

XFS4IoT SP-Dev Workgroup

1 February 2022

XFS4IoT SP-Dev Workgroup Agenda



- Recap from previous meeting
- XFS4IoT Specification first release and what it means for the industry
- Auxiliaries release
- VendorMode and VendorApplication release
- XFS4IoT SP-Dev framework overview
- What's next

XFS4IoT Workgroup Progress



- Frameworks are now completed to support a complete Cash Out ATM. All now available with C# and C++ sample code released and demos on YouTube.
 - ☑ Card Reader (released May 2021) with support for dispensing (Nov-21)
 - ☑ Cash Dispenser (Jul-21), without end-to-end security
 - ☑ Text Terminal Unit (Jul-21)
 - ☑ EPP Key Management and Crypto classes (Sep-21)
 - ☑ Keyboard and PinPad classes (Oct-21)
 - ☑ End-to-end security partially complete (Oct-21); added required functions (Nov-21)
 - ✓ Printer / Guide lights (Nov-21)
 - ☑ Vendor Mode and Vendor Application (Jan-22)
 - ✓ Auxiliaries (Jan-22)

The XFS4IoT spec is ready



- The Global CEN XFS Committee has released the official version of XFS4IoT to the European CEN organization for publication
- The official <u>specification 2021-1 release candidate</u> is publicly available on GitHub prior to final publication by CEN
- The workgroup's framework has been updated to support the published version of the XFS4IoT spec

XFS4IoT Workgroup



- The XFS4IoT specification was published and the Workgroup's framework code was updated and is available
- It is time to implement production XFS4 SPs



Auxiliaries class release

Auxiliaries support



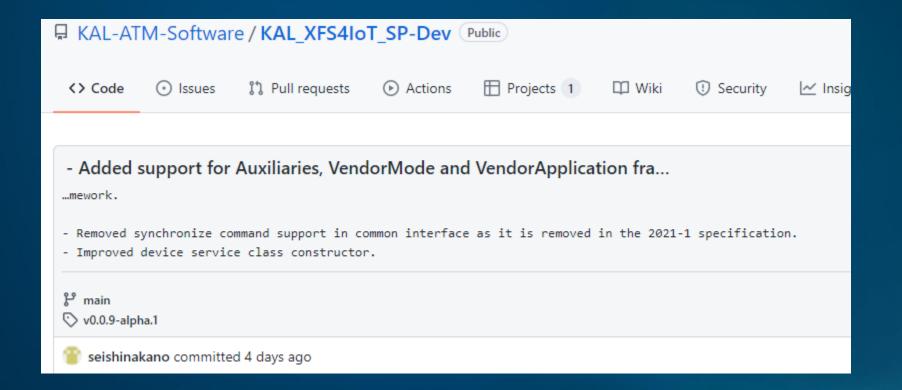
Auxiliaries class now available:

☐ KAL-ATM-Software / KAL_XFS4IoT_SP-Dev Public								
<> Code	Issues	ያን Pull requests	Actions	Projects 1	□ Wiki	① Security	✓ Insights	భు Settings
			່ P main ▼ KAL_XFS4IoT_SP-Dev / Framework / Core /					
	seishinakano - Added support for Auxiliaries, VendorMode and VendorApplication fra							cation fra
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Auxiliaries support



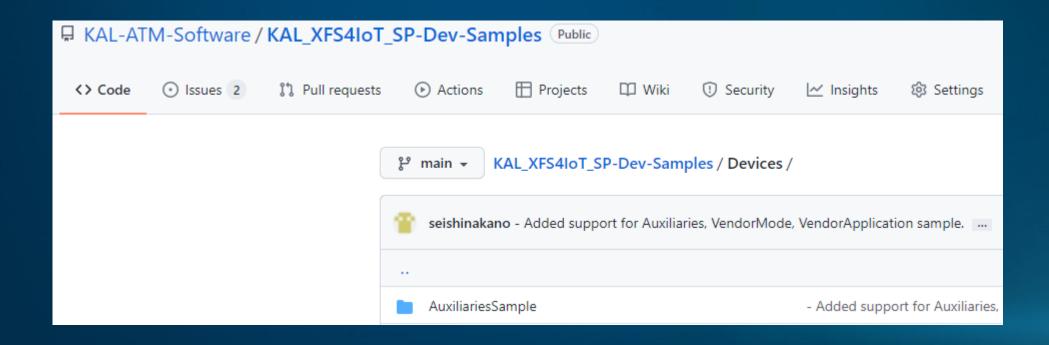
Details of the changes in the following commit:



Auxiliaries support



- Sample available
- Specific commit for all sample changes:



Functions supported



- Device support includes:
- Sensors
- Doors
- Indicators
- UPS

This class is known as SIU in XFS3 which is now split between Lights and Auxiliaries interfaces in XFS4IoT

Functions supported



 SetAuxiliaries command allow to control the main settings such as SafeDoor, CabinetDoors, Audio & Volume Alarm and many more

 The AuxiliaryStatusEvent class supports events reporting states for the different sensors, switches, doors...

