

Reader Technology Upgrade: Be Smart!

Don't confuse Proximity Cards (125 KHz) with Smart Cards as they can both be used for door access control. However, there are some significant "security" differences between the two card technologies. You'll want to be sure to upgrade to the latest open standards high security technology. Smart cards (Mifare / Desfire) are recommended as a replacement to older proximity cards, we've outlined some of the steps below.

Older proximity cards can be easily duplicated using cheaply acquired equipment found online, making fraudulent entry a high-risk.

New smart cards, utilize Mifare / Desfire and LEAF technologies to provide high-security, eliminating the risk associated with older cards.



Upgrade to the latest open high security card technology

Easy upgrade to WaveLynx (Ethos®) Multi-Technology Readers

Card Types Supported:

- 125 KHz Proximity Technology (older)
- 13.56 MHz Mifare / Desfire EV2, EV3
- Mobile Credential (Free no annual fees)
- Mobile Credential Wallet Version (with annual fees)



Multi-Technology WaveLynx (Ethos) Readers designed for Smart Cards (compatible with older cards during the upgrade process)

Upgrading Steps:

- #1 Slowly begin upgrading to WaveLynx readers (compatible with existing 125 KHz Proximity cards)
- #2 Once all readers have been upgraded, begin to release the Mifare/Desfire (LEAF) cards
- #3 Once all cards have been replaced with Smart Cards, turn "OFF" 125 KHz Proximity Technology at the reader (no longer reads the older proximity technology and makes the older cards useless)

Note 1: LEAF card technology is available with "custom" user security keys.

Note 2: Mobile credential option(s) must be ordered with the reader.

Reference Links for more details:

https://www.nxp.com/products/rfid-nfc/mifare-hf/mifare-desfire:MC_53450

https://www.pcscsecurity.com/wp-content/uploads/2018/05/Prox_and_Mifare_Explained.pdf