KEENON

T5 LS & T8 LS Wireless Calling Solution

International GTM 2022 Dec 23

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Background and Function

Background	Service of the robot is required when the robot is not nearby.
Function	Press the button on the Call Button and the robot for the corresponding service will go to the exact place to serve.

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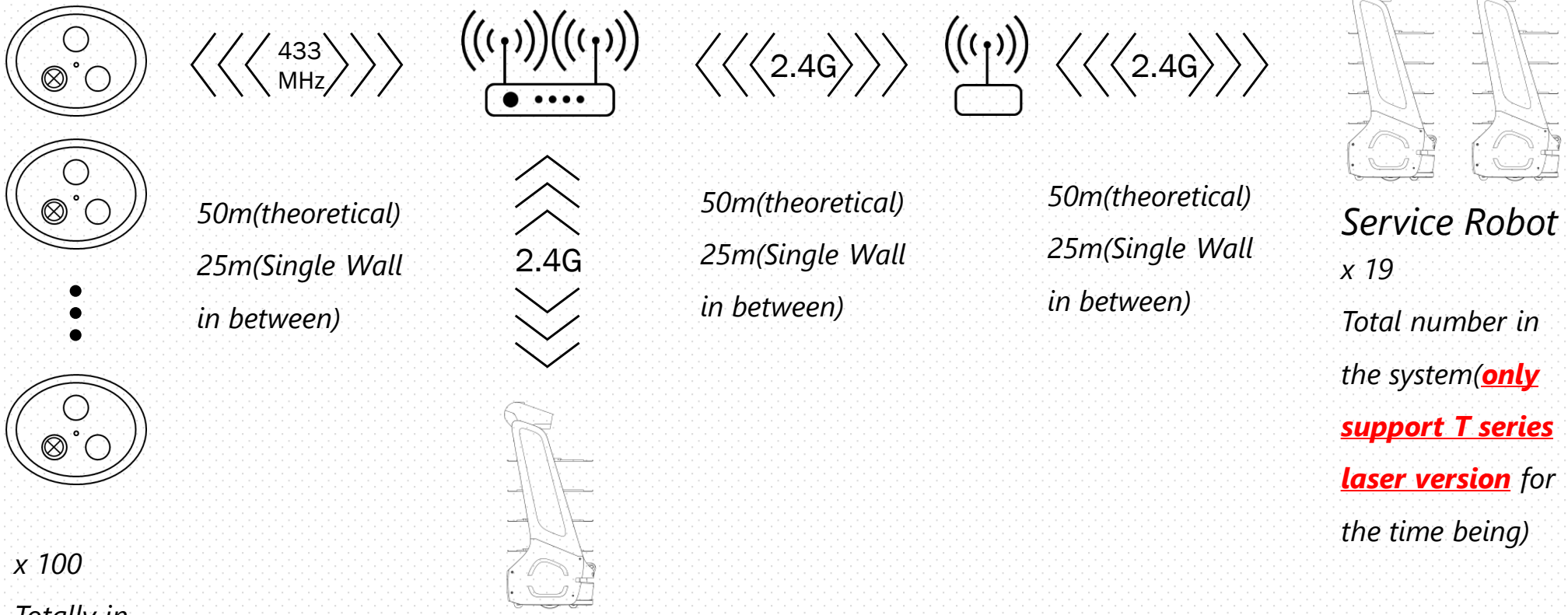
System Typology



*Total number of the receivers, the bridges and the robots can not be more than 20.

Components *Call Button*

Three Buttons

Bottom left button is fixed for 'Cancel'.

Different stickers can be used on the other two buttons according to the actual use.

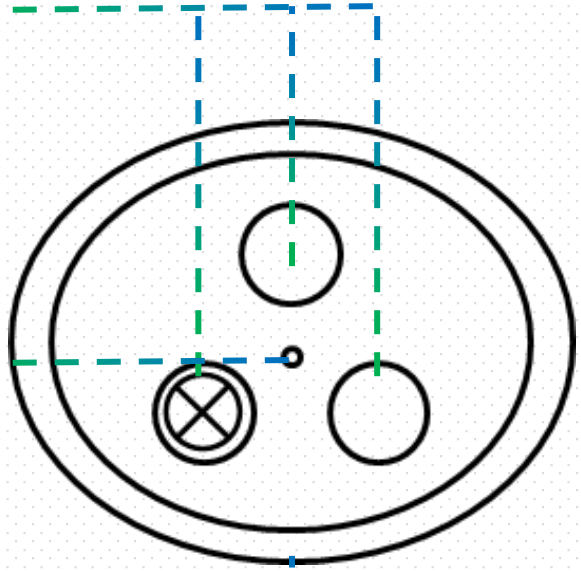
One White Light Indicator

The indicator will be on when the button is pressed and will be off when the button is released.

