

Destination Input Device (DID) Installation Overview

The Destination Input Devices (used for Destination Based Dispatching) provide call request information to the elevator controllers and elevator assignment directions to the passengers. Instructions for mounting the DID fixtures are provided in separate documents (listed below) and in the controller job prints.

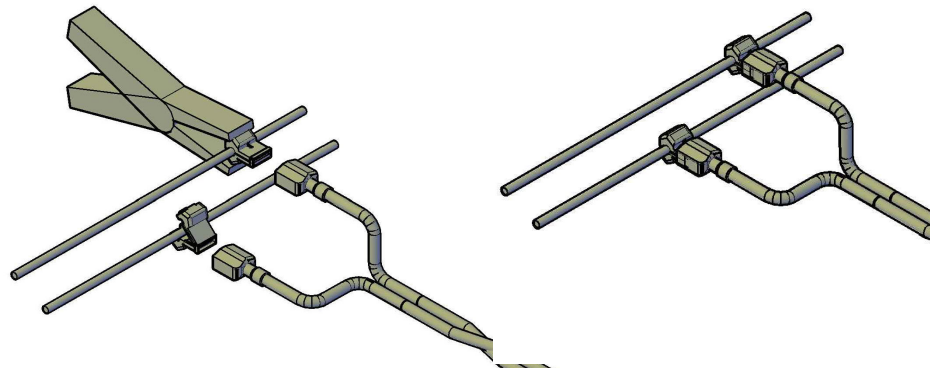
To install and configure the Destination Input Device Perform the following steps:

1. Electrically connect the DID fixture to the CAN/Power drop and install the fixture on the mounting box or back plate. For instructions regarding box installation, refer to DID Mounting Box Installation Instructions (42-IS-0264).
2. Configure Destination Based Dispatching through the iView/iCue/System Configuration.
3. Configure the Destination Input Device.
4. Verify proper operation.

Electrical Connection and Installation

1. Hook up Wires. (See details in the controller job prints.) Crimp wire splices to hoistway cable drop with the following colors:

- Yellow to Yellow (CANL)
- Brown to Brown (CANH)
- Red to Red (+)
- Black to Black (-)



2. Connect the face plate ground (green) to the enclosure using the grounding stud and nut. Ground the fixture box according to local code.
3. Install the fixture.
 - Applied or Vertical mount: Line up the latches on the fixture with the catches on the mounting box and then push straight in. The front plate will snap into place.
 - Surface mount: Center the fixture on the back plate and then tighten the set screws (under/bottom). For further details refer to Surface Mount DID Installation Instructions.
 - For 10.4" DID: 42-IS-0289
 - For 7" DID: 42-IS-0290

iView/iCue/System Configuration/Destination Based Dispatching

Verify that iCue/iCentral System DBD settings are correct through the iView application, iCue connection. Select Help (or press F1) if you have questions about settings.

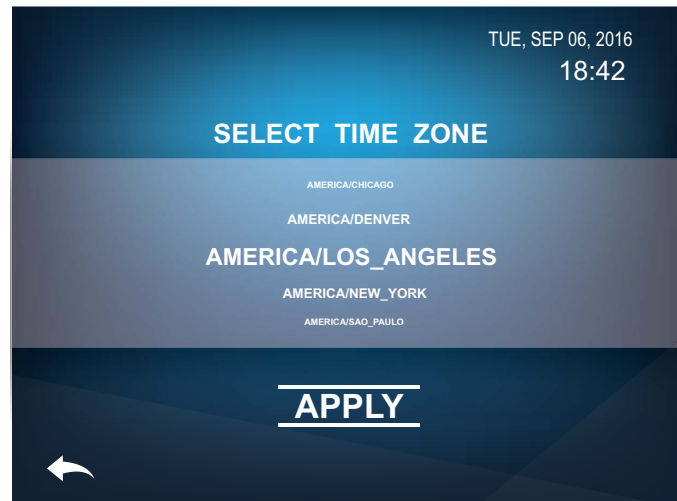
Configure Destination Input Device

iCentral dispatcher with MCE Bridge Board (converts signals to CAN bus) must be powered on. When the DID is initially powered up, it takes a few minutes for the boot process to complete.

