DxpSERVER

TAKEBISHI

Industrial Communication Platform

DeviceXPlorer® OPC Server

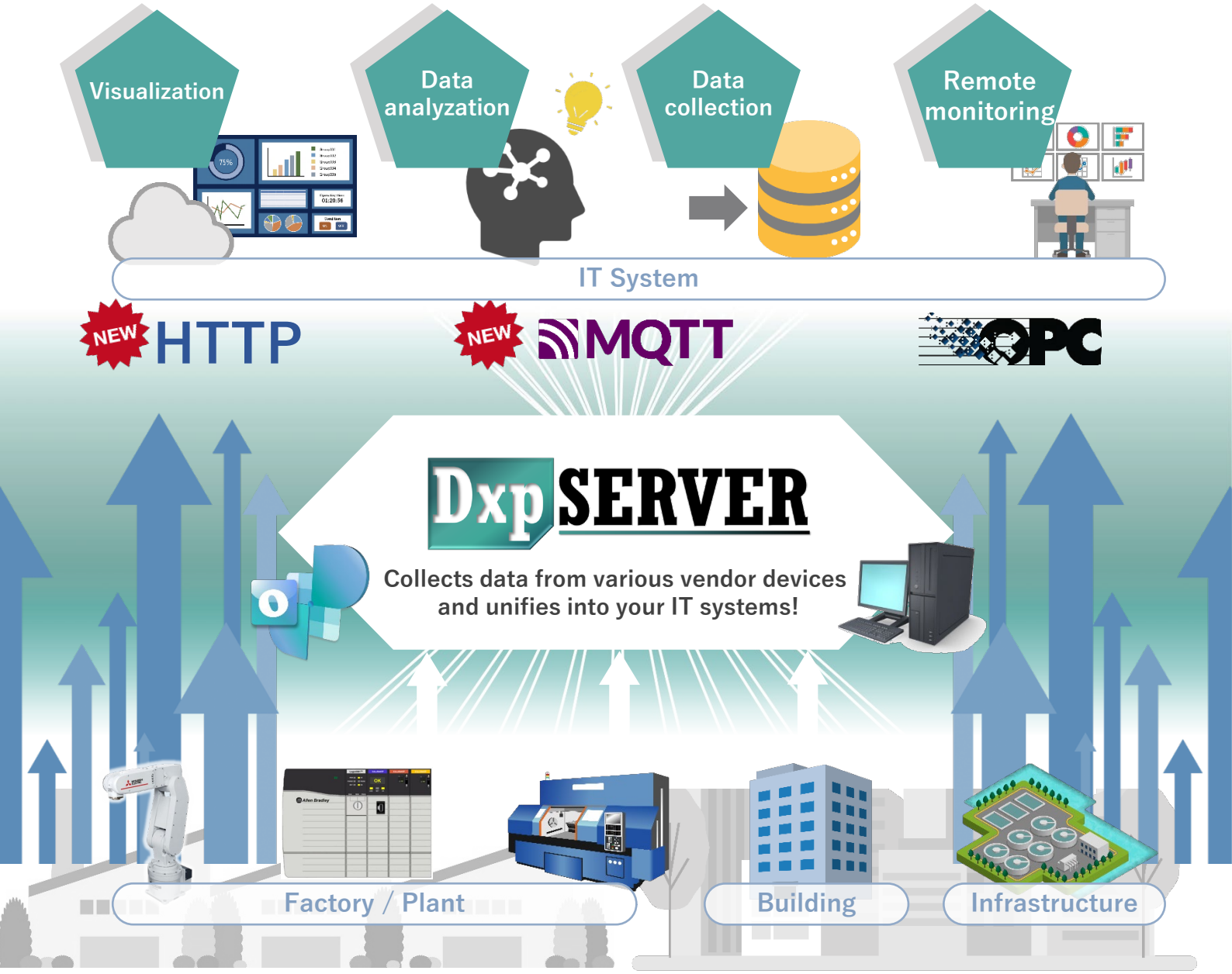
DeviceXPlorer®
OPC Server

Check our
YouTube channel
for more details!

Ver.7

Industrial Communication Platform

DeviceXPlorer® OPC Server Ver.7



Special Features

Enables communication with various IT systems on cloud services and on-premises systems via OPC, MQTT, and HTTP communication protocols.

Can communicate with many kinds of devices (400+ series / 100+ vendors devices) in production sites. Enables centralized management of devices from various vendors.