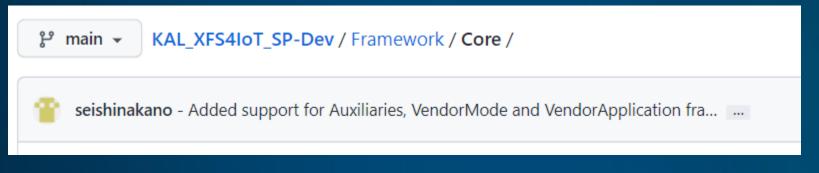


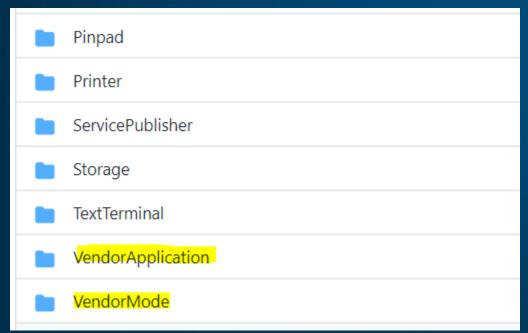
VendorMode and VendorApplication classes release

VendorMode & VendorApplication support



Both classes now available:

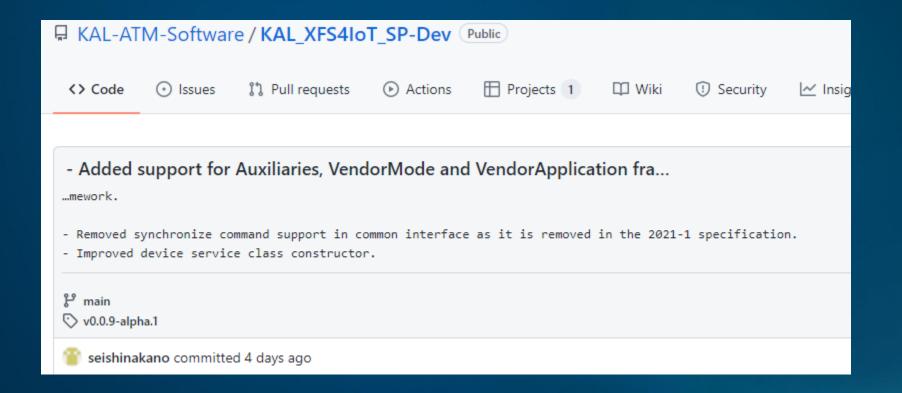




VendorMode & VendorApplication support



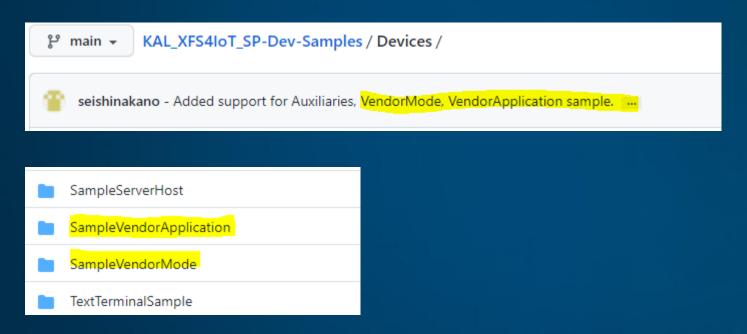
Details of the changes in the following commit:



VendorMode & VendorApplication support



Samples available



What is supported?



 VDM class in XFS3 now split between VendorMode and VendorApplication interfaces in XFS4IoT

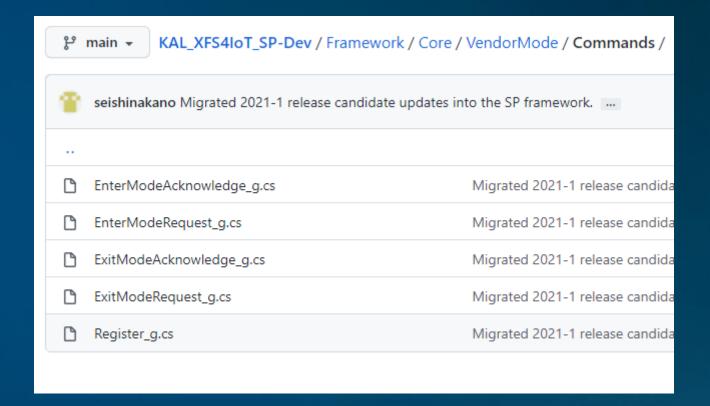
More flexible – each device can have its own vendor application

