



# **Foresight SMART Inventory System**

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*Thank you for considering Foresight for your RFID total solution needs. I'm glad we had the opportunity to connect so that my team and I could get a clear understanding of your expectations.*

*We specialize in working with companies in the Asia-Pacific area, and got started when a client asked us to come up with a solution back in 2017. It was a huge success, and the manufacturer was able to increase efficiency and reduce their overall cost within three months.*

*Unlike our competition, we focus on a comprehensive approach to total solutions by looking at your needs, overall process, and best practices and methodology on how to design an authentic solution that resonates directly with your company.*

*By using total solution strategies and implementing procedures based on the results of extensive analysis, a study of trends, and the application of specifics unique to your clients we are confident in our ability to deliver effective results.*

*We believe our proposal provides a complete total solution strategy that will culminate in highly successful results for your business.*

*If you have any questions, please don't hesitate to get in touch. My contact information is below.*

*Thank you,*

*Luis M. Avila*

[luis@foresight-systech.com](mailto:luis@foresight-systech.com)

## Recommendations

**Unique ID** is applied to each item. Foresight Information System will provide complete process management functions such as filing, sorting, storing, inventory, delivery and tracking.



WireTx - Rubber Tag  
UHF RFID Technology

Length - Customizable  
Waterproof  
Durable  
Harsh environment durability.  
Excellent long reading distance.



Ultra Power Antenna

902.00 MHz ~ 928.0 MHz  
10 W  
-25? --75?  
IP 54  
25.9 x 25.9 x 3 cm

4-in-1 Multiport  
RFID Reader

902.00 MHz ~ 928.0 MHz

EPCglobal  
UHFC Class1 Gen2/  
ISO18000-6C  
RS232/RS232 LAN



UHF Handheld Reader

Accurate  
Rugged and light weight  
Integrated long range antenna  
IP 54



Intelligent  
Management System

Real-time monitoring  
and tracking  
inventory data.



Web & APP

Cloud data  
information  
synchronization



## Improve Workflow Efficiency Reduce Labor Cost and Manage Risk

The professional logistic industries process a large number of items from different places every day. Each items needs to be processed, dated, boxed, stored, distributed, etc. While warehousing is an easy task however, managing the process and track the handling of each item such as tracking the manufacturing and expiration date, and the quantity of products are a great challenge.

Utilizing Foresight Information System, the process management in the pallets process facility will become more transparent, which not only effectively improve work efficiency, but also greatly reduces labor costs and management risks.



Preliminary Specification	
<b>Dimension:</b>	
1. Mechanical Dimension:	144 ± 3 mm
2. Thickness:	IC: 1.5 ± 0.5 mm
<b>Material:</b>	
1. Stainless wire antenna and module with high temperature UV glue.	
2. Color:	NA
3. Chip type:	Impinj Monza R6-P (DFN module)
<b>Temperature:</b>	
1. Operating Temp:	-25 °C ~ 80 °C
2. Peak Storage Temp:	-25 °C ~ 200 °C
<b>Electrical:</b>	
1. Operating Frequency:	860-960 MHz
2. ISO/IEC:	18000-6C
<b>Reliability</b>	
Enclosure rating	IP rating [67]

Preliminary Specification	
<b>Dimension:</b>	
1. Mechanical Dimension:	140 ± 3 mm
2. Thickness:	IC: 1 +0.5 / -0.2 mm
<b>Material:</b>	
1. Wire antenna and module with high temperature UV glue.	
2. Color:	NA
3. Chip type:	Impinj Monza R6-P (DFN module)
4. Wire type:	Heavy Duty wire
<b>Temperature:</b>	
1. Operating Temp:	-25 °C ~ 80 °C
2. Peak Storage Temp:	-25 °C ~ 200 °C
<b>Electrical:</b>	
1. Operating Frequency:	860-960 MHz
2. ISO/IEC:	18000-6C
<b>Reliability</b>	
Enclosure rating	IP rating [67]

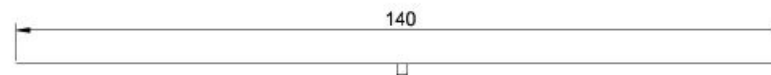
### Engineering Drawing:



