OSDP 2.2

ICT tSec RFID readers meet international standards but what are they and what benefit do they bring to you?

The standard.

Open Supervised Device Protocol (OSDP) 2.2.

The meaning and benefit.

Wiegand technology is no longer able to meet today's security demands due to its unencrypted format and advancements in hacking, so security industry experts developed OSDP – an international standard that offers more secure access control communications.

An encrypted open-source protocol, OSDP enables interoperability between access control systems while ensuring the communication pathway is secure. 2.2 of the standard brings further improvements to this interoperability.

OSDP uses RS-485 protocols coupled with AES-128 encryption for secure channel transmissions. It improves credential security with bi-directional (or full-duplex) communication, meaning the controller can talk to the reader and let it know whether that credential is allowed in that area or even if it's a duplicate.

Because of the improved interoperability, readers and access control panels can now talk to third-party products. OSDP is also more cost effective to install. Only two wires are required to transfer data, enabling multi-drop installations so you only need one reader port. Twisted pair cables mean you can run cable up 900 meters (approximately 3000 feet) – that's 6x the amount compared to traditional Wiegand.

Pair OSDP with a MIFARE DESFire smart card and ICT Protege controller, and you have a completely encrypted communication path from card to server.

Target applications.

Any property or vertical can benefit from a robust, unified access control and intrusion detection solution, including:

> Residential buildings and dorms

> Mixed-use facilities

> Commercial buildings

> Government facilities

> Utility facilities

> Office buildings

> Warehouses and factories

> Airports and transport hubs

> Correctional facilities

> Banks and financial institutions

To see the list of requirements for setting up the tSecs for this standard, please see:

> tSec Reader Range: tSec Multi-Technology Card Reader with Bluetooth® Wireless Technology Installation Manual

> ICT Card Reader Configuration Guide