TOMAS TECH

# *Order and Purchase Management System Pegasus*

Presentation by TOMAS TECH CO., LTD.

# AGENDA

1. Overview of the Order and Purchase Management System
2. Details of the Order and Purchase Management System
3. Case Studies
4. Appendix

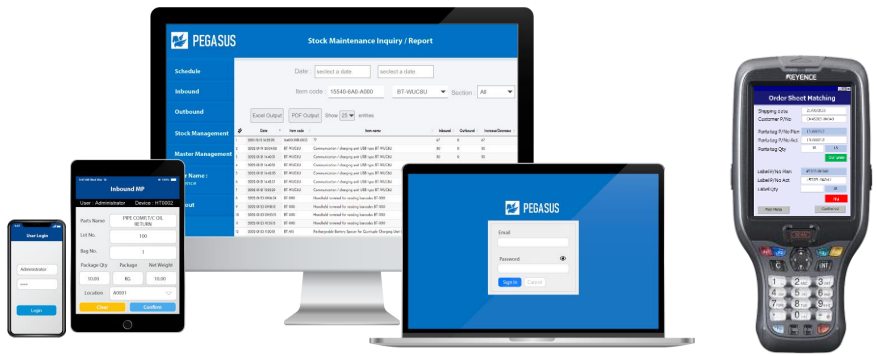
# Overview of the Order and Purchase Management System

# Introduction to PEGASUS



The PEGASUS Production Management System is **an application designed to streamline complex management tasks.**
In recent years, the manufacturing and logistics industries have faced increasing demands to adapt to diverse market needs through **small-batch, high-variety production and shortened lead times.** Many factories handle both high-volume production and small-lot orders simultaneously, making management tasks even more complex and **requiring meticulous scheduling and inventory control.**
PEGASUS was developed to improve operational performance in manufacturing and logistics settings.
By utilizing Handy Terminal, it digitalizes the previously cumbersome management tasks that were often handled through whiteboards and Excel, providing **complete visibility and significantly reducing costs.**

PEGASUS

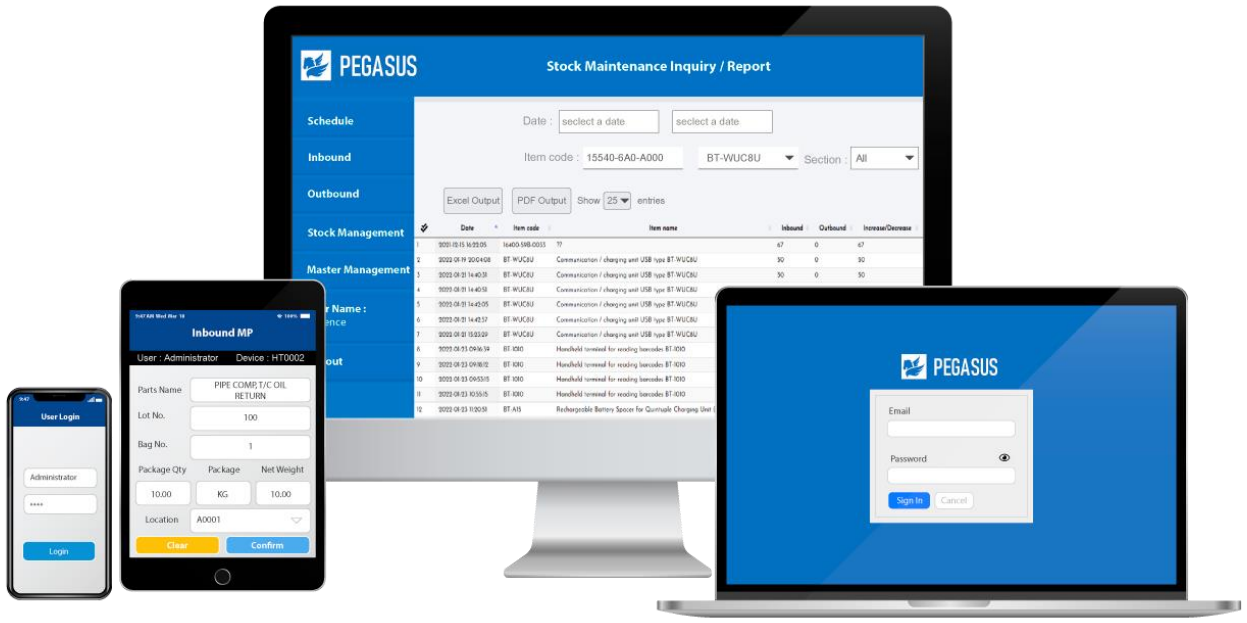



- Stock Management
- Process Management
- Sales Order Management
- Fixed assets management
- Stocktaking system
- POKA Inspection system
- Traceability system
- Unlock system
- Operation monitoring system
- Weight checker system
- Label printing system
- RFID system

