

erwin **Data Intelligence (DI) SUITE**

Version 11.1

Certified Release on Log4j 2.17.1

Software Upgrade Guide

This document provides the instructions to upgrade the DI Suite software from your current version to the new 11.1 version.

The 11.1 version is certified on Log4j 2.17.1.

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Important note to determine if you are ready to upgrade to v11.1

If you are using the *erwin automation framework* or *custom smart connectors* in your current version of erwin DI, please reach out to your erwin Professional Services SME, Implementation SME, or Customer Success Manager to determine the upgrade path and ensure your smart connectors work on the latest 11.1 version so you can have a smoother upgrade experience and limit the production downtime.

We recommend that you do not upgrade directly to the latest 11.1 version without involving an erwin SME especially in cases where you have Smart Connectors configured in your environment.

License Key Readiness: Version 11.1 requires a new License key and any older version key will not work on 11.1 (if you are on version 10.2 or below). Please ensure that you have the new key available with you before you start the upgrade process.

Please note that if you are already on v11.0, you do not need a new license key. Your 11.0 key should work on 11.1 as well.

Prerequisites to Upgrade to the 11.1 version

Prerequisite:** AdoptOpen 8u282-b08 and Tomcat 9.0.45/46

The erwin DI Suite software is certified to run on

- Tomcat 9.0.45/46 – (compatible with Tomcat v9.0.37 also)
- Java – AdoptOpen 8u282-b08

***Important Note:** If you have older **7x versions of Java** and/or **v8.0.x versions of Tomcat** installed, you need to upgrade these to the respective new versions prior to upgrading to the DI Suite 11.0 version. The DI Suite v11.0 has been officially certified on Tomcat 9.0.45/46. We would recommend that you install tomcat 9.0.45/46 to avoid any compatibility issues. However, if you are already on Tomcat 9.0.37 version, you can continue using DI 11.0 on the older Tomcat 9.0.37 version as well and upgrade to Tomcat 9.0.45/46 subsequently should you encounter any unexpected compatibility issues.

To upgrade to the 8x versions of Java and 9.0.45/46 version of Tomcat [Click here](#)

If upgrading from Tomcat 8x version to Tomcat 9.0.45/46. Ensure that you backup the entire webapps folder

Upgrading to the erwin DI Suite 11.1 version from version 11.0

Backups to be taken

Database Backup

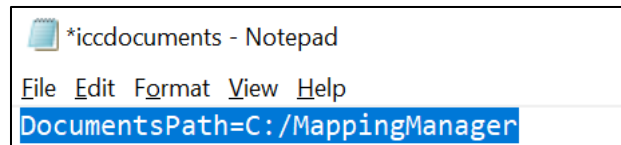
1. ****IMPORTANT**** - Take a backup of the existing DI Database, the *erwinDISuite.war* file and *erwinDISuite* folder (present in Tomcat home/webapps folder).

Application Configuration Backup

2. Take a backup of the *database.properties* file from the following folder
Folder: C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps\erwinDISuite\WEB-INF\Database\

3. Take a backup of **iccdocuments.properties** file from the following folder
Folder: C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps\erwinDISuite\WEB-INF\configuration\properties
4. Take a backup of the entire application folder

Open the **iccdocuments.properties** file and go to the specified location mentioned in the **DocumentsPath** variable and take a backup of the entire physical folder



Example: backup the entire *C:/MappingManager* folder

Upgrade Steps for Database

1. From the newly downloaded **software build** → **SQL** folder

For SQL Server database

- Execute the **erwinDISuite_SqlServer.sql** script against the existing DI SQL Server database.
- **Important** - Please wait for the script to complete fully before proceeding with the next step.

For Oracle database

- Execute the **erwinDISuite_Oracle.sql** script against the existing DI Oracle database.
- **Important** - Please wait for the script to complete fully before proceeding with the next step.

