

X/P Messenger 5.2.1 Migration Guide

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It is absolutely crucial that you ensure that your message queue is empty (no messages in transit) before you update your Messenger.

Important: If a Listener is used with the Messenger, then the Listener has to be updated as well, so that both versions are the same.

1 MSSQL Database Usage

If you are using MSSQL database please ensure your data is consistent **before** updating.

Check for orphaned entries as follows:

```
-- 1. FILE_REF → FK_FILE_REF_MESSAGE (MESSAGE_ID → MESSAGE.ID)
SELECT COUNT(*) AS orphaned_FILE_REF
FROM FILE_REF fr
WHERE NOT EXISTS (SELECT 1 FROM MESSAGE m WHERE m.ID = fr.MESSAGE_ID);

-- 2. INBOUND_QUEUE → FK_INBOUND_QUEUE_MESSAGE (MESSAGE_ID → MESSAGE.ID)
SELECT COUNT(*) AS orphaned_INBOUND_QUEUE
FROM INBOUND_QUEUE iq
WHERE NOT EXISTS (SELECT 1 FROM MESSAGE m WHERE m.ID = iq.MESSAGE_ID);

-- 3. OUTBOUND_QUEUE → FK_OUTBOUND_QUEUE_MESSAGE (MESSAGE_ID → MESSAGE.ID)
SELECT COUNT(*) AS orphaned_OUTBOUND_QUEUE
FROM OUTBOUND_QUEUE oq
WHERE NOT EXISTS (SELECT 1 FROM MESSAGE m WHERE m.ID = oq.MESSAGE_ID);

-- 4. MDNDATA → FK_MDNDATA_MESSAGE (MESSAGE_ID → MESSAGE.ID)
SELECT COUNT(*) AS orphaned_MDNDATA
FROM MDNDATA md
WHERE NOT EXISTS (SELECT 1 FROM MESSAGE m WHERE m.ID = md.MESSAGE_ID);

-- 5. MESSAGE_LOG → FK_MESSAGE_LOG_MESSAGE (MESSAGE_ID → MESSAGE.ID)
SELECT COUNT(*) AS orphaned_MESSAGE_LOG
FROM MESSAGE_LOG ml
WHERE NOT EXISTS (SELECT 1 FROM MESSAGE m WHERE m.ID = ml.MESSAGE_ID);

-- 6. MESSAGE_WORK_DATA → FK_MESSAGE_WORK_DATA_MESSAGE (MESSAGE_ID → MESSAGE.ID)
SELECT COUNT(*) AS orphaned_MESSAGE_WORK_DATA
FROM MESSAGE_WORK_DATA mwd
WHERE NOT EXISTS (SELECT 1 FROM MESSAGE m WHERE m.ID = mwd.MESSAGE_ID);

-- 7. ARCHIVE_QUEUE → FK_MESSAGE_ARCHIVE_QUEUE_MESSAGE (MESSAGE_ID → MESSAGE.ID)
SELECT COUNT(*) AS orphaned_ARCHIVE_QUEUE
FROM ARCHIVE_QUEUE aq
WHERE NOT EXISTS (SELECT 1 FROM MESSAGE m WHERE m.ID = aq.MESSAGE_ID);

-- 8. MESSAGE_PROCESSING_DIRECTIVE → FK_MESSAGE_PROC_DIRECTIVE_MESSAGE (MESSAGE_ID → MESSAGE.ID)
SELECT COUNT(*) AS orphaned_MESSAGE_PROCESSING_DIRECTIVE
FROM MESSAGE_PROCESSING_DIRECTIVE mpd
WHERE NOT EXISTS (SELECT 1 FROM MESSAGE m WHERE m.ID = mpd.MESSAGE_ID);

-- 9. MESSAGE_MESSAGE
SELECT count(*) as orphaned_MESSAGE
FROM MESSAGE
WHERE REFERENCE_ID IS NOT NULL
AND REFERENCE_ID NOT IN (SELECT ID FROM MESSAGE);
```

