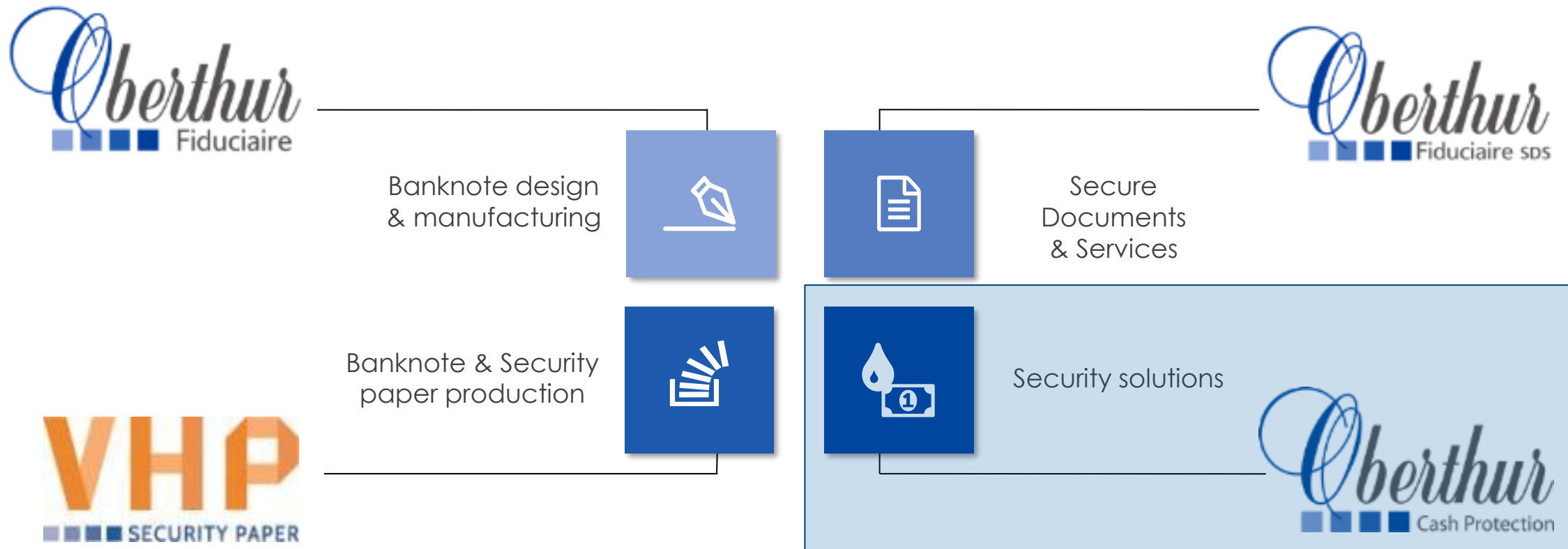# XFS4IoT SP-Dev Workgroup

6 Dec 2022

- IBNS – Guest speaker: Oberthur Cash Protection

- Latest SP-Dev Framework changes – Release v1.4.0

- What's next?

- Last few words of 2022

IBNS – Guest speaker: Oberthur Cash Protection

XFS4IoT SP Dev Workgroup

"Secure technologies preventing crime"

Banknote design & manufacturing

Secure Documents & Services

Banknote & Security paper production

Security solutions

"*Expertise, Trust, Innovation, Respect and Integrity are our key drivers.*
The in-depth knowledge of banknote design brings major benefits to all divisions in the Oberthur Group."

