

Section **01**

Readers

Understanding HID Global Readers

Can I configure my reader product online?

Yes, HID Global® is now offering the HID Global Product Configurator. This online tool will guide customers and partners toward the most suitable product for their needs. There are two main features available with this tool:

- **Find by part number** - allows customers to enter an existing part number to see the specification of this reader.
- **Build a reader** - helps customers construct a complete part number, including keyset and configuration; everything needed to place an order. Customers will be able to download a PDF with all specifications of the reader they build to allow for a smooth ordering process.

HID Global Product Configurator: <https://www.hidglobal.com/configure>

What should I know about security keysets?

HID Signo™, iCLASS SE® readers and Seos®/iCLASS SE credentials offer two keyset security schemes, HID Elite and Standard.

The **HID Elite Security Program** supports a unique keyset on a per site/company basis.

The keyset governs a variety of keys, including:

- Media (credential) keys for iCLASS SE, SIO®-encoded iCLASS, MIFARE Classic (SIO) and MIFARE DESFire EV1 (SIO) credentials.
- SIO authenticity and privacy keys (media independent).
- Configuration programming keys (for programming reader configuration, also media independent).

When utilizing HID's standard key set for the above keys, all standard keyed credentials work with all standard keyed readers. Additionally, any Standard Security configuration card configures a Standard Security reader (only accomplished during the first five (5) seconds after reader powers-up). Conversely, when utilizing the HID Elite program, only site/company specific HID Elite credentials and configuration cards work with matching readers.

The **Standard Security Program** provides universal keysets that offer maximized compatibility by keying readers and cards with matching security for use in the general population. This allows for maximized compatibility because readers and cards are not keyed on a per site/company basis but rather all keyed the same. This offers the advantage to the integrator as a standard stock of readers and cards will interoperate for a variety of sites/companies, rather than needing different stocks of readers and cards for each individual site.

iCLASS SE Reader Standard Security Keysets

iCLASS SE readers provide two Standard Security Keysets that offer compatibility with the following credentials:

Standard Security Keyset	Compatibility with these Credentials
Version 1	<ul style="list-style-type: none"> • Seos (+ Prox) • iCLASS SE (+ Prox) • iCLASS SR (+ Prox) • iCLASS (+ Prox) • MIFARE Classic (+ Prox) • MIFARE DESFire EV1 (+ Prox)
Version 2	<ul style="list-style-type: none"> • Seos (+ Prox) • iCLASS SE (+ Prox) • MIFARE Classic (+ Prox) • MIFARE DESFire EV1 (+ Prox)



HID Signo Reader Credential Profiles

HID Signo Readers are available with the following credential profile options.

Communication Type	NFC/ BLE	High Frequency												Low Frequency				
		Seos (Mobile IDs via NFC/BLE)	Seos	iCLASS SE	iCLASS SR	iCLASS	MIFARE DESFire EV1 / EV2 / EV3 (SIO)	MIFARE Classic (SIO)	MIFARE DESFire EV1 / EV2 / EV3 (CSN)	MIFARE Classic (CSN)	MIFARE DESFire EV1 / EV2 / EV3 (Custom Data)	MIFARE Classic (Custom Data)	FeliCa IDm	CEPAS (CAN or UID)	125kHz HID Proximity	125kHz Indata Proximity	125kHz EM4102 Proximity	
Regular Options	<input type="checkbox"/> 00 - Standard Profile	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<input type="checkbox"/> 01 - Seos Profile	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	<input type="checkbox"/> 02 - Smart Profile	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<input type="checkbox"/> 03 - Custom Profile	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Priority Options	<input type="checkbox"/> T0 - Priority Standard Profile	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<input type="checkbox"/> T1 - Priority Seos Profile	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	<input type="checkbox"/> T2 - Priority Smart Profile	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<input type="checkbox"/> T3 - Priority Custom Profile	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

● Supported - Not supported

How can I order HID Elite configured readers?

