Enfocus BV
Kortrijksesteenweg 1095
9051 Gent
Belgium

+32 (0)9 216 98 01
info@enfocus.com

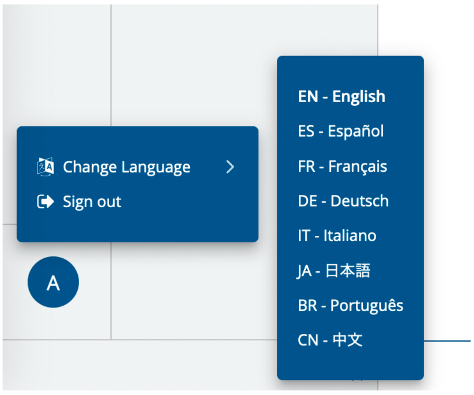
Enfocus Switch 2021 Spring

Release Notes

Localization

Spanish and Portuguese

Spanish and Portuguese are added to the list of supported languages for Switch Designer, Switch Server, and the Switch Web Portal.

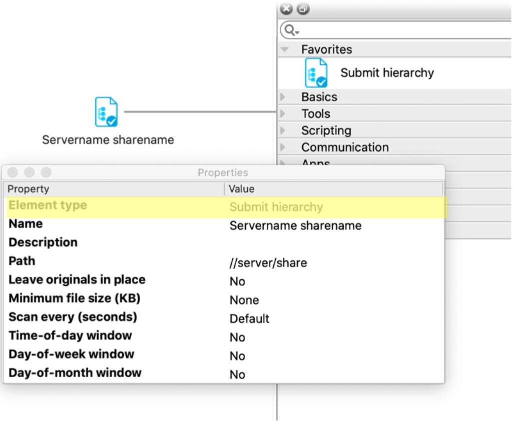


List of all available languages in the Switch Web Portal.

Elements

Show Element type Improvements

A read-only property added to all elements used in a flow. The new property "Element type" displays the name of the element as it is shown in the Flow elements pane.

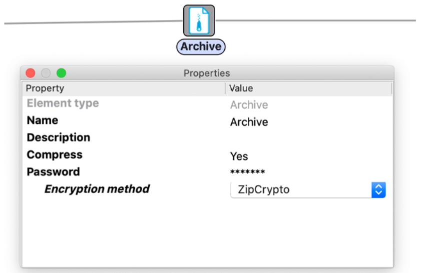


Property	Value
Element type	Submit hierarchy
Name	Servername sharename
Description	
Path	//server/share
Leave originals in place	No
Minimum file size (KB)	None
Scan every (seconds)	Default
Time-of-day window	No
Day-of-week window	No
Day-of-month window	No

Example of a Submit hierarchy element

Archive element: Encryption method

Improvements



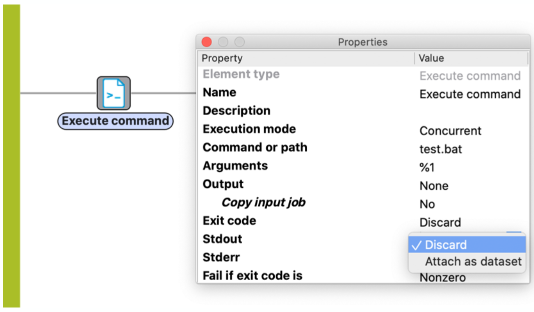
Property	Value
Element type	Archive
Name	Archive
Description	
Compress	Yes
Password	*******
Encryption method	ZipCrypto

Choose the Encryption Method after defining a password.

Execute Command: store output as private data/metadata

Improvements

Stdout and stderr are now optionally attached as a dataset, while the exit code van be stored as private data.



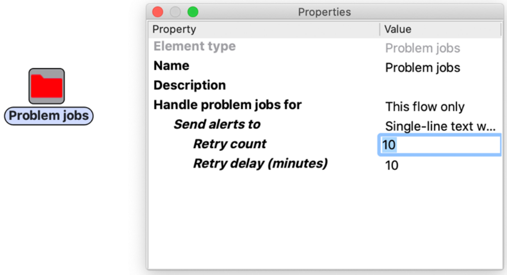
Property	Value
Element type	Execute command
Name	Execute command
Description	
Execution mode	Concurrent
Command or path	test.bat
Arguments	%1
Output	None
Copy input job	No
Exit code	Discard
Stdout	✓ Discard Attach as dataset
Stderr	
Fail if exit code is	Nonzero

Stdout example

Problem jobs: retry alert mails

Improvements

The new property is also available on server level in the user preferences.