Note: If you are booting with a newly installed SD Card, the **Select Device Type** screen appears first. Touch the screen to select CAR POSITION INDICATOR or DESTINATION INPUT DEVICE.

When boot up is complete, the SELECT TIME ZONE screen appears:

- To select a different time zone, swipe up or down in the entry area, then touch APPLY. To exit this screen touch the arrow.



The GROUP CONFIGURATION screen appears next. Information regarding Group Configuration settings can be found in the job prints on page G-DID 4.

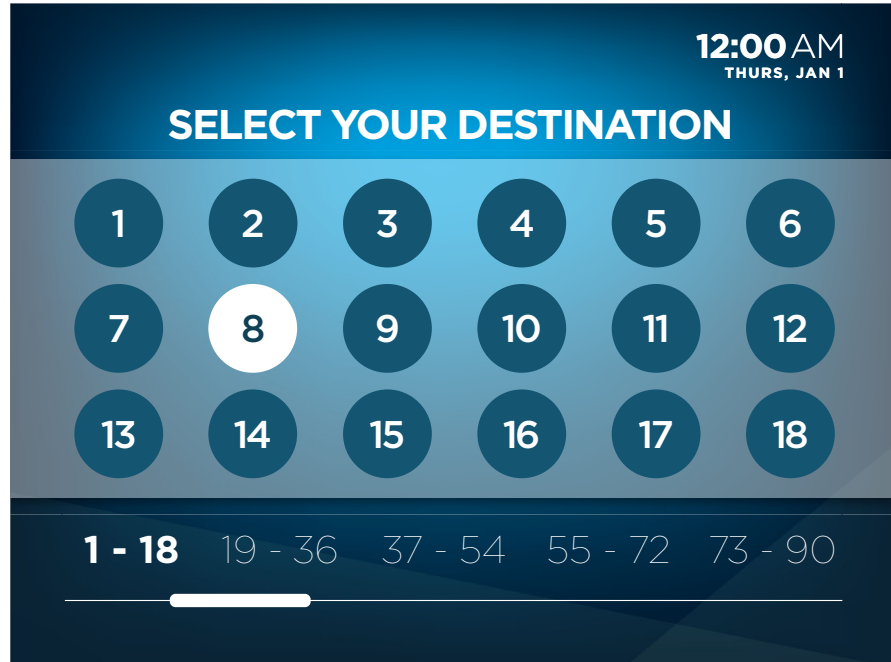
To make an entry, touch the entry area, then enter the value if required:

- DEVICE SOURCE FLOOR:** Set the floor the DID is on (1 - 126).
- DEVICE PHYSICAL LOCATION:** This value is unique to each DID and is used to cue the correct map to the assigned car. Values range from 0 to 62. Check the job prints for factory assignments table. The system installer or the project MCE engineer can help select the correct value.
- GROUP ID:** Set the number of the iCentral group (1 to 5) to which this DID belongs (default = ID1).
- ENTRY SIDE:** Set for Front or Rear doors as appropriate. **Note:** Tapping the slider button will change the setting.
- RISER:** Set to Main. (Aux risers not yet supported.)
- BANK:** Set to A. (Second bank, B, not yet supported.)



Touch APPLY to save your entries or touch the arrow to exit without saving.

Once the GROUP CONFIGURATION settings are entered, the KIOSK MODE screen is then displayed.



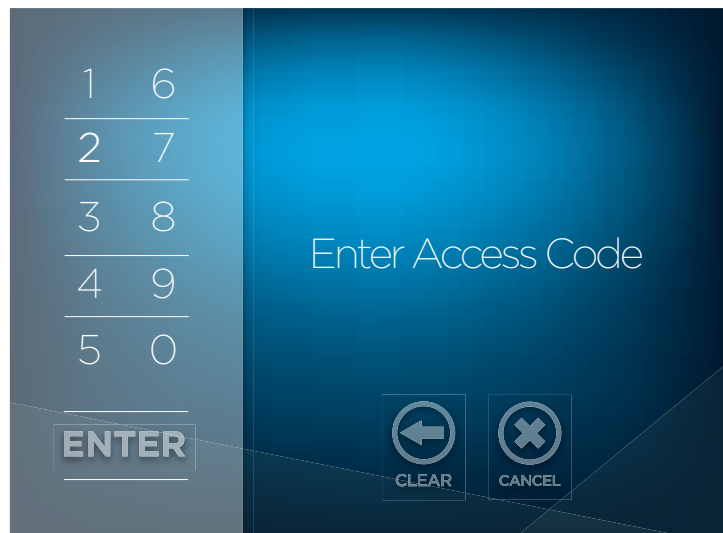
If you wish to access Special Operations or make changes to the KIOSK configuration, touch the upper left corner of the KIOSK MODE screen.

