Omni-Gen™ Address Cleansing (Loqate) Installation and Configuration Guide
Version 3.2 and Higher
## Contents

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Preface

This documentation describes how to install and configure Loqate to enable address cleansing operations in Data Quality Workbench, which is accessible through Omni Governance Console (OGC).

How This Manual Is Organized

This manual includes the following chapters:

<table>
<thead>
<tr>
<th>Chapter/Appendix</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Data Quality Workbench</td>
<td>Describes how to install and configure Loqate to enable address cleansing operations in Data Quality Workbench, which is accessible through Omni Governance Console (OGC).</td>
</tr>
</tbody>
</table>

Documentation Conventions

The following table lists and describes the documentation conventions that are used in this manual.

<table>
<thead>
<tr>
<th>Convention</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>THIS TYPEFACE</td>
<td>Denotes syntax that you must type exactly as shown.</td>
</tr>
<tr>
<td>or this typeface</td>
<td>Represents a placeholder (or variable), a cross-reference, or an important term. It may also indicate a button, menu item, or dialog box option that you can click or select.</td>
</tr>
<tr>
<td>underscore</td>
<td>Indicates a default setting.</td>
</tr>
<tr>
<td>Key + Key</td>
<td>Indicates keys that you must press simultaneously.</td>
</tr>
<tr>
<td>{}</td>
<td>Indicates two or three choices. Type one of them, not the braces.</td>
</tr>
<tr>
<td></td>
<td>Separates mutually exclusive choices in syntax. Type one of them, not the symbol.</td>
</tr>
</tbody>
</table>
### Convention Description

<table>
<thead>
<tr>
<th>Convention</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>...</td>
<td>Indicates that you can enter a parameter multiple times. Type only the parameter, not the ellipsis (...).</td>
</tr>
<tr>
<td>.</td>
<td>Indicates that there are (or could be) intervening or additional commands.</td>
</tr>
</tbody>
</table>

### Related Publications

Visit our Technical Documentation Library at [http://documentation.informationbuilders.com](http://documentation.informationbuilders.com). You can also contact the Publications Order Department at (800) 969-4636.

### Customer Support

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You can also access support services electronically, 24 hours a day, with InfoResponse Online. InfoResponse Online is accessible through our website, [http://www.informationbuilders.com](http://www.informationbuilders.com). It connects you to the tracking system and known-problem database at the Information Builders support center. Registered users can open, update, and view the status of cases in the tracking system and read descriptions of reported software issues. New users can register immediately for this service. The technical support section of [www.informationbuilders.com](http://www.informationbuilders.com) also provides usage techniques, diagnostic tips, and answers to frequently asked questions.

Call Information Builders Customer Support Services (CSS) at (800) 736-6130 or (212) 736-6130. Customer Support Consultants are available Monday through Friday between 8:00 A.M. and 8:00 P.M. EST to address all your questions. Information Builders consultants can also give you general guidance regarding product capabilities. Be prepared to provide your six-digit site code (xxxx.xx) when you call.

To learn about the full range of available support services, ask your Information Builders representative about InfoResponse Online, or call (800) 969-INFO.
Help Us to Serve You Better

To help our consultants answer your questions effectively, be prepared to provide specifications and sample files and to answer questions about errors and problems.

The following table lists the environment information that our consultants require.

<table>
<thead>
<tr>
<th>Platform</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td></td>
</tr>
<tr>
<td>OS Version</td>
<td></td>
</tr>
<tr>
<td>JVM Vendor</td>
<td></td>
</tr>
<tr>
<td>JVM Version</td>
<td></td>
</tr>
</tbody>
</table>

The following table lists additional questions to help us serve you better.