Head office: Paris

Factory, R&D and Export: Dijon

" Technology preventing crime

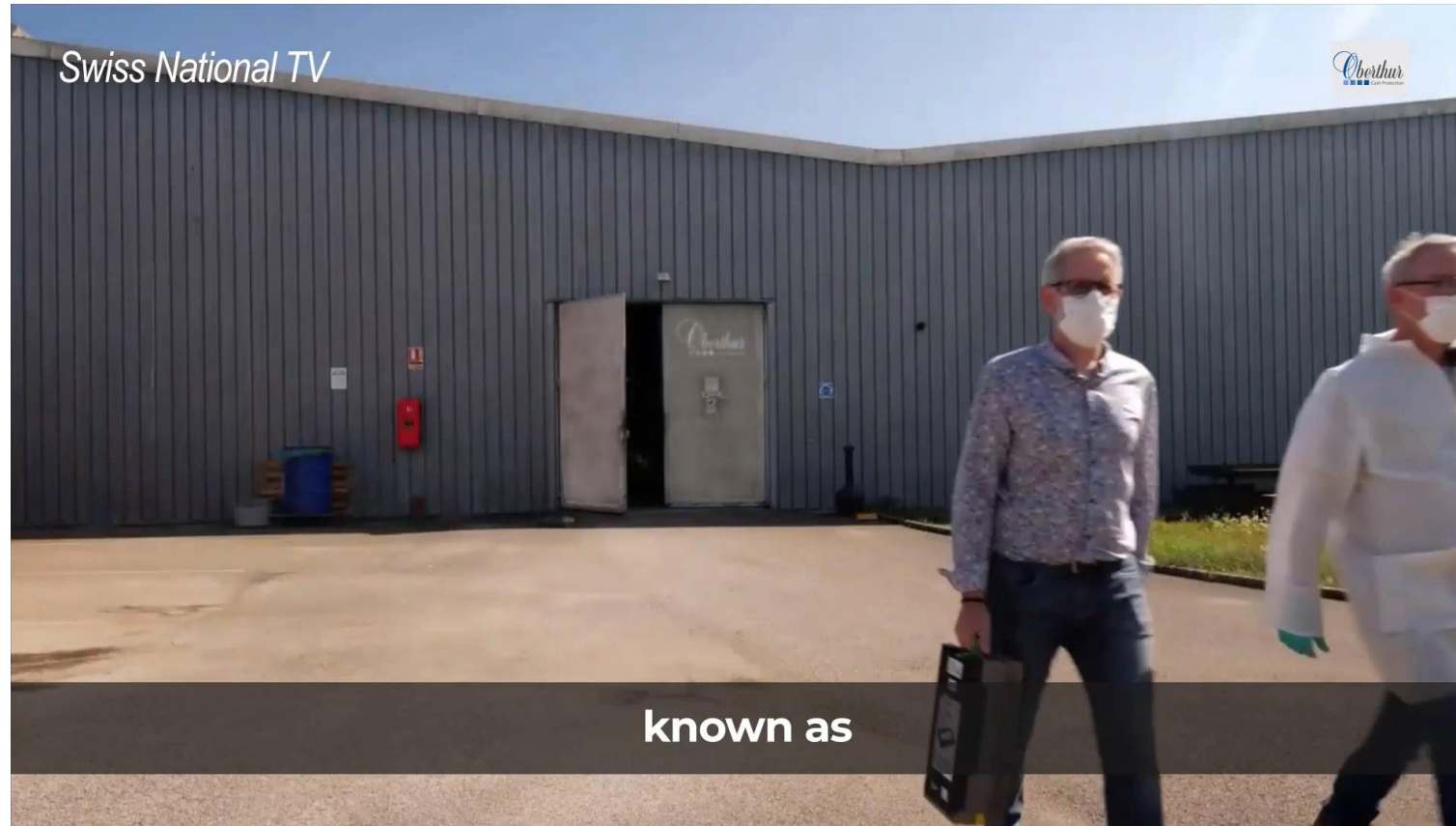**by removing the anticipated reward "**

"As there is NO anticipated reward, crime is deterred and prevented"

Intelligent Banknote Neutralization System

"As there is NO anticipated reward, crime is deterred and prevented"

Demonstration video:

Minimal impact on CiT operatives

Protection against

- Physical : Forced entry, Rip-out, Ram-raid, Explosive, etc.
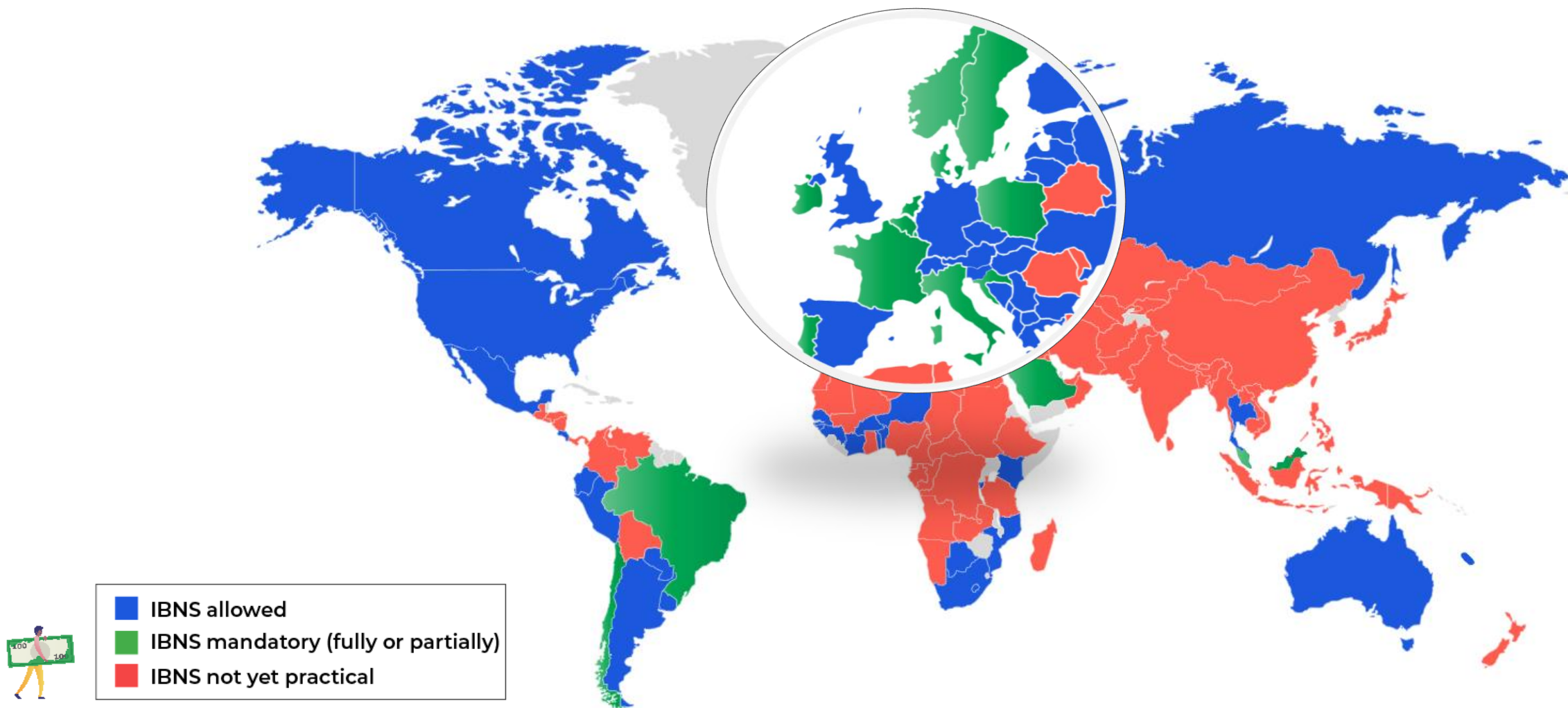- Cyber : Embedded security algorithms restrict the access

