

# XFS4IoT SP-Dev Workgroup

5<sup>th</sup> March 2024

# XFS4IoT SP-Dev Workgroup agenda



- Recap from previous meeting
- Update to templates and documents
- Camera SP demo
- What's next?
- Next meeting



# Recap from previous meeting

## Recap from previous meeting



#### Support for 2023-2 in the SP-Dev framework:

- Reviewed migration from current version to the 2023-2 specification
- Discussed Version Handling (how to set and check versions)
- Reviewed new features:
  - StatusChanged / Import EMVPublicKey / ImportKeyToken
- Regarding .NET support: Migrated to .NET 8 and C#12
- Some work still to do including:
  - Support for 'required' and 'default' properties in the framework
  - Enforce the JSON schema
  - Provide a camera sample

Demo showing migration of existing code to the new specification



# SP Framework updates

## **SP Framework and samples**



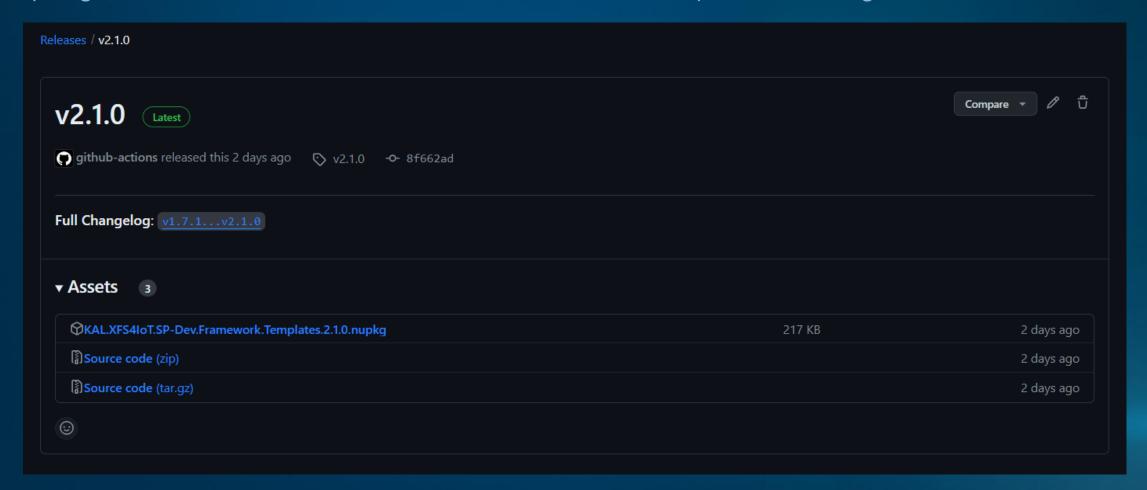
- SP Framework package 2.1.0 is available
- Camera SP framework is tested with the device implementation
- Added:
  - Camera SP sample in the SP project
  - Camera SP support in the test client application

# **SP Framework: templates**



New template package 2.1.0 is available:

https://github.com/KAL-ATM-Software/KAL\_XFS4IoT\_SP-Dev-Samples/releases/tag/v2.1.0



## **SP Framework: templates**



- Added Camera SP template project
- All template projects are .NET8
- Updated device interfaces along with SP framework package 2.0.0 or later

- SP-Dev Template installation steps
  - https://kal-atm-software.github.io/KAL\_XFS4IoT\_SP-Dev-Documentation/articles/Templates.html

### **SP Framework: documentation**



- Available on GitHub pages:
  - https://kal-atm-software.github.io/KAL\_XFS4IoT\_SP-Dev-Documentation/
- Contains complete API Reference for XFS4 SP-Dev Framework
- Articles on compiling the framework/samples, installing and using SP-Dev Templates
- Any requests for content let us know!



