

# X/P Messenger 4.6 Migration Guide

---

Version: 1

Datum: 17-Oct-2024

## Copyright Notice

This document is the confidential and proprietary information of PONTON GmbH ("Confidential Information"). You shall not disclose such Confidential Information and shall use it only in accordance with the terms of the license agreement you entered into with PONTON GmbH.



## Table of Contents

1	Requirements .....	3
2	Preparation .....	3
3	Windows .....	3
4	Linux .....	3
5	Messenger Private Agreement .....	3
6	Messenger Partner Folder .....	3
7	Messenger Config Folder .....	4
8	Database Driver .....	4
9	Database Update (since version 4.6.0) .....	5
10	Archive and Archive_Failed .....	6
11	Config Patch Installation (optional) .....	6
12	Finalize .....	7
13	REST API Modifications .....	7

## 1 Requirements

1. X/P Messenger older than 3.7.0 is installed.

## 2 Preparation

1. Stop the old messenger instance.

## 3 Windows

1. Uninstall the messenger Windows Service with the uninstallService.bat script.
2. Unpack PontonXP-4.4.x-Windows.zip in a new folder.
3. Adjust the windows service configuration file based on the old installation:  
Take the following values from the old installation (see \ServiceInstaller\wrapper.conf or \launcher\conf\wrapper.conf):

```
# Maximum Java Heap Size (in MB)
wrapper.java.maxmemory=512
# Name of the service
wrapper.ntservice.name=pontonxpmessenger
# Display name of the service
wrapper.ntservice.displayname=Ponton X/P Messenger
```

and put them to the new installation (see \launcher\conf\wrapper.conf):


```
# Maximum Java Heap Size (in MB)
set.MAX_MEMORY=512
# Name of the service
set.NTSERVICE_NAME=pontonxpmessenger
# Display name of the service
set.NTSERVICE_DISPLAYNAME=Ponton X/P Messenger
```

4. Finally install the Windows Service using the „installService.bat“ script.

## 4 Linux

1. Unpack PontonXP-4.4.x-Linux.zip in a new folder.
2. Check that the script file 'pontonxp' is executable. If it is not executable change the permissions with "chmod 755 pontonxp".
3. The script file 'pontonxp' needs to be adjusted when the standard autostart mechanism of the operation system is used. There are comments for these parameters in the script file.

## 5 Messenger Private Agreement

 If the file privateagreement.vm exists in the old installation (see \xmlpipe\config\partneragreement\private\privateagreement.vm) please contact the support team.

## 6 Messenger Partner Folder

The partner folder of the old installation (see \xmlpipe\config\partnerprofiles\) has to be copied to the new installation (see \config\partnerprofiles\).

## 7 Messenger Config Folder

The configuration following files of the old installation (see \xmlpipe\config\) has to be copied to the new installation (see \config\):

- hotfolder.xml
- messenger.xml
- server.xml
- keystore
- tomcat-users.xml

Adjust the server.xml by changing the two keystore paths at the SSL block to:


```
<SSL>
  <Keystore>$XP_CONFIG_FOLDER/keystore-ssl</Keystore>
  ...
  <ClientAuthKeystore>$XP_CONFIG_FOLDER/keystore-ssl</ClientAuthKeystore>
  ...
</SSL>
```

## 8 Database Driver

Due to the upgrade to JAVA >= 17 the latest database drivers must be used.

Copy the database driver to the folder \lib\_ext\.

Depending on the used database the **URL** in the messenger.xml must be updated with right values.  Values for "SERVER" and "DBNAME" must be replaced with the values of the old installation.

 Dialect and DriverClass do not need to be specified manually, since they are identified automatically by the messenger application.

