



Proposal for Maintenance support

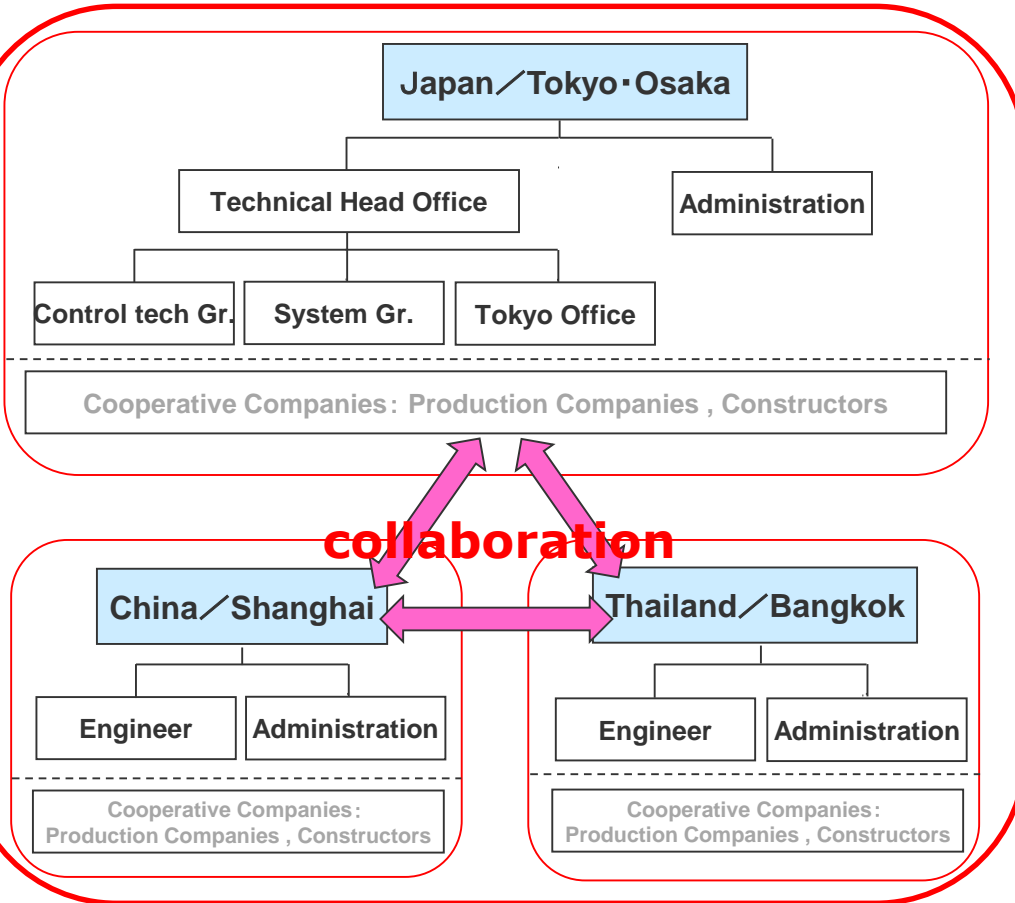
KANATEC CO., LTD. Tokyo · Osaka
KANATEC CONTROL SYSTEM (SHANGHAI) CO., LTD.
(Kanatec Shanghai) 
KANATEC(THAILAND) CO., LTD.(Kanatec Thailand) 

Global System Development

(Osaka, Tokyo, Shanghai, Bangkok)

Kanatec

Kanatec Global About 70 employees in total (Except cooperative companies)



■ Global System Structure

① Small and medium-sized projects

We carry out meeting, design, and software development at each base, then we instruct our employees, and manage them at Technical Head Office in Japan, and provide technical assistance depending on the situation.

② Large scale & High-tech Projects

We organize the projects at Technical Head Office in Japan, and carry out meeting, design, software development and management in Japan, and we make panels, electrical work and maintenance in China or Thailand.

