DESTINATION DISPATCH



VERSION 1.0



Document History

Date	Version	Summary of Changes
January 21, 2025	1.0	Initial Release

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1 Destination Dispatching System Overview

Destination Dispatch (DD) is an advanced system designed to optimize elevator travel time by grouping passengers according to their desired floor destinations. The system minimizes excessive intermediate stops during travel, speeds up transportation, lowers energy consumption by serving more passengers in less time, reduces congestion in waiting areas, and allows for customizable security, functional, and aesthetics options.

Passengers enter the specific floor destination they want using smart kiosks located in the hallways prior to entering the elevator. Depending on several factors (traffic, number of car calls, direction of travel, etc.), the kiosks direct passengers to an appropriate elevator car.

The DD system continuously analyzes real-time passenger origin and destination data, as well as elevator traffic levels during peak and non-peak hours, to optimize car assignments.

2 Features/Specs

Smartrise's DD unit offers key features/specifications:

- Floor and Kiosk Capacity:
 - · Supports up to 96 floors.
 - Supports up to eight kiosks per floor.
- Simple Installation:
 - Straightforward installation a single board and a pair of wires are all that's required for basic setup.
- Field-Adjustable Software Parameters:
 - · Configs can be fine-tuned on site.
- Configuration Options:
 - <u>Hybrid Configuration</u> Kiosks are installed on select high-traffic floors, while conventional hall fixtures are installed on the remaining, less busy, floors.
 - <u>Full Configuration</u> Kiosks are installed on all floors.
- Security Options:
 - · Includes passcode entry security with field-adjustable passcodes.
 - · Includes discrete input security (e.g., key switches, card readers) using additional I/O expansion boards.
 - Supports integration with third-party security systems, such as Braxos.
- Americans with Disabilities Act (ADA):
 - Supports ADA accessibility features, including extended door-opening times, assignment of adjacent elevator, and special annunciations for guidance.
- Advanced Features:
 - Supports advanced features such as split group operation, seamless entry, VIP service, swing car operation, hospital service, car out of service, and more.

3 Operation/Dispatch Logic

Once a call is requested from the kiosk, it is processed by the Destination Dispatch Manager (DDM) in two stages:

Stage I

The DDM evaluates all cars against a list of conditions to determine their eligibility to respond to a call:

- The car is operational and online.
- The car is on normal mode of operation.
- The anticipated weight, considering the number of calls, does not surpass the allowable weight for the car.

The cars that do not meet these criteria are excluded from the selection pool.

Stage II

The selection of a car depends on the outcome of the dispatching algorithm, which can be one of the following:

1. Basic Dispatching

This method assigns the nearest car moving in the same direction as the requested call.

2. Time to Pick-Up

This algorithm calculates the estimated time from call entry to passenger pick-up, factoring in door dwell times and travel time prior to passenger pick-up. The car with the shortest estimated time from call entry to passenger pick-up will be selected.

3. Time to Destination

This algorithm calculates the estimated time from call entry to passenger drop-off, factoring in door dwell times and travel times for both passenger pick-up and drop-off. The car with the shortest estimated time from call entry to passenger drop-off will be selected.

4. Total Cost

This algorithm combines the **Time to Pick-Up** with the **Time to Destination** calculations and factors in the cost or delay of the current passenger's call incurred on other passengers' rides. The car with the lowest estimated **Total Cost** will be selected.

4 Destination Dispatch SRU Board Menu Structure



Figure 1: Destination Dispatch SRU Board Menu Structure

5 Alarms

The Alarms menu shows the alarms reported by the hardware.

5.1 Active Alarms

The Active Alarms menu displays the type of alarm triggered.

The following procedure describes how to view the list of active alarms:

1. Navigate to Main Menu | Alarms

MAIN MENU	
*Alarms	
Setup	
Debu9	

Figure 2: MAIN MENU - Alarms

2. Select Active Alarms.

ALARMS	
*Active	Alarms
Logged	Alarms
Clear L	.09

Figure 3: ALARMS Menu - Active Alarms

Active	Alarms	
DDMH:	Pane101	Offli

Figure 4: Active Alarms Menu

5.2 Logged Alarms

The Logged Alarms displays the history of alarms that have been triggered.

The following procedure describes how to view the list of logged alarms:

- 1. Navigate to Main Menu | Alarms [see Figure 2]
- 2. Select Logged Alarms.

ALARMS			
Active	Alarms		
*Logged	Alarms		
Clear L	.09		

Figure 5: ALARMS Menu	- Logged Alarms
-----------------------	-----------------

ALA	RM I	_0G		
1.	Pan	e101	Off)	line
2.	POR	Rst	В	
3.	WDT	DISP	18	

Figure 6: ALARM LOG Menu

5.3 Clear Log

Under Clear Log, the list of logged alarms can be deleted.