Unit: mm

※ Length can be customized

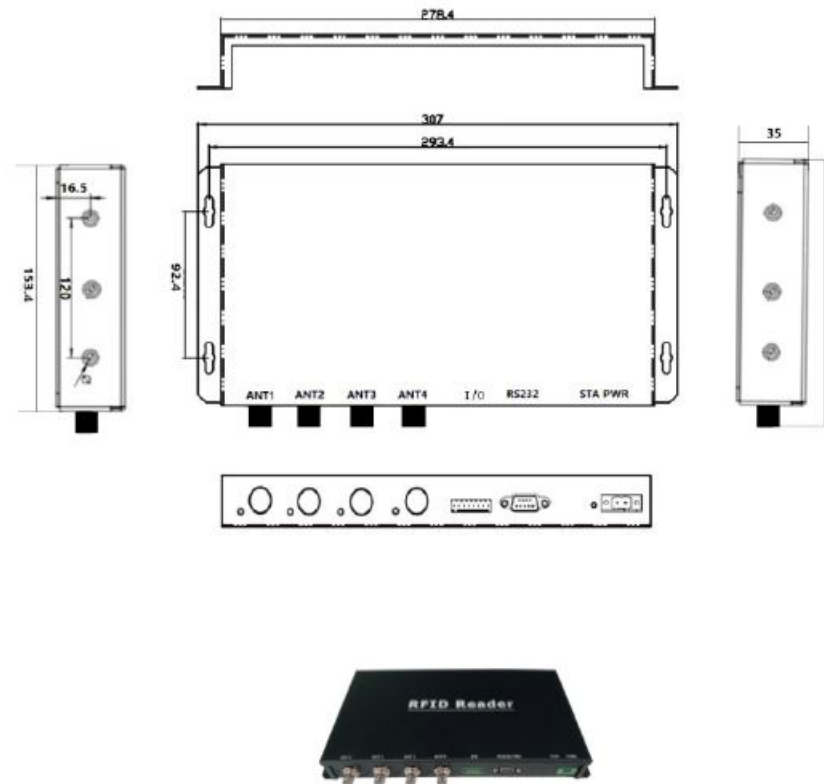
### Engineering Drawing:



Unit: mm

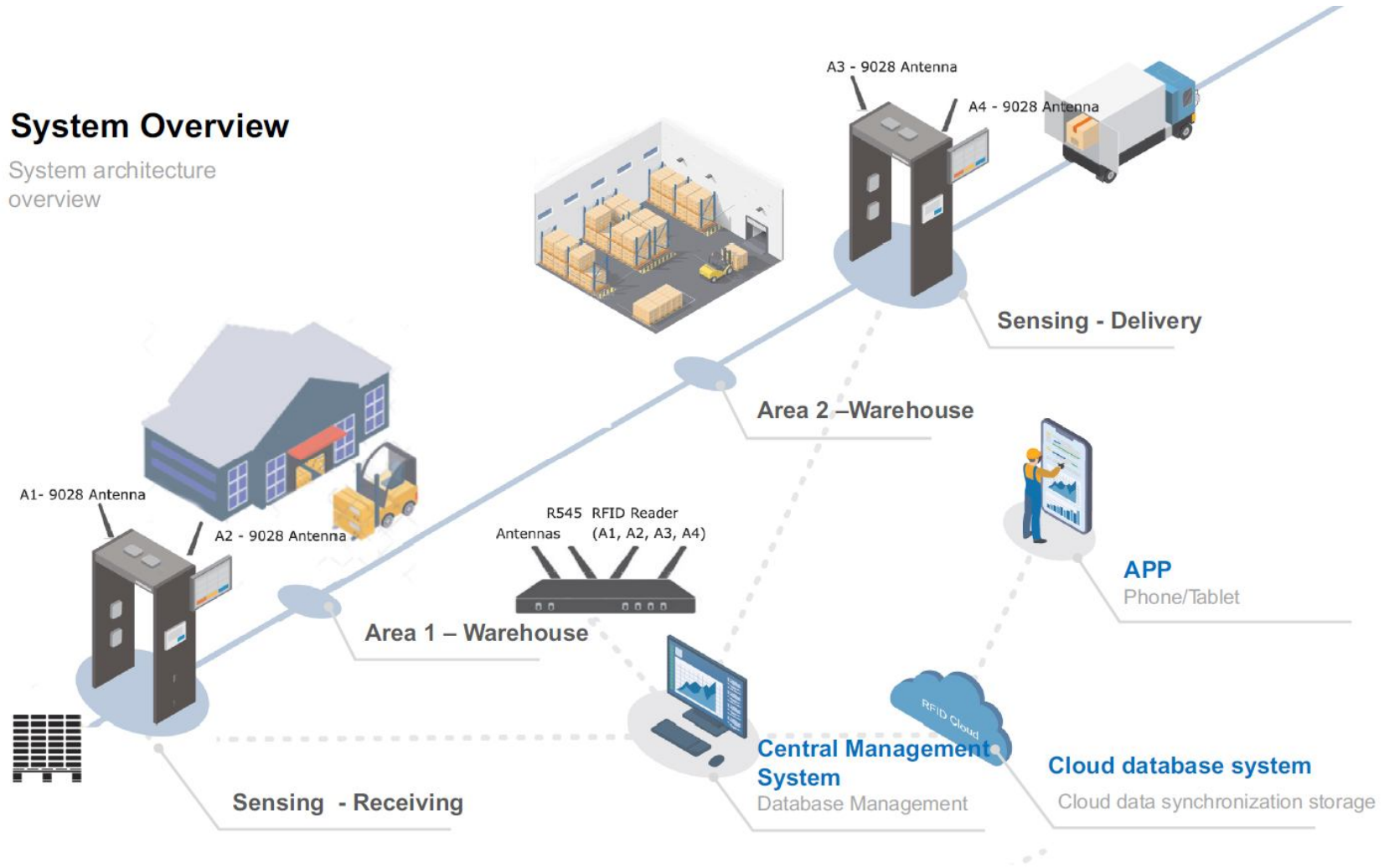
※ Length can be customized

# RFID Reader



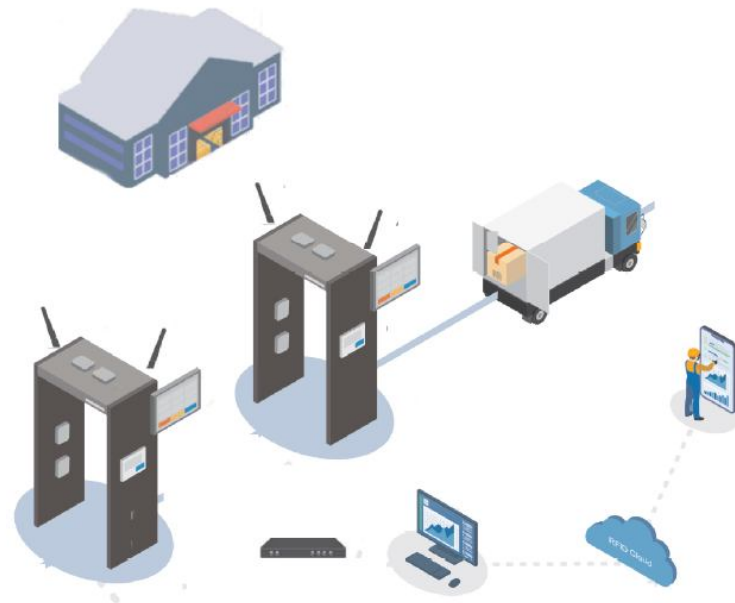
# System Overview

System architecture overview



# Receiving & Delivery

Warehouse Entry & Exit Point Overview



## Equipments

-  4-in-1 Multi-Port Fixed RFID Reader x 1
-  Ultra Range Antenna x 4  
Entrance x 2, Exit x 2
-  Handheld RFID Reader -  
Quantity to be determined



