Out-of-band (OOB)

OOB stands for out-of-band, the control happening outside of the media streaming network interfaces NIC 1 and NIC 2 of a RAV.IO module.

OOB allows control of RAV.IO modules hosted by a PRODIGY via the management port (MGMT) of the device.

Supported services:

- NMOS IS-04 Discovery & Registration (version 1.3)
- NMOS IS-05 Device Connection Management (version 1.1)
- web ui - see page 5

NOTE

The current NMOS implementation does not offer NO DNS-SD, mDNS or P2P mode - they are very rarely used anyway.

General Requirements:

- RAV.IO Firmware 0.36/1.22 or higher
- OOB license or system license ‘UNLIMITED installed on the PRODIGY.

The configuration is set up in globcon, to connect it requires a:

- registry address (Server IP Address)
- port (Server Port)

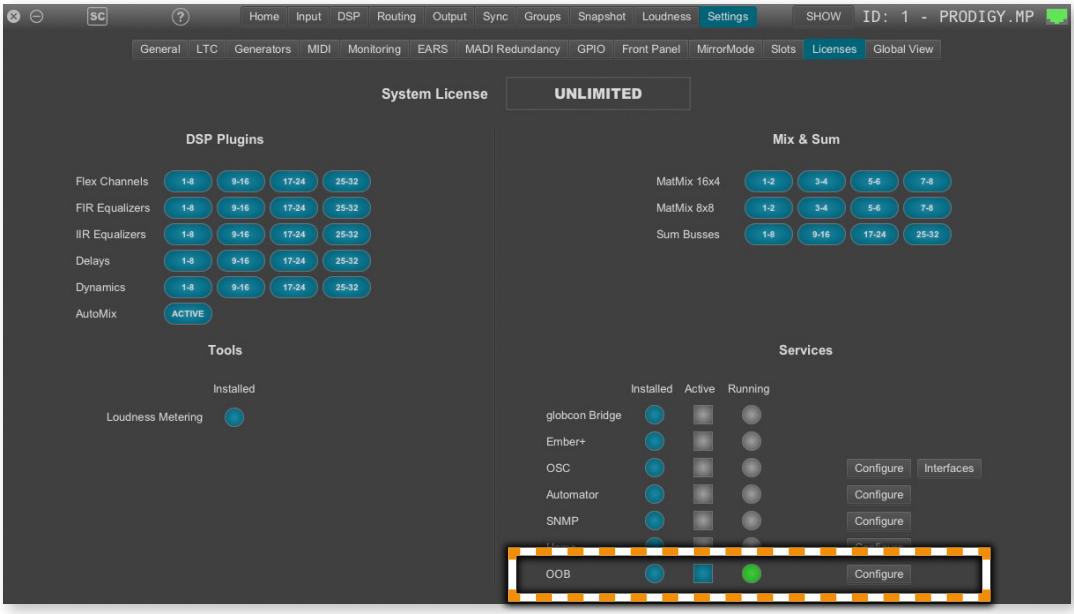
NOTE

If there is no registry available, a placeholder address (any IPv4) and port (between 1024 and 65000) can be used.

