TIBCO Omni-Insurance™

Installation and Configuration for Loqate Address Validation Guide

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Support for Address Validation

TIBCO Omni-Insurance™ provides support for address validation operations. These address validation operations require the installation of the Loqate component. Loqate must be installed with an associated license key. You can obtain a license key from iWay Customer Support and download the files required to install Loqate from the Loqate website at:

https://www.loqate.com/en-us/

In this chapter:

❏   Installing Loqate on Windows

❏   Installing Loqate on Linux

Installing Loqate on Windows

Loqate is used to enable address validation operations. Loqate must be installed on the system where Omni-Insurance™ is currently running.

Procedure: **How to Install Loqate on Windows**

You must stop the Omni-Gen Server and all Omni-Gen services before installing Loqate. To install Loqate on Windows platforms:

1.   Create the following directory on your file system:

    `C:\loqate`

2.   Download the files required to install Loqate from the Loqate website (*https://www.loqate.com/en-us/*).

3.   Right-click the *setup_64.exe* installation file for Loqate, and select *Run as Administrator* from the context menu.

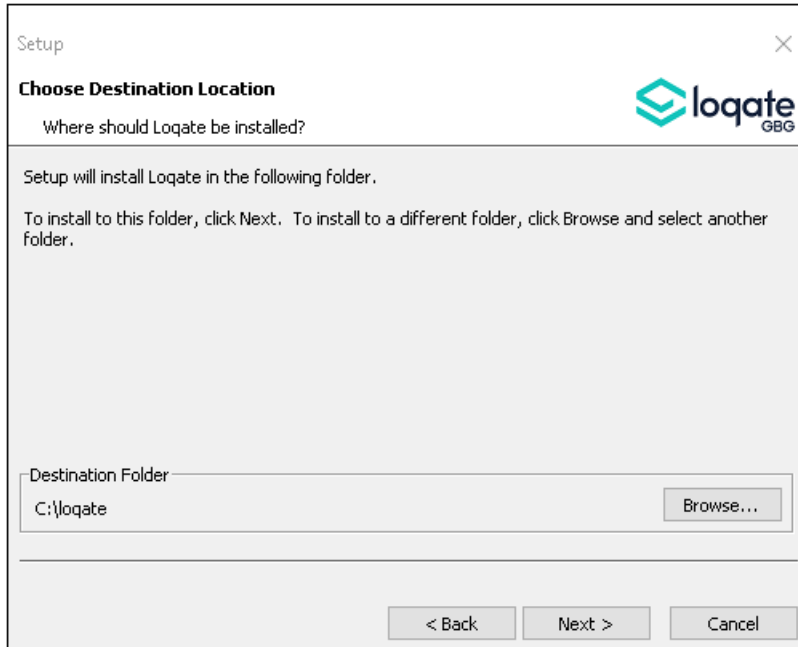The Welcome to the Loqate Install Wizard dialog box opens, as shown in the following image.
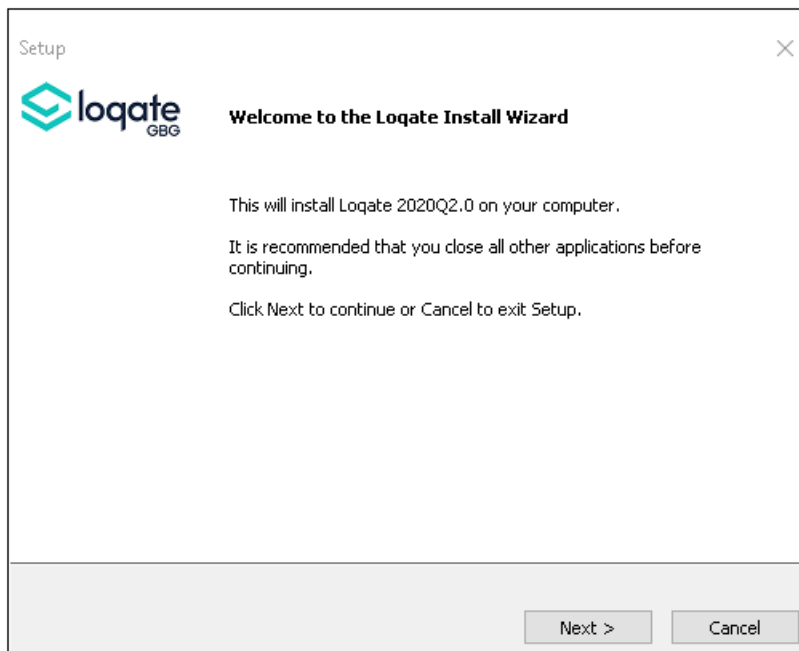
4. Click *Next*.

The Select Components dialog box opens, as shown in the following image.
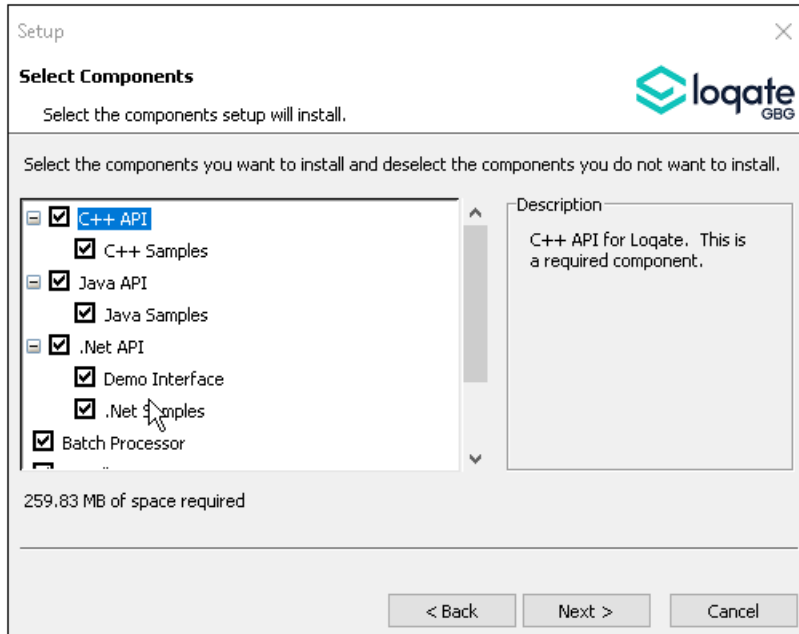
5. Accept all of the components that are selected by default for installation and then click *Next*.