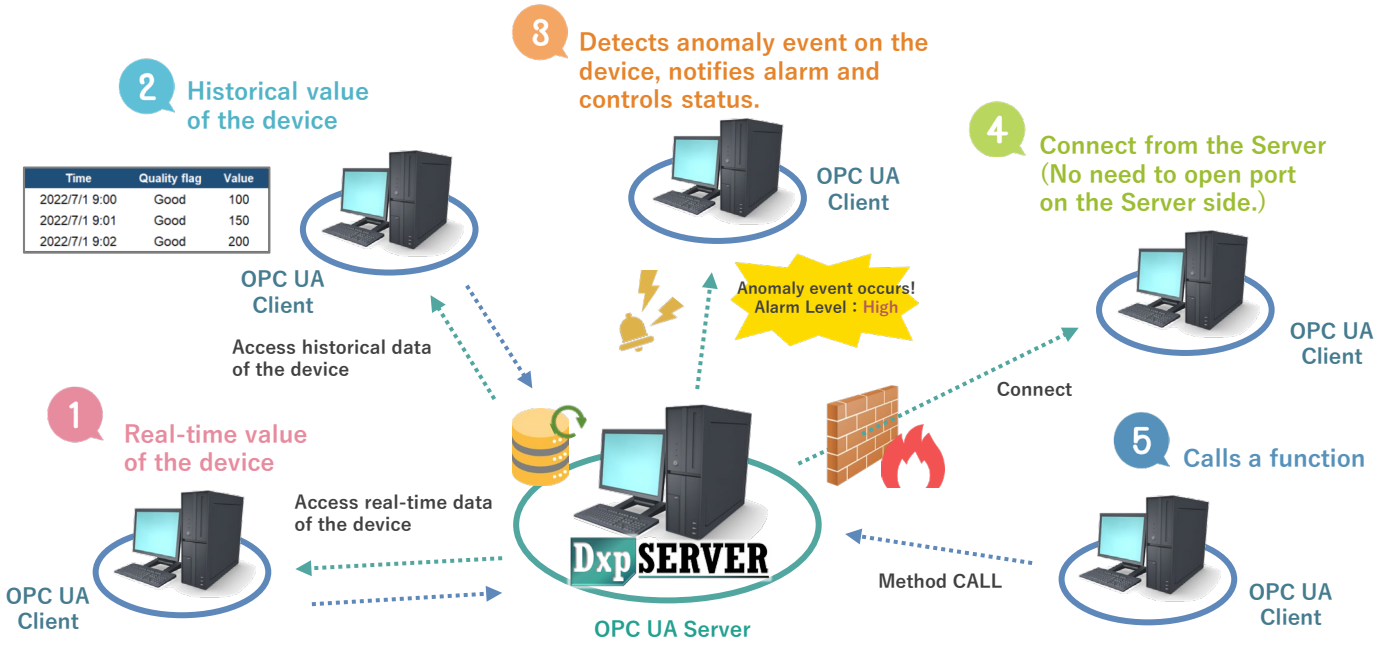
Hot Configuration feature allows you to change settings without stopping the system.

Communication with IT system (OPC, MQTT, HTTP)

●Supports Industrial Standard "OPC UA"

DeviceXPlorer supports industrial standard OPC UA protocol, as well as various OPC UA specifications for utilizing production facility data.

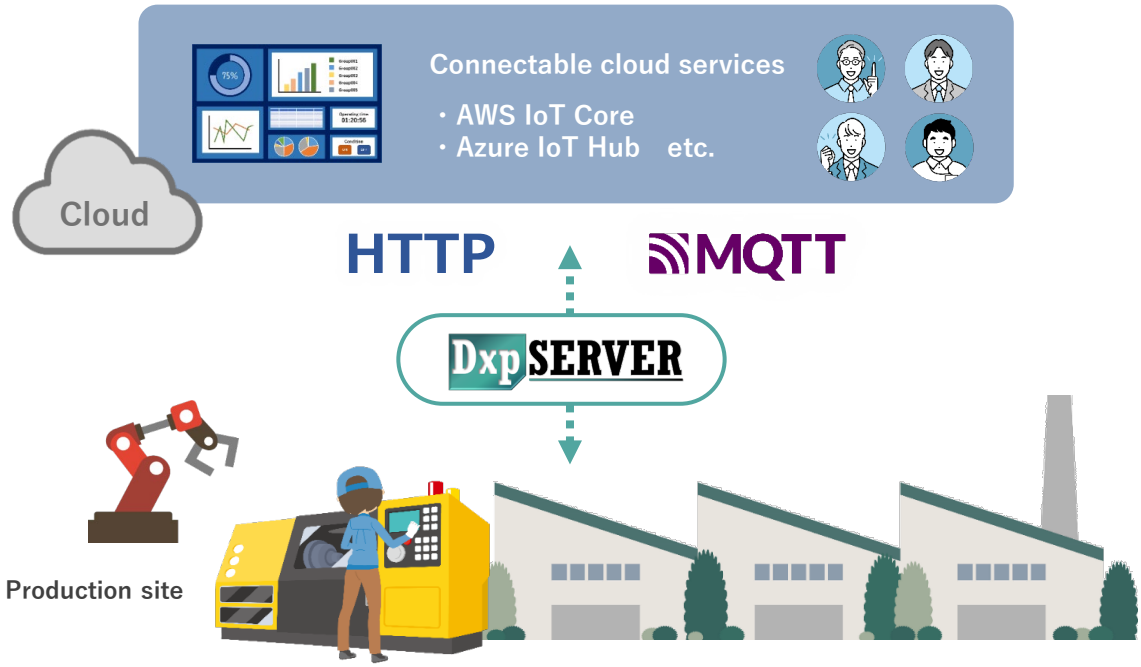
1 Data Access (Real-time value) | 2 Historical Access (Historical value) | 3 Alarm&Condition (Alarm notification) | 4 Reverse Connect (Connect from server) | 5 Method (Calls a function)



*Historical Access and Alarms & Conditions server functions are limited to Professional Edition. Please see "P.9 Editions".