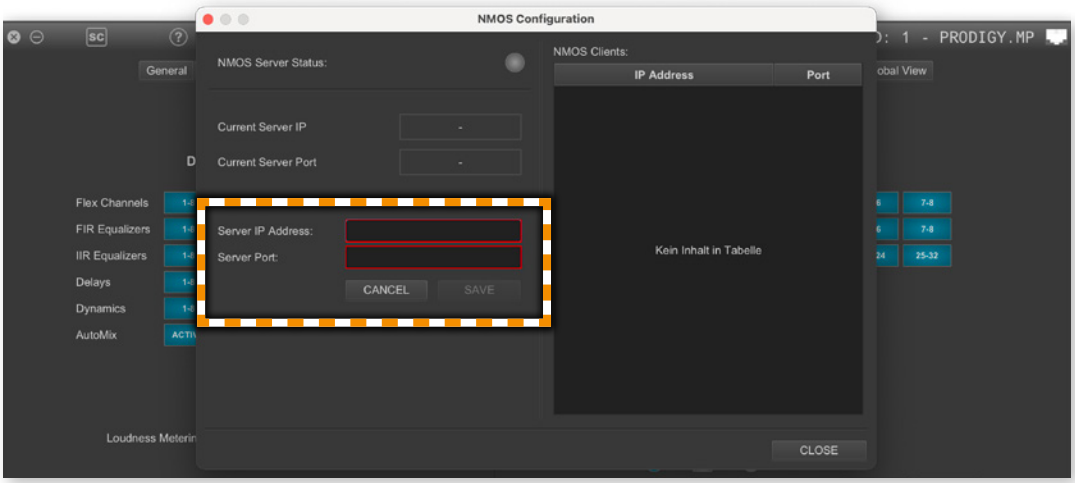
Setup OOB in globcon

1. Open globcon and navigate to the tab ‚Settings-Licenses'.

2. Services - OOB- click 'Configure' to open the configuration window.



3. Enter IP address (Server IP Address) and port (Server Port) of the registry.

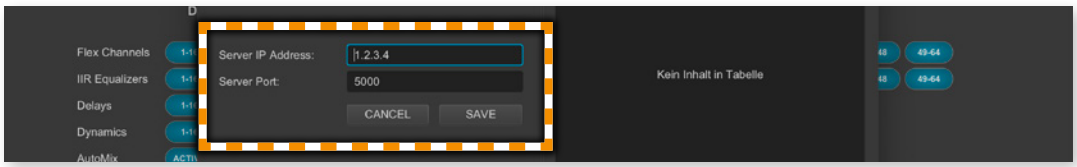


NOTE

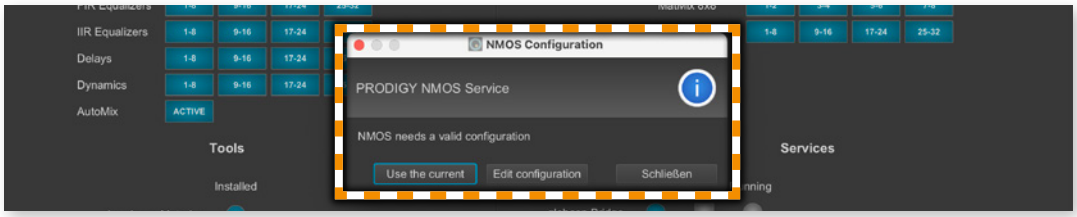
The current NMOS implementation does not offer NO DNS-SD, mDNS or P2P mode - they are very rarely used anyway.

TIP

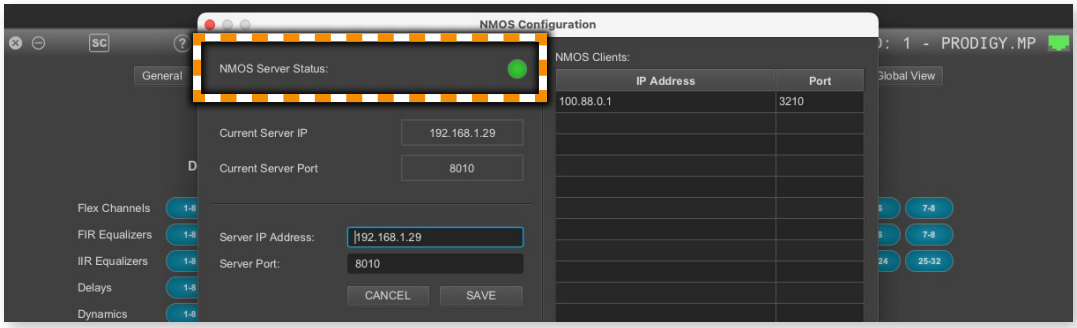
If OOB is used just to access the web ui, a placeholder address may be entered to start the OOB service via globcon.



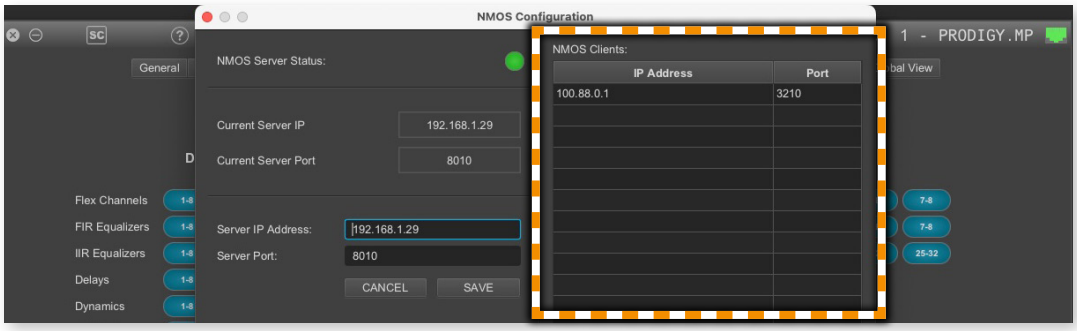
4. Click the check box in the collumn 'Active' to start the service. You will be prompted to use the current configuration or to edit it first.



