

COMPANY PROFILE



PROFILE

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Name	:	PT. HALOTEC INDONESIA
Address	:	Jl. Danau Sentani No. 7, Kel. Sei Agul, Medan Barat
		Kota Medan - 20117
Akta Notaris	:	No. 4, Tanggal 03 Februari 2003
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COMPANY SHAREHOLDERS





IT SOLUTION FOR BETTER BUSINESS

PT. Halotec is joint venture company that provides customized consulting and developing service for IT. The company's product portfolio is made up several goals oriented and customer specific systems.

Our philosophy is to provide innovative solutions to technical problems and management objective by becoming invoved with clients in the early stages of problem difinition and conceptualization. This early involvement allows our consultant to better understand our client's need and provide solutions that meet these needs without always having detailed specifications for software solutions (or hardware).

More clients come to us with concepts and ideas, which we help transform into detailed design specifications and product (by using software designer tools). The success of this approach is clearly shown by the long term relationships we have developed and maintained with many of our clients and partners.

WHAT WE DO

With a growing portfolio of solutions and services we support clients around the world:

- · Create prototypes, pilots and Proof-of-Concepts;
- Develop and launch new products;
- Implement upgrades of solutions;
- Deliver a wide range of professional implementation and support services.

Our core values guide us in how we create, respect and deliver solutions and services on our commitments:

- Focus on client value;
- Commitment to quality and measurable results;
- Trusted partnership with our clients and partners;
- Respect and Integrity.



CORE COMPETENCIES



Mobile Applications

Mobile technology and devices are being used more and more widely every day and businesses are taking advantage of these platforms to reach their customers and improve their business operations.

Halotec Indonesia designs, develops and delivers mobile apps across all the major platforms, including iOS and Android. Our mobile app development services include:

- Business, needs and requirements analysis
- Wire-framing and custom design architecture
- Project management and a professional development process



Internet of Things (IoT) & Industrial Automation

The Internet of Things (IoT) has dramatically increased the volume and variety of data being produced, opening the door to a wave of new possibilities. Companies can use that data to grow revenue, increase efficiency, enhance customer experience, decrease downtime, reduce costs, and in countless other ways. The key is being able to unlock data from it source, process it to make is usable, and programmatically and securely move the right data to the right application to put it to work.

Our IoT products and solutions allow you to connect your IoT devices, secure IoT connectivity, extract and compute with IoT data management on one platform.



Business Process Automation (BPA)

Automation in manufacturing improves quality and resource utilisation. Digital workflows bring similar benefits from automation to business processes, delivering efficiency gains and improved transparency.

Halotec Indonesia helps businesses gain consistent, error-free operations with state-of-the-art digitization and workflow handling that create robust, highly scalable business processes.

Our portfolio of BPA products include solutions from leading partners as well as in-house workflow automation solutions, enabling us to deliver best-in-class BPA services that suit different organisations.



CORE COMPETENCIES

We focus all our experience and effort on creating innovative products. Below is a summary of our products and services, that we continue to develop every day in order to offer the best possible solutions, both for today and for the future.



MACHINE TO MACHINE (M2M) & INTERNET OF THINGS (IOT)

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BUSINESS PROCESS AUTOMATION (BPA) MACHINE TO MACHINE (M2M) & INTERNET OF THINGS (IOT)

PRODUCT PORTFOLIO





Combined Terminal Tractor (CTT) and Docking System.

CTT is an automatic truck used to transport containers to and from ships. CTT has sensors that can pick up signals quickly without a driver. The CTT truck chassis is hydraulic, making it easy to place the containers on the docking system. The docking system is a new facility at the port. Docking System is required to integrate Automatic CTT detection and identification system with Terminal Operating System (TOS). Implementing CTT Docking System in docking facilities make it easier and faster to place containers in the stacking yard.

Halotec Indonesia's docking system has been successfully built and implemented at Terminal Teluk Lamong (TTL).



