**Loqate, A GBG Solution Release Notes**

2019Q2.0 Major Release

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Case Resolutions

Please visit <http://support.loqate.com/2019q2-0-resolved-cases/> for a list of cases resolved in this release.

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

Local API Updates

We have further removed the chances of seeing the invalid floating point operation. If a user chooses to report an invalid floating point operation, (\_EM\_INVALID bit), via the floating point control word, ( \_controlfp), the exception will no longer appear.

New Features

The GeocodeRefinement tool is a new option available with the 2019Q2.0 release. This option is used to create stricter matching rules to identify the geocode. **The default value is set to true**.

The Geocode tool uses a new candidate ranking system. This new system will no longer produce false positives and will also be less tolerant to poor country data quality. Please note, you may see several geocode differences with this release, this is to be expected.

The new candidate ranking system requires the geographical hierarchy to be completed before a geocode can be shortlisted. For example, the thoroughfare level geocode returned must be matched by both administrative area and postal code (or locality) level.

In cases where a thoroughfare includes only a match on administrative area and locality, but not matching via the postalcode; these candidates will not be shortlisted as the geographical hierarchy is consider incomplete.

A candidate, in this case, is identified as a particular combination. The below are possible combinations:

* Best candidates: has **Level-1** (AdminArea), **Level-2** (Locality, PostalCode), **Level-3** (Thoroughfare) matches
* Current candidates: has**Level-2** (Locality), **Level-3** (Thoroughfare) matches
* Another candidate: has **Level-1** (AdminArea), **Level-3** (Thoroughfare) matches

When GeocodeRefinement = **True**

* If there is a level-1 and a level-3 matched, but not matching on level-2 input; then the geocode will not be outputted.
* If there are no matches found in level-1, we will proceed if level-1 alias deduction of current candidates against the best candidates (by getting 6 uniformly distribute samples across the two). If all 6 samples show the same (i.e. in terms of aliases) the geocode will be accepted, otherwise we will not accept the geocode.

When GeocodeRefinement = **False**

* The engine will not output a geocode if and only if Verify has a non-empty level-2 result.
* If there are no matches found in level-1, the geocode will be accepted.

Certification Updates

**IMPORTANT - CASS Users:**

1. **New platform available:**

CASS windows64 will now be available with the 2019Q2.0 release. Please follow the Install Manager instructions found [here](https://support.loqate.com/installation-instructions/) and select CASS Library (Windows 64) and USA Verify Dataset CASS to install Windows64.

1. **CASS Expiration Dates:**

CASS is currently set to expire on July 31st, 2019. USPS has extended Cycle N and the new expiry date is July 31st, 2020. **Please upgrade to the 2019Q2.0 API and CASS libraries to continue your CASS usage, otherwise CASS will expire on July 31st, 2019.**

1. **Linux64 Platform Users:**

Due to a crash in CASS on the Linux platform, USPS has provided a new API. In order for the change to take effect, you will need to update both the Loqate API and the CASS library.

**Linux64 Library Update:**

USPS recently updated the libraries to be a single dynamic library. This platform previously had 5 libraries and now changed to a single dynamic library. Please see figure 1 below for the list of valid libraries.

For continue use of CASS on the Linux platform, please update to the 2019Q2.0 release of Loqate API and CASS library.

1. **CASS Windows32 version:**

This platform continues to be 5 dependent dynamic libraries and is compatible with 2019Q2.0 and older release. Please see figure 1 below for the list of valid libraries.

**Figure 1.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Platform** | **Current Libraries (2019Q1.1 and older)** | **New Libraries (2019Q2.0 and newer)** | **Compatible with Loqate API Version** |
| Linux64 | libabbrst.so.1 | libz4lnx64.so | 2019Q2.0 |
|  | libdpv.so.9 |  |  |
|  | libkeymgr.so.3 |  |  |
|  | libstelnk.so.2 |  |  |
|  | libz4lnx64.so |  |  |
| Win32 | abbrst1.dll | No change | 2019Q2.0 |
|  | dpv9.dll |  | + older versions |
|  | keymgr3.dll |  |  |
|  | stelnk2.dll |  |  |
|  | zip4\_w32.dll |  |  |
| Win64 | None | zip4\_w64.dll | New Platform - 2019Q2.0 |

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 | 2019-03-06 | 2019-06-30 |
| CASS Data | 2019-04-17 | 2019-07-29 |
| *\*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.loqate.com/documentation/local-apis/cass-overview-2/ and https://support.loqate.com/address-matching-approval-system-amas/

Country Improvement Project (PDH)

The following section will display the changes made during the country improvement process. For this quarter we’ve released improved datasets for 11 countries.