# Overview of the Order and Purchase Management System



The PEGASUS Order and Purchase Management System is designed to **support comprehensive order management within the manufacturing industry.** It enables **end-to-end oversight**, from materials procurement to order processing.
The system automatically calculates the required quantity of materials based on finished product orders. Using BOM data, **it determines the necessary quantities and identifies shortages based on current stock levels.**
Additionally, it can calculate optimal order quantities in alignment with minimum lot sizes and inventory counts. This **significantly reduces the time required for data aggregation tasks and minimizes errors in the process.**




# Benefits of the Order and Purchase Management System



1

### Inefficient Operations

Managing processes with paper and Excel consumes considerable time in “collection”, “organization”, and “analyzation” of information.

2

### Management Costs

Analog management generates unnecessary "costs" due to inefficiencies and potential errors.

3

### Black Box Operations

Reliance on individuals and lack of digital management obscure process status and work visibility.

### Improvement of Operational Efficiency

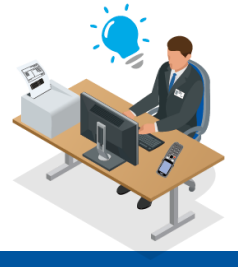
Digitizing processes reduces workload and enables efficient information "collection," "organization," and "analysis."

### Reduction of Management Costs

By implementing digitalization, management workload can be reduced, leading to significant "cost" savings.

### Visibility of Overall Operations

Through digitalization, the status of operations becomes fully visible.



# Details of the Order and Purchase Management System

# Introduction to the Order and Purchase Management System Functions



Project Management

Estimation Creation

Quotation Creation

Quotation Comparison

01 Order Registration

02 MRP

PO Creation (Project)

PO Creation (General Materials)

Purchase Information Comparison

Project Management

03 Purchase Registration

*Optional Customization

Work-in-Progress A(N) > Material B(N-1)

Inbound date: 2024/08/29

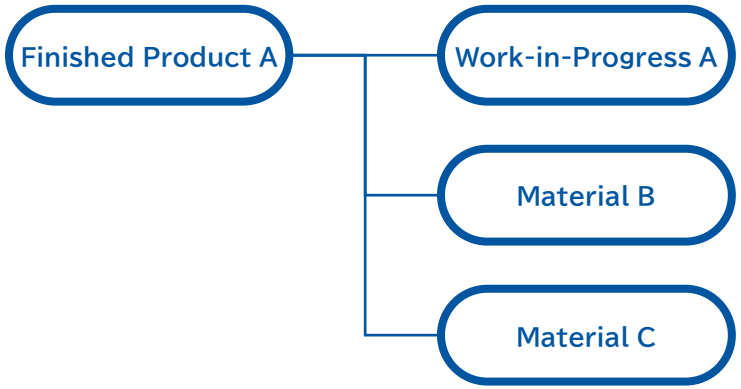
Inbound date: 2024/08/30

# Introduction to the Order and Purchase Management System Functions



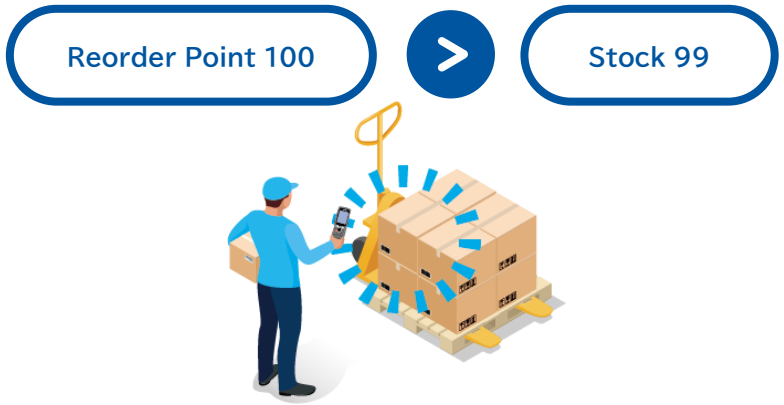
## 01 Order Registration & Forecast Registration

Order and forecast information can be registered in PEGASUS based on customer data. Registration is possible at two levels: confirmed PO or unconfirmed forecast. This allows the creation of production and shipment plans for finished products.