The Choose Destination Location dialog box opens, as shown in the following image.

Note: The recommended installation location (destination folder) is C:\loqate. If you choose a different installation location, then you will have to manually update the Loqate step in each validation plan with your specific path.

6. Ensure that *C:\loqate* is specified as the destination folder and then click *Next*.

The Start Copying Files dialog box opens, as shown in the following image.
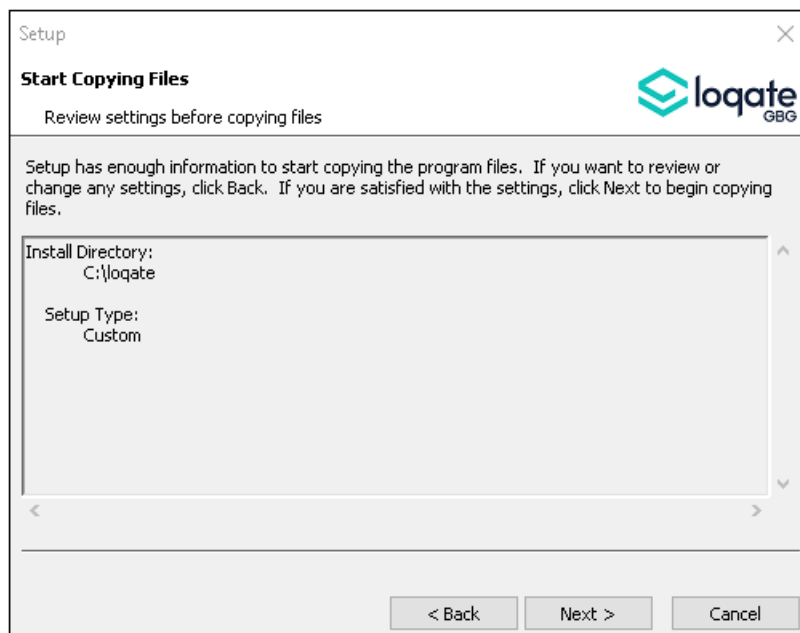
7. Click *Next*.

The Installing dialog box opens and displays a progress bar for the Loqate installation, as shown in the following image.
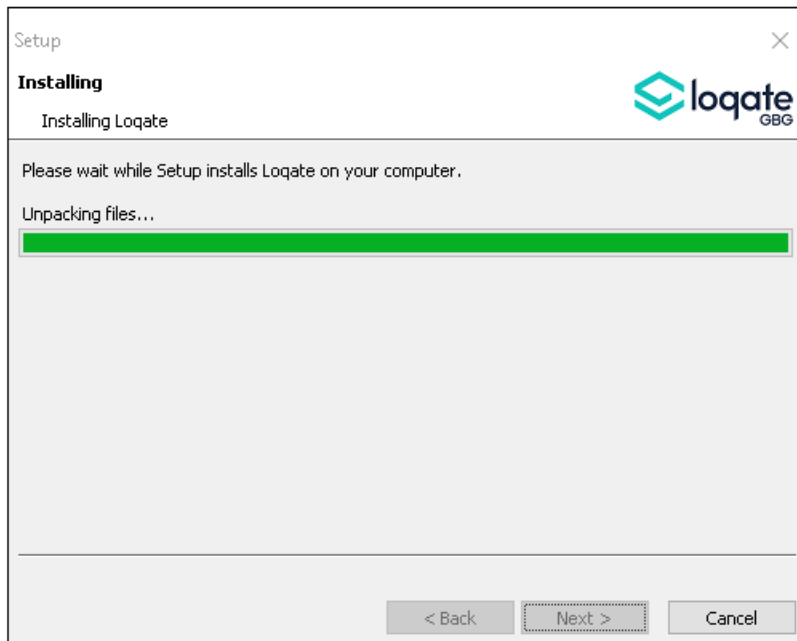
During the installation, the Data Installation dialog box opens, as shown in the following image.