Guernsey

|  |  |
| --- | --- |
| **Country Information** | **Description** |
| ISO 2 | GG |
| ISO 3 | GGY |
| Address Format | Organization  PostBox  SubBuilding SubBuildingFloor Building  Premise Thoroughfare  DoubleDependentLocality  DependentLocality  Locality  PostalCode |
| PDH | Yes (2019Q2.0) |
| New Source | No |

|  |  |  |
| --- | --- | --- |
| **Files Used** | **Pre-PDH** | **Post-PDH** |
| Knowledge Base Files | Country.lfs  Context.lfs  Format.lfs | Country.lfs  Context.lfs  Format.lfs |
| Reference Data | rd\_GG\_geo.lfs  rd\_GG\_geo\_rg.lfs rd\_GG\_vfy\_ai.lfs  rd\_GG\_vfy.lfs | rd\_GG\_ggg.lfs  rd\_GG\_ggg\_rg.lfs rd\_GG\_vfy\_ai.lfs  rd\_GG\_vfy.lfs |

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| --- | --- |
| **Before PDH** | **After PDH** |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-11%2016%3A23%3A2.png?version=1&modificationDate=1554970983000&api=v2  2019Q1.1 – Incorrect SubBuildingFloor returned. | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-11%2016%3A23%3A21.png?version=1&modificationDate=1554971002000&api=v2  2019Q2.0 – Correct SubBuildingFloor returned. |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-11%2016%3A26%3A35.png?version=1&modificationDate=1554971196000&api=v2  2019Q1.1 – Incorrect parsing of Building and Thoroughfare. | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-11%2016%3A26%3A45.png?version=1&modificationDate=1554971205000&api=v2  2019Q2.0 – Correct parsing of Building and Thoroughfare. |

Isle of Man

|  |  |
| --- | --- |
| **Country Information** | **Description** |
| ISO 2 | IM |
| ISO 3 | IMN |
| Address Format | Organization  PostBox  SubBuilding SubBuildingFloor Building  Premise Thoroughfare  DoubleDependentLocality  DependentLocality  Locality  PostalCode |
| PDH | Yes (2019Q2.0) |
| New Source | No |

|  |  |  |
| --- | --- | --- |
| **Files Used** | **Pre-PDH** | **Post-PDH** |
| Knowledge Base Files | Country.lfs  Context.lfs  Format.lfs | Country.lfs  Context.lfs  Format.lfs |
| Reference Data | rd\_IM\_geo.lfs  rd\_IM\_geo\_rg.lfs rd\_IM\_vfy\_ai.lfs  rd\_IM\_vfy.lfs | rd\_IM\_ggg.lfs rd\_IM\_ggg\_rg.lfs  rd\_IM\_vfy\_ai.lfs  rd\_IM\_vfy.lfs |

|  |  |
| --- | --- |
| **Pre-PDH** | **Post-PDH** |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-11%2016%3A29%3A52.png?version=1&modificationDate=1554971393000&api=v2  2019Q1.1 – Incorrect parsing of Organization, Premise and Thoroughfare. | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-11%2016%3A30%3A6.png?version=1&modificationDate=1554971407000&api=v2  2019Q2.0 – Correct parsing of Organization, Premise and Thoroughfare. |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-11%2016%3A30%3A19.png?version=1&modificationDate=1554971420000&api=v2  2019Q1.1 – Both SubBuildingFloor and SubBuilding parsed into single SubBuilding field. | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-11%2016%3A32%3A38.png?version=1&modificationDate=1554971559000&api=v2  2019Q2.0 – SubBuildingFloor and SubBuilding parsed to two separate fields, V5 returned. |