We quickly meet various requests of our customers.

■ Global Maintenance

① We are based in Japan, China, and Thailand and cover

Japan, China, Taiwan, Korea, and ASEAN countries.

② We consult with our customers about the best method for other areas.

③ By using remote system, we provide support and full maintenance from the nearest base.

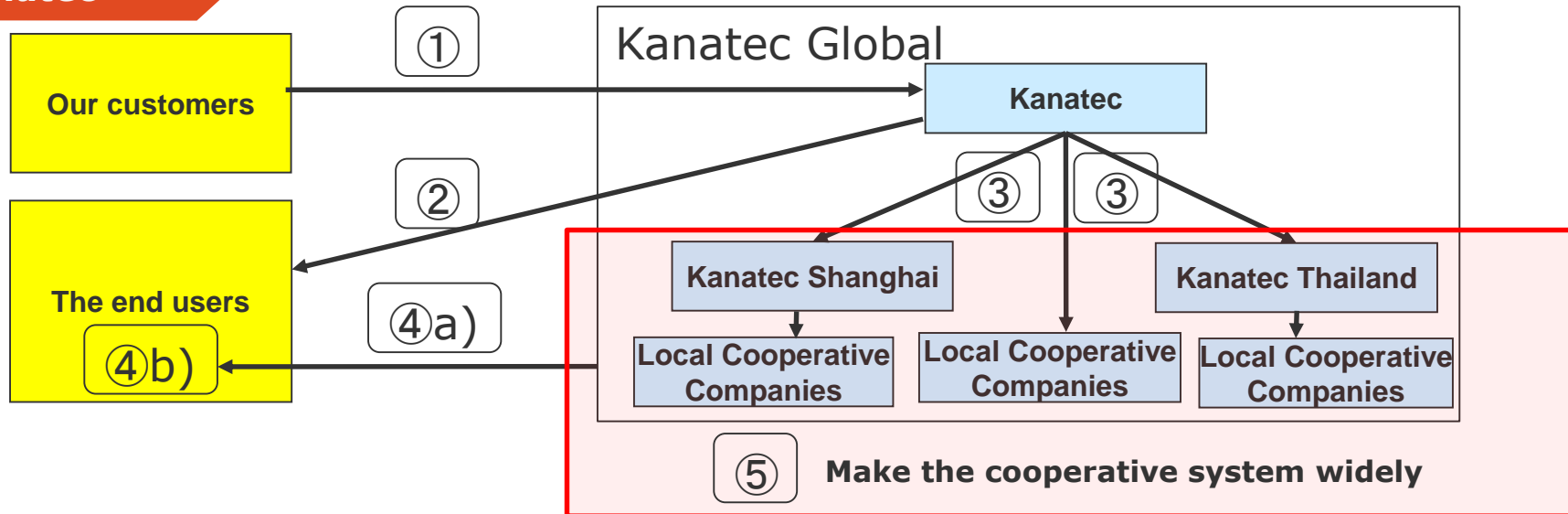
■ Global Procurement

① We carry out parts procurement from suitable base, so we can make suggestions to drive up the benefits.

② Hardware such as manufacturing panels would be done in advantageous place.

Flow of the Maintenance Work (Remote Place)

Kanatec



① We hear from our customers.

② We confirm the conditions of the facilities by using remote monitoring system. Then, we judge that we need parts procurement, amendment of software, and filed work.

③ If the filed work is required, we choose the best measure by taking into account the distance and the contents, and we consult with our customers.

④a) We go to the site.

