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## S3-Downloader

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### Description

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The purpose of this app is to monitor a specific folder (key) on an s3 storage for new files. If new files are present, they are downloaded and injected into Switch as a new job.

Afterwards, the files on the S3 storage will be deleted.

### Compatibility

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Switch Fall 2022 and higher.

### Getting Started

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- (Enter your mail address in the `Attach email addresses` field of the 'Error' folder)
- Enter your S3 credentials
- Select the directory you would like to scan for files
- Either select 'Delete' or 'Move' as `Action after download`
  - If 'Move' enter a path to the destination folder

### Output Connections

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#### Data success

If the file is successfully downloaded and deleted, it will be send to the data out connection of the flow element.

## Data error

### Download error:

If the file could not be downloaded a dummy job with the name of the file will be send to the outgoing connection.

### Delete / Move error:

If the file was downloaded successfully but it could not be deleted, the file itself will be send to data out.

## Flow Element

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### General Properties

| Property                      | Value            | Description  |
|-------------------------------|------------------|--|
| <i>Server URL</i>             | String           | Defines the server URL of the storage  |
| <i>Access key id</i>          | String           | S3 access key id   |
| <i>Secret access key</i>      | String           | S3 Secret access key   |
| <i>Region</i>                 | String           | S3 region  |
| <i>Bucket</i>                 | String           | S3 bucket name   |
| <i>Folder</i>                 | String           | Defines the directory (key) that should be checked for new files every X seconds |
| <i>Check every (seconds)</i>  | Number           | Defines how often the defined folder should be checked for new files. Default=60 |
| <i>Minimum file size (KB)</i> | Number           | Process only files that have more than X kilobyte. Default=0                     |
| <i>Process these files</i>    | String           | Only process files that match the defined regular expression.                    |
| <i>Ignore these files</i>     | String           | Only process files that do not match the defined regular expression.             |
| <i>Action after download</i>  | Enum<br>[Delete] | Defines if the processed files should be deleted                                 |

## Error handling

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This app uses two types of errors:

- job data: if an handled error occurs (e.g. download / delete error), the error message is logged in the switch messages.
- failProcess: if any other error occurs, the flow Element will fail and stop processing. An email will be send to the problem alerts mail address (defined in Switch preferences)

## Private data

The following private data tags will be set if an error occurs:

| Tag              | Value   Type    | Description  |
|------------------|-----------------|--|
| lastErrorElement | String          | the name of the flow element                               |
| lastErrorId      | jsonCreateError |  |
| lastErrorCode    | Number          | an error code that defines the type of error that occurred |
| lastErrorMessage | String          | detailed error message                                     |

## Error Codes:

```
export enum ERROR_CODES {
  downloadError = 6,
  deleteError = 7,
  moveError = 8
}
```