

Reader Lifecycle and OSDP Scenarios – Eidola Application Note 5

Introduction

This application note covers basics of reader management and OSDP testing. Most systems are particular about the OSDP reader configuration and we have found that, for example, there are differences in communication settings depending on the use case. While OSDP functionality includes remote configuration in many cases the use of configuration cards is still commonplace. This document takes a configuration card focus. A follow-up application note will discuss OSDP file transfer and remote configuration. This is a simple set of sets to manage readers over their lifecycle.

OSDP Reader Test

1. Connect new-in-box reader to OSDP CP (panel) - **ASSUMES NEW-IN-BOX READER CAN USE OSDP**
2. Present sample card (needs to be specific to reader deployment and assume test card availability)
3. Confirm card number delivered to panel is correct

Reader Disposal

1. Present "key zeroize" card to existing reader. It is important to make sure this is a card that wipes keys and not simply downgrades and leaves the existing keys on the reader. In some cases this is a two step process where a downgrade card needs to be presented first, depending on the manufacturer.
2. Present sample card to reader
3. Confirm card is NOT read

OSDP Field Upgrade

1. Power up existing reader configured for Wiegand (or new-in-box reader shipped configured for Wiegand)
2. Present "config change" card to change to OSDP
3. Proceed with "OSPD Reader Test" as described above.

OSDP Functionality Test

1. Connect OSDP reader to OSDP test environment (e.g. EiPi™ or EiBrick™ with Eidola OSDP diagnostic).
 - a. Confirm this is an RS-485 cable
 - i. Tx+, Tx-, Reader +12 vdc, Reader ground
 - ii. No other connections to reader.
2. Confirm operational by reading a sample card
3. Test LED output as configured (red LED, green LED, other?)
4. Test beeper output as configured for OSDP
5. Test tamper input as configured for OSDP