

Introduction to ARCS

Aug 2022

RV Technology Company Limited

Agenda



- A. About RV Automation Technology Company Limited
- B. Overview of **Agnostic Robotic Control System** (“ARCS”)
- C. Applications of ARCS
- D. Expected outcome / future of ARCS

ABOUT RV



“Focusing on People-centric Robotic Solution”

Our locations ...



Hong Kong
Head Office



China (Shenzhen)
R&D Center and Workshop

Taiwan
Rep Office and Workshop

Europe (Vilnius)
Sales office , R&D Center and Workshop

Singapore
Sales office and R&D Center

Australia
Sales office

CUSTOMERS FROM DIFFERENT INDUSTRIES



OVERVIEW OF AGNOSTIC ROBOTIC CONTROL SYSTEM (“ARCS”)

WHAT
?

What is “ARCS”?



- A centralized web portal to give you have an efficient way to operate your robots in a single platform.
- A cloud-based system which designed to connect, monitor, control, collaborate and provide insight for operators, supervisors and management to use.

OVERVIEW OF AGNOSTIC ROBOTIC CONTROL SYSTEM (“ARCS”)

WHAT
?

What is “ARCS”?

- Applying the Internet of Robotic Things (IoRT) and able to integrate with 3rd party application, includes but not limited to Building Management System (“BMS”), Hospital Management System (“HMS”) and Enterprise Resource Planning (“ERP”)



OVERVIEW OF AGNOSTIC ROBOTIC CONTROL SYSTEM (“ARCS”)