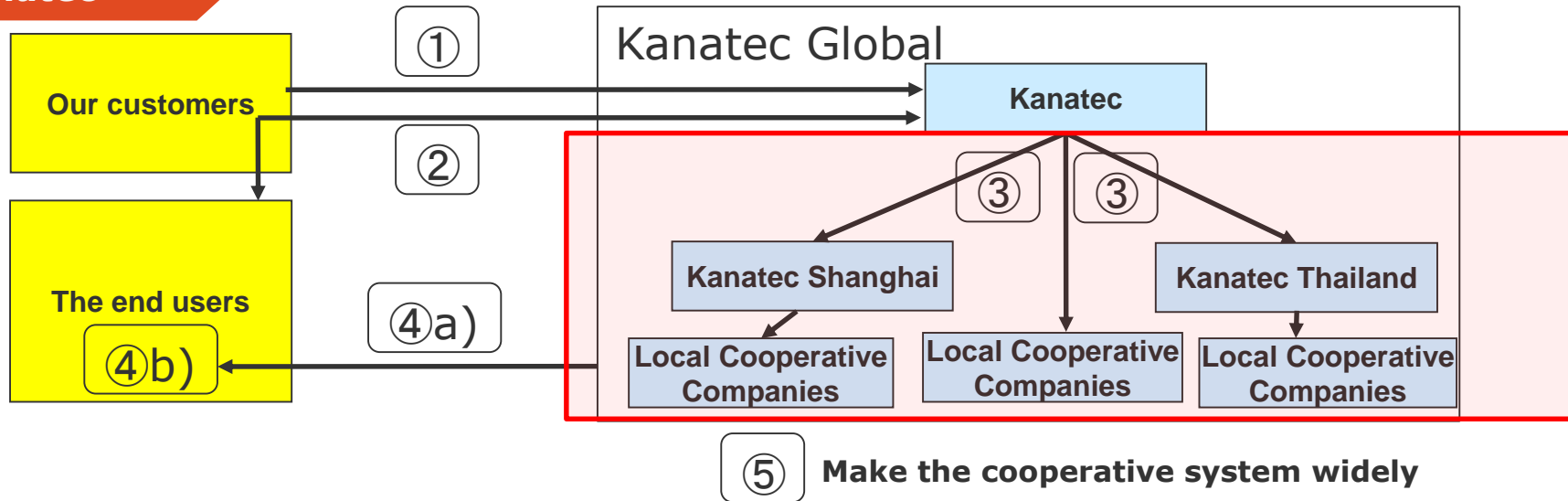
We also advance the work steadily by providing the supports in the office.

b) We communicate with the person in charge, and our customers themselves deal with it.

⑤ We make the cooperative system widely by increasing Kanatec's bases and the local cooperative companies.

Flow of the Maintenance Work (Nearby Place)

Kanatec



① We hear from our customers.

② We ask our customers about the condition of the facility by phone or email, and confirm it. Then, we judge if parts procurement, amendment of software, and filed work are necessary or not.

③ If the filed work is required, we choose the best measure by taking into account the distance and the contents, and we consult with the customers.

④ a) We go to the site.

We also advance the work steadily by providing the in-house supports.

b) We communicate with the person in charge, and our customers themselves deal with it.

⑤ We make the cooperative system widely by increasing Kanatec's bases and the local cooperative companies.

Structure of Global System

Kanatec

Our Customers

KANATEC CO., LTD. (Head Office)

〒564-0052

10-28 Hiroshiba-cho Suita City, Osaka Japan

TEL:06-6190-1223

FAX:06-6190-1245

Tokyo Office

〒141-0032

1-14-3-903 Osaki, Shinagawa-ku, Tokyo Japan

Gate City Osaki South Park Tower

TEL:03-6303-9065

FAX:03-6303-9066

Engineering Department
◎Okura Technical Manager
E-mail : okura@kanatec.jp
Tel : 090-5650-7236