Double-side Tape on the back

To easily fix the Call Button on the table or the wall.

**Screws can also be used to fix the Call Button.*



Call Button Data	
Product Size	72 x 57 x 22mm
Net Weight	TBD
Button Quantity	3
Lifespan of Button	Million Times
Surface Material of Button	PVC
Shell Material	ABS
Operating Temperature, Humidity	0 - 40℃, RH： <=98%
Battery Required	12V 23A x 1
Working Current	50mA
Battery Life	> 3000 times press

Components Receiver

Antenna

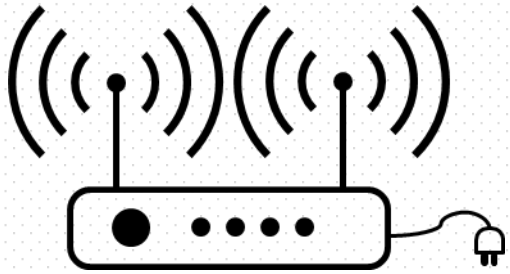
Two antennas on the front panel of the receiver. The left one(when facing the receiver) is used to connect the Call Button and the right, the robot.

Power Supply

Stable power supply is required during the operation of the receiver.

Suggested Deployment Location

It is suggested that put the receiver in the center of the service area and fix it on the ceiling so the receiver will provide the maximum possible coverage.



Receiver Data	
Product Size	220 (W) *135 (H) *48 (D) mm
Net Weight	TBD
Shell Material	ABS
Operating Temperature, Humidity	0 - 40℃, RH: <=98%
Power Supply	DC 12V 1A/12W (AC TO DC, 100~240V)
Maximum Pairing with Call Button	100
Antenna Quantity	2

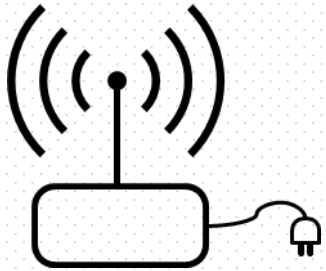
Components *Bridge*

Antenna

One antenna on the front panel of the bridge to connect to the robot.

Power Supply

Stable power supply is required during the operation of the bridge.



Bridge Data	
Product Size	220 (W) *135 (H) *48 (D) mm
Net Weight	TBD
Shell Material	ABS
Operating Temperature, Humidity	0 - 40℃, RH: <=98%
Power Supply	DC 12V 1A/12W (AC TO DC, 100~240V)
Antenna Quantity	1