The following procedure describes how to clear the alarm log:

- 1. Navigate to Main Menu | Alarms [see Figure 2]
- 2. Select Clear Log

ALARMS	
Active	Alarms
Logged	Alarms
*Clear l	_09

Figure 7: ALARMS Menu - Clear Log

3. From the **CLEAR ALARM LOG** menu, select **YES**.

CLEAR	ALARM	LOG?	
NC)	YES	
		*	

Figure 8: CLEAR ALARM LOG Menu

6 Setup

Under the Setup menu, the elevator configuration can be set up.

6.1 Panel Setup

Under Panel Setup, the panel configuration can be set up.

6.1.1 Screen Timeout

The Screen Timeout represents the maximum duration a message is displayed on the kiosk screen before timing out. The duration is set in increments of 100 ms.

The following procedure describes how to set the panel's screen timeout:

1. Navigate to Main Menu | Setup

MAIN MENU	
Alarms	
*Setup	
Debu9	

Figure 9: MAIN MENU – Setup

2. Select Panel Setup

SETUP	
*Panel Setup	
Security	
Miscellaneous	

Figure 10: SETUP Menu - Panel Setup

3. Select Screen Timeout

PANEL	_ SETUP	
*Sone	een Timeout	
ADA	Screen Timeout	
Key	Press Timeout	

Figure 11: PANEL SETUP Menu - Screen Timeout

4. Set the Screen Timeout in msec





Figure 12: SCREEN TIMEOUT Menu

5. Scroll right and press **Save**.

6.1.2 ADA Screen Timeout

The ADA Screen Timeout represents the maximum duration a message is displayed on the kiosk screen before timing out during ADA/Assisted mode. The duration is set in increments of 100 ms.

The following procedure describes how to set the panel's ADA screen timeout:

- 1. Navigate to Main Menu | Setup [see Figure 9]
- 2. Select Panel Setup [see Figure 10]
- 3. Select ADA Screen Timeout



Figure 13: PANEL SETUP Menu - ADA Screen Timeout

4. Set the ADA Screen Timeout in msec



Figure 14: ADA SCREEN TIMEOUT Menu

5. Scroll right and press Save.

6.1.3 Key Press Timeout

The Key Press Timeout represents the maximum duration the kiosk waits for key presses during floor selection on a mechanical keypad before processing the call, or before timing out and returning to the home screen when interacting with a multi-entry screen. The duration is set in increments of 100 ms.

The following procedure describes how to set the panel's key press timeout:

- 1. Navigate to Main Menu | Setup [see Figure 9]
- 2. Select Panel Setup [see Figure 10]
- 3. Select Key Press Timeout

PANEL SETUP
Screen Timeout
ADA Screen_Timeout
*Key Press Timeout

Figure 15: PANEL SETUP Menu - Key Press Timeout

4. Set the Key Press Timeout in msec

KEY	PRESS	TIN	1EOUT	
	000	300	msec	
	*			

Figure 16: KEY PRESS TIMEOUT Menu

5. Scroll right and press **Save**.

6.1.4 ADA Key Press Timeout

The Key Press Timeout represents the maximum duration the kiosk waits for key presses during floor selection on a mechanical keypad before processing the call, or before timing out and returning to the home screen when interacting with a multi-entry screen in ADA/Assisted mode. The duration is set in increments of 100 ms.

The following procedure describes how to set the panel's ADA key press timeout:

- 1. Navigate to Main Menu | Setup [see Figure 9]
- 2. Select Panel Setup [see Figure 10]
- 3. Select ADA Key Press Timeout



Figure 17: PANEL SETUP Menu – ADA Key Press Timeout

4. Set the ADA Key Press Timeout in msec





Figure 18: ADA KEY PRESS TIMEOUT Menu

5. Scroll right and press **Save**.

6.1.5 Code Entry Timeout

The Code Entry Timeout represents the maximum duration the kiosk waits for key presses or touches during a security code entry before timing out. The duration is set in increments of 100 ms.

The following procedure describes how to set the panel's code entry timeout:

- 1. Navigate to Main Menu | Setup [see Figure 9]
- 2. Select Panel Setup [see Figure 10]
- 3. Select Code Entry Timeout



Figure 19: PANEL SETUP Menu – Code Entry Timeout

4. Set the Code Entry Timeout in msec



Figure 20: CODE ENTRY TIMEOUT Menu

5. Scroll right and press Save.

6.1.6 ADA Code Entry Timeout

The ADA Code Entry Timeout represents the maximum duration the kiosk waits for key presses or touches during a security code entry before timing out in ADA/Assisted mode. The duration is set in increments of 100 ms.

