



# OSDP REPLACES WIEGAND

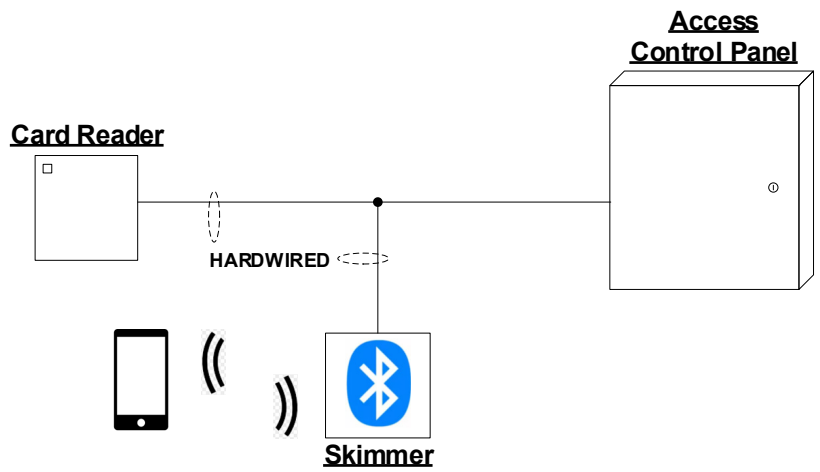
## OVERVIEW

**OSDP** is an encrypted RS-485 two wire communications protocol that is the new industry standard for Reader to Panel communications. This new Reader protocol replaces the older Wiegand protocol.

**Wiegand** is a binary encoded decimal and is, in fact, old and limited in comparison to OSDP.

## RISK WITH WIEGAND

The Wiegand protocol may become compromised when cybercriminals place a Bluetooth enabled device paired with an unauthorized mobile app on the data line between the Card Reader and the Panel. A successful system Card Read can be recorded and then played back at a later time from a mobile command on the unauthorized app. The app fools the system into accepting a recorded Card Read instead of an actual Card Read.



As a result, the unauthorized sophisticated technology can use the recorded Card Read for unauthorized entry.

Short of replacing all readers, there are a few steps that can be taken to prevent this type of breach.

## SHORT TERM SOLUTIONS

- Securely install and tamper proof the Readers.
- A Reader Tamper alarm in DSX can send an alarm via text or email and can disable that Reader port until serviced.
- Use AntiPassback in combination with In and Out Readers to prevent the multiple entrances from accepting the same Card before the Card is read OUT
- Restricted Access can prevent a Card Read from working after hours.
- Check-In Verify requires a Card to be used at a specific Reader before the Card will work at other Readers.

## LONG TERM SOLUTION

DSX is currently working on a new class of Controllers that communicate with OSDP and/or Wiegand.

DSX-CRT (Card Read Translator) is also under development to accept OSDP and convert to Wiegand to retrofit older systems without the need to replace Controllers.