

SERVUS Node

Ingest and Playout Server – Installation and User Manual

Where to deploy

SERVUS – (latin “Slave”) is a software-only videosever. It can be installed on dedicated servers, virtual machines or in the cloud. It supports a very wide range of IO devices that obviously require an installation on physical servers. SERVUS runs as a service on every Microsoft Windows 7, 8.1, 10, 2008, 2012 and 2016 operating system. It can be operated via its built in webGUI or RESTful API.

Legal information

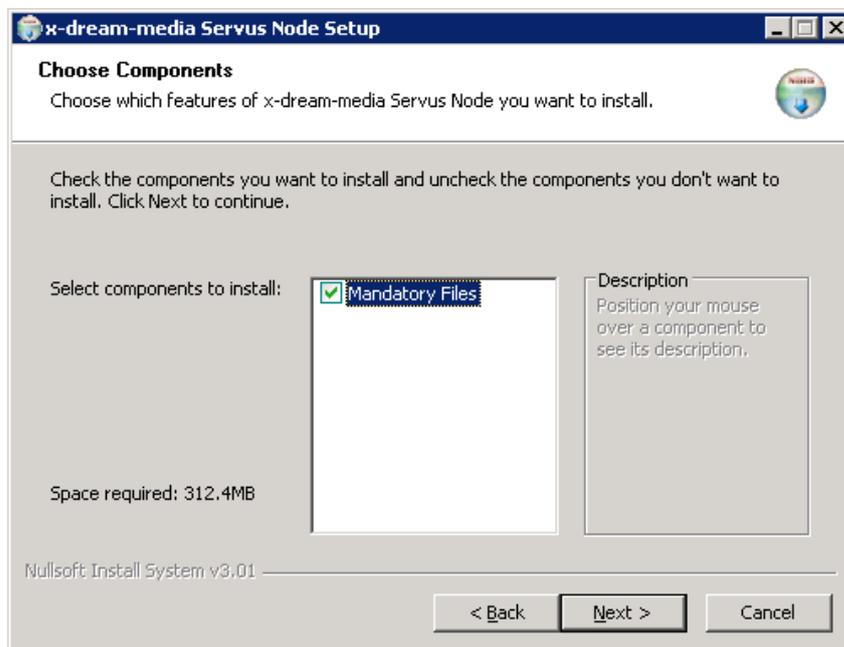
This software makes use of ffmpeg. The libraries that are dynamically linked by this dll (RPI Plugin) are licensed within the GPLv2 License. Within this license, it is explicitly allowed to “dynamically link” to such libraries from proprietary software. As we do not make use of any code that comes with ffmpeg or any of its libraries within our dll, it does not underly the GPLv2 or any other open-source License. Users of this RPI plugin are allowed to reverse engineer or debug all deliverables of ffmpeg whilst our plugin makes use of them. Also we will not spare with answers on questions about what individual methods we make use of, if this is of interest for you.

Installation

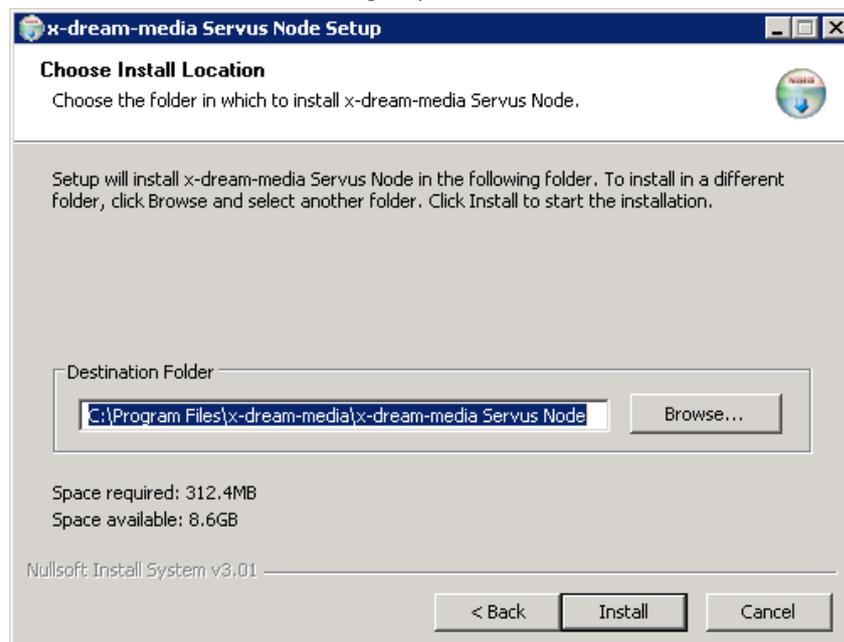
Please follow this steps on each individual node:

- Please download the latest version of SERVUS Node from the location we've provided to you.
- Please start the installer with a double click.
- The installation wizard starts.

