

Security Technology Upgrade: APEX Readers

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 DUOX) 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 DUOX, 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 **APEX Multi-Technology Readers**

Card Types Supported:

- Full functionality (Equivalent to Ethos -7WS Reader)
- Prox / 13.56 MHz (Leaf + Wallet) / BLE credentials
- Bluetooth admin support (Configure App)
- OSDP & Wiegand capability
- 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 (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:

LEAF : https://cdn.prod.website-files.com/67180e946a7724bb4b5ef95c/699a4cc2961b7f9754ff13cf_4e7267e3564ba5c2da320dab57fa55a1_leaf_verified_whitepaper.pdf

APEX Readers Data Sheet: https://www.pcscsecurity.com/wp-content/uploads/2026/03/apex_readers_overview.pdf