In case the **SELECT** statements showed orphaned entries in your database, delete them with:

```
-- 1. FILE_REF
DELETE fr FROM FILE_REF fr
WHERE NOT EXISTS (SELECT 1 FROM MESSAGE m WHERE m.ID = fr.MESSAGE_ID);

-- 2. INBOUND_QUEUE
DELETE iq FROM INBOUND_QUEUE iq
WHERE NOT EXISTS (SELECT 1 FROM MESSAGE m WHERE m.ID = iq.MESSAGE_ID);

-- 3. OUTBOUND_QUEUE
DELETE oq FROM OUTBOUND_QUEUE oq
WHERE NOT EXISTS (SELECT 1 FROM MESSAGE m WHERE m.ID = oq.MESSAGE_ID);

-- 4. MDNDATA
DELETE md FROM MDNDATA md
WHERE NOT EXISTS (SELECT 1 FROM MESSAGE m WHERE m.ID = md.MESSAGE_ID);

-- 5. MESSAGE_LOG
DELETE ml FROM MESSAGE_LOG ml
WHERE NOT EXISTS (SELECT 1 FROM MESSAGE m WHERE m.ID = ml.MESSAGE_ID);

-- 6. MESSAGE_WORK_DATA
DELETE mwd FROM MESSAGE_WORK_DATA mwd
WHERE NOT EXISTS (SELECT 1 FROM MESSAGE m WHERE m.ID = mwd.MESSAGE_ID);

-- 7. ARCHIVE_QUEUE
DELETE aq FROM ARCHIVE_QUEUE aq
WHERE NOT EXISTS (SELECT 1 FROM MESSAGE m WHERE m.ID = aq.MESSAGE_ID);

-- 8. MESSAGE_PROCESSING_DIRECTIVE
DELETE mpd FROM MESSAGE_PROCESSING_DIRECTIVE mpd
WHERE NOT EXISTS (SELECT 1 FROM MESSAGE m WHERE m.ID = mpd.MESSAGE_ID);

-- 9. MESSAGE_MESSAGE
DELETE FROM MESSAGE
WHERE REFERENCE_ID IS NOT NULL
AND REFERENCE_ID NOT IN (SELECT ID FROM MESSAGE);
```

2 Updating a Messenger version 5.x.x to 5.2.1

update patch from 5.x.x to 5.2.1 including JRE 25.0.3
 (Windows): <https://www.ponton.de/downloads/xp/5.2.1/PontonXP-Messenger-5.2.1-Windows-patch.zip>

update patch from 5.x.x to 5.2.1 including JRE 25.0.3
 (Linux): <https://www.ponton.de/downloads/xp/5.2.1/PontonXP-Messenger-5.2.1-Linux-patch.zip>

1. stop the Messenger
2. extract the above patch zip file matching your operating system to the *update/* folder of the Messenger installation.
3. starting the Messenger will apply the patch to the installation.
4. **Optional:** Add properties for HeapDump in wrapper.conf

a.

```
wrapper.java.additional.<xx> = -XX:+HeapDumpOnOutOfMemoryError
wrapper.java.additional.<xx> = -XX:HeapDumpPath=%PONTONXP_HOME%/heapdump-
%p.hprof
```

Replace <xx> with sequential number, e.g.

```
wrapper.java.additional.13 = -XX:+HeapDumpOnOutOfMemoryError
wrapper.java.additional.14 = -XX:HeapDumpPath=%PONTONXP_HOME%/heapdump-
%p.hprof
```

-  If an OutOfMemory Exception occurs this properties ensure that a heap dump file is written and can be used to analyze the cause of the issue.
 Make sure to have enough disk space in Messenger home directory (the file will have same size as set .MAX_MEMORY property).

5. Existing addon- and config-patches will remain unchanged and will continue to work, so no additional action is required.
6. Please hard refresh your browser to clear the cache and download the new PONTON X/P GUI, e.g. for Windows as follows:
 - open the PONTON X/P GUI (default URL: <https://localhost:8443/>)
 - hold down Ctrl and press F5.