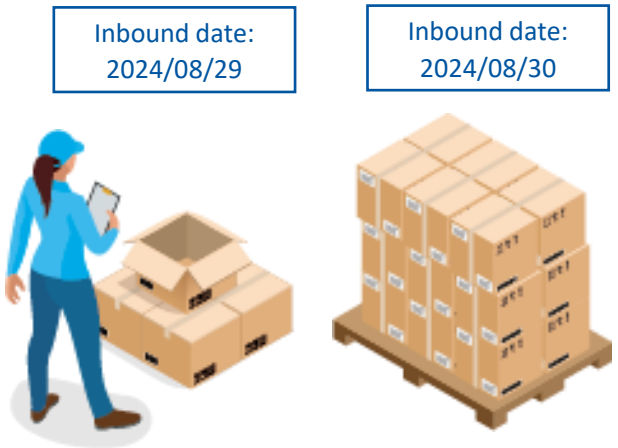

## 02 Material Requirement Planning MRP

Material requirements are calculated based on order and forecast data, considering inventory levels, reorder points, and scheduled arrivals. Ordering conditions, such as minimum lot sizes, enhance convenience and optimize usage.




## 03 Purchase Registration

After MRP, order processing is carried out with suppliers by entering ordered items, quantities, and arrival dates to plan the incoming materials schedule.
Materials receipt is registered via Handy Terminal upon arrival to complete the receiving plan.

