

NetIQ Identity Manager 4.8 Identity Applications Tools Patch 1 Release Notes

March 2022

NetIQ Identity Manager 4.8 Identity Applications Tools Patch 1 (1.0.0.0100) contains an improved version of the workflow migration utility, which considerably reduces data migration time even in databases with large volumes of data. This document explains how to migrate data into the workflow database using the workflow migration utility included with this patch.

Software Fixes

This release contains a software fix for the following defects:

- ♦ OCTCR28Q329301: The `Workflow-Migration.jar` is not suitable to migrate large databases.
- ♦ OCTCR28Q329251: The `Workflow-Migration.jar` should not write to `/tmp` directory, but rather allow users to specify a working directory.

How to Migrate Data Into the Workflow Database?

This section provides step-by-step instructions on how to use the workflow migration utility for migrating data into the workflow database:

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Considerations Before Migrating

Before migrating the data, review the following considerations:

- ♦ Ensure that the database user has all privileges to modify the database
- ♦ The Roles and Resource driver should not be started until the data export and import operations are completed

When Should You Apply This Patch?

Apply this patch before upgrading the Identity Applications component from Identity Manager 4.6.x or 4.7.x to Identity Manager 4.8. Make sure that you restart Tomcat only after the migration is complete.

For more information on how to upgrade Identity Applications component, see [Upgrading Identity Applications](#) in the *NetIQ Identity Manager Setup Guide for Linux* or [Upgrading Identity Applications](#) in the *NetIQ Identity Manager Setup Guide for Windows*.

How to Apply This Patch?

- 1 Log in to the Identity Applications server.
- 2 Download the Workflow-Migration-1.0.0.0100.zip file from the [Software and License Download](#) portal.
- 3 Extract the Workflow-Migration-1.0.0.0100.zip file to the /home directory.
- 4 Copy the jdbc.jar (for example, sqljdbc42.jar) file to /home/WorkflowMigration/WEB-INF/lib/ directory and rename the file as jdbcDriver.jar.
- 5 Stop the Roles and Resource Service driver.
- 6 Start Tomcat.
- 7 Run the following commands to export the data:

```
[postgres] /opt/netiq/common/jre/bin/java -jar Workflow-Migration.jar -e
wf_db_migration.zip -surl jdbc:postgresql://ip:port/idmuserappdb -suser
idmadmin -spwd ***** -sdb postgres -sbatch 1000 -tables
afmodel,afprocess,afdocument,afactivity,afactivitytimertasks,afbranch,afcommen
t,afprovisioningstatus,afquorum,afworktask,configuration,email_approval_token,
localization,processed_eba_mails
```

```
[oracle] /opt/netiq/common/jre/bin/java -jar Workflow-Migration.jar -e
wf_db_migration.zip -surl jdbc:oracle:thin:@IP:1521:idmdb -suser idmadmin -
spwd **** -sdb oracle -sbatch 1000 -tables
afmodel,afprocess,afdocument,afactivity,afactivitytimertasks,afbranch,afcommen
t,afprovisioningstatus,afquorum,afworktask,configuration,email_approval_token,
localization,processed_eba_mails
```

```
[mssql] /opt/netiq/common/jre/bin/java -jar Workflow-Migration.jar -e
wf_db_migration.zip -surl "jdbc:sqlserver://IP:1433;databaseName=idmdb" -suser
idmadmin -spwd ***** -sdb mssql -sbatch 1000 -tables
afmodel,afprocess,afdocument,afactivity,afactivitytimertasks,afbranch,afcommen
t,afprovisioningstatus,afquorum,afworktask,configuration,email_approval_token,
localization,processed_eba_mails
```

- 8 Run the following commands to import the data:

IMPORTANT: Unzip the wf_db_migration.zip folder exported using the workflow migration tool to a specified directory, then input the unzipped folder name in the import command. Also, make sure that the -archive option is set to false when you are providing unzipped folder name. It reduces the migration time significantly.

```
[postgres] /opt/netiq/common/jre/bin/java -jar Workflow-Migration.jar -i
wf_db_migration -archive false -durl jdbc:postgresql://IP:port/igaworkflowdb -
duser idmadmin -dpwd ***** -ddb postgres -tables
afmodel,afprocess,afdocument,afactivity,afactivitytimertasks,afbranch,afcommen
t,afprovisioningstatus,afquorum,afworktask,configuration,email_approval_token,
localization,processed_eba_mails
```

```
[oracle] /opt/netiq/common/jre/bin/java -jar Workflow-Migration.jar -i
wf_db_migration -archive false -durl jdbc:oracle:thin:@IP:1521:igadb -duser
idmadmin -dpwd novell -ddb oracle -tables
afmodel,afprocess,afdocument,afactivity,afactivitytimertasks,afbranch,afcommen
t,afprovisioningstatus,afquorum,afworktask,configuration,email_approval_token,
localization,processed_eba_mails
```

```
[mssql] /opt/netiq/common/jre/bin/java -jar Workflow-Migration.jar -i
wf_db_migration -archive false -durl "jdbc:sqlserver://
IP:1433;DatabaseName=igadb" -duser idmadmin -dpwd **** -ddb mssql -tables
afmodel,afprocess,afdocument,afactivity,afactivitytimertasks,afbranch,afcommen
t,afprovisioningstatus,afquorum,afworktask,configuration,email_approval_token,
localization,processed_eba_mails
```

9 Start the Roles and Resource Services driver.

Workflow Migration Utility Command Usage

The following options are supported with the jar:

-e	Export to ZIP file name. Example: wf_db_migration.zip
-i	Import data from ZIP file name. Example: wf_db_migration.zip
-archive	For unzipped folder, input false. Default value is true.
-surl	Source Server protocol (Example: jdbc:ip:port/idmuserappdb)
-suser	Source database username (default: idmadmin)
-spwd	Source Database user password
-sdb	Source Database (Example: postgres)
-sbatch	Batch size for exporting the data in chunks (default: 100)
-durl	Destination Database Server jdbc URL (Example: jdbc:ip:port/igaworkflowdb)
-duser	Destination Server IP address (default: idmadmin)
-dpwd	Destination Database user password
-ddb	Destination Database (Example: postgres)

-tables List of tables for export/import

-f <filename> Use this option for silent mode, load values from property file. This will override other options passed to this utility

-D user.home User home directory to write the imported data received as input stream

-D tmp.dir Temporary directory to unzip the imported data if archived (zip)

-archive Boolean flag to check whether data gets archived for import or export

How Long Does Database Migration Take?

Data migration into the workflow database can take anywhere between a few minutes to several hours. The following table lists the average time taken for import and export operations in all supported databases using the workflow migration utility:

Database Size (in terms of number of records)	Time Taken for Export Operation	Time Taken for Import Operation
5 million	3 minutes	56 minutes
6 million	4 minutes	1 hour 10 minutes
10 million	6 minutes	1 hour 50 minutes
15 million	7 minutes	2 hours 40 minutes

The migration time increases in proportion to the data size. The larger the volume of data, the longer it takes to migrate data. For example, if the database contains more than 15 million records, each additional million records adds an extra 1 minute to the export time and 15 minutes to the import time. Additionally, migration times vary depending on the hardware configuration of the database and application servers, such as memory, CPU core count, and disk write speed. Therefore, NetIQ recommends taking these factors into account when planning a database migration.

Known Issues

NetIQ Corporation strives to ensure our products provide quality solutions for your enterprise software needs. There are no new issues other than the issues mentioned in [NetIQ Identity Manager 4.8 Release Notes](#). If you need further assistance with any issue, contact [Technical Support](#).

Contact Information

Our goal is to provide documentation that meets your needs. If you have suggestions for improvements, please email Documentation-Feedback@netiq.com. We value your input and look forward to hearing from you.

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