Sales Department
○Matsue Manager
E-mail : matsue@kanatec.jp
Tel : 090-7755-3309

Design and Manufacturing panels, PLC, TP

Control tech Gr.
○Okuno Manager
E-mail : okuno@kanatec.jp
Tel : 090-8750-6437

Overseas Project, SCADA and PC

System Gr.
○Miki Manager
E-mail : miki@kanatec.jp
Tel : 090-8931-9845

Tokyo Office
○Utsu Manager
E-mail : utsu@kanatec.jp
Tel : 090-5164-2876

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Kanatec Shanghai
Hagino Vice-President
E-mail : hagino@kanatec.com.cn
Tel : +8613918651480

KANATEC (THAILAND) CO., LTD. (Kanatec Thailand)

91/1 Chaiyo Building, 12nd Floor, Room No.1202, Rama9 Road,

Huai Khwang, Huai Khwang, Bangkok, 10310 Thailand

Tel: +66-2643-9512

Kanatec Thailand
Tsuyoshi Kanaji General Manager
E-mail : tsuyoshi-kanaji@kanatec.jp
Tel : +66922750121

Feature of Remote Monitoring System

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PLC Remote Maintenance

- We carry out monitoring PLC of remote place and maintenance by using Internet.

Remote Monitoring and Data Acquisition of Facility on site

- It is available to use same screen as HMI through web browser with introduction of web supported option to HMI (SCADA) on site.

Security Measures

- You can choose communication line from dedicated line (high level), general line (medium level), or wireless line (low level), with consideration for the level of communication speed and reliability.
 - ※ Please prepare your own line.
- Set up our own security interface to remote monitoring system, and request password at the time of connection. It is possible to prevent invasion and execution from unauthorized programs including virus.
(Password will be changed with each connection).

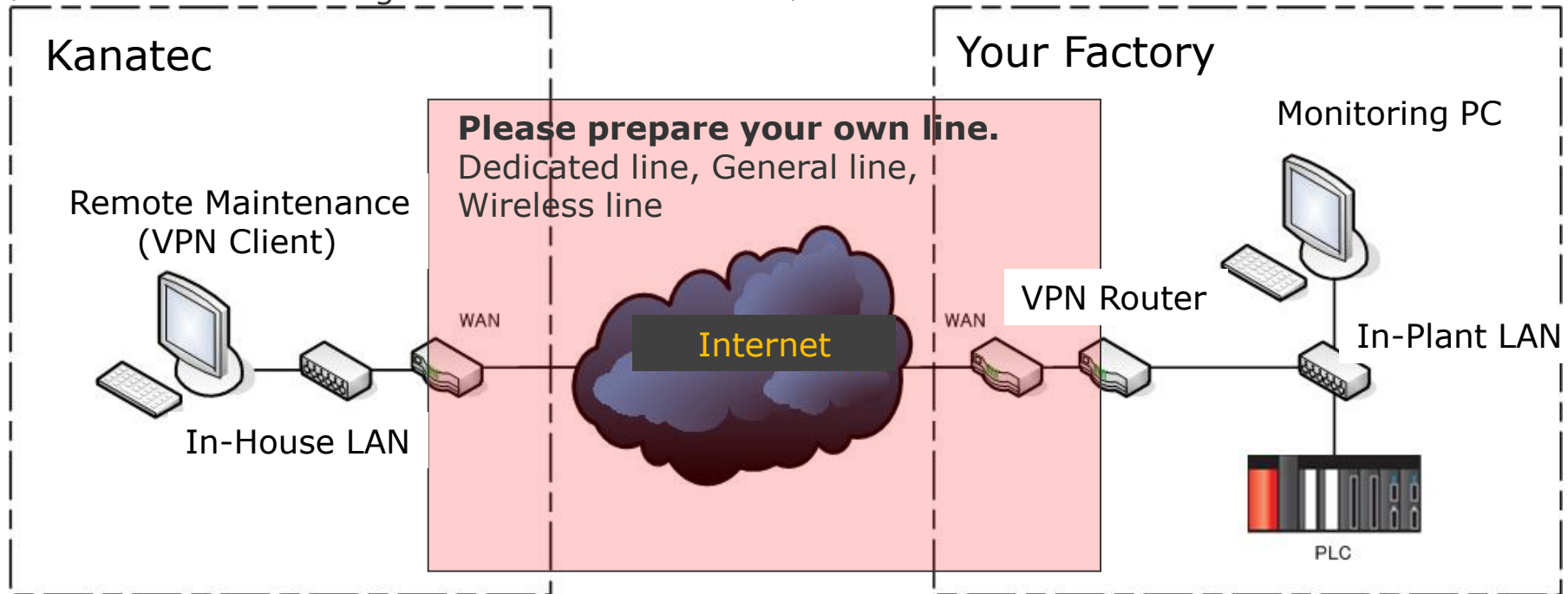
Configuration of Remote Monitoring System