8. Click *Next* to continue.

A Microsoft Visual C++ 2005 Redistributable (x64) pop-up dialog box may open, as shown in the following image. You can ignore this pop-up dialog box.
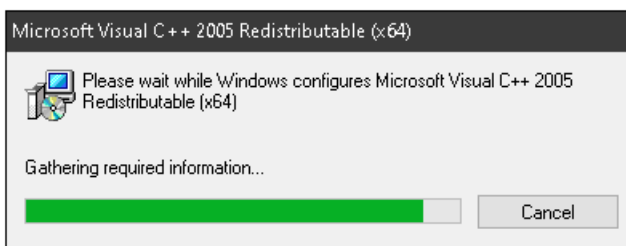
When the installation is complete the Loqate Install Wizard Complete dialog box opens, as shown in the following image.
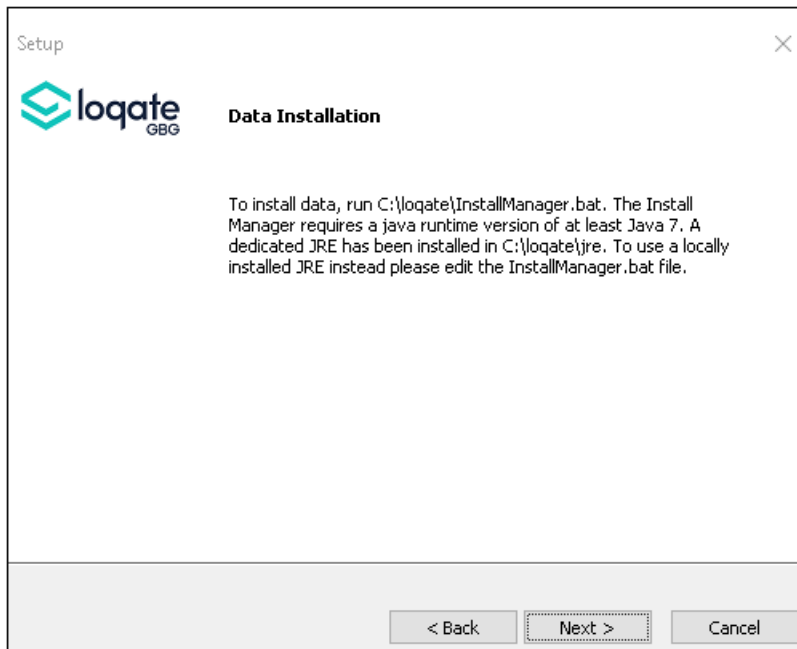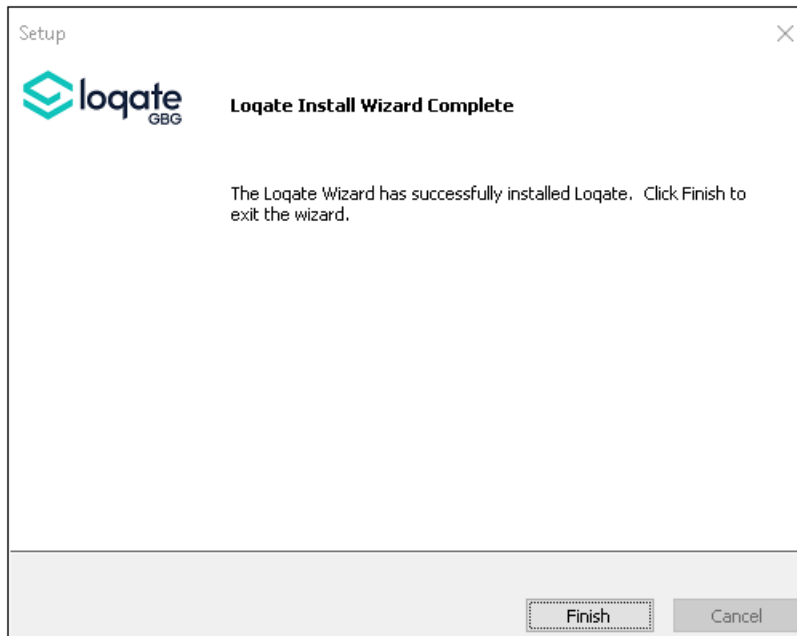

9. Click *Finish*.

   Verify that your system PATH environment variable has been updated to include the Loqate installation location (for example, *C:\loqate*).

   You are now ready to install Global Knowledge Repository data on your system.

10. On your file system, navigate to the Loqate installation directory. For example:

    `C:\loqate`

11. Double-click the *InstallManager.bat* file.

The Welcome to the Installation Manager dialog box opens, as shown in the following image.
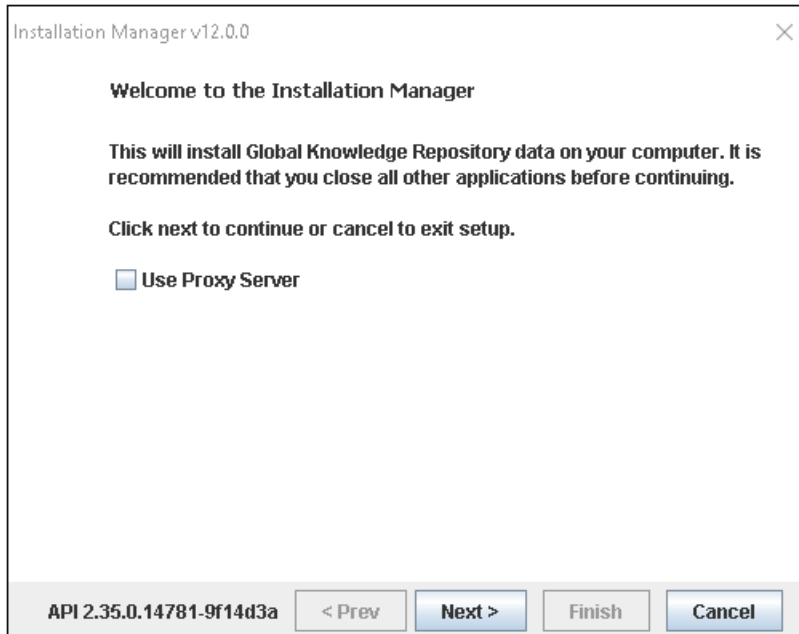
12. Click *Next*.

The Choose Data Installation Location dialog box opens, as shown in the following image.
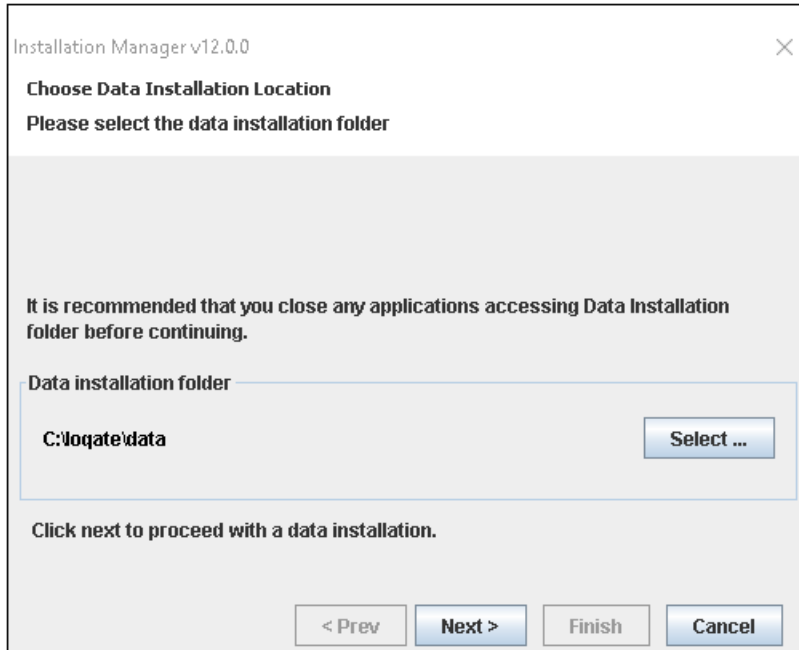
13. Click *Select*.