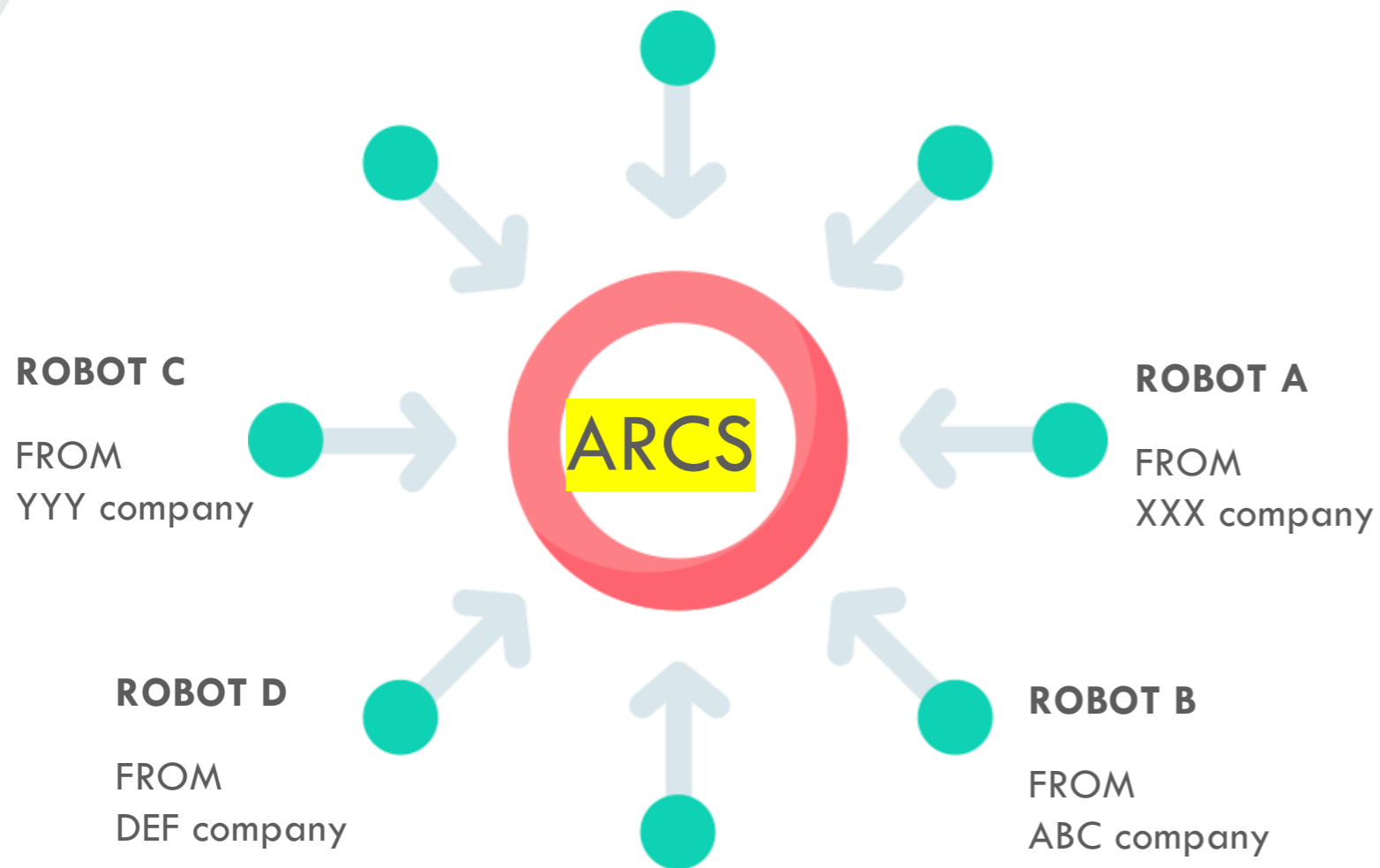


Why “ARCS” is so important to us?

In the wake of the **smart city's** development, many businesses have purchased robots but in **different brands** and functions.



OVERVIEW OF AGNOSTIC ROBOTIC CONTROL SYSTEM (“ARCS”)



ARCS provides a centralized platform that users can monitor
Different robots in a SINGLE platform

ARCS can integrate with:

- **Robot**
- **Building and Facilities**
- **People**
- **System**

OVERVIEW OF AGNOSTIC ROBOTIC CONTROL SYSTEM (“ARCS”)

