PRODUCT STATUS UPDATE

VANDERBILT

PRODUCT LINE: ACCESS

PRODUCT: ACT Enterprise

MODEL/Version: 2.11   **CATEGORY:**   UPDATE

CONTACT: Local Technical Support   **DATE:**   2020-02-03

This document refers to **ACT Enterprise** 2.11 or later.

The following is a list of new features and improvements included with **ACT Enterprise** 2.11. Some features require the associated controller firmware, which is shipped with the **ACT Enterprise** installation package (**Note:** the ACTpro-100 door station cannot be firmware updated).

Table of Contents

Deadbolt Monitoring

ACT Enterprise 2.11 and later supports the operation and monitoring of door locks with deadbolts. The system can be configured so that deadbolts are withdrawn on an access/exit granted event, and are optionally held or withdrawn for a specified time zone. Deadbolt position can be monitored, and OP2/OP3 used to trigger, for example, an alarm if the door is held ajar (left open), or the deadbolt is unexpectedly unsecured.

Prerequisite:
ACT Enterprise or **ACT Enterprise Lite** (free version) **2.11** or later.
ACTpro-1500 firmware 1.09.06 or later (shipped with ACT Enterprise installation package).
ACTpro-100 firmware 1.27 or later (ACTpro-100 cannot be firmware upgraded).

Use Case 1 – Typical use scenario:
Doors with motorized locks are usually used on perimeter door-with-door strikes. When the cardholder presents their card, the deadbolt should withdraw. This takes about 300-500 milliseconds. During this time, the door strike is not activated. This stops the cardholder from trying to open the door while the deadbolt is withdrawing. After the deadbolt is withdrawn, the door strike is activated, and the cardholder may enter.

Use Case 2 – First access:
The 'Unlock Deadbolt on First Access' time zone is set from 9 am to 5 pm. In the morning, when the first cardholder arrives at 9.05 am, the door is locked, and the deadbolt is secured. When the user presents their card, the deadbolt output is activated to retract the deadbolt. When the deadbolt is fully withdrawn, the door strike is energized, and the user goes through the door. After the Main Relay timer times out (usually 5 seconds later), the strike is de-energized and the door is locked again. The deadbolt remains retracted for the rest of the day until 5 pm when the controller de-energizes its AUX relay. This throws the deadbolt into the secure position.

Use Case 3 – Alarm condition:
As in Use Case 2, except at 4.55 pm, someone places a fire extinguisher at the door to keep it propped open. At 5 pm, an alarm is generated "**Deadbolt alarm – not secured**". An output may be wired to a buzzer to sound an alarm on this condition. The alarm is cleared by closing the door.

Use Case 4 – No Deadbolt Monitor:
Where deadbolt monitoring is not supported, a delay can be configured before firing the main relay (operating the strike) to give the deadbolt time to retract. Hence, if it takes 1 second for the deadbolt to successfully retract, a delay may be configured that after an access granted event, delay activation of the main relay by 2 seconds. This delay ensures that if someone tries to access the door before the deadbolt is successfully retracted, the integrity of the deadbolt is maintained as the forces are applied to the strike rather than the deadbolt.