The ENTER ACCESS CODE screen is displayed.

- Touch the numbers to enter your access code and then press ENTER.
- To clear the entries and re-enter the access code press CLEAR.
- Press X to cancel.

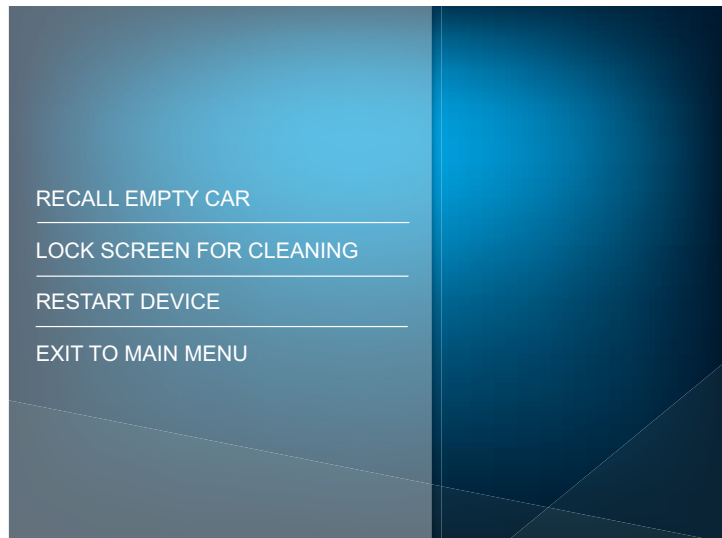


The Access Code is set using iView, connected to the iCue dispatcher (System Configuration *default* > Destination Based Dispatching > Special Operations Configuration > Access code). Enter the desired code (up to ten digits), obtain Write Privilege and click Send.



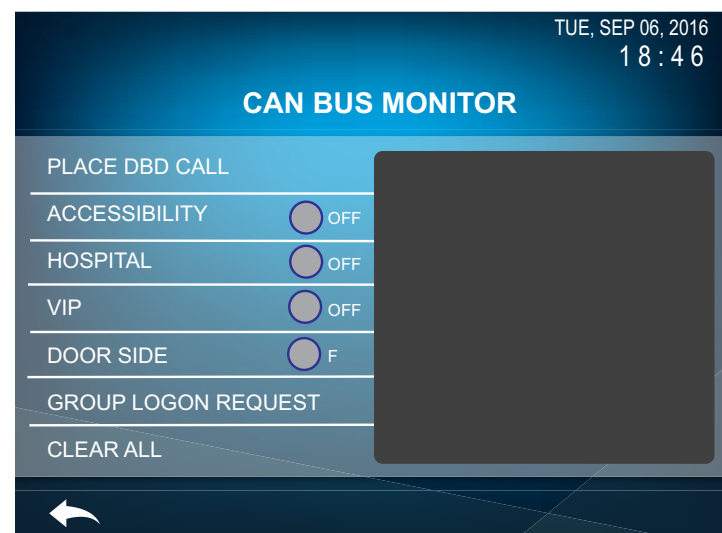
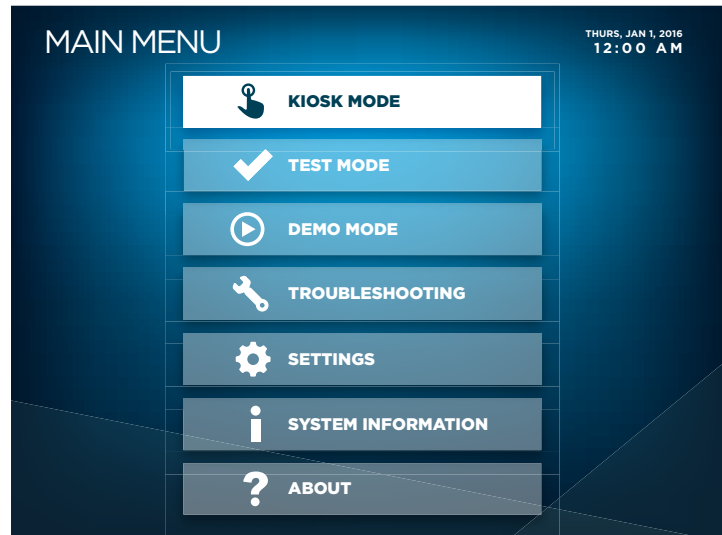
The DBD-Special Operations Menu is displayed. The options on this menu vary depending on the **Allowed feature options** selected in iView > System Configuration > Destination Based Dispatching > Special Operations Configuration .