1. OBSTACLE SENSOR ON THE DOCKING There will be obstacle sensor put on the docking.

2. UNLOADING PROCESS

The CTT Operator get request to unload the containers on block 5. The unloading request will shown on the VMT screen. The CTT operator then maneuvered into docking block 5 using the Wire Guidance System mode. This Wire Guidance System guide the CTT Operator to get into optimal height position. The CTT operator sees CTT dashboard screen to make sure it is in a perfect position. If the screen shows you this position, the operator can put down the container (Put Down Container).

EXIT & CONFIRM PROCESS

In this system the CTT operator does not need to do manual confirmation. The sensor will ON when it detects an object on the docking. It indicates that Put Down Container process is done. When the CTT is getting out from docking area and hit the ground loop 1 and ground loop 2, the system will send confirmation to TOS.

3. LOADING PROCESS

The CTT Operator get request to load the containers on block 5. The loading request will shown on the VMT screen. The CTT operator then maneuvered into docking block 5 using the Wire Guidance System mode. This Wire Guidance System guide the CTT Operator to get into optimal height position. The CTT operator sees CTT dashboard screen to make sure it is in a perfect position. If the screen shows you this position, the operator can pick up the containers (Pick Up Container).

EXIT & CONFIRM PROCESS

In this system the CTT operator does not need to do manual confirmation. The sensor will OFF when it detects there is no objects on the docking. It indicates that PICK UP CONTAINER process is done. When the CTT is getting out from docking area and hit the ground loop 1 and ground loop 2, the system will send confirmation to TOS.

AUTOGATE SYSTEM

The most important activities in the container is at the gate process. Where gates must function properly for export and import activities, should be optimized to prevent operator error or inaccurate recording of detailed information at the gate. That requires autogate system that manages transactions at the gate.

TOS Communication Server

Automatic Container Number Recognition

Customs Module

Damage Inspection

Autogate system is an integrated system includes:

- TID Card Manager
- E-Ticket Manager
- E-Billing
- Checkpoint Manager
- Technology:
- RFID
- Programmable I/O Controller Machine to Machine (M2M)
- Internet of Things (IoT)
- Signal Processing
- Optical Character Recognition (OCR)
- Image Recognition
- HOW IT WORKS SCAN TID AUTOMATIC GATE SYSTEM BUSINESS PROCCESS **RECEIVING - OUTBOUND** SCAN GATEPASS Verify data container with data terminal Capture container weight Integrated with automatic gate system PLACEMENT CONTAINER Checking container number Capture image OCR CAPTURE **TRUCK IN YARD** Validate data container & document AXL COUNTER Calculate axis vehicles Damage Inspection 0.1 Ĵ CONTAINER CHECKING CHECK CONTAINER Container Number Container Seal TRUCK OUT YARD License Plat COMMON GATE AREA ID Truck Document Checking TERMINAL AREA DATA VALIDATION TRUCK GET OUT anture imag atic Gate System Business Process | Receiving - Outbou ©PT Integrasi Logistik Cipta Solusi 2017



AUTOGATE SYSTEM

Our services also include providing supporting hardware for the Autogate System. We supply all the latest products you might in need in the industry of Autogate System. We are always looking for ways to better the services we offer our clients in efforts of becoming the best. Our strong autogate support and technical team offer the best autogate maintenance and autogate consultation services.

The hardware we provide, including:

- Box Enclosure
- Speaker TOA
- Industrial Display
- Industrial PC/Panel PC
- RFID Reader/QR Code Reader
- Thermal Printer (and paper)
- E-ticket Printer
- Signal Converter (ADAM I/O Device Series)
- Network Camera (Supported with Plate Number-Recognition Technology)
- Barrier Gate
- Traffic Sign Board

Communication support devices:

- Master Intercom
- Intercom Sub Station

Support installation devices:

- Cable Loop Detector
- Cable Jack
- Roll Power
- Skun Ferrules
- Cable Ties
- Terminal Block
- Adaptor
- E etc.





SMART SHELVES SYSTEM WITH IBEACON

A beacon-powered smart shelf is supplied with a supplied with a radio frequency identification reader. The reader can be built into the shelf or placed above, underneath or behind the shelf. What can it do? The reader scans the targeted items (iBeacon placed on the items) on the shelf and then notifies the backend system of the items placed on the shelf.