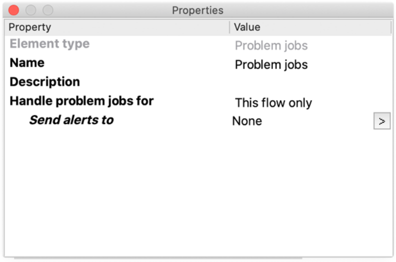
Property	Value
Element type	Problem jobs
Name	Problem jobs
Description	
Handle problem jobs for	This flow only
Send alerts to	Single-line text w...
Retry count	10
Retry delay (minutes)	10

Retry 10 times every 10 minutes

Problem jobs: disable alert mails on flow level

Improvements

Disable problem job alert mails on flow level by adding a Problem jobs folder and selecting “None” for the “Send Alerts to” property.



Properties

Property	Value
Element type	Problem jobs
Name	Problem jobs
Description	
Handle problem jobs for	This flow only
Send alerts to	None

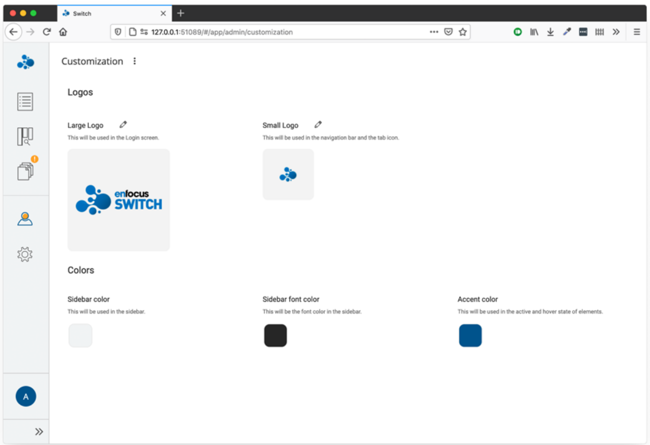
This Problem jobs folder will not send any email alerts.

Switch Web Portal

Custom Branding

NEW!

Administrators can configure the look of the Switch Web Portal by changing colors and logos.



Customization

Logos

Large Logo
This will be used in the Login screen.

Small Logo
This will be used in the navigation bar and the tab icon.

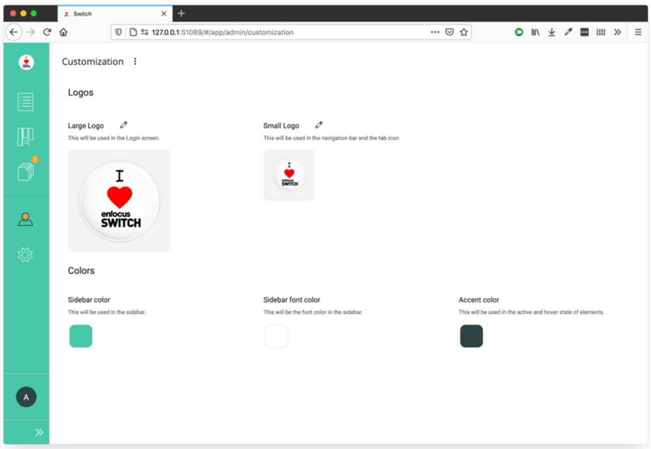
Colors

Sidebar color
This will be used in the sidebar.

Sidebar font color
This will be the font color in the sidebar.

Accent color
This will be used in the active and hover state of elements.

The default configuration



Switch

127.0.0.1:51089/#/app/admin/customization

Customization

Logos

Large Logo

This will be used in the Login screen.

Small Logo

This will be used in the navigation bar and the tab icon.

Colors

Sidebar color

This will be used in the sidebar.

Sidebar font color

This will be the font color in the sidebar.

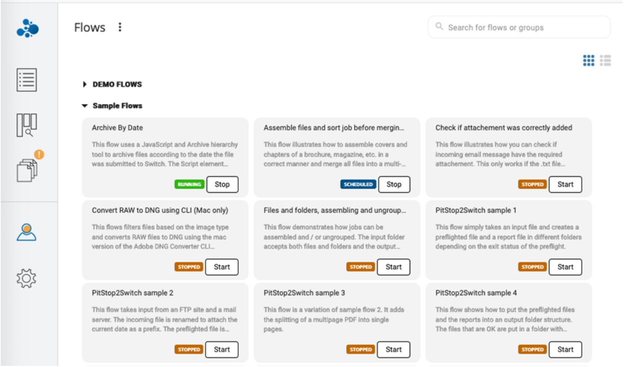
Accent color

This will be used in the active and hover state of elements.