●Supports connection to the cloud (MQTT/HTTP)

DeviceXPlorer supports MQTT and HTTP, general communication protocols for cloud services.



*MQTT and HTTP functions are limited to Professional Edition. Please see "P.9 Editions".

Features

Variety of connectivity

Check out the full connectivity list on our website

https://www.faweb.net/en/product/opc/plc/supportlist

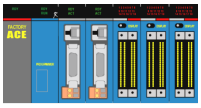
DeviceXPlorer enables connection to **more than 400 series/100 vendors devices,** including PLCs, Robots and processing machines.

MITSUBISHI

JTEKT

OMRON

YOKOGAWA



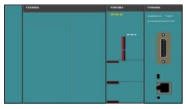
HITACHI

SHARP

FUJI

KEYENCE

TOSHIBA



PANASONIC

IAI

YASKAWA

SIEMENS

ROCKWELL

LSIS

GE

FANUC

SHIBAURA

Modbus Supported

- AZBIL
- IAI
- MG
- OMRON
- IDEC
- KOYO
- WAGO
- MTT
- PHOENX CONTACT
- HAKKO
- ANYWIRE
- MOXA
- EUROTHERM
- COGNEX
- HIOKI
- HITACHI
- YOKOGAWA
- DELTA
- RKC INSTRUMENT
- CHINO
- MITSUBISHI
- PANASONIC
- CODESYS
- GRAPHTEC
- PATLITE
- IFM ELECTRONICS

Robot・NC(CNC)

- MITSUBISHI
- KAWASAKI
- YASKAWA
- FANUC
- YAMAHA
- SHIBAURA
- IAI
- SANYO
- EPSON

MACHINE

- SUMITOMO HEAVY INDUSTRIES
- JAPAN STEEL WORKS

Server Function

- OPC UA
- OPC DA/AE
- Modbus/TCP
- SuiteLink

RFID/BCR

- MITSUBISHI
- OMRON
- KEYENCE
- COGNEX

Open Network

- MTConnect
- SLMP
- IEC60870
- IEC61850
- EtherNet/IP
- BACnet/IP
- User Protocol
- CC-Link
- DNP3.0
- OPC UA
- OPC DA
- MQTT
- DDE
- ODBC

Energy-saving Equipment

- EcoServerIII
- E-Energy
- EcoMonitorLight

Simple setting

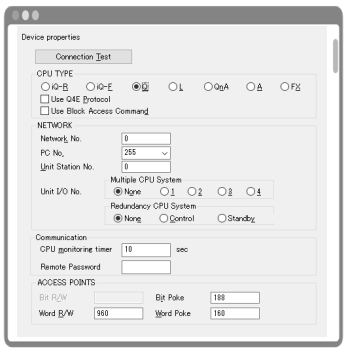
The setting is easy to configure.

To access data of devices, you only need to follow the 3 steps as below.

1 Port setting

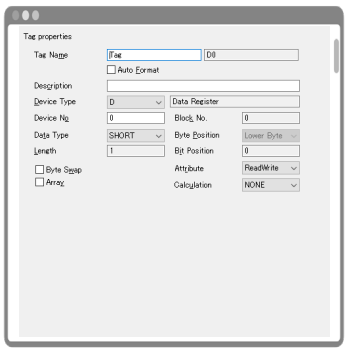
IP address, Port number etc.

2 Device setting



CPU model, network parameter etc.

3 Tag setting



Data address, data type etc.

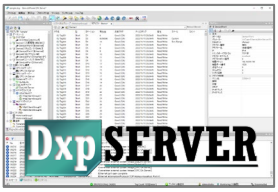
Check out the setting procedure

https://www.youtube.com/@faweb_en

Support 24 hours full operation

DeviceXPlorer utilizes a Hot Configuration function.
This allows you to change settings **without stopping a running system.**
It is ideal for the systems which require continuous operation.





Change setting during operation

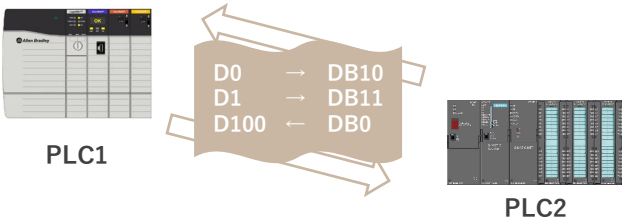
SCADA etc.

Multilingual

DeviceXPlorer supports **multiple display languages.**
Japanese / English / Korean /
Chinese (Simplified /Traditional)

Data bridge

Data can be exchanged simply between devices from different vendors, **just by selecting source and destination tags.**