High Security Ink

- Specifically developed for IBNS use case
- Indelible. Polymer and paper banknotes.
- 20% note coverage, rejected by Cash Acceptors/Recyclers
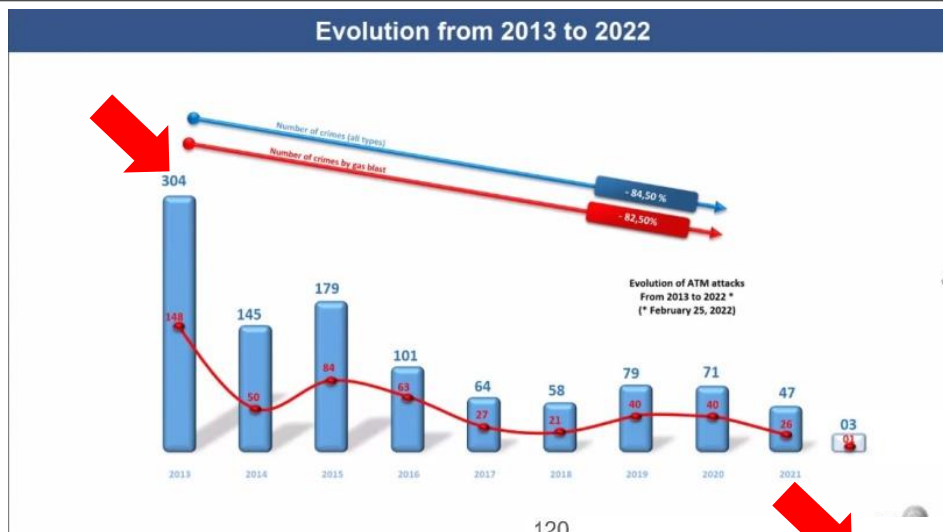- Traceable

Certification, Regulation

- Certified by official laboratories facilities
- Central Bank regulation / approval and protocol for IBNS
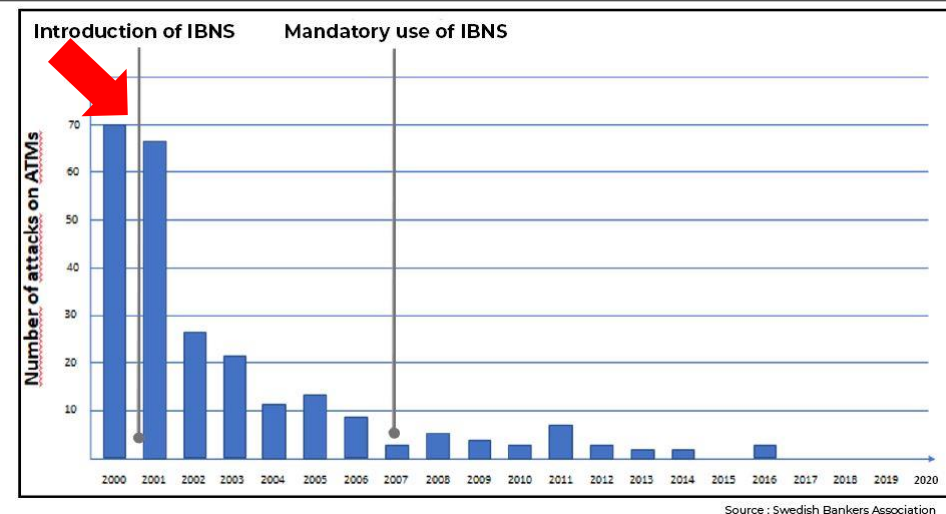- State-Approved and Homologated in some countries (France, Germany,...)

Oberthur
Cash Protection

Legend:
- IBNS allowed
- IBNS mandatory (fully or partially)
- IBNS not yet practical