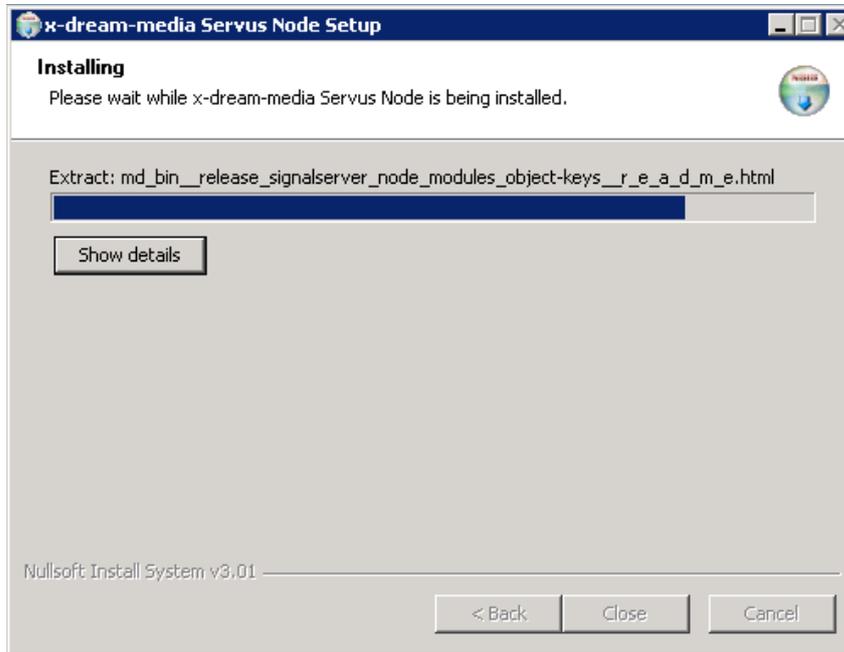
As first you are asked for what options to be installed. Please do not make any change.



- Within the next installer dialogue you can select the location the software to be installed to.

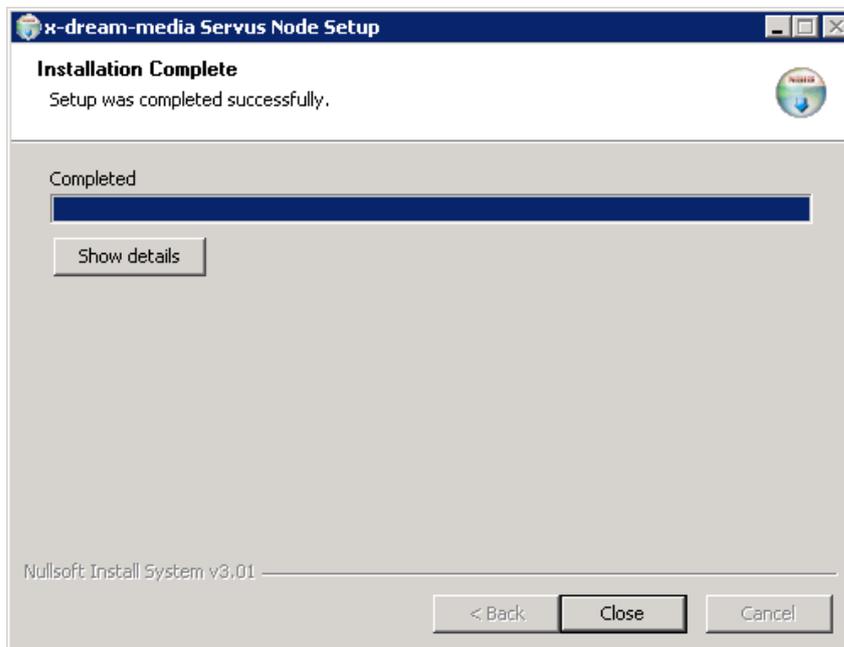


- After clicking the “Install” button the installer writes the files to the installation location.