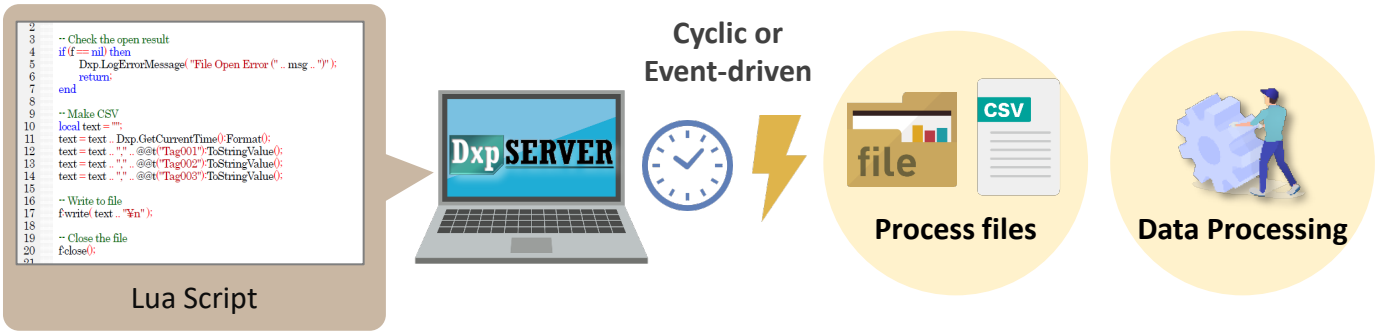


PLC1

PLC2

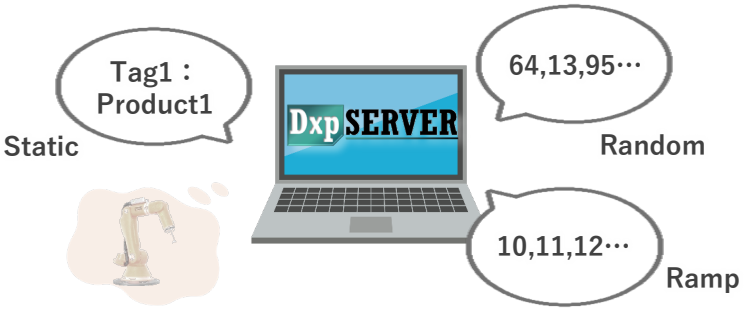
Script

The interpreted language "Lua" can be used to embed custom logics in DeviceXPlorer.
Embedded custom logics can be executed with periodic or event-driven timing.
e.g. File input/output, data processing, data bridging between different devices..



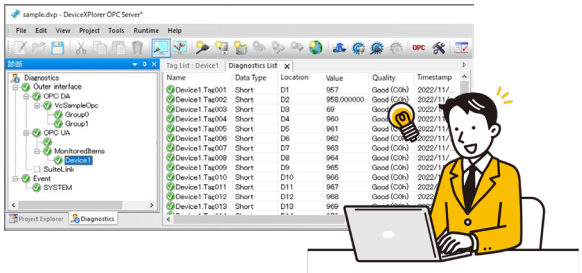
Simulation

DeviceXPlorer is equipped with a simulation function that generates simulation data for tag values.
Systems can be debugged without an actual device.



Diagnostic function

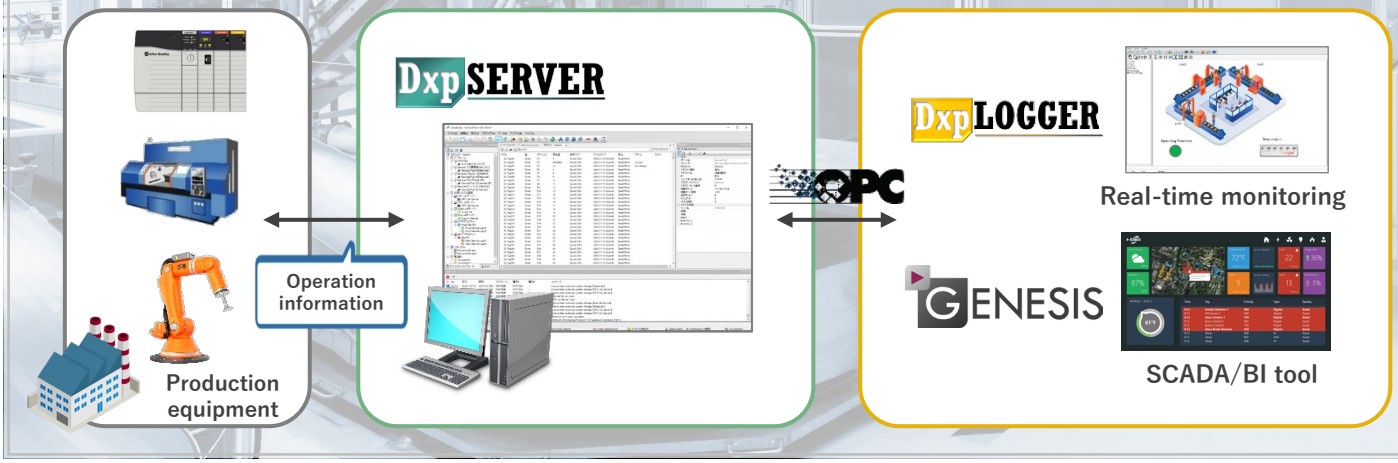
Real-time status can be checked for the connection to the device and communication with the system.