Upgrade Steps for Tomcat Server

1. Stop the tomcat server
2. From the tomcat/webapps/ folder, delete the existing **erwinDISuite.war** file and the **erwinDISuite** folder.
3. Go into the *Tomcat Directory\work\Catalina\localhost* folder and delete the **erwinDISuite** folder.
4. From the newly Downloaded **software build** → **WAR** folder, copy the **erwinDISuite.war** file and paste into the *tomcat/webapps* folder.
5. ****IMPORTANT**** - Start the Tomcat server.
6. You will now see an expanded **erwinDISuite** folder in the *tomcat/webapps/* directory. Please wait for a few minutes for the folder to explode completely.
7. ****IMPORTANT**** - Stop the Tomcat server.
8. Update the **Database Properties** file (the *database.properties* file is present in the *Tomcat home\webapps\erwinDISuite\WEB-INF\database* folder)

Note: You can replace the database.properties file from your 11.0 backup and use for the 11.1 upgrade.

If using SQL Server

- a. Update the parameters highlighted in yellow below with the actual values at your end.

```
DriverName=com.microsoft.sqlserver.jdbc.SQLServerDriver
URL=jdbc:sqlserver://localhost:1433;databaseName=ClientDBName
UserName=ClientUserID
Password=Client_Unencrypted_Password
PasswordEncrypted=false
DBType=SQLSERVER
```

- b. Set PasswordEncrypted=false
- c. Save changes to the *database.properties* file

If using Oracle

- a. Update the parameters highlighted in yellow below with the actual values at your end.

```
DriverName=oracle.jdbc.OracleDriver
URL=jdbc:oracle:thin:@//IP_ADDRESS:1521/ClientDBName
UserName=ClientUserID
Password=Client_Unencrypted_Password
PasswordEncrypted=false
DBType=ORACLESERVER
```

- b. Set PasswordEncrypted=false
- c. Save changes to the *database.properties* file

9. Update the *iccdocuments.properties* file. This is present in the *Tomcat home\webapps\erwinDISuite\WEB-INF\configuration\properties* folder

Note: You can replace the iccdocuments.properties file from your 11.0 backup and use for the 11.1 upgrade

- a. DocumentsPath=**Client_Path** (For example: DocumentsPath=C:\MappingManager)
- b. ApplicationURL=**Client_DI_URL** (For example: ApplicationURL= http://erwintest:9191/erwinDISuite)
- c. ApplicationTempPath=**Provide New Path For Temp Files** (this path is used to store all the temp files uploaded into the application (typically outside the tomcat directory) and can be periodically deleted by an admin)
For example: ApplicationTempPath= C:\DISuiteTemp

10. Update the LDAP and SAML properties sections if you are using these additional configurations.

11. Start the Tomcat Server.

12. Login to the application.

Upgrading to the erwin DI Suite 11.1 version from 10.2 or older versions

Backups to be taken

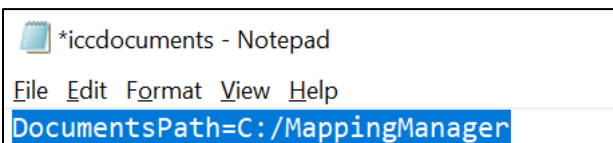
Database Backup

1. ****IMPORTANT**** - Take a backup of the existing DI Database, the *erwinDISuite.war* file and *erwinDISuite* folder (present in Tomcat home/webapps folder).

Application Configuration Backup

2. Take a backup of the *database.properties* file from the following folder
Folder: C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps\erwinDISuite\WEB-INF\Database\
3. Take a backup of *iccdocuments.properties* file from the following folder
Folder: C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps\erwinDISuite\WEB-INF\configuration\properties
4. Take a backup of the entire application folder

Open the *iccdocuments.properties* file and go to the specified location mentioned in the *DocumentsPath* variable and take a backup of the entire physical folder



Example: backup the entire *C:/MappingManager* folder

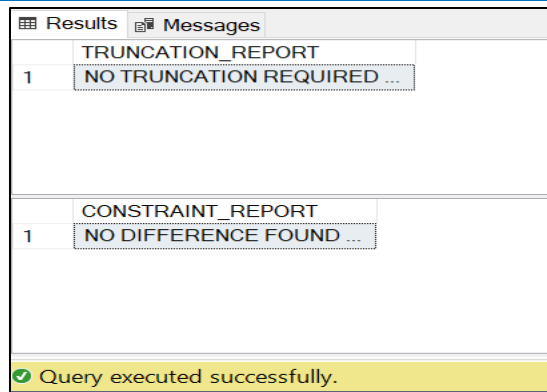
Upgrade Steps for Database

1. ****IMPORTANT**** – Please ensure the **Tomcat server is stopped** before you proceed with the below steps.