Afterwards a commandline box shows up. It registers the services.

- The successful installation is prompted as follows.



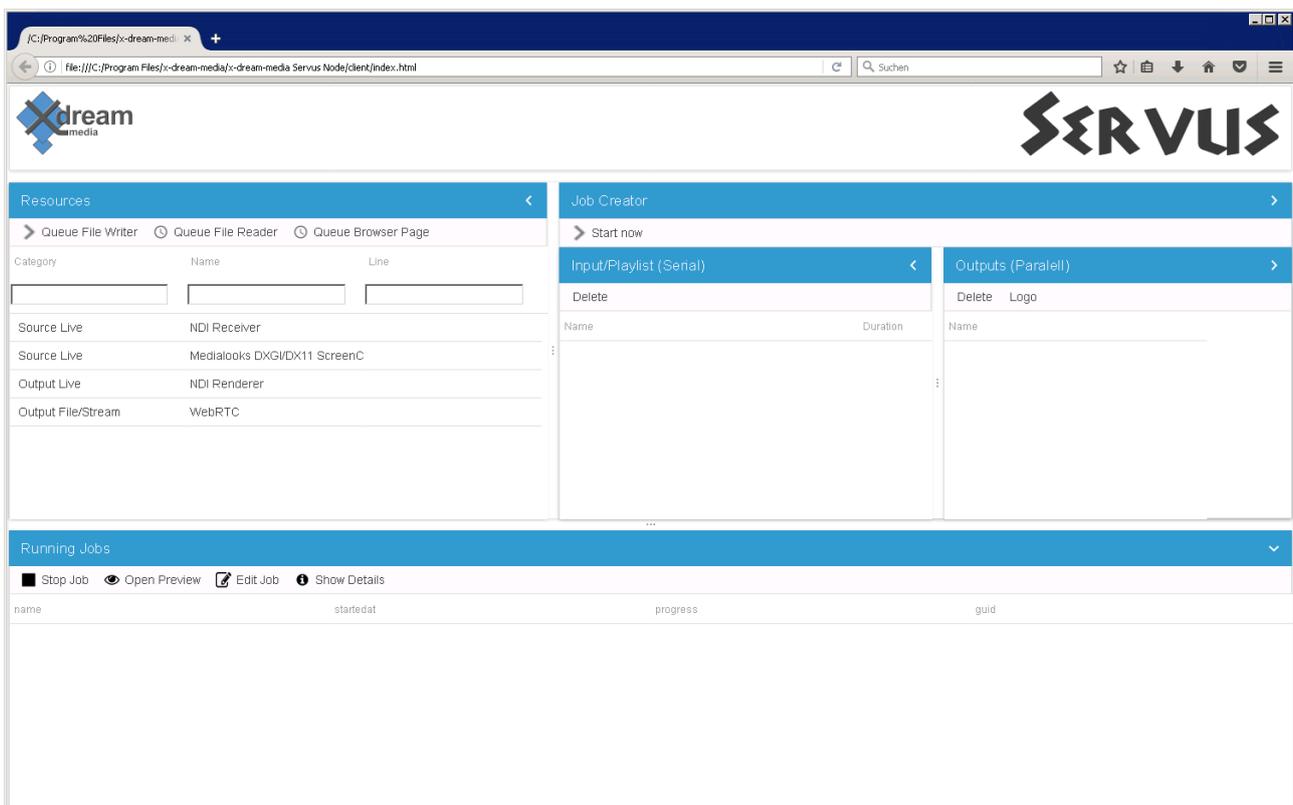
Please click “Close” to finish the installation.

GUIs and Services

Once the installation has been performed you can start the SERVUS Administration GUI and the SERVUS API documentation via the corresponding icons at the desktop.



The administration GUI looks as follows.



Two services have been installed.



