

# HIRSCH

## VIP Program Overview



Hirsch's uTrust TS Cards are modern, secure credentials for physical access control, based on NXP®'s MIFARE DESFire high-frequency (HF) 13.56 MHz technology and optional compatibility with 125 kHz proximity card systems.

When used with Hirsch's uTrust TS Readers, uTrust TS Cards provide an easy, cost-effective path to mitigating emerging security and compliance challenges, while maintaining compatibility with existing physical access control systems (PACS).

### Make It Your Own

All uTrust TS Cards and Readers are equipped with a standard set of AES-128 keys generated and managed by Hirsch, delivering out-of-the-box compatibility.

For customers that want maximum security and control, Hirsch's TS VIP Program provides an infrastructure to program TS cards and readers with unique keys owned by the customer.

Hirsch's uTrust TS Key Tool provides all necessary functions to generate and encrypt AES-128 keys to support the TS VIP Program. The tool is designed to enable a user to input existing proprietary keys or auto-generate new keys.

Ownership of the keys gives the customer ultimate control over their security and credential suppliers.

- Based on **industry-standard MIFARE DESFire EV1/EV2/EV3 technology** (evaluated to Common Criteria EAL4+ or higher), provides a high level of security assurance
- Key files are secured using **PGP encryption** so they can be shared via email or other file transfer means without sacrificing security
- **Flexible and scalable** solution to meet any migration timeline and budget.
- Puts the **customer in control** of their access control system security and supply chain

## Getting Started

Getting started with Hirsch's TS VIP Program is summarized in a few easy steps:

### 1. Choose your base card configuration.

- **TS Standard (HF only)** - select this option if support for prox isn't required.
- **TS Migration (HF + prox)** - select this option to accommodate a mix of prox and HF readers. (Do not use with multi-protocol readers.)

### 2. Define the card format. Hirsch offers three common industry standards.

- **26D format** is the most commonly used industry standard. While typically an "unmanaged" format, Hirsch does not allow duplicate card numbers with TS cards. Card numbers are "next in line" per facility code.
- **35D format** is compatible with HID Corporate 1000 format (H5XXXX). This is a managed format that includes a facility code. Card numbers are "next in line" and tracked to maintain the uniqueness across future orders.
- **37D format** is compatible with HID 37-bit no facility code format (H10302), which does not include a facility code. With this option, Hirsch manages the uniqueness of the numbering and it is not possible to define a starting number.

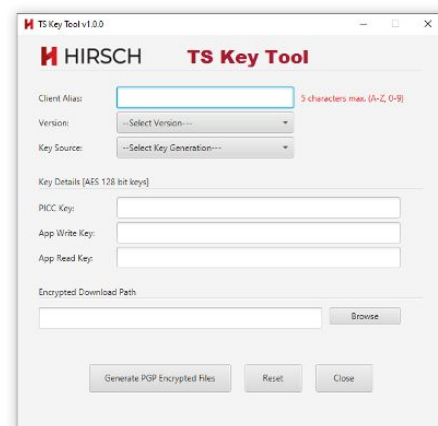


### 3. Select the appropriate TS reader(s)

- Select the appropriate TS reader(s) based on features and whether or not it is necessary to support legacy 125 kHz prox credentials. Refer to the **uTrust TS Reader Datasheet** for details.

### 4. Generate and share keys!

Use the **uTrust TS Key Tool** to import existing proprietary keys or auto-generate new keys. All key files are identified with a Client Alias and securely stored in Hirsch's HSM.



**Contact your Regional Sales Manager to get started!**

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Item number	Description
<b>Standard (HF Only)</b>	
5020-SDSOM-VIP-XXXXX-001 5020-SDSSM-VIP-XXXXX-001 5020-SDSRM-VIP-XXXXX-001	TS Standard 256B ISO Composite Card - 26 bit Format TS Standard 256B ISO Composite Card - 35 bit Format TS Standard 256B ISO Composite Card - 37 bit Format
5023-SDSOM-VIP-XXXXX-001 5023-SDSSM-VIP-XXXXX-001 5023-SDSRM-VIP-XXXXX-001	TS Standard DESFire EV1 8K ISO Composite Card - 26 bit Format TS Standard DESFire EV1 8K ISO Composite Card - 35 bit Format TS Standard DESFire EV1 8K ISO Composite Card - 37 bit Format
<b>Migration (HF + Prox)</b>	
5020-MDSOM-VIP-XXXXX-001 5020-MDSSM-VIP-XXXXX-001 5020-MDSRM-VIP-XXXXX-001	TS Migration 256B + Prox ISO Composite Card - 26 bit Format TS Standard 256B + Prox ISO Composite Card - 35 bit Format TS Standard 256B + Prox ISO Composite Card - 37 bit Format
5023-MDSOM-VIP-XXXXX-001 5023-MDSSM-VIP-XXXXX-001 5023-MDSRM-VIP-XXXXX-001	TS Standard DESFire EV1 8K + Prox ISO Composite Card - 26 bit Format TS Standard DESFire EV1 8K + Prox ISO Composite Card - 35 bit Format TS Standard DESFire EV1 8K + Prox ISO Composite Card - 37 bit Format
<b>Enrollment</b>	
SMES-TS-USB-ENROLL-XXXXX-VIP-FORMATXX	uTrust TS Universal Credential Enroller Format26/35/37 SAM for VIP (customer reference)
<b>Setup</b>	
TS-VIP-SETUP	TS VIP Key setup for readers and credentials

Hirsch Product Management assigns unique item numbers for all VIP cards and readers. Refer to Hirsch Pricebook for TS card and reader pricing. XXXXX = Customer Reference.

Hirsch Format Code	Format Code	Description	Bits	Possible Facility Codes	Possible Serial Numbers
26D	H10301	General Distribution	26	0 - 255	0 - 65,535
35D	H5XXXX	HID Corporate 1000	35	0 - 4,095	0 - 1,048,575
37D	H10302	HID 37 bit, No Facility Code	37	N/A	0 - 4,294,967,295

