



PONTON
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Hardware and System Requirements PONTON X/P Messenger 3.6.0

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1. Minimum system requirements

These are requirements for the software without any specific context, which might not match any stricter requirements on a system which is officially supported by a specific industry solution like EFETnet or papiNet!

These system requirements are valid for PONTON X/P Messenger 3.6.0 and higher Versions until PONTON has published new system requirements.

PONTON does not support the PONTON X/P Messenger on environments with versions of Operating Systems, Databases or Java Runtime which are not supported by the vendors.

Please contact the PONTON help desk via Email (xp-helpdesk@ponton.de) if you have a system environment, which is not mentioned as supported.

2. Hardware

Minimum hardware requirements for installing the Messenger are as follows:

Property	Value
Available Disk space for PONTON X/P Messenger	1 GB
Free RAM available for PONTON X/P Messenger	512 MB
Processor	Dual Core, 2 GHz

3. Operating Systems

PONTON X/P Messenger is compatible and supported with the following operating systems:

- Windows 2008 / Windows 2008 R2 Server
- Windows 2012 / Windows 2012 R2 Server
- Linux
 - Ubuntu 14.04 LTS
 - Debian 7 (Wheezy)
 - Debian 8 (Jessie)
 - Red Hat Enterprise Linux 6.x up to 7.1
 - Oracle Enterprise Linux 6.x up to 7.1

From customer installations PONTON X/P Messenger is known compatible with the following Operating Systems, but these environments are only limited supported by PONTON. PONTON may not resolve any problem on such an environment. The below mentioned requirements for the JAVA Runtime versions has to be fulfilled.

- IBM AIX

4. JAVA Runtime

PONTON X/P is a Java application and needs a JAVA Runtime (JRE) with Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files installed.

PONTON X/P Messenger is compatible and supported with the following JAVA Runtimes:

- Oracle Java SE 8

From customer installations PONTON X/P Messenger is known to be compatible with the following JAVA Runtimes, but these environments are only limited supported by PONTON. PONTON may not resolve any problem on such an environment.

- IBM Java SE 8

Refer to the documentation included with the JCE on how to update a JRE with the strong encryption files (not needed for the default Windows release).

5. Databases

PONTON X/P is delivered with an embedded **HSQL** database which may be used for **testing** purposes only! Please only use officially supported databases for **production** purposes.

PONTON X/P Messenger is compatible and supported with the following databases:

Database / Version	JDBC Driver
Oracle 11g Release 2 (version 11.2)	Oracle Thin Driver for 11g Release 2
Oracle 12c Release 1 (version 12.1)	Oracle Thin Driver for 12c Release 1
MS SQL Server 2014	JTDS Driver version 1.3.1 or higher Microsoft JDBC Driver 4.2 or higher
MS SQL Server 2014 SP1	JTDS Driver version 1.3.1 or higher Microsoft JDBC Driver 4.2 or higher
MS SQL Server 2016	JTDS Driver version 1.3.1 or higher Microsoft JDBC Driver 4.2 or higher
MySQL Version 5.5 up to Version 5.7 (with InnoDB Engine)	MySQL Connector/J

Furthermore PONTON X/P Messenger is known to be compatible with the following databases from customer installations, but these environments are only supported partially by PONTON. PONTON may not resolve any problem on such an environment.

- IBM DB2
- Sybase Adaptive Server Enterprise

Database performance considerations

The performance of the database is relevant for the performance of the PONTON X/P Messenger. For example the latency for receiving and sending messages is dependent on the performance of the database in use. Different databases use different locking strategies depending on their database configuration. Optimum setup of the database depends on the requirements such as the amount of messages transmitted (per time unit), the maximum rate at which messages are expected and how time-critical the message transmission is. Based upon these criteria following steps should be considered:

- The database settings have to be optimized or/and
- The limitations of the different databases

Hint: MySQL Database might not be the best choice for critical installations.

6. Supported Browsers

- Firefox ESR 31.x, ESR 38.x
- Firefox NON-ESR Versions 31.x up to 38.x

- Internet Explorer Version 9
- Internet Explorer Version 11

Other Browsers may be supported with minor restrictions.

7. Network

- The PONTON X/P Messenger supports only IPv4 environments.
- PONTON recommends Gigabit Ethernet in-house connections.
- PONTON recommends to use permanent internet connections and no dial up connections.

PONTON X/P uses several network ports. The following table shows the standard configuration, which can be changed in every individual installation:

Port	direction	Protocol	Remark
8080	inbound	http	Offered by X/P Messenger (adapter communication)
9000	outbound	https	Offered by the X/P Listener (websocket communication)
8443	inbound	http	Offered by X/P Messenger (admin-GUI)

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