

Technical Note

ACS6100 Frequently Asked Questions - 10/26/2021

Overview

Brivo has introduced the next generation of accessory boards for its ACS6000 control panels. The ACS6100 door boards and input/output boards are smaller and more robust in terms of capabilities than their predecessors. This FAQ is intended to explain some of the questions you might have about the new ACS6100 accessory boards.

Q: What firmware version do I need to use ACS6100 door boards and input/output boards?

You need to have installed firmware version 6.1.8.4 or later to use ACS6100 door boards and input/output boards.

Q: Do I need to change the configuration when replacing an existing ACS6000 door board with an ACS6100 door board?

No. A board upgrade feature will be available to upgrade an ACS6000 door board to a new ACS6100 door board. You will not need to delete the existing ACS6000 door board to replace it with a new ACS6100 door board. However, if your existing ACS6000 door board is currently using its aux 2 relay on either door node, that will need to be removed since the new ACS6100 door board has only one aux relay per door node.

Q: When connecting an OSDP vs. Wiegand reader to the new ACS6100-DB door board, do I need to change the configuration or make any door board switch settings?

No. The default settings are used. The door boards will auto-detect an OSDP vs. Wiegand reader and communicate accordingly. For Brivo Smart Readers that support both OSDP and Wiegand, the reader will establish an OSDP connection. The OSDP reader RS-485 address is address 0 for all readers connected to any of the new ACS6100 door boards.

Q: What is different for the new B-ACS6100-DB door board?

The new door board provides the following key improvements:

- **Half the size** of the current ACS6000 door board. This allows for sites to double the density of door control for the same wall space in tight telecom closets with limited space.
- **OSDP Reader support.** In addition to improved security, OSDP readers allow for firmware upgrade from the cloud, and support the new Fluid Access feature for Brivo Smart Readers with Fluid Access.
- **Automatic Wiegand/OSDP detection.** No configuration is needed for Administrators to set Wiegand or OSDP for the new ACS6100 door boards.
- **Firmware update** from the cloud for the door board MCU.
- CAN bus termination switch instead of jumpers.
- There is only one (1) aux relay per door node with the new ACS6100 door board. The ACS6000 door board has two (2) aux relays per door node.

Q: What is different for the new B-ACS6100-IO input/output board?

The new input/output board provides the following key improvements:

- **Half the size** of the current ACS6000 input/output board. This allows for sites to double the density of door control for the same wall space in tight telecom closets with limited space.
- **Firmware update** from the cloud for the input/output board MCU.
- CAN bus termination switch instead of jumpers.

Q: What is different for the new power supply board (B-ACS6100-PSB)?

The new B-ACS6100-PSB power supply board uses new more up-to-date components and provides equivalent user functionality as the existing B-ACS6000-PSB. Mounting standoffs are the same as the existing B-ACS6000-PSB.

Q: Is there a new B-ACS6100-MBE (or MBA) main controller board?

No. The controller board has not been updated and is still the B-ACS6000-MBE and B-ACS6000-MBA. This existing controller board is fully compatible with the new door board and input/output boards.

Q: Can the new B-ACS6100-DB door board and B-ACS6100-IO input/output board be installed in existing installations with B-ACS6000-MBE/MBA control boards?

Yes. The new boards are half size boards. To install in an existing cabinet, an adapter plate can be purchased to allow retrofitting the new half size boards into the older ACS6000 and ACS6008 chassis.

Q: Will the two door sections of the main controller board support automatic Wiegand/OSDP reader detection?

No. For the two door sections on the main controller board, there are switches on the main controller board that need to be set, and configuration settings that the administrator needs to set properly for Wiegand vs. OSDP readers.

Q: Is there any functional difference between the new ACS6100 input/output board and older ACS6000 input/output board?

No. Functionally, they provide the same eight (8) input and eight (8) output I/O capabilities as the current ACS6000 input/output board.

Q: Are the new ACS6100 accessory (door and input/output) boards backward compatible with ACS5000 controller boards?

Yes, but new ACS6100 Accessory boards will not provide any new capabilities beyond what the current ACS5000 Accessory boards support. For example, ACS6100 OSDP capability is not supported when used with an ACS5000 controller board.