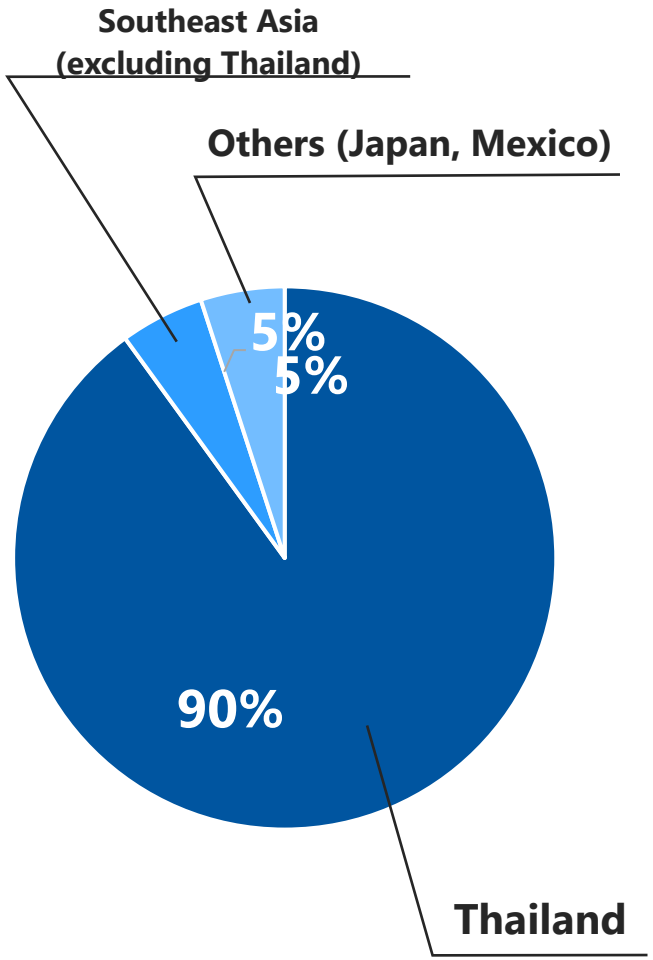


# Implementation Results

# Implementation Results of PEGASUS



## Implementing Countries




## Implementing Companies

**(Production Management, Stock Management, Process Management, Order Management, Poka-Yoke)**

A.N.I. LOGISTICS, LTD.
ACME INDUSTRY CO.,LTD.
ADVICS Manufacturing(Thailand)Co.,Ltd.
AIKAI LOGISTICS (THAILAND) CO., LTD
Asian Stanley. International Limited.
Asteer (Thailand) Co., Ltd.
ASUTO GLOBAL LOGISTICS(Thailand) CO.LTD.
ATA Casting Technology Co., Ltd.
BOLLORE LOGISTICS (THAILAND) CO.,LTD.
CHI CHANG Computer (Thailand) Co.,Ltd.
Ebisu Foods Co Ltd.
FEDERAL-MOGUL SERINA CO.,LTD.
HCAMB (CAMBODIA) CO., LTD.
Hitachi Astemo Chonburi Manufacturing ltd.
Isuzu Engine Manufacturing Co.,(Thailand) Ltd.
Isuzu Logistics Asia (Thailand) Co.,Ltd.
JYOHO SYSTEMS S.A. DE C.V.
Kaneka (Thailand) Co., Ltd.
KIMBALL ELECTRONICS (THAILAND) LTD.
KTX PRECISION (THAILAND) CO., LTD.
LF LOGISTICS (THAILAND) LIMITED
Mitsubishi Heavy Industries-Mahajak Air Comditioners Co., Ltd.
Logistics Alliance (Thailand) CO.,LTD.
LUMEN (THAILAND) COMPANY LIMITED.
MAX(THAILAND)CO.,LTD.
MEIJI (THAILAND) CO.,LTD.
Minebea AccessSolutions Thai Ltd.
Nidec Techno Motor (Thailand) Co.,Ltd.
Nidec Techno Motor Vietnam Corporation
Nippon Express Logistics (Thailand) Co., Ltd.
Nippon Steel Logistics (Thailand) Co., Ltd.
Nissan Motor (Thailand) Co., Ltd.
NMB-Minebea Thai Ltd.
NTPT Company Limited.
NTT DATA Cambodia
OIZURU (THAILAND) CO.,LTD.
Okaya (Thailand) Co., Ltd.
P&P Product Leadership Co.,Ltd.
PT.OKAYA INDONESIA
QUADEL SOLUTION PRINTING.CO.,LTD.
RIGHT EQUIPMENT CO.,LTD.
SAMSUNG SDS GLOBAL SCL (THAILAND) CO.,LTD.
SEIWA PIONEER LOGISTICS CO., LTD.
SHINSEI KOKI (THAILAND) CORPORATION LIMITED
Shodensha (Thailand) Co., Ltd.
Summit Showa Manufacturing Co., Ltd.
System Upgrade Solution BKK Co.,Ltd.
TADA (THAILAND) CO.,LTD.
Tang Chai Huad 1988 Co.,LTD.
Tantraphan Supermarket Co., Ltd.
THAI COCONUT PUBLIC COMPANY LIMITED
Thai Metaltech Co.,Ltd.
THAI SHIN MAYWA CO.,LTD.
THAI SIMON SAFETY INDUSTRIES CO.,LTD.
TOWA THAI CO.,LTD.
Trancom Transport (Thailand) Co.,Ltd.
Ueda Plastic (Thailand) Co.,Ltd
UFM Fuji Super Co., Ltd.
YAMATO ELECTRIC (THAILAND) CO.,LTD
YN2-TECH (THAILAND) CO.,LTD.
LG ELECTRONICS(THAILAND) CO.,LTD.

**Production Management System Implementation Case Study**

# PEGASUS Production Management System (Stock Management, Process Management, Order Management)

## A small steps installation is implemented to ensure complete alignment with the requirements.

▲ Kaneka Thailand Staff
TOMAS TECH Staff

## Kaneka (Thailand) Co.,Ltd.

Kaneka Corporation, a leading chemical manufacturer based in Osaka and Tokyo, established Kaneka (Thailand) Co., Ltd. in 2015 to produce expanded resin products for Southeast Asia. Recently, the company has diversified its product range, including food products, solar cells, and wigs, expanding into Thailand and other ASEAN countries.

### Problems

**1. Human Errors Due to Manual Operations**

Errors occurred during the process of transferring paper production daily reports to Excel and reflecting them in the system, leading to information entry mistakes and loss of paper data.