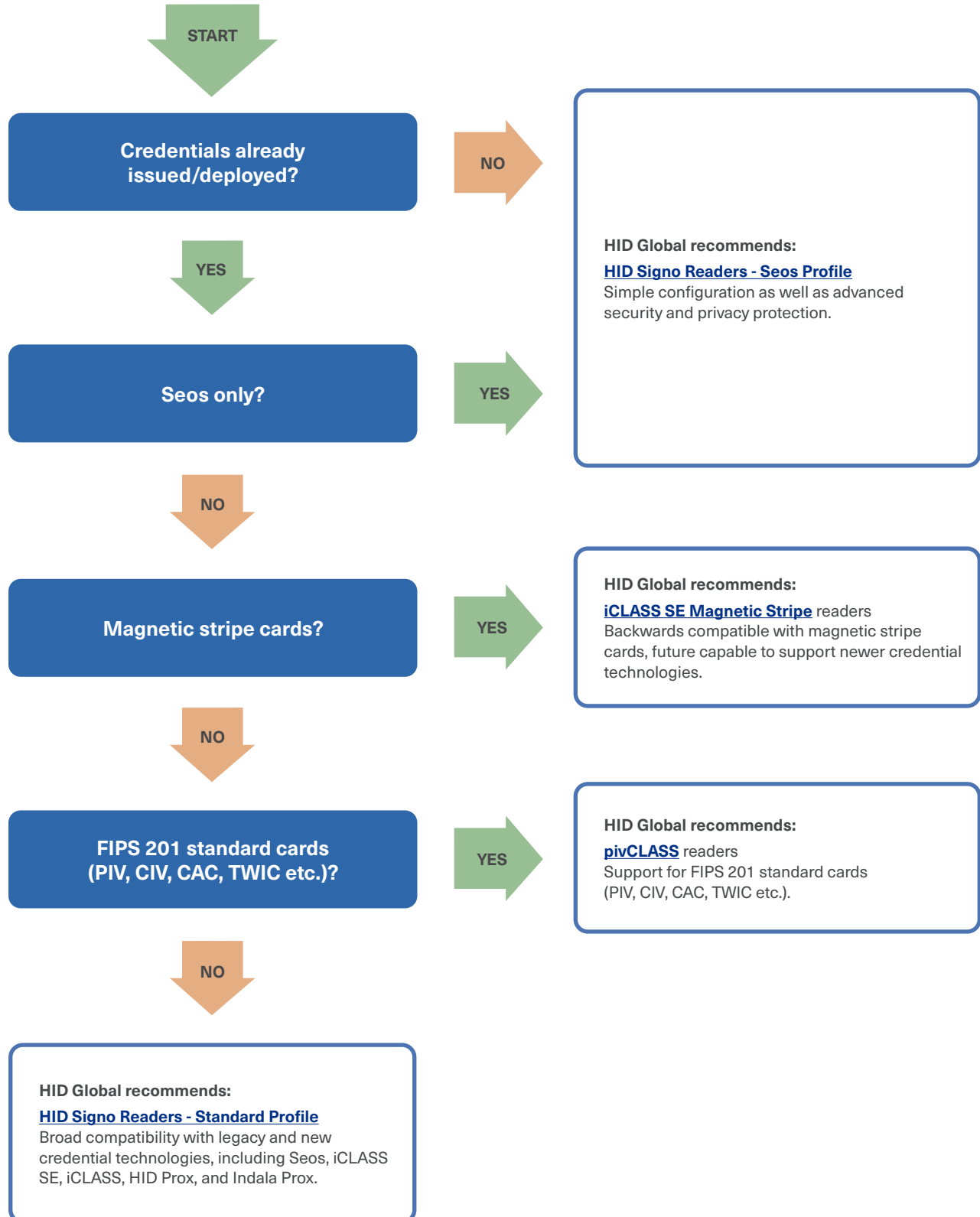
- Direct customers of HID must be authorized to purchase components with HID Elite keys. If you are not authorized, you must have the key owner authorize you through the Authorization form.
- See <https://www.hidglobal.com/solutions/elite-key>
- Ensure the HID Elite flag is set in the part number (of readers, credentials and programming cards).
- All Purchase Orders for HID Elite components must be ordered with the HID Elite reference number (starts with ICE or MOB).

How can I check the status of my order?

- To check order status, go to: <https://orderstatus.hidglobal.com/CCCOrderStatus>

Selecting the Right Reader

In order to make sure our customers benefit from the latest and most secure technology, based on their needs and current situation, HID Global offers a reader product guidance. Follow the suggested route below based on your current credential population, to see what reader solution is recommended by HID Global.