The following procedure describes how to set the panel's ADA code entry timeout:

1. Navigate to Main Menu | Setup [see Figure 9]

- 2. Select Panel Setup [see Figure 10]
- 3. Select ADA Code Entry Timeout

PANEL	SETUP
ADA	Key Press Timeo
Code	Entry Timeout
*ADA	Code Entry Time

Figure 21: PANEL SETUP Menu – ADA Code Entry Timeout

4. Set the ADA Code Entry Timeout in msec

ADA	CODE	ENT	RY	TI	ME0
	00	9000	ms	ec	
	*				

Figure 22: ADA CODE ENTRY TIMEOUT Menu

5. Scroll right and press **Save**.

6.1.7 Dispatch Response Timeout

The Dispatch Response Timeout represents the maximum duration the kiosk waits for a response from the dispatcher before timing out and displaying the 'No Response from Dispatcher' message. The duration is set in increments of 100 ms.

The following procedure describes how to set the panel's dispatch response timeout:

- 1. Navigate to Main Menu | Setup [see Figure 9]
- 2. Select Panel Setup [see Figure 10]
- 3. Select Dispatch Resp. Timeout

PANEL SETUP	
*Dispatch Re	esp. Time
Weight Per	Call
Rated Load	Car 1

Figure 23: PANEL SETUP Menu – Dispatch Resp. Timeout

4. Set the Dispatcher Resp. Timeout in msec



Figure 24: DISPATCHER RESP. TIMEOUT Menu

5. Scroll right and press **Save**.

6.1.8 Weight Per Call

The Weight Per Call represents the estimated weight of each call, used to estimate the weight of the car's load and determine the maximum number of accepted calls. The weight is set in increments of 10 lbs.

The maximum number of calls a single car can handle simultaneously is determined by dividing the car's Rated Load (see section **6.1.9 Rated Load Car 1-8**) by the Weight Per Call.

The following procedure describes how to set the weight per call:

- 1. Navigate to Main Menu | Setup [see Figure 9]
- 2. Select Panel Setup [see Figure 10]
- 3. Select Weight Per Call

PANEL SETUP	
Dispatch Resp.	Time
*Wei9ht Per Call	
Rated Load Car	1

Figure 25: PANEL SETUP Menu – Weight Per Call

4. Set the Weight Per Call in lbs

WEIGHT	PER C	CALL	
	0000 *	lbs	

Figure 26: WEIGHT PER CALL Menu

5. Scroll right and press **Save**.

6.1.9 Rated Load Car 1-8

The Rated Load Car (1 to 8) represents the rated load capacity, in pounds (lbs), that Car (1 to 8) can support, respectively.

The following procedure describes how to set the car's rated load:

- 1. Navigate to Main Menu | Setup [see Figure 9]
- 2. Select Panel Setup [see Figure 10]
- 3. Select Rated Load Car (1-8)

PANEL 9	SETUP		
Rated	Load	Car	1
Rated	Load	Car	2
Rated	Load	Car	3

Figure 27: PANEL SETUP Menu – Rated Load Car (1-8)

4. Set the Rated Load Car (1-8) in lbs

RATED	LOAD	CAI	R	1	
	0000	0	16	s	
	*				

Figure 28: RATED LOAD CAR (1-8) Menu

5. Scroll right and press Save.

6.1.10 In Proximity Entry

The In Proximity Entry, when set to **On**, overrides the Disable Entry Timer (see section **6.1.11 Disable Entry Timer**), allowing kiosks to process calls while passengers are entering the cars.

The following procedure describes how to enable the In Proximity Entry:

- 1. Navigate to Main Menu | Setup [see Figure 9]
- 2. Select Panel Setup [see Figure 10]
- 3. Select In Proximity Entry





Figure 29: PANEL SETUP Menu – In Proximity Entry

4. Set the In Proximity Entry to On



Figure 30: IN PROXIMITY ENTRY Menu

5. Scroll right and press **Save**.

6.1.11 Disable Entry Timer

The Disable Entry Timer represents the duration during which passengers are prevented from entering any floor call entry on the kiosk during passenger pickup.

NOTE: The In Proximity Entry (see section **6.1.10 In Proximity Entry**), when set to **On**, overrides the Disable Entry Timer, allowing kiosks to process calls while passengers are entering the cars.