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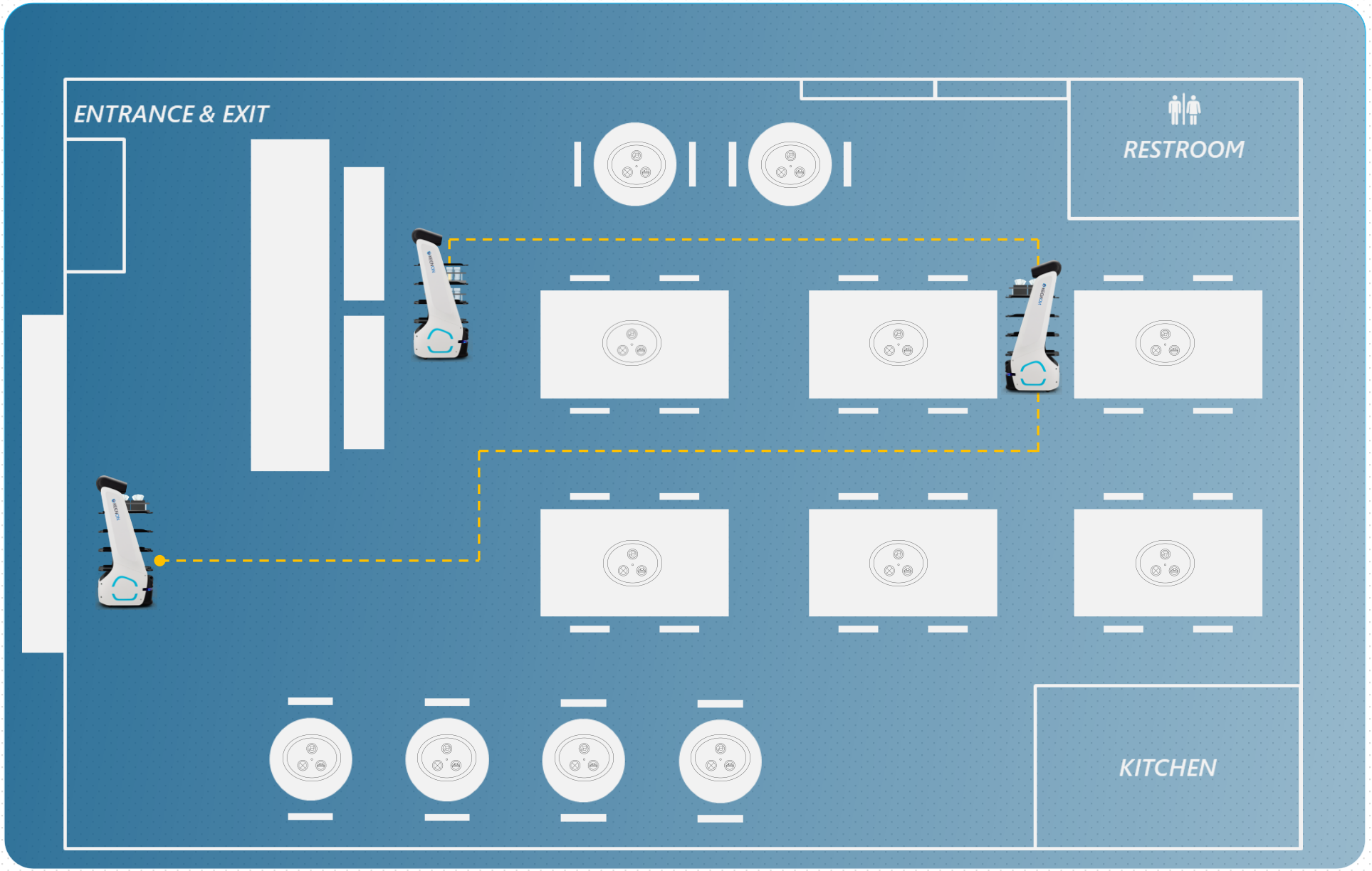
Typical Scenario