HID Signo Readers

Application: The versatility, performance, and connected capabilities of HID Signo Readers provide a highly adaptable, interoperable, and secure approach to electronic access control.

Technologies Supported: Wide variety of contactless low and high frequency credentials, plus HID Mobile Access® Mobile IDs via NFC and/or Bluetooth Smart.

Follow the steps below to determine a standard configuration HID Signo Reader part number. Alternatively, use the interactive online [HID Product Configurator](#) to customize a reader to your specific needs.



1. Select hardware option (select one model)



20 - Designed for applications requiring a narrow card reader.



20K - Designed for applications requiring a narrow reader with 2 x 6 capacitive keypad.



40 - Designed for applications requiring switch mounting.



40K - Designed for applications requiring wall switch mounting with 3 x 4 capacitive keypad.

Wiring Connection (select one option)

- N** - Pigtail
- T** - Terminal Strip

Body Color

- K** - Black

Trim/Mounting Plate Color

- S** - Silver

A black trim/mounting plate is available as an accessory item at an additional cost. Please see accessories list below.

2. Select credential profile (select one option)

Communication Type	NFC/ BLE	High Frequency											Low Frequency					
		Seos (Mobile IDs via NFC/BLE)	Seos	iCLASS SE	iCLASS SR	iCLASS	MIFARE DESFire EV1/ EV2/ EV3 (SIO)	MIFARE Classic (SIO)	MIFARE DESFire EV1/ EV2/ EV3 (CSN)	MIFARE Classic (CSN)	MIFARE DESFire EV1/ EV2/ EV3 (Custom Data)	MIFARE Classic (Custom Data)	FeliCa IDm	CEPAS (CAN or UID)	125kHz HID Proximity	125kHz Indala Proximity	125kHz EM4102 Proximity	
Regular Options	<input type="checkbox"/> 00 - Standard Profile	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<input type="checkbox"/> 01 - Seos Profile	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	<input type="checkbox"/> 02 - Smart Profile	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<input type="checkbox"/> 03 - Custom Profile	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Priority Options	<input type="checkbox"/> T0 - Priority Standard Profile	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<input type="checkbox"/> T1 - Priority Seos Profile	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	<input type="checkbox"/> T2 - Priority Smart Profile	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	<input type="checkbox"/> T3 - Priority Custom Profile	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

● Supported - Not supported

3. Select configuration option

			Flexible Default Reader Configuration*		
	Credential Profile	Default Reader Configuration	Key Input only (ICE or MOB)	Key (ICE or MOB) + Indala Format Input	Indala Format Input only
Wiegand	Standard	000000	001TCX	001UX8	001UX4
	Seos	000000	001UXB	–	–
	Smart	000000	001UXD	–	–
	Custom	000000	–	–	–
OSDP V1	Standard	–	0065H5	0065H7	0065H6
	Seos	–	0065H8	–	–
	Smart	–	0065H9	–	–
	Custom	–	–	–	–
OSDP V2	Standard	–	0063HH	0063HN	0063HQ
	Seos	–	0063HK	–	–
	Smart	–	0063HL	–	–
	Custom	–	–	–	–

*Flexible Default Reader Configuration options offer the same reader settings as the Default Reader Configuration, however they also allow for HID Elite keys (ICE), Mobile keys (MOB) and/or Indala formats to be provided at the time of order. This provides the option for HID Partners to reduce the number of HID Signo part numbers they need to support. A new configuration ID with this information preloaded will also be made available on the reader and documentation to simplify repeat ordering.

- Idle LED color is RED, flash GREEN on card read
- Tamper enabled
- Keypad 4-bit burst, Keypad backlight RED (keypad readers only)
- Visual Impaired Mode enabled
- Velocity Check disabled and Intelligent Power Management mode disabled
- Wiegand, OSDP V1, or OSDP V2 controller communication

For any other configuration, including non-standard credential configurations, please use the interactive online [HID Product Configurator](#). An example of a “non-standard” credential configuration would be where you would like to order a Standard Profile HID Signo Reader with Indala and CSN credential read capability disabled.

Note: No changes to reader configuration IDs are required when opting for the new counterpart priority credential profile. For example, if you are using “001TCX” with a Seos (01) profile reader, you can continue using the same configuration ID with a Priority Seos Profile (T1) reader.

4. Enter the numbers/letters from the selections above into the following table

Assemble your selections from Step 1 to 3.

