



DEWETRON

OXYGEN PAK LIVE Plugin

TECHNICAL REFERENCE MANUAL

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1 PREFACE

OXYGEN has the capability to stream data to the PAK Live hub via the PAK Live plugin. The PAK software can be installed on the same measuring device, another measuring device or a PC. With the PAK Live plugin high and low frequency data can be streamed for various use cases.

In this way, physical data can be processed in the highest quality with test bench, bus and energy data or logging parameters via the PAK live.hub and made available performantly to the most diverse applications in real time.

This documentation describes how to use the PAK live Plugin in OXYGEN.

1.1 INSTALLATION AND LICENSING

The PAK Live option is available for OXYGEN R6.3.1 and above and requires the *PAK Live* license option.

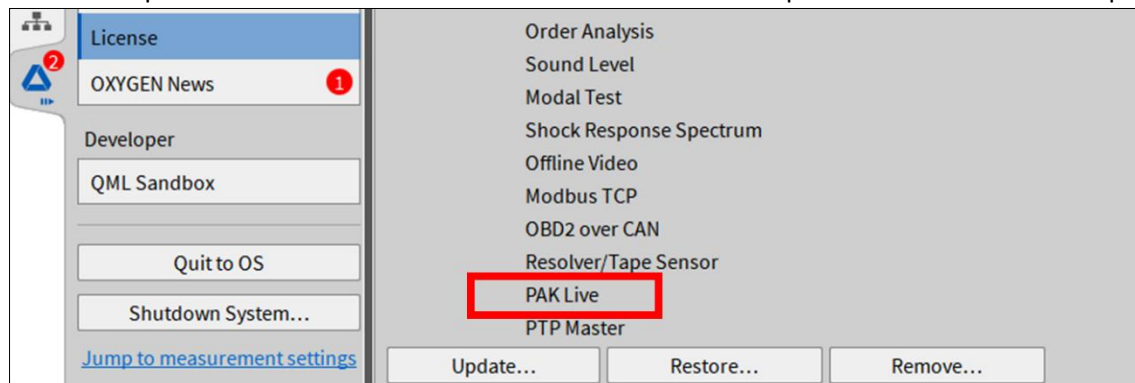


Figure 1: Properties of PAK Live channel

For OXYGEN versions below 7.0, i.e. for all OXYGEN versions with version 6.x, it is an optional plugin and will not be installed automatically. The plugin must be copied to **one** of the following paths:

- C:\Program Files\DEWETRON\OXYGEN\bin
- C:\Users\Public\Documents\Dewetron\Oxygen\Plugins

IMPORTANT:

Don't copy the plugin in both paths mentioned above. This will result in the plugin not being recognized in OXYGEN. Also, if OXYGEN is reinstalled or updated, the plugin will be deleted in the "C:\Program Files\DEWETRON\OXYGEN\bin". For OXYGEN versions below 7.0 it is recommended to copy the plugin in the "C:\Users\Public\Documents\Dewetron\Oxygen\Plugins" folder.

When using OXYGEN 7.0 and above the PAK Live plugin is automatically available with the installation of OXYGEN and it is not necessary to copy the plugin manually. If OXYGEN 6.x was used before and an update to OXYGEN 7.0 or higher will be performed and the PAK Live plugin has already been copied manually to "C:\Users\Public\Documents\Dewetron\Oxygen\Plugins", the plugin must be deleted manually in this path after installing OXYGEN 7.0 or higher, otherwise the plugin will not be recognized correctly in OXYGEN.

2 GETTING STARTED

1. Start OXYGEN (if not already started)
2. Open the channel list
3. Press "+" to add channels
4. Select "PAK Live" in the "Data transfer" section
5. Press "Add" to add the data transfer channel for PAK Live to your channel list