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System Configuration Diagram

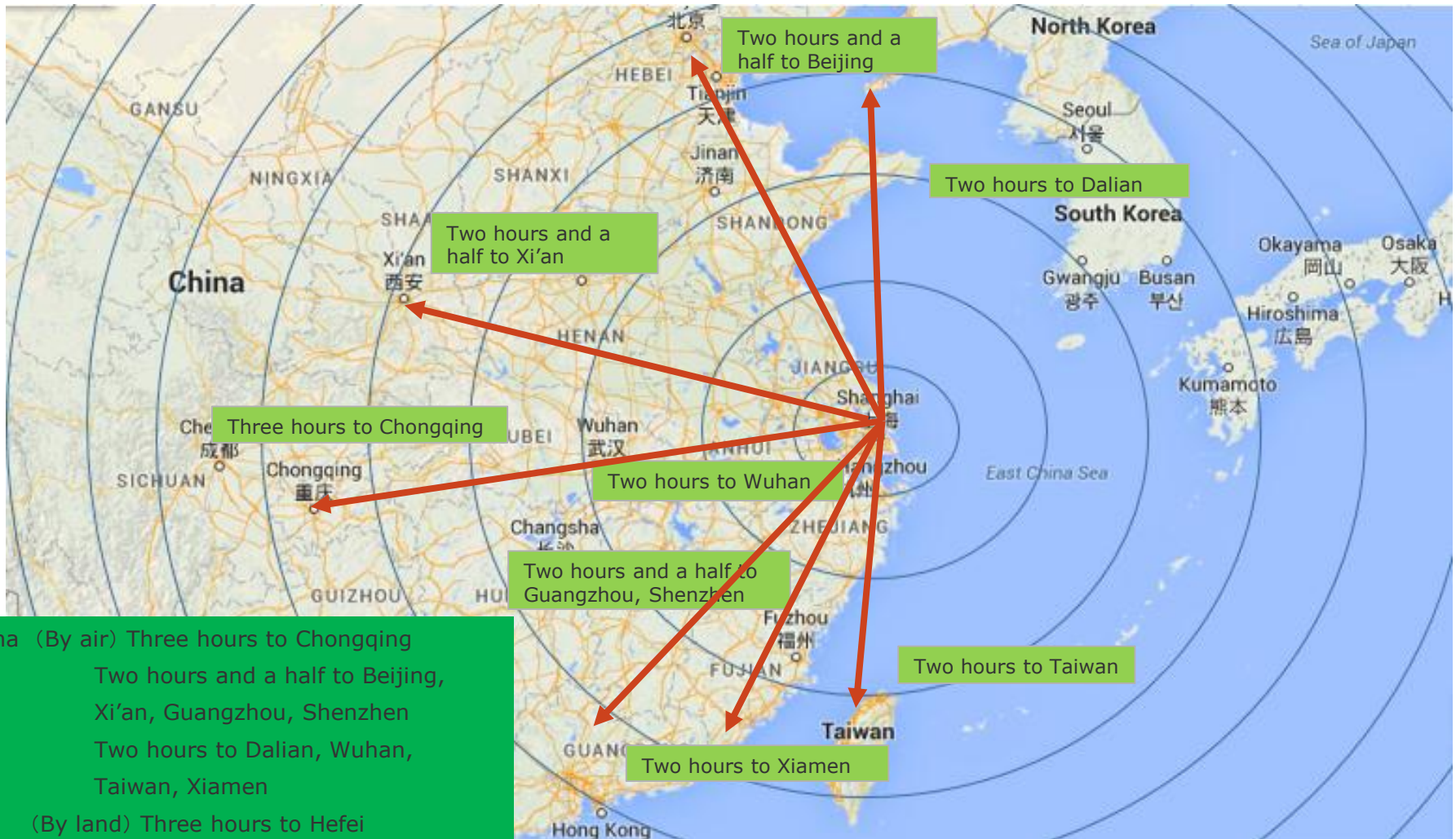
- Deal with Mitsubishi sequencer, SCADA package.
- Set up our own security interface to remote monitoring system, and request password at the time of connection. It is possible to prevent invasion and execution from unauthorized programs including virus.