A custom branded Switch Web Portal

Flow control Redesign

The flow control view in the Web Portal is redesigned to be quicker to use and offer a more consistent design between Web Portal views.



Flows

Search for flows or groups

▸ DEMO FLOWS

▾ Sample Flows

Archive By Date

This flow uses a JavaScript and Archive hierarchy tool to archive files according to the date the file was submitted to Switch. The Script element...

RUNNING Stop

Assemble files and sort job before mergin...

This flow illustrates how to assemble covers and chapters of a brochure, magazine, etc. in a correct manner and merge all files into a multi-...

SCHEDULED Stop

Check if attachement was correctly added

This flow illustrates how you can check if incoming email message have the required attachement. This only works if the .txt file...

STOPPED Start

Convert RAW to DNG using CLI (Mac only)

This flows filters files based on the image type and converts RAW files to DNG using the mac version of the Adobe DNG Converter CLI...

STOPPED Start

Files and folders, assembling and ungroup...

This flow demonstrates how jobs can be assembled and / or ungrouped. The input folder accepts both files and folders and the output...

STOPPED Start

PitStop2Switch sample 1

This flow simply takes an input file and creates a preflighted file and a report file in different folders depending on the exit status of the preflight.

STOPPED Start

PitStop2Switch sample 2

This flow takes input from an FTP site and a mail server. The incoming file is renamed to attach the current date as a prefix. The preflighted file is...

STOPPED Start

PitStop2Switch sample 3

This flow is a variation of sample flow 2. It adds the splitting of a multipage PDF into single pages.

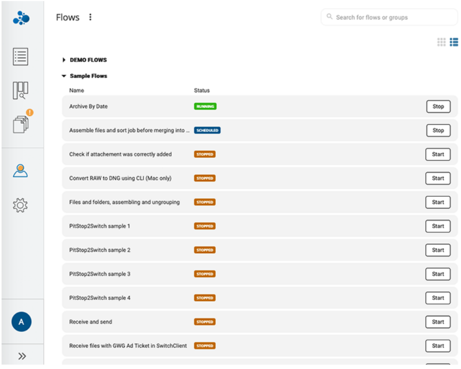
STOPPED Start

PitStop2Switch sample 4

This flow shows how to put the preflighted files and the reports into an output folder structure. The files that are OK are put in a folder with...

STOPPED Start

Card View including Flow description and labels for running/stopped/scheduled status.



Flows

Search for flows or groups

DEMO FLOWS

Sample Flows

Name	Status	
Archive By Date	RUNNING	Stop
Assemble files and sort job before merging into ...	SCHEDULED	Stop
Check if attachement was correctly added	STOPPED	Start
Convert RAW to DNG using CLI (Mac only)	STOPPED	Start
Files and folders, assembling and ungrouping	STOPPED	Start
PitStop2Switch sample 1	STOPPED	Start
PitStop2Switch sample 2	STOPPED	Start
PitStop2Switch sample 3	STOPPED	Start
PitStop2Switch sample 4	STOPPED	Start
Receive and send	STOPPED	Start
Receive files with GWG Ad Ticket in SwitchClient	STOPPED	Start

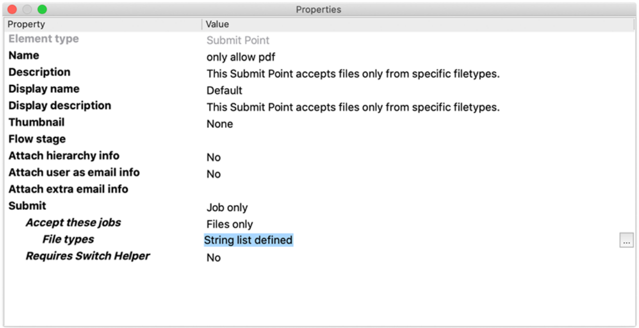
A compact List View.

