



Digitize business processes successfully

Accelerate digital transformation with the X4 BPMS low code platform

X4 BPMS System Requirements

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Table of Contents

1 X4 Server	4
2 X4 Web Apps	5
3 X4 Designer	6
4 X4 BPMS and Keycloak - Compatibility Matrix	7

1 X4 Server

<p>Operating system</p>	<ul style="list-style-type: none"> • Microsoft Windows Server 2012, 2012 R2, 2016, 2019, 2022 • SUSE Linux Enterprise Server 15, Red Hat Enterprise Linux 8, Ubuntu Linux 18.04 LTS, Debian GNU/Linux 10.1 <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p>i</p> <ul style="list-style-type: none"> • If you want to use the X4 server in another environment, we will be glad to consult you. • Only 64-bit operating systems are supported (x86_64). • For security reasons, a hardened configuration of the X4 Server is required to use the X4 Proxy Server. Do not hesitate to contact us for advice. </div>
<p>Platform</p>	<ul style="list-style-type: none"> • Runtime environment: The X4 Server is based on the Java platform (Version 11.0.17+8). With Version 11, Azul Zulu 11.60.19 (Java 11(LTS)) is already included as runtime environment. • Application server: The X4 Server uses an integrated WildFly application server in version 27.0.1. • Authentication provider: The X4 Server uses the authentication provider Keycloak in version 19.0.1. • System database: The X4 Server requires a system database to manage runtime and authentication information. The following databases are supported: <ul style="list-style-type: none"> • Oracle (11g, 12c, 18c, 19c) • Microsoft SQL Server (2012 Service Pack 4, 2014 Service Pack 3, 2016 Service Pack 2, 2017) • PostgreSQL (11.5, 12.0) <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p>i</p> <ul style="list-style-type: none"> • If you have special requirements regarding the Java runtime environment or if you want to use an alternative application server for customer-specific adaptations, do not hesitate to contact us for advice. • If you want to use the X4 Server with a different version of the above database management systems, do not hesitate to contact us for advice. </div>
<p>Hardware requirements</p>	<ul style="list-style-type: none"> • At least 2 processor cores • At least 5 GB of free hard disk space • At least 8 GB RAM <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p>i</p> <p>Starting with a number of 500 processes to be executed, we recommend a system with at least 8 processor cores and 16 GB main memory, which must be available exclusively for X4 Server.</p> </div>

2 X4 Web Apps

Operating system	X4 Web Apps are cross-platform usable via browser.
Platform	<p>Current browser (also mobile) with enabled JavaScript:</p> <ul style="list-style-type: none">• Google Chrome (latest version)• Mozilla Firefox (latest version and extended support release (ESR))• Microsoft Edge (last 2 major versions)• Apple Safari (last 2 major versions) <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"><p> Microsoft Internet Explorer and Microsoft Edge ("Project Spartan") are discontinued by Microsoft. Please switch to Microsoft Edge (Chromium-Based) or any other compatible browser.</p></div>

3 X4 Designer

<p>Operating system</p>	<ul style="list-style-type: none"> • Microsoft Windows 8.1, 10 (since version 1803), 11 • Microsoft Windows Server 2012, 2012 R2, 2016, 2019, 2022 <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p>i</p> <ul style="list-style-type: none"> • Only 64-bit operating systems are supported (x86_64). • Only Windows operating systems allowing the execution of desktop applications are supported. Core versions of Microsoft Windows Server are not supported. • Desktop virtualization solutions (e.g. Citrix XenDesktop or Citrix XenApp) are not officially supported. However, some customers are using X4 Designer in environments like these. Do not hesitate to contact us for advice. </div>
<p>Platform</p>	<p>Runtime environment</p> <p>The X4 Designer is based on the Java platform (Version 11.0.17+8). With version 11, Azul Zulu 11.60.19 (Java 11 (LTS)) is already integrated as runtime environment.</p>
<p>Hardware requirements</p>	<ul style="list-style-type: none"> • At least 2 processor cores • At least 2 GB free hard disk space • At least 8 GB RAM

4 X4 BPMS and Keycloak - Compatibility Matrix

Please refer to the following overview for information on the compatibility of various X4 BPMS and Keycloak versions:

	Keycloak 16.x	Keycloak 17.x	Keycloak 18.x	Keycloak 19.x
X4 BPMS 7.0.x	✓	✓	✓	✓
X4 BPMS 7.1.x	✓	✓	✓	✓
X4 BPMS 7.2.x	✓	✓	✓	✓
X4 BPMS 7.3.x	✓	✓	✓	✓

For more information on the Keycloak authentication provider, please see the Keycloak chapter in the Administration Guide.