**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](mailto: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.

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

|  |  |  |
| --- | --- | --- |
|  | **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.* | | |

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/

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](http://support.loqate.com/country-improvement-program/).

**Completed Countries:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **New** | **Country** | **Date Completed** |  |  | **New** | **Country** | **Date Completed** |
| **YES** | ARGENTINA | 2019-07 |  |  |  | SOUTH AFRICA | 2018-10 |
| **YES** | COLOMBIA | 2019-07 |  |  |  | AUSTRIA | 2018-10 |
| **YES** | ITALY | 2019-07 |  |  |  | BRAZIL | 2018-07 |
| **YES** | THAILAND | 2019-07 |  |  |  | MEXICO | 2018-07 |
| **YES** | PERU | 2019-07 |  |  |  | CZECH REPUBLIC | 2018-04 |
| **YES** | SAN MARINO | 2019-07 |  |  |  | UNITED STATES | 2018-01 |
| **YES** | HAITI | 2019-07 |  |  |  | JAPAN | 2018-01 |
| **YES** | NICARAGUA | 2019-07 |  |  |  | DENMARK | 2018-01 |
| **YES** | QATAR | 2019-07 |  |  |  | NORWAY | 2018-01 |
| **YES** | UNITED ARAB EMIRATES | 2019-07 |  |  |  | GERMANY | 2017-11 |
| **YES** | SINT MAARTEN | 2019-07 |  |  |  | NETHERLANDS | 2017-10 |
|  | KOREA, REPUBLIC OF | 2019-04 |  |  |  | NEW ZEALAND | 2017-10 |
|  | PORTUGAL | 2019-04 |  |  |  | FRENCH POLYNESIA | 2017-10 |
|  | SPAIN | 2019-04 |  |  |  | FRANCE | 2017-07 |
|  | MALAYSIA | 2019-04 |  |  |  | SWEDEN | 2017-07 |
|  | PHILIPPINES | 2019-04 |  |  |  | CANADA | 2017-04 |
|  | URUGUAY | 2019-04 |  |  |  | AUSTRALIA | 2017-04 |
|  | ISLE OF MAN | 2019-04 |  |  |  | SWITZERLAND | 2017-01 |
|  | GUERNSEY | 2019-04 |  |  |  | FINLAND | 2017-01 |
|  | JERSEY | 2019-04 |  |  |  | EGYPT | 2017-01 |
|  | LITHUANIA | 2019-04 |  |  |  | ANDORRA | 2017-01 |
|  | SINGAPORE | 2018-10 |  |  |  | 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.

## 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** | **After PDH** |
| cid:image001.png@01D53727.345C15C0  **2019Q2.1 – Argentina Geography information was not aligned** | cid:image002.png@01D53727.345C15C0  **2019Q3.0 – Argentina geography information is aligned** |

## 

## Colombia

|  |  |
| --- | --- |
| **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 improvents 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** | **After PDH** |
| --- | --- |
| http://confluence.rc.loqate.com/download/attachments/13926714/image2019-6-24%209%3A20%3A29.png?version=1&modificationDate=1561338779000&api=v2  **2019Q2.0 - Input thoroughfare without 'Avenida' thoroughfare type is identified.** | http://confluence.rc.loqate.com/download/attachments/13926714/image2019-6-24%209%3A17%3A18.png?version=1&modificationDate=1561338588000&api=v2  **2019Q3.0 - Input thoroughfare without 'Avenida' thoroughfare type could be verified alias change.** |

## Italy

|  |  |
| --- | --- |
| **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** | **After PDH** |
| --- | --- |
| http://confluence.rc.loqate.com/download/attachments/13926714/image2019-7-1%2010%3A3%3A4.png?version=1&modificationDate=1561946585000&api=v2  **2019Q2.0 – These are values outputted in DependentLocality field during the verify process.** | http://confluence.rc.loqate.com/download/attachments/13926714/image2019-7-1%2010%3A3%3A21.png?version=1&modificationDate=1561946601000&api=v2 **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.** |
| http://confluence.rc.loqate.com/download/attachments/13926714/image2019-7-1%2010%3A3%3A11.png?version=1&modificationDate=1561946592000&api=v2  **2019Q2.0 – There some field values outputted with the short name alias such as ‘San’, ‘Aci’ and etc.** | http://confluence.rc.loqate.com/download/attachments/13926714/image2019-7-1%2010%3A3%3A17.png?version=1&modificationDate=1561946598000&api=v2  **2019Q3.0 –The corresponding full name value will be output instead of the short name alias** |

## 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’.

See screenshot below for example:

| **Before PDH** | **After PDH** |
| --- | --- |
| http://confluence.rc.loqate.com/download/attachments/13926714/image2019-6-24%2015%3A22%3A5.png?version=1&modificationDate=1561360926000&api=v2  **2019Q2.0 - Thoroughfare and premise is identified.** | http://confluence.rc.loqate.com/download/attachments/13926714/image2019-6-24%2015%3A24%3A29.png?version=1&modificationDate=1561361070000&api=v2  **2019Q3.0 - Thoroughfare is verified small change and verified up to premise.** |
| http://confluence.rc.loqate.com/download/attachments/13926714/image2019-6-24%2015%3A54%3A9.png?version=1&modificationDate=1561362850000&api=v2  **2019Q2.0 - Dependent Locality is wrongly parsed into Double Dependent Locality and Thoroughfare is identified.** | http://confluence.rc.loqate.com/download/attachments/13926714/image2019-6-24%2015%3A54%3A58.png?version=1&modificationDate=1561362899000&api=v2  **2019Q3.0 - Dependent Locality is parsed correctly and thoroughfare is verified alias change.** |

## 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 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 |

|  |  |  |
| --- | --- | --- |
| **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.

## 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 |

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 ‘identifed 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.

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 |
| 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 |
| 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 |  |
| 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 |

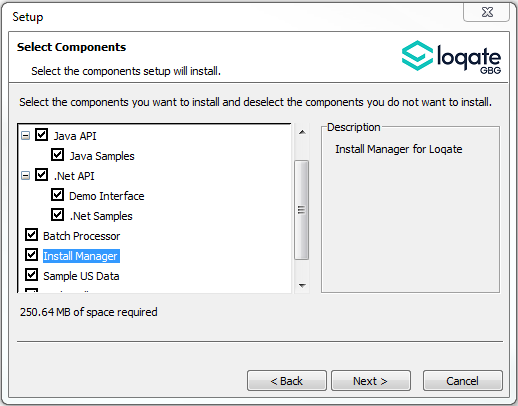
Installation Instructions

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](mailto:support@loqate.com).

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](mailto: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.

## 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

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/.