



Sage X3

# Sage X3 Technical Stack: Planned Changes

May 2022

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# Introduction

This document provides you with an overview of planned changes to the Sage X3 technical platform in version 12, including current versions of technical components and database systems, and planned upgrades and deprecations.

Dates mentioned in this document may be subject to change.

**Please note this document may be updated periodically and we recommend you check for updates.** This document will be updated quarterly, in line with each Sage X3 Version 12 quarterly update release.

Please refer to the [Sage X3 online help center Prerequisites Overview](#) for current conformance and compliance information for all supported versions of Sage X3. Please also refer to the release notes on the [Sage X3 online help](#).

# Disclaimer

Sage aims to provide compatibility between Sage X3 Version 12 releases currently in maintenance as per the Sage X3 Lifecycle Policy and currently maintained releases or versions of third-party components.

Please note there may be a delay between the market availability of a third-party component and its integration with Sage X3 to ensure appropriate testing. We also generally maintain compatibility with the prior release of third-party components to allow you to manage a smooth transition.

Should a vendor or supplier deprecate or remove a component, solution or technology from the market, Sage will make every effort to deliver a replacement technology with an equivalent scope. However, with the change in technologies there may be a change in behavior of the Sage X3 solution. Where this is the case, Sage will make every effort to document such changes.

For Sage X3 Version 11, compatibility with the latest release of third-party components is not ensured, however, Sage makes best efforts to ensure that a currently maintained release of every third-party technical component is compatible with Sage X3 Version 11. This will ensure that security fixes are available for any third-party component for which a security flaw has been announced and fixed. Please note that the updating of third-party components may require you to adopt the most recent patch level of Sage X3 Version 11. For supported versions please refer to the [Sage X3 online help center Prerequisites Overview](#).

# Operating Systems

## Sage X3 Version 12 currently supported operating systems

	2012 for upgrade and compatibility only
Windows Server	2016
	2019 since release 2020 R2
Red Hat Enterprise Linux	7.x (7.5 or later is recommended) 8.x (8.3 recommended)
Oracle Enterprise Linux	7.x (7.5 or later is recommended)

Please refer to [Sage X3 online help center Prerequisites Overview](#) for more detail on currently supported operating systems.

## Microsoft Windows Server

- Windows Server 2012 will no longer be supported from the release of Sage X3 2021 R3. Note: Microsoft transitioned Windows Server 2012 from mainstream maintenance to extended support in April 2018, and extended support ends in October 2023.
- Microsoft announced in September 2021 that [Windows Server 2022 is now generally available](#). Sage is currently working to validate the compatibility of Windows server 2022 with Sage X3 Version 12. We plan to have completed validation of Windows Server 2022 during the 3rd quarter of 2022. Please check [Sage X3 online help center Prerequisites Overview](#) for the current status.

## Red Hat Enterprise Linux

- Sage X3 Version 12 2021 R3 is compatible for both Red Hat 7 (7.7 or later is recommended) and Red Hat 8.3.
- Red Hat announced the end of life of Red Hat 7.7 at the end of August 2021, and the end of life for Red Hat 7.9 in 2024. Sage plans to deliver a release of the Sage X3 platform that uses native RedHat 8 components in 2023. This version of Sage X3 will not be compatible with Linux Red Hat 7.

# Databases

## Sage X3 Version 12 currently supported database systems

	2012 for upgrade and compatibility only
Windows Server	2016
	2019 since release 2020 R2
ORACLE	12C R1 AND R2 SE2, EE
	19c SE2, EE since release 2020 R2
	3.4.16 SINCE RELEASE 2018 R7
	3.6 since release 2019 R5
MONGODB	4.0 SINCE RELEASE 2020 R3
	4.2 since release 2020 R4
	4.4 SINCE RELEASE 2022 R1

Please refer to [Sage X3 online help center Prerequisites Overview](#) for more detail on currently supported operating systems.

## Microsoft SQL Server

- Microsoft SQL Server 2012 is no longer supported with Sage X3.  
Note: Microsoft transitioned SQL Server 2012 from mainstream maintenance to extended support in November 2017, and extended support ends in December 2022.

## MongoDB

- Sage has validated the compatibility of MongoDB 4.4 with the release of Sage X3 Version 2022 R1.
- Support of MongoDB 3.6 ends in April 2021, and Sage will no longer ensure the compatibility with this release in Sage X3 Version 2021 R2 or later.