Q: Why did the name change for the complete panel systems from ACS6000/ACS6008 to ACS6100-R and ACS6100-L?

The name 6008 came from supporting eight (8) doors in the large cabinet. The new ACS6100-L cabinet (L=Large) will support up to sixteen (16) doors, and the ACS6100-R cabinet (R= Regular) will support up to eight (8) doors.

Q: Are the new 6100R and 6100L cabinets the same size as the older cabinets?

Mostly. The width and height are the same, and thus **the space taken up on the wall is the same**, but the depth is ½ inch thicker to accommodate the new larger 14 AHr batteries.

Q: Can I put eight (8) new ACS6100 door boards in the older ACS6008 cabinet?

No. The older ACS6008 cabinet only has a single power supply board (PSB). A single power supply board can only drive up to four (4) boards. The new ACS6100-L cabinet comes with two power supply boards to power up to eight (8) boards.

Q: What comes with a B-ACS6100R-E?

- A regular size cabinet
- One B-ACS6000-MBE controller board (can add two additional accessory boards)
- One B-ACS6100-PSB power supply board
- One 14AHr battery (or two 7AHr batteries)

- One 120 VAC to 19 VDC wall transformer
- A four position CAN bus cable and battery cable

Q: What comes with a B-ACS6100L-E?

- A large size cabinet
- One B-ACS6000-MBE controller board (can add six additional accessory boards)
- Two B-ACS6100-PSB power supply boards
- Two 14Ahr batteries
- Two 120 VAC to 19 VDC wall transformers
- An eight position CAN bus cable
- Two battery cables

Q: How many new ACS6100 accessory boards can I run off of an existing B-ACS6000-PSB?

Each ACS6000-PSB (or ACS6100-PSB) power supply board can power up to four ACS5000, ACS6000 or ACS6100 boards.

Q: Can I change out a 6000-PSB for a 6100-PSB and put more 6100 boards in my existing cabinet?

Each ACS6100-PSB power supply board can power up to four boards. So, for an older ACS6008 cabinet with adapter plates, no more than four boards can be added and powered from the single power supply board. However, an ACS6000 power supply board could power four new boards that will now fit in the ACS6000 cabinet with two adapter plates. If you do put four ACS6100 boards in an older ACS6000 cabinet, you can only fit two 7 Ahr batteries, so your backup time will diminish.

Q: Do I need different batteries if I use an ACS6100-PSB?

It depends. The original 7Ahr battery can be used and will supply back up power, but as you add additional accessory boards, the battery backup time will be shortened.

Q: Will the new 14Ahr battery fit in the ACS6000 or ACS6008 cabinet?

No. The new 14Ahr batteries are a half inch too thick to fit in the older ACS6000 and ACS6008 cabinet.

Q: Can I install more than 14 of the new door boards to a single ACS6000 main control board?

No. There remains a 30 door limit per controller. With the 2 door sections on the main control board, this allows for an additional 14 door boards (28 doors) that can be connected to the controller via the CAN bus.

Q: Can I mix older ACS6000 door and input/output boards with the new ACS6100 door and input/output boards on the same CAN bus to the main control board?

Yes.

Q: How many outputs on the ACS6100?

The ACS6100 door board has two (2) relays per door node, one (1) lock and one (1) aux relay. The ACS6000 door board has one (1) Lock and two (2) aux relays per door node.

Q: When will the ACS6100 door and input/output boards update firmware? Will customers be impacted?

Updates, if needed, will occur at the same time that firmware updates for the ACS6000-MBE main controller board are sent to the panel.

Q: Can I order Brivo Onsite equivalents for the new ACS6100 system?

Indirectly. There are no system level panel part numbers. You will need to order B-ACS6100R/L-EXP expansion chassis, and separately order the B-ACS6000-S Brivo Onsite control boards, and individual ACS6100 door and input/output boards.

Part Numbers:

B-ACS6100-DB	Door Board
B-ACS6100-IO	Input/Output Board
B-ACS6100-PSB	Power Supply Board
B-ACS6100-ADPL	Adapter Plate for ACS6000/6008 retrofit

Revision Table

Version	Date	Content
1.0	10/26/2021	Original document