

SCALING AT THE EDGE

Delivering User-
Centric Service
with Smart AMR

NEXAIOT

Your Partner in Smart Manufacturing



Dr. Hoe Seng Ooi

Chief Technology Officer, NexAIoT



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Autonomous Mobile Robot (AMR) for Delivery

A large variety of forklift, conveyor, top-loader, elevator, tray type of AMR;
yet there are no direct solution for fitting “one-size-fits-all” requirement.

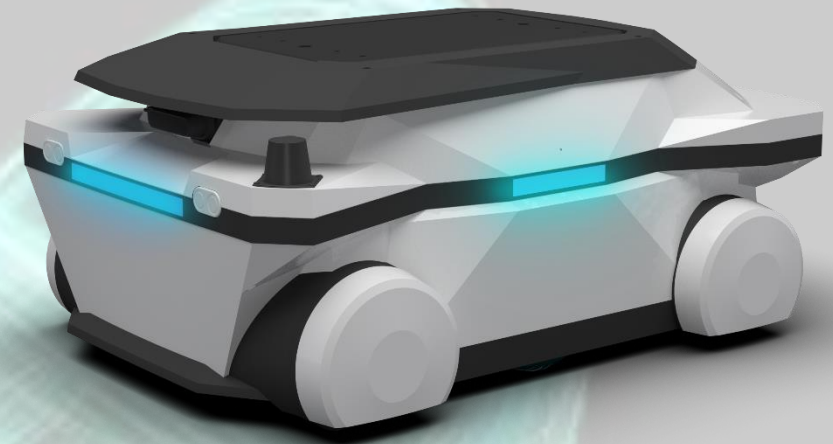


What's NEXT?

Smarter Autonomous Mobile Robot (AMR)

NexMOV

A synergy of competent hardware
and sophisticated software backend



NexMOV The versatile AMR Base Unit with Wireless Charging



Modular Design for Easy
Add-On Top Module



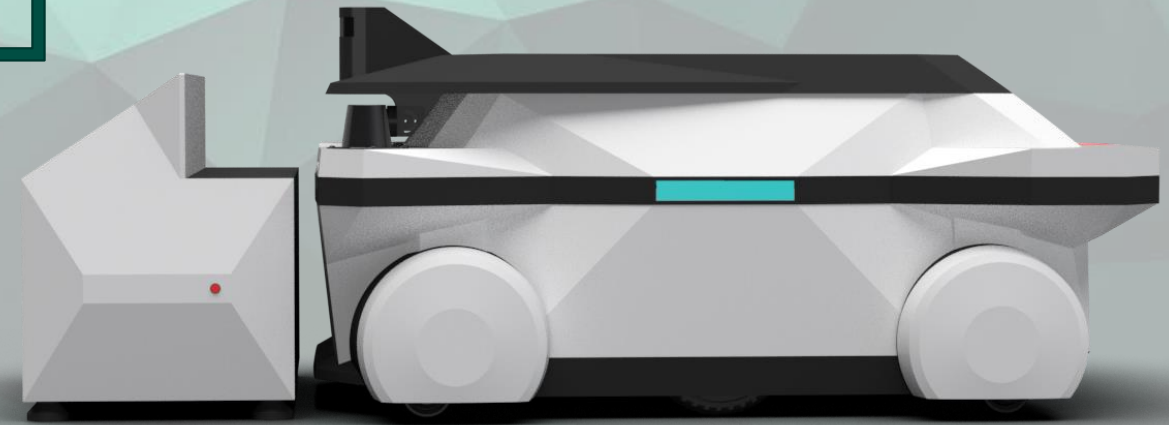
Small Form Factor with
High Payload 200kg



