



# Switch 25.07

What's new?



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## General

### Before you upgrade

We strongly recommend backing up the Switch application data root before starting Switch for the first time after upgrading.

Please check out the paragraph on MongoDB upgrade and the [hardware requirements](#). All users should check whether the AVX2/FMA3 instructions are available on the machine.

### Release schedule

As indicated by the name change, Switch is now aligning with the release schedule of other Enfocus products. Moving forward, the product names Switch Spring and Fall will not be used anymore.

We will be releasing a Switch 25.11 later this year. As of 2026, Switch will have 3 release slots; one in March, July and November.

## Node.js improvements

### Improved Node.js script executor stability

To enhance the stability and performance of the Node.js script execution environment, we have implemented an optimized cleanup logic for Node.js script executors.

Switch runs legacy and Node.js scripts in separate 'script executors', which are reused or newly started as needed. When a script is executed, Switch finds or starts an executor and transfers the script and required data for processing.

#### Node.js script executors are now terminated if they:

- Have been idle for 5 minutes
- Reach 5000 processed tasks
- Consume 150Mb of memory
- Reach 1024 open file handles

**Automatic executor replacement** has been added to the Node.js environment in this version. This will prevent executors keeping resources open which can lead to errors and unexpected behavior.



This improvement helps to reduce memory leaks, improves resource efficiency and enhance the overall reliability of Switch, which further helps prevent 'Socket Hangup' and 'Process stopped unexpectedly' errors.

## Improved reliability under heavy load

Switch 25.07 includes internal communication improvements which prevent 'Socket Hangup' and 'ECONNRESET' errors that could occur under heavy load during Node.js script execution.

### Key improvements:

- **Enhanced monitoring and retry handling** for socket-based communication
- **Enhanced monitoring and error handling for HTTP agents** to prevent job failures

These changes significantly improve the stability of Node.js scripting in Switch under higher loads or when processing long-running tasks.

## Optimized Node.js script processing

A new bundling optimization has been implemented to improve script execution efficiency and performance.

For the Node.js-savvy script writers: ES modules were already supported by processing the packages, but now this step has been optimized by skipping the packages that do not use them.

## Better overall performance

### Qt 6.3 upgrade

Switch 25.07 is now powered by Qt 6.3, bringing better performance, stability and long-term support. Qt serves as the framework not only for creating the graphical user interfaces in Switch but for many other parts of the application, including the QSA engine behind legacy scripting.

With this upgrade, Switch is now **natively supported on Apple Silicon (ARM)**, eliminating the dependency on Apple's Rosetta 2.

On Apple Silicon processors, the option to render HTML in Designer is now available in the User interface Preferences. When enabled, the Message Panel and the Script Expression Editor open within the Designer window instead of launching in the browser.



### Key improvements:

- **Faster & smoother UI** – Improved responsiveness and high-DPI display support
- **Optimized performance** – Better memory management and graphics rendering
- **Enhanced cross-platform support** – Runs efficiently on Windows and macOS, including Apple Silicon

### Qt6 Migration Changes:

- **Regular Expression Compatibility** – With the migration from Qt 5 to Qt 6, the underlying regular expression engine has been upgraded from **PCRE1** to **PCRE2**. PCRE2 enforces stricter syntax rules compared to PCRE1. As a result, some patterns that were previously accepted (such as shorthand quantifiers like `{n}`) are **no longer valid and must be updated** to conform to PCRE2's syntax. This change is expected and aligns with Qt's move to a standards-compliant regex engine.
- **XML Validation** – XML handling in Qt 6 has become more stringent, with the parser now strictly enforcing XML compliance. As a result, any flow properties or configurations containing invalid XML characters will be rejected. To address this, we are proactively sanitizing existing XML content by removing non-compliant characters to ensure compatibility and prevent parsing errors.

## MongoDB 8.0 upgrade

Switch 25.07 now runs on MongoDB 8.0, resulting in better database performance and more robust security. This has an impact on overall speed and efficiency when processing jobs.

Please note that MongoDB 8.0 on Windows requires a **CPU with AVX2 support**, which is the case for most recent hardware.

### Key improvements:

- **Faster data processing** – Optimized querying and resource efficiency
- **Improved reliability** – Better indexing and transaction handling
- **Enhanced compatibility** – Supports the latest database features and Mac ARM binary

### Hardware Compatibility:

**macOS (Apple Silicon / arm64):**

Native **arm64 MongoDB v8 binaries** are available and run fine. These use **ARMv8.2-A features** instead of AVX2/FMA3, so Intel-only requirements don't apply.

**Windows on ARM64 and legacy x86 hardware (without AVX2/FMA3 support):**

MongoDB v8 is not considered reliable on these platforms. Customers should be advised to **avoid installing Switch 25.07 in such environments** until official support is announced by MongoDB.

**Windows/macOS on x86 architecture:**

Prior to upgrading to Switch 25.07, customers must verify that their CPU supports both AVX2 and FMA3 instruction sets. MongoDB v8 will fail to start if these instructions are not available.

**Process to verify instruction availability:**

To verify support for AVX2 and FMA instructions on a **macOS (Intel/x86)**, execute the following commands in the terminal:

- `sysctl -n hw.optional.avx2_0` — returns 1 if AVX2 instructions are supported.
- `sysctl -n hw.optional.fma` — returns 1 if FMA instructions are supported.

To verify support for AVX2 and FMA instructions on a **Windows (x86)** follow the Recommended Verification Method:

- **Using System Information:**
  1. Press **Win + R**, type `msinfo32`, and press **Enter**.
  2. In the **System Summary**, locate the **Processor** model.
  3. Visit the official processor specification page on the Intel ARK or AMD website to confirm AVX2 and FMA3 support.
- **Alternative Method (Third-Party Utility):**
  1. Customers comfortable with installing a lightweight utility may use [CPU-Z](#).
  2. Under the **Instructions** field, CPU-Z will explicitly list **AVX2** and **FMA3** if supported by the processor.

## Other updates

### Core library updates

Several core libraries have been updated to enhance security, stability and performance.

### Node.js package updates

Multiple Node.js packages have been upgraded to their latest stable versions to mitigate security vulnerabilities.

## System requirements

System Requirements changes for Switch 25.07:

- **Windows** – Windows Server 2025 is now supported



- **MacOS** – macOS 10 and 11 are no longer supported

## Fixed issues

Below are the main issues which have been fixed in this release

ENFS-37672	SFTP connection failing
ENFS-36743	Jobs in certain elements in Switch 'hang'
ENFS-37669	ScriptedFlowElement::jobArrived fails for Hold Job
ENFS-37382	'Beta' tag for apps in Flow elements pane has been redesigned for better visibility
ENFS-37738	Switch slowdown and potential crash linked to bloated log database file
ENFS-37758	A creating job error: Internal Server error causing Mail receive with OAuth2.0 and Ungroup job apps to fail intermittently
ENFS-37661	Switch crash after 20 minutes of processing
ENFS-37674	Assemble and Rename job apps memory issue