On the Select Data Install Folder dialog box, navigate to, and select, the following directory:

`C:\loqate\data`

14. Click *OK*.

You are returned to the Choose Data Installation Location dialog box.

15. Click *Next* to continue with the installation.

1. Support for Address Validation

The Enter License Information dialog box opens, as shown in the following image.

16. Type the Loqate license key, and then click *Next*.

The License Details dialog box opens, as shown in the following image.

Installation Manager v12.0.0	×

License Details

Please review the details of your license below.

Product	Expiry Date
Knowledge Base Common	2020-12-31
Worldwide Geocode Dataset	2020-12-31
Worldwide Verify Dataset(O)	2020-12-31
USA Verify Dataset CASS	2020-12-31
USA Enhance CENSUS Dataset	2020-12-31
CASS Library	2020-12-31
Worldwide Reverse Geocode Dataset	2020-12-31

< Prev	Next >	Finish	Cancel
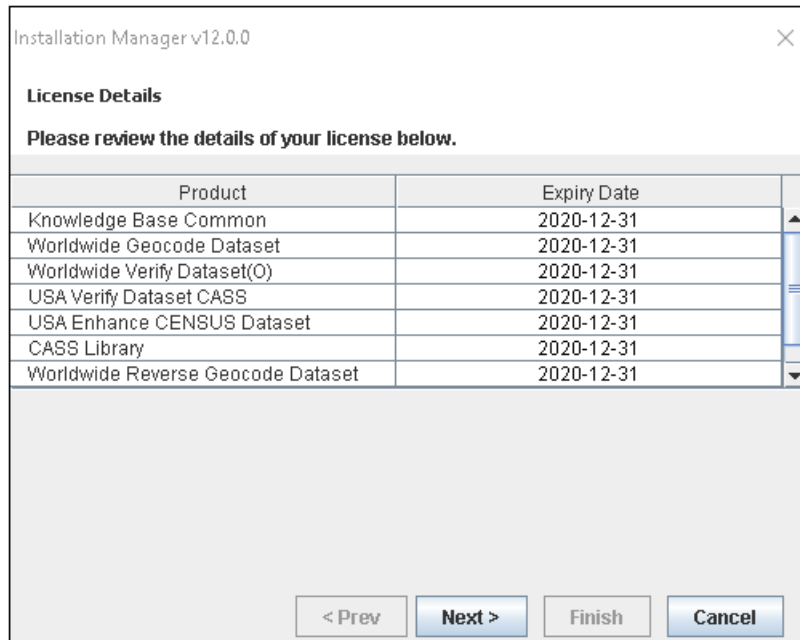
Note: The list of products that is displayed will vary depending on your license.

17. Confirm the license details and then click *Next*.

The Data Pack Selection dialog box opens, as shown in the following image.


```
Installation Manager v12.0.0                                        ×

Data Pack Selection
Please select whether you wish to download or use local data packs

┌Download─────────────────────────────────────────────────────────
 ┌Select data pack download folder────────────────────────────────
    C:\loqate\download                              [  Select ...  ]


 ⦿ Download data packs

 ○ Use local data packs




                    [ < Prev ] [ Next > ] [ Finish ] [ Cancel ]
```
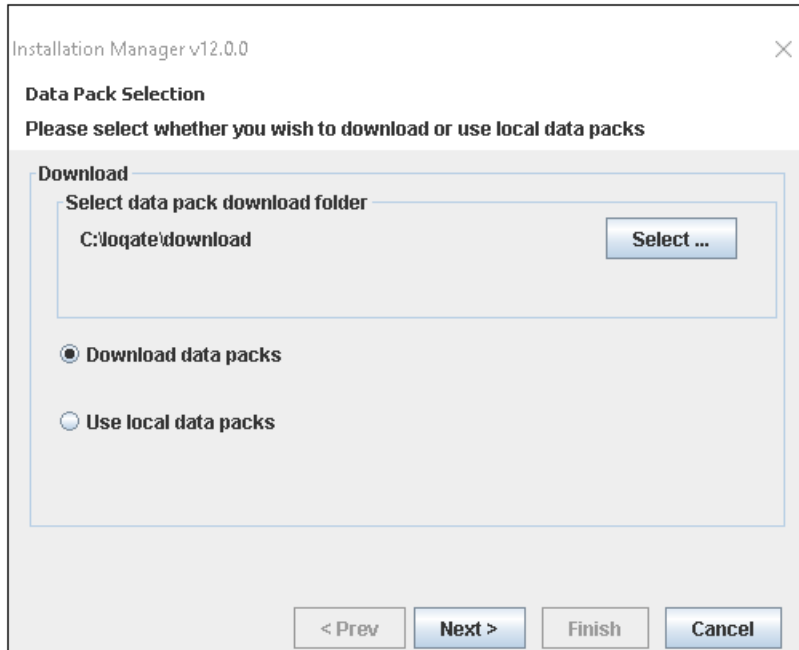
18. Click *Select*.

    Navigate to, and select, the location of the data pack download folder. For example:

    `C:\loqate\download`

19. Click *OK* to close the dialog box and then click *Next* on the Data Pack Selection dialog box to continue.

20. Deselect the *Select All* check box, as shown in the following image.

Installation Manager v12.0.0		✕
Data Pack Selection		
Select required data packs.		