Call Different Delivery Service



Typical Scenario *Call Task Queuing*

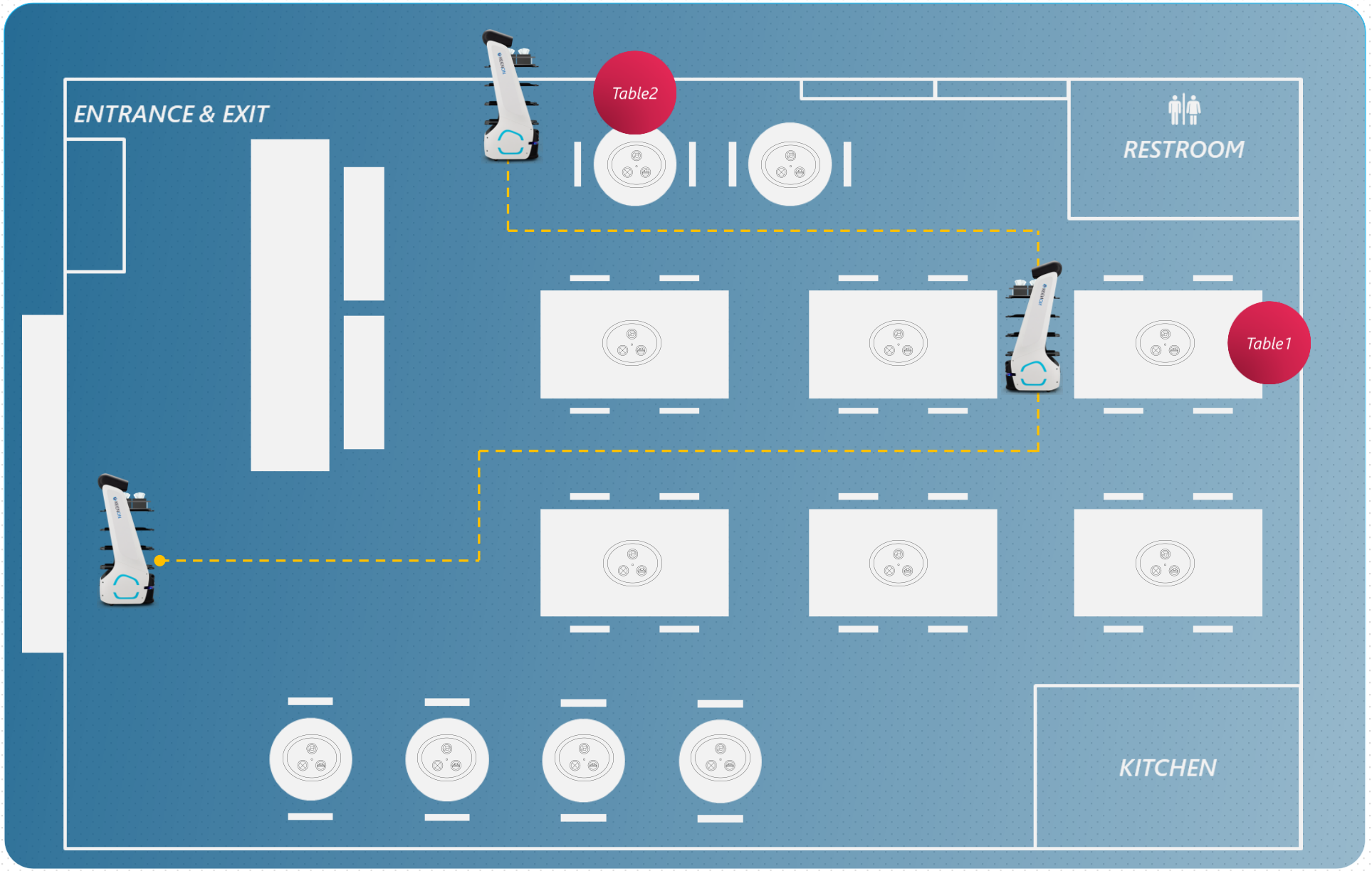


Table 1

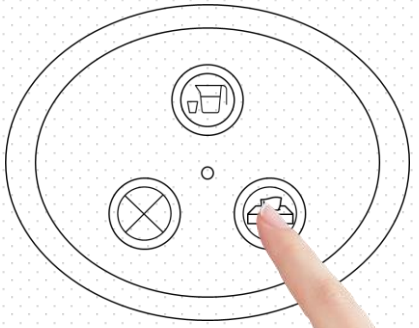
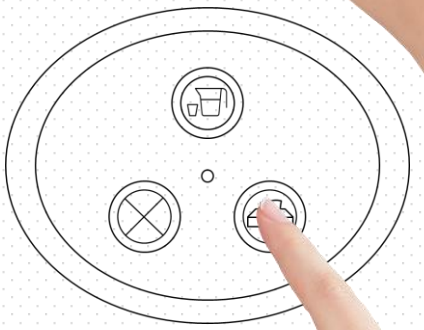