**MSSQL:** JDBC driver 12.4.2.jre11 <https://go.microsoft.com/fwlink/?linkid=2247576>

```
<Database>
  <Dialect>SQLServer2012</Dialect>
  <DriverClass>com.microsoft.sqlserver.jdbc.SQLServerDriver</DriverClass>

  <URL>jdbc:sqlserver://SERVER:1433;database=DBNAME;encrypt=true;trustServerCertificate=true</URL>
  ...
</Database>
```

*Code Block 1 messenger.xml*

**Oracle:** JDBC driver 23.3.0.23.09 [https://download.oracle.com/otn-pub/otn\\_software/jdbc/233/ojdbc11.jar](https://download.oracle.com/otn-pub/otn_software/jdbc/233/ojdbc11.jar)

```

<Database>
  <Dialect>Oracle12c</Dialect>
  <DriverClass>oracle.jdbc.driver.OracleDriver</DriverClass>
  <URL>jdbc:oracle:thin:@SERVER:1521:DBNAME</URL>
  ...
</Database>

```

Code Block 2 messenger.xml

**MySQL:** JDBC driver 8.3.0 <https://dev.mysql.com/downloads/connector/j/8.3.html>

```

<Database>
  <Dialect>MySQL55</Dialect>
  <DriverClass>com.mysql.cj.jdbc.Driver</DriverClass>

  <URL>jdbc:mysql://SERVER:3306/DBNAME?autoReconnect=true&useSSL=true&allowPublicKeyRetrieval=true</URL>
  ...
</Database>

```

Code Block 3 messenger.xml

## 9 Database Update (since version 4.6.0)

Since PONTON X/P Messenger 4.6.0 the structure of database is checked on startup and updated, if necessary. For this the assign database user needs admin rights on database, to create/update/drop tables, sequences, indices and foreign keys. During "normal" operation mode, the admin rights are not required anymore.

During setup of PONTON X/P Messenger a shell-script is installed (**sql/dbupdateTool.bat** (Windows-Batch) or **sql/dbupdateTool** (Linux Bash-Script)). This script scan be used to get current structural status of database and run the update manually. This script supports the following command parameters:

parameter	descriptipn
status	Prints a list of undeployed changesets, which will be deployed during update process.
update	Runs the structural update of database, manually.
updateScript	Generates a native SQL Script, containing all required structural updates for current Messenger DB. This can be executed manually by database admin f.e. This is the recommended way to update the database, if the database user Messenger uses, doesn't have admin rights on database.
snapshot	Dumps a snapshot of current database structure. This contains a description of all database objects, but no content.
listLocks	List currently locked database objects. This may happen, if a update process fails.
releaseLocks	Releases all locked database objects, to rerun update process after failure. This command should NOT be used thoughtless. If structural update of database fails, the case and the current state of database must be analyzed properly to return to a consistent database again.



### Example

```
cd ./sql
./dbupdateTool update
Start update of DB structure on
jdbc:hsqldb:file://Users/jah/git/messenger/xpmessenger/target/dist/data/database/xpms
glog
Juli 26, 2024 10:07:43 AM liquibase.database
INFORMATION: Set default schema name to PUBLIC
Juli 26, 2024 10:07:43 AM liquibase.changelog
INFORMATION: Reading from PUBLIC.DATABASECHANGELOG
Database is up to date, no changesets to execute
Juli 26, 2024 10:07:43 AM liquibase.changelog
INFORMATION: Reading from PUBLIC.DATABASECHANGELOG

UPDATE SUMMARY
Run: 0
Previously run: 30
Filtered out: 0
-----
Total change sets: 30

Juli 26, 2024 10:07:43 AM liquibase.util
INFORMATION: UPDATE SUMMARY
Juli 26, 2024 10:07:43 AM liquibase.util
INFORMATION: Run: 0
Juli 26, 2024 10:07:43 AM liquibase.util
INFORMATION: Previously run: 30
Juli 26, 2024 10:07:43 AM liquibase.util
INFORMATION: Filtered out: 0
Juli 26, 2024 10:07:43 AM liquibase.util
INFORMATION: -----
Juli 26, 2024 10:07:43 AM liquibase.util
INFORMATION: Total change sets: 30
Juli 26, 2024 10:07:43 AM liquibase.util
INFORMATION: Update summary generated
Juli 26, 2024 10:07:44 AM liquibase.lockservice
INFORMATION: Successfully released change log lock
Juli 26, 2024 10:07:44 AM liquibase.command
INFORMATION: Command execution complete
```

Code Block 4 dbupdateTool update

## 10 Archive and Archive\_Failed

By default the message archive is stored in the folder „\xmlpipe\archive“ and “\xmlpipe\archive\_failed”. If these default paths are used, then these folders need to be moved (or copied) to the new installation “\data” (e.g \data\archive), otherwise the used archive paths need to be set using the Messenger GUI.

