



ATM Software

XFS4IoT SP-Dev Workgroup

6 Sept 2022

- Recap from previous meeting
- Update on the next CEN specification release
- Latest changes in the SP-Dev Framework and Release 1.3.0
- What's next?

Recap from previous meeting

- Framework support for full Cash-out, Cash-In and Recycler ATMs
- Up-to-date with 2021-1 specification release
- XFS4IoT videos created and shared on the "KAL ATM Software" YouTube channel
- SP framework code samples available on GitHub for each device that we have released
- There is XFS4IoT SP-Dev documentation on GitHub
- SP-Dev NuGet packages are available on nuget.org for each framework release

- Templates available:
 - Starting point for creating an XFS4 Service Provider
 - Supplied as a NuGet package
 - Installation/How to use it?/What it does
- FAQs:
 - Readiness
 - What is needed
 - Freedom of licensing

Update on the next CEN specification release

- Originally planned for mid-2022
- Delayed to Q3 2022
- Work in progress:
 - E2E security (other device commands...)
 - Cheque deposit interface
 - Clarification
 - Update to Business plan
 - And more...

Latest changes in the SP-Dev Framework and Release 1.3.0

- Pull request from workgroup members:
 - New method PrintFormHandler in barcode reader
 - Change ClientConnection to receive bytes in chunks of 2mb until the end of the message
 - Typo fixes

- Technical changes:
 - Fix barcode SymbologiesEnum to define the values correctly
 - Fix exception in CashManagement.GetBanknoteTypes handler
 - Fix NullReferenceException in Keyboard.DefineLayoutHandler
 - Fix typo in CardReader capabilities from Pard to Park

- Technical changes (2):
 - Allow empty transactionid when setting transaction state
 - Update E2E status property to allow setting by the SP implementation
 - Update to return correct LayoutFrames on Keyboard.GetLayout request
 - Accept null symbologies in BarcodeReader.ReadBarcode to read all supported symbologies
 - Allow biometric AlgorithmEnum.None to be returned on read request

- Technical changes (3):
 - Added CallerArgumentExpression to Contracts.cs to provide more information on assertions
 - Added call to perform MediaControl when requested in PrintFormHandler when DirectFormPrintAsync is used
 - Add IServiceConfiguration to optionally provide the desired service URI

- Technical changes (4):
 - Added ISO4 PinFormatEnum
 - Support PinPad ValidationAlgorithms, Display, PresentationAlgorithms, PinFormats on capabilities request
 - Add new exception types to map to XFS4 completion codes
 - Support CancellationToken throughout the framework
 - Breaking change in SP implementation – RunAsync() changed to RunAsync(CancellationToken Token)