Submit points and Checkpoints

Define file types accepted by a Submit point

Improvement

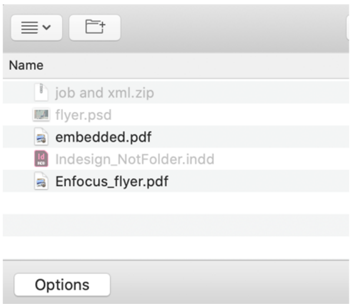
Submit points can now be configured to only accept folders and/or certain file types.



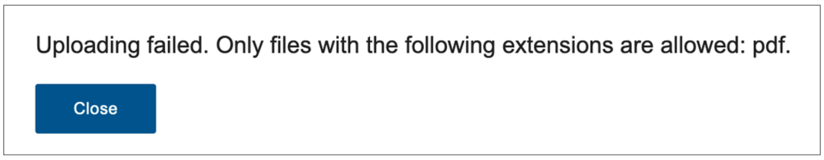
Properties

Property	Value
Element type	Submit Point
Name	only allow pdf
Description	This Submit Point accepts files only from specific filetypes.
Display name	Default
Display description	This Submit Point accepts files only from specific filetypes.
Thumbnail	None
Flow stage	
Attach hierarchy info	No
Attach user as email info	No
Attach extra email info	
Submit	Job only
Accept these jobs	Files only
File types	String list defined
Requires Switch Helper	No

Submit point configured to only accept certain file types.



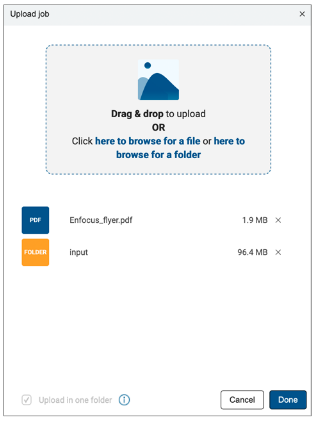
Only the accepted file types are enabled when using a file browse.


Uploading failed. Only files with the following extensions are allowed: pdf.

A warning is shown when dropping an unallowed file type on a Submit point

Manage file list before uploading NEW!

You can now add and remove files (and folders) before opening the metadata dialog and starting the upload process.


Upload job

Drag & drop to upload
OR
Click **here to browse for a file** or **here to browse for a folder**

PDF	Enfocus_flyer.pdf	1.9 MB	×
FOLDER	input	96.4 MB	×

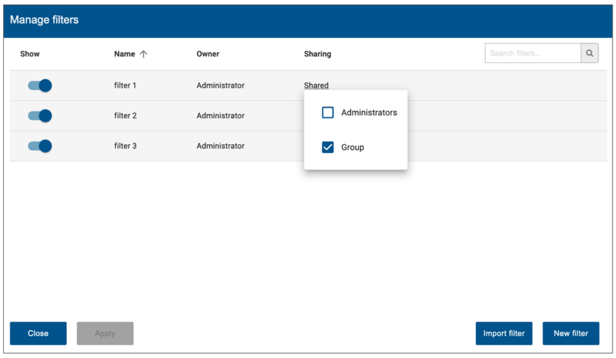
☑ Upload in one folder

Manage the list before continuing to the metadata dialog.

Share Checkpoint filters + export and import them

NEW!

Share custom filters for jobs with other users.



Manage filters

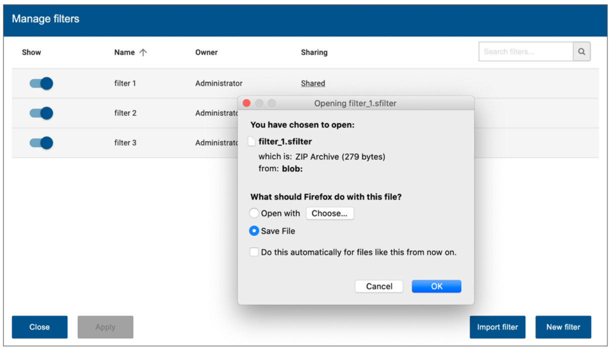
Search filters...

Show	Name ↑	Owner	Sharing
●	filter 1	Administrator	Shared
●	filter 2	Administrator	
●	filter 3	Administrator	

□ Administrators

☑ Group

A list of custom filters shared with a group of users.



Manage filters

Search filters...

Show	Name ↑	Owner	Sharing
●	filter 1	Administrator	Shared
●	filter 2	Administrato	
●	filter 3	Administrato	

Opening filter_1.sfilter

You have chosen to open:

filter_1.sfilter

which is: ZIP Archive (279 bytes)

from: **blob:**

What should Firefox do with this file?