Product	Release	Selected
Africa and Middle East Other Geocode Data...	2020-04-21	☐
Africa and Middle East Other Reverse Geoc...	2020-04-21	☐
Africa and Middle East Other Verify Dataset	2020-04-21	☐
Albania Geocode Dataset	2020-04-21	☐
Albania Reverse Geocode Dataset	2020-01-28	☐
Albania Verify Dataset	2020-04-21	☐
Algeria Geocode Dataset	2020-04-21	☐
Algeria Reverse Geocode Dataset	2020-01-28	☐
Algeria Verify Dataset	2020-04-21	☐
Angola Geocode Dataset	2020-02-27	☐
Angola Reverse Geocode Dataset	2020-02-27	☐

Required disk space
For Download: 0.0 KB
For Install: 0.0 KB

Available disk space: 289.7 GB   ☐ Select All

| < Prev | Next > | Finish | Cancel |

Note: The list of products that is displayed will vary depending on your license.

21. In the list of data packs, select only the data packs for which you are licensed. You must select Knowledge Base Common, as shown in the following image.
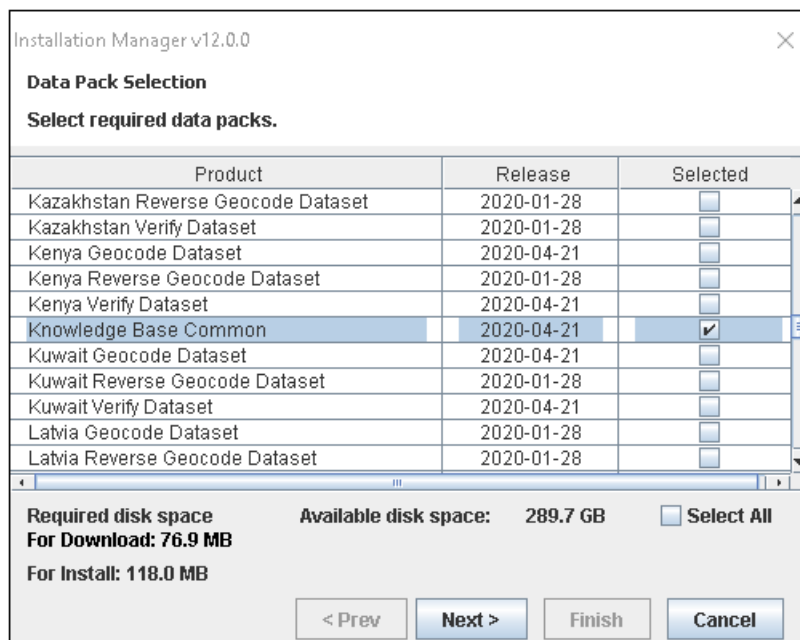
22. Click *Next* to continue.

23. Deselect all CASS library data packs, and then click *Next*, as shown in the following image.

The Install Options dialog box opens, as shown in the following image.

Installation Manager v12.0.0

Install Options

Selected data items will be installed in :
C:\loqate\data

Disk Space
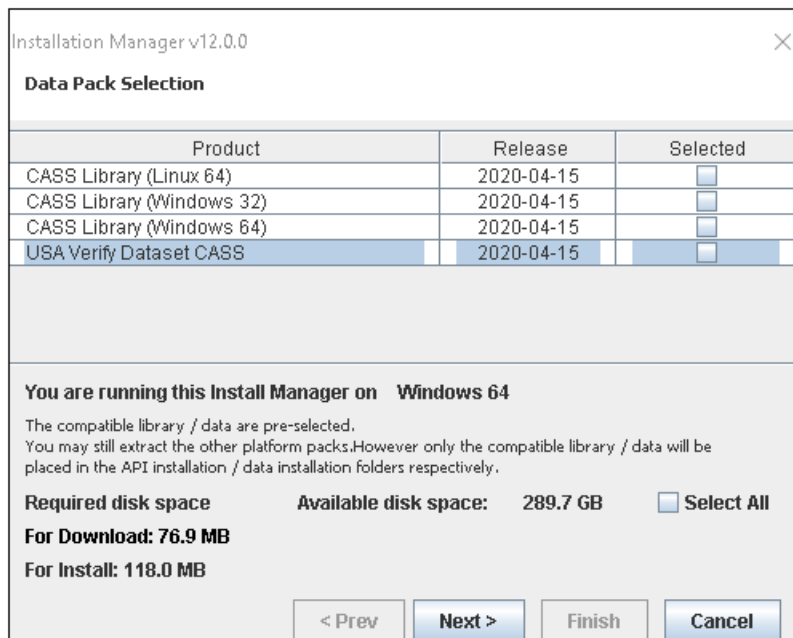Available : 289.6 GB   Required for Install : 118.0 MB

☐ Backup existing data packs

Existing data packs will be moved to :
C:\loqate\data\20-04-30_15-41

< Prev   Next >   Finish   Cancel
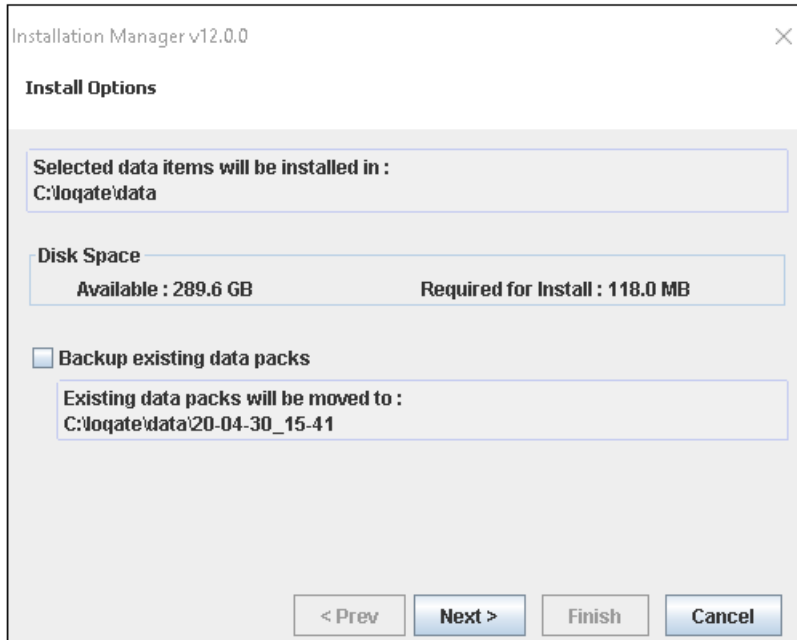
24. Click *Next*.