Note:

- The following Step is only required if you are on a SQL Server Database.
 - Ignore Step 2 if you are on an Oracle database and proceed to Step 3
2. From the newly Downloaded Software build → SQL folder, run the *erwinDISuite_SqlServer_Prerequisite.sql* script on the existing erwin DI database.

The prerequisite script should execute successfully as shown in the screenshot below i.e. with the '**NO TRUNCATION REQUIRED**' and '**NO DIFFERENCE FOUND**' messages



If you see the above output

- Proceed with Step 3

If you do not see the above output

- **Do NOT proceed** with the DI 11.1 upgrade.
- Reach out to the erwin support or Professional team immediately.

3. From the newly downloaded **software build** → **SQL** folder

For SQL Server database

- Execute the **erwinDISuite_SqlServer.sql** script against the existing DI SQL Server database.
- **Important** - Please wait for the script to complete fully before proceeding with the next step.

For Oracle database

- Execute the **erwinDISuite_Oracle.sql** script against the existing DI Oracle database.
- **Important** - Please wait for the script to complete fully before proceeding with the next step.

Upgrade Steps for Tomcat Server

1. From the tomcat/webapps/ folder, delete the existing **erwinDISuite.war** file and the **erwinDISuite** folder.
2. Go into the *Tomcat Directory\work\Catalina\localhost* folder and delete the **erwinDISuite** folder.
3. From the newly Downloaded **software build** → **WAR** folder, copy the **erwinDISuite.war** file and paste into the *tomcat/webapps* folder.
4. ****IMPORTANT**** - Start the Tomcat server.
5. You will now see an expanded **erwinDISuite** folder in the *tomcat/webapps/* directory. Please wait for a few minutes for the folder to explode completely.
6. ****IMPORTANT**** - Stop the Tomcat server.
7. Update the **Database Properties** file (the *database.properties* file is present in the *Tomcat home\webapps\erwinDISuite\WEB-INF\database* folder)

Note: The 11.0 version **database.properties** file has some new properties added (which does not exist in the older versions). As such, **DO NOT** replace the 11.0 version file with the older version file as is. Instead, go into the 11.0 version specific **database.properties** file and update only the connection parameter values specific to you without changing any of the actual keys in the file.

If using SQL Server

- d. Update the parameters highlighted in yellow below with the actual values at your end.


```
DriverName=com.microsoft.sqlserver.jdbc.SQLServerDriver
URL=jdbc:sqlserver://localhost:1433;databaseName=ClientDBName
UserName=ClientUserID
Password=Client_Unencrypted_Password
PasswordEncrypted=false
DBType=SQLSERVER
```

- e. Set PasswordEncrypted=false
- f. Save changes to the *database.properties* file

If using Oracle

- d. Update the parameters highlighted in yellow below with the actual values at your end.

```
DriverName=oracle.jdbc.OracleDriver
URL=jdbc:oracle:thin:@//IP_ADDRESS:1521/ClientDBName
UserName=ClientUserID
Password=Client_Unencrypted_Password
PasswordEncrypted=false
DBType=ORACLESERVER
```

- e. Set PasswordEncrypted=false
- f. Save changes to the *database.properties* file

- 8. Update the *iccdocuments.properties* file. This is present in the *Tomcat home\webapps\erwinDISuite\WEB-INF\configuration\properties* folder

Note: The 11.0 version *iccdocuments.properties* file has some new properties added (which does not exist in the older versions). As such, **DO NOT** replace the 11.0 version file with the older version file as is. Instead, go into the 11.0 version specific *iccdocuments.properties* file and update only the values highlighted in yellow below.