The following procedure describes how to set the Disable Entry Timer:

- 1. Navigate to Main Menu | Setup [see Figure 9]
- 2. Select Panel Setup [see Figure 10]
- 3. Select **Disable Entry Timer**

PANEL	SETUP	
In Pr	oximity Entry	
*Disab	le_Entry_Time	r
Enabl	e Dupar Panel	

Figure 31: PANEL SETUP Menu – Disable Entry Timer

4. Set the Disable Entry Timer in sec





Figure 32: DISABLE ENTRY TIMER Menu

5. Scroll right and press **Save**.

6.1.12 Enable Dupar Panel

The Enable Dupar Panel, when set to **On**, activates communication with the Dupar panel.

The following procedure describes how to enable the Dupar panel:

- 1. Navigate to Main Menu | Setup [see Figure 9]
- 2. Select Panel Setup [see Figure 10]
- 3. Select Enable Dupar Panel



Figure 33: PANEL SETUP Menu – Enable Dupar Panel

4. Set the Enable Dupar Panel to On



Figure 34: ENABLE DUPAR PANEL Menu

5. Scroll right and press Save.

6.2 Security [Enable Security]

When set to **On**, floor security will be determined by the inputs enabled on expansion boards connected to the DDMA.

The following procedure describes how to enable the security device:

1. Navigate to Main Menu | Setup [see Figure 9]

2. Select Security



Figure 35: SETUP Menu – Security

3. Select En. Security Device



Figure 36: SECURITY Menu - En. Security Device

4. Set En. Security Device to On

EN.	SECURITY	DEVICE
	On *	

Figure 37: EN. SECURITY DEVICE Menu

5. Scroll right and press Save.

6.3 Miscellaneous

The Miscellaneous menu provides additional configuration and functionality options.

6.3.1 Dispatch Type

There are four dispatch types: basic = 0, total cost = 1, time to dest = 2, and time to pickup = 3 (see section **3 Operation/Dispatch Logic**).

The following procedure describes how to set the desired dispatch type:

- 1. Navigate to Main Menu | Setup [see Figure 9]
- 2. Select Miscellaneous



Figure 38: SETUP Menu – Miscellaneous

3. Select Dispatch Type





4. Set the Dispatch Type

DISPAT TIME T	CH TYPE O DEST
	002
	*

Figure 40: DISPATCH TYPE Menu

5. Scroll right and press Save.

6.3.2 Default All

The system can be restored to its original factory settings.

The following procedure describes how to perform the restoration:

- 1. Navigate to Main Menu | Setup [see Figure 9]
- 2. Select **Miscellaneous** [see Figure 38]
- 3. Select Default All



Figure 41: MISC Menu – Default All

4. From the **DEFAULT ALL** menu, select **YES**.





7 Debug

The Debug menu provides access to important debugging information and allows for parameter configuration.

7.1 Edit Parameters

Parameters can be edited in binary, decimal, or hexadecimal format. For 1-bit parameters, the binary option is fundamentally included within the hexadecimal and decimal formats.

The following procedure describes how to edit parameters:

1. Navigate to Main Menu | Debug

MAIN MENU			
Alarms			
Setup			
*Debu9			

Figure 43: MAIN MENU – Debug

2. Select Edit Parameters

DEBUG	
*Edit	Parameters
View	Group Packets
View	Debu9 Data

Figure 44: DEBUG Menu - Edit Parameters

3. Select either Hex Format or Decimal Format



Figure 45: PARAMETER EDIT Menu

4. Edit the address (see section **11 Destination Dispatch Parameters**)



Figure 46: EDIT AS BINARY Menu



Figure 47: EDIT AS HEX Menu

EDI	Т	AS	D	ΕC	II	٩P	I					
мн 32-	00	00=		00	90	30	19	0	0	0	0	
*												

Figure 48: EDIT AS DECIMAL Menu

5. Scroll right and press Save.

7.2 View Group Packets

Under View Group Packets, view raw data and receive packet counts exchanged between group cars via the GN network.

The following procedure describes how to view group packets:

- 1. Navigate to Main Menu | Debug [see Figure 43]
- 2. Select View Group Packets.



Figure 49: DEBUG Menu - View Group Packets



(LSB)	F0	ØF	83	50
	01	63	00	3F
PACKET 0	00			
	*	RX:	001	15

Figure 50: VIEW GROUP PACKETS Menu

NOTE: LSB stands for Lowest Significant Byte.

7.3 View Debug Data

Under View Debug Data, important debugging information is displayed.

The following procedure describes how to view debug data:

- 1. Navigate to Main Menu | Debug [see Figure 43]
- 2. Select View Debug Data.