Key Functions of ARCS

1

Monitor

2

Control

3

Management

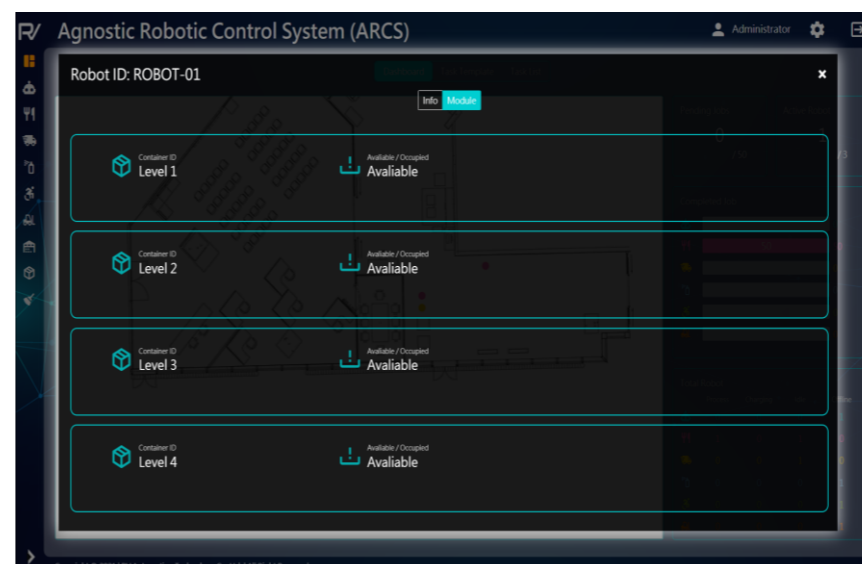
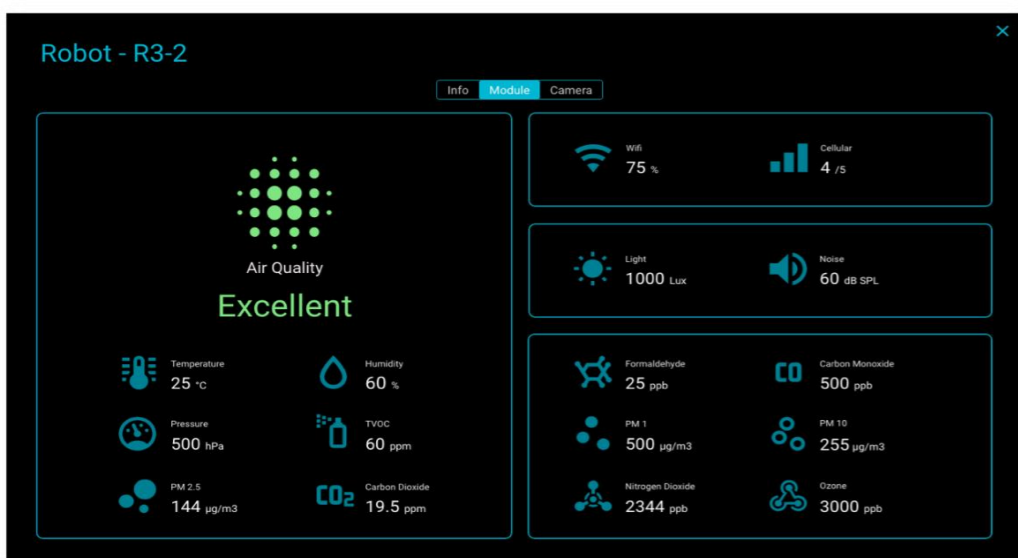
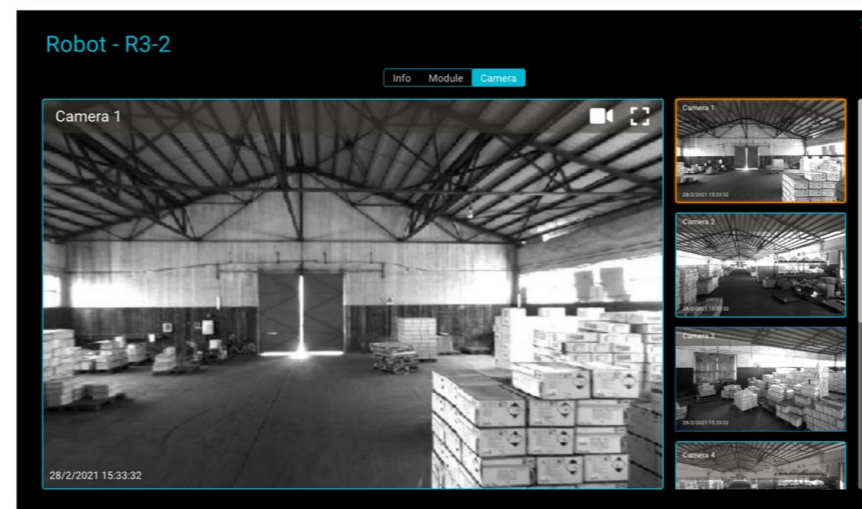
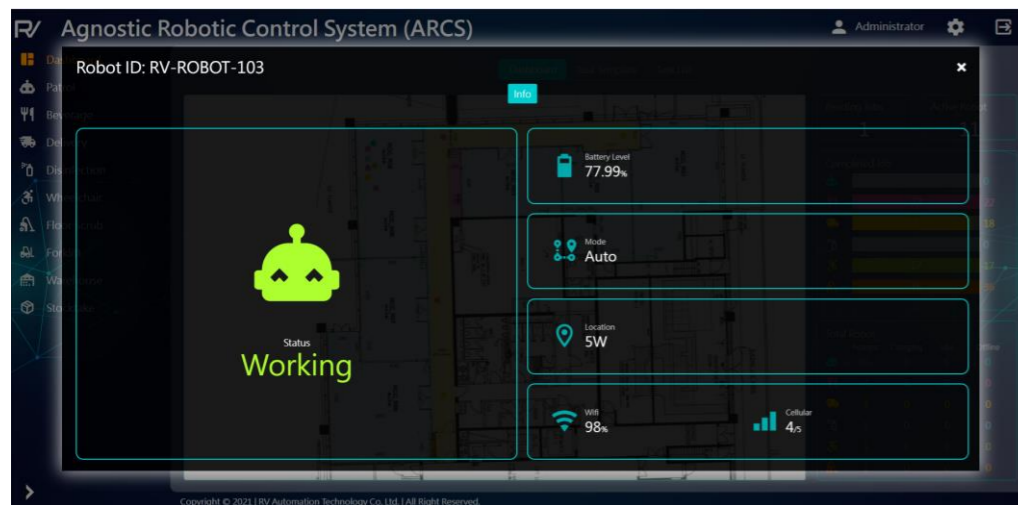
4

Data
Analysis



APPLICATION OF AGNOSTIC ROBOTIC CONTROL SYSTEM (“ARCS”)

