

XFS4IoT SP-Dev Workgroup

3rd December 2024

XFS4IoT SP-Dev Workgroup agenda



- Recap from previous meeting
- TLS Answer question from previous meeting
- 2024 retrospective
- Recap of demos in 2024
- CEN specification update
- What's next?
- Next meeting



Recap from previous meeting

Recap from previous meetings



- SP-Dev framework v2.4
 - Corrections and updates
 - How to compare between releases on GitHub
- TLS encryption
 - What it is
 - Why it is important
 - TLS handshake
 - Demo on Windows using Wireshark



TLS - Authentication





Question from November's meeting:

Are there any plans to introduce some kind of Authentication for the initial HTTP/S call? I'm thinking of employing the HTTP Authorization header or URL query arguments to include a JWT token.

Options

- Mutual TLS client certificate used to authorise connections. How are certificates managed?
- 'Logon' process to gain token such as JWT. Requires 'logon' details how are these managed?
- Other options?



2024 XFS4IoT SP-Dev Workgroup Retrospective

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February 2024 meeting

- Support for XFS4IoT specification 2023-2 in the SP-Dev framework
 - Updated framework and samples were made available in the repository
 - All commands, events and parameters updated to the 2023-2 specification
- Migrated to .NET 8 and C# 12

March meeting

- Reviewed the availability of SP Framework package 2.1.0
- Documentation includes a complete API Reference for XFS4 SP-Dev Framework
- Migrated all template projects to .NET8

April meeting

Reviewed SP Framework support for Check Scanner (IPM: Item Processing Module in XFS 3)
including accept single or bundle of checks / Scan front and back generate images / Read code
line / Print

May meeting

Presentation by First National Bank (South Africa) discussing their work in supporting XFS4IoT

2024 XFS4IoT SP-Dev Workgroup Retrospective



June meeting

- Presentation by Synaforce (Germany) reviewing cloud-based ATMs project at Shell stations
 - Discussed plans to improve interoperability by using XFS4IoT

July / August – summer break

September meeting

Presentation by SBS (Germany) – overview of DK ("German specific interface") specification & certification overview including changes and status of DK for XFS4IoT

October – no meeting

November meeting

- Overview of the updated SP-Dev Framework v2.4
- Presented how Transport Layer Security (TLS) works and its importance to XFS4IoT