Intelligent Auto-Docking
Wireless Charging



Command Center and Service
Center for Interoperability with OT/IT



Wireless Charger

NexMOV AMR Base Unit

NexMOV Easy Add-On Top Module



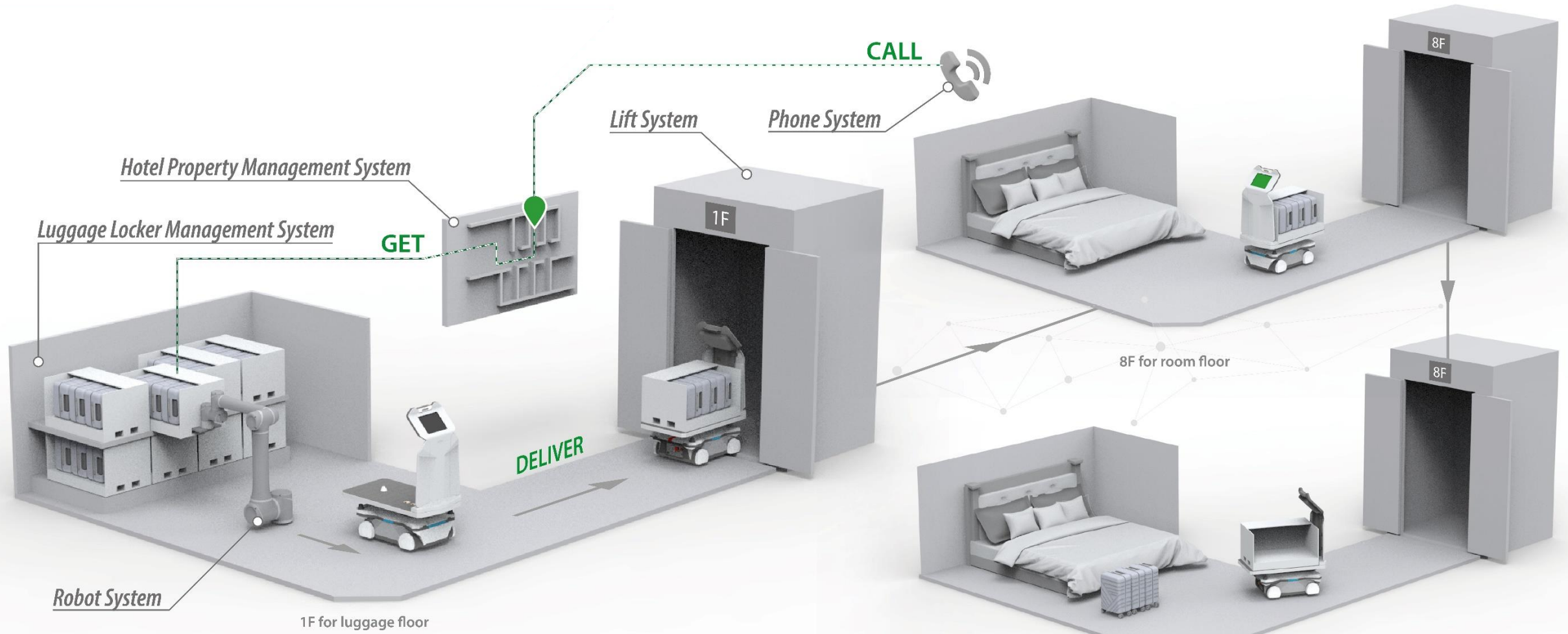
Use Case Kloud Hotel in Taichung (centre of Taiwan)

- Hotel is located nearby the most famous Night Market of Taiwan.
- A robotic arm is used for luggage storage system.

NexMOV Luggage



Use Case Automated Luggage Storage and Delivery



Use Case Automated Luggage Storage and Delivery

Service Center



Command Center



Hotel Property Management System

Luggage Locker Management System

GET

Lift System

Phone System

1

CALL

Hotel Guest Calls Luggage Service to Deliver Luggage from Lobby.

DELIVER

Robot System

1F for luggage floor

8F for room floor

Use Case Automated Luggage Storage and Delivery

Service Center



Phone System Notifies Service Center.

2

Command Center



3

Command Center Initiates Pick-Up Luggage Mission.