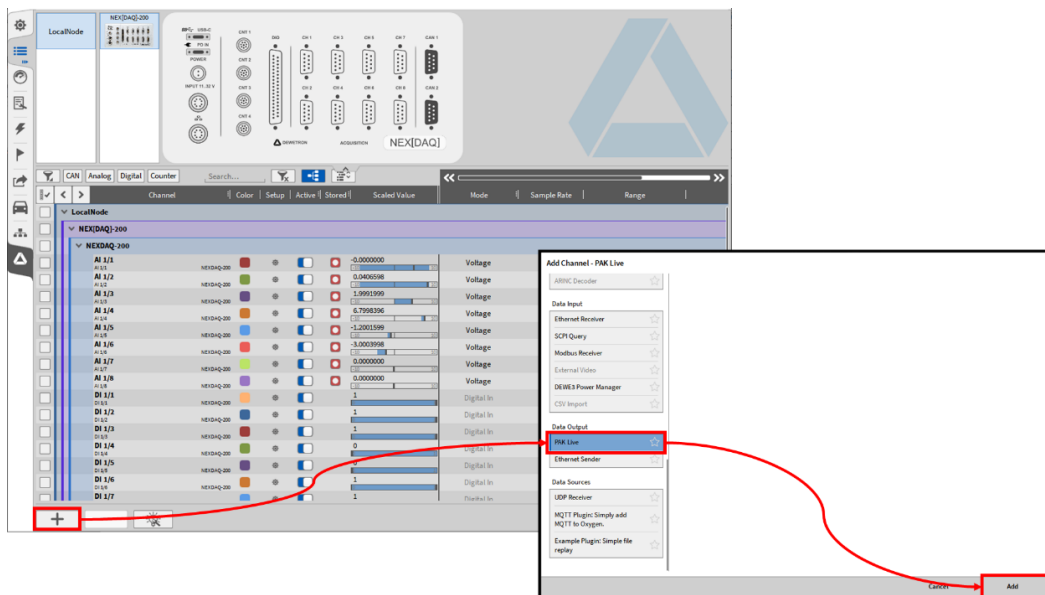


Figure 2: Add PAK Live data transfer channel

6. Press the settings button (see ① in Figure 3) of the PAK Live transfer channel, to open the properties.
7. Press the button for input channels (see ② in Fehler! Verweisquelle konnte nicht gefunden werden.) to open the window for selecting the signals, which shall be transferred (see ③ in Figure 3).
8. Select the desired signals to be transferred. All time synchronous signals like analog channels, as well as asynchronous signals like calculated values of a power group can be transmitted.

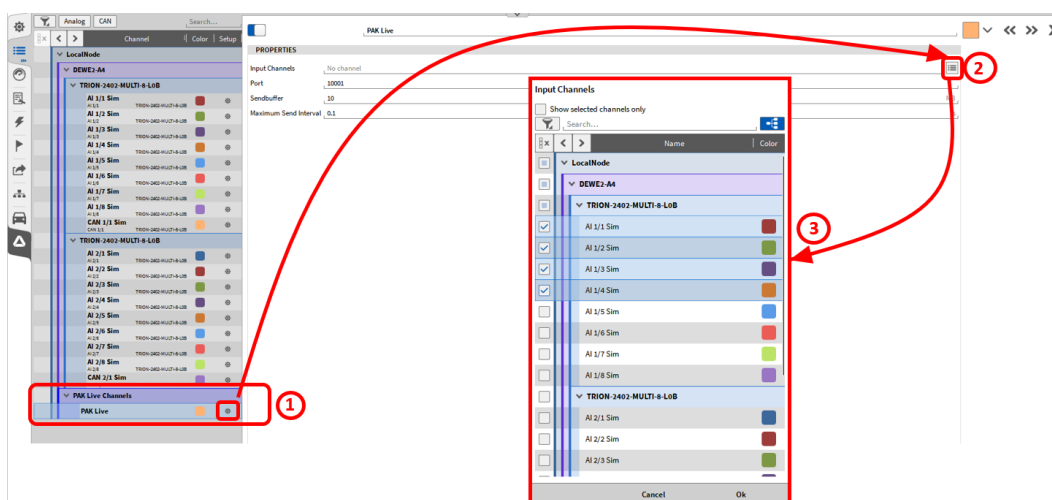


Figure 3: Edit PAK Live data transfer channel

9. Enter the desired port number (see ① in Figure 4)
10. Enter the “Sendbuffer” size in MB (see ② in Figure 4). The default setting of 10 MB should cover most applications. In case of a high throughput, e.g. when a large number of channels will be transmitted, or with a very high sampling rate, it makes sense to increase the buffer.
11. Enter the “Maximum Send Interval” in sec. (see ③ in Figure 4) This is the maximum time between 2 sent blocks via the PAK interface. The default setting of 0.1 sec should cover most applications.
12. Your setup for the PAK Live plugin in OXYGEN is finished now.

