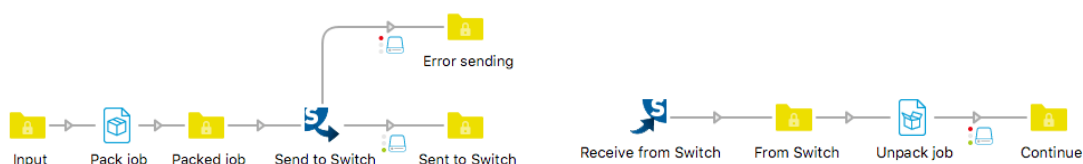


Switch2Switch

Description

Switch2Switch is a bundle of two apps, one that sends a file from Switch Server A to Switch Server B, and one that receives the file on Switch Server B and sends an acknowledgement back to Switch Server A.



The apps allow the definition of a channel so several instances of *Send to Switch* can be linked to several instances of *Receive from Switch* in the correct way.

In the current version the apps can only exchange files. If you want to transfer a complete job with all the job ticket information (private data, datasets, etc.) you have to pack it before sending it and unpack it after receiving it as you can see in the screenshots.

Technical background

The two apps communicate using the remote processing feature that was added in the Switch 2019 Spring Release. This means there are four communication exchanges taking place.

First of all, the local Switch Server sends a webhook to the remote Switch Server with what is called a payload. This payload contains information about the job and about the local server.

The remote server then contacts the REST API of the local server and downloads the job. In other words, the local server does not push the file to the remote server, it is the remote server that pulls it.

The remote server sends back an acknowledgement that the job has been successfully received to the REST API of the local server.

Finally, the local server sends an internal webhook to the *Send to Switch* app instance that the job was transferred, and the job is then sent to the Success output connection.

Compatibility

Switch 2019 Spring Release and higher. Windows or Mac OSX.

Compatibility third-party applications

No third-party applications are used by this app.

Connections

Send to Switch has incoming connections and traffic-light outgoing connections, Success obviously for when the server B confirms having received the file, and Error when it was not possible to send the file or when the acknowledgement timed out. The latter situation can occur when the flow on server B is not active.

Receive from Switch has no incoming connections and one outgoing connection.

Properties detailed info

URL of remote Switch	http://10.31.132.216:51080
Channel	A
Remote processing protocol (Preferences)	HTTP
Remote processing port (Preferences)	51120
Time-out period (mins)	1

Flow element properties Send to Switch

- URL of remote Switch:** https://127.0.0.1:51080
 The app sends a webhook to the remote Switch, so the URL has to be built up of the protocol (http or https), the IP address or the name of the remote server and the port on which webhooks are received. The protocol and the port number are defined in the Preferences of the **remote** Switch Server in the section Webhooks.
- Channel:**
 In order to be able to send different jobs to different instances of the *Receive from Switch* apps on the remote server, you can define a Channel name. E.g. PDF files are sent to the channel "PDF" and images to the channel "Image". This name can be anything, you just have to make sure that it is the same on both ends.
 The technical background: the channel name becomes a part of the path of the webhook, so it becomes unique. Note that when there are multiple instances of *Receive from Switch* on the remote server using the same channel name, they will all receive the file.
- Remote processing protocol (Preferences)**
 The two apps communicate using the remote processing feature that was added in the Switch 2019 Spring Release. This property defines the protocol to be used by the remote server when downloading the file. It must be the same as the one that is defined in the Preferences in the Remote processing section of the **local** Switch Server.
 The reason this is a property is because the Switch scripting API does not yet give access to the preference settings.

- **Remote processing port (Preferences)**

The same as for the protocol.

- **Time-out period**

When the remote Switch Server is not running, it is immediately clear that something is wrong because the webhook cannot be sent. However, when the remote Switch is up and running but the flow in which the *Receive from Switch* app is used is not, then it will not be immediately clear. This property sets a time-out period after which the job will be sent to the Error connection.

Flow element properties Receive from Switch

- **Channel**

There is only one property required and that is the channel name. It defines a string that links a certain instance of this app with a certain instance of the *Send to Switch* app.

Credits

This app bundle was a joint development during a scripting training in April 2019 at Enfocus in which the following people participated:

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Chris De Clercq, Lab9
Danny Roso, Wifac
Freddy Pieters, Enfocus
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Jan De Brabanter, Enfocus
Jan Suhr, ColorConsult
Laurent De Wilde, Enfocus
Loïc Aigon, Agile Streams
Malcolm McKenzie, Colour Engine
Marc De Blanck, Sagam
Martin Owen, Agfa
Martin Thomann, Topix
Muharrem Altıntaş, WIT
Pascal Miquet, Pixel Tech
Stéphane Allain, Neosa
Tim Melis, Catena Company
Tjeerd Schutte, ISI
Vinod Kirouchenamourty, Agile Streams
Wim Deliveyne, Esko