<table>
<thead>
<tr>
<th>Request/Question</th>
<th>Error/Problem Details or Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Did the problem arise through a service or event?</td>
<td></td>
</tr>
<tr>
<td>Provide usage scenarios or summarize the application that produces the problem.</td>
<td></td>
</tr>
<tr>
<td>When did the problem start?</td>
<td></td>
</tr>
<tr>
<td>Can you reproduce this problem consistently?</td>
<td></td>
</tr>
<tr>
<td>Describe the problem.</td>
<td></td>
</tr>
<tr>
<td>Describe the steps to reproduce the problem.</td>
<td></td>
</tr>
<tr>
<td>Specify the error messages.</td>
<td></td>
</tr>
<tr>
<td>Request/Question</td>
<td>Error/Problem Details or Information</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>Any change in the application environment: software configuration, EIS/database</td>
<td></td>
</tr>
<tr>
<td>configuration, application, and so forth?</td>
<td></td>
</tr>
<tr>
<td>Under what circumstance does the problem not occur?</td>
<td></td>
</tr>
</tbody>
</table>

The following is a list of error and problem files that might be applicable.

- Input documents (XML instance, XML schema, non-XML documents)
- Transformation files
- Error screen shots
- Error output files
- Trace files
- Custom functions and agents in use
- Diagnostic Zip
- Transaction log

**User Feedback**

In an effort to produce effective documentation, the Technical Content Management staff welcomes your opinions regarding this document. Please use the Reader Comments form at the end of this document to communicate your feedback to us or to suggest changes that will support improvements to our documentation. You can also contact us through our website, [http://documentation.informationbuilders.com/connections.asp](http://documentation.informationbuilders.com/connections.asp).

Thank you, in advance, for your comments.

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Interested in technical assistance for your implementation? Our Professional Services department provides expert design, systems architecture, implementation, and project management services for all your business integration projects. For information, visit our website, http://www.informationbuilders.com/consulting.
Omni-Gen™ Master Data Management (MDM) Edition and Data Quality (DQ) Edition version 3.2 provide support for address cleansing operations in the Data Quality Workbench, which is accessible through the Omni Governance Console (OGC). These address cleansing operations require the installation of the Loqate component. The files required to install Loqate are provided in a separate installer and will be prepackaged into the standard Omni-Gen installer distribution in a future release of Omni-Gen MDM Edition and DQ Edition. To obtain the Loqate installer and the required license key, contact iWay Customer Support.

In this chapter:

- Installing Loqate on Windows
- Installing Loqate on Linux
- Testing Address Cleansing Operations

Installing Loqate on Windows

Loqate is used to enable address cleansing operations in the Data Quality Workbench. Loqate must be installed on the system where Omni-Gen is currently running. Loqate must be installed with an associated license key based on your purchase of Omni-Gen MDM Edition or DQ Edition. If you do not have a license key for Loqate, then contact iWay Customer Support.

Procedure: How to Install Loqate on Windows

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

1. Create the following folder on your file system:
   
   `C:\loqate`

2. Open a Windows command prompt, and make sure to run it as administrator.

3. Type the following to change directories and press Enter.
   
   `cd \omnigen\omniserver`

4. Type the following command and press Enter.
   
   `omni stop-all`
5. Right-click the provided `setup_64.exe` installation file for Loqate, and select Run as Administrator from the context menu.

The GBG Loqate Setup installation wizard opens and initially displays a Welcome screen, as shown in the following image.

6. Click Next.
The License Agreement screen opens, as shown in the following image.

7. Select *I accept the terms of the license agreement* and then click *Next*.
The Select Components screen opens, as shown in the following image.

8. Accept all of the components that are selected by default for installation and then click Next.
The Choose Destination Location screen opens, as shown in the following image.

![Choose Destination Location Screen]

**Note:** The recommended installation location (destination folder) is `C:\loqate`, which matches the default location that is specified in the Data Quality (DQ) cleansing plans that are prepackaged with Omni-Gen™ for Customer. If you choose a different installation location, then you will have to manually update the Loqate step in each DQ cleansing plan with your specific path.

9. Ensure that `C:\loqate` is specified as the destination folder and then click Next.
Installing Loqate on Windows

The Start Copying Files screen opens, as shown in the following image.

10. Click Next.
The Installing screen opens and displays a progress bar for the Loqate installation, as shown in the following image.
During the installation, the Data Installation screen opens, as shown in the following image.

11. Click Next to continue.

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

12. 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.

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

   *C:\loqate*

14. Right-click the *InstallManager.bat* file, and select *Run as Administrator* from the context menu.
The Installation Manager v10.0.0 wizard opens and initially displays a Welcome screen, as shown in the following image.