- **RECALL EMPTY CAR:** Recalls an available car to your location.
- **LOCK SCREEN FOR CLEANING:** Screen will not respond to touches for 60 seconds.
- **RESTART DEVICE:** Causes the fixture application to reboot.
- **EXIT TO MAIN MENU:** Displays the MAIN MENU screen.



The MAIN MENU screen contains the following items :

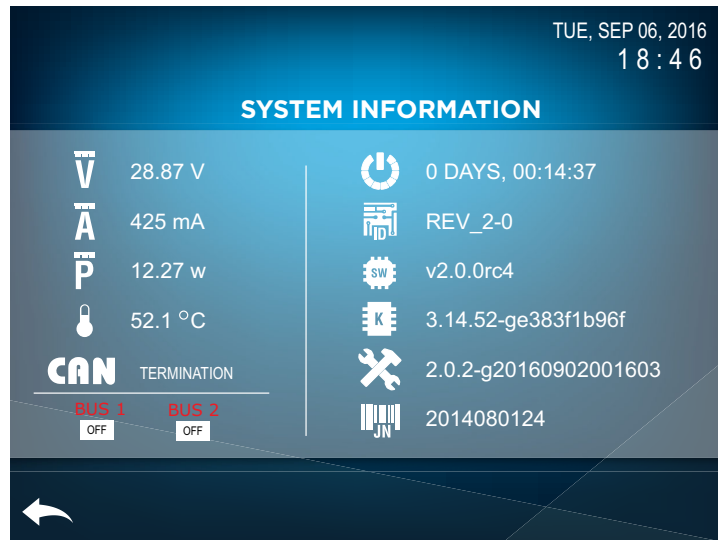
- **KIOSK MODE:** Displays the Kiosk Mode call registration screen.
- **TEST MODE:** Places the device in Test Mode (cycles all screens).
- **DEMO MODE:** Displays Kiosk Mode screen and provides a showcase of the screens. Note: Demo and Test Mode are only available at startup before fixture talks to iCue. Enter ‘1’ when **Application Initializing** is displayed.
- **TROUBLESHOOTING:** Displays the Can Bus Monitor screen. User may place ETA calls if iCue is in ETA mode, or DBD calls including:
 - Accessibility (ADA calls)
 - Hospital (Hospital calls)
 - VIP (VIP calls)
 - Door Side (Front or Rear)
 - Group Logon Request - Request a group logon on - send DID specifics to iCue.
 - Clear All - Clear the CAN dump data from the terminal screen on the right.














- **SETTINGS:** Displays the Settings menu.
 - **SOUND:** Set audio volume and enable **Adaptive Volume Control**.
 - **DISPLAY:** Adjust **Active** and **Power Save** brightness.
 - **LIGHT BAR:** Modify LED strip settings (under fixture).
 - **GROUP:** See Group Configuration on page 2.
 - **NETWORK:** Shows Wireless and Ethernet status, IP and MAC addresses.
 - **TIME:** Set time zone and 12 / 24 hour time display.
 - **THEME:** Select from many **Themes** (look and feel of DID display).



- **SYSTEM INFORMATION:** Displays the System Information screen (see Legend below).