    The download proceeds and displays its progress.

25. Wait for the download to complete, which can take a few minutes, and then click *Next* to continue.

The Installation Manager Completed dialog box opens, as shown in the following image.

26. When the installation is complete, click *Finish*.

Installing Loqate on Linux

Loqate is used to enable address validation operations. Loqate must be installed on the system where Omni-Insurance is currently running.

Procedure: **How to Install Loqate on Linux**

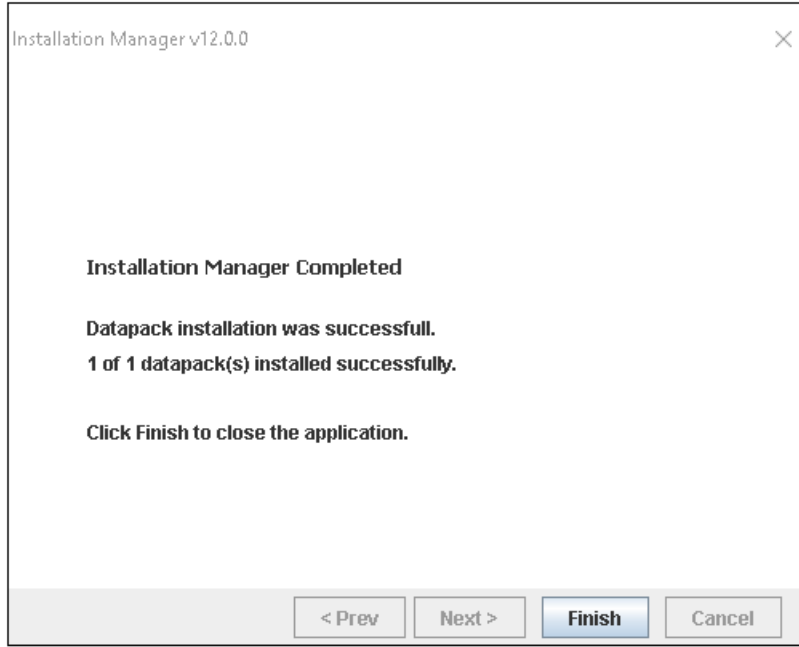To install Loqate on Linux platforms:

1. Navigate to the directory containing the installation file (*loqate_installer_x86_64-gcc7*), and execute the Loqate installer. For example:

   ```
   # ./loqate_installer_x86_64-gcc7

   This will install Loqate on your computer.  Continue? [n/Y] Y
   ```

2. Type *Y* and press *Enter*.

3. Type the location to install Loqate (for example, */software/loqate*), as shown below.

   ```
   Where do you want to install Loqate? [/opt/loqate] /software/loqate
   ```

A prompt appears, asking you to select the components to install, as shown below.

```
Please select the components to install. Items to install are marked
with an asterisk

* 1. Install Manager
* 2. Sample US Data
* 3. Java API
* 4. Node Collector
* 5. C++ API (required)
* 6. Batch Processor
* 7. Java Samples
* 8. Central Collector
* 9. C++ Samples
  10. Done

Select a component: 10
```

4. Type *10* to select all of the components and press *Enter*.

The Loqate installation starts and a notification appears when the installation is complete, as shown below.

```
Installing Loqate...
Installing C+
+...

Installing C++
Samples...

Installing
Java...

Installing Java
Samples...

Installing
Batch...

Installing Batch
Samples...

Installing
SAMPLEDATA_LIN...

Installing
IM_LINUX64...

Installing
NC_LINUX64...

Installing
CC_LINUX64...

To install data, cd /software/loqate then run ./InstallManager.sh. The
Install Manager requires a java runtime version of at least Java 7. A
dedicated JRE has been installed in /software/loqate/jre. To use a
locally installed JRE instead please edit the InstallManager.sh file.
Please note that you may need to change the permissions of both the
InstallManager.sh file and jre directories to allow your user to run
these applications.

Installation complete.
```

Procedure: How to Download and Install the Loqate Data Packs

To download and install the country data packs for Loqate:

1. Change your directory to */software/loqate*, as shown below.

    ```
    # cd /software/loqate/
    ```

2. Execute the *InstallManager.sh* executable file, as shown below.

```
# ./InstallManager.sh
Native library STLPort failed to load, ignore this if not using
solaris OS.
java.lang.UnsatisfiedLinkError: no stlport in java.library.path
Welcome to the Installation Manager - version 12.0.0
Running using local API version 2.35.0.14781-9f14d3a
```

A prompt appears, asking if your network communication passes through a proxy server, as shown below.

```
Does your network communication pass through a proxy server (y/n)? n
```

3. Type *n* and press *Enter*.

4. Type the location to install the data packs (for example, */software/loqate/data*), as shown below.

```
Please enter the path to the data installation folder
/software/loqate/data
Valid folder found. Proceeding with a data installation.
```

A prompt appears, asking you for a license key, as shown below.

```
Please select from below:
Enter 1 if you have a license key
Enter 2 if you have a license pack
Enter 3 to exit
1
```

5. Type *1* and press *Enter*.

6. Type the supplied license key and press *Enter*, as shown below.

```
Please enter the license key: <enter_your_license_key_here>

Contacting license server to validate the license key.
++++
Details of your current license
-------------------------------------------

-------------------------------------------------------
Product                          Expiry Date
-------------------------------------------------------
Knowledge Base Common            2020-12-31
Worldwide Geocode Dataset        2020-12-31
Worldwide Verify Dataset(O)      2020-12-31
USA Verify Dataset CASS          2020-12-31
USA Enhance CENSUS Dataset       2020-12-31
CASS Library                     2020-12-31
Worldwide Reverse Geocode Dataset 2020-12-31
UK Enhance DPS+UDPRN Dataset     2020-12-31
-------------------------------------------------------
```