Jersey

|  |  |
| --- | --- |
| **Country Information** | **Description** |
| ISO 2 | JE |
| ISO 3 | JEY |
| Address Format | Organization  PostBox  SubBuilding Building  Premise DependentThoroughfare  Thoroughfare  DoubleDependentLocality  DependentLocality  Locality  PostalCode |
| PDH | Yes (2019Q2.0) |
| New Source | No |

|  |  |  |
| --- | --- | --- |
| **Files Used** | **Pre-PDH** | **Post-PDH** |
| Knowledge Base Files | Country.lfs  Context.lfs  Format.lfs | Country.lfs  Context.lfs  Format.lfs |
| Reference Data | rd\_JE\_geo.lfs  rd\_JE\_geo\_rg.lfs  rd\_JE\_vfy\_ai.lfs  rd\_JE\_vfy.lfs | rd\_JE\_ggg.lfs  rd\_JE\_ggg\_rg.lfs  rd\_JE\_vfy\_ai.lfs  rd\_JE\_vfy.lfs |

| **Pre-PDH** | **Post-PDH** |
| --- | --- |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-9%2015%3A57%3A52.png?version=1&modificationDate=1554796276000&api=v2  2019Q1.1 - SubBuildingFloor parsed to SubBuilding field and identified. | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-9%2015%3A57%3A1.png?version=1&modificationDate=1554796225000&api=v2  2019Q2.0 - SubBuildingFloor parsed to SubBuildingFloor field and verified no change. The format of SubBuildingFloor is corrected. |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-9%2016%3A33%3A51.png?version=1&modificationDate=1554798434000&api=v2  2019Q1.1 - Both SubBuilding and SubBuilding Floor parsed into single SubBuilding field. | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-9%2016%3A34%3A1.png?version=1&modificationDate=1554798445000&api=v2  2019Q2.0 - SubBuilding and SubBuilding Floor parsed to two separate fields, V5 returned. |

Korea

|  |  |
| --- | --- |
| **Country Information** | **Description** |
| ISO 2 | KR |
| ISO 3 | KOR |
| Address Format (Latin) | Organization PostBox  Building SubBuilding  Premise DependentThoroughfare Thoroughfare  DoubleDependentLocality DependentLocality  Locality  AdministrativeArea  PostalCode |
| Address Format (Native) | PostalCode AdministrativeArea  Locality Thoroughfare DependentThoroughfare  Premise  SubBuilding  (DependentLocality Building) Postbox  Organization |
| PDH | Yes (2019Q2.0) |
| New Source | No |

|  |  |  |
| --- | --- | --- |
| **Files Used:** | **Pre-PDH** | **Post-PDH** |
| Knowledge Base Files | Country.lfs Context.lfs Format.lfs | Country.lfs Context.lfs Format.lfs |
| Reference Data | rd\_KR\_geo.lfs  rd\_KR\_vfy\_ai.lfs  rd\_KR\_vfy\_f.lfs  rd\_KR\_vfy.lfs  rd\_KR\_vfy\_r.lfs | rd\_KR\_ggg.lfs  rd\_KR\_ggg\_r1.lfs  rd\_KR\_ggg\_rg.lfs  rd\_KR\_ggg\_r.lfs  rd\_KR\_vfy\_ai.lfs  rd\_KR\_vfy.lfs |

| **Pre-PDH** | **Post-PDH** |
| --- | --- |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-5%2012%3A34%3A33.png?version=1&modificationDate=1554438481000&api=v2  2019Q1.0 - DependentLocality parsed to Building field and duplicate DependentLocality appeared in output address. | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-5%2012%3A34%3A41.png?version=1&modificationDate=1554438489000&api=v2  2019Q2.0 - DependentLocality parsed correctly and duplicate no longer appear in output address. |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-5%2012%3A29%3A44.png?version=1&modificationDate=1554438192000&api=v2  2019Q1.0 - Old postcode is outputted, locality name in the incorrect order (-si, followed by -gu) | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-5%2012%3A30%3A23.png?version=1&modificationDate=1554438230000&api=v2  2019Q2.0 - Input old postcode is verified alias change and output new postcode, locality name in correct order (-gu, followed by -si) |

Lithuania

|  |  |
| --- | --- |
| **Country Information** | **Description** |
| ISO 2 | LT |
| ISO 3 | LTU |
| Address Format  (Not in centre of municipality) | Organization  PostBox  Building  Thoroughfare Premise-SubBuilding  DependentLocality  Locality  PostalCode SubAdministrativeArea |
| Address Format  (In centre of municipality) | Organization  PostBox  Building  Thoroughfare Premise-SubBuilding  DependentLocality  PostalCode Locality |
| PDH | Yes (2019Q2.0) |
| New Source | No |