Case Study

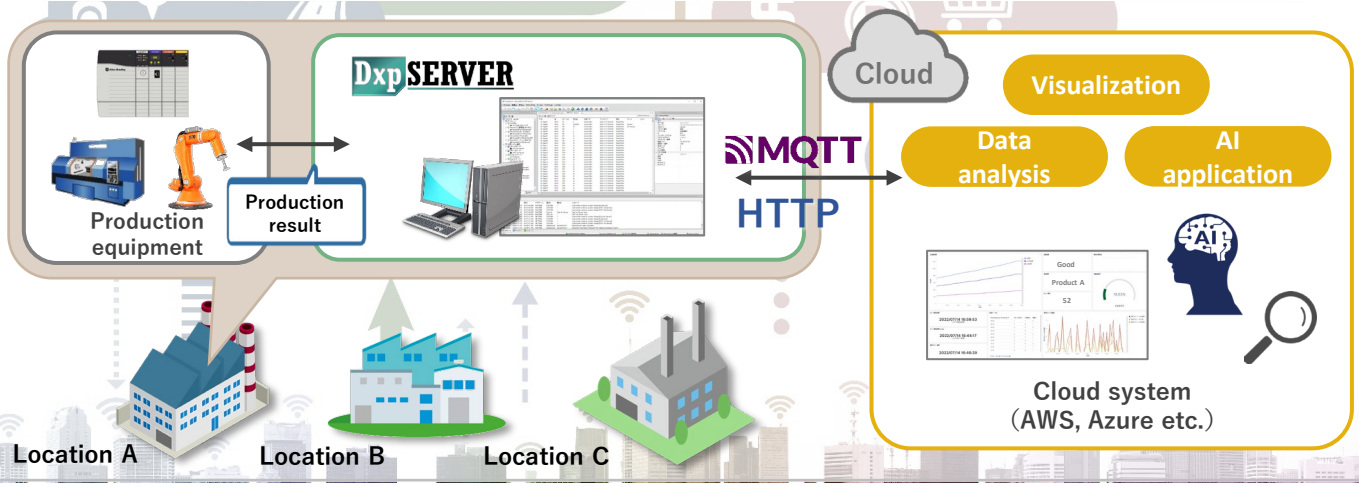
Monitoring the equipment

- DeviceXPlorer enables visualization of the data in equipment used together with SCADA and BI tool.
- You can monitor equipment operating status in production sites in real-time and immediately detect anomaly events.



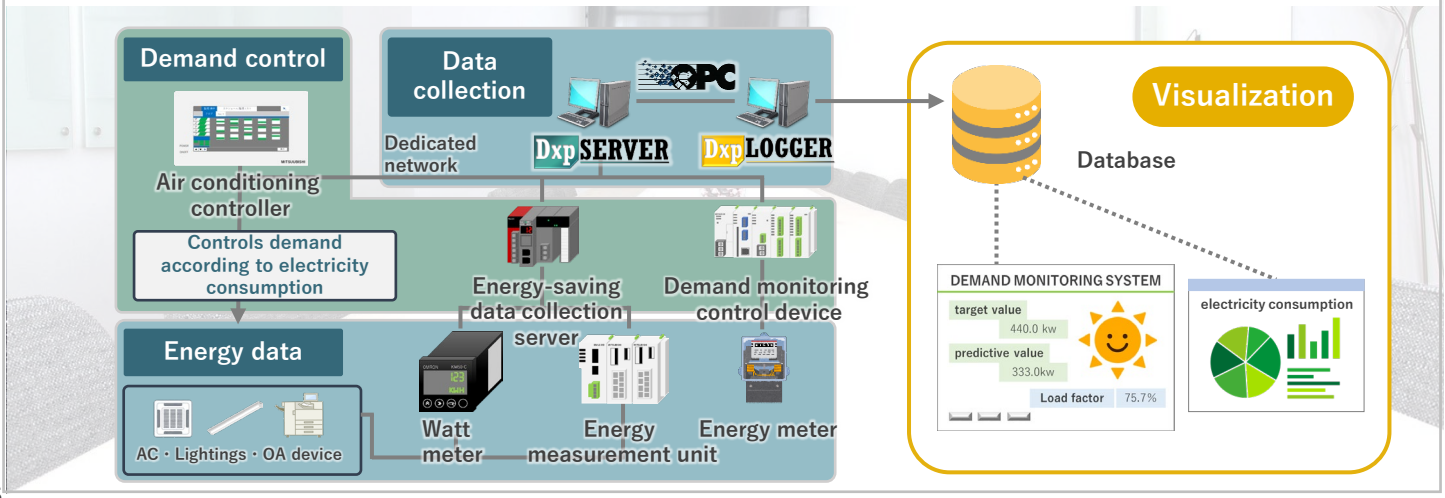
Connection to cloud

- DeviceXPlorer uploads data from production equipment to cloud systems via MQTT/HTTP protocol.
- It enables centralization of data across locations by collecting data in the cloud.



