.23.1.9188

Input Data: Locality: Malmberget, AdministrativeArea: Gällivare, PostalCode: 983 32, Country: SE

Output: Address Verification Code: V44-144-P6-100, Locality: Gällivare, AdministrativeArea: Norrbottens Län, PostalCode: 983 32, Country: Sweden

Process Status: psOK

2017Q2.0 – Misalignment issue

Loqate Demonstration UI v2.24.0.9273

Input Data: Locality: Malmberget, AdministrativeArea: Gällivare, PostalCode: 983 32, Country: SE

Output: Address Verification Code: V44-144-P6-100, Locality: Malmberget, AdministrativeArea: Norrbotten, PostalCode: 983 32, Country: Sweden

Process Status: psOK

2017Q3.0 – Improved Alignment

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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 = 204 countries
- Lexicons = 13 countries
- Context Rules = 6 countries

For the complete table listing all countries, please visit <http://www.loqate.com/support/releasenotes/>.

Country Name	ISO Code	Context Rules	Lexicons	Reference Data
AFGHANISTAN	AF			X
ÅLAND ISLANDS	AX			X
ALBANIA	AL			X
ALGERIA	DZ			X
AMERICAN SAMOA	AS			X
ANDORRA	AD		X	X
ANGOLA	AO			X
ANGUILLA	AI			
ANTARCTICA	AQ			X
ANTIGUA AND BARBUDA	AG			X
ARGENTINA	AR			X
ARMENIA	AM			X
ARUBA	AW			X
AUSTRALIA	AU			
AUSTRIA	AT			X
AZERBAIJAN	AZ			X
BAHAMAS	BS			X
BAHRAIN	BH			X
BANGLADESH	BD			X
BARBADOS	BB			
BELARUS	BY			
BELGIUM	BE			
BELIZE	BZ			X
BENIN	BJ			X
BERMUDA	BM			X
BHUTAN	BT			X
BOLIVIA, PLURINATIONAL STATE OF	BO			
BONAIRE, SINT EUSTATIUS AND SABA	BQ			X
BOSNIA AND HERZEGOVINA	BA			X
BOTSWANA	BW			X
BOUVET ISLAND	BV			
BRAZIL	BR			

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Country Name	ISO Code	Context Rules	Lexicons	Reference Data
BRITISH INDIAN OCEAN TERRITORY	IO			X
BRUNEI DARUSSALAM	BN			X
BULGARIA	BG			
BURKINA FASO	BF			X
BURUNDI	BI			X
CAMBODIA	KH			X
CAMEROON	CM			X
CANADA	CA			X
CAPE VERDE	CV			X
CAYMAN ISLANDS	KY			X
CENTRAL AFRICAN REPUBLIC	CF			X
CHAD	TD			X
CHILE	CL			
CHINA	CN			X
CHRISTMAS ISLAND	CX			X
COCOS (KEELING) ISLANDS	CC			X
COLOMBIA	CO			X
COMOROS	KM			X
CONGO	CG			X
CONGO, THE DEMOCRATIC REPUBLIC OF THE	CD			X
COOK ISLANDS	CK			X
COSTA RICA	CR			X
CÔTE D'IVOIRE	CI			X
CROATIA	HR			
CUBA	CU			X
CURAÇAO	CW			
CYPRUS	CY			X
CZECH REPUBLIC	CZ		X	X
DENMARK	DK			X
DJIBOUTI	DJ			X
DOMINICA	DM			
DOMINICAN REPUBLIC	DO			X
ECUADOR	EC			X
EGYPT	EG			X
EL SALVADOR	SV			X
EQUATORIAL GUINEA	GQ			X
ERITREA	ER			X
ESTONIA	EE			X