CALL



Hotel Property Management System

Luggage Locker Management System

GET

Lift System

Phone System

8F for room floor

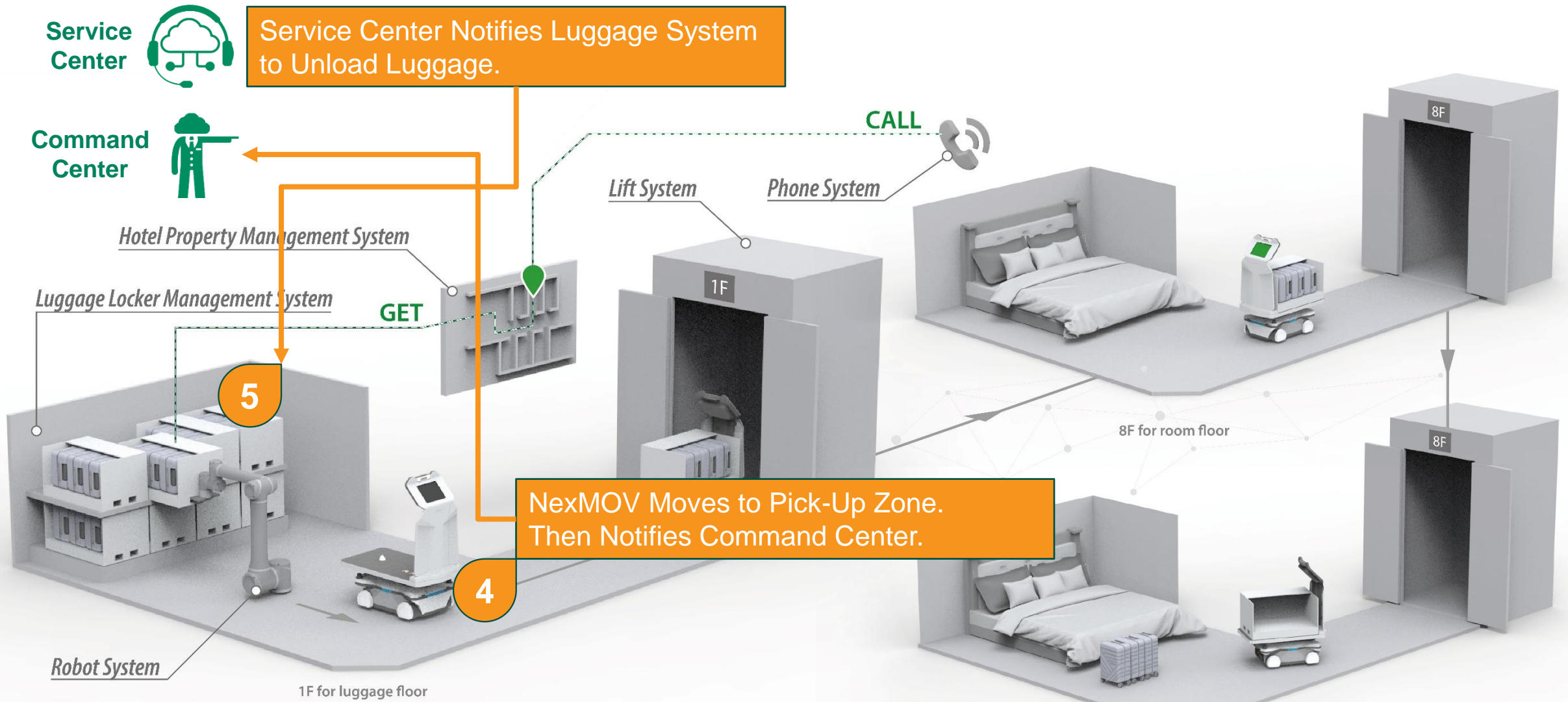
Robot System

1F for luggage floor

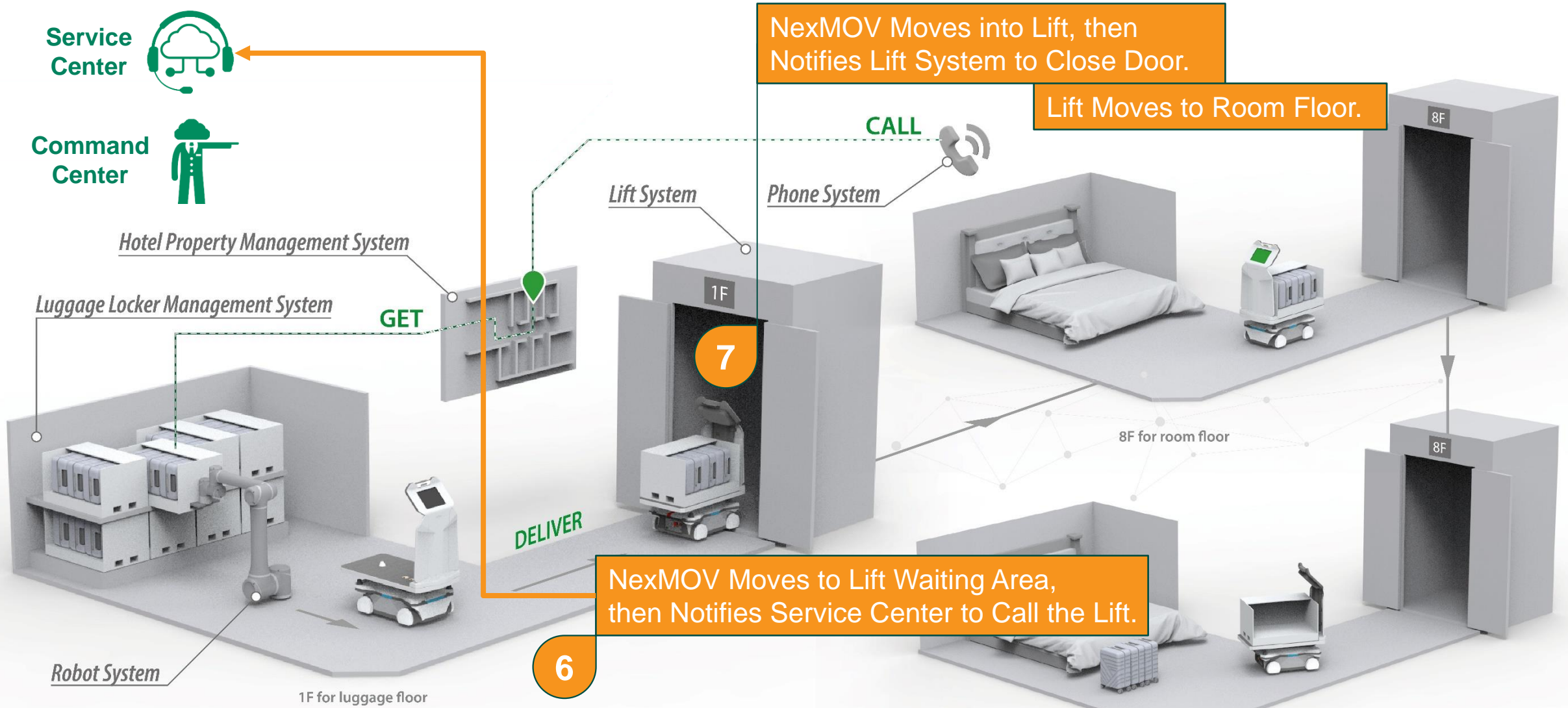