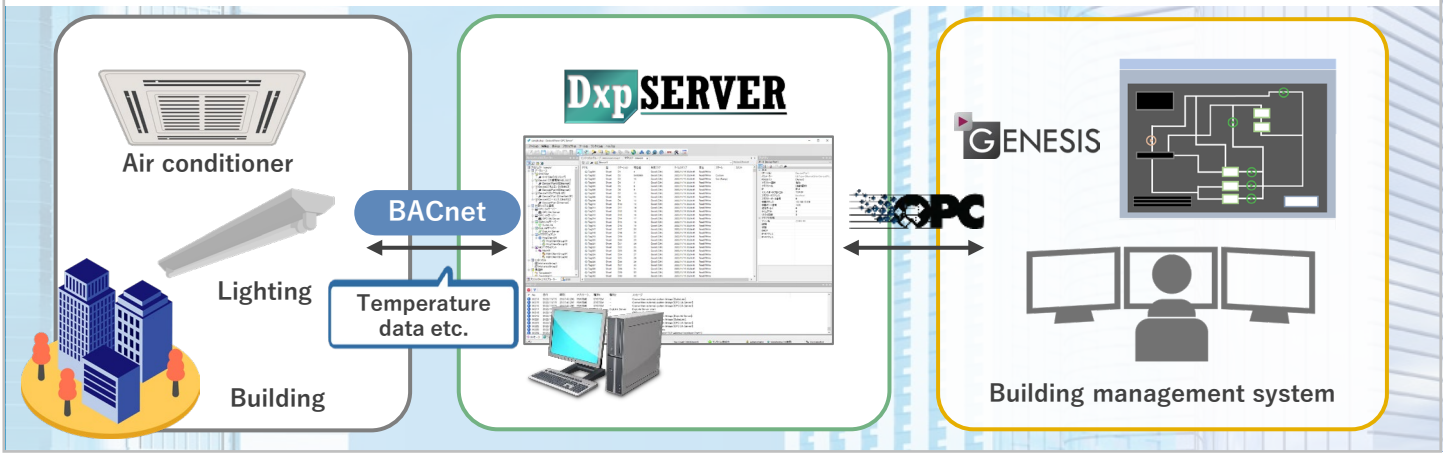
Energy Visualization

- DeviceXPlorer enables real-time visualization of electricity consumption in offices and buildings.
- It collects the data to a database by using together with data logging software DeviceXPlorer Data Logger.



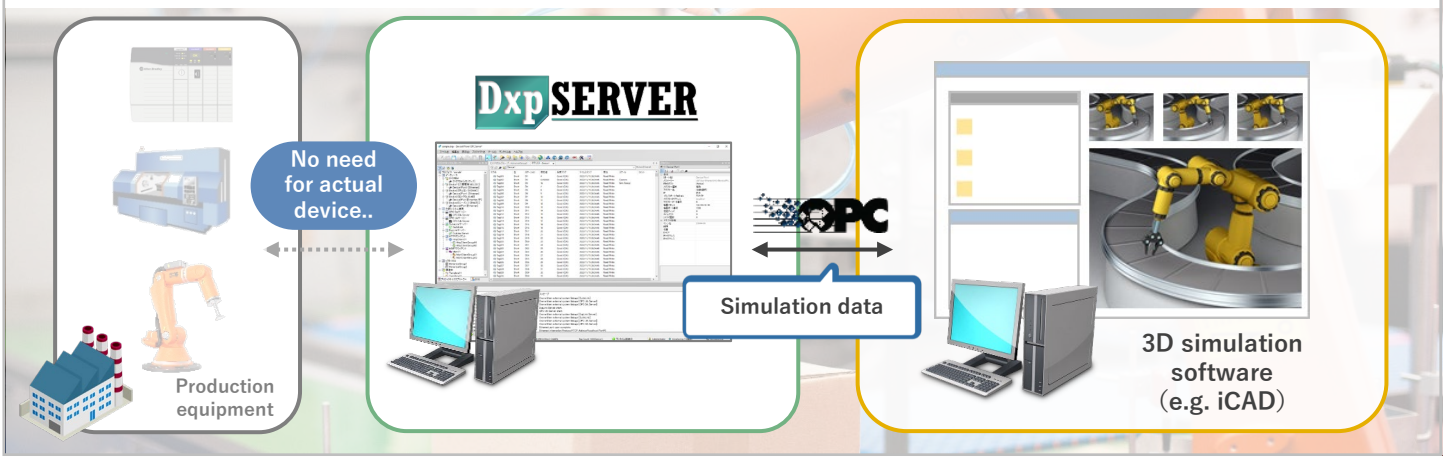
Building management

- DeviceXPlorer enables integration of system with BACnet, a standard protocol in building automation.
- It allows monitoring status of facilities such as air-conditioning and lighting, and also supports control scheduling functions.