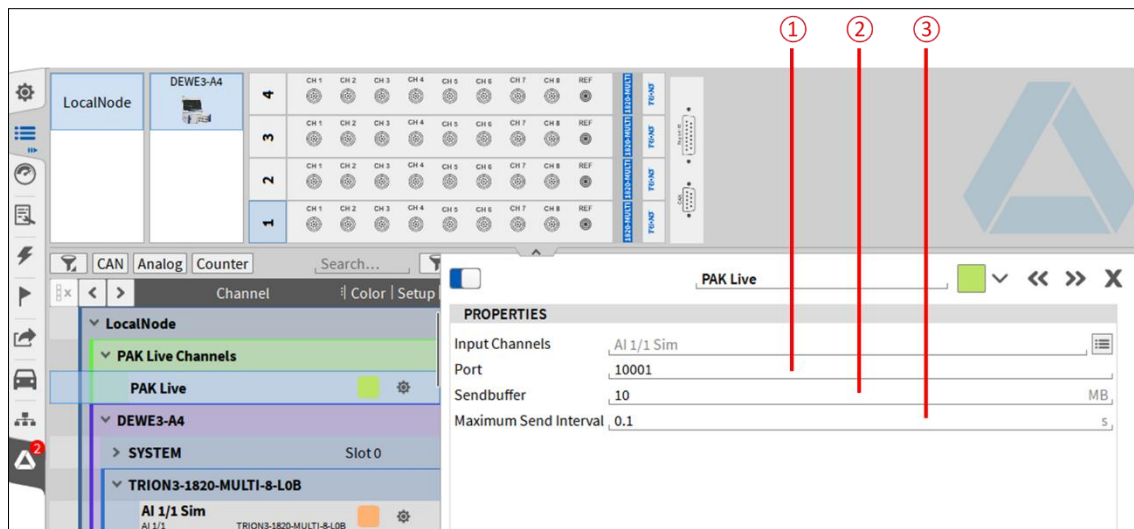


Figure 4: Properties of PAK Live channel

Starting with OXYGEN 7.7 the sync state of devices is forwarded as “PTP-Synced” to the PAK live.hub also when the PTP out option is enabled. In prior OXYGEN version, the PTP-Sync was only forwarded when the synchronization input was also PTP.

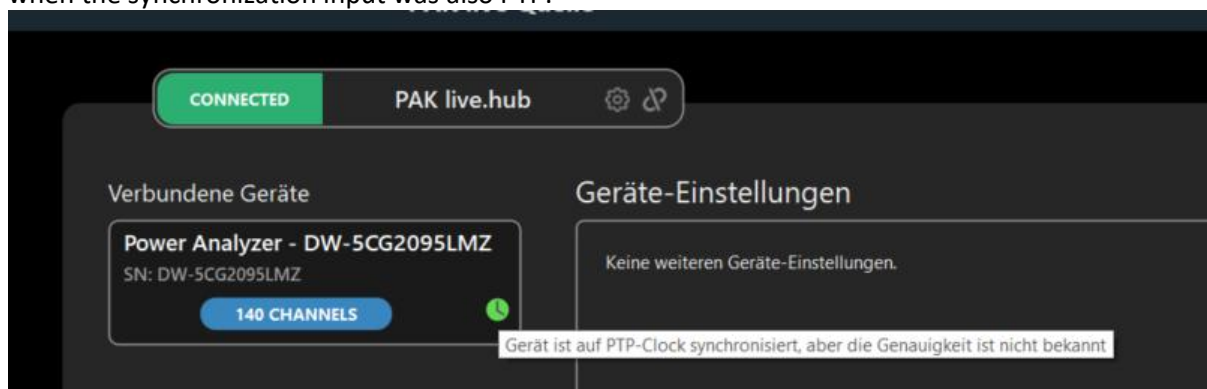


Figure 5: Properties of PAK Live channel

3 CONNECT TO PAK LIVE.HUB

After setting up the PAK Live plugin in OXYGEN it is possible to create a connection to the PAK live.hub service for starting to transfer the selected channels from your setup in OXYGEN.

To add a new connection, perform the following steps.