|  |  |  |
| --- | --- | --- |
| **Files Used** | **Pre-PDH** | **Post-PDH** |
| Knowledge Base Files | Country.lfs  Context.lfs  Format.lfs | Country.lfs  Context.lfs  Format.lfs |
| Reference Data | rd\_LT.lfs  rd\_LT\_ai.lfs  rd\_LT\_rg.lfs  rd\_LT\_geop.lfs  rd\_LT\_geop\_rg.lfs | rd\_LT\_vfy.lfs  rd\_LT\_vfy\_ai.lfs  rd\_LT\_ggg.lfs  rd\_LT\_ggg\_rg.lfs |

| **Pre-PDH** | **Post-PDH** |
| --- | --- |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-5%2016%3A24%3A26.png?version=1&modificationDate=1554452680000&api=v2  2019Q1.0 - Before data realignment and format changes, Locality is returned instead of SubAdministrativeArea in the address output. | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-5%2016%3A26%3A27.png?version=1&modificationDate=1554452802000&api=v2  2019Q2.0 - Changes in alignment and address format. SubAdministrativeArea will be outputted in the address format except for Vilnius city. 'LT-' is placed before the postal codes in new address format. |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-5%2016%3A46%3A43.png?version=1&modificationDate=1554454018000&api=v2  2019Q1.0 - Part of thoroughfare name incorrectly parsed into premise field. | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-5%2016%3A46%3A0.png?version=1&modificationDate=1554453974000&api=v2  2019Q2.0 - Thoroughfare name is parsed and verified correctly. |

Malaysia

|  |  |
| --- | --- |
| **Country Information** | **Description** |
| ISO 2 | MY |
| ISO 3 | MYS |
| Address Format | Organization  PostBox  SubBuilding Building  Premise Thoroughfare  DependentThoroughfare  DoubleDependentLocality  DependentLocality  PostalCode Locality AdministrativeArea |
| PDH | Yes (2019Q2.0) |
| New Source | No |

|  |  |  |
| --- | --- | --- |
| **Files Used** | **Pre-PDH** | **Post-PDH** |
| Knowledge Base Files | Country.lfs  Context.lfs  Format.lfs | Country.lfs  Context.lfs  Format.lfs |
| Reference Data | rd\_MY.lfs  rd\_MY\_ai.lfs  rd\_MY\_rg.lfs  rd\_MY\_geop.lfs  rd\_MY\_geop\_rg.lfs | rd\_MY\_vfy.lfs  rd\_MY\_vfy\_ai.lfs  rd\_MY\_ggg.lfs  rd\_MY\_ggg\_rg.lfs |

| **Pre-PDH** | **Post-PDH** |
| --- | --- |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-5%2014%3A17%3A34.png?version=1&modificationDate=1554445068000&api=v2  2019Q1.0 - Incorrect data alignment, Ipoh is in DependentLocality level. | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-5%2014%3A16%3A12.png?version=1&modificationDate=1554444988000&api=v2  2019Q2.0 - After data realignment, Ipoh is in Locality level. |

Peru

|  |  |
| --- | --- |
| **Country Information** | **Description** |
| ISO 2 | PE |
| ISO 3 | PER |
| Address Format | Organization  PostBox  Thoroughfare Premise  SubBuilding Building  DependentLocality  Locality PostalCode  AdministrativeArea |
| PDH | Yes (2019Q2.0) |
| New Source | No |

|  |  |  |
| --- | --- | --- |
| **Files Used** | **Pre-PDH** | **Post-PDH** |
| Knowledge Base Files | Country.lfs  Context.lfs Format.lfs | Country.lfs  Context.lfs  Format.lfs |
| Reference Data | rd\_PE.lfs  rd\_PE\_ai.lfs  rd\_PE\_rg.lfs | rd\_PE\_vfy.lfs  rd\_PE\_vfy\_ai.lfs  rd\_PE\_ggg.lfs  rd\_PE\_ggg\_rg.lfs |

| **Pre-PDH** | **Post-PDH** |
| --- | --- |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-5%2014%3A47%3A54.png?version=1&modificationDate=1554446889000&api=v2  2019Q1.0 - Old postal code (Lima 21) is returned in Postal code field. | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-5%2014%3A48%3A43.png?version=1&modificationDate=1554446938000&api=v2  2019Q2.0 - Lima 21 is old postal code for Pueblo Libre district, will be parsed and verified as Locality. The new 5-digits postal code will be added since Peru had started to implement new postal code system. |