LEGEND

	Supply Voltage		Uptime - since last reboot
	Device current draw		Hardware/software compatibility
	Device power consumption		Software revision
	CPU core temperature		Linux Kernel version
	CAN Bus termination status (CAN 1 & CAN 2)		Software version
			Job Number

Access the DID Configuration Screen without Communication to iCue

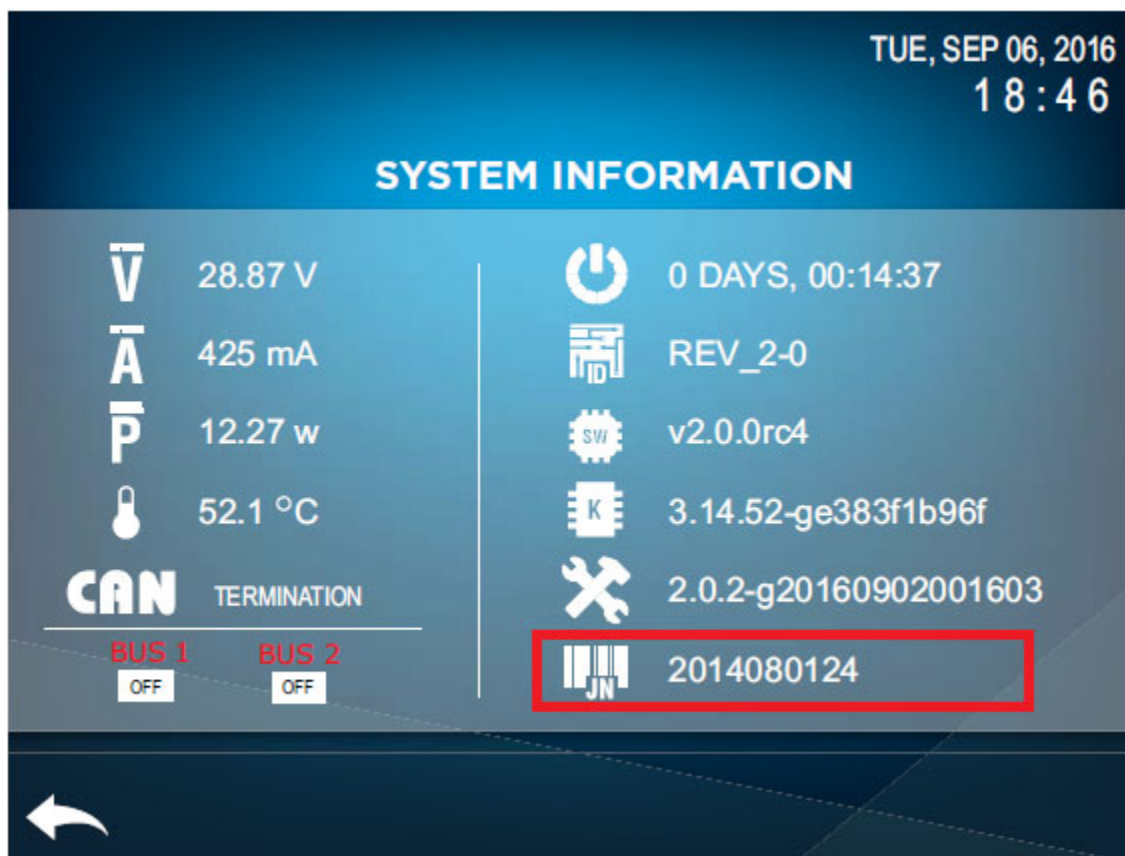
If the DID is not communicating with iView, use the following method to access the configuration screens:

1. Reset kiosk using the reset button on board or power cycling.
2. When the **No Communication with Dispatcher** screen comes up, press hidden button in top left corner.
3. Type in the Master PIN code for the job and hit enter.
4. If the PIN was not entered correctly, go back to step 1 and try again.

Master PIN code for the job is as follows:

- **0**: this is for sales demo cases.
- **1**: this is for standard DID software.
- Full 10 digit 20190xxxxx type job number is for custom DIDs.

If the DIDs are working, the MASTER job number can be found on the System Information Screen.



Verify Proper Operation

Once the DID has been configured, return to the MAIN MENU and select KIOSK MODE. Verify that the DID is able to place calls. Also verify that, based on the elevator assigned, the associated graphics are correct (arrows point in the right direction).