December – last meeting of 2024



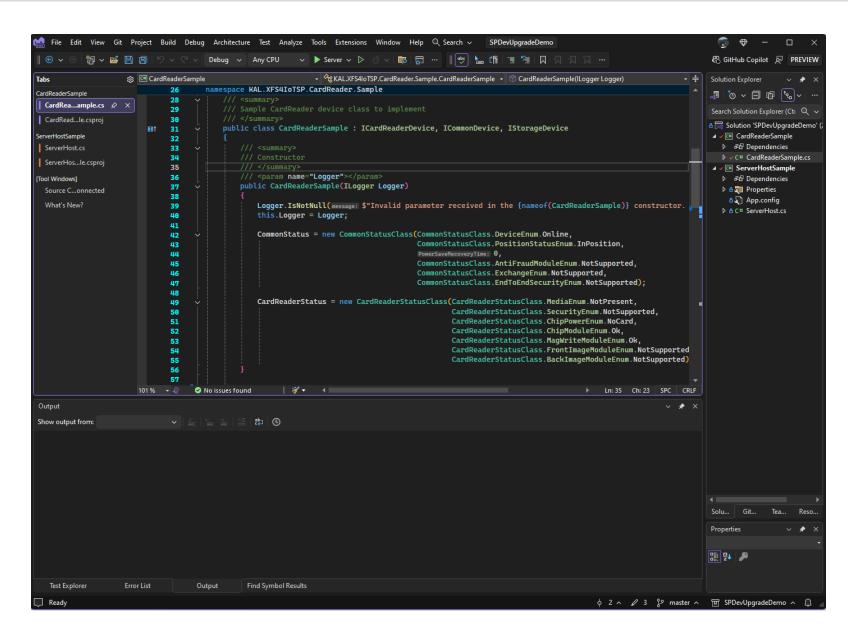
2024 - Demos

February: Migrating Card Reader Sample



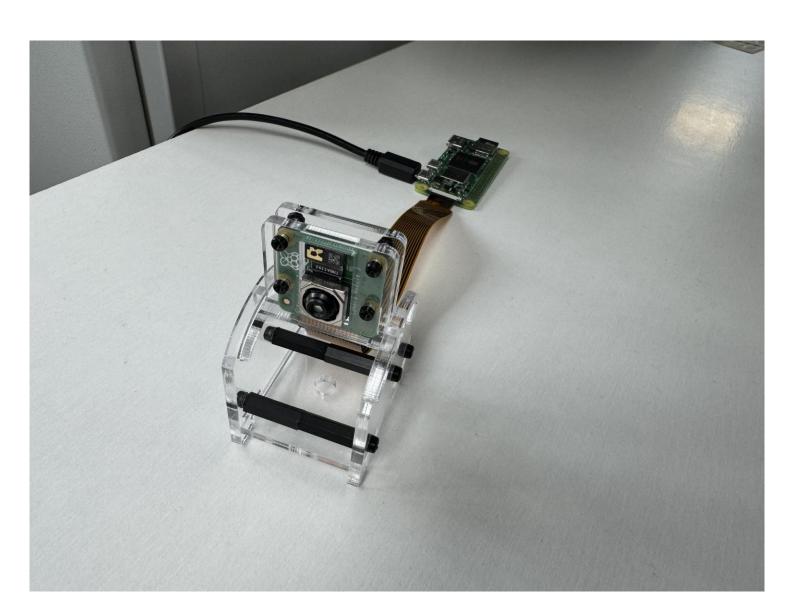
Updated
 CardReader
 sample to
 XFS4 2023-2

Update Package version using NuGet



March: Camera SP on low-cost Raspberry Pi system





Low-cost device

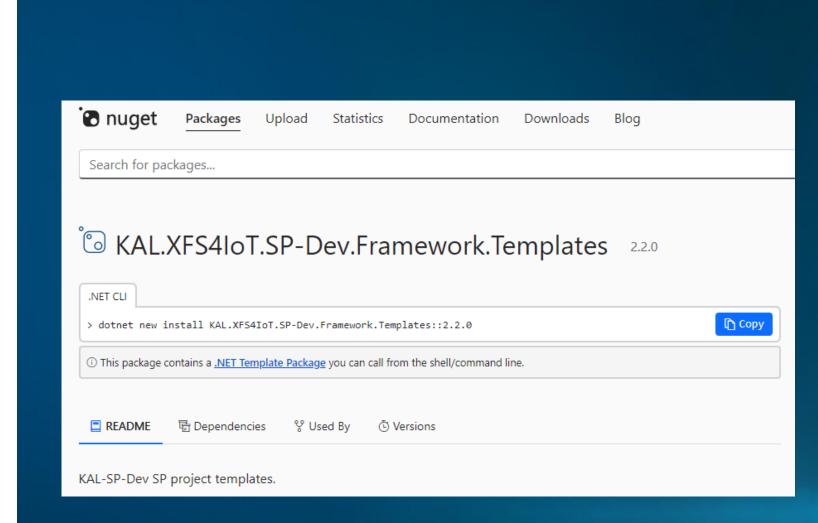
- 13 lines of code on top of Camera Sample SP
- Connection over Wi-Fi

April: Check scanner and creating a camera SP



Check scanner demo

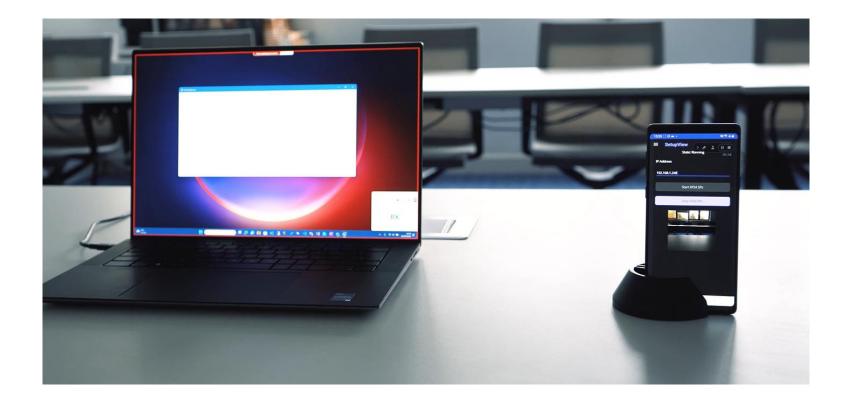
- Templates demo
- Creating the camera SP from March live