DEBUG	Developer
View	Group Packets
*View	Debug Data

Figure 51: DEBUG Menu - View Debug Data

View Debu9 009 (DDMB	UE VE)a ER	tS	a	>		
*							
v.64px							

Figure 52: View Debug Data Menu

7.4 Assigned Calls

Under Assigned Calls, calls made from a specific kiosk and assigned to a particular car are displayed.

The following procedure describes how to view assigned calls:

- 1. Navigate to Main Menu | Debug [see Figure 43]
- 2. Select Assigned Calls.

DEBUG	}					
*Assi	9ned	Cal	1	s		
Car	Data					
Car	Desti	nat	i	ons	3	

Figure 53: DEBUG Menu - Assigned Calls

Car	1	 L	a	n	d	i	n	9	0	1	^
	*										

Figure 54: ASSIGNED CALLS Menu

7.5 Car Data

Under Car Data, important dispatching and car status information exchanged between grouped cars can be viewed. This data can be used to debug dispatching issues.

The following procedure describes how to view car data:

- 1. Navigate to Main Menu | Debug [see Figure 43]
- 2. Select Car Data.



Figure 55:	DEBUG	Menu -	Car	Data
------------	-------	--------	-----	------

CAR 1 - ON [M] >	CAR1 - ON [M] <>
A-NORM - IN GRP IS.	HMF: 0x0000003
C-01 D-01 R-01 M-ST	HMR: 0x0000000C
[] [] P-UP	HML: 0x0000000F
CAR1 - ON [M] <>	CAR1 - ON [M] <>
OMF1: 0xFFFFFFFF	OMR1: Ø×FFFFFFE5
OMF2: 0x00000001	OMR2: Ø×FFFFFFFF
OMF3: 0x00000000	OMR3: Ø×FFFFFFFFF

Figure 56: CAR DATA Menu

The Car Data menu displays the following:

- **Car ID:** Displays the car's unique ID number (valid range: 1–8).
- Online Status: Displays ON if the car is online and broadcasting on the group network; otherwise, displays OFF.
- Master Status: Displays [M] if the car is acting as the master dispatcher for the group.
- **Class and Mode of Operation:** Displays the car's class of operation as a single-letter abbreviation, followed by its mode of operation.
- In Group Status: Displays IN GRP if the car is in group and currently accepting hall calls.

- **ISR Flags:** Displays specific flags based on the car's status:
 - I (Idle): The car is idle and capable of performing a direction change.
 - **S (Stopped):** The car is stopped or decelerating.
 - R (Reopen Blocked): The car's doors are blocked from reopening in preparation for a run.

If none of the above apply, '.' is displayed.

- Current Landing: Displays the car's current landing number, prefixed with C-.
- Destination Landing: Displays the car's destination landing number, prefixed with D-.
- Reachable Landing: Displays the car's nearest estimated reachable landing number, prefixed with R-.
- Motion Status: Indicates the car's motion state:
 - **M-UP** for upward movement.
 - **M-DN** for downward movement.
 - **M-ST** if the car is stationary.
- Direction Priority: Displays the car's direction priority:
 - **P-UP** when serving up calls.
 - **P-DN** otherwise.
- Hall Mask Front [HMF]: Marks which front hall calls the car can serve.
- Hall Mask Rear [HMR]: Marks which rear hall calls the car can serve.
- Hall Mask Latchable [HML]: Marks which hall calls can be latched.
- Opening Map Front [OMF]: OMF1, OMF2, and OMF3 represent the hex values for front openings on landings 1–32, 33–64, and 65–96, respectively.
- Opening Map Rear [OMR]: OMR1, OMR2, and OMR3 represent the hex values for rear openings on landings 1–32, 33–64, and 65–96, respectively.
- Security Map Front [SMF]: SMF1, SMF2, and SMF3 represent the hex values for security enabled on the front openings on landings 1–32, 33–64, and 65–96, respectively.
- Security Map Rear [SMR]: SMR1, SMR2, and SMR3 represent the hex values for security enabled on the rear openings on landings 1–32, 33–64, and 65–96, respectively.
- Linked Hall Mask [LM]: Used to tie together the lamps of separate hall buttons. The first mask (LM1) pairs the front Hall Call boards and the second mask (LM2) pairs the rear Hall Call boards.
- Hall Security Map [HSO]: Marks landings requiring hall security contacts.

- Hall Security Mask [HSM]: Displays enabled secured hall calls. BYP status is ON when hall security is disabled.
- F2F: The car's estimated floor to floor (worst-case) travel time.
- **CCD:** Duration doors remain open when responding to car calls.
- HCD: Duration doors remain open when responding to hall calls.
- **bVIP:** Displays **1** when VIP Mode is enabled.
- **bCarCapture:** Displays **1** when the car is being captured before a VIP call assignment.
- **bCarReady:** Displays **1** when the car is captured and ready to take a VIP call assignment.
- VIP Masks [F,R Masks]: Marks which hall riser functions the car can serve in VIP Mode.
- **Car Call Enable [CCEN]:** Displays a bitmap signalling the bypass status of car call security. Each bit represents a front or rear opening for a specific group landing.