	Reader Model	Wiring Connection	Body Color	Trim Color		Credential Profile		Configuration Option
Example	20	T	K	S	–	00	–	000000
Final Part Number			K	S	–		–	000000

5. Place an order

To place an order for HID Signo readers, authorized channel partners may submit a purchase order to HID Global Customer Service at <https://www.hidglobal.com/customer-service>

HID Signo Common and Popular orderable Part Numbers

HID Signo part numbers below provide full compatibility with the associated iCLASS SE / multiCLASS SE readers. Seos and smart profiles provide focused credential compatibility, please refer to the original reader configuration to determine the appropriate profile.

iCLASS SE / multiCLASS SE Part Number	Compatible HID Signo Reader Part Number (pigtail)	iCLASS SE / multiCLASS SE Part Number	Compatible HID Signo Reader Part Number (terminal strip)
900NTNNEK00000 (R10) 900PTNNEK00000 (RP10) 910NTNNEK00000 (R15) 910PTNNEK00000 (RP15)	Signo 20 20NKS-00-000000	900NTNTEK00000 (R10) 900PTNTEK00000 (RP10) 910NTNTEK00000 (R15) 910PTNTEK00000 (RP15)	Signo 20 20TKS-00-000000
920NTNNEK00000 (R40) 920PTNNEK00000 (RP40)	Signo 40 40NKS-00-000000	920NTNTEK00000 (R40) 920PTNTEK00000 (RP40)	Signo 40 40TKS-00-000000
921NTNNEK00000 (RK40) 921PTNNEK00000 (RPK40)	Signo 40 Keypad 40KNKS-00-000000	921NTNTEK00000 (RK40) 921PTNTEK00000 (RPK40)	Signo 40 Keypad 40KTKS-00-000000
921NTNNEK00000 (RK40) 921PTNNEK00000 (RPK40)	Signo 20 Keypad 20KNKS-00-000000	921NTNTEK00000 (RK40) 921PTNTEK00000 (RPK40)	Signo 20 Keypad 20KTKS-00-000000
Note: HID Signo 20K reader is mullion mount with 2 x 6 keypad		Note: HID Signo 20K reader is mullion mount with 2 x 6 keypad	

HID Signo Accessories and Credentials

Need accessories or compatible credentials? HID Signo readers support (depending on configuration) the following credentials:

- [Mobile IDs](#)
- [Seos](#)
- [iCLASS SE](#)
- [iCLASS](#)
- [HID Prox](#)
- [Indala Proximity](#)
- [MIFARE DESFire](#)
- [MIFARE Classic](#)

Wall Spacers		Part Number
	Signo 20/20K Reader 0.5 Inch Spacer, Black	20-K-05
	Signo 20/20K Reader, 0.5 Inch Spacer, Silver	20-S-05
	Signo 20/20K Reader, 1 Inch Spacer, Black	20-K-10
	Signo 20/20K Reader, 1 Inch Spacer, Silver	20-S-10
	Signo 40/40K Reader, 0.5 Inch Spacer, Black	40-K-05
	Signo 40/40K Reader, 0.5 Inch Spacer, Silver	40-S-05
	Signo 40/40K Reader, 1 Inch Spacer, Black	40-K-10
	Signo 40/40K Reader, 1 Inch Spacer, Silver	40-S-10

0.5 Inches = 1.27 cm

1 Inch = 2.54 cm

Mounting Plate/Trim Color		Part Number
	Signo 20 Reader Mounting Plate, Black	20-K-MP
	Signo 20 Reader Mounting Plate, Silver	20-S-MP
	Signo 20K Reader Mounting Plate, Black	20KT-K-MP
	Signo 20K Reader Mounting Plate, Silver	20KT-S-MP
	Signo 40 Reader Mounting Plate, Black	40-K-MP
	Signo 40 Reader Mounting Plate, Silver	40-S-MP
	Signo 40K Reader Mounting Plate, Black	40KT-K-MP
	Signo 40K Reader Mounting Plate, Silver	40KT-S-MP

HID Signo Reader Configuration

HID Signo Readers are designed to be configured using the HID Reader Manager application, a tool that provides powerful configuration and upgrade capabilities through a convenient smart phone application.

The App Store (Apple devices)



Google Play (Android devices)