PATTERN RECOGNITION USING ARTIFICAL INTELLIGENCE (AI)

01

02

Each beacon is placed in a certain position

This beacon's broadcast data is received by a number of Readers and these Readers forward the data to the Server.

03

04

The AI registers the signal patterns of each beacon and registers it as experience for certain position.

In the future when the Server encounter the same data pattern (can be resulted from different Beacon), the System will determine that the beacon position is at that certain position.





This beacon's broadcast data is received by a number of Readers and these Readers forward the data to the Server.

The AI recognizes the signal pattern of the beacons and determine the location based on registered experience

When a new data pattern arises (not experienced before) or When there are more than one positions have the same data pattern (eventhough it is less likely happened), the system will use other techniques to determine the location of the beacon



SMART UMRAH



SMART UMRAH

Worried about getting lost during the pilgrimage? Need a doctor? There is 'smart umrah' app that are ready to help

condition of umrah pilgrims.

Smart Umrah is a smart system that utilizes geofencing features used for handling SOS and monitoring umrah pilgrims. The main objectives of Smart Umrah is:

- 1. Handling SOS for pilgrims who experience emergency conditions both lost and sick, can quickly and efficiently report the situation to the officer. The officer who receives the report can easily find out the last location of the pilgrims and can communicate with the person concerned.
- 2. Geofencing. Officers can make boundaries of safe areas and dangerous areas. This feature makes it easy for officers to monitor pilgrims to remain in a safe area.

SYSTEM COMPONENT



guard is used to monitor the status of pilgrims.

THE KEY SUCCESS FACTOR

update their location.

Among the key success factors for a Smart Umrah solution are:

- Easy to wear and robust. People tend to forget about the device if it is just a normal tag, however, having a
 device like a "watch" is rarely forgotten because the watch is seen to be an everyday wear. It's also important
 to have a device with a long battery life. However, just like any smartphone, the pilgrims have that option to
 carry along a Powerbank to charge the device just in case it requires that extra juice.
- Emergency. There will be likely a 90% chance that the pilgrim will get sick during umrah period. The heat can cause dehydration and people can get fainted and send to the hospital. There must a better method for a 2-way communication between the pilgrims and the Umrah Authorities.
- 3. End-to-End Umrah Management System People spend the lifetime savings for that single holy journey. Managing lots of people is not an easy task. Pilgrims are divided into smaller groups and traveled together under their assigned officer. Thus, it's the responsibility of the officers and their agencies to take care of their pilgrims. However, they need to have the right tool or system to monitor them.

BUSINESS PROCESS AUTOMATION (BPA)

PRODUCT PORTFOLIO



EMERGENCY MEDICAL SERVICE (EMS)

INTRODUCTION

Ambulance is one component of Emergency Medical Services (EMS). Ambulance is an emergency transportation tool used by hospitals or related agencies that help people who need medical assistance. Ambulances are equipped with medical equipment and medical personnel and are used to transport patients from certain locations to other locations.

With current technological developments, applications in smartphones and the internet can be synergized with the need for an accurate prehospital emergency service system that is able to provide information on emergency response needs quickly and anytime and anywhere.

The Emergency Medical Service (EMS) which was built using this technology aims to:

- 1. Improving the quality of ambulance services, especially for emergency cases in hospitals.
- 2. Increasing public confidence in pre-hospital emergency services.
- 3. Increased internal control in ambulance services, especially for emergency response cases.
- 4. Effectiveness and efficiency of emergency response services.
- 5. Obtain data for analysis in order to improve services in the ER.

WHY IS EMERGENCY MEDICAL SERVICE (EMS) NEEDED?

Emergency services are one of the important elements of public services in order to improve the quality of life of the community.

Optimizing the referral system between health facilities while maintaining excellent protocols with other EMS agencies.



Improvement in emergency medical service by providing patients with timely access to emergency medical

Innovative technology that will support the dual objectives of patient-centered care and EMS staff safety.

