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Tech Note 5

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HID Dorado Magnetic Reader Setup

Magnetic readers typically accept two numeric fields of data based on the ABA (American Banking Association) standard. A dip switch on the reader can be set to convert this data to 34-bit Wiegand output.

Follow the procedure below to setup your magnetic readers to work with the eMerge Browser-managed security system.

Set the Rotary dip switch on the reader board:

1. Remove the reader circuit board from the reader. Check the reader manufacturer documentation for instructions.
2. Set the rotary dip switch (shown in the image below) on the circuit board to the correct setting for **9 digit/field2 to 34-bit Wiegand**. This setting will convert the last 9 digits on the card to 34-bit Wiegand output. See the reader manufacturer documentation for the specific setting.

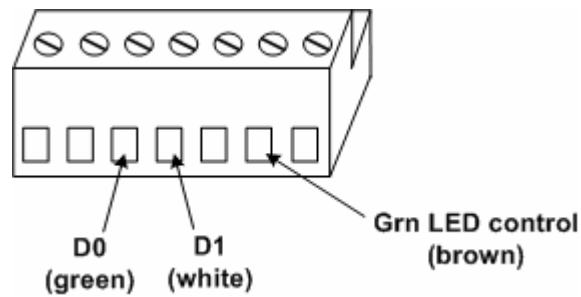


Check the reader manufacturer documentation for the correct setting of this rotary dip switch.

3. Replace the circuit board into the reader.

Wire and mount the reader:

4. Wire power and ground from a separate source to the reader. The eMerge will not power mag readers. HID Dorado mag readers are specified to require from 3.2 VDC to 5.5 VDC. Check the reader manufacturer documentation for specifics.
5. Wire the green D0 wire, the white D1 wire, and the brown LED control wire from the reader to a 7-pin reader connector provided with the Access module of your eMerge system. See the drawing below.



Do not connect the red power wire or the black ground wire to this plug.

6. Plug the 7-pin connector into a reader connector on an Access module.
7. Complete the wall mounting of the mag reader. Check the reader manufacturer documentation for instructions.

Create the Dorado card format:

8. Log in to the security application and select **Setup : Access Control : Card Formats**.
9. Create a card format as follows:

- **Name:** Dorado Mag
- **Bit Length:** 34
- **Facility Code:** 0
- **Bit definitions:** 2 through 33 set to **N**.

10. Click **Save**.

NOTE: See the eMerge online Help for assistance if needed.

Check your setup

11. Follow the procedures in Tech Note 2, the eMerge Quick Start Guide using the magnetic reader as the enrollment reader.