○ Open with Choose...

● Save File

□ Do this automatically for files like this from now on.

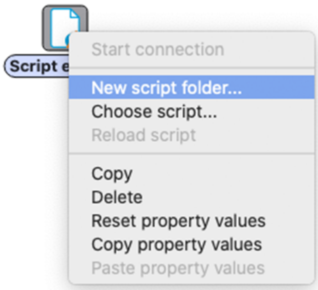
Exporting and downloading a filter.

Scripting

Create new script folders in Designer

Node.js

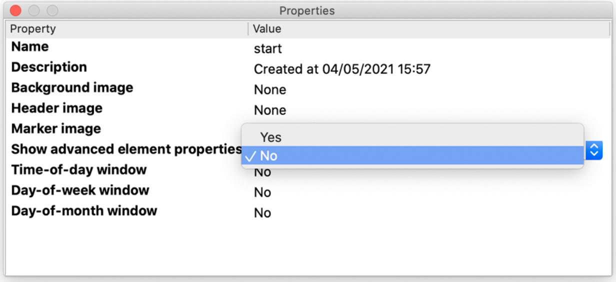
You can now create new script folders from within Switch Designer, without needing the SwitchScriptTool application. The feature is available from the contextual menu of a Script element on the canvas.



Create a new script folder using the contextual menu of Script elements

LogLevel.Debug Node.js

Enable debug logging by first enabling advanced element properties on Flow level and afterwards debug logs on the element level containing the Node.js script.



Property	Value
Name	start
Description	Created at 04/05/2021 15:57
Background image	None
Header image	None
Marker image	
Show advanced element properties	Yes ✓ No
Time-of-day window	No
Day-of-week window	No
Day-of-month window	No

First enable the advanced element properties on flow level

Additional private tags used by built-in elements Node.js

Some private data tags are reserved for Switch built-in elements and can be read by Switch scripts. Except for EnfocusSwitch.origin these private data fields can be changed by scripts using job.setPrivateData calls.

EnfocusSwitch.hierarchy(string[])

An array with the location path segments in the hierarchy info associated with the job, or an empty array if there is no hierarchy info. The topmost path segment is stored at index 0.

EnfocusSwitch.emailAddresses (string[])

An array with the email addresses in the email info associated with the job, or an empty array if there are none.

EnfocusSwitch.emailBody (string)

The email body text in the email info associated with the job, or an empty string if there is none.

EnfocusSwitch.userName (string)

The short user name for the job, or an empty string if no user information has been associated with this job.

EnfocusSwitch.userFullName (string)

The full user name for the job, or an empty string if no user information has been associated with this job.

EnfocusSwitch.userEmail (string)

The user e-mail address for the job, or an empty string if no user information has been associated with this job.

EnfocusSwitch.origin (string)

An indication of the origin of the job before it was injected in the flow.

PdfDocument and PdfPage Class Node.js

Retreive PDF file and PDF page information.

PdfDocument Methods examples:

getNumberOfPages( ): number;

Returns the number of pages in the PDF document.

getPDFVersion( ): string;

Returns the version of the PDF file format (for example: "1.6").

getPDFXVersion( ): string;

Returns the PDF/X version of the document, or an empty string if there is no PDF/X version.

And more…

PdfPage Methods examples:

getWidth(effective?: boolean): number;

Returns the width of the PDF page, in points. It is the same as getMediaBoxWidth.

getMediaBoxHeight(effective?: boolean): number;

Returns the height of the media box of the PDF page, in points. If effective is true, then the page rotation and scaling are taken

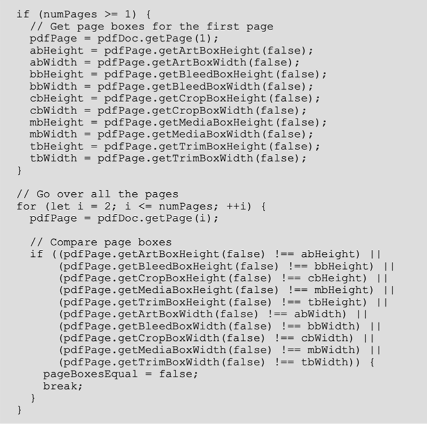
getCropBoxHeight(effective?: boolean): number;

Returns the height of the crop box of the PDF page, in points.

getBleedBoxWidth(effective?: boolean): number;