![Welcome Screen](image)

15. Click Next.
The Choose Data Installation Location screen opens, as shown in the following image.

16. Click Select.

The Select Data Install Folder screen opens.

17. Navigate to (and select) the following directory:

C:\loqate\data

18. Click OK.

You are returned to the Choose Data Installation Location screen.

19. Click Next to continue with the installation.
The Enter License Information screen opens, as shown in the following image.

20. Enter the license key that is included with your purchase of Loqate, and then click Next.

For more information about obtaining a license key, contact iWay Customer Support.
The License Details screen opens, as shown in the following image.

![License Details Screen](image)

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

21. Confirm the license details and then click Next.
The Data Pack Selection screen opens, as shown in the following image.

22. Click **Select**.

   In the dialog that opens navigate to (and select) the location of the data pack download folder. For example:

   
   ```
   C:\loqate\download
   ```

23. Click **OK** to close the dialog and then click **Next** on the Data Pack Selection screen to continue.
24. Deselect the Select All check box, as shown in the following image.

![Image of Select All check box deselected]

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

25. In the list of data packs, select only the data packs that are shown in the following image.

```
- **Canada**
  - Canada Geocode Dataset 2017-10-18
  - Canada Verify Dataset 2017-11-27

- **Knowledgebase Common (REQUIRED)**
  - Knowledge Base Common 2017-11-27

- **United States**
  - USA Geocode Dataset 2017-10-18
  - USA Geocodes1 Dataset 2017-10-18
  - USA Geocodes2 Dataset 2017-10-18
  - USA Geocodes3 Dataset 2017-10-18
  - USA Verify Dataset 2017-11-27
```

26. Click Next to continue.
27. Deselect all CASS library data packs, and then click Next, as shown in the following image.

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

The download proceeds and displays its progress.
28. Wait for the download to complete, which can take a few minutes, and then click Next to continue.

The License Agreement screen opens, as shown in the following image.

![License Agreement Screen](image)

29. Select *I accept the terms of the license agreement* and then click Next.
The installation of the selected country data packs begins, which is indicated by a progress bar, as shown in the following image.

30. When the installation is complete, click Finish.

After you have finished downloading and installing the country data packs for Loqate, you must install the address cleansing metadata for Omni-Gen to enable address cleansing operations within Data Quality Workbench.

**Note:** If Omni-Gen Server was running during the Loqate installation, then Omni-Gen Server must be restarted and you must restart all Omni-Gen services.

The address cleansing metadata consists of the following two files:

- complex_address_cleanse_STRING.comp
- complex_address_cleanse_STRING.xml

31. Download these files from the Technical Support Center (https://techsupport.informationbuilders.com/) along with the appropriate Omni-Gen installer.

32. Copy these two files from the download location to the following folder:

   `<OmniHome>\OmniGenData\OmniDesigner\.repositoryservice\Operations\cleanse\complex`

33. Start Omni-Gen Server.
Installing Loqate on Linux

Loqate is used to enable address cleansing operations in Data Quality Workbench, which is accessible through Omni Governance Console (OGC). Loqate must be installed on the system where Omni-Gen is currently running. Loqate must be installed with an associated license key based on your purchase of Omni-Gen MDM Edition or DQ Edition. If you do not have a license key for Loqate, then contact iWay Customer Support.

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`), and execute the Loqate installer. For example:

   ```
   # ./loqate_installer_x86_64
   This will install Loqate on your computer. Continue? [n/Y] y
   ```

2. Accept the license agreement by typing `y` and pressing `Enter`, as shown below.

   ```
   Do you agree to the license? [y/n] y
   ```

3. Enter the location on your system where you want 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 marked with 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 is started 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 10.0.0
Running using local API version 2.25.1.9411

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)?

3. Type \textit{n} and press Enter.

4. Enter the location on your system where you want to install the data packs (for example, /software/loqate/data), as shown below.