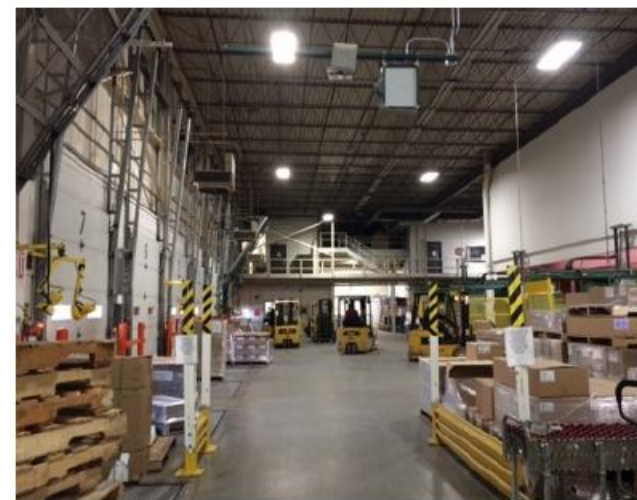


# Warehouse Zone

Storage Zone Overview

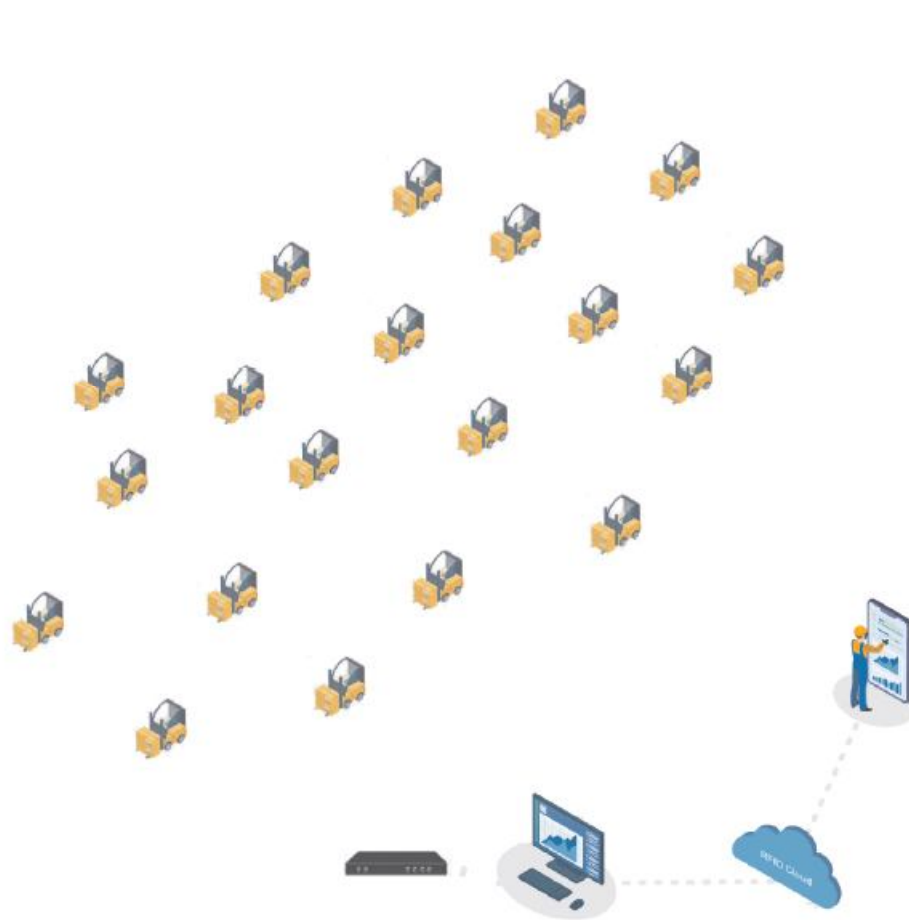


## Equipments



# Forklift - RFID Ready

Reader Ready (optional)