5. When successfully connected to a registry, the led 'NMOS Server Status' will light solid green.



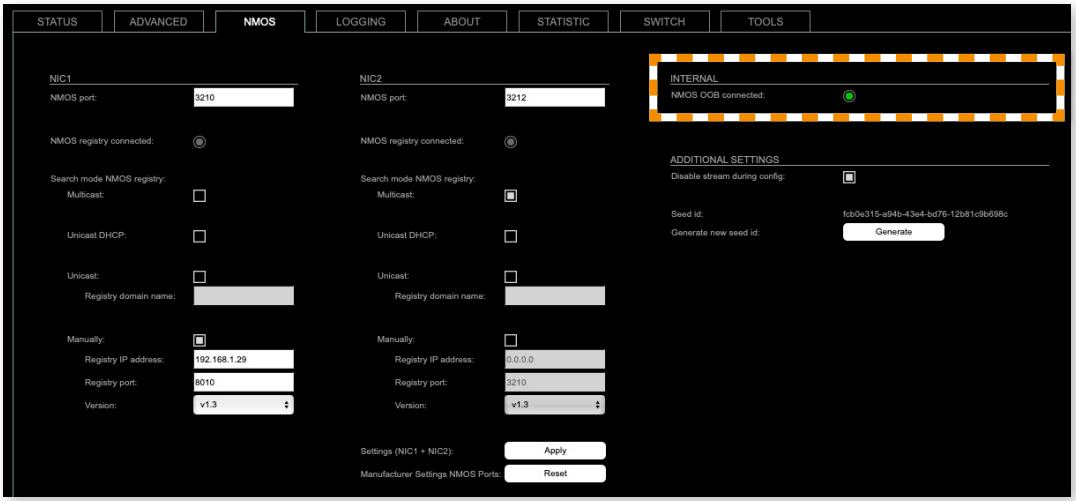
NMOS clients



In the NMOS client array on the right there is the list of connected RAV.IOs. Today they are represented by their internal IPs (100.88.0.{1,5,9,13,17, 21} for slots {1,2,3,4,5,6}) but this will change to a more user friendly indication eventually.

You can access the NMOS infos at http://<prodigy IP>:3219/ where the browser should give you the "x-nmos/" text, you can list devices (RAV.IOs) at http://<prodigy IP>:3219/x-nmos/node/v1.3/devices

Setup - RAV.IO



The status of the internal connection is displayed in the tab 'NMOS' of the browser based user interface (http://<IPADDRESS RAV.IO>

NOTE

Out-of-band requires a RAV.IO with software version > 1.22.

Using web ui

The web ui can be accessed via the management port of the PRODIGY.
Enter the following syntax in the url field of your browser:

url	display
<IP MGMT>:3219/slot/	list of registered devices
<IP MGMT>:3219/slot/<slot number>	web ui of module hosted in <slot number>

<IP MGMT> IP address of the management port of PRODIGY (MGMT)
<slot number> number of A slot where the RAV.IO module is installed

Values of slot numbers:

single network modules in slots A1 to A6	1 to 6
dual network modules in slots A1 to A6	10,11 / 20, 21 / 30, 31 / 40, 41 / 50, 51 / 60, 61

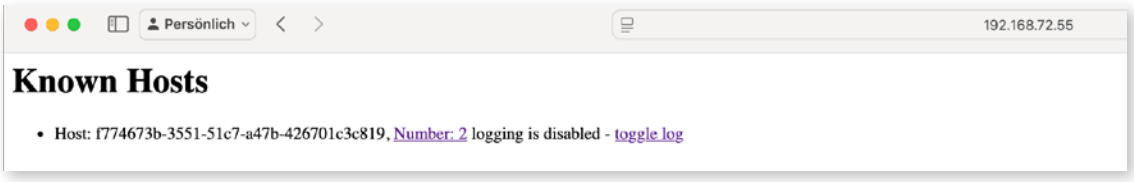
NOTES

The connection is slow, the first loading of the webpage takes time, after that there is a proxy in place that will speed up the page loading.

Firmware update through OOB web ui is not recommended.

RAV.IO logs are disabled by default via OOB but can be activated on the /slot/ page.

Example
http://192.168.72.55:3219/slot/



There is a module installed in A slot 2. Click link to open the web ui.