## 11 Config Patch Installation (optional)

After preparation of the new installation, copy the needed config patch (patch.jar) to the folder \update\ and all needed configuration files to the config folder. Then start the messenger to install the patch.

## 12 Finalize

On the Windows machine use Windows Services dialog to start or stop the messenger.

On the Unix systems use the script file 'pontonxp' to start or stop the messenger.

Verify in the log file /data/log/wrapper.log that the startup was successful. You should see a message:

```
Ponton X/P Messenger V4.5.x is initialized.
```

*Code Block 5 wrapper.log*

## 13 REST API Modifications

**i** A complete list of all available API endpoints and details of each of them can be found under [http\(s\)://<messenger\\_host>:<messenger\\_port>/api/swagger-ui](http(s)://<messenger_host>:<messenger_port>/api/swagger-ui) once you install the messenger on your machine.

The following list shows the modifications made to the REST API in the current messenger version:

REST Endpoint	Modification Type	Description
GET /ca/subCANames	Added	Get all Sub-CA names (Relevant for AS4-BDEW)
GET /clientRoles	Added	Get all the available roles
PUT /clientRoles	Added	Modify all client roles
DELETE /listener/certificate/{id}	Added	Delete a specific listener server certificate
GET /listener/keypair	Removed	Get listener server SSL certificate private keys from PKCS12 Keystore
GET /listener/keypair/{id}	Added	Get a specific listener server SSL certificate private key from PKCS12 Keystore
GET /listener/certificate/{id}	Added	Get a specific listener server SSL certificate
POST /listener/keypair	Added	Install listener server SSL certificate private



REST Endpoint	Modification Type	Description
		key into PKCS12 Keystore
POST /listener/certificate	Added	Import a specific listener server SSL certificate
PUT /listener/keypair	Removed	Put listener server SSL certificate private key into PKCS12 Keystore
PUT /listener/certificate	Removed	Update a specific listener server SSL certificate
GET /configuration	Modified	Returns the messenger configuration (such as database, cleanup etc.)
PUT /configuration	Modified	Updates the messenger configuration
GET /partner/{partnerId}	Modified	Returns the details of a specific partner
GET /partner/	Modified	Returns the details of all available partners
POST /partner/{partnerId}	Modified	Creates a specific partner
PUT /partner/{partnerId}	Modified	Updates a specific partner
PUT /partner/remote/{partnerId}	Added	Updates a specific remote partner
PUT /partner/local/{partnerId}	Added	Updates a specific local partner
POST /partner/{partnerId}/requestBDEWCertificateBySubCA/{subCaName}	Added	Request and install AS4-BDEW certificates for a local partner from a specific Sub-CA



REST Endpoint	Modification Type	Description
GET /serverca/{id}	Modified	Get a specific server CA certificate
GET /serverca	Modified	Get all server CA certificates
POST /serverca	Modified	Save a server CA certificate
GET /server/certificate	Modified	Get the current server SSL certificate
GET /status/listener	Modified	Get the status of the listener
DELETE /userRoles/{id}	Added	Delete a specific user role
GET /userRoles/{id}	Added	Get the permissions assigned to a specific user role
GET /userRoles	Added	Get all the available user roles
GET /userRoles/systemRoles	Added	Get the list of system roles
GET /userRoles/permissions	Added	Get the permissions assigned to the respective user roles
POST /userRoles	Added	Create a user role
PUT /userRoles/{id}	Added	Update an existing user role
GET /user/permissions	Added	Get the list of permissions assigned to the user



PONTON GmbH  
Dorotheenstraße 64  
22301 Hamburg  
Germany

Web: <http://www.ponton.de>

LinkedIn <https://www.linkedin.com/company/ponton-consulting/>