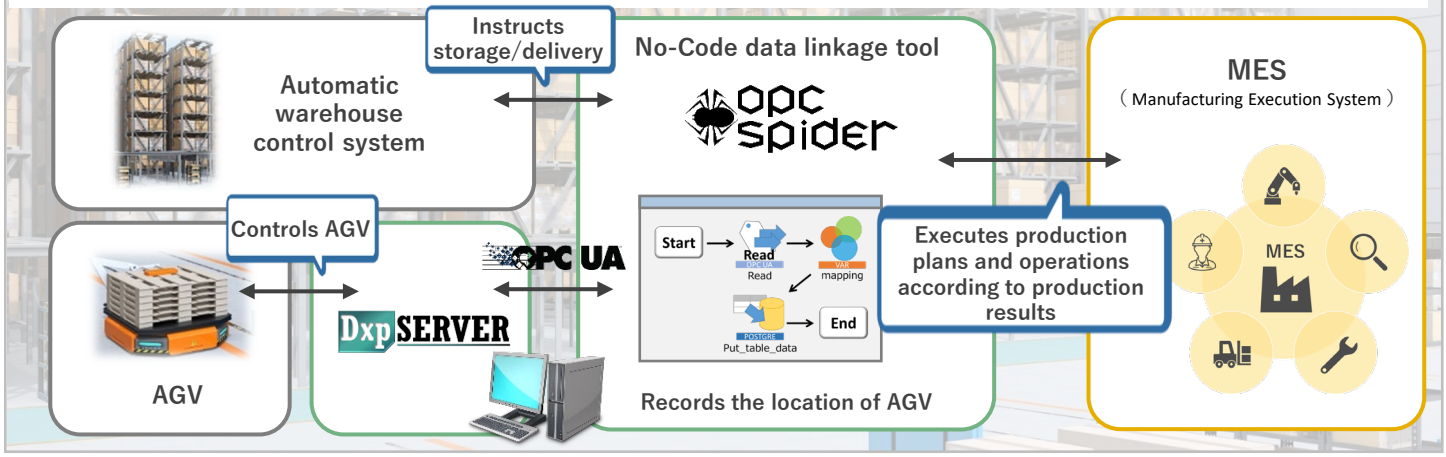
3D Simulation

- DeviceXPlorer connects production equipment and 3D simulation software via OPC.
- It enables interference checks, operation simulations prior to actual operation, as well as simulations to reproduce error status when it occurs.



Inventory control

- DeviceXPlorer enables connection to AGVs, automated warehouses and MES systems.
- It automates the control of AGVs based on the production plan, instructs the automated warehouse for storage and delivery of goods, and updates the production results in the inventory management system.



Specifications

Item		Description
OS		Windows 11(21H2/22H2/23H2/24H2)*1 Windows 11 Enterprise LTSC 2024 Windows 11 IoT Enterprise LTSC 2024 Windows 10 IoT Enterprise LTSC 2021 Windows 10 IoT Enterprise LTSC 2019 Windows 10 IoT Enterprise LTSB 2016 Windows 10(1809/1903/1909/2004/20H2/21H2/22H2)*1 Windows Server 2025/2022/2019/2016
Application Type*2		32-bit application(Win32/x86), 64-bit application(Win64/x64)
Hard Disk		1GB or more
Memory		1GB or more
Framework		.NET Framework 3.5(32-bit edition only)
License		1 license required per installed PC (Unrelated to the number of OPC Client connections)
Protection		License is protected by Serial number and License Key(software or hardware key)
Operating Mode		As a normal application or a Windows service program
Max. Connections*3		255
Max. Tags		Unlimited
Support Protocol for External System		OPC UA1.04, OPC DA3.0/2.05A, OPC AE1.10, SuiteLink*2, DxpLink, HTTP*4, MQTT*4, Modbus/TCP Server*5
Simulation Mode		Random, Ramp(Increment), Sine curve, Shared Memory (Static)
Language		Japanese, English, Korean, Simplified Chinese, Traditional Chinese
OPC UA Interface	Function Type	Server/Client
	Profile	Standard UA Server Profile Historical Raw Data Server Facet*4 Historical Data Insert Server Facet*4 Historical Data Update Server Facet*4 Historical Data Replace Server Facet*4 A&C Base Condition Server Facet*4 A&C Refresh2 Server Facet*4 A&C Address Space Instance Server Facet*4 A&C Enable Server Facet*4 A&C Acknowledgeable Alarm Server Facet*4 A&C Alarm Server Facet*4 A&C Exclusive Alarm Server Facet*4 A&E Wrapper Facet*4 Reverse Connect Client Facet
	Endpoint URI	opc.tcp://[IP address or machine name]:52250
	Security Mode	None, Sign, SignAndEncrypt
	Security Policy	None, Basic128Rsa15, Basic256, Basic256Sha256, Aes128Sha256RsaOaep, Aes256Sha256RsaPss
	User Authentication	Anonymous, User Name/Password, X509 User Certificate
OPC UA Pub/Sub Interface*6	Transport Profile	http://opcfoundation.org/UA-Profile/Transport/pubsub-udp-uadp
OPC DA Interface	Function Type	Server/Client
	PROG.ID	Takebishi.Dxp.7
	OPC Item ID	Use delimiters to specify device, group and tag names.
SuiteLink*2	Application Name	Any (default: “DXPV7”)
	Topic name	Any (default: “Device1”)
HTTP(S) Client (Ver.1.1)	HTTP Authentication	None, basic authentication, digest authentication OAuth2.0 authorization (only ROPC)
	HTTP Method	GET, PUT, POST, DELETE, OPTIONS, HEAD, TRACE
	Proxy Server	Supported (username/password authentication also supported)
MQTT(S) Client (Ver3.11)	Messaging System	Publish / Subscribe
	Protocol	TCP (WebSocket not supported)
	Authentication	Username/password, TLS authentication
	Other Function	QoS0/1/2, Retain/Will, TLS/SSL

*1 We are recommend using Windows Pro Edition or above as Windows Update type is fixed at "Current Branch“ (update is performed automatically).
*2 64-bit application version does not support the following communications, please use 32-bit application version for the following:
- MELSEC EZSocket/GOT connection
- SYSMAC FinsGateway/SysmacGateway/CX-Compolet connection
- TOYOPUC CPU Port connection
- FANUC FOCAS connection
- Mitsubishi CNC EZSocketNc connection
- SuiteLink interface

*3 Communication performance decreases in proportion to the number of devices and tags to be accessed.
*4 These functions are available in Professional Edition.
*5 We provide "OPC DA/UA client" and "Modbus/TCP server" as data sources (a function to connect with devices).
*6 We provide is a beta version. Please contact us if you require this function.