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Country Name	ISO Code	Context Rules	Lexicons	Reference Data
ETHIOPIA	ET			X
FALKLAND ISLANDS (MALVINAS)	FK			X
FAROE ISLANDS	FO			X
FIJI	FJ			X
FINLAND	FI			
FRANCE	FR	X	X	X
FRENCH GUIANA	GF			X
FRENCH POLYNESIA	PF			
FRENCH SOUTHERN TERRITORIES	TF			X
GABON	GA			X
GAMBIA	GM			X
GEORGIA	GE			X
GERMANY	DE			
GHANA	GH			X
GIBRALTAR	GI			X
GREECE	GR			X
GREENLAND	GL			X
GRENADA	GD			X
GUADELOUPE	GP			
GUAM	GU			X
GUATEMALA	GT			X
GUERNSEY	GG			X
GUINEA	GN			X
GUINEA-BISSAU	GW			X
GUYANA	GY			X
HAITI	HT			X
HEARD ISLAND AND MCDONALD ISLANDS	HM			
HOLY SEE (VATICAN CITY STATE)	VA			X
HONDURAS	HN			X
HONG KONG	HK	X	X	X
HUNGARY	HU			X
ICELAND	IS			X
INDIA	IN			
INDONESIA	ID			X
IRAN, ISLAMIC REPUBLIC OF	IR			X
IRAQ	IQ			X
IRELAND	IE			X
ISLE OF MAN	IM			X

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ISRAEL	IL			
ITALY	IT		X	
JAMAICA	JM			
JAPAN	JP			X
JERSEY	JE			X
JORDAN	JO			X
KAZAKHSTAN	KZ			
KENYA	KE	X	X	X
KIRIBATI	KI			X
KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF	KP			X
KOREA, REPUBLIC OF	KR			
KUWAIT	KW			X
KYRGYZSTAN	KG			X
LAO PEOPLE'S DEMOCRATIC REPUBLIC	LA			X
LATVIA	LV			
LEBANON	LB			X
LESOTHO	LS			X
LIBERIA	LR			X
LIBYA	LY			X
LIECHTENSTEIN	LI			
LITHUANIA	LT			X
LUXEMBOURG	LU		X	X
MACAO	MO			
MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF	MK			X
MADAGASCAR	MG			X
MALAWI	MW			X
MALAYSIA	MY			
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			
MICRONESIA, FEDERATED STATES OF	FM			X

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Country Name	ISO Code	Context Rules	Lexicons	Reference Data
MOLDOVA, REPUBLIC OF	MD			X
MONACO	MC			X
MONGOLIA	MN			X
MONTENEGRO	ME			X
MONTSERRAT	MS			X
MOROCCO	MA			
MOZAMBIQUE	MZ			
MYANMAR	MM			X
NAMIBIA	NA			X
NAURU	NR			X
NEPAL	NP			X
NETHERLANDS	NL			X
NEW CALEDONIA	NC			X
NEW ZEALAND	NZ			
NICARAGUA	NI			X
NIGER	NE			X
NIGERIA	NG			X
NIUE	NU			X
NORFOLK ISLAND	NF			X
NORTHERN MARIANA ISLANDS	MP			X
NORWAY	NO			
OMAN	OM			X
PAKISTAN	PK			X
PALAU	PW			X
PALESTINE, STATE OF	PS			X
PANAMA	PA			X
PAPUA NEW GUINEA	PG			X
PARAGUAY	PY			X
PERU	PE			
PHILIPPINES	PH			X
PITCAIRN	PN			X
POLAND	PL			X
PORTUGAL	PT	X	X	X
PUERTO RICO	PR			X
QATAR	QA			X
RÉUNION	RE			X
ROMANIA	RO			X
RUSSIAN FEDERATION	RU			