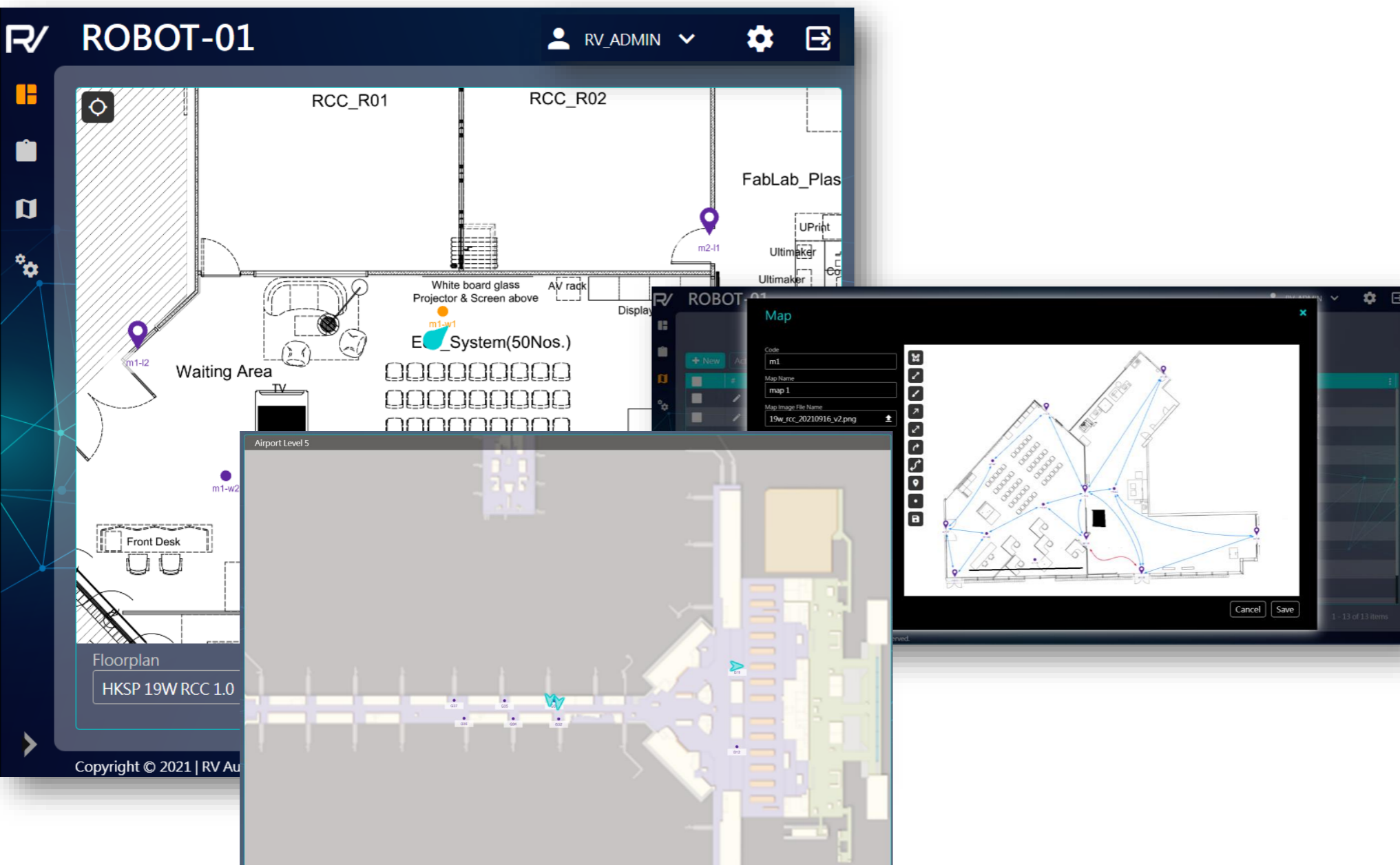
Features of ARCS



Check the
status of
robot in
real-time

APPLICATION OF AGNOSTIC ROBOTIC CONTROL SYSTEM (“ARCS”)