Returns the width of the bleed box of the PDF page, in points. If effective is true, then the page rotation and scaling are taken

And more…



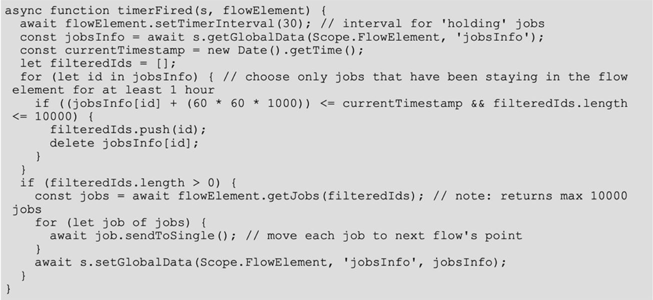
```
if (numPages >= 1) {
  // Get page boxes for the first page
  pdfPage = pdfDoc.getPage(1);
  abHeight = pdfPage.getArtBoxHeight(false);
  abWidth = pdfPage.getArtBoxWidth(false);
  bbHeight = pdfPage.getBleedBoxHeight(false);
  bbWidth = pdfPage.getBleedBoxWidth(false);
  cbHeight = pdfPage.getCropBoxHeight(false);
  cbWidth = pdfPage.getCropBoxWidth(false);
  mbHeight = pdfPage.getMediaBoxHeight(false);
  mbWidth = pdfPage.getMediaBoxWidth(false);
  tbHeight = pdfPage.getTrimBoxHeight(false);
  tbWidth = pdfPage.getTrimBoxWidth(false);
}

// Go over all the pages
for (let i = 2; i <= numPages; ++i) {
  pdfPage = pdfDoc.getPage(i);

  // Compare page boxes
  if ((pdfPage.getArtBoxHeight(false) !== abHeight) ||
      (pdfPage.getBleedBoxHeight(false) !== bbHeight) ||
      (pdfPage.getCropBoxHeight(false) !== cbHeight) ||
      (pdfPage.getMediaBoxHeight(false) !== mbHeight) ||
      (pdfPage.getTrimBoxHeight(false) !== tbHeight) ||
      (pdfPage.getArtBoxWidth(false) !== abWidth) ||
      (pdfPage.getBleedBoxWidth(false) !== bbWidth) ||
      (pdfPage.getCropBoxWidth(false) !== cbWidth) ||
      (pdfPage.getMediaBoxWidth(false) !== mbWidth) ||
      (pdfPage.getTrimBoxWidth(false) !== tbWidth)) {
    pageBoxesEqual = false;
    break;
  }
}
```

Code snippet using PdfPage methods

FlowElement class - get jobs

Node.js

Returns a list of jobs waiting in the input folders of the flow element. The list includes all jobs that have "arrived" in the jobArrived entry point.



```
async function timerFired(s, flowElement) {
  await flowElement.setTimerInterval(30); // interval for 'holding' jobs
  const jobsInfo = await s.getGlobalData(Scope.FlowElement, 'jobsInfo');
  const currentTimestamp = new Date().getTime();
  let filteredIds = [];
  for (let id in jobsInfo) { // choose only jobs that have been staying in the flow
 element for at least 1 hour
    if ((jobsInfo[id] + (60 * 60 * 1000)) <= currentTimestamp && filteredIds.length
 <= 10000) {
      filteredIds.push(id);
      delete jobsInfo[id];
    }
  }
  if (filteredIds.length > 0) {
    const jobs = await flowElement.getJobs(filteredIds); // note: returns max 10000
 jobs
    for (let job of jobs) {
      await job.sendToSingle(); // move each job to next flow's point
    }
    await s.setGlobalData(Scope.FlowElement, 'jobsInfo', jobsInfo);
  }
}
```

Code snippet using getJobs to release multiple jobs at once

BugFixes

ENFS-28525	Extra files removed from script folders (eg: versioning/git related files)
ENFS-28260	Temp folder not being cleaned up
ENFS-28121	Remote Designer crashing when connecting from Mac to Windows
ENFS-27740	Node.js scripts: properties with dynamic values are evaluated for any entry point

ENFS-27718	Heavily loaded Archive hierarchy element blocks other Archive hierarchies
/ENFS-27717	Improve Switch Helper open file error message
ENFS-27670	Leave originals sometimes ignored
ENFS-27610	Input field size checkpoint in dependent fields not adjusted.