Configuration

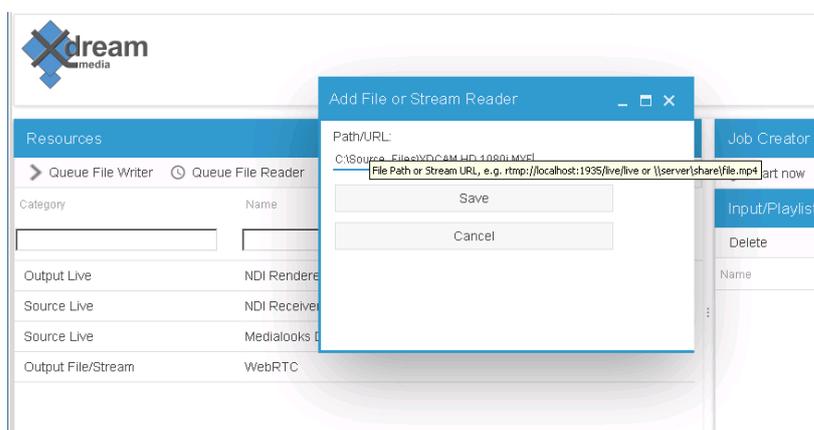
There is not that much to configure. But you probably want to change the user that the SERVUS services are running as to allow access to a storage to write or read video and graphic files.



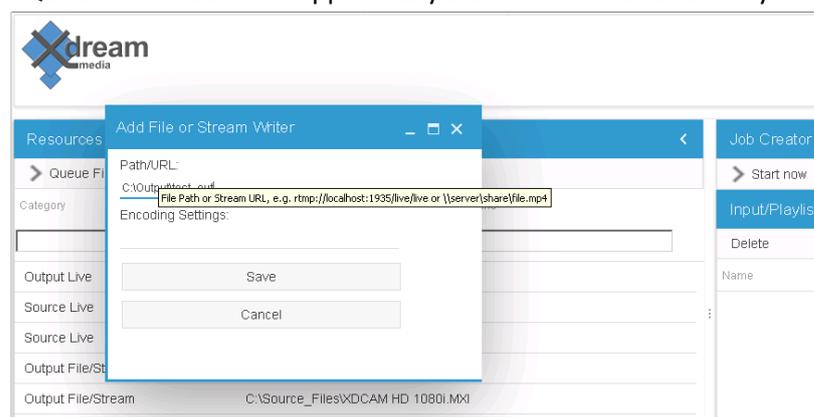
Creating Jobs

In advance to a new Job to be created and started you need to prepare the Sources and Outputs. This is done via the buttons “Queue File Writer”, “Queue File Reader” and “Queue Browser Page”. The usage is as follows:

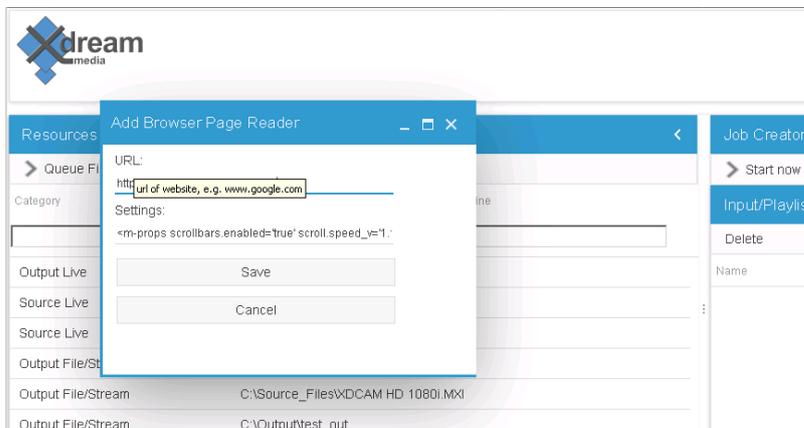
- “Queue File Writer” – Supports many video file formats and many video stream formats as outputs:



- “Queue File Reader” – Supports any video file format and many video stream formats as source:



- “Queue Browser Page” - Allows to convert an automatic scroll through a webpage to a video clip:



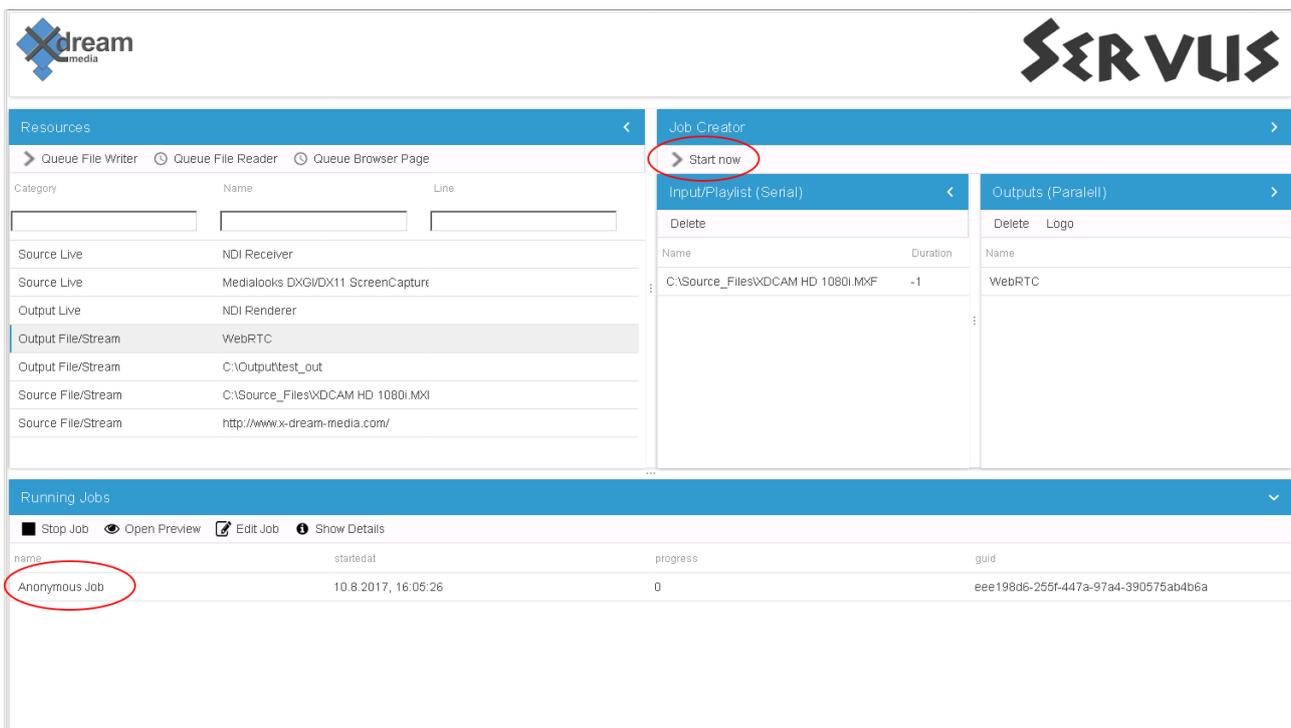
When you load a Source or define an Output the SERVUS engine verifies the correctness of your settings.

The SERVUS webGUI supports drag and drop actions. To create a new job simply:

- select a Source from the “Ressources” section and drag it to the “Input/Playlist” section and
- select an Output from the “Ressources” section and drag it to the “Outputs” section.

You can have multiple sources what will result in a Playlist and you can have multiple Outputs what will result in parallel deliveries to be performed. When you move a Source into the Input list it queues the Sources for immediated usage.

That very moment when you press the “Start now” button the jobs is immediately executed.



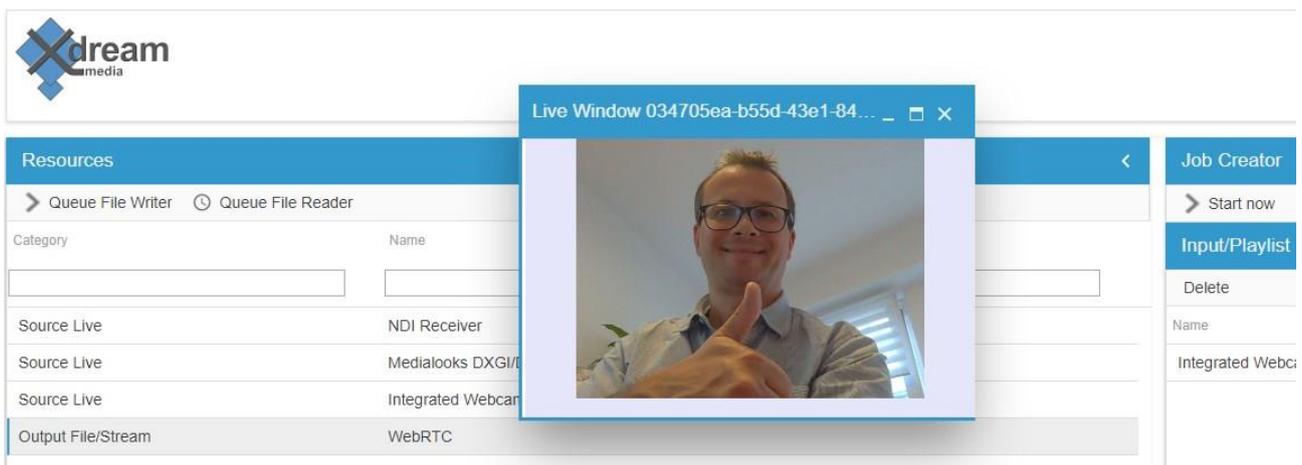
name	startedat	progress	guid
Anonymous Job	10.8.2017, 16:05:26	0	eee198d6-255f-447a-97a4-390575ab4b6a