# Camera Demo

### The hardware

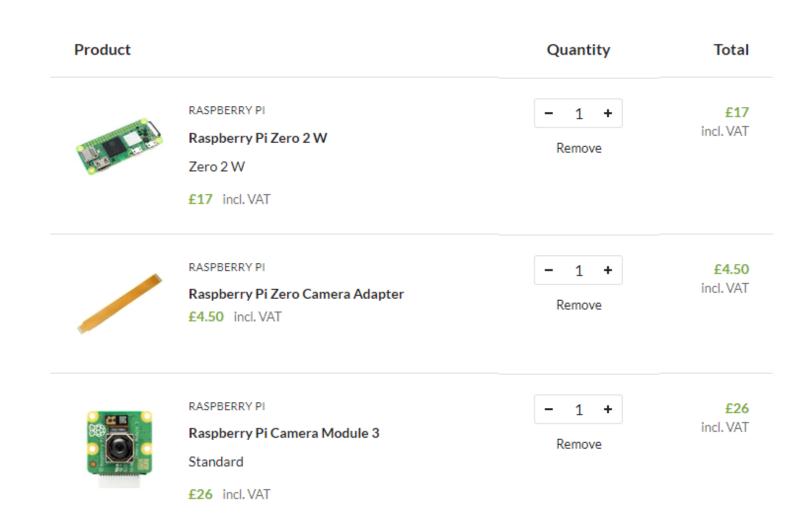


Raspberry Pi
Zero 2w

Camera Module

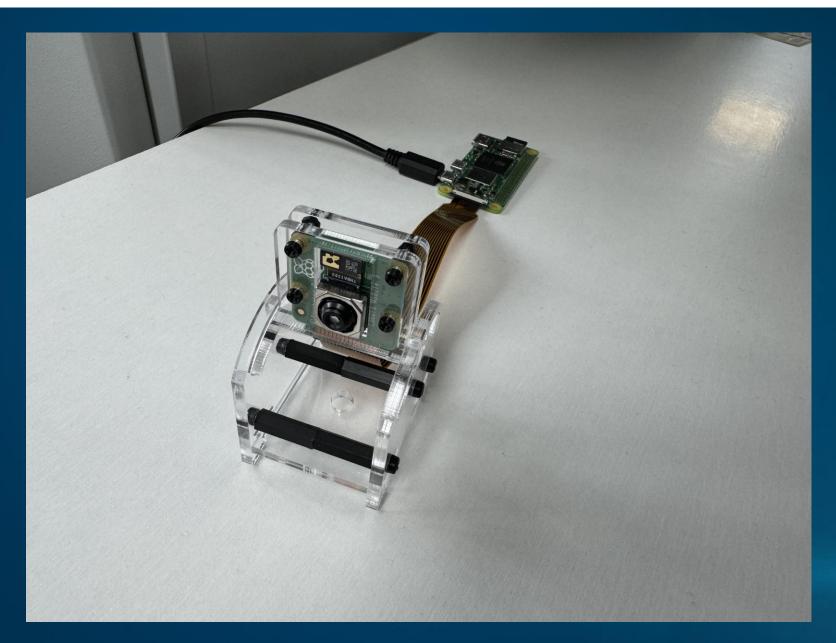
Adapter cable

• £47.50



### **C**amera





# **SP Implementation**



13 lines of code

- Adapted from the Camera sample
- Using existing libcamera library



**ATM Software** 

# Camera SP - demo

### **XFS4IoT Camera**



Add a camera to an existing device, without the hardware capability

Add an external camera over the network

Support for multiple cameras on the same Service Provider



# What's next?

### Demos, POCs and guest speakers



- More Framework updates
- Framework roadmap
- POCs and demos (Check scanner ...)
- More guest speakers

#### **Next call**



Zoom

 First Tuesday of each month at 1300 UK time for 30 mins

Next call: 2<sup>nd</sup> April 2024

1300 UK, 0800 US EST, 2100 Tokyo time

Calls are 30 mins long

We will continue to use Zoom

(Interpretation in Japanese, Chinese and Spanish is available using Zoom's interpretation feature)