Phillipines

|  |  |
| --- | --- |
| **Country Information** | **Description** |
| ISO 2 | PH |
| ISO 3 | PHL |
| Address Format | Organization  PostBox  SubBuilding Building  Premise Thoroughfare  DependentThoroughfare  DoubleDependentLocality  DependentLocality  Locality  PostalCode AdministrativeArea |
| PDH | Yes (2019Q2.0) |
| New Source | No |

|  |  |  |
| --- | --- | --- |
| **Files Used** | **Pre-PDH** | **Post-PDH** |
| Knowledge Base Files | Country.lfs  Context.lfs Format.lfs | Country.lfs  Context.lfs  Format.lfs |
| Reference Data | rd\_PH.lfs rd\_PH\_rg.lfs  rd\_PH\_ai.lfs | rd\_PH\_ggg.lfs  rd\_PH\_ggg\_rg.lfs  rd\_PH\_vfy\_ai.lfs  rd\_PH\_vfy.lfs |

| **Pre-PDH** | **Post-PDH** |
| --- | --- |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-5%2012%3A46%3A19.png?version=1&modificationDate=1554439187000&api=v2  2019Q1.0 - Before data realignment, Makati city is in the Administrative Area level. | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-5%2012%3A46%3A51.png?version=1&modificationDate=1554439219000&api=v2  2019Q2.0 - After data realignment, 'Metro Manila' and 'Makati' can be parsed and verified correctly. |

Portugal

|  |  |
| --- | --- |
| **Country Information** | **Description** |
| ISO 2 | PT |
| ISO 3 | PRT |
| Address Format | Organization  PostBox  Thoroughfare Premise Building SubBuilding  DependentThoroughfare  DoubleDependentLocality  DependentLocality  PostalCode Locality |
| PDH | Yes (2019Q2.0) |
| New Source | No |

|  |  |  |
| --- | --- | --- |
| **Files Used** | **Pre-PDH** | **Post-PDH** |
| Knowledge Base Files | Country.lfs  Context.lfs  Format.lfs | Country.lfs  Context.lfs  Format.lfs |
| Reference Data | rd\_PT.lfs  rd\_PT\_ai.lfs  rd\_PT\_geop.lfs  rd\_PT\_geop\_rg.lfs  rd\_PT\_rg.lfs | rd\_PT\_ggg.lfs  rd\_PT\_ggg\_rg.lfs  rd\_PT\_vfy\_ai.lfs  rd\_PT\_vfy.lfs |

| **Pre-PDH** | **Post-PDH** |
| --- | --- |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-9%2017%3A5%3A19.png?version=1&modificationDate=1554800720000&api=v2  2019Q1.1 - Before data realignment, Alenquer (region) incorrectly verified as Locality. | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-9%2017%3A15%3A5.png?version=1&modificationDate=1554801306000&api=v2  2019Q2.0 - After data realignment, Alenquer (region) verified as SubAdministrativeArea, whereas Locality correctly returned. |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-9%2017%3A40%3A30.png?version=1&modificationDate=1554802831000&api=v2  2019Q1.1 - SubBuilding element incorrectly parsed | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-9%2017%3A41%3A13.png?version=1&modificationDate=1554802874000&api=v2  2019Q2.0 - SubBuilding element correctly parsed |

Spain

|  |  |
| --- | --- |
| **Country Information** | **Description** |
| ISO 2 | ES |
| ISO 3 | ESP |
| Address Format | Organization  Thoroughfare Premise Building SubBuilding  DependentThoroughfare  PostBox  DependentLocality  PostalCode Locality AdministrativeArea |
| PDH | Yes (2019Q2.0) |
| New Source | No |

|  |  |  |
| --- | --- | --- |
| **Files Used** | **Pre-PDH** | **Post-PDH** |
| Knowledge Base Files | Country.lfs  Context.lfs  Format.lfs | Country.lfs  Context.lfs  Format.lfs |
| Reference Data | rd\_ES\_geop.lfs  rd\_ES\_geop\_r.lfs  rd\_ES\_geop\_rg.lfs  rd\_ES\_r.lfs  rd\_ES\_rg.lfs  rd\_ES\_ai.lfs  rd\_ES.lfs | rd\_ES\_ggg.lfs  rd\_ES\_ggg\_r1.lfs  rd\_ES\_ggg\_rg.lfs  rd\_ES\_ggg\_r.lfs  rd\_ES\_vfy\_ai.lfs  rd\_ES\_vfy.lfs |

