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DSX Access Systems, Inc.
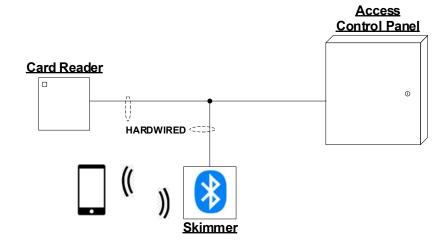
OSDP replaces Wiegand

Reader Protocols

OSDP is an encrypted RS-485 two wire communications protocol that is the new industry standard for reader to panel communications. This new protocol replaces the older one known as Wiegand. This older protocol is a binary encoded decimal and is in fact old and limited in comparison. What it is not, is a huge threat to your security as some would like you to believe. The "Compromise" to Wiegand is this, a piece of electronic equipment with Bluetooth communications and mobile phone app can be placed on the data line between the reader and panel and a successful card read can be recorded and when desired played back from a mobile command fooling the system into accepting a recorded card read from the device instead of the actual card reader.

Risk

So, in short someone can break into your system and install some fairly sophisticated technology so they can come back and break into your building later. Some organizations have been sold on this issue and are ready to replace every reader they ever bought.

Access Control Panel

Card Reader

HARDWIRED

Skimmer

Solution - Long Term

DSX has new controllers coming that will talk OSDP and/or Wiegand and an OSDP Interface module that will convert OSDP to Wiegand to retrofit older systems without having to replace the controllers.

Solution - Short Term

Tamper proofing the readers and securely installing them is a simple way to prevent this. A Reader Tamper alarm in DSX can send an alarm via text or email and can disable that reader port until serviced. Other ways to combat this is to use AntiPassback to prevent the card number from being used again to enter while the card holder is in the building. Restricted Access could prevent it from working after hours. Check-In Verify can prevent cards from working until the card holder has been checked in and their card enabled for the day or until they leave.