Kalignite Hypervisor
No more ATM hardware upgrades
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ATMs must migrate to Windows 10

• Windows 7 support ends in 2020
• Just like in 2014, banks have to migrate ATMs
• Just like in 2014, they will need to upgrade their hardware...
• It will be expensive and time consuming
It gets worse with Windows 10

• Major upgrades under Windows 10 will be more frequent

• These upgrades are called “SACs” and “LTSCs”
  — SAC: Semi-annual channel
  — LTSC: Long term service channel

• Motherboard component vendors do not plan to support new OSs

• Motherboard upgrades will become more frequent – not less
There is an alternative

• KAL have partnered with Red Hat to create an alternative

• The solution is to run both Linux and Windows 10 in the same ATM. The two OSs are combined using a hypervisor

• The advantage with Linux is that the PC-core drivers are supported by Red Hat Linux for the lifetime of the hardware

• The advantage with Windows 10 is that all current ATM software will continue to run. The two OSs work in tandem.
The software-only solution for Windows 10 migration

- The solution involves inserting a Linux Hypervisor between Windows 10 and the hardware.
- This solves the “support” problem
- KAL and Red Hat provide a subscription license for long term support for banks.
- There is an OEM version for hardware vendors to use.
Performance

- Speed impact is less than 2% compared with Windows 10 running natively

- RAM requirement is not increased compared with native use
Low Cost

• It costs much less to use the Kalignite Hypervisor than to upgrade motherboards for each Windows upgrade.

• Kalignite Hypervisor costs €100 per ATM per year subscription cost (license + maintenance)
  — Includes all Kalignite Hypervisor components
  — Includes RHEL and RHV optimized for ATMs from Red Hat
  — Includes 24x5 support. (24x7 option)
  — Works with KAL software suite or with 3rd party application software
• KAL published a detailed whitepaper in Jan 2019

• Download it from our website at https://www.kal.com

• There is a link on the home page