(Password will be changed with each connection).



Estimated Travel Time from Kanatec Shanghai

Kanatec



China (By air) Three hours to Chongqing
Two hours and a half to Beijing, Xi'an, Guangzhou, Shenzhen
Two hours to Dalian, Wuhan, Taiwan, Xiamen
(By land) Three hours to Hefei
Two hours to Nanjing, Ningbo, Hangzhou
An hour to Suzhou, Wuxi, Nantong

Estimated Travel Time from Kanatec Thailand

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Cambodia	An hour to Phnom Penh
Vietnam	An hour and a half to Ho Chi Minh Two hours to Hanoi
Malaysia	Two hours to Kuala Lumpur
Myanmar	Two hours and a half to Naypyidaw
Indonesia	Three hours and a half to Jakarta
Philippines	Three hours and a half to Manila
India	Four hours and a half to Mumbai

Introduction of Remote Monitoring System

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① Request from Customers



② Field Survey

- We conduct a field survey of existing PLC manufacturer and network configuration.
- You can choose monitoring function, and then we will make an estimate.



③ Visualization of Existing Factory

(Construction of Remote Monitoring System)

- Collect the facility information from the existing PLC, and facility condition can be monitorable.



④ Maintenance Support

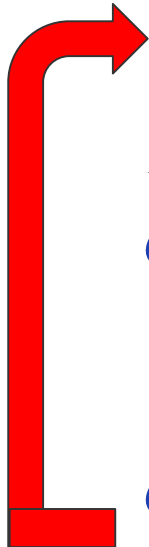
- **Annual Base cost JPY480,000* / a year (off-sight support only)**

Please feel free to consult us regarding on-sight support.

*We would like to discuss about the cost depending on the scale of system.