Table 2



Typical Scenario *Dish Collection*

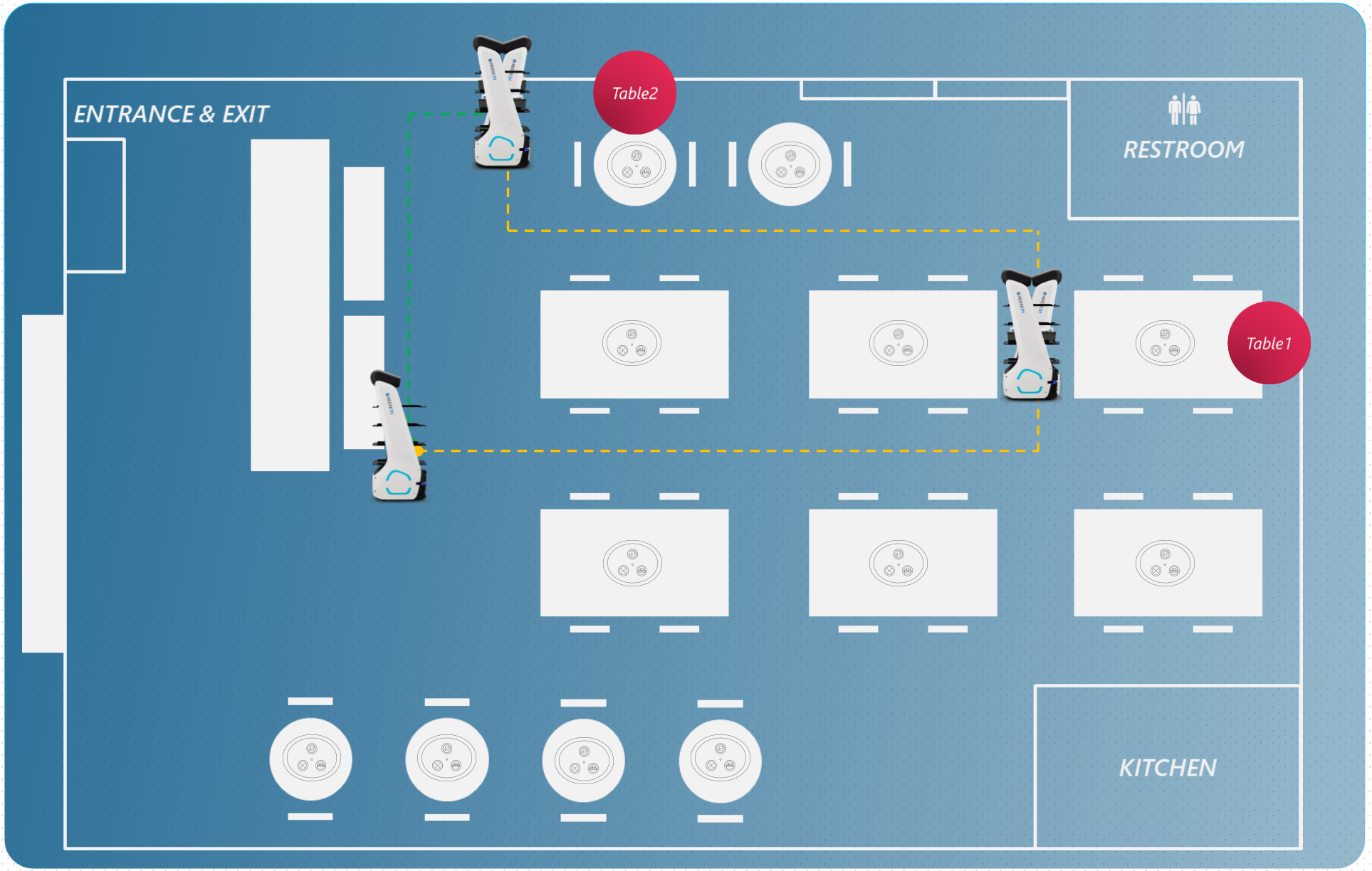
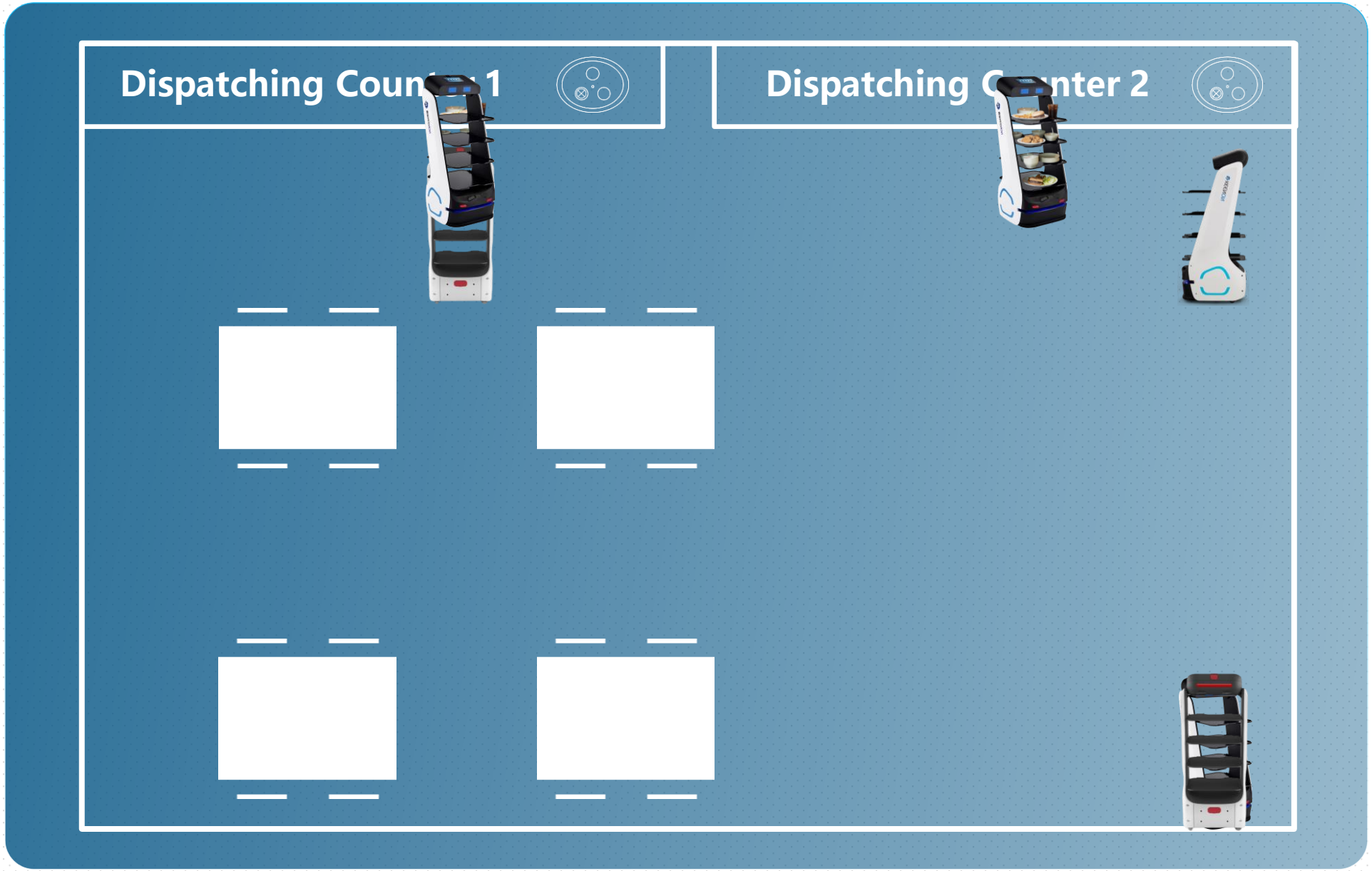