\textit{Please enter the path to the data installation folder}
\texttt{/software/loqate/data}
\textit{Valid folder found. Proceeding with a data installation.}

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

\textit{Please select from below:}
\begin{itemize}
  \item Enter 1 if you have a license key
  \item Enter 2 if you have a license pack
  \item Enter 3 to exit
\end{itemize}

1

5. Type 1 and press Enter.

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

\textit{Please enter the license key:} \texttt{<enter_your_license_key_here>}

Contacting license server to validate the license key.
++++
Details of your current license
-------------------------------------------------------
<table>
<thead>
<tr>
<th>Product</th>
<th>Expiry Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge Base Common</td>
<td>2018-12-31</td>
</tr>
<tr>
<td>Worldwide Geocode Dataset</td>
<td>2018-12-31</td>
</tr>
<tr>
<td>Worldwide Verify Dataset (O)</td>
<td>2018-12-31</td>
</tr>
<tr>
<td>USA Verify Dataset CASS</td>
<td>2018-12-31</td>
</tr>
<tr>
<td>USA Enhance CENSUS Dataset</td>
<td>2018-12-31</td>
</tr>
<tr>
<td>CASS Library</td>
<td>2018-12-31</td>
</tr>
</tbody>
</table>
-------------------------------------------------------

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 where you want to store the downloaded data packs (for example, /software/logate/download/), as shown below.

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

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

Please enter a valid download folder path
/software/logate/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 2017-10-18
2 Africa and Middle East Other Verify Dataset 2017-10-18
.....
.....
139 Kenya Geocode Dataset 2017-10-18
140 Kenya Verify Dataset 2017-10-18
141 Knowledge Base Common 2017-11-27
142 Kuwait Geocode Dataset 2017-10-18
143 Kuwait Verify Dataset 2017-10-18
.....
.....
270 Turkey Geocode Dataset 2017-10-18
271 Turkey Verify Dataset 2017-10-18
272 USA Enhance CENSUS Dataset 2016-01-07
273 USA Geocode Dataset 2017-10-18
274 USA Geocode1 Dataset 2017-10-18
275 USA Geocode2 Dataset 2017-10-18
276 USA Geocode3 Dataset 2017-10-18
277 USA Verify Dataset 2017-11-27
278 Uganda Geocode Dataset 2017-10-18
279 Uganda Verify Dataset 2017-10-18
.....
.....

Note: The available data packs may vary based on your licensing.
9. Enter the corresponding number for each of the following data packs, and press Enter after each.

- Knowledge Base Common
- USA Geocode Dataset
- USA Geocode1 Dataset
- USA Geocode2 Dataset
- USA Geocode3 Dataset
- USA Verify Dataset

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:
   141
   Enter your selection:
   273
   Enter your selection:
   274
   Enter your selection:
   275
   Enter your selection:
   276
   Enter your selection:
   277
   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. Otherwise, you can skip this step and proceed directly to step 12.
<table>
<thead>
<tr>
<th>S.No</th>
<th>Certification Product</th>
<th>Date of Release</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CASS Library (Linux 64)</td>
<td>2017-07-11</td>
</tr>
<tr>
<td>2</td>
<td>CASS Library (Windows 32)</td>
<td>2017-07-11</td>
</tr>
<tr>
<td>3</td>
<td>USA Verify Dataset CASS</td>
<td>2017-10-30</td>
</tr>
</tbody>
</table>

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

LICENSE AGREEMENT

1.0    U.S. GOVERNMENT LICENSING RIGHTS; NOTIFICATION OF EXPORT RESTRICTION.

......
......

Switzerland    "Topografische Grundlage:    Bundesamt für Landestopographie."

12. Accept the license agreement by typing y and pressing Enter, as shown below.
Have you read the license agreement and agree to its contents (y/n)?

y

Space available : 53.4 GB
Space required for download : 6.0 GB

Download data packs.

+++++++++
Completed downloading KBCOMMON_9100_20171127_115.lfz
+++++++++++++++++
Completed downloading DSGUSA2_5985_20171018_901.lfz
+++++++++++++++++
 Completed downloading DSGUSA_5985_20171018_2642.lfz
+       
Completed downloading DSGUSA1_5985_20171018_2970.lfz
++
Completed downloading DSVUSA_5985_20171127_3953.lfz
++
Completed downloading data packs.

Space available : 47.3 GB
Space required for install : 10.3 GB

Beginning installing of data packs.