| **Pre-PDH** | **Post-PDH** |
| --- | --- |
| **http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-4%2016%3A45%3A9.png?version=1&modificationDate=1554367510000&api=v2**  2019Q1.0 - Thoroughfare name is parsed as Thoroughfare Trailing Type | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-4%2016%3A45%3A47.png?version=1&modificationDate=1554367548000&api=v2  2019Q2.0 - Thoroughfare Leading Type is parsed correctly |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-5%2016%3A30%3A27.png?version=1&modificationDate=1554453028000&api=v2  2019Q1.0 – Inconsistent locality returned | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-5%2016%3A30%3A59.png?version=1&modificationDate=1554453060000&api=v2  2019Q2.0 – Correct locality returned as in Spanish Post |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-5%2016%3A31%3A30.png?version=1&modificationDate=1554453091000&api=v2  2019Q1.0 – SubAdministrativeArea is empty | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-5%2016%3A32%3A1.png?version=1&modificationDate=1554453122000&api=v2  2019Q2.0 – Geography information is added where SubAdministrativeArea is populated |

Uruguay

|  |  |
| --- | --- |
| **Country Information** | **Description** |
| ISO 2 | UY |
| ISO 3 | URY |
| Address Format | Organization  PostBox  Building SubBuilding  Thoroughfare Premise  DependentThoroughfare  DoubleDependentLocality  DependentLocality  PostalCode Locality |
| PDH | Yes (2019Q2.0) |
| New Source | No |

|  |  |  |
| --- | --- | --- |
| **Files Used** | **Pre-PDH** | **Post-PDH** |
| Knowledge Base Files | Country.lfs  Context.lfs  Format.lfs | Country.lfs  Context.lfs  Format.lfs |
| Reference Data | rd\_UY\_ggg.lfs  rd\_UY\_ggg\_rg.lfs  rd\_UY\_vfy\_ai.lfs  rd\_UY\_vfy.lfs | rd\_UY\_ggg.lfs  rd\_UY\_ggg\_rg.lfs  rd\_UY\_vfy\_ai.lfs  rd\_UY\_vfy.lfs |

| **Pre-PDH** | **Post-PDH** |
| --- | --- |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-10%2015%3A50%3A37.png?version=1&modificationDate=1554882240000&api=v2  2019Q1.0 - Input locality parsed incorrectly to Administrative Area field. | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-10%2015%3A50%3A54.png?version=1&modificationDate=1554882257000&api=v2  2019Q2.0 - Input locality parsed correctly to locality field and verified alias change. |

Countries with Format Changes

Please note, the following countries have **Address Format** changes.

Canada

|  |  |
| --- | --- |
| **Country Information** | **Description** |
| ISO2 | CA |
| ISO3 | CAN |

**Address Format Change**

| **Before 2019Q2.0** | **After 2019Q2.0** |
| --- | --- |
| Building  SubBuilding  PostBox  DeliveryInstallationType DeliveryInstallationQualifierName  Locality AdministrativeArea  PostalCode | Building  SubBuilding  PostBox DeliveryInstallationType DeliveryInstallationQualifierName  Locality AdministrativeArea  PostalCode |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-12%209%3A44%3A21.png?version=1&modificationDate=1555033482000&api=v2  2019Q1.1 - PO Box is placed above Delivery Installation. | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-12%209%3A43%3A49.png?version=1&modificationDate=1555033450000&api=v2  2019Q2.0 - PO Box is placed same line with Delivery Installation. |

New Zealand

|  |  |
| --- | --- |
| **Country Information** | **Description** |
| ISO2 | NZ |
| ISO3 | NZL |

**Address Format Change**

| **Pre 2019Q2.0** | **Post 2019Q2.0** |
| --- | --- |
| Organization  PostBox  BoxBagLobbyName  SubBuilding Building  Premise Thoroughfare  DependentThoroughfare  Locality PostalCode | Department  Organization  SubBuilding  Building  PostBox  BoxBagLobbyName  Locality PostalCode |
| http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-12%2010%3A0%3A14.png?version=1&modificationDate=1555034015000&api=v2  2019Q1.0 - Department is not in the address format. | http://confluence.rc.loqate.com/download/attachments/13926520/image2019-4-12%2010%3A0%3A26.png?version=1&modificationDate=1555034027000&api=v2  2019Q2.0 - Department is added. Postbox and BoxBagLobbyName is moved to the line after Building |

Knowledge Base & Reference Data Updates

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

* Reference Data = 182 countries
* Lexicons = 16 countries
* Context Rules = 7 countries