DELIVER



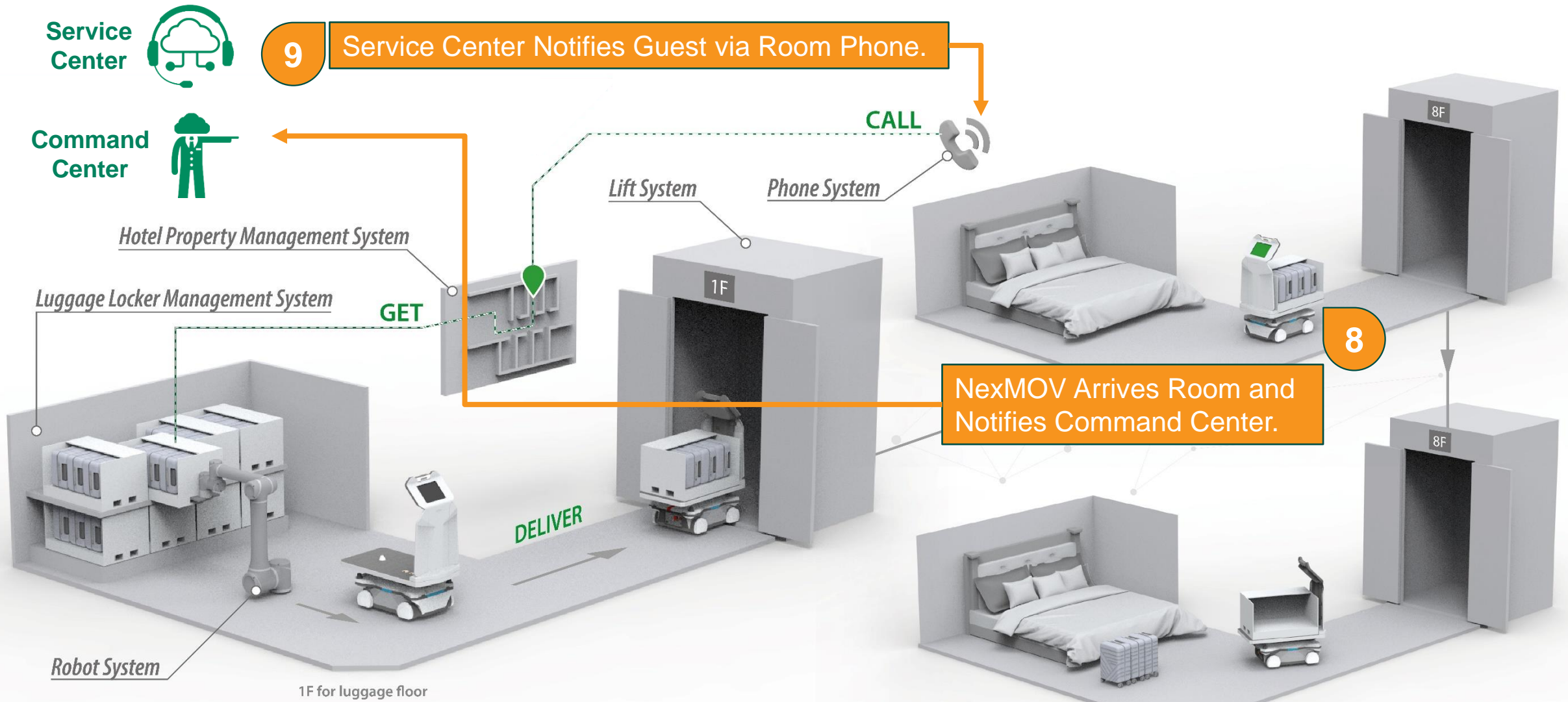
Use Case Automated Luggage Storage and Delivery