SP-Dev Framework update

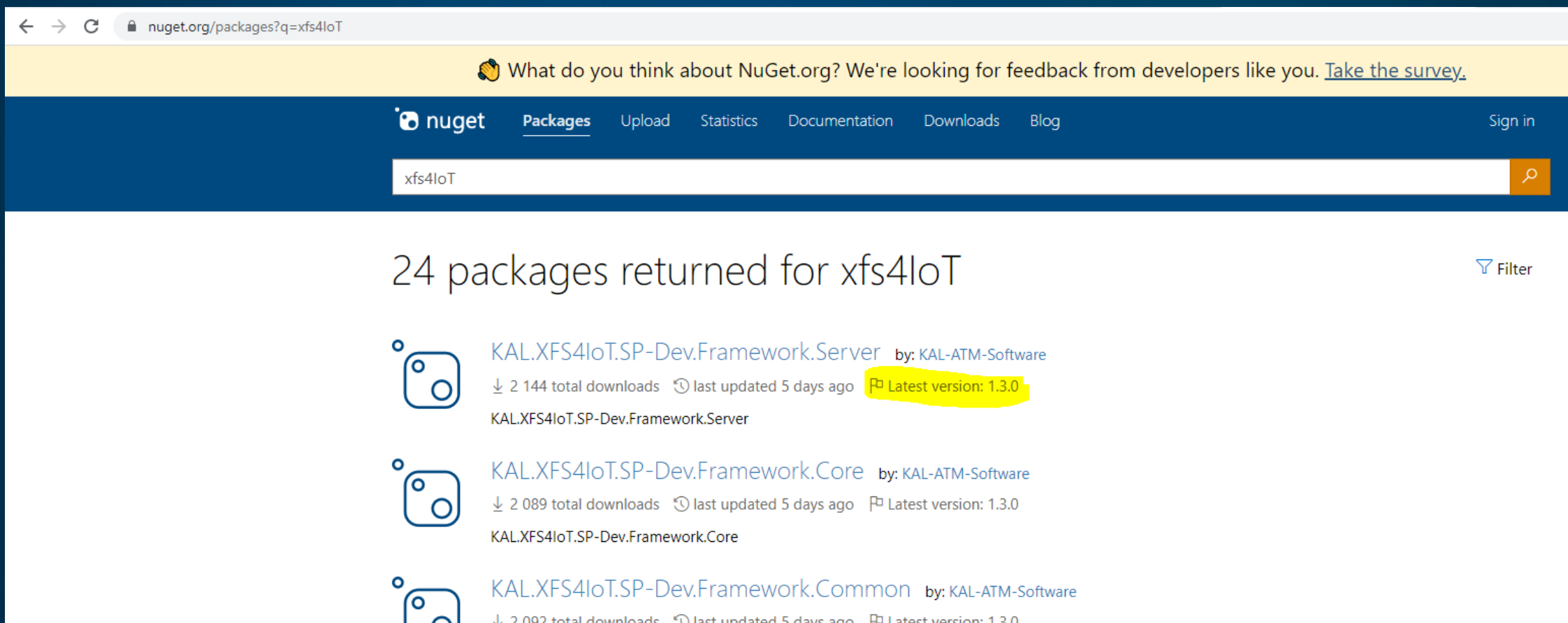


- Release 1.3.0 is now available via GitHub...

The screenshot shows the GitHub repository page for `KAL-ATM-Software / KAL_XFS4IoT_SP-Dev`, which is a public repository. The navigation bar includes links for Code, Issues, Pull requests, Actions, Projects (1), Wiki, Security, Insights, and Settings. The main content area displays the `Releases / v1.3.0` section. The release `v1.3.0` is marked as the latest version. It was released by `github-actions` 5 days ago, with the version tag `v1.3.0` and commit hash `328b4e1`. The release notes list the following updates:

- Added support for barcode in `PrintFormHandler`
- Fix typo position to position
- Change `ClientConnection` to receive bytes in chunks of 2mb until the end of the message
- Fix barcode `SymbologiesEnum` to define the values correctly
- Fix exception in `CashManagement.GetBanknoteTypes` handler
- Accept null symbologies in `BarcodeReader.ReadBarcode` to read all supported symbologies
- Add `IServiceConfiguration` to optionally provide the desired service URI
- Support `CancellationToken` throughout the framework

- ...but also published on nuget.org as usual



The screenshot shows the NuGet.org website with the search results for 'xfs4IoT'. The browser address bar shows 'nuget.org/packages?q=xfs4IoT'. A yellow banner at the top asks for feedback. The navigation bar includes links for 'nuget', 'Packages', 'Upload', 'Statistics', 'Documentation', 'Downloads', 'Blog', and 'Sign in'. The search bar contains 'xfs4IoT'. The results show 24 packages returned. The first three packages are listed:

Package Name	Author	Downloads	Last Updated	Latest Version
KAL.XFS4IoT.SP-Dev.Framework.Server	KAL-ATM-Software	2 144 total downloads	last updated 5 days ago	1.3.0
KAL.XFS4IoT.SP-Dev.Framework.Core	KAL-ATM-Software	2 089 total downloads	last updated 5 days ago	1.3.0
KAL.XFS4IoT.SP-Dev.Framework.Common	KAL-ATM-Software	2 092 total downloads	last updated 5 days ago	1.3.0



What's next?

- Working with the CEN XFS Committee to finalise the next specification release for Q3 2022
- Keep the SP-Dev framework up to date with CEN XFS specification
- Finalise E2E security support
- Include TPM framework
- Continue to fine-tune SP-Dev framework through experience/feedback from XFS4 SPs development and workgroup members

Zoom

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

Next call: 4th October 2022, 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 available using Zoom's interpretation feature)