1. Press the button “ADD DATA SOURCE” (see ① in Figure 6)
2. Navigate to the “Address/Port” tab to enter your IP-address and port. (see ② in Figure 6)
3. Use the port from the settings of the PAK Live channel in your OXYGEN Setup (see Figure 6)
4. After entering the IP-Address and port, press the button “MANUALLY ADD DATA SOURCE” to create the connection (see ③ in Figure 6)

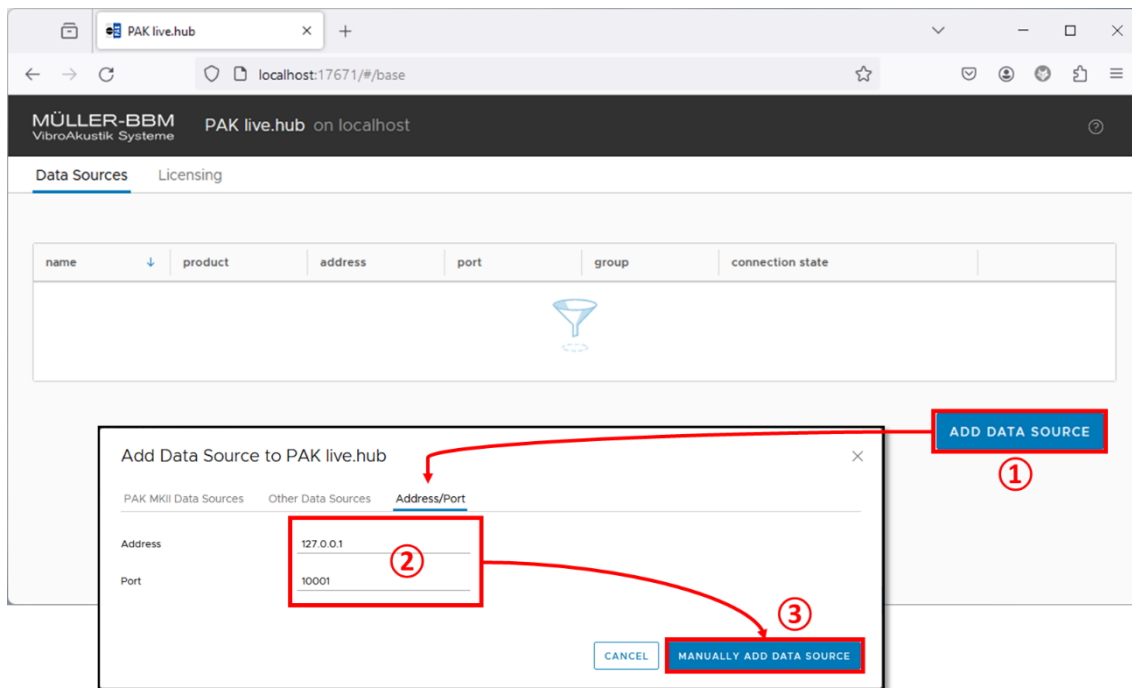


Figure 6: Create connection to PAK live.hub service

5. If all data has been entered correctly and OXYGEN is started, including the setup for the PAK Live channel, the connection state will switch automatically to “connected” (see Figure 7)