**2. Inability to Timely Access Accurate Stock Information**

There was a time lag of 2 to 3 days after production before the information was reflected in the system, hindering the ability to obtain accurate inventory information in a timely manner.

### Results

**Timely access to stock information has significantly improved production efficiency. The entire process, from material intake to manufacturing and shipping, is now managed within a single system. By integrating quality inspection data, we have enhanced operational efficiency. Moving forward, we aim to improve management accuracy, reduce excess inventory, and expedite the handling of defective products.**
**(Kaneka Thailand, GM Hamamatsu)**

### Reasons for Choosing Us

The main deciding factor was the ability to develop and customize the system according to our needs through a small-step approach. By installing the system in two phases, we ensured that operations at the site ran smoothly. We have also benefited greatly from the detailed support provided after implementation.
(Kaneka Thailand, MD Yokoyama)

**Production Management System Implementation Case Study**

# PEGASUS Production Management System (Stock Management, Process Management, Order Management)

## Achieved management of over 5,000 items using PEGASUS.

## ACME Industry Co., LTD.

The company, based in Higashi-Osaka City, specializes in designing and manufacturing home electric appliances, including microwaves and toaster ovens. The Thailand factory focuses on integrated production processes such as molding, pressing, painting, and assembly.

### Problems

**1. Human Errors Due to Manual Operations**

Errors occurred during the process of transferring paper production daily reports to Excel and reflecting them in the system, leading to information entry mistakes and loss of paper data.

**2. Inventory Count Conducted Only Twice a Year Due to Large Stock Quantity**

Due to the vast number of items and management conducted manually, stock counts could only be performed once every six months. Conducting these counts allowed for awareness of stock levels.

### Results

**By being able to grasp inventory information in a timely manner, production efficiency has significantly improved. Previously, stock levels were understood through semi-annual counts, but now, with real-time stock tracking, the accuracy of orders has increased. Implementing MRP with PEGASUS has eliminated issues such as missed orders and over-ordering, allowing for optimal stock management.**