Viewing of Job Output

The output of running jobs can be viewed via a player popup dialogue in the webGUI. This player requires a WebRTC Output has been added to the Output list. Please open the WebRTC player dialogue via the "Open Preview" button.

Running Jobs				
name	startedat	progress	guild	
Anonymous Job	10.8.2017, 16:17:42	0	9b7ecc99-f840-48be-9663-043f99cde371	Stop Job Open Preview Edit Job Show Details

It will show the SERVUS Node processing with lowest delays.

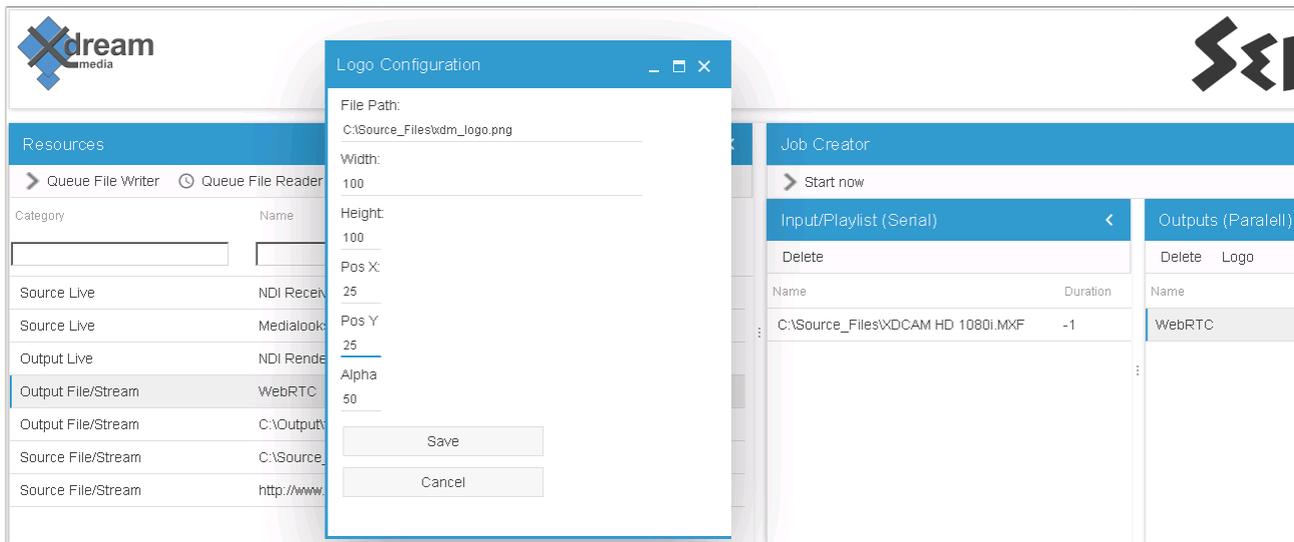


The screenshot shows the webGUI interface. A 'Live Window' popup is open, displaying a video of a man with glasses giving a thumbs up. The background interface includes a 'Resources' panel with a table of resources and a 'Job Creator' panel with buttons for 'Start now', 'Input/Playlist', and 'Delete'.