Editions

Supported devices

Refer to the list of supported devices on the following website.

https://www.faweb.net/en/product/opc/plc/supportlist

Editions

We offer three lineups, Single, Multi, and Professional, according to system requirements.

Edition	Professional Edition functions*	Accessible devices
Professional	✓	All devices
Multi	N/A	All devices
Single	N/A	1 vendor devices

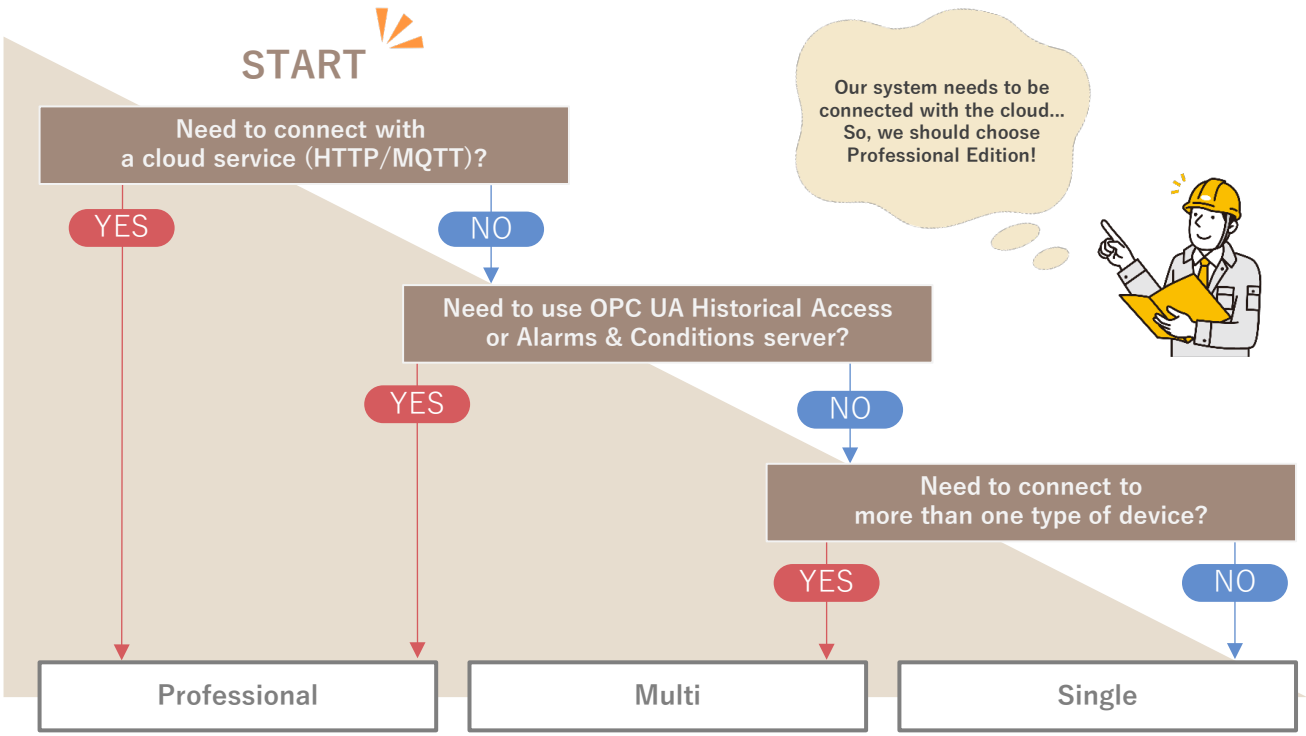
* Professional Edition functions are: MQTT Client, HTTP Client, OPC UA Historical Access server, and OPC UA Alarms & Conditions server functions.

Lineups

Edition	License Type	Model
DeviceXPlorer OPC Server V7 Professional edition	Perpetual	DXPV7PR-ICN
	SupportWorX Standard	UPDXPV7PR-ICN-STANDARD
	SupportWorX Premier	UPDXPV7PR-ICN-PREMIER
	SUB365DAY	DXPV7PR-ICN-365DAY
DeviceXPlorer OPC Server V7 Multi edition	Perpetual	DXPV7ML-ICN
	SupportWorX Standard	UPDXPV7ML-ICN-STANDARD
	SupportWorX Premier	UPDXPV7ML-ICN-PREMIER
	SUB365DAY	DXPV7ML-ICN-365DAY
DeviceXPlorer OPC Server V7 Single edition	Perpetual	DXPV7SG-ICN
	SupportWorX Standard	UPDXPV7SG-ICN-STANDARD
	SupportWorX Premier	UPDXPV7SG-ICN-PREMIER
	SUB365DAY	DXPV7SG-