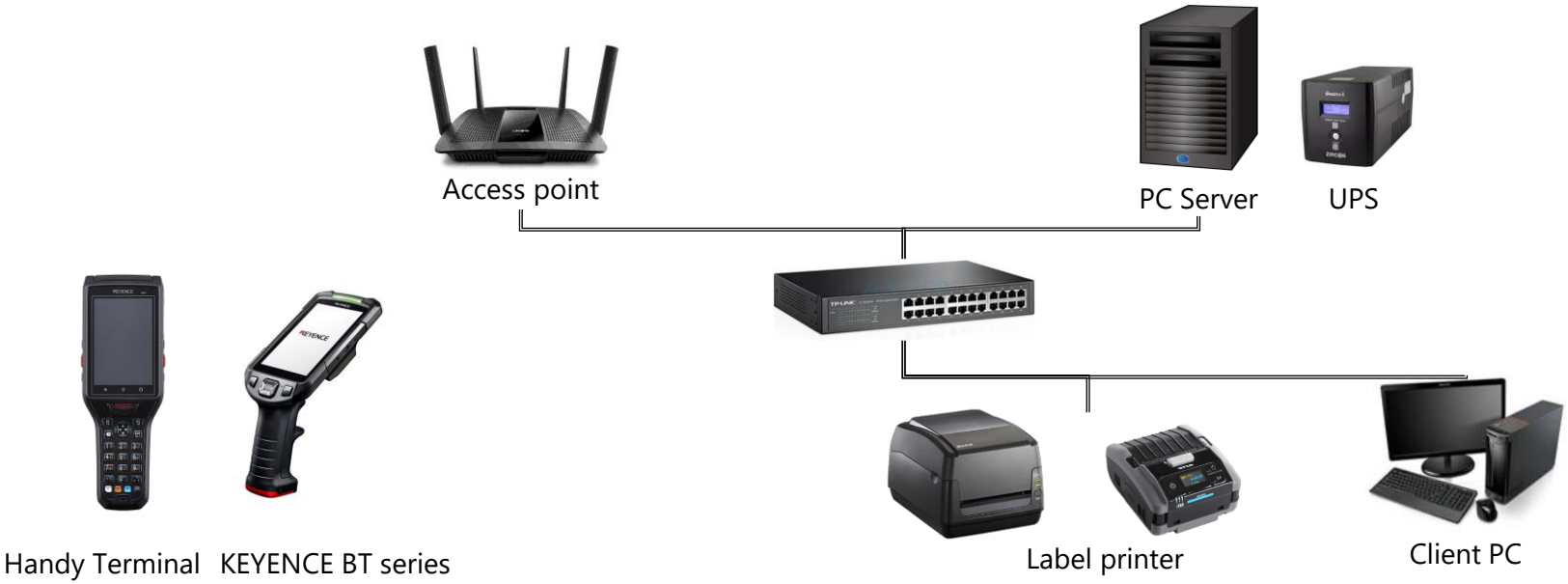
### Reasons for Choosing Us

The primary reason for selecting TOMAS TECH is its flexibility in customizing the system without increasing our workload. This capability ensures a seamless implementation process, enabling employees to operate efficiently within the system without any disruptions.

# Appendix

# System configuration






| No | Item | Recommended specifications and models |
|---|---|---|
| 1 | PC Server | OS: Windows Server 2019R2 Standard / Memory: 8GB or more / Hard Disk: Available space of 50GB or more / Display: Resolution of 1366×768 or higher / Browser: Google Chrome (latest version) ※Ensure that the server specifications exceed these recommendations for optimal performance. |
| 2 | Client PC | OS: Windows 7/8.1/10 / Memory: 4GB or more / Display: Resolution of 1366×768 or higher / Browser: Google Chrome (latest version) ※Ensure that the PC specifications exceed these recommendations for optimal performance. |
| 3 | Handy terminal | KEYENCE BTシリーズ (Android OS type) |
| 4 | Access point | IEEE802.11a/b/g/n |
| 5 | Label printer | WIFI compatible model/Material: Art Permanent/Size: 55 x 85 mm. |
| 6 | UPS | UPS shutdown signal type |

# System maintenance



| | | |
|---|---|---|
| **1. Current Situation Analysis** | We will conduct interviews to gather information about the current business operations and the systems in use.<br>This will allow us to confirm requirements and analyze the customer's current situation.<br>Based on these requirements, we will prepare a quotation. | **Within sales** |
| **2. Requirements Definition** | Based on the results of the current situation analysis, we will conduct a detailed requirements definition.<br>We will verify the detailed requirements to ensure that the system can be implemented in line with actual operational needs. | **1-8 weeks** |
| **3. Design** | We will conduct design activities, including basic design, detailed design, and migration preparation,<br>based on the requirements while holding progress meetings. | **1-3 weeks** |
| **4. Development and Testing** | We will develop the system to fit your business needs and proceed to testing.<br>To ensure a smooth implementation, we will also consider migration methods. | **1-12 weeks** |
| **5. Implementation Support** | During the implementation, we will conduct training sessions while operating in parallel<br>with the currently used system or processes. After confirming the user experience,<br>we will proceed with the final acceptance inspection. | **1 week** |
| **6. Go-Live** | The system will officially start operation. We will provide long-term support for safe and<br>comfortable system usage through operational maintenance support, helpdesk services,<br>information provision, and updates. | **Min : 4 weeks**<br>**Max : 24 weeks** |

# System maintenance



| # | Software Maintenance | | Standard / Option |
|---|---|---|---|
| 1 | Operation Support and Recovery Assistance | We will establish a support contact to provide operational support via phone and email, as well as recovery assistance in the event of software malfunctions. | Standard*1 |
| 2 | Providing updated software versions | Upgraded software versions will be provided at no cost when improvements are made, ensuring compatibility with the latest operating systems. This eliminates software costs for server updates, reducing lifecycle expenses. | Standard*1 |
| # | **Hardware Maintenance** | | |
| 1 | Hardware Maintenance | In the event of a server failure, our company or the hardware manufacturer will carry out on-site repairs, including parts replacement. | Option*2 |
| # | **Software Reinstallation** | | |
| 1 | Software Reinstallation | In the event that software reinstallation is required after server repair, we will carry out the restoration process. (Please note that stock data recovery is not included in the software reinstallation.) | Standard*1 |

*1) Services will be provided at the system purchase price for the first year of the contract.
Starting from the second year, contracts will be on an annual basis.
*2) Services will be provided only if hardware is purchased from our company.

# Contact us

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TOMAS TECH

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