- d. DocumentsPath=**Client_Path** (For example: DocumentsPath=C:\MappingManager)
- e. ApplicationURL=**Client_DI_URL** (For example: ApplicationURL= http://erwintest:9191/erwinDISuite)
- f. ApplicationTempPath=**Provide New Path For Temp Files** (this path is used to store all the temp files uploaded into the application (typically outside the tomcat directory) and can be periodically deleted by an admin)
For example: ApplicationTempPath= C:\DISuiteTemp

- 9. From the newly downloaded **software build** → **DIMigrator** folder, copy the *DIMigrator.jar* file to *Tomcat_home\webapps\erwinDISuite\WEB-INF* folder.
- 10. Open the command prompt in Administrator mode and point to *Tomcat_home\webapps\erwinDISuite\WEB-INF* folder.

- 11. Execute the command: **java -jar DIMigrator.jar**

Note: The DIMigrator needs to be executed as part of the 11.0 upgrade process. This migrator upgrades all password configurations from the older encryption model (10.2 and earlier versions) to the latest AES/FIPS compliance model.

12. You should see the following screenshot for successful execution.

```

C:\Windows\System32\cmd.exe
(c) Microsoft Corporation. All rights reserved.

D:\erwin_Programs\Apache Software Foundation\Tomcat 9.0\webapps\erwinDISuite\WEB-INF>java -jar DIMigrator.jar
INFO - PATH ==> D:\erwin_Programs\Apache Software Foundation\Tomcat 9.0_Tomcat9046\webapps\erwinDIS11beta\WEB-INF
INFO - Connection Manager - Path: D:\erwin_Programs\Apache Software Foundation\Tomcat 9.0_Tomcat9046\webapps\erwinDIS11beta\WEB-INF\database\database.properties
INFO - HikariCP pool HikariPool-0 is starting.
INFO - Starting - DI Migration
INFO - Starting - database.properties migration
INFO - Ended - database.properties migration
INFO - Starting - CATs migration
INFO - Ended - CATs migration
INFO - Starting - Application Passwords migration
INFO - Ended - Application Passwords migration
INFO - Starting - Environment Passwords migration
INFO - Ended - Environment Passwords migration
INFO - Starting - Email Passwords migration
INFO - Ended - Email Passwords migration
INFO - Starting - Reports migration
INFO - Ended - Reports migration
INFO - Starting - User Image migration
INFO - Ended - User Image migration
INFO - Starting - CAT Option Mask Fields Migration
INFO - Ended - CAT Option Mask Fields migration
Jul 13, 2021 1:50:13 PM p a
INFO: Starting - Table DeclarationPath Hashcode generation
Jul 13, 2021 1:50:13 PM p a
INFO: Ended - Table DeclarationPath Hashcode generation
INFO - Ended - DI Migration

D:\erwin_Programs\Apache Software Foundation\Tomcat 9.0_Tomcat9046\webapps\erwinDIS11beta\WEB-INF>

```

****IMPORTANT**:** In case of any errors, please reach out to the erwin support team immediately.

13. Delete the **DIMigrator.jar** from *erwinDISuite/WEB-INF* folder.
14. Update the LDAP and SAML properties sections if you are using these additional configurations.
15. Start the Tomcat Server.
16. Login to the application.

Upgrading to the compatible Java 8x and Tomcat 9 versions

Step 1: Install Java

1. Download Java (AdoptOpen 8u282-b08) and finish the installation process.

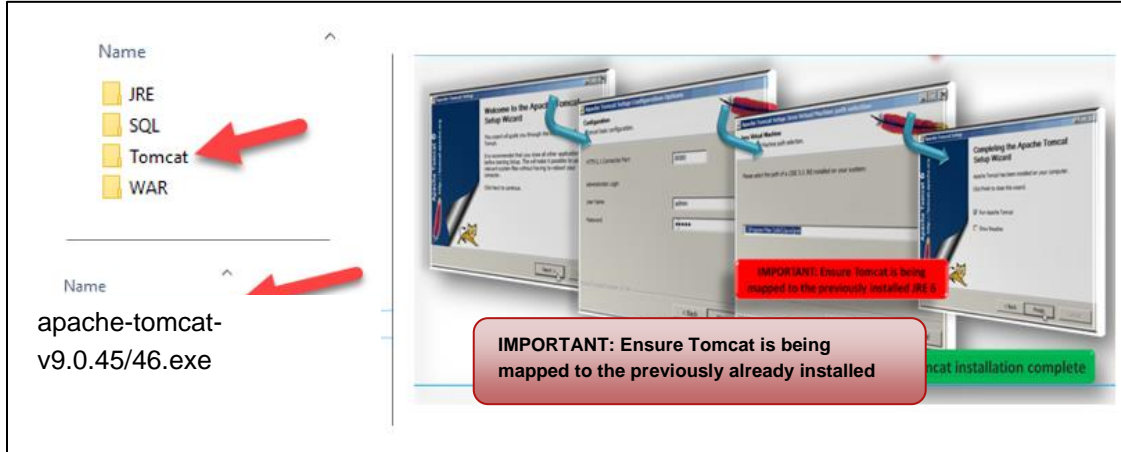
Link to download **AdoptOpen Java 8u282-b08** - <https://adoptopenjdk.net/archive.html>