Use Case Automated Luggage Storage and Delivery



Use Case Automated Luggage Storage and Delivery



Use Case Automated Luggage Storage and Delivery

Service Center



Command Center



Hotel Property Management System

Luggage Locker Management System

GET

Lift System

Phone System

CALL

8F for room floor

DELIVER

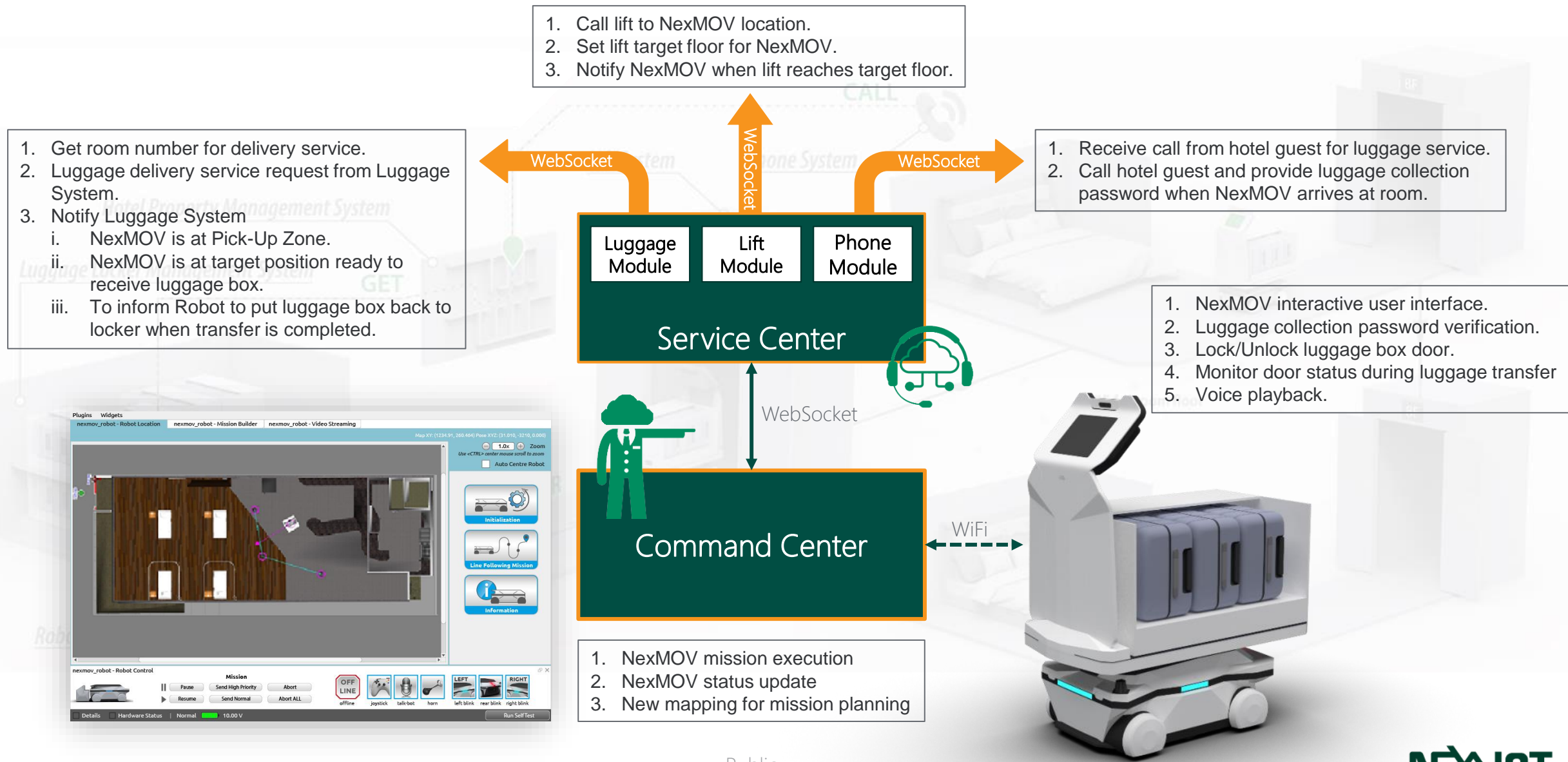
Robot System

1F for luggage floor

Guest Goes to NexMOV and Collects Luggage.

10

Solution – NexMOV System Functionality



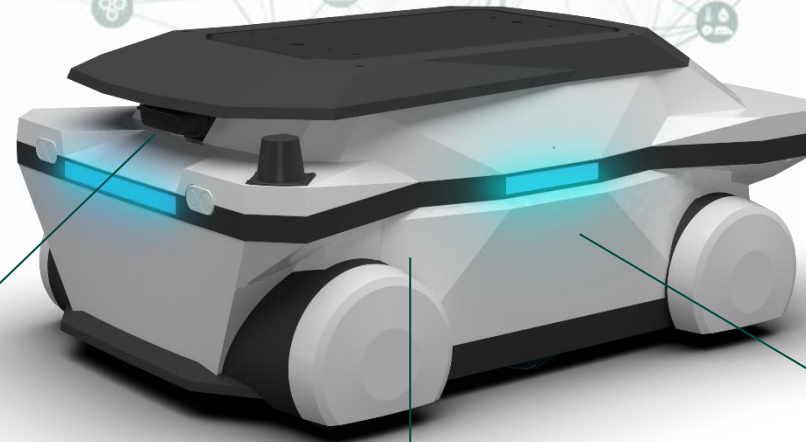
NexMOV



Modular Design for Easy Add-On Top Module to accommodate different use cases



Command Center and Service Center for Interoperability with OT/IT



Intel® RealSense™ camera



Intel® Distribution of OpenVINO™ toolkit



NexAIoT Controller RCB600
Powered by Intel® Core™ i7 processor based industrial PC



Public



Your Partner in Smart Manufacturing

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