7.6 Car Destinations

The Car Destinations displays the status of a car's destination in the group.

The following procedure describes how to view car destinations:

- 1. Navigate to Main Menu | Debug [see Figure 43]
- 2. Select Car Destinations.



Figure 57: DEBUG Menu – Car Destinations

DESTINATI	ON CAR1	[M]
Landin9:	NONE	
Type:	N/A	
Mask:	0×0000	3000

Figure 58: DESTINATION CAR Menu

The Car Destination menu displays the following:

- Landing: The car's current destination landing number.
- **Type:** The destination assignment's call type.
- Mask: The hall call mask for the car's current destination assignment based on the car's current hall destination mask front (HMF)/rear (HMR) fields. The hall call mask of the calls are cleared after the car arrives at the destination floor.

7.7 Panel Status

The Panel Status displays the status of each panel at specific landings.

The following procedure describes how to view the panel status:

- 1. Navigate to Main Menu | Debug [see Figure 43]
- 2. Select Panel Status.



Figure 59: DEBUG Menu – Panel Status

Panel	Landin9 1	\sim
L1:	INACTIVE	
L2:	INACTIVE	
L3:	INACTIVE	

Figure 60: PANEL STATUS Menu

7.8 Expansion Status

The Expansion Status displays the input/output of an expansion board in service.

The "IN:" and "OUT:" display any active inputs or outputs on the board.

The following procedure describes how to view the expansion status:

- 1. Navigate to Main Menu | Debug [see Figure 43]
- 2. Select Expansion Status



Figure 61: DEBUG Menu – Expansion Status

3. Select any Expansion board.

EXPANSION 9	STATUS
Expansion	1
Expansion	2
Expansion	3

Figure	62: EXPA	NSION	STATUS	Menu
1 ISUI U	02. 2/11 / 1	100010	01/11/00	i ionu

EXP01 - IN: 0x00	OFFLINE
ERR: Unk	nown

Figure 63: EXPASION BOARD STATUS Menu

7.9 Total Cost Data

The Total Cost Data displays the operation/dispatch logic debugging information.

The following procedure describes how to view the Total Cost data:

- 1. Navigate to Main Menu | Debug [see Figure 43]
- 2. Select Total Cost Data

DEBUG
Panel Status
Expansion Status
*Total Cost Data

Figure 64: DEBUG Menu – Total Cost Data



Figure 65: TOTAL COST DATA Menu

7.10 Panel Call Status

The Panel Call Status displays the direction of a car when a kiosk call is placed.

The following procedure describes how to view up or down calls:

- 1. Navigate to Main Menu | Debug [see Figure 43]
- 2. Select Panel Call Status



Figure 66: DEBUG Menu – Panel Call Status

3. Select either Up Calls or Down Calls

PANEL	CALL	STATU	JS
UP C	alls		
Down	Call	5	

Figure 67: PANEL CALL STATUS Menu



Figure 68: UP PANEL CALL STATUS Menu



Figure 69: DOWN PANEL CALL STATUS Menu

7.11 Kiosk CAN Packets

Under Kiosk CAN Packets, data transmitted to and received from the kiosks can be viewed.

The following procedure describes how to view Kiosk CAN Packets:

- 1. Navigate to Main Menu | Debug [see Figure 43]
- 2. Select Kiosk CAN Packets.



Figure 70: DEBUG Menu – Kiosk CAN Packets

^	58200300
	00 50755500
Ÿ	020000000000000000

Figure 71: KIOSK CAN PACKETS Menu

8 About

The About menu displays the job name and software version.

The following procedure describes how to access the About page:

1. Navigate to Main Menu | About





Figure 72: MAIN MENU – About

2. Select About.

1	TESTJOB
	DDM
DD	MANAGER - 96
Vers.	01.04.01a0

Figure 73: ABOUT Menu

9 Setup Security Code by Floor Opening

Smartrise's DDM offers the ability to secure floor openings, allowing access only to authorized personnel with a predefined security access code.

To setup the security access code by floor opening, follow these instructions:

- 1. Enable parameter **01-0000** (Enable Security Code)
- 2. Enable security access code for:

a) Front Openings

The security access code for front openings can be enabled using parameters **24-0000** to **24-0095** (Sec Code Front (0-95)), with each parameter corresponding directly to a specific floor's front opening:

- Enabling 24-0000 activates the security access code for the front opening on the first floor
- Enabling **24-0001** activates the security access code for the front opening on the second floor, and so on for the subsequent floors.