Step 2: Installing Tomcat & creating the database schema for the application

1. To start installation double click on \Tomcat\apache-tomcat- v9.0.45/46.exe. You will see the welcome screen. Click on the Next button to continue the installation process.
2. Choose the port number on which you want to run the tomcat server. Tomcat uses 8080 as its default port (you can provide any other port number if 8080 is already being used)
3. Enter Admin User ID and password for Tomcat (default: admin/admin)

On the Java Virtual Machine selection window, select the path to the JRE/Java 8 folder

Note:** If there is more than one version of JRE installed, Ensure Tomcat is being mapped to the JRE8 version previously installed.



After successful installation, a shortcut icon to start the tomcat server appears in the icon tray of the task bar as shown below. Double clicking the icon, displays the window of Apache Manager for Tomcat. It might show the “Startup type” as manual (if you change default installation Location)



Configuring Tomcat Memory settings for optimum performance

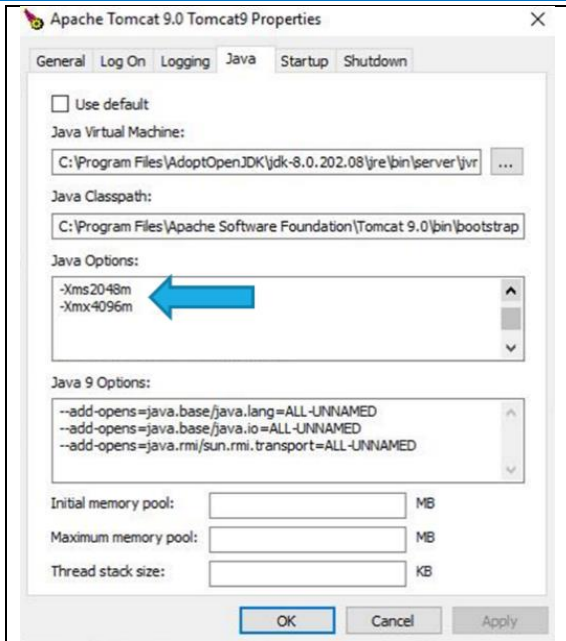
After installing tomcat, modify the tomcat memory settings as described below to achieve optimum AMM performance.

Settings:

1. If you are using the normal tomcat installation and Tomcat manager then set the memory related values as shown in the Tomcat → Java → Java Options window

Copy the 2 lines in blue below (based on whether the tomcat is 32 or 64 bit) and paste these 2 lines at the end of the existing lines in the Java Options window.

64 BIT TOMCAT
-Xms2048m -Xmx4096m



****IMPORTANT NOTE**:** Ensure that the “Initial memory pool” & “Maximum memory pool” values are empty. If values exist in these 2 fields, delete the values i.e. set to empty and click the “Apply” button

2. If using an alternate Tomcat zip installation (startup.bat)

Add the following line to the **catalina.bat** (Windows) or **catalina.sh** (Unix) file as the first line in the file.

catalina.bat:

=====

32 Bit: set CATALINA_OPTS=%CATALINA_OPTS% -Xms1024m -Xmx1536m

64 bit: set CATALINA_OPTS=%CATALINA_OPTS% -Xms2048m -Xmx4096m

catalina.sh

=====

32 Bit: CATALINA_OPTS="\$CATALINA_OPTS -Xms1024m -Xmx1536m"

64 Bit: CATALINA_OPTS="\$CATALINA_OPTS -Xms2048m -Xmx4096m"