## Equipments



RFID Reader  
x 120

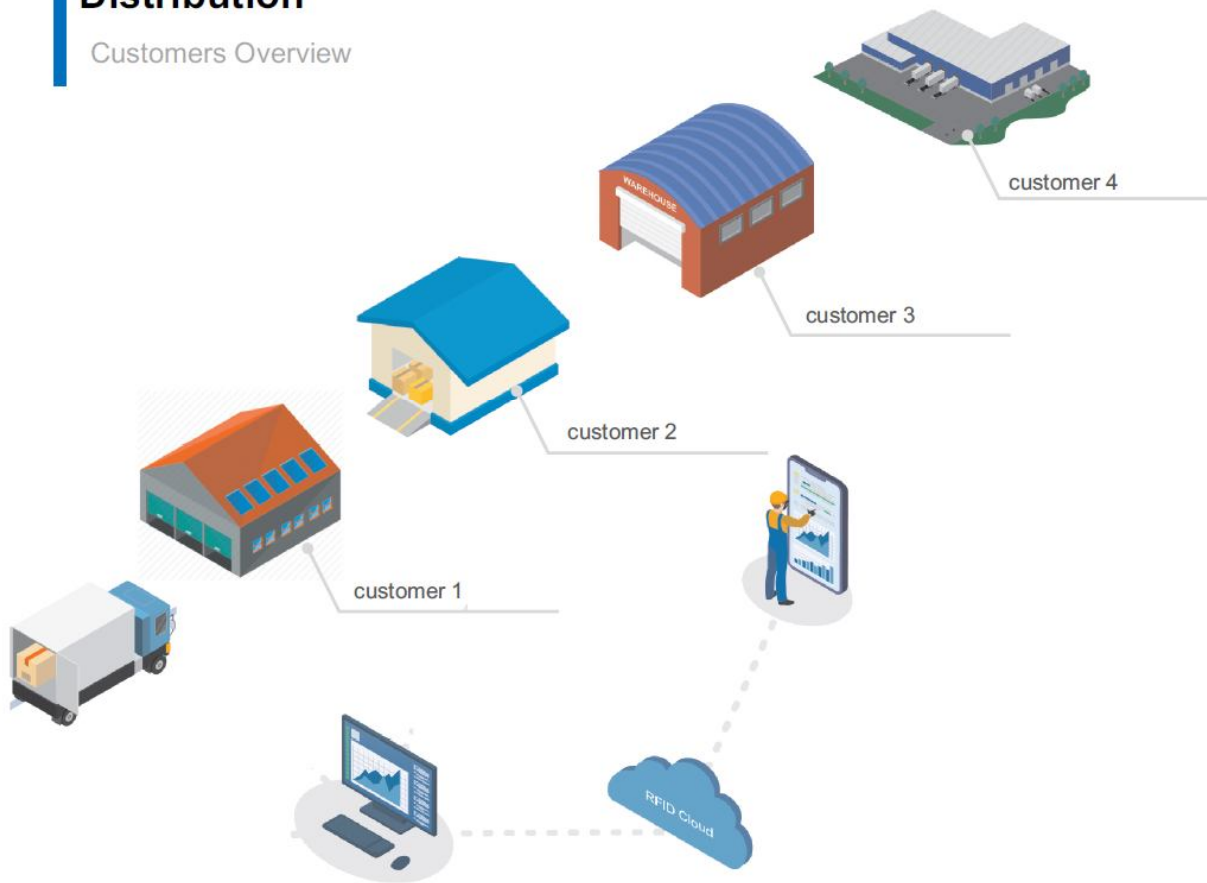


Handheld Reader  
x 120

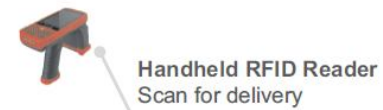


# Distribution

Customers Overview

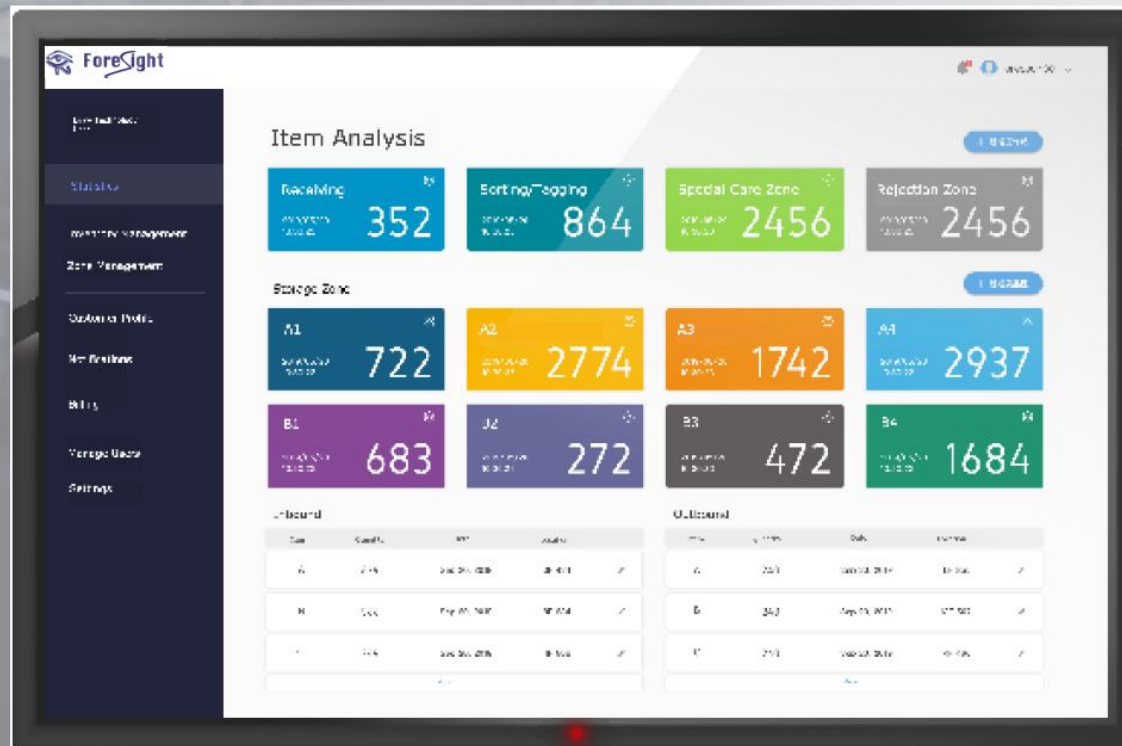


## Equipments



Handheld reader placed in each delivery truck

Fixed Location RFID Reader placed at each location



## Central Management System

### Systems Management

Responsible for database management and network connection settings.

- Statistical data
- Product Management
- Customer Management
- Workstations
- Zone Management
- Account Management
- Information Notification
- Database Setting
- Systems Management

The screenshot shows the ForeSight software interface. At the top left is the 'ForeSight' logo. The main area is titled 'Receiving' with a large blue box containing the number '3324'. Below this, there is a list of data points including 'MODIFICATION', 'TYPE', 'DATE', 'USER', 'CODE', and 'ACTION'. To the right, there is a table with columns for 'No.', 'TYPE', 'TYPE', 'DATE', and 'TIME'. At the bottom, there are two buttons: a blue one labeled '完成' (Complete) and a red one labeled '清除' (Clear).

No.	TYPE	TYPE	DATE	TIME
1	1001	1001	2019/03/20	10:00:00
2	1002	1002	2019/03/20	10:00:00
3	1003	1003	2019/03/20	10:00:00
4	1004	1004	2019/03/20	10:00:00
5	1005	1005	2019/03/20	10:00:00
6	1006	1006	2019/03/20	10:00:00
7	1007	1007	2019/03/20	10:00:00
8	1008	1008	2019/03/20	10:00:00
9	1009	1009	2019/03/20	10:00:00
10	1010	1010	2019/03/20	10:00:00

