

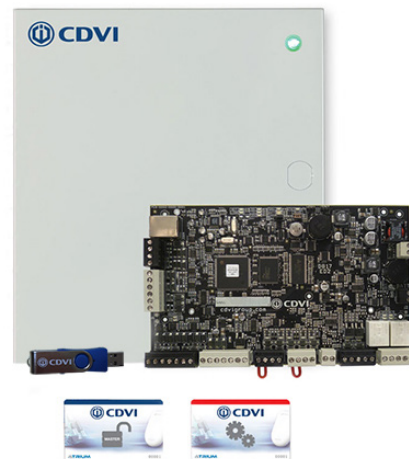
Panel Mount Reader for use with Atrium

Challenge

In many applications audio and video door entry systems are installed which also require proximity access for the users to enter the building or premises, normally contained in a flush or service housing these are often specified with a 40*40 cut out sometimes referred to as a PAC or Paxton cut-out for the RFID reader.

In many of these installations the architect or specifier will request that the look of the entrance should be maintained, this can limit the installer's choice of the access control system. In addition sometimes an existing standalone system needs to be transformed into a networked system or little thought initially went into the control of the users and credentials. In these cases, it is possible to use 3rd party or OEM modules for the RFID reader in the door station and connect to a more sophisticated system like Atrium that provides many access control benefits' such as event logs, reports, triggers and actions, email alerts and integration with IP Cameras and Alarm systems.

So how is it possible to maintain the look of the door entry system and increase the functionality of the building using Atrium access control?



Solution

Using any of the approved 3rd party panel mount readers it is possible to keep the look of the outside door station and use all the great features that Atrium can provide such as remote management via the web browser interface, triggers and actions, lockdown and email event capabilities. CDVI have tested the main door entry readers to ensure that you have the maximum opportunity to install new systems or upgrade existing systems to the powerful Atrium access control solution.

What do I need?

1. Atrium A22 Access control system – 2 reader controller
2. Choice of tested 3rd party panel mount readers (PAC, Paxton, Videx and BPT)
3. The specific Application Note for your 3rd party reader

BPT-IMPRO X WDP

This application note explains how the BPT – ImproX WDP Panel Mount reader can be interfaced to the Atrium access control system for use with door entry systems, this unit is by default 26-bit Wiegand it can be configured between 26 or 44-bit formats. This document covers connection of the reader in 26-bit Wiegand mode.








How is it done?

Simply install the Panel mount reader as per the manufacturer instructions.

Wire the reader back to the Atrium access control system using suitable reader cable

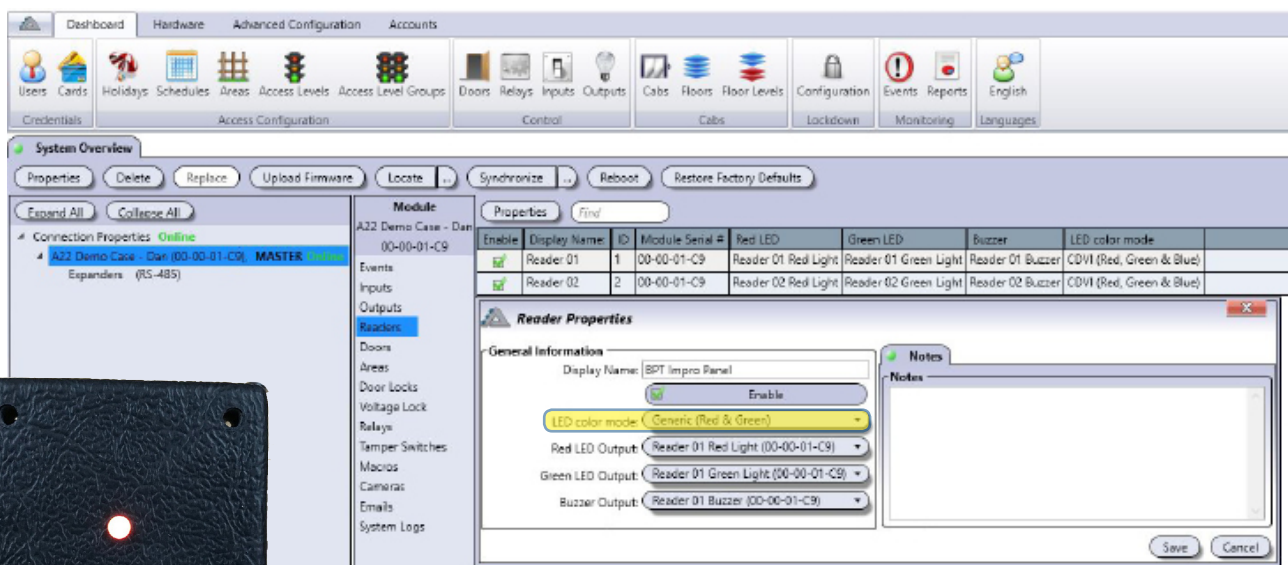
7 wires are required for the full functional controller of the LED and Buzzer; 12Vdc, Ground, D0, D1, Green LED, Red LED and Buzzer.

If you do not have 7 wires available then **4 may be used** but you will lose the control of the LED status for access feedback and buzzer control.

	ATRIUM	BPT-IMPRO WDP900	
	+12V	T12V	+12V
	0V	TGDN	0V
	DATA 0	T0	DATA 0
	DATA 1	T1	DATA 1
	LED Red	TR	LED Red
	LED Green	TG	LED Green
	Buzzer	BUZ	Buzzer

It is necessary to set the working mode of the BPT WDP900 Reader using the programming pin on pin 4 and 5, after powering up the unit it should beep once to set 26 bit then remove the pin. After connection to the Atrium system, the cards and tokens should be automatically registered correctly in 10-digit Hexadecimal and Decimal formats dependant on Atrium settings.

In the Atrium software set the Reader LED output to generic to gain control of the LED for access control feedback.



That's it, you have now successfully installed a BPT – ImproX WDP panel mount reader to work with CDVI's Atrium access control system.