ATM application can control a single device entering/exiting vendor mode

Functions supported



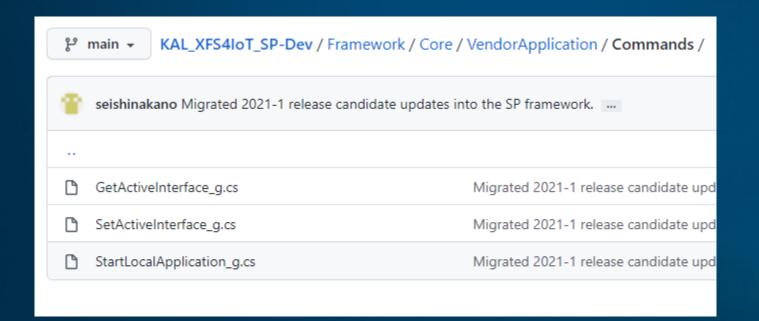
- VendorMode supports:
- Commands to enter and exit vendor mode
- Events reporting accordingly vendor mode entered and exited



Functions supported



- VendorApplication supports:
- Set and get the interface to display the vendor application in
- Start the vendor application via StartLocalApplication command



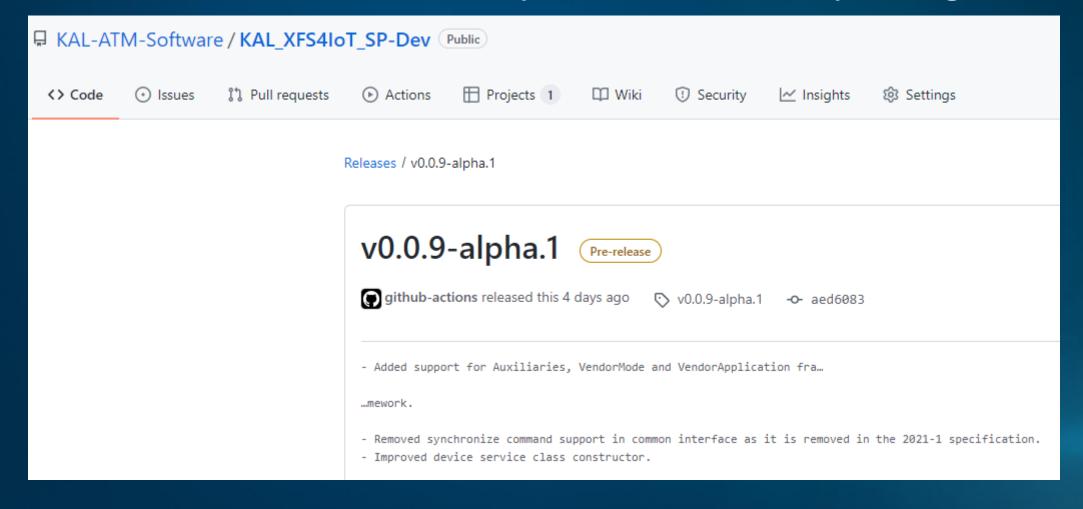


Status, roadmap and what's next

Latest Pre-release support



Latest Pre-release v.0.0.9-alpha.1 for NuGet packages



Framework status



- Support for all main devices on Cash out ATM
- Support of the new E2E security and Service Discovery features
- Samples available for all the classes supported
- Many demo videos available on the KAL ATM Software YouTube channel <u>here</u>

Roadmap and what's next



- Support for full Cash Out ATM ready now including VendorMode,
 VendorApplication and Auxiliaries
- The official specification 2021-1 release candidate is publicly available on GitHub
- Framework is updated and compliant with the latest 2021-1 release and will keep being updated regularly

Roadmap and what's next



- Support for acceptor and recycler machines
- Next interfaces to come:
- BarcodeReader
- Camera
- Biometric
- CashAcceptor

The next steps according to KAL



- XFS4IoT SPs to be developed
- XFS4IoT is already part of RFPs
- XFS4IoT will evolve faster than XFS3 ever did
- The CEN XFS committee is targeting mid of 2022 for the next release of the CEN XFS4IoT Specification

Next call



MS Teams

• First Tuesday of each month at 1300 UK time

Next call: 1st March 2022, 1300 UK, 0800 US EST, 2200 Tokyo time