# Servers, Frameworks, and Middleware

Sage X3 Version 12 currently supported servers, frameworks, and middleware

Node.js	8.11 to 14.0.0
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ELASTICSEARCH	6.4 SINCE RELEASE 2019 R3/V12.0.18
	6.8.22 since release 2020 R1/V12.0.21
	7.16.2 SINCE RELEASE 2020 R4/V12.0.24

Please refer to [Sage X3 online help center Prerequisites Overview](#) for more detail on currently supported operating systems.

## Node.js

- Note: Earlier versions of node.js up to including node.js version 6.x and node.js version 8.x are no longer maintained and node.js version 8.11.3 is for upgrade and compatibility and upgrade purposes only.

## Java Bridge

- From 31<sup>st</sup> July 2022, the Java Bridge component will no longer be delivered or supported with Sage X3 Version 12. Sage strongly recommends that if you are currently using the Java Bridge component you start your transition to alternate integration methods.
- Note: Java Bridge is a component that facilitates integration with your Sage X3 solution. Java Bridge has been available prior to the release of Sage X3 Version 6; however, this has now largely been replaced by other integration methods such as REST http calls (introduced with Sage X3 from Version 7).
- The only case where the Java Bridge is still relevant is when you want to call outgoing SOAP web services. Today, the market is moving to more modern alternatives of web services. Note: Major vendors such as Microsoft, Google have already moved away from SOAP web services.

# Other components

## Adobe Flash

- Adobe Flash reached end-of-life on 31st December 2020 and is no longer updated or distributed. Sage X3 previously used Flash in the Visual Process Editor and the CRM Calendar. With the release of Sage X3 version 12 2020 R3 and later Flash is no longer used by Sage X3. For more information regarding the replacement of Flash please refer to Sage City, contact your local Sage Customer Support team, your Partner or Sage Account Manager.

## SAP Business Objects

- As of 1<sup>st</sup> January 2021, Sage no longer sells SAP Business Objects licenses. Any customer requiring SAP Business Objects licenses must acquire the required licenses directly from SAP or an SAP partner.
- In addition, as of 1st of January 2022, Sage will no longer sell components related to SAP Business Objects, specifically data marts, the associated dictionaries, and the data mart synchronization tools.
- Plans for the ongoing maintenance and support of such components will be communicated in the later part of 2021.

## Apache

- Sage has replaced the usage of Apache in the application server, with a native file transfer service, from release 2022 R2. There is no impact on existing Sage X3 instances, and no impact on Sage X3 features, but this will simplify the deployment, management, and security of the Sage X3 application by reducing the number of 3<sup>rd</sup> party components. Switching Apache off is *optional* however, and you may still chose to use Apache when configuring a Sage X3 application.
- NOTE: Instances using the legacy VT WebServer, the legacy JavaBridge, or the Sage X3 Business Objects component, *will still need to use Apache with the application server.*

## Microsoft Office plugin

- The Microsoft Office plugin has been upgraded to use Edge libraries instead of Internet Explorer libraries. Microsoft plans to deprecate Internet Explorer and replace it with Edge in mid-June 2022. With the release of Sage X3 2022 R1, new plugins (for Outlook, Excel, and Word) are available that use the new Edge libraries.
  - The Outlook plugin features enhanced security with a connection through the Syracuse web server. There are no further changes for users, apart from the set up part that is slightly different.
  - The Excel and Word plugin have been reviewed to improve the user experience.
  - The PowerPoint plugin is no longer available.

For more information on the new plugins, please refer to the [Sage X3 Online help center](#).

## Rich Texts in Sage X3

Microsoft no longer supports the RTF rich-text format, and has not delivered updates since 2008, only providing partial support in the latest Microsoft Office products.

RTF has been used as the storage format in Sage X3 for backward compatibility, and the translation back and forth between RTF (storage format) and HTML (display format) has caused issues, mainly differences between the texts as they are seen in an X3 screen, and as they are rendered in a Crystal Reports document.

That is why Sage plans to change the format used for rich texts in Sage X3 from RTF to HTML. This is planned for delivery in Sage X3 2022 R3 (Q3 2022), and in that release customers will be able to *optionnally choose* to switch to HTML rich texts.

This change will be managed by a global option in the Sage X3 Web Server (Syracuse).

