



ATM Software

XFS4IoT SP-Dev Workgroup

7th May 2024

- Recap from previous meeting
- Presentation from FNB South Africa
- Demo using Android
- What's next?
- Next meeting

Recap from previous meeting

- SP Framework Check Scanner support
 - IPM (Item Processing Module) in XFS 3.xx
 - Accept a single check or a bundle of checks
 - Scan front/back of a check and generate images
 - Read code line on the check
 - Print on the check
 - Available SP Framework, Template, and sample code
- Template demo : Camera
 - Creating a complete camera SP with the code template



Presentation from FNB

XFS4IOT



WHO ARE WE

First National Bank – based in South Africa.

- We are an Inhouse ATM development team
- Currently on XFS for Windows
- Looking to move to XFS4IOT (OS Agnostic Win/Linux)
- We are two developers on the XFS4IOT journey
- We have a passion for new technology and making things work

WHY

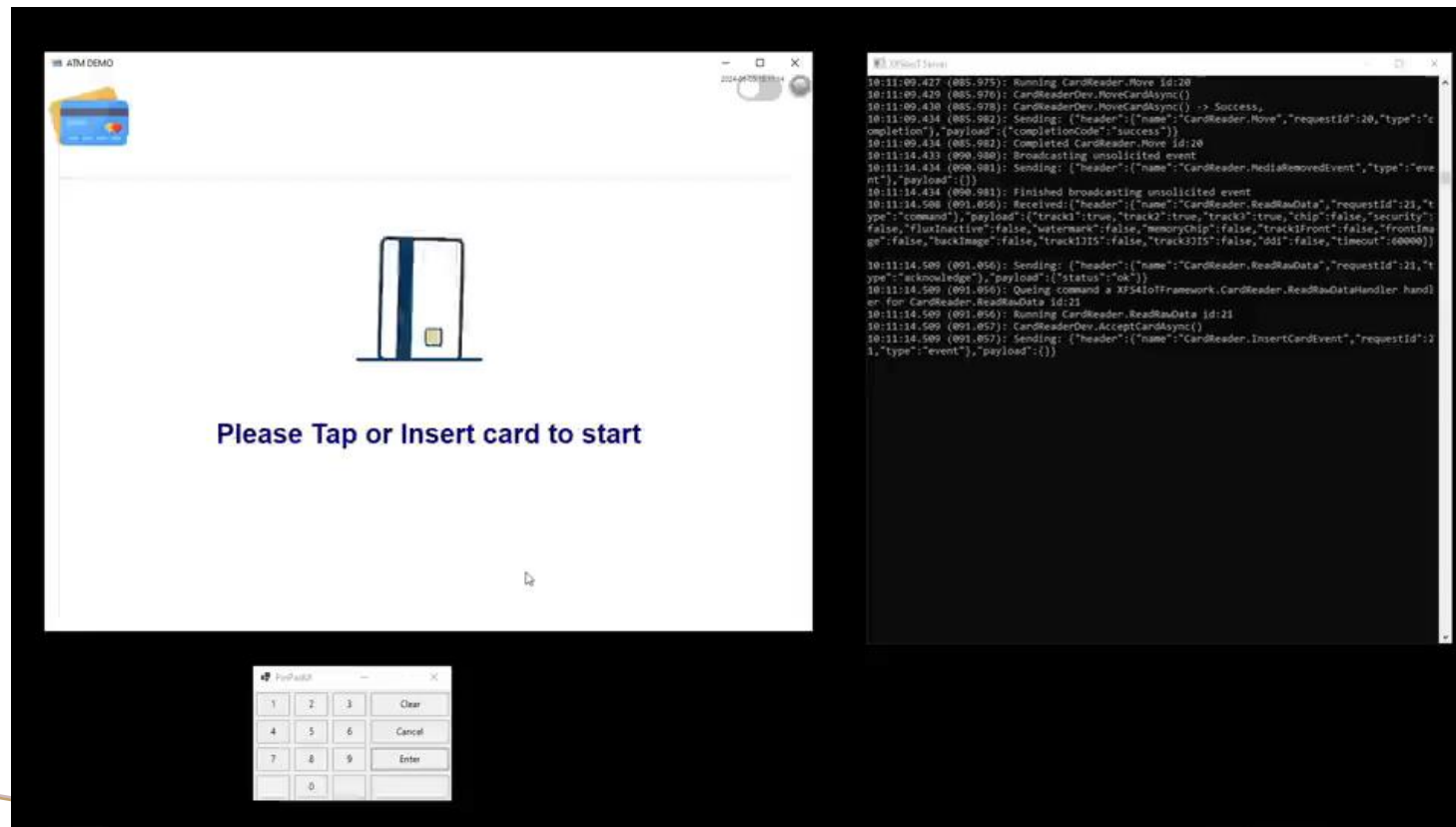
- OS Agnostic – (Windows and Linux)
- Ransom licensing
 - Windows upgrades are very expensive, often requiring very expensive hardware upgrades
- Cost reduction
 - We need to reduce the cost of customer transactions



