

## RetryIt

### Description

**RetryIt** makes it easy to set up a flow to repeat a process a user-definable number of times. When the configured count is exceeded, the job is passed to the Error connection. A user definable private data field is used to control the number of attempts and can be set to count either up or down. Use this app to build a more robust flow that includes a process that could fail such as downloading a file or information from a remote service.

### Compatibility

This app is built with Node.js Javascript and requires Switch 2020 Spring or later.

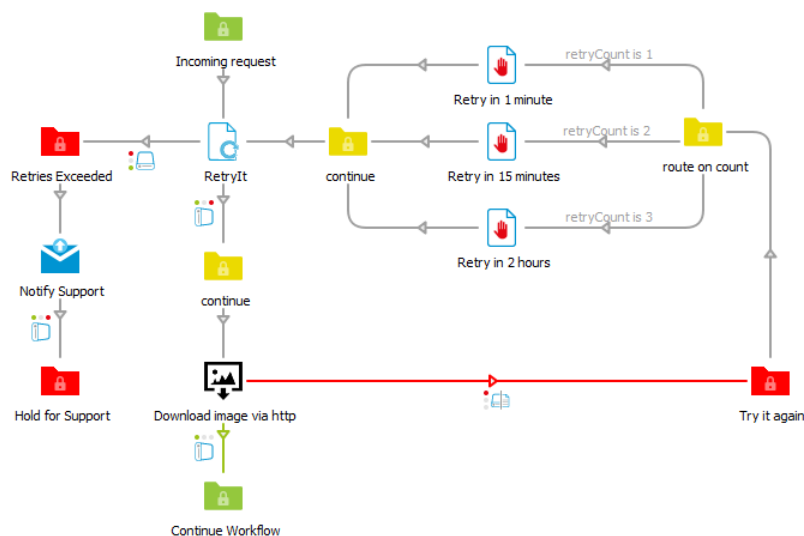
### Connections

RetryIt utilizes *TrafficLight* connections of type **Success** and **Error**. It requires at least one input connection. When value in the re-try count private data field is less than or equal to the configured retry count, the job will be routed to the **Success** connection. When the retry count exceeds the limit, the job will be routed to the **Error** connection.

### Properties detailed info

Set the *Retry count* property to the number of times you want the job to pass through the app before routing it to the **Error** connection. Use *Current count name* property to define the name of the private data field used to track the retry count. You can set the retry private data field to count either up or down with the *Count direction* property. This may be handy if you need to utilize the count in some other calculation such as a delay value. If the job exceeds the count and is routed to the Error connection, the *Reset count* property instructs the app to either save the value in the private data field or, if set to *No*, remove the private data field.

In this example, the http download could fail. If it does, the flow will retry the download 3 times after waiting 1 minute, then 15 minutes and, finally, 2 hours before failing and emailing support.



**Flow elements properties**

- **Retry count**  
Number of times you want to allow the job to pass through the app
- **Count direction**  
Indicate whether to increment or decrement the count each time
- **Current count name**  
Set the name of the private data field used to track the count
- **Reset count**  
Indicate whether the retry count private data field is kept or removed if the job is routed to the Error connection

**Outgoing connections properties**

- **Require at least one**  
Yes
- **Connection type**  
TrafficLight – **Success** and **Error**
- **Execution mode**  
Concurrent / number of slots: Default