3 Migration from 4.6.x to 5.2.1

Enabling the import of X/P Messenger configuration and archived data from the previous messenger (= 4.6) installation.

-  For migrating existing configuration from an earlier messenger version (> 3.1 and < 4.6) please migrate to version 4.6. (see 'Config Migration (older versions) > Messenger Version < 3.1', 'Messenger Version 3.1 - 3.6' and 'Messenger Version 3.7 - 3.11') before migrating further to the latest messenger version.

3.1 Preparations

3.1.1 Windows:

1. Ensure your messenger is not processing outgoing or incoming messages currently! You can verify this on your dashboard.
 - a. Stop the old messenger instance (= XP_OLD).
2. Uninstall the messenger Windows Service with the uninstallService.bat script.
3. Unpack the latest messenger PontonXP-.x-Windows.zip instance (= XP_NEW) in a new folder.

Full distribution Messenger 5.2.1 with JRE 25.0.3 (Windows):
<https://www.ponton.de/downloads/xp/5.2.1/PontonXP-Messenger-5.2.1-Windows.zip>

Full distribution Listener 5.2.1 with JRE 25.0.3 (Windows):
<https://www.ponton.de/downloads/xp/5.2.1/PontonXP-Listener-5.2.1-Windows.zip>

3.1.2 Linux:

1. Ensure your messenger is not processing outgoing or incoming messages currently! You can verify this on your dashboard.
 - a. Stop the old messenger instance (= XP_OLD).
2. Unpack PontonXP-.x-Linux.zip in a new folder (= XP_NEW).
3. Check that the script file 'pontonxp' is executable. If it is not executable change the permissions with "chmod 755 pontonxp".

Full distribution Messenger 5.2.1 with JRE 25.0.3 (Linux):
<https://www.ponton.de/downloads/xp/5.2.1/PontonXP-Messenger-5.2.1-Linux.zip>

Full distribution Listener 5.2.1 with JRE 25.0.3 (Linux):
<https://www.ponton.de/downloads/xp/5.2.1/PontonXP-Listener-5.2.1-Linux.zip>

3.2 Steps

1. Copy and replace the following folders or files from the Installation Path of the old messenger (XP_OLD) into the Installation folder of new Messenger (XP_NEW)
 - a. XP_OLD/config
 - b. XP_OLD/data
 - c. XP_OLD/lib_ext
 - d. **Optional:** XP_OLD/addons
 - i.  This only applies if you are using specialized configurations such as for EDA, CMS, BDEW etc.
 - e. **Optional:** Externally located Archive and Archive Failed folders
 - i.  Please ensure to define the correct paths to your archive in the XP_NEW/config/messenger.xml if you are not using the defaults, which are situated directly under data.
 - f. Create a backup of your current database connected with the messenger.
 - g. Create a backup of the following folders in your filesystem:
 - i. XP_OLD/config
 - ii. XP_OLD/data
 - h.  Define the database as described under chapter “Database Connection” (see below in this guide)
 - i. **Optional:** Make necessary adjustments in the following files, if you have made customized changes in them under XP_OLD
 1. XP_OLD/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 (under XP_NEW\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
```

2. XP_NEW/config/log4j2.xml

3.2.1 Windows:

1. Finally install and run the Windows Service using the „installService.bat“ script provided under XP_NEW.
 - a.  The duration of this step depends on the data volume of your configuration to be imported into the DB.
2. Verify in the log file /data/log/wrapper.log that the startup was successful. You should see a message:

```
Ponton X/P Messenger V xyz is initialized.
```

-  A new activation will be required by your messenger.

3.2.2 Linux:

1. Finally run the pontonxp script provided under XP_NEW.
 - a.  The duration of this step depends on the data volume of your configuration to be imported into the DB.
2. Verify in the log file /data/log/wrapper.log that the startup was successful. You should see a message:

```
Ponton X/P Messenger V xyz is initialized.
```

-  A new activation will be required by your messenger.

3.2.3 Optional step (Adapters):

If you are using additional adapters such as:

- Binary Webservice Adapter
- EDA Webservice Adapter
- Other Adapters

Then, you will need to import the respective configurations as described in the section ‘Pluggable Adapter Settings’ in the User Guide.

Especially, while using SSL connection between the messenger and your EDA Webservice Adapter please ensure to include the following in your launcher\conf\wrapper.conf :

```

wrapper.java.additional.<NEXT_ID>=-
Djavax.net.ssl.trustStore=%XP_CONFIG_FOLDER%/keystore
wrapper.java.additional.<NEXT_ID>=-Djavax.net.ssl.trustStorePassword=randomPassword

```

 Please make sure that the XP_OLD/config/keystore file still exists in your messenger installation under XP_NEW/config/keystore.

Furthermore, if you have existing HTTP Adapters please follow these steps:

Set a new HTTP Adapter (as described in the section 'Http Adapter' of the User Guide) as per the existing settings from your httpadapter_<port>.properties file.

 Please note it requires a messenger restart for your additional adapter configurations to be effective.

3.2.4 Optional step (external Listener):

If you are using the external Ponton X/P Listener instead of the internal Listener, you need to update the external Listener as well.

- Copy and replace the following folder or files from the installation path of the old listener (XP_OLD) installation folder of new Listener (XP_NEW)
 - XP_OLD/config
- Inside the folder XP_NEW/config, the file "authorization.txt" needs to be deleted. It will be created again when the messenger is restarted. This is necessary since the updated messenger has a new instance-ID and thus can't authorize to the listener when this file exists.
- Start the Listener
- Restart the messenger

4 Database Update tool

new commands were added in the Database Update tool:

command	Description
list activations	Lists all activation records from messenger database.
deleteActivation #instanceAlias#	Deletes the activation record, defined by given instanceId, to allow startup of messenger with a license without enabled ClusterMode.
resetAdminAccount	Resets the 'xpadmin' account to factory settings. If user does not exist, it will be created.

more details on usage are found in chapter 22.3.6. Manual database setup/update here: https://www.ponton.de/downloads/xp/5.1.1/documents/MessengerDocumentation5_1_1.pdf

5 Database Connection

 In version > 3.7 the relevant database parameters are set in the file <XP_INSTALL_DIR>/config/messenger.xml. From there you need to copy the parameters for the URL, the user and the already encrypted password and put into the corresponding fields in the file /launcher/conf/wrapper.conf

wrapper.conf property	Environment Variable	Description	Default
-----------------------	----------------------	-------------	---------

			Value
set.default.DATABASE_URL=	DATABASE_URL	The JDBC-URL to connect (copy the value of Messenger/Database/URL from messenger.xml)	not defined
set.default.DATABASE_USER=	DATABASE_USER	The user for DB connection (copy the value of Messenger/Database/Authentication/Username from messenger.xml)	not defined
set.default.DATABASE_PASSWORD=	DATABASE_PASSWORD	The encrypted password of the user for DB connection (copy the value of Messenger/Database/Authentication/Password from messenger.xml)	not defined
set.default.DATABASE_CONNECTIONS_MIN=	DATABASE_CONNECTIONS_MIN	The minimum number of DB connections established	2
set.default.DATABASE_CONNECTIONS_MAX=	DATABASE_CONNECTIONS_MAX	The maximum number of DB connections established	100
set.default.DATABASE_CONNECTION_TIMEOUT=	DATABASE_CONNECTION_TIMEOUT	The maximum timeout for DB connection (in seconds)	300 (s)
set.default.DATABASE_LOGGING_SQL=	DATABASE_LOGGING_SQL	enable SQL logs (true/false)	false

5.1 Config Migration (older versions)

5.1.1 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.

5.1.2 Messenger Version < 3.1

Configurations from Messenger Versions older than 3.1 are not compatible with the current version. Please contact our helpdesk to discuss your upgrade path.

5.1.3 Messenger Version 3.1 - 3.6

The configuration files and database content are compatible with the Messenger version 4.6. However there was a change in the directory structure, therefore it is required to copy the old files to the correct folder as listed below:

- Copy and replace the following folders or files from the Installation Path of the old messenger (XP_OLD) into the Installation folder of new Messenger (XP_NEW)
- **Copy the Database Driver** file from the Installation path <XP_OLD>\xmllpipe\lib_ext into Installation path <XP_NEW>\lib_ext
- **Rename** the existing Config folder under Installation path <XP_NEW>\config into **config_NotInUse**
- **Copy the Config folder** from the <Installation path <XP_OLD>\xmllpipe\config into Installation path <XP_NEW>\config
- **Copy the Archive folder** from the <Installation path <XP_OLD>\xmllpipe\archive into Installation path <XP_NEW>\data\archive
- **Copy the Archive_failed** folder from the <Installation path <XP_OLD>\xmllpipe\archive_failed into Installation path <XP_NEW>\data\archive_failed
- **Copy the Hotfolder** folder from the <Installation path <XP_OLD>\xmllpipe\<hotfolder name> into Installation path <XP_NEW>\data\<hotfolder name>
- **edit the server.xml** file in the <XP_NEW>\config folder
 - 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>