Category	Name
Source Live	NDI Receiver
Source Live	Medialooks DXGI/...
Source Live	Integrated Webcam
Output File/Stream	WebRTC

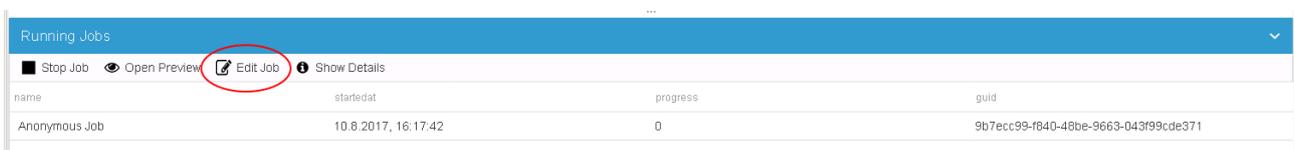
Adding Logos

A logo graphic can get overlayed to any Output. Please select the intended Output from the list and click on “Logo” above the list. A Logo Configuration dialogue opens. Please enter the path to the logo file and adjust the size and position settings are required.



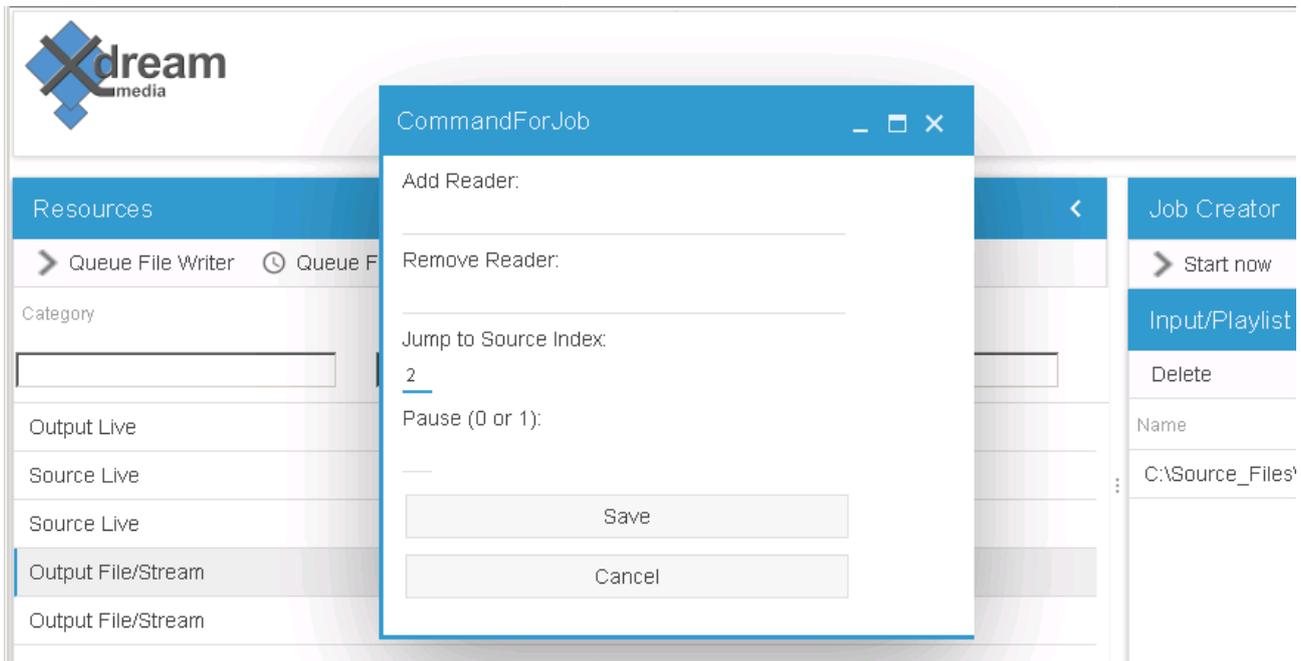
Modification of Jobs

Jobs can be modified at any time. Just highlight the job to be modified and click on the “Edit Job” button above it”.



A popup dialogue will open that allows to directly influence the running job. The following changes are possible:

- Adding a source to the list of queued sources
- Removing a source from the list of queued sources
- Switching to another source
- Pausing the job



On clicking the “Save” button the change will immediately executed.

Version

Version 1.0

DEMO Limitation: logo burn in

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