

# XFS4IoT SP-Dev Workgroup

3 May 2022

## Recap from previous meeting



- Framework migration to .Net6
- Cash acceptor release and KAL demo
- Framework release 1.0.0
- TPM framework



# Guest speaker: GPT



## WHO ARE WE

- GPT was established in 1997 as a supplier of bill validators to the casino industry;
- Since our inception we have expanded our product portfolio to include a comprehensive range of currency handling solutions;
- Distributing products such as Glory, Scan Coin & Sallen to the Gaming, Retail, Banking and CIT markets;
- GPT were acquired by Bidvest LTD in 2003, Bidvest is now represented on 4 continents with an annual turnover of 4 Billion USD.
- GPT is represented throughout South Africa and is currently providing solutions in 15 countries on the African continent.

## WHAT DO WE DO...

- Our core focus areas being: Hardware sales and implementations, Software Solutions and Equipment
- end-to-end sourcing and supply of hardware
- customised software solutions and collaborative development initiatives
- Support and Maintenance programmes to support customer requirements
- Migrating devices and solutions to XFS 4 using the KAL framework



## Framework documentation

## Framework documentation



 Documentation hosted as a static website on GitHub Pages

Generated using DocFx tool



#### **KAL XFS4IoT SP-Dev Documentation**

#### Introduction

KAL's XFS4IoT SP-Dev is an open source implementation of the revolutionary new XFS version 4 global standard. It is ready for the IoT era and paves the way for a cloud-based, secure, OS-agnostic ATM industry.

This pioneering framework will enable hardware manufacturers and vendors to quickly create XFS4IoT SPs and offers numerous benefits. As well as being OS-agnostic, it is multivendor and works with hardware from multiple vendors, providing banks with greater choice, enhanced security and lower costs.

#### Becoming involved in the SP-Dev project

Hardware and software vendors, test software suppliers and application developers are all invited to join a working group to help develop the new framework, which will be available under the MIT open source license.

To find out more about this exciting new project and how you can get involved in shaping the ground-breaking XFS4IoT SP-Dev framework by contacting us @ xfs4iot\_sp-dev\_info@kal.com

#### Nuget

All NuGet packages are available here on NuGet.org

#### IN THIS ARTICLE

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Nuget

Sample Projects

## **Manual documentation**



 Articles documentation created from markdown files

 Guides to build the Framework and Samples available

Articles Articles / Building SP-Dev / Building the SP-Dev Samples ▼ Enter here to filter... Building the SP-Dev Samples Introduction - Building SP-Dev Using the Samples Repository Building the SP-Dev Framework **Building the SP-Dev Samples** The C# sample references the Framework NuGet packages available here. The C++/CLI sample uses a direct reference to the DIIs within DevicesCpp/SampleCardReader/References32 taken from the NuGet packages. Building the C# sample simulator 1. Clone KAL\_XFS4IoT\_SP-Dev-Samples repository from https://github.com/KAL-ATM-Software/KAL XFS4IoT SP-Dev-Samples. 2. Install Visual Studio 2022 and .Net6 SDK or runtime. 3. Make sure online nuget package source is configured. Menu->Tools->NuGet Package Manager->Package

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Using the Samples Repository

Building the C# sample simulator

Building the sample client application

Building the C++/CLI sample simulator

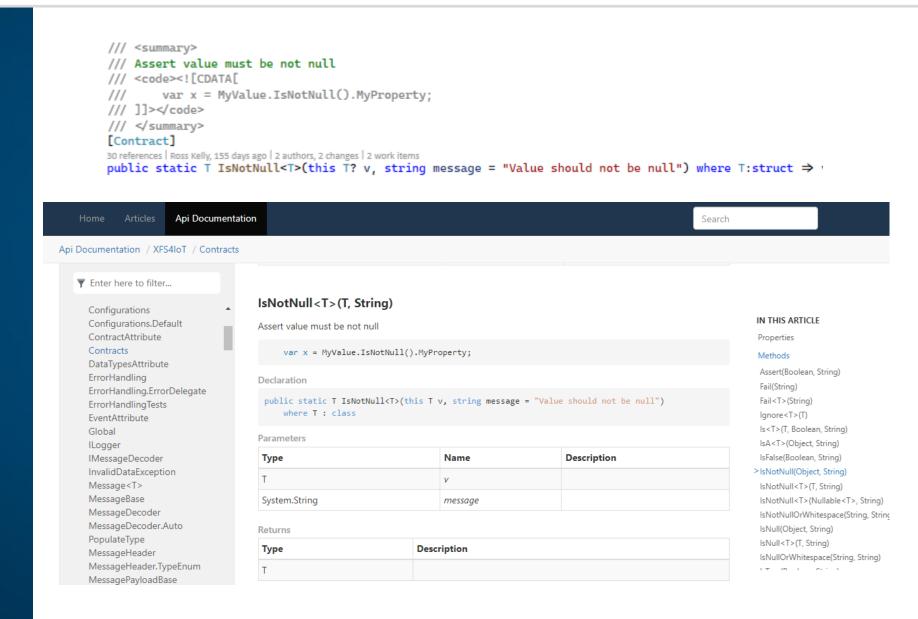
Manager Settings->Package Sources has online location https://api.nuget.org/v3/index.json. For offline environment, all XFS4IoT framework NuGet packages need to be downloaded first and point offline location where the downloaded packages are stored locally in the package manager settings. The nuget packages are availble from KAL\_XFS4IoT\_SP-Dev repositry, https://github.com/KAL-ATM-

## **Creating the API documentation**



Comments
 extracted from
 all SP-Dev
 Framework
 classes

Presented as an API Reference



## **Documentation roadmap**



Currently API Documentation and guides to build SP-Dev projects are available

- Plan to expand guides further and include frequently asked questions
- Documentation will be updated with each framework release

- Pull Requests welcome to add comments within the Framework
  - We will be working on this internally too

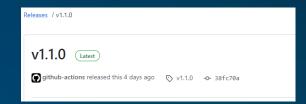


# Framework update and next meeting

## Framework update



New Release version 1.1.0 available



- Commits include all the changes for issues and feedback reported by members
  - Issues have been created on GitHub

- Update in the sample framework including for NuGet package setup
- Any feedback, bugs, changes can reported/suggested to KAL via GitHub (Issues, Pull requests...)

## **Next call**



Zoom

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

Next call: 7<sup>th</sup> June 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 using Zoom's interpretation feature)