

Enhance Sage X3 performance and scalability

Enhancing high availability Print server

*Sage X3 V12
Release 2021 R2*

Revised April 2021



The purpose of this document is to detail the enhancements done on the print server to take in account the application cluster (also known as multi-main runtime) feature that has been delivered in 2021 R1.

Your feedback and questions are important

Your feedback is valuable. If you have questions not covered in this document, please contact Sage Customer Support.

Contents

Application cluster - reminder.....	3
Evolution on print server	3

Application cluster - reminder

In previous releases of Sage X3, scaling the system was possible by adding small inexpensive servers to the configuration rather than expanding a unique expensive server. To do this, we had to distinguish two different kind of runtimes:

- A main runtime that was managing the access to the folder hierarchy and execute X3 processes. This main runtime was located on the biggest server.
- Additional runtimes that were used to execute X3 processes as well. These runtimes (called secondary runtimes) were located on smaller servers.

The release 2021 R1 introduces the ability to have all runtimes acting as main runtimes, which allows eliminating a single point of failure, and gives a better and homogeneous response time to all runtimes. This configuration is known as “application cluster”.

Evolution on print server

So far, the print server was still getting the reports he needs to print from a unique fixed server (the one that was the main server in the previous architecture). This means that this server was still a unique point of failure regarding the printing process: when this server went down, the print server was no more able to operate.

In 2020 R2, we bring the following evolution: the print server now requests the resources he needs to operate from the application server that requested the print. This means that if one of the servers in the application cluster architecture fails, all the remaining servers will still be able to print reports if one of the print servers remain active.