A prompt appears, asking you to select how you want to download and install the data packs, as shown below.

```
Please select from below:
Enter 1 if you want to download the data packs but not install
Enter 2 if you want to download and install the data packs
Enter 3 if you want to install using your locally available data packs
Enter 4 to exit
2
```

7. Type *2* and press *Enter* to download and install the data packs.

8. Enter the location to store the downloaded data packs (for example, /software/loqate/download/), as shown below.

```
Please enter a valid download folder path
/software/loqate/download
Processing.
Fetching information from server about the available data packs.

Contacting license server for information on available updates.
+++
Done fetching information from server regarding available data packs.
-------------------------------------------------------
S.No  Product                          Date of Release
-------------------------------------------------------
1     Africa and Middle East Other Geocode Dataset 2020-04-21
2     Africa and Middle East Other Verify Dataset 2020-04-21
.....
.....
.....
212   Kenya Geocode Dataset            2020-04-21
213   Kenya Reverse Geocode Dataset    2020-01-28
214   Kenya Verify Dataset             2020-04-21
215   Knowledge Base Common            2020-04-21
216   Kuwait Geocode Dataset           2020-04-21
217   Kuwait Reverse Geocode Dataset   2020-01-28
218   Kuwait Verify Dataset            2020-04-21
.....
.....
.....
405   Turkey Geocode Dataset           2020-01-28
406   Turkey Reverse Geocode Dataset   2020-01-28
407   Turkey Verify Dataset            2020-01-28
408   UK Enhance DPS+UDPRN Dataset     2020-04-21
409   USA Enhance CENSUS Dataset       2019-10-11
410   USA Geocode Dataset              2020-04-21
411   USA Geocode1 Dataset             2020-04-21
412   USA Geocode2 Dataset             2020-04-21
413   USA Geocode3 Dataset             2020-04-21
414   USA Reverse Geocode Dataset      2020-01-28
415   USA Territories Geocode Dataset 2020-04-21
416   USA Territories Reverse Geocode Dataset 2020-04-21
417   USA Territories Verify Dataset 2020-04-21
418   USA Verify Dataset               2020-04-21
419   Uganda Geocode Dataset           2020-01-28
420   Uganda Reverse Geocode Dataset 2020-01-28
421   Uganda Verify Dataset            2020-01-28
.....
.....
.....
```

Note: The available data packs may vary based on your licensing.

9. Enter the corresponding number for each of the data packs for which you are licensed, and press *Enter* after each. You must select the Knowledge Base Common data pack.

10. When complete, type *Done* and press *Enter*, as shown below.

```
------------------------------------------------------
Enter : 1 to install the first Product, 2 to install the second Product
and so on
Enter : all if all products are to be installed
Enter : done to complete the selection of products
Enter your selection:
215
Enter your selection:
4
Enter your selection:
5
Enter your selection:
6
Enter your selection:
Done
```

11. If you are prompted for the CASS data packs, type *none* and press *Enter*. Then type *Done* and press *Enter* again. Otherwise, you can skip this step and the data pack download process begins.

```
-------------------------------------------------------
S.No  Certification Product          Date of Release
-------------------------------------------------------
1     CASS Library (Linux 64)        2020-04-15
2     CASS Library (Windows 32)      2020-04-15
3     CASS Library (Windows 64)      2020-04-15
4     USA Verify Dataset CASS        2020-04-15
-------------------------------------------------------
Enter : 1 to install the first Product, 2 to install the second Product
and so on
Enter : none to skip certification products
Enter : all if all products are to be installed
Enter : done to complete the selection of products

*** Note: You are running Install Manager on Linux 64
You may extract the other platform packs as well. However, only the
compatible library/data will be placed in the API installation/data
installation folders, respectively.
Enter your selection:
none
Skipping Certification products
Enter your selection:
done
```

```
----------------------------------------
Space available : 53.9 GB
Space required for download : 78.6 GB
----------------------------------------
Downloading data packs.
++++++++++
Completed downloading DSVALB_4290_20200421_3.lfz
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
++++++++
++++++++++++++++++++++
Completed downloading KBCOMMON_14420_20200421_118.lfz
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
++++++++
++++++++
Completed downloading data packs.
----------------------------------------
Space available : 53.9 GB
Space required for install : 123.0 GB
----------------------------------------
Beginning installing of data packs.

Unzipping DSRALB_7975_20200128_1.lfz and installing
+
Unzipping DSGALB_4290_20200421_1.lfz and installing
+
Unzipping KBCOMMON_14420_20200421_118.lfz and installing
++++++++++++++++++++++++++++++++++++++++++++++++++++++++
+++++++++++++++++++++++++
++++++++++++++++++++++++++++++++++++++++
Unzipping DSVALB_4290_20200421_3.lfz and installing
+++
Completed installing the data packs.
Datapack installation was successful.
```

Procedure: How to Set Loqate Environment Variables

Depending on your operating system, you must first modify the *.profile* and *bash_profile* files that are called when opening a shell.