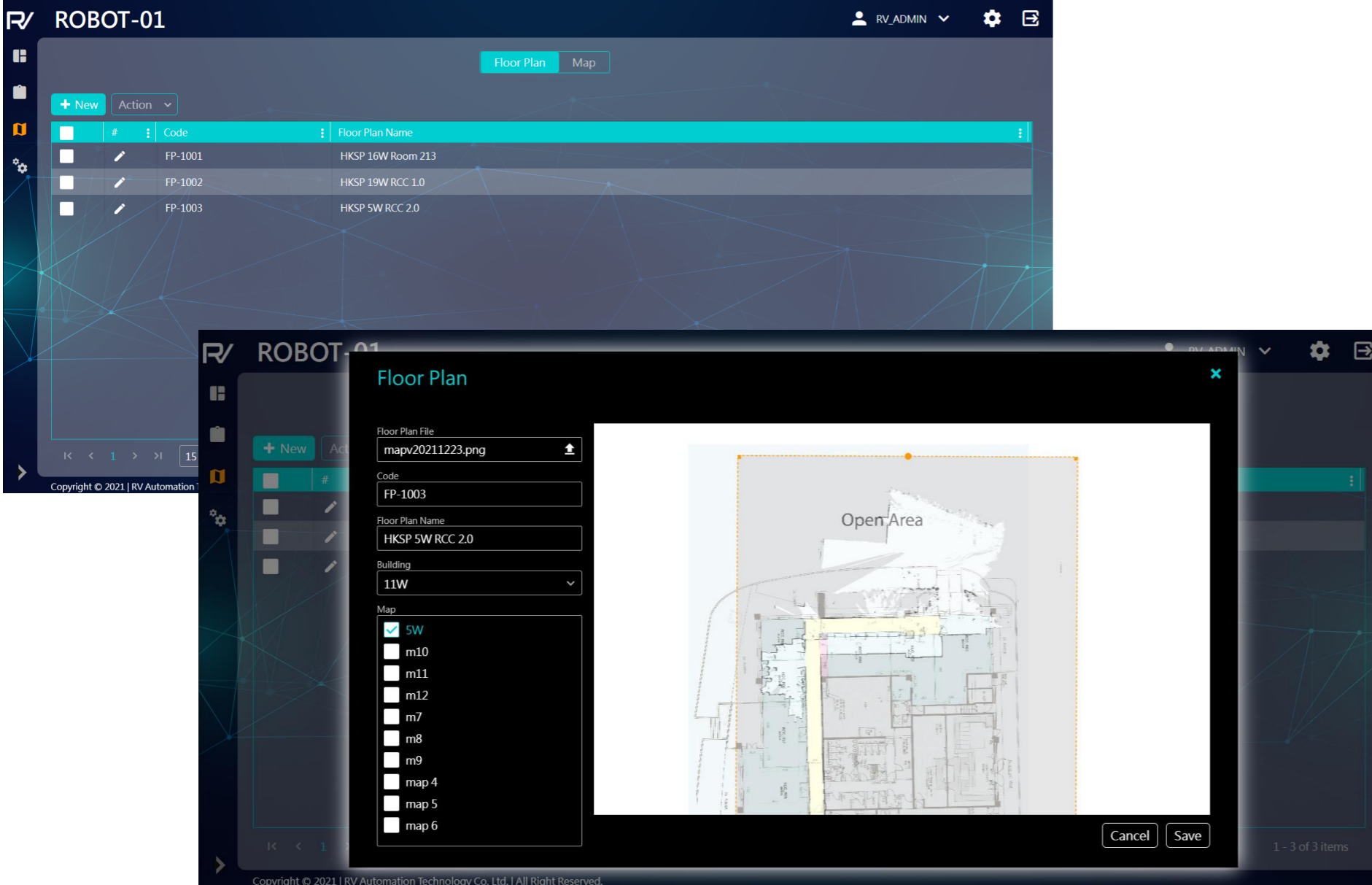
Features of ARCS



Positioning
and
Real-time
Tracking

APPLICATION OF AGNOSTIC ROBOTIC CONTROL SYSTEM (“ARCS”)

Features of ARCS



The screenshot displays the ARCS interface for a robot named ROBOT-01. The top bar shows the user as RV_ADMIN. The main interface is divided into two parts: a list of floor plans and a detailed editor for a selected floor plan.