Note: The following describes a "Typical Scenario" of how to set up and configure the ACTpro systems for Deadbolt (motor locks) and is based on the EL573 Lock from Assa Abloy. Other lock types are supported similarly. Refer to the manufacturer documentation for hardware and wiring specifications to establish the appropriate connections.
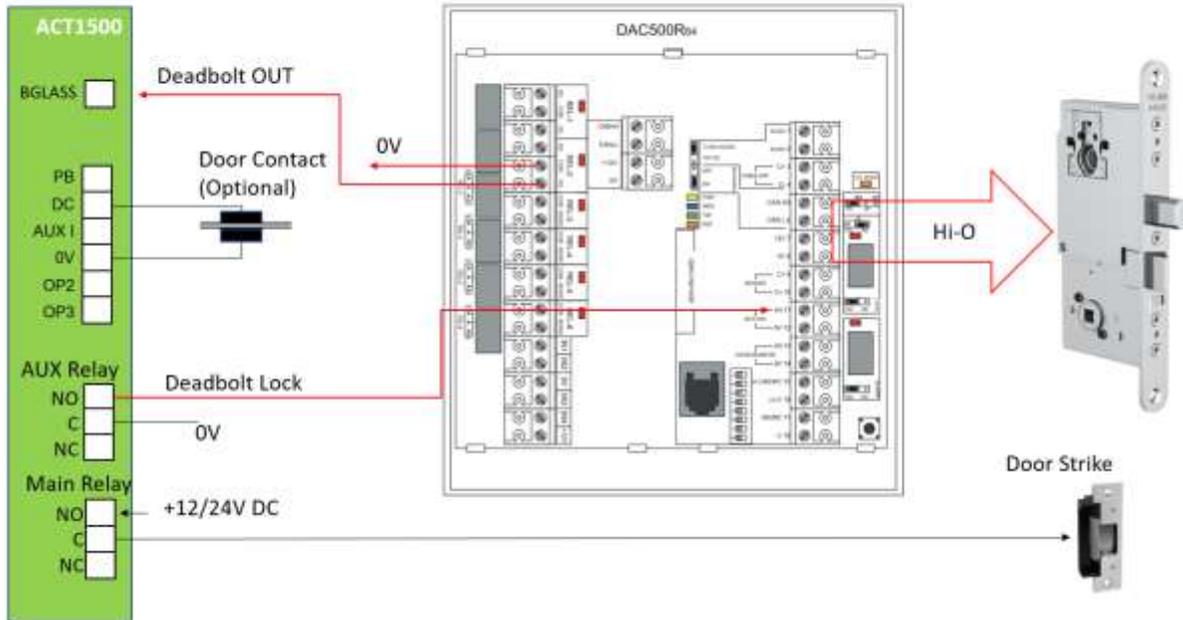

Fig: ASSA ABLOY Hi-O deadbolt lock wiring to ACTpro-1500.

Configuration:

- Connect Hi-O lock to terminals 5,6, 7, and 8
- All dip switches OFF
- BUTTON input (terminals 11 and 12), open at the initiation. The BUTTON input must be programmed as Level Triggered
- Power up DAC and lock
- Wait for PWR to turn solid yellow, and WDG to flash blue, twice a second
- Set DIP 8 on.

DAC 564	CONNECTION
REL -2 NC	ACTpro-1500 BREAK GLASS
REL-2 COM	0V
BUTTON IN	ACTpro-1500 AUX RELAY
AC/DC 1	+12V
AC/DC 2	0V
CAN H	Hi-O Lock
CAN L	Hi-O Lock
12V	Hi-O Lock
0V	Hi-O Lock

Configuration in ACT Enterprise

In **ACT Install: Advanced Setup > Doors** Select the door with the deadbolt lock.

On the **AUX Relay tab**, enable **Deadbolt** checkbox. This will activate the AUX relay to provide power to the deadbolt/motorized lock.

On the Operations tab, enable **Deadbolt monitoring activated** checkbox. This configures the ACTpro controller to monitor the Break glass input PIN for the BOLT OUT signal.

Note: some older locks may not support deadbolt status output (BOLT OUT signal). In this situation, the **Deadbolt monitoring activated** is left unchecked, see the next section.

On the **Timers tab**, the main relay can be configured to delay for several seconds "**Relay Delay timer**" to give the deadbolt time to retract. **Note:** this comes into operation only when **Deadbolt monitoring activated** is not enabled in the Operation tab.
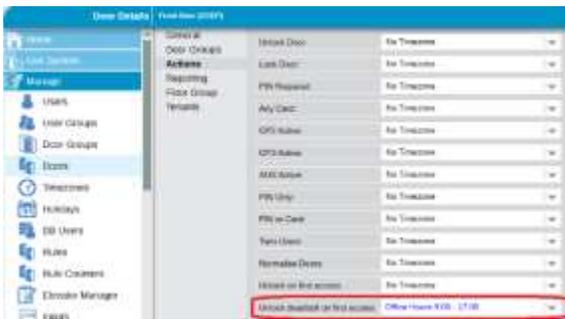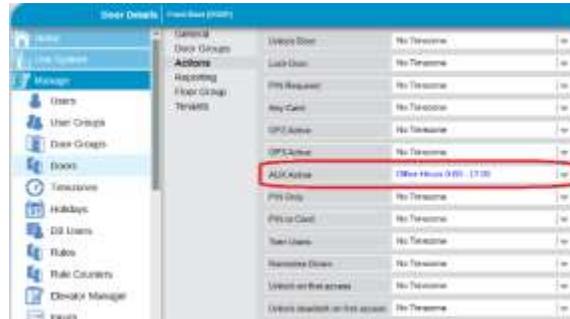