After enabling the parameter, set a four-digit access code. Each opening can have a unique access code or share the same code across multiple floors.

NOTE: the four-digit code cannot be 0000, as this would leave the security access code disabled.

Rule of Thumb: To determine the correct parameter for enabling the access code of the front opening on a specific floor, subtract 1 from the desired floor number, then add the result to **24-0000**. This will give the parameter to enable.

Example of setting the security access code as '1234' for the front opening on the 20th floor

To enable the security access code for the front opening on the 20th floor:

- Subtract 1 from 20 (resulting in 19).
- Add 19 to **24-0000**, which gives **24-0019**.
- Activate parameter **24-0019** by navigating to **Main Menu | Debug | Edit Parameters | Decimal** Format.
- Set the parameter value as **00001234**.
- Scroll right and click on **Save**.

Test by performing the following steps:

- Place a kiosk call to the 20th floor's front opening. A pop-up will appear requesting the access code.
- Enter the access code for the front opening on the 20^{th} floor (**1234**).
- Tap on 'E' to register the code. The call will latch, and the appropriate car will be assigned. NOTE: To clear the access code entered for any reason, tap on 'C'.

b) Rear Openings

The security access code for rear openings can be enabled using parameters **24-0096** to **24-0191** (Sec Code Rear (0-95)), with each parameter corresponding directly to a specific floor's rear opening:

- Enabling **24-0096** activates the security access code for the rear opening on the first floor
- Enabling **24-0097** activates the security access code for the rear opening on the second floor, and so on for the subsequent floors.

After enabling the parameter, set a four-digit access code. Each opening can have a unique access code or share the same code across multiple floors.

NOTE: the four-digit code cannot be 0000, as this would leave the security access code disabled.

Rule of Thumb: To determine the correct parameter for enabling the access code of the rear opening on a specific floor, add the desired floor number to **24-0095**. This will give the parameter to enable.

Example of setting the security access code as '0012' for the rear opening on the 20th floor

To enable the security access code for the rear opening on the 20th floor:

- Add 20 to **24-0095**, which gives **24-0115**.
- Activate parameter 24-0115 by navigating to Main Menu | Debug | Edit Parameters | Decimal Format.
- Set the parameter value as **00000012**.
- Scroll right and click on **Save**.

Test by performing the following steps:

- Place a kiosk call to the 20th floor's rear opening. A pop-up will appear requesting the access code.
- Enter the access code for the rear opening on the 20th floor (**0012**).
- Tap on 'E' to register the code. The call will latch, and the appropriate car will be assigned. NOTE: To clear the access code entered for any reason, tap on 'C'.

10 Activating Special Modes of Operation via the Kiosk

Smartrise's DDM enables the activation of specific modes of operation through the kiosk interface.

This feature can be access-code protected if desired.

Setting Up an Access Code:

To configure an access code required to view the list of available modes of operation, follow these steps:

- 1. Activate parameter **24-0192** (Mode of Operation Screen Passcode) by navigating to **Main Menu | Debug | Edit Parameters | Decimal Format**.
- 2. Enter and save the four-digit access code desired in this format **0000XXXX**, where **XXXX** represents the fourdigit access code.

Accessing and Activating Special Modes:

To access and activate special modes, follow these steps:

- 1. On the kiosk display screen, tap on the bottom left corner. A numeric touchpad will appear.
- 2. View the list of special modes:
 - i. If no access code was set (default code kept as **0000**), tap on 'E'.
 - ii. If an access code was set, enter the four-digit passcode and tap on 'E'.

NOTE: To clear the access code entered for any reason, tap on 'C'.

3. Select the desired mode of operation from the list to activate it.

11 Destination Dispatch Parameters

The table below outlines the configurable parameters associated with DDM.