Unzipping DSGUSA_5985_20171018_2642.lfz and installing
Unzipping DSGUSA3_5985_20171018_1.lfz and installing
+       
Unzipping DSGUSA1_5985_20171018_2970.lfz and installing
Unzipping DSGUSA2_5985_20171018_901.lfz and installing
Unzipping KBCOMMON_9100_20171127_115.lfz and installing
++
Unzipping DSVUSA_5985_20171127_3953.lfz and installing
Completed installing the data packs.

Successfully installed the data packs.

When you receive a message indicating Successfully installed the data packs, then the download and installation process for the Loqate data packs is complete.
Procedure: How to Install Address Cleansing Metadata

After you have finished downloading and installing the country data packs for Loqate, you must install the address cleansing metadata for Omni-Gen to enable address cleansing operations within Data Quality Workbench.

1. Start Omni-Gen Server.
   
   Note: If Omni-Gen Server was running during the Loqate installation, then Omni-Gen Server must be restarted and you must restart all Omni-Gen services.

   The address cleansing metadata consists of the following two files:
   
   - complex_address_cleanse_STRING.comp
   - complex_address_cleanse_STRING.xml

2. Download these files from the Technical Support Center (https://techsupport.informationbuilders.com/) along with the appropriate Omni-Gen installer.

3. Copy these two files from the download location to the following folder:
   
   <OmniHome>/OmniGenData/OmniDesigner/.repositoryservice/Operations/cleansecomplex

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.

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

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

   ```bash
   # 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 DQ Cleanse JVM Arguments

To set the DQ cleanse JVM arguments:

1. Log in to the Omni Console.
2. Expand *Configuration* in the left pane, as shown in the following image.

![Configuration: Services](image_1)

3. Click *Managed Services*, as shown in the following image.

![Configuration: Services](image_2)
4. Click the *Cleansing* tab.

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 opens, as shown in the following image.

6. In the Value field, enter 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 Arguments](image)

**Procedure:** How to Modify Data Quality Server Components for the Correct Loqate Installation Location

To modify the Data Quality Server (DQS) components for the correct Loqate installation location:

1. Change your directory to the location of the DQS address cleansing component. For example:

   ```bash
   # cd /software/omnigen/OmniServer/mastering/services/cleansing/components/sub
   ```

2. Edit the `generic_address_cleanse.comp` file, as shown below.

   ```bash
   # vi generic_address_cleanse.comp
   ```

3. Modify the path on line 171 from `C:\loqate\data` to `/software/loqate/data`, as shown in the following image.

   ![Path Modification](image)

4. Save the `generic_address_cleanse.comp` file and then exit.

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

To restart Omni-Gen:

1. Open a new shell (terminal window) to ensure that the new environment variables are set.
2. Completely stop, then start all of Omni-Gen.
Testing Address Cleansing Operations

To load the proper paths to the Loqate components, ensure to restart the Omni-Gen Controller and all Omni-Gen services after Loqate is installed. This section uses sample data for demonstration purposes only.

1. Log on to Omni Governance Console (OGC).
2. Click the Workbench tab.
3. From the table, select the address (addr) attribute column, and then expand the rules panel, as shown in the following image.

4. Click Add Rule, as shown in the following image.
The Rules dialog opens, as shown in the following image.

5. Click *Add complex operation*.
6. Click *Cleanse US Address*, as shown in the following image.
7. Map the parameters and add all tags for testing purposes, as shown in the following image.

8. Click Save to save the operation.
9. Click *Execute rules*, as shown in the following image.

While the process is running, a message displays indicating that the rules are locked, as shown in the following image.
When a rule has completed execution, a corresponding success message is displayed, as shown in the following image.

10. Close the dialog or wait for the dialog to automatically close. The data in the table is refreshed.

11. Expand the chart located at the top using the drop-down arrow, as shown in the following image.
12. Click Tags, as shown in the following image.

![Tags Image]

13. Click Individual, as shown in the following image.

![Individual Image]

From here you can confirm that the address cleansing operation ran successfully, since tags are being created.

14. Click Tags to filter the results.

**Note:** The initial results are going to be poor due to the country not being part of the 3-digit ISO standard. Adding country cleansing to ISO3 would greatly improve the results.
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Omni-Gen™ Address Cleansing (Loqate) Installation and Configuration Guide
Version 3.2 and Higher