OBJECTIVES

Emergency Button

Emergency button and ambulance booking service that makes it easier for patients.

Dispatch System

Call center and dispatch system.

Ambulance Position & Prehospital Care

Real time ambulance position and patient vital signs (prehospital emergency care) during patient transport to emergency room.

Monitoring from ER

Monitoring the status of the ambulance and the patient.



EMERGENCY MEDICAL SERVICE (EMS)

HOW IT WORKS?



Panic Button

For Patient/Patient Guardian

This system is activated when patient/patient guardian who is experiencing an emergency or non-emergency situation, calls the service to request an ambulance. This request can be made by making phone calls or using panic button or mobile application.



Ambulance Crew App

patient vital sign data using PHC mobile app.

For Ambulance Driver & Nurse/Doctor

Dispatch Management

For Call Center/Dispatcher

Call Center/Dispatch management team will respond to this request by recording the case and assigning an ambulance. Then Ambulance crew who get this task will continue the rescue process.





From departure, transport process to arrival at the hospital, ambulance driver can update the ambulance time record using

Ambulance Driver Mobile App. And the nurse can input and update

Ambulance Monitoring

For ER Room

While emergency response team can also monitor all the process through Ambulance Monitoring, so that when the rescue team arrives, they can respond immediately.



Ambulance Portal

Other departments can also monitor all processes through the Ambulance Center Portal. The portal is also used to manage system configurations such as ambulance settings, schedules, employees, areas, etc., as well as to view reports.



RETAIL MAPPING

Retail mapping was originally developed for Lafarge Indonesia to fill the need of a tool for sales and marketing departments that goes beyond just a sales force automation tool. Retail mapping is a solution that combines sales force automation and competitive intelligence concepts. Retail mapping makes the following ponts easy to do:

- Registering new shops in the field
- Registering sales and feedback from shops
- Ensure the validity of data
- On line an off line mode
- Analyzing data. Retail mapping provides 2 (two) ways of analyzing data: GIS, and Reports and charts





The components within Retail Mapping solution:

- 1. Mobile App. This is an Android based software running on the Android phone carried by a sales agent to register shops and entry sales and feedback from shops.
- 2. Portal. A web based application that enables user to get analysis of data easily by using reports or GIS component.
- 3. Back End. A web based application mainly used to do configuration of the system.
- 4. Web Service. A separate web service layer is available to support integration with Android mobile device and customer's legacy system. By empowering web service technology, retail mapping solution is flexible and extendable to be integrated with other mobile device platforms.

GPS Technology brings easiness of locating the registered shop accurately. GPS will give the lattitude & longitude information of sales force with Android handset.

QR Code. Every store can be tagged with a QR code label. Combination of IMEI and login. On login Process, retail mapping validates the combination of device IMEI with the login information.

With the latest cloud technology, data processed & stored safely in storage with reliable access. Server can be accessed by many type of connection.

Easiness of access from various kind of smartphones. On line and off line mode. In rural area where mobile network signal is not good enough to establish data connection to the central server, retail mapping will automatically switch to offline mode and stre the data temporary n a local database running in the android device. With internet connection, get access to the system from your office wherever its located and start analyzing the data.

GIS. Using the GIS component of retail mapping, a user can easily spot the areas where has better market share than its competitors and vice versa.

IT SOLUTION FOR BETTER BUSINESS



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HEAD OFFICE:

Rasuna Office Park Unit ZO-05 Kawasan Rasuna Epicentrum JI. HR Rasuna Said, Kuningan - Jakarta Selatan 12960 - Jakarta, Indonesia

BRANCH OFFICE:

Mandiri Building Medan, Lantai 5 - Unit 510 JI. Imam Bonjol No. 16D, Kel. Petisah Tengah, Kec. Medan Petisah, Kota Medan 20112 - Sumatera Utara Indonesia Phone : +62 81 1618 2017

MALAYSIA REPRESENTATIVE:

Muhammad Said Phone: +60 10 214 3368

For more information about us visit https://www.halotec-indonesia.com | email: solution@halotec-indonesia.com