

HID Seos Applet Licensing Program for Third-Party Devices

The HID Seos Java Card Applet licensing program allows third-party manufacturers of devices — like fingerprint-enabled cards, rings, wristbands and other wearables or RFID capable devices in general — to embed a genuine HID Seos credential directly into their products. This enables end users to choose their credentials from a variety of different form factors aside from traditional smart cards or mobile phone credentials — they select the credential form that best fits their use case. Ordering the credentials is just as easy as ordering traditional cards. HID handles the provisioning of the Seos applet onto the third-party devices, ensuring end-to-end security throughout the process. Now it is in the hands of the end user to choose the form factor they prefer for secure access authentication.

THE POWER OF SEOS

Seos is a groundbreaking credential technology developed by ASSA ABLOY, used in a variety of their identification solutions. It's also available for licensing to allow other companies to integrate Seos into a wide range of smart devices and services.

Seos powers secure identity solutions and enables a new generation of smart devices to function as identity credentials. This technology is used in various identity solutions to issue, deliver and revoke digital keys and other identity data across a broad range of smart devices, including mobile phones, micro-processor cards and wearables.

By providing a common standard for mobile and smart card-based credentials (based on NFC and Bluetooth® Low Energy), Seos makes integration into systems like access control both flexible and easy. Seos-capable devices can be used to open doors to private homes, hotels, universities, hospitals and all types of office and commercial buildings.

These devices can also secure access to a growing ecosystem of Seos-capable applications including secure printing, cashless payments, time and attendance, computer log-ins and more.

Potential users include companies in the construction and building industry, real estate, mobile operators and handset manufacturers.

WELCOME THIRD PARTIES!

HID empowers third-party partners and enables them to join in expanding the Seos ecosystem. Any company that is interested in enabling new devices can be part of this ecosystem, which includes:

- Wearables like wristbands and rings
- Multi-factor cards such as fingerprint-enabled RFID employee badges
- Secure tokens like USB FIDO2 tokens with RFID interface
- Novel form factors such as chips on fingernails
- Or any other new approach to grow the end-customers' credential selection



KEY BENEFITS

- Works on traditional HID cards
- Powers HID Mobile Access on phones
- Works on non-HID third-party devices like wearables (rings, wristbands), fingerprint-enabled cards or RFID tokens
- Opens a whole new ecosystem of solutions to choose from
- Enables many form factors from other vendors — functioning like an open credential

SEOS LICENSING PROCESS

To get started with Seos on your devices, follow this simple process:

- Meet Device Standards — Ensure your device has a Secure Element with Java Card OS and an RFID interface
- Sign a License Contract — Enter into a licensing agreement with HID
- Collaborate on Production — Work with HID to implement the solution at an industrial scale
- Pass HID Certification — The final product must be tested and approved by HID to meet HID's performance and quality standards

SEOS INTEGRATION AND PROVISIONING

The key steps involved in this process include:

- **Device Specifications** — The partner provides details about the device they plan to use with the Seos applet
- **Customization and Adaption** — If needed, HID will adapt the Seos applet to match the partner's specific hardware and firmware
- **Testing and Qualification** — HID and the partner collaborate to test and qualify the final product
- **Production and Delivery** — The partner sends their devices to an HID distribution center to provision the Seos applet and all the necessary credential data onto the devices, following the partner's and end-customer's specifications

HID SEOS APPLET FOR THIRD-PARTY DEVICES – TECHNICAL SPECIFICATIONS

	Hardware and Firmware Requirements
Compatible Chips	NXP: P60EMV, P60SecID, P71, PN80T, PN81T, IDeWMA StarChip SCR496U RevC G&D platforms Hercules and Aries Samsung S3B512C Infineon SLC38, SLC39 Other hardware options are potentially compatible
Compatible Chip OS Vendor/Version	Preferred Java Card 3.0.5 Global Platform 2.2.1. + Amendment D Final compatibility must be checked on a case-by-case basis
Secure Elements Requirements	• Cryptographic details available upon request • Minimum free non-volatile memory: • 30 kB for 8 KB Seos filesystem • 30 kB for 16 KB Seos filesystem (available on request) • Minimum RAM size is 2kB
	POSSIBLE PHYSICAL DEVICES
Applicable Device Formats	ISO 7816 ID-1 format, plus wristbands, USB tokens, rings, wearables, etc.
	PROVISIONING PROCESS
Project Preconditions	Provide a valid business case Sign HID Seos Applet license contract Pass HID product compliance certification
Logistics	• Third-party devices must be shipped to an HID distribution center in TX – USA or Europe (details forthcoming) • Devices are then provisioned with the Seos Applet, personalized and then returned • Re-personalization of devices at partner or end-customer site is possible with established HID tools, e.g., CP1000D Alternatively, remote Seos Applet provisioning is under investigation

A non-exhaustive list of compatible partner devices and use cases can be found on the HID website:

<https://www.hidglobal.com/products/seos-3rd-party>



hidglobal.com

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