#	Code	Floor Plan Name
FP-1001	HKSP 16W Room 213	
FP-1002	HKSP 19W RCC 1.0	
FP-1003	HKSP 5W RCC 2.0	

The detailed editor for floor plan FP-1003 shows the following fields:

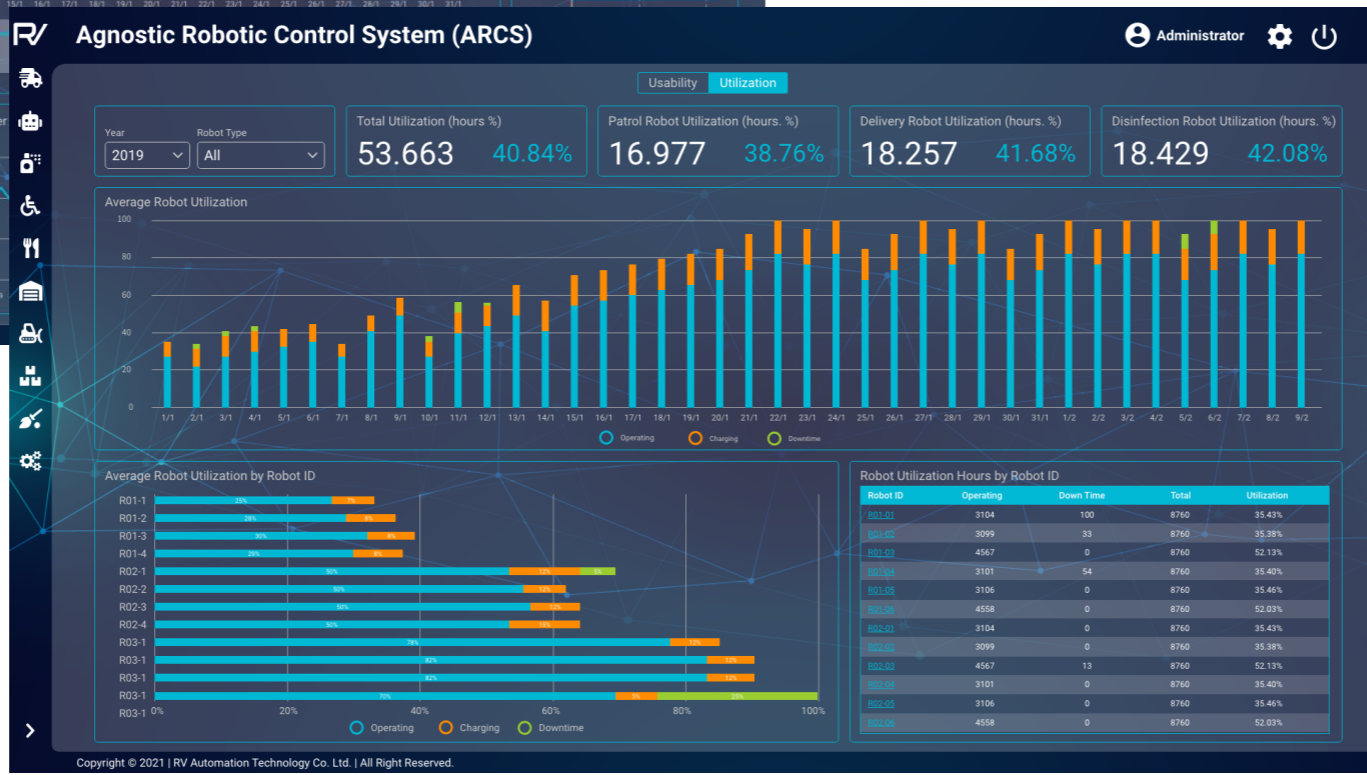
- Floor Plan File: mapv20211223.png
- Code: FP-1003
- Floor Plan Name: HKSP 5W RCC 2.0
- Building: 11W
- Map: SW, m10, m11, m12, m7, m8, m9, map 4, map 5, map 6

The editor also features a central map view with a highlighted 'Open Area' and 'Cancel'/'Save' buttons at the bottom.

Mapping for
multi-
building
level

APPLICATION OF AGNOSTIC ROBOTIC CONTROL SYSTEM (“ARCS”)

Features of ARCS



Data Analysis for
Forecasting

EXPECTED OUTCOME / FUTURE of ARCS

ARCS is a software infrastructure which is expected to become a must for robotic operations in the future.

ARCS will enable interoperability of different service robots and building facilities (from different vendors) deployed in solutions of any sizes in smart city scenarios, which being a vital role in the infrastructure development.

Looking forward, ARCS is designed with the the idea in mind to solve complex problems related to integration of robotic hardware and 3rd party systems. More importantly, The AI analysis can generate the accurate prediction when applied to real-world problems in order to improve the entire operation and make the best business decision.

THANK YOU!