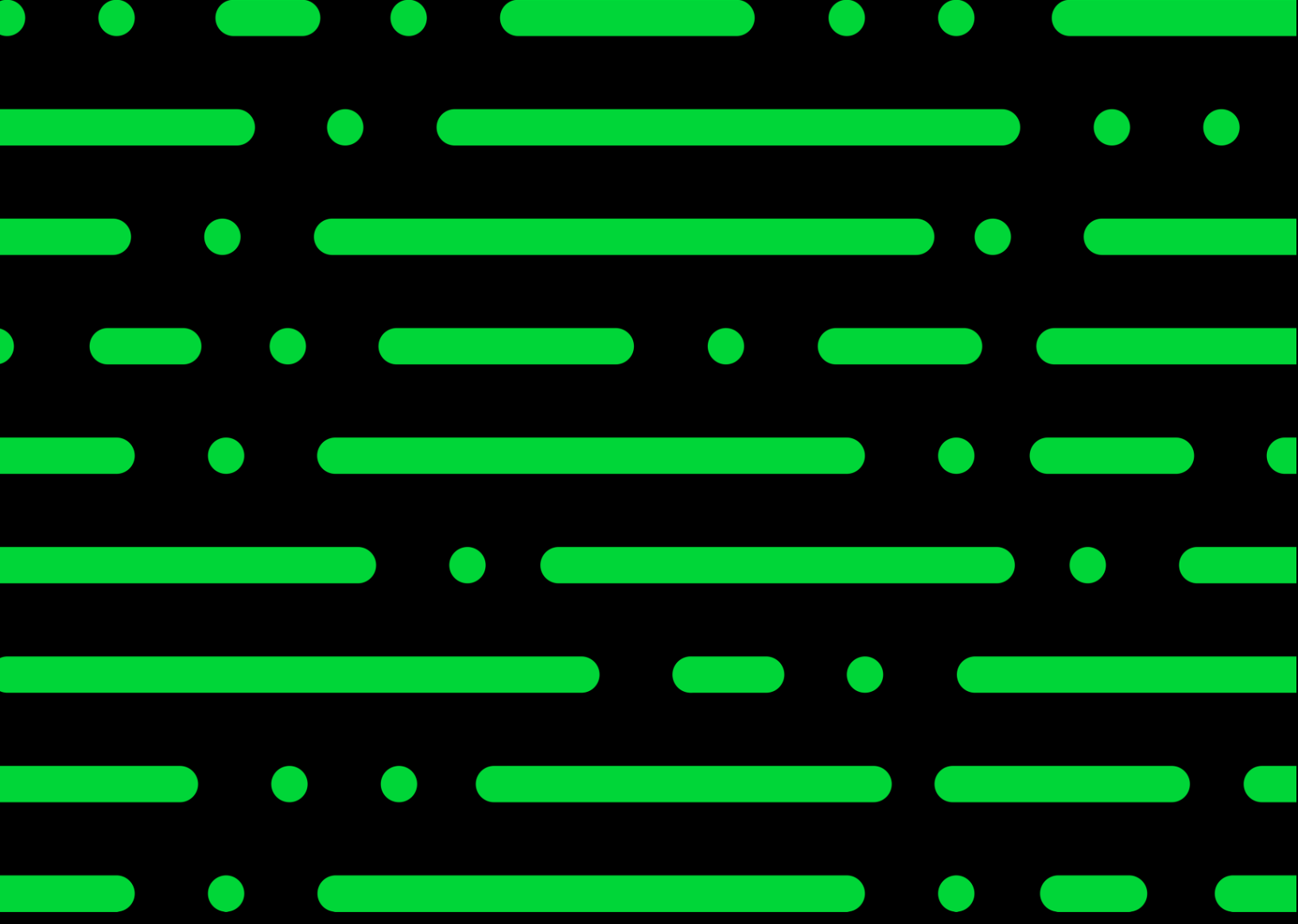
Once that switch is activated, any rich text that is modified or created will be stored as HTML. Existing, non-modified texts will remain in RTF format unless they are modified or saved again.

Sage has modified all standard reports delivered with Sage X3 to handle this modification and print both formats (RTF and HTML), as needed.

Custom reports developed by partners or customers will need to be modified as well. Sage will issue recommendations on how to implement those changes, and more information on this transition to HTML, prior to release 2022 R3.

It is important to note that this transition is optional. Customers may choose to keep using RTF. Sage strongly recommends to plan this transition as soon as possible, however, as it will resolve conversion issues between RTF and HTML.





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