Table 1

Table 2

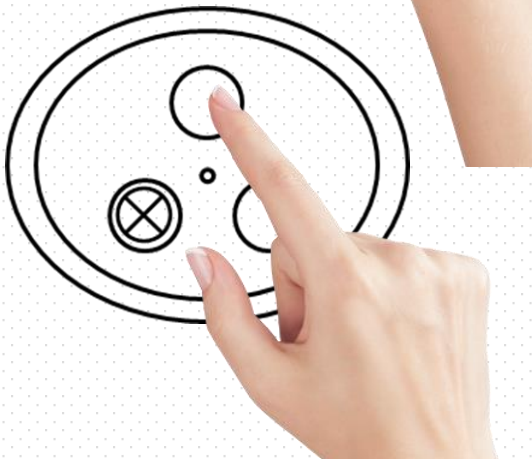
Typical Scenario

Multiple Dispatching Counter



Dispatching Counter 1

Dispatching Counter 2



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Brief Introduction of Deployment

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Preparation

Upgrade the scheduling module firmware, Service System APP, Delivery APP, Robot Installation Assistant APP, and ROS to the specific versions.

Call Button & Point Pairing

Pair the Call Button and the points of the robot, so when you press the button on the Call Button, the robot will go to the right point in its point list.

Configuration on the robot is required.

Call Button & Receiver Pairing

Simply power on the Call Button and the receiver is enough to pair the two.

Bridge & Receiver Pairing

Simply power on the bridge and the receiver is enough to pair the two.

Call Button & Robot Pairing

Pair the button on the Call Button and the specific robot. So you can get the right service from the dedicated robot.

And since there are two buttons on one Call Button, you can have two kinds of robot in one scenario.

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FAQ

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Frequently Asked Questions

1. Q: How many bridges does one single system support?
   A: 5

2. Q: How many Call Button does one bridge support?
   A: 100, the same limit as the receiver, as it is for one single system.

3. Q: How long can we use the Call Button for?
   A: Supposing that the button will be pressed 20 times per day, the Call Button can be used for 150 days(3000-times press) before the battery runs down.

4. Q: If we have a place where there are more Call Buttons and bridges required to build a whole calling system, is it possible?
   A: Please share the detailed requirement and we will try to provide solution.

5. Q: Does the wireless calling solution support label version robot?
   A: No for the time being.

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Thanks