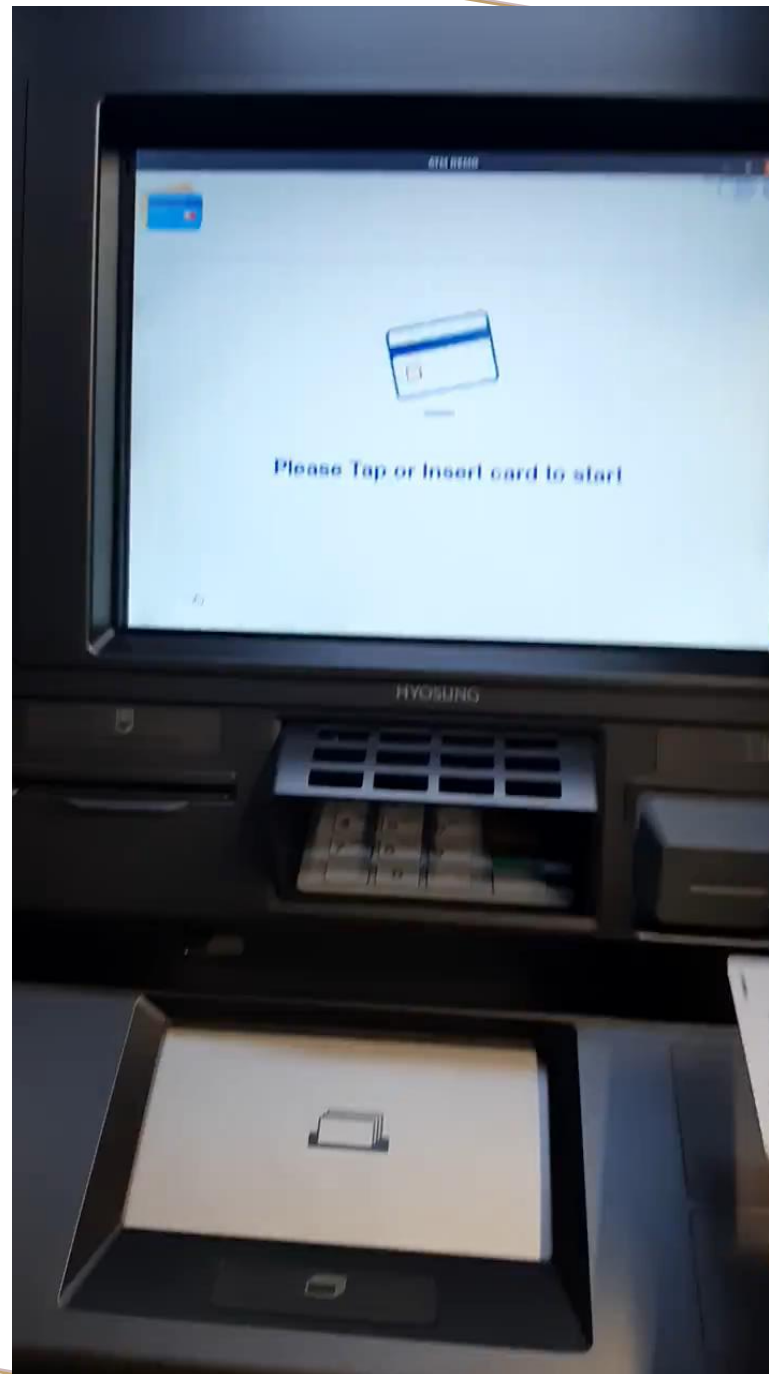
HOW AND WHAT

- XFS4IOT Simulator – KAL
- XFS4IOT SPs – Hyosung (Collaboration)
- XFS4IOT Wrapper – Bespoke development
 - Socket Management
 - Workflows / Logic
 - Backend Integration
- GUI – Bespoke development
 - HTML 5 / CSS / JavaScript