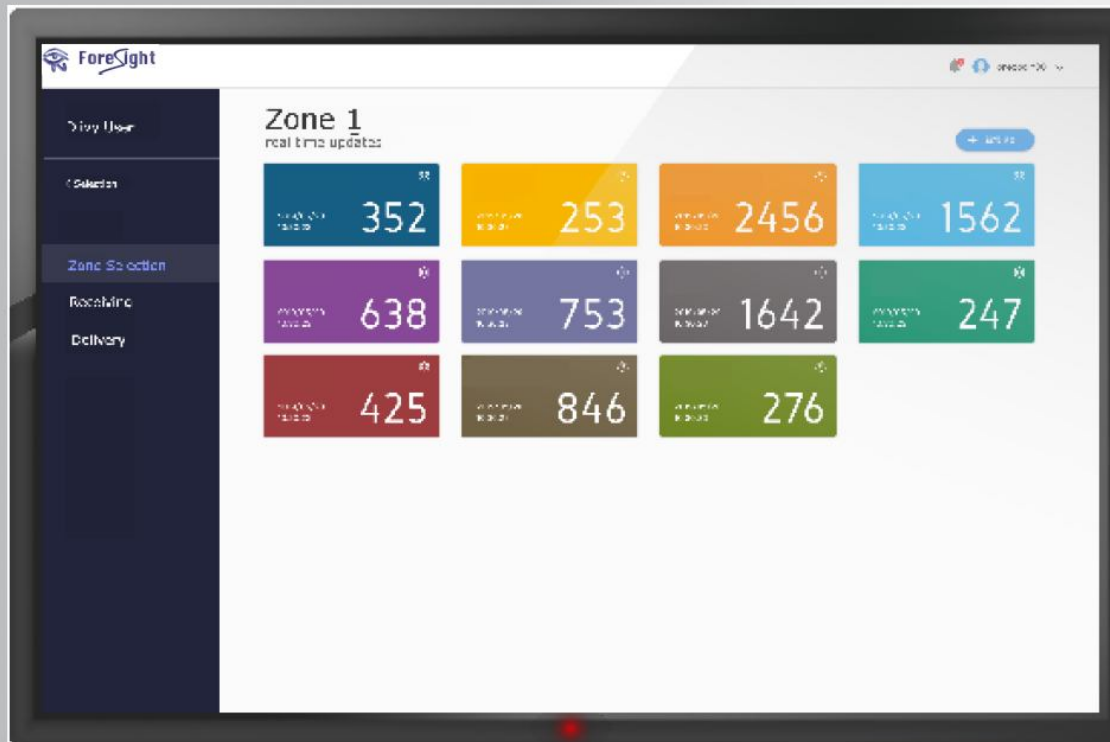
## Reader Zone

### Reader Spot

The host computer installed on the Reader device can be installed with workstation software. This software can detect and link the Reader device, display the product scan data and synchronize the data to the central control system.

- Linking Reader
- Product Data
- Product Control
- Product Information



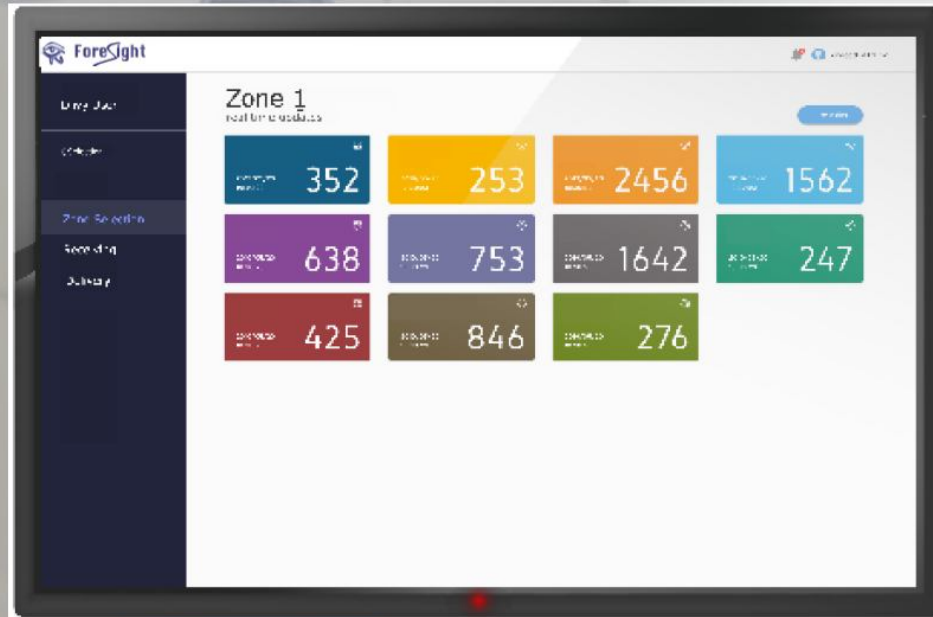


## Product Zone

### Item Space

Through the central control system or workstation software, you can check the inventory data and inventory records of each area, and link mobile inventory equipment.

- Linking Reader
- Product Data
- Product Control
- Product Information



## Mobile APP

Mobile Application

Mobile Application can operate under "Local Mode" or "Cloud Mode" to support mobile phones and tablet devices. Providing instant data access for managers.

- Statistical data
- Product Information
- Customer Information
- Zone Information
- Message Notification



## Smart Inventory System

### Products Tracking Process

### Enhance Value in competitive marketplace



#### **Improve process efficiency and reduce labor costs**

Keep track of the quantity of inventory, and can count the quantity in real time, reducing the repetitive consumption of manpower.