Trouble Shooting Tips

No Communication with Dispatcher message

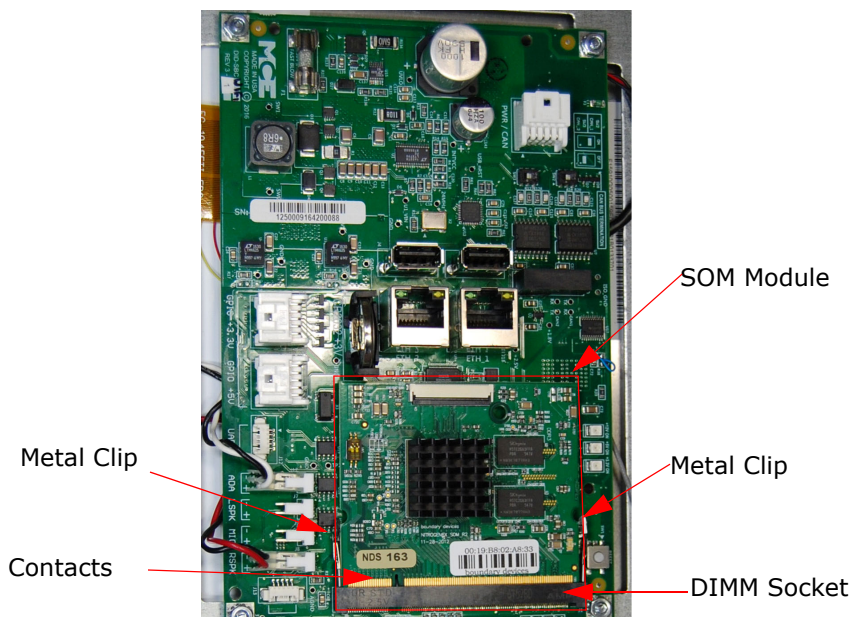
1. Check Source Floor, Group ID, Bank, Source Side, and Physical ID.
2. Check CAN bus.
3. Check CAN termination.

Blank Screen (no text)

1. Remove the fixture from the wall.
2. Check the power supply to the DID. The voltage should be no less than 18 VDC. Verify that the +12V, +5V, and +3.3V LEDs on the DID SBC board are ON.
3. Verify that the Micro SD card is inserted all the way into the socket.
4. Verify that the SOM is correctly installed on the socket header and D1 LED is ON.

DID power is ON but showing one or two lines of code

1. Remove the fixture from the wall.
2. Reset the DID by pressing the **Reset Button** on the DID SBC board.
3. If resetting the DID did not help, remove the power cable at J10, wait for 10 seconds, then reconnect the power cable.
4. Remove and reseat the SD card.
5. Install a new SD card (with the correct software).
6. Remove and reseat the SOM module.
 - Push the metal clips away from the sides of the SOM module to release it. The top of the module will flip up.



- Pull the module up out of the DIMM socket and reinsert it at an approximate 45 degree angle in the socket.
- Ensure the contacts are showing evenly across the lower section of the board above the DIMM socket.
- Press the top down gently while pushing the SOM towards the socket with a light pressure, until the SOM module clicks in place.

Screen turns ON, but half of the screen does not display correctly

1. Remove the fixture from the wall.
2. Remove power to the DID, wait for 1 minute, then reconnect the power cable.

No Sound

1. Check sound level (SETTINGS > SOUND).
2. Check speaker connections.

Sound too loud

1. Check sound level (SETTINGS > SOUND).
2. Turn off Adaptive Volume (SETTINGS > SOUND).

Fixture Specifications

Table 1. DID Fixture Specifications

Intended Use	The Destination Input Devices (used for elevator Destination Based Dispatching) provide call request information to the elevator controllers and elevator assignment directions and information to the passengers.
Technical Specs	The DID is a touch screen display device operated by a microprocessor. It communicates with the elevator controller via CAN bus.
Manufacturer/ Technical Support	Motion Control Engineering, Inc. 11380 White Rock Road Rancho Cordova CA 95742
Equipment Ratings	Supply Voltage: 36 VDC Power Usage: 30 Watts Maximum
Inputs	Ethernet, CAN Bus and 36VDC supply
Maintenance	Clean the touch screen and housing using a dry micro-fiber cloth. For stubborn stains a 50% isopropyl alcohol wipe may be used.
Operation	The device is operated by touching the display screen with a finger.