1. Add the following lines at the end of these files:
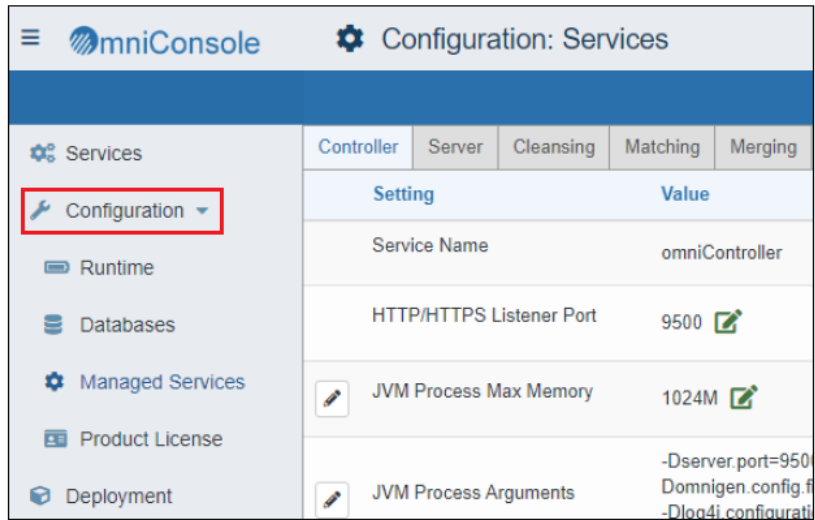
    ```
    export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/software/loqate
    export LIBPATH=$LIBPATH:/software/loqate
    ```

2. Save and then close these files.

3. Open a new shell to implement any changes that were made to your environment variables.

Procedure: **How to Verify Loqate Functionality**

To verify Loqate functionality:

1. Edit the *runbatch.sh* file, as shown below.

   ```
   # vi runbatch.sh
   ```

2. Modify line 8 by changing *-p "V"* to *-p "VG"*, as shown in the following image.

3. Save and then close the *runbatch.sh* file.

4. Execute the *runbatch.sh* file, as shown below.

   ```
   # ./runbatch.sh
   ```

5. Edit the result file, which is named *sample.txt*Output.txt*, as shown below.

   ```
   # vi sample.txt*Output.txt
   ```

6. Verify that the address verification codes (in the format of V44-I44-P7-100) and geolocation columns are populated, as shown in the following image.

Procedure: **How to Set the Omni-Gen® DQ Cleanse JVM Arguments**

To set the cleanse Omni-Gen® DQ JVM arguments:

1. Log in to the Omni-Gen Console.

2. Expand *Configuration* in the left pane, as shown in the following image.

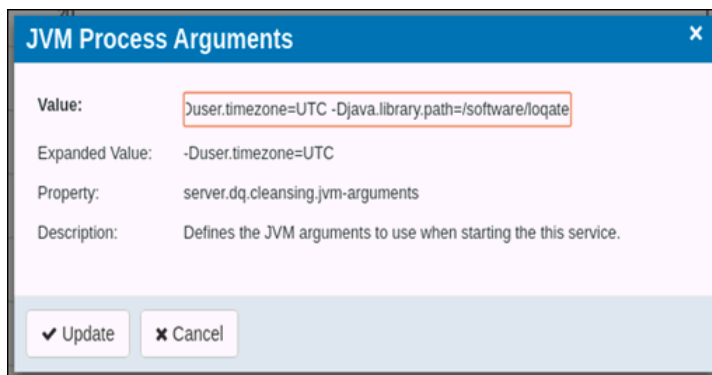3. Click *Managed Services*, as shown in the following image.
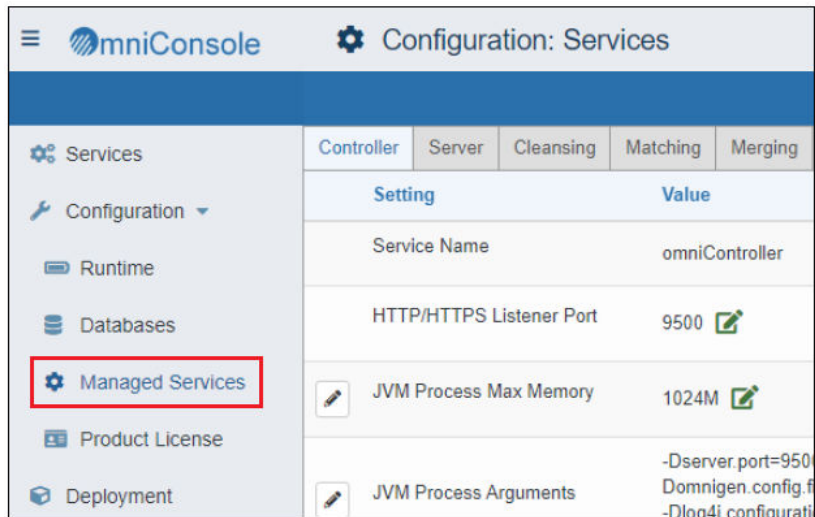
4. Click the *Cleansing* tab, as shown in the following.
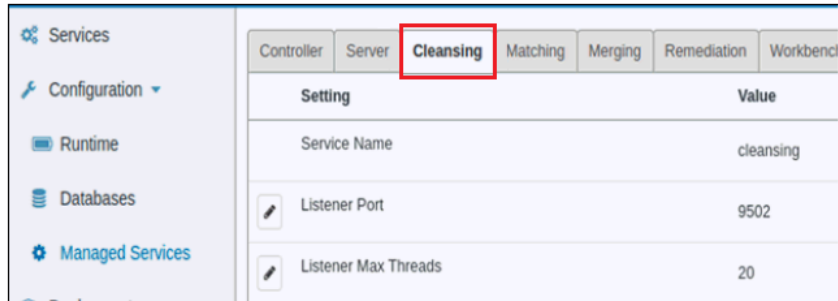
5. Click the edit icon to the left of the *JVM Process Arguments* parameter, as shown in the following image.

The JVM Process Arguments dialog box opens, as shown in the following image.

6. In the Value field, type the following syntax and ensure there is a space between UTC and the new value.

```
-Djava.library.path=/software/loqate
```

7. Click *Update*.

   The new value is now displayed for the *JVM Process Arguments* parameter, as shown in the following image.

✎	JVM Process Max Memory	512M
✎	JVM Process Arguments	-Duser.timezone=UTC -Djava.library.path=/software/loqate ✎
✎	JVM Process Classpath	/software/omnigen/OmniServer/mastering/runtime/lib/* /software/omnige

Procedure: **How to Restart Omni-Gen**

To restart Omni-Insurance:

1. Open a new shell (terminal window) to ensure that the new environment variables are set.

2. Completely stop, then start all of Omni-Insurance.

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