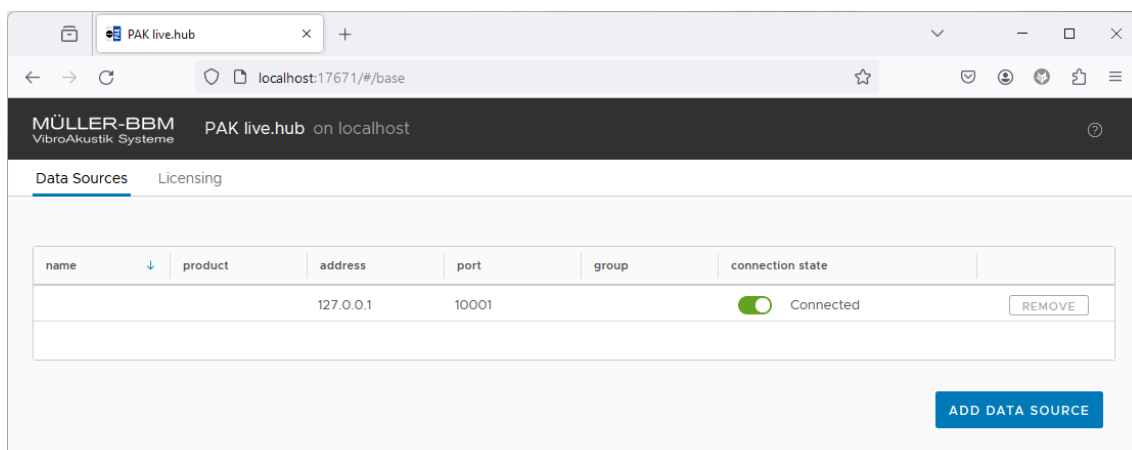


Figure 7: PAK live.hub service connected

4 TROUBLESHOOTING

If the connection is not possible, make sure

- there is a proper connection available
- the used IP-address and port number is correct
- that OXYGEN is running, and the PAK Live transfer channel is available and correctly parameterized. If the PAK Live transfer channel in the OXYGEN setup has not been parameterized, there will be displayed “Attempting to connect” in the PAK cloud IO service. (see Figure 8)

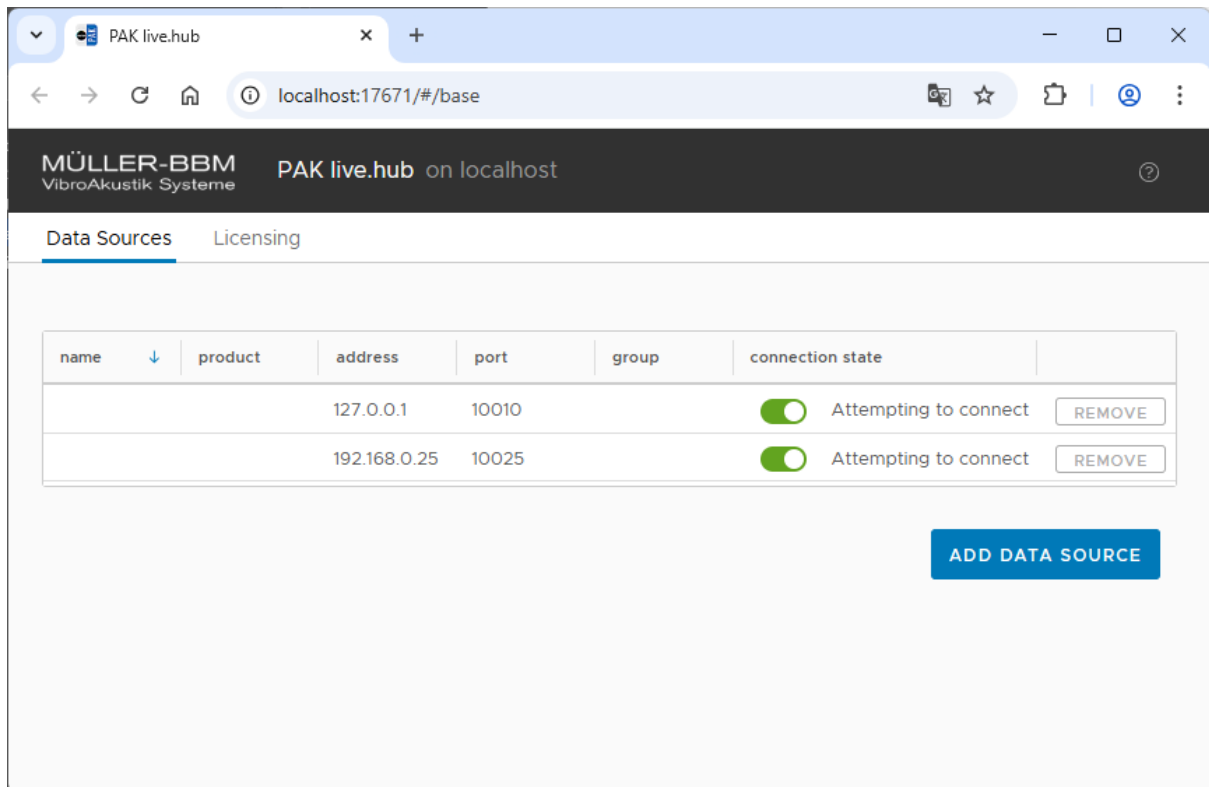


Figure 8: PAK Live.hub service attempting to connect

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