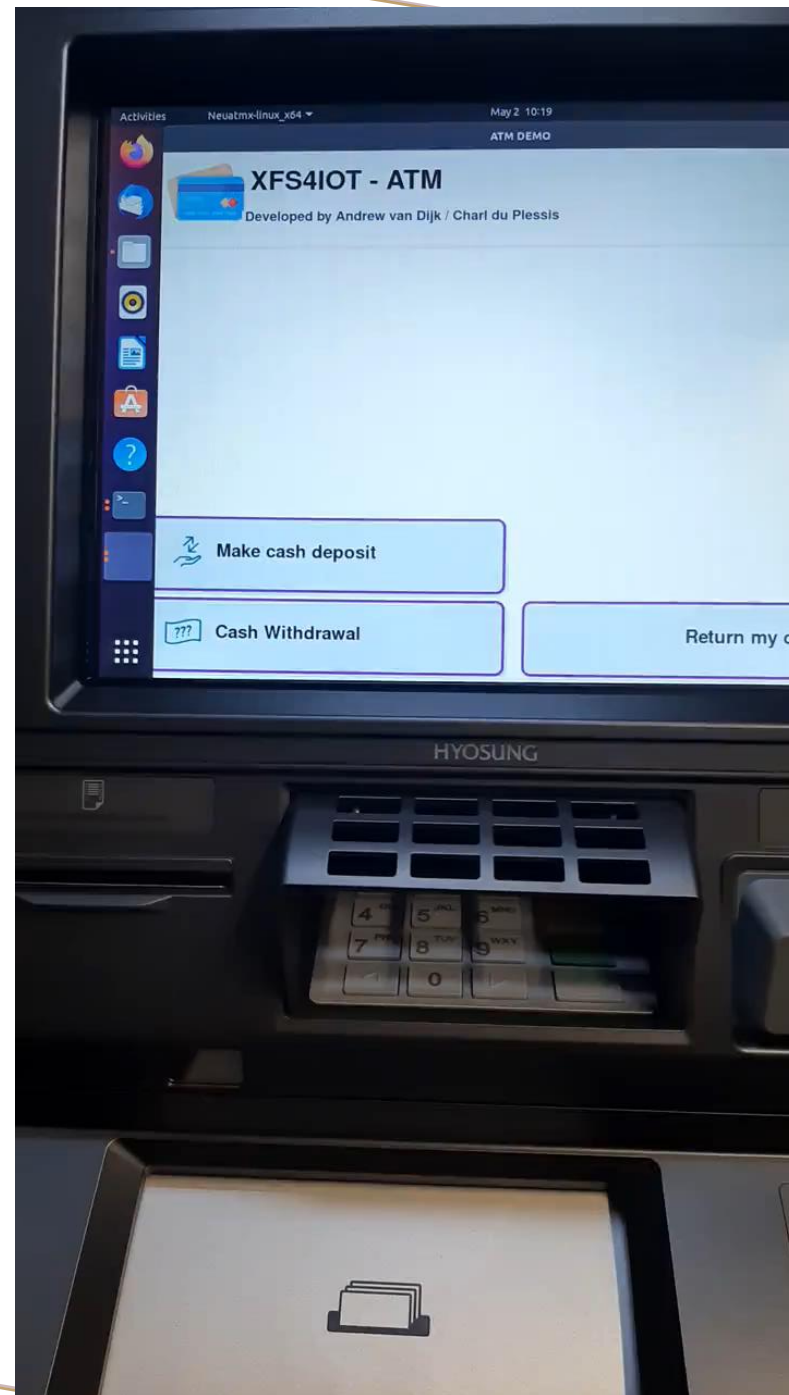
DESKTOP DEVELOPMENT ON WINDOWS



CARD READER ON LINUX



CASH DEPOSIT ON LINUX



WHAT'S NEXT

Aligning simulator messages with device (vendor) messages

Hunting for inconsistencies

We have covered basic positive workflows, next is negative workflows

When things go wrong, what to do

Refactoring and enhancing our framework

FINAL TIPS

Use the simulator for offline development

Test often on a real device

Do take time to play with the simulator and the test applications

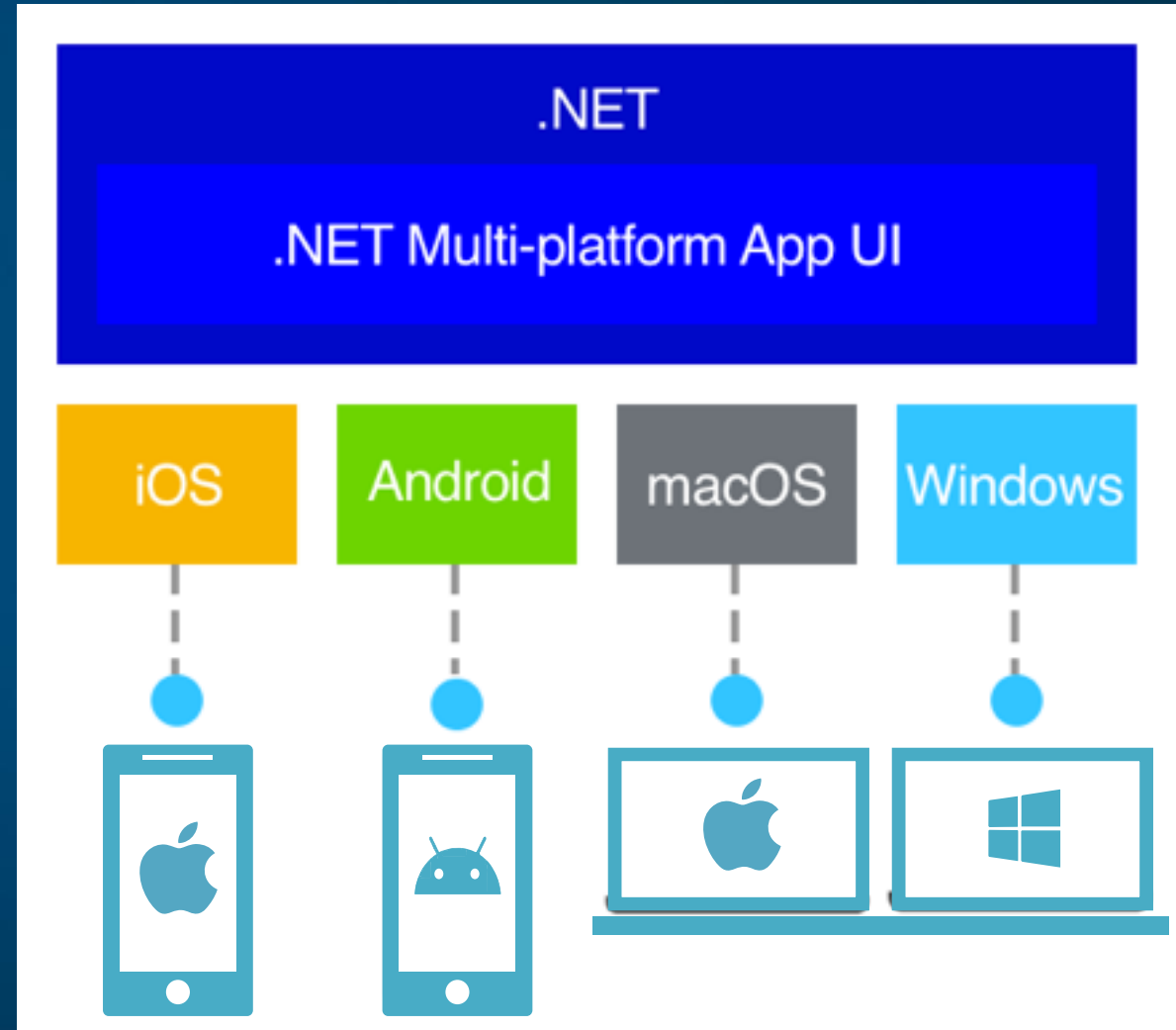


THANK YOU

Andrew van Dijk / Charl du Plessis

Demo : SP-Dev framework on Android

- Camera SP running on Samsung Galaxy Note 9
- SP-Dev framework used by .NET MAUI application
- Camera control provided by Camera.MAUI





ATM Software

SP-Dev Android Camera Demo

- SP-Dev framework is not limited to traditional operating systems
- It can be used on a wide range of devices
- Opportunities for new types of devices to support XFS





What's next?

- More guest speakers
- More Android
- More Framework updates
- Framework roadmap

Zoom

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

Next call: 4th June 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)