CamScripter App integration with CHESTER IoT Hub shows data in live stream

About the integration

CamScripter App integration with **CHESTER IoT Hub** from the Hardwario company makes it possible to display physical values (or other data) directly in the live stream.

At the request of our clients, we've created a micro-application that is able to download data from their specific products and automatically embeds them into live broadcasts. Another example is integration with IoT devices from the Hardwario company. The devices process data from a whole range of environmental sensors, making it possible to implement many IoT projects. Hardwario operates its own cloud, which makes it possible to access the measured values. That's why it seemed to us like an interesting idea to directly display the data from these great sensors dynamically in the camera image, allowing camera owners to better orient themselves.

What is the CHESTER IoT Hub?

CHESTER is the Internet-of-Things device useful for data telemetry of the connected systems, monitoring of a large variety of sensors, remote control, and location tracking. It communicates through LPWAN technologies, such as NB-IoT or LoRaWAN, even from the places where the regular internet connectivity is not available. The device features low power consumption and offers a reliable operation from a battery for up to 10 years. CHESTER can operate in outdoor and dusty environments.

The technical solution

We've created a micro-application that runs in the CamScripter App, which downloads data from the Hardwario company's application interface. This data is then displayed on the camera via the Custom Graphics widget. In this widget, values are embedded into the prepared graphics and then automatically updated every 60 seconds and during configuration changes.

Conclusion

"In this case, CamStreamer apps provide an overview of values directly in the video, which are important for specific projects, primarily in agriculture, forestry, water management, etc.," Filip Hanek, Product Manager of CamStreamer explains. Thus, it can help in solutions from the Hardwario company (monitoring air quality in the Liberec Zoo, controlling undesirable temperatures and humidity as stress prevention for the animals; monitoring heat and humidity in cable boxes; in British forests, etc.)

This integration will also be handy for situations where the camera covers an extensive area in which CHESTER IoT HUB devices collect data in various sites (e.g. data on ground soil moisture) and the camera owner wants to have data directly in the image for better orientation.

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How to set up this integration

How can we display current data from **CHESTER IoT Hub** device, which monitor physical values and are used in many fields?

We've created more **micro-applications** that run in the CamScripter App and download relevant data. You'll find out how below in our **use case**.

What do you need?

- An AXIS camera (check compatibility here)
- Our CamScripter App and CamOverlay App
- An IoT Hub CHESTER device
- Script for the CamScripter App on GitHuB
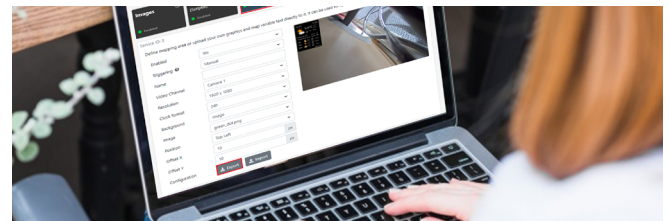
Tip: Get a **free 30-day license** on www.camstreamer.com. Try everything out before making a one-time purchase of the license.
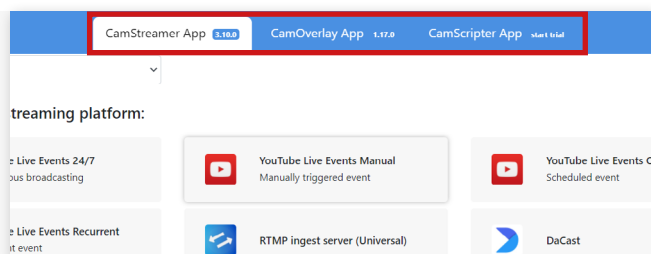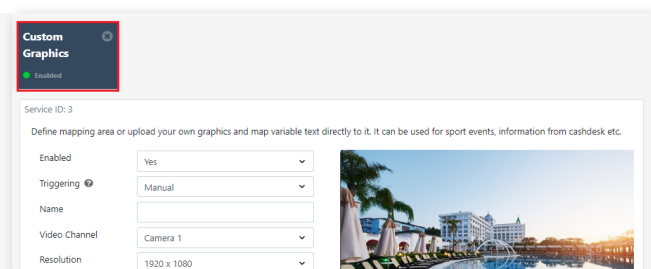
Steps to run it:

1. Install the CamScripter App and CamOverlay App in your camera (you can do this via the **upper bar** in the CamStreamer App).

2. Download the **current Hardwario package** at: https://github.com/CamStreamer/CamScripterApp_packages_to_use/blob/master/hardwario.zip
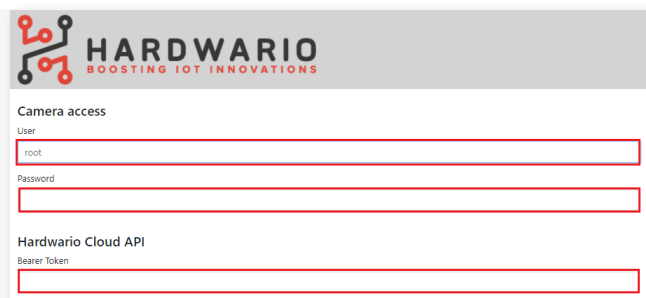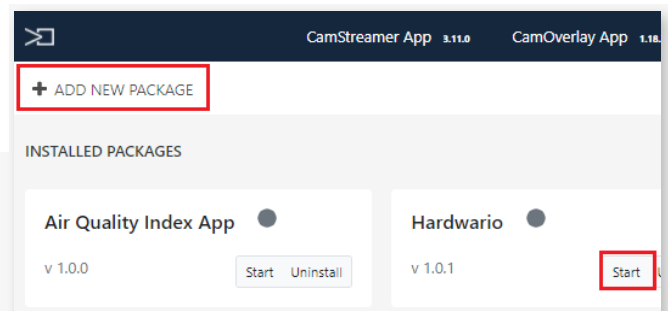
3. Import the **Hardwario_CamOverlayApp_Custom_Ovelay.json. file** to the **CamOverlay App** to the Custom Graphics service. Based on your resolution for broadcasting, select the **4k** or **FullHD** option. Change the widget to fit your needs in **Custom Graphics**.

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Tip: If the widget is modified in the CamOverlay App, either wait **60 seconds** for it to be displayed, or turn the micro-application **off** and then back on from the CamScripter App environment.

4. Upload the file „**hardwario.zip**" to the CamScripter App and press „**Start**". Open the **micro app** via the **settings icon**.
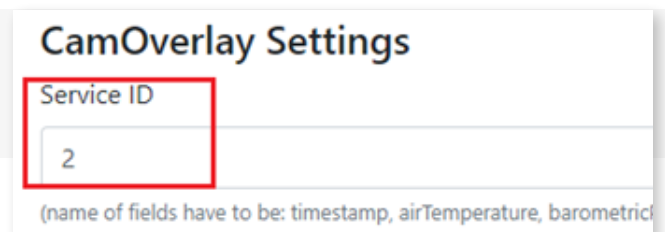

5. Insert your **ID** and **token** and select the **unit system** you want to use.

Each service in the **CamOverlay App** has its own ID, and the **correct ID** of the service in which data is to be displayed must be listed in the **micro-application's configuration.**

6. Set the **service ID** of **Custom Graphics** in the **CamOverlay App**.

Now, check out the widget in the picture!

If you have a request for a **tailor-made micro-application** to be created for you, please don't hesitate to **contact us**: support@camstreamer.com