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Country Name	ISO Code	Context Rules	Lexicons	Reference Data
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
SAO TOME AND PRINCIPE	ST			X
SAUDI ARABIA	SA			
SENEGAL	SN		X	X
SERBIA	RS			X
SEYCHELLES	SC			X
SIERRA LEONE	SL			X
SINGAPORE	SG			
SINT MAARTEN	SX			
SLOVAKIA	SK			X
SLOVENIA	SI			X
SOLOMON ISLANDS	SB			X
SOMALIA	SO			X
SOUTH AFRICA	ZA	X	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
SWAZILAND	SZ			X
SWEDEN	SE	X	X	X
SWITZERLAND	CH		X	
SYRIAN ARAB REPUBLIC	SY			X
TAIWAN, PROVINCE OF CHINA	TW			
TAJIKISTAN	TJ			X
TANZANIA, UNITED REPUBLIC OF	TZ			X

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Country Name	ISO Code	Context Rules	Lexicons	Reference Data
THAILAND	TH			X
TIMOR-LESTE	TL			X
TOGO	TG			X
TOKELAU	TK			X
TONGA	TO			X
TRINIDAD AND TOBAGO	TT			X
TUNISIA	TN			X
TURKEY	TR			
TURKMENISTAN	TM			X
TURKS AND CAICOS ISLANDS	TC			X
TUVALU	TV			X
UGANDA	UG			X
UKRAINE	UA			
UNITED ARAB EMIRATES	AE			X
UNITED KINGDOM	GB		X	X
UNITED STATES	US			X
UNITED STATES MINOR OUTLYING ISLANDS	UM			X
URUGUAY	UY			X
UZBEKISTAN	UZ			
VANUATU	VU			X
VENEZUELA, BOLIVARIAN REPUBLIC	VE			X
VIET NAM	VN			
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

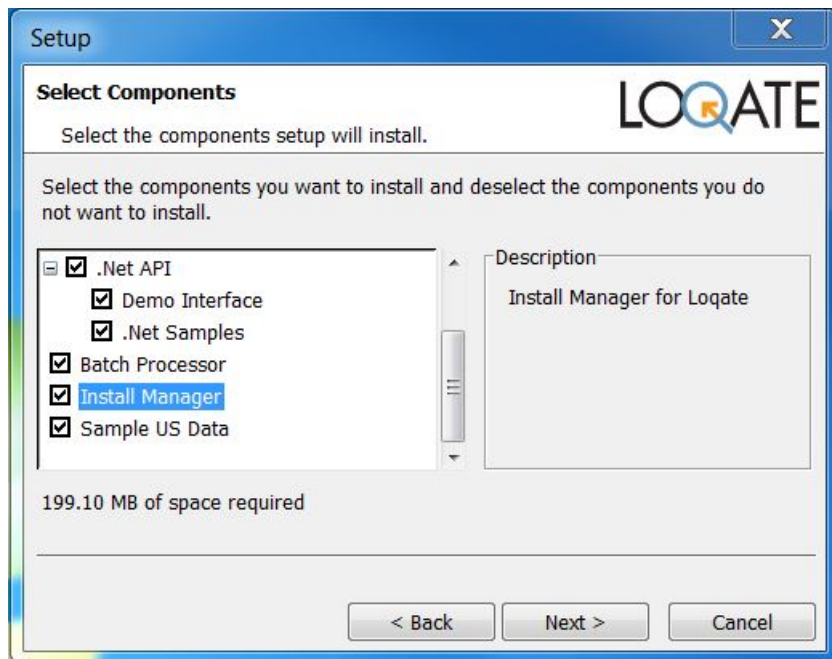
The 2017Q3.0 release makes improvements to the performance of the verification process and the quality of the results.

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 FTP server at:

- Site: <ftp://ftp.loqate.com>
- User: u58463092-build
- Password: lqt0414
- Directory: /2017Q3.0

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 **2017Q3.0/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 2017Q3.0 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 [2017Q3.0/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 2017Q3.0 Installation Instructions document.
5. Run the relevant Global Knowledge Repository installer. Please note you may need to add execute privileges when using Linux.

FTP Server Contents

On the GBG Loqate FTP 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_aix6: The AIX Loqate Local API installer for AIX OS version 6.1
 - 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
 - aix6.1: The AIX Loqate Local API library files for AIX OS version 6.1
 - 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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