May: Camera SP on Android phone



- Camera SP on Android phone
- Using .NET MAUI

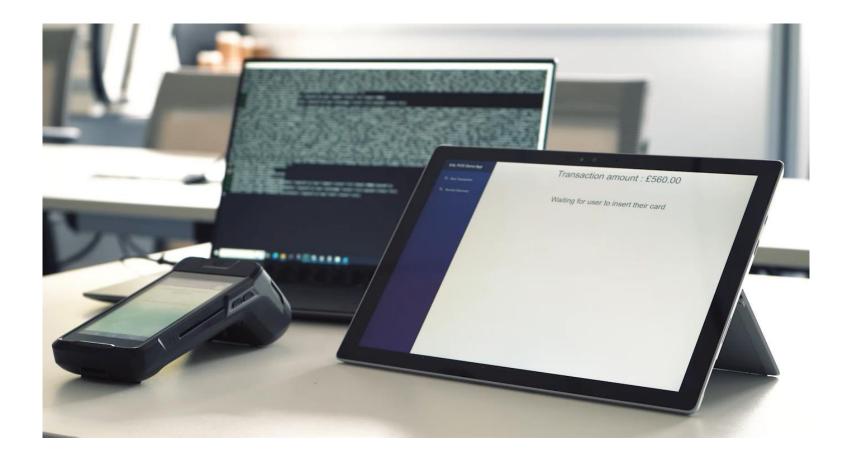


June: Service Providers on Android POS device



 XFS4 SP running on Android POS device

 Operator UI on separate tablet

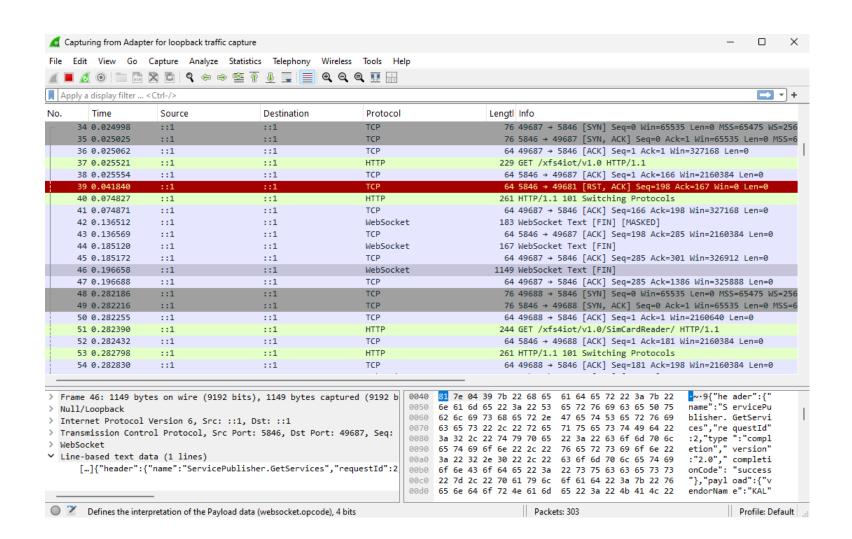


November: TLS Encryption



Demo HTTP and HTTPS connection to SP

Wireshark
 used to view
 network traffic





CEN specification update

CEN – specification update



Workshop in Paris 13th/14th of November
Aim to finalise 2024 release of specification before the end of year

- New banknote neutralisation interface
- New power management interface
- Support for German DK card specification
- Data sensitivity information on fields
- New JSON form format for text terminal and printer
- Many improvements, clarifications, and fixes



What's next?

What's next?



- Framework updates and roadmap
- Migrating to new specification versions
- DK
- More guest speakers
- More demos (contactless card reader, biometrics, and more)

Next call



Zoom

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

Next call: 4th February 2025

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)