```

- Search for <Service>GUI</Service> and replace it with <Service>REST</Service>
- Stop the old Messenger (XP_OLD)
- Start the new Messenger (XP_NEW)

5.1.4 Messenger Version 3.7 - 3.11

The configuration files and database content are compatible with the Messenger version 4.6. The following folders can be copied as needed :

- Copy and replace the following folders or files from the Installation Path of the old messenger (XP_OLD) into the Installation folder of new Messenger (XP_NEW)
- **Copy the Database Driver** file from the Installation path <XP_OLD>\lib_ext into Installation path <XP_NEW>\lib_ext
- **Rename** the existing Config folder under Installation path <XP_NEW>\config into **config_NotInUse**
- **Copy the Config folder** from the <Installation path <XP_OLD>\config into Installation path <XP_NEW>\config
- **Copy the Archive folder** from the <Installation path <XP_OLD>\data\archive into Installation path <XP_NEW>\data\archive
- **Copy the Archive_failed** folder from the <Installation path <XP_OLD>\data\archive_failed into Installation path <XP_NEW>\data\archive_failed
- **Copy the Hotfolder** folder from the <Installation path <XP_OLD>\data\<hotfolder name> into Installation path <XP_NEW>\data\<hotfolder name>
- **edit the server.xml** file in the <XP_NEW>\config folder
 - 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>
```

- Search for <Service>GUI</Service> and replace it with <Service>REST</Service>
- Stop the old Messenger (XP_OLD)
- Start the new Messenger (XP_NEW)

5.1.5 Messenger Version 4.0 and up to 4.5

The configuration files and database content are compatible with the Messenger version 4.6. The following folders can be copied as needed :

- Copy and replace the following folders or files from the Installation Path of the old messenger (XP_OLD) into the Installation folder of new Messenger (XP_NEW)
- **Copy the Database Driver** file from the Installation path <XP_OLD>\lib_ext into Installation path <XP_NEW>\lib_ext
- **Rename** the existing Config folder under Installation path <XP_NEW>\config into **config_NotInUse**
- **Copy the Config folder** from the <Installation path <XP_OLD>\config into Installation path <XP_NEW>\config
- **Copy the Archive folder** from the <Installation path <XP_OLD>\data\archive into Installation path <XP_NEW>\data\archive
- **Copy the Archive failed** folder from the <Installation path <XP_OLD>\data\archive_failed into Installation path <XP_NEW>\data\archive_failed
- **Copy the Hotfolder** folder from the <Installation path <XP_OLD>\data\<hotfolder name> into Installation path <XP_NEW>\data\<hotfolder name>
- Stop the old Messenger (XP_OLD)
- Start the new Messenger (XP_NEW)

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