#### **Effectively reduce management risk**

Completely track production, logistics, warehousing, sales, reimbursement, return procedures, clearly record the operation of management personnel, and reduce the occurrence of human error.



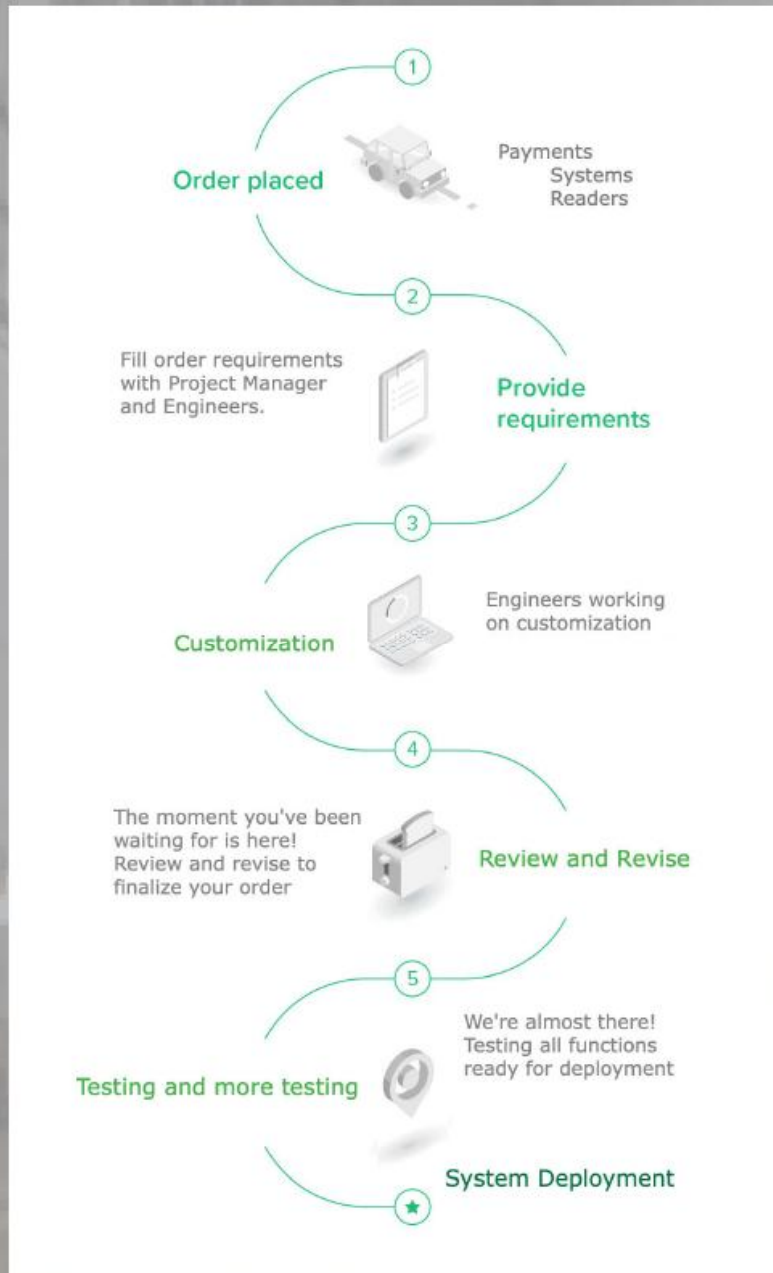
#### **Customized proprietary system**

Systems flexibility allows linking of all kinds of reader equipments. Data exchange between upstream and downstream manufacturers, and build customized system processes according to the needs of different manufacturers to accelerate industrial transformation.




#### **Tracking inventory in all directions**

Through cloud synchronization and mobile APP applications, you can keep track of inventory data and statistical analysis, reduce inventory management risks, and effectively improve workflow efficiency.



## Business Intelligent System Systems Management

- Business Intelligent Cloud System
- Cloud Server
- Cloud Database
- Web Application
- iOS App – On the phone for mobile manage
- Android App – On the phone for mobile mar
- Android App – On RFID Reader
- 18 Months Best In Class Service
- Standard customization



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**CONTACT US**