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 |  |  |  |
| ANGOLA | AO |  |  | X |
| ANGUILLA | AI |  |  | X |
| ANTARCTICA | AQ |  |  |  |
| ANTIGUA AND BARBUDA | AG |  |  | X |
| ARGENTINA | AR |  |  |  |
| ARMENIA | AM |  |  | X |
| ARUBA | AW |  |  | X |
| AUSTRALIA | AU |  | X | X |
| AUSTRIA | AT |  |  |  |
| AZERBAIJAN | AZ |  |  | X |
| BAHAMAS | BS |  |  | X |
| BAHRAIN | BH |  |  |  |
| BANGLADESH | BD |  |  | X |
| BARBADOS | BB |  |  | X |
| BELARUS | BY |  |  |  |
| BELGIUM | BE |  |  | X |
| BELIZE | BZ |  |  | X |
| BENIN | BJ |  |  | X |
| BERMUDA | BM |  |  | X |
| BHUTAN | BT |  |  | X |
| BOLIVIA, PLURINATIONAL STATE OF | BO |  |  | X |
| BONAIRE, SINT EUSTATIUS AND SABA | BQ |  |  |  |
| BOSNIA AND HERZEGOVINA | BA |  |  | X |
| BOTSWANA | BW |  |  | X |
| Country Name | ISO Code | Context Rules | Lexicons | Reference Data |
| BOUVET ISLAND | BV |  |  |  |
| BRAZIL | BR |  |  |  |
| BRITISH INDIAN OCEAN TERRITORY | IO |  |  | X |
| BRUNEI DARUSSALAM | BN |  |  | X |
| BULGARIA | BG |  |  | X |
| BURKINA FASO | BF |  |  | X |
| BURUNDI | BI |  |  | X |
| CAMBODIA | KH |  |  |  |
| CAMEROON | CM |  |  | X |
| CANADA | CA | X | X | 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 |  |  |  |
| 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 |  |  | X |
| CUBA | CU |  |  | X |
| CURAÇAO | CW |  |  |  |
| CYPRUS | CY |  |  | X |
| CZECH REPUBLIC | CZ |  | X | X |
| DENMARK | DK |  |  |  |
| DJIBOUTI | DJ |  |  | X |
| DOMINICA | DM |  |  | X |
| DOMINICAN REPUBLIC | DO |  |  |  |
| ECUADOR | EC |  |  |  |
| EGYPT | EG |  |  |  |
| Country Name | ISO Code | Context Rules | Lexicons | Reference Data |
| EL SALVADOR | SV |  |  |  |
| EQUATORIAL GUINEA | GQ |  |  | X |
| ERITREA | ER |  |  | X |
| ESTONIA | EE |  |  | X |
| ETHIOPIA | ET |  |  | X |
| FALKLAND ISLANDS (MALVINAS) | FK |  |  | X |
| FAROE ISLANDS | FO |  |  | X |
| FIJI | FJ |  |  | X |
| FINLAND | FI |  |  |  |
| FRANCE | FR |  | 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 |  |  |  |
| GREENLAND | GL |  |  | X |
| GRENADA | GD |  |  | X |
| GUADELOUPE | GP |  |  | X |
| GUAM | GU |  |  | X |
| GUATEMALA | GT |  |  |  |
| GUERNSEY | GG |  | X | 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 |  |  |  |
| HUNGARY | HU |  |  | X |
| Country Name | ISO Code | Context Rules | Lexicons | Reference Data |
| ICELAND | IS |  |  | X |
| INDIA | IN |  |  |  |
| INDONESIA | ID |  |  |  |
| IRAN, ISLAMIC REPUBLIC OF | IR |  |  | X |
| IRAQ | IQ |  |  | X |
| IRELAND | IE |  |  |  |
| ISLE OF MAN | IM |  | X | X |
| ISRAEL | IL |  |  |  |
| ITALY | IT |  |  | X |
| JAMAICA | JM |  |  |  |
| JAPAN | JP |  |  |  |
| JERSEY | JE |  | X | X |
| JORDAN | JO |  |  | X |
| KAZAKHSTAN | KZ |  |  | X |
| KENYA | KE |  |  | X |
| KIRIBATI | KI |  |  | X |
| KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF | KP |  |  | X |
| KOREA, REPUBLIC OF | KR | X | X | X |
| 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 | X | PDH |
| LUXEMBOURG | LU |  |  | X |
| MACAO | MO |  |  |  |
| MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF | MK |  |  | X |
| MADAGASCAR | MG |  |  | X |
| MALAWI | MW |  |  | X |
| MALAYSIA | MY | X | X | PDH |
| MALDIVES | MV |  |  | X |
| MALI | ML |  |  | X |
| Country Name | ISO Code | Context Rules | Lexicons | Reference Data |
| MALTA | MT |  |  | X |
| MARSHALL ISLANDS | MH |  |  | X |
| MARTINIQUE | MQ |  |  | X |
| MAURITANIA | MR |  |  | X |
| MAURITIUS | MU |  |  | X |
| MAYOTTE | YT |  |  |  |
| MEXICO | MX |  |  |  |
| 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 |
| MOZAMBIQUE | MZ |  |  |  |
| MYANMAR | MM |  |  | X |
| NAMIBIA | NA |  |  | X |
| NAURU | NR |  |  | X |
| NEPAL | NP |  |  | X |
| NETHERLANDS | NL |  |  |  |
| NEW CALEDONIA | NC |  |  | X |
| NEW ZEALAND | NZ |  | X | X |
| NICARAGUA | NI |  |  | PDH |
| 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 |  |  |  |
| PANAMA | PA |  |  |  |
| PAPUA NEW GUINEA | PG |  |  | X |
| PARAGUAY | PY |  |  | PDH |
| PERU | PE | X | X | PDH |
| Country Name | ISO Code | Context Rules | Lexicons | Reference Data |
| PHILIPPINES | PH | X | X | PDH |
| PITCAIRN | PN |  |  | X |
| POLAND | PL |  |  |  |
| PORTUGAL | PT |  | X | PDH |
| PUERTO RICO | PR |  |  | X |
| QATAR | QA |  |  |  |
| RÉUNION | RE |  |  | X |
| ROMANIA | RO |  |  | X |
| RUSSIAN FEDERATION | RU |  |  |  |
| 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 |  |  | X |
| SENEGAL | SN |  |  | 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 |  |  |  |
| SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS | GS |  |  | X |
| SOUTH SUDAN, REPUBLIC OF | SS |  |  | X |
| SPAIN | ES | X | X | PDH |
| Country Name | ISO Code | Context Rules | Lexicons | Reference Data |
| SRI LANKA | LK |  |  | X |
| SUDAN | SD |  |  | X |
| SURINAME | SR |  |  | X |
| SVALBARD AND JAN MAYEN | SJ |  |  | X |
| SWAZILAND | SZ |  |  | X |
| SWEDEN | SE |  |  | X |
| SWITZERLAND | CH |  |  |  |
| SYRIAN ARAB REPUBLIC | SY |  |  | X |
| TAIWAN, PROVINCE OF CHINA | TW |  |  |  |
| TAJIKISTAN | TJ |  |  | X |
| TANZANIA, UNITED REPUBLIC OF | TZ |  |  | X |
| THAILAND | TH |  |  |  |
| 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 |  |  | PDH |
| UKRAINE | UA |  |  | X |
| UNITED ARAB EMIRATES | AE |  |  | X |
| UNITED KINGDOM | GB |  |  | X |
| UNITED STATES | US |  |  | X |
| UNITED STATES MINOR OUTLYING ISLANDS | UM |  |  | X |
| URUGUAY | UY |  | X | 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 |
| Country Name | ISO Code | Context Rules | Lexicons | Reference Data |
| WESTERN SAHARA | EH |  |  |  |
| YEMEN | YE |  |  |  |
| ZAMBIA | ZM |  |  |  |
| ZIMBABWE | ZW |  |  |  |

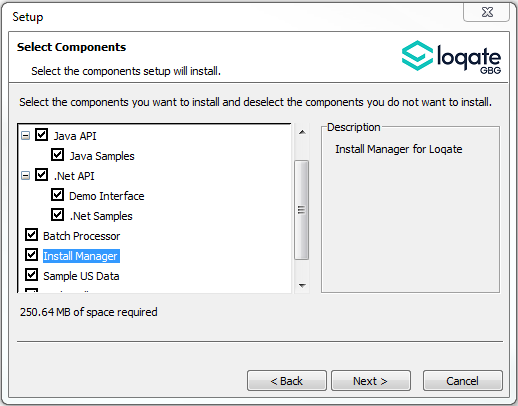
Installation Instructions

The 2019Q2.0 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 2019Q2.0/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 2019Q2.0 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 2019Q2.0/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 2019Q2.0 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/.