(Optional) On the **OP2 and OP3** tab, select the following checkboxes to activate either or both outputs in the event of a deadbolt problem which are:
- Deadbolt alarm - not secured
- Deadbolt alarm - not withdrawn.

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The deadbolt can be configured to retract (unlock) during a defined time zone (example 9:00 to 17:00) **ACT Manage: Manage > Doors > Actions Tab.**

AUX Active, the AUX relay is activated during the defined time zone and remains active until the end of the time zone.

Unlock deadbolt on first access, the AUX relay is activated during the defined time zone, but only after the system receives a valid access granted and remains active until the end of the time zone.

Report door station version number

ACT Enterprise reports the version number from the ACTpro-100 family of door stations (ACTpro-100, ACTpro-1002A).

Prerequisite:
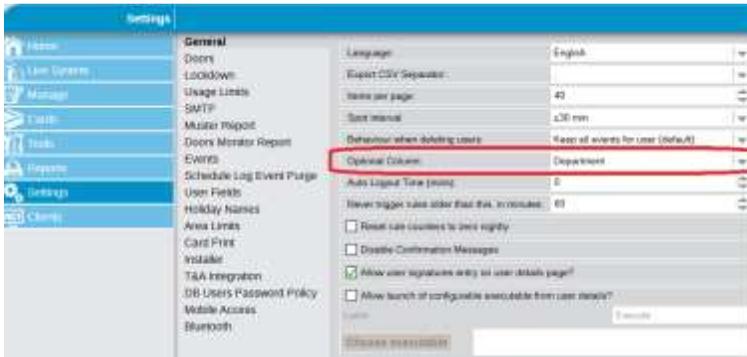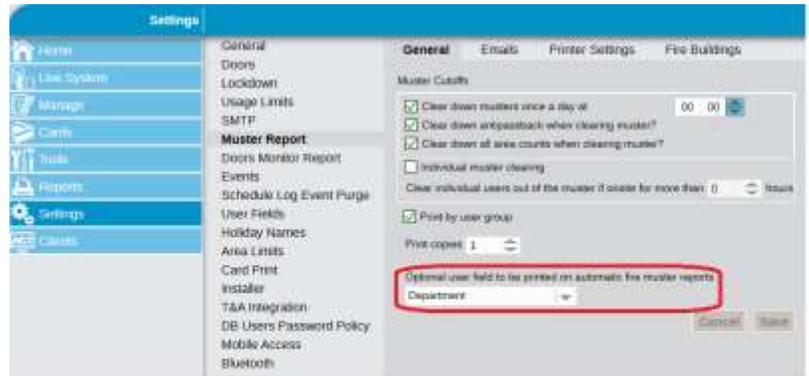Install **ACT Enterprise** or **ACT Enterprise Lite** (free version) 2.11 or later.

From **ACT Install > Advanced Setup > Doors > [Door #] > General** tab, the ACTpro-100 firmare version is displayed on the interface.

Note: From time to time, Vanderbilt adds new features to the ACTpro-100 family of controllers. Controllers already manufactured and in the field will not benefit from the new features as the ACTpro-100 door stations can not be firmware upgraded.

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Add user-defined field to Muster report

From **ACT Manage>Settings>Muster Report,** select the Optional user field to be printed to automatic muster reports (fire report).

From **ACT Manage>Settings> General** select the optional user field to be printed on all reports, including manually run muster reports.

The Chinese language added

Chinese language translation updated and released with ACT Enterprise 2.11.

Bug Fixes

Muster Report overwriting of text fixed:
When the muster report automatically prints on a fire event, the headers' line was overwritten.