# Use of the ISONAS Reader-controllers and Proximity Credentials from HID.

ISONAS reader-controllers can be optionally enabled to read HID's Proximity credentials. HID's Proximity credentials have many formats available. Each format specifies the amount and contents of the information recorded on the credential.

Basic Guidelines for ISONAS's HID-Enabled reader-controllers:
❖ All formats of HID Proximity Cards (125KZ) can be read.
❖ Indala cards and the ProxPass cards are not supported.

The data on the card is converted into an ISONAS equivalent credential number.
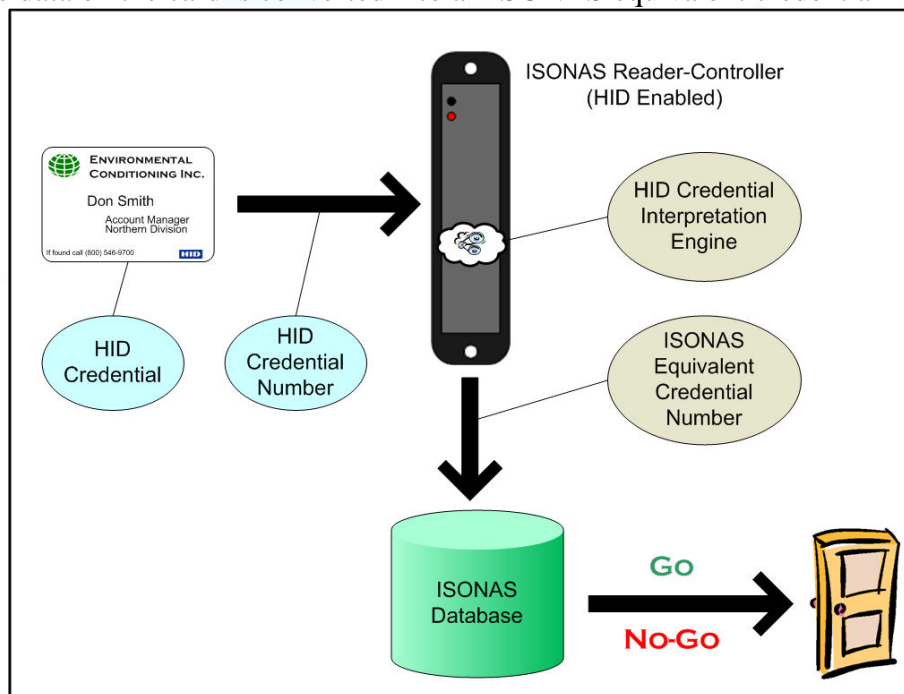


**Figure 1: HID Credential Conversion**

There are two conversion methods available.

## Method 1)

The data is read from the card, and the reader-controller credential interpretation engine's processing creates a unique ISONAS credential ID

## Method 2)

The ISONAS reader reads the data from the card, and then uses selected portions of that data to create the ISONAS credential ID.

## Pros and Cons of the different conversion methods

## Method 1

### Pros
Easy to implement

The user does not need special knowledge of the data on their HID credentials.

User enrollment can always be done simply by scanning each card at a reader.

Some HID credential formats may be converted to the ISONAS credential format through manually entry of the HID credential number printed on the card.

### Cons
The number that the ISONAS reader produces will probably not match what is physically printed on the card.

## Method 2

### Pros
The user has more control and flexibility over the use of the HID card data.

Some HID formats allow the ISONAS reader to produces a credential ID that matches what is printed on the HID card (when the system is configured correctly).

### Cons
The user must understand the exact card format they ordered from HID and then configure that in the ISONAS system.

## ISONAS supplied HID Credentials.

ISONAS can supply proximity cards that have been formatted by HID, these cards have some special advantages when used with the ISONAS reader-controllers

1) ISONAS assures that the credential's ID is always a unique number.
2) The number that the ISONAS reader produces will always match what is printed on the HID card and configuring the system is easy.
3) Credentials are available that support multiple technologies
    a. Proximity & Magnetic Stripe
    b. Proximity & Smart Cards (iClass, MiFare, DESFire)