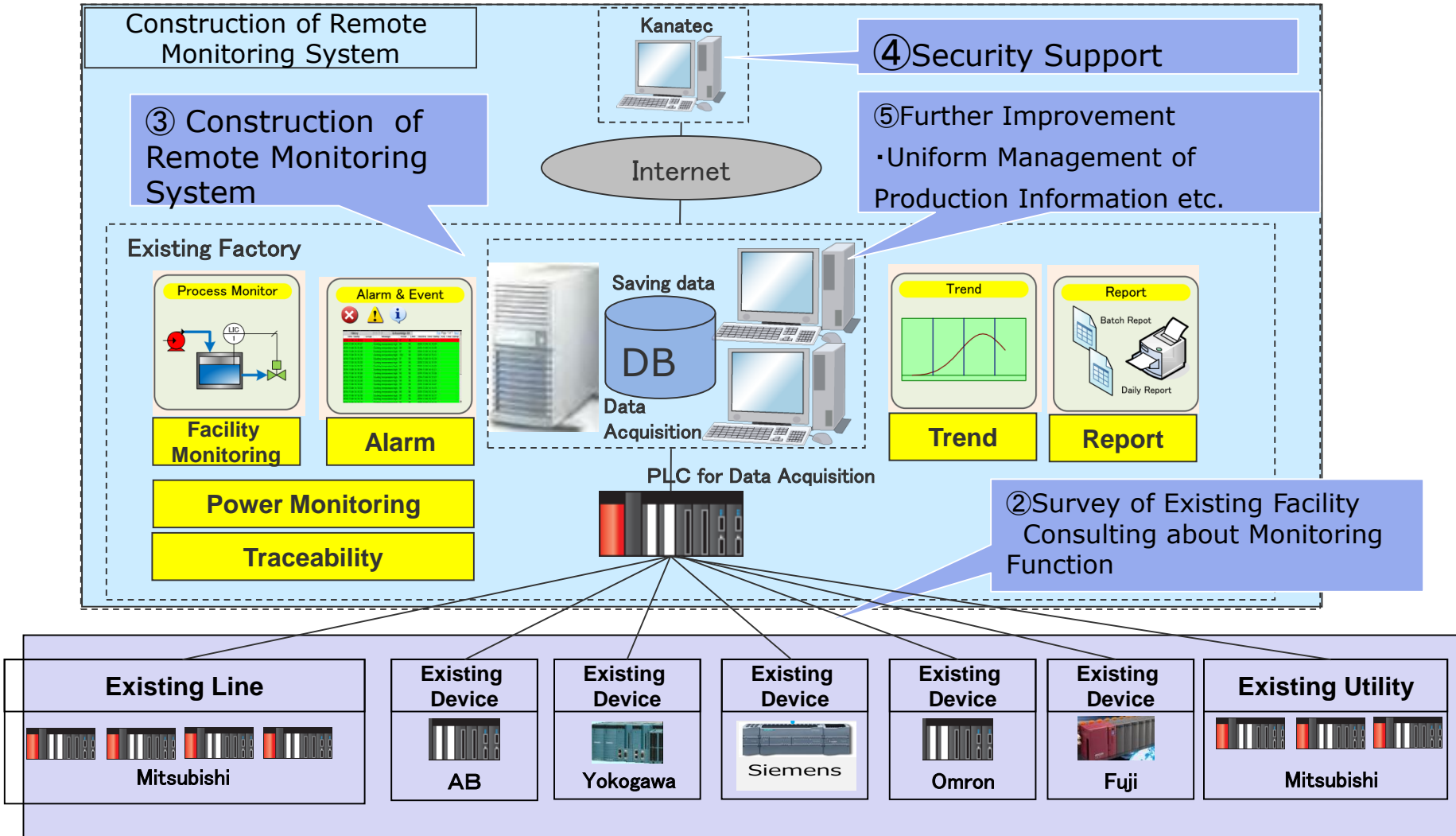
⑤ Further Improvement

- Uniform management of production information
- Notice alarm information by email etc.....



Construction of Remote Monitoring System

Kanatec



Construction of Remote Monitoring System

Kanatec

② Survey of Existing Facility

Using the best Network/Communication from various PLC Manufacturers, collect data to Data Acquisition PLC.

PLC Manufacturers

Mitsubishi
Omron
Fuji
Yokogawa
Siemens
Allen-Bradley
Keyence
Panasonic

etc.(We support whether domestic or overseas manufacturer, if you request.)

Mitsubishi PLC for
Data Acquisition



Network/Communication

FL-net	Profibus
CC-Link	Modbus
MELSECNET/H	LonWorks
DeviceNet	BACnet
Controller Link	Industrial Ethernet
SYSMAC LINK	AS-I
CompoBus/S	etc.
RS-232C, RS-422/485	

Existing Line



Mitsubishi

Existing Device



AB

Existing Device



Yokogawa

Existing Device



Siemens

Existing Device



Omron

Existing Device



Fuji

Existing Utility



Mitsubishi