Number	String	Default Group	Min Value	Max Value	Default Value	Description
01-0000	Enable Security Code	GRP1	0	1	config	Enabling the bit prompts the need for a four-digit code to execute a call. The code is set using parameters 24 (0000 to 0191).
01-0001	Proximity Entry	GRP1	0	1	config	Enabling the bit allows the kiosks to process calls while passengers are entering the cars, overriding the Disable Entry Timer (08-0008).
01-0002	Enable Security Device	GRP1	0	1	config	Enabling the bit ensures the floor security is determined by the inputs enabled on expansions connected to the DDMA.
01-0003	Enable Dupar Panel	GRP1	0	1	config	Enabling the bit will activate communication with the Dupar panel.
01-0004	Security Contact NC	GRP1	0	1	config	Enabling the bit ensures the security inputs function as normally closed.
01-0007	Kiosk Traditional Mode	GRP1	0	1	0	Enabling the bit ensures that the kiosk display remains the same as during normal operation, blocking pop-up screens from other modes of operation.
01-0008	Enable Car Selection Lamp	GRP1	0	1	config	Enabling the bit ensures that the hall lanterns are connected to CAN2. In this configuration, the hall lanterns serve as "car selection" indicators, where the up and down lanterns for the selected car will illuminate on the kiosk floor.
01-0009	Enable CC Security COP	GRP1	0	1	config	Enabling the bit mirrors the in-car security on the DDM. Once a call request to a secured floor is made from the kiosk and the car arrives at the pickup location, the enable key input for the corresponding floor must be activated inside the car before the doors close to latch the call to the secured floor.
01-0012	Enable Braxos Security	GRP1	0	1	0	Enabling the bit activates the Braxos security, which takes priority over the other securities.
01-0013	Braxos Offline All Secured	GRP1	0	1	0	Enabling the bit will secure all floors when the Braxos device is offline. Disabling the bit will leave all floors unsecured when the Braxos device is offline.
08-0000	ScreenTO_100m s	GRP1	0	255	20	Sets the maximum duration a message is displayed on the kiosk screen before timing out. The duration is set in increments of 100 ms.

Destination	n Dispatch User Mar	nual				
08-0001	ScreenAssistTO_ 100ms	GRP1	0	255	40	Sets the maximum duration a message is displayed on the kiosk screen before timing out during ADA/Assisted mode. The duration is set in increments of 100 ms.
08-0002	KeyTO_100ms	GRP1	0	255	5	Sets the maximum duration the kiosk waits for key presses during floor selection on a mechanical keypad before processing the call, or before timing out and returning to the home screen when interacting with a multi-entry screen. The duration is set in increments of 100 ms.
08-0003	KeyAssistTO_100 ms	GRP1	0	255	5	Sets the maximum duration the kiosk waits for key presses during floor selection on a mechanical keypad before processing the call, or before timing out and returning to the home screen when interacting with a multi-entry screen in ADA/Assisted mode. The duration is set in increments of 100 ms.
08-0004	CodeTO_100ms	GRP1	0	255	20	Sets the maximum duration the kiosk waits for key presses or touches during a security code entry before timing out. The duration is set in increments of 100 ms.
08-0005	CodeAssistTO_1 00ms	GRP1	0	255	20	Sets the maximum duration the kiosk waits for key presses or touches during a security code entry before timing out in ADA/Assisted mode. The duration is set in increments of 100 ms.
08-0006	DispRespTO_100 ms	GRP1	0	255	20	Sets the maximum duration the kiosk waits for a response from the dispatcher before timing out and displaying the 'No Response from Dispatcher' message. The duration is set in increments of 100 ms.
08-0007	WeightPerCall_1 0lb	GRP1	0	255	30	Sets the estimated weight of each call, used to estimate the weight of the car's load and determine the maximum number of accepted calls. The weight is set in increments of 10 lbs.
08-0008	Disable Entry Timer sec	GRP1	0	30	10	Sets the duration during which passengers are prevented from entering any floor call entry on the kiosk during passenger pickup.
08-0009	Dispatch Type	GRP1	0	3	0	Sets one of the four dispatch types: basic = 0, total cost = 1, time to dest = 2, and time to pickup = 3.
08- (0010 to 0105)	Panel Opening Map (1-96)	GRP1	0	255	0	Sets the kiosk location at the front (0) or rear (1) opening on floor (1 to 96), respectively.



						Example: 00011010 indicates that kiosks 2,4, and 5 are located at the rear openings and the others are located at the front openings. In decimal format, this is equivalent to 26.
16- (0000 to 0007)	Rated Load Car (1-8)	GRP5	0	65535	0	Sets the rated load capacity, in pounds (lbs), that Car (1 to 8) can handle, respectively.
24- (0000 to 0095)	Sec Code Front (0-95)	GRP1	0	16777 215	0	Sets the four-digit security passcode of floor (1 to 96) front when 01-0000 is ON, respectively.
24- (0096 to 0191)	Sec Code Rear (0-95)	GRP1	0	16777 215	0	Sets the four-digit security passcode of floor (1 to 96) rear when 01-0000 is ON, respectively.
24-0192	Mode of Operation Screen Passcode	GRP1	0	16777 215	0	Sets the four-digit security passcode required to access the list of available modes of operation (MOP) that can be activated from the kiosk.