France

Sweden

Malaysia

Intelligent Banknote Neutralization System

"Laboratories officially accredited by the EFSG (European Fire and Security Group)"
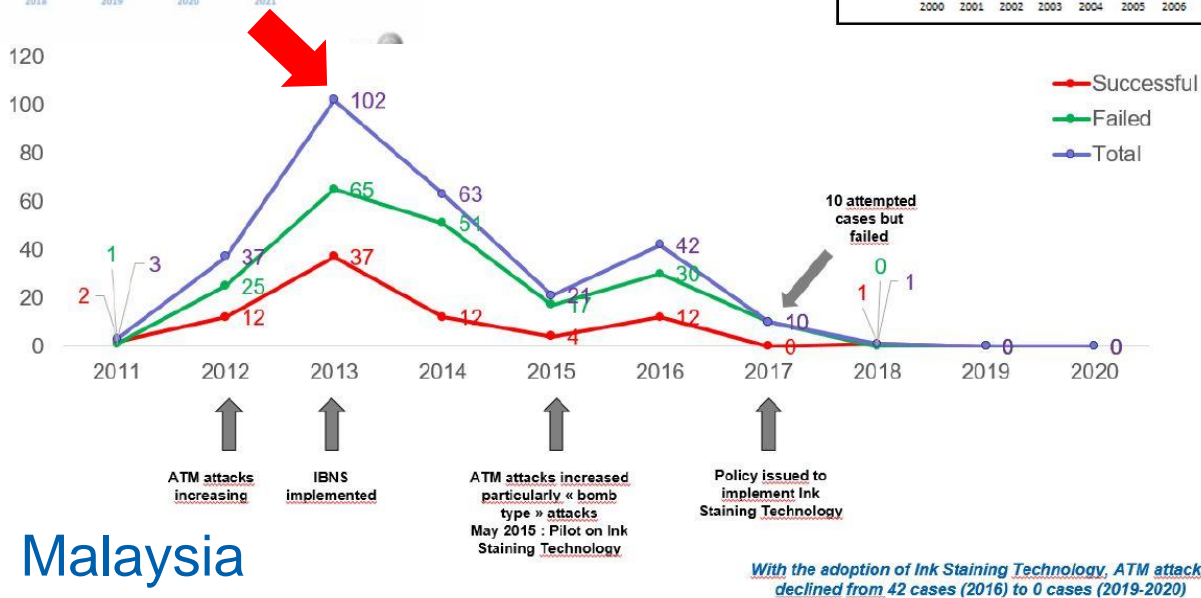
Germany

Netherlands

France

Video: "Solid explosive attack from inside the safe"

- **Reliability tests:**
  - Environmental (temperature, humidity, etc.)
  - ESD, EMC
  - Vibrations, shocks
  - Radio and Electric regulation conformity

- **100% of banknotes stained on at least 20% of its surface**

- **Triggered against these attacks:**
  - Mechanical attacks on the safe including illegal opening of the safe
  - Tilting (test performed on all cassette sides)
  - Gas attack
  - Solid explosive attack from inside the safe.
  - Solid explosive attack from outside the safe.

"Scientific evidence" has become an essential part of criminal investigation"

- The inks are enhanced with **coded marking products**.

- Each banknote cassette has a **unique code within the ink.**

- A **recovered stained note** or even a stained item of clothing **may be linked to the crime scene** by this code.

- This analysis of the stained items will become determining factors in any criminal investigation.

Thank you for your attention!

To find out more:

ocp@oberthurcp.com

Oberthur Cash Protection :

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Factory : 3 bis rue du Docteur Quignard | 21000 Dijon | France | +33 (0) 3 80 60 43 00

Q&A with Oberthur Cash Protection

Latest SP-Dev Framework changes – Release v1.4.0

Fixes

- TextTerminal.Beep command parameters now public
- TextTerminalServiceProvider added to XFS4IoTServer namespace

- Add null check when updating CashDispenser cash unit counters
- Fixed issue verifying payload cash unit id with internal cash units

- Fixed exception starting VendorApplication

- Fixed null reference copying internal Storage CashUnits properties

Changes

- Allow LANGUAGE tag in printer forms

- Ensure CommandQueue stops running when requested
- Ensure Cancel completion is always sent first

- CardReader.Reset will use storage id returned by the device when none is specified

- Set Present to always be false in Dispense handler

CommandHandlerAsync

- Added CommandHandlerAsync to multiple commands

- Allows the command to be completed while another command is in progress

- Useful for monitoring applications

- KeyManagement. GetKeyDetail

- PinPad. GetQueryPCIPTSDeviceId

- Keyboard.GetLayout

- Storage.GetStorage

What's next?

Work in progress

- Collaborating with the CEN XFS Committee to finalise the next specification release

- Keeping the SP-Dev framework up to date with the CEN XFS specification and working on the upcoming changes

- Continuing to fine-tune the SP-Dev framework through experience/feedback from the development of XFS4 SPs and workgroup members

Next call

Zoom

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

No call in January

Next call: 7th February 2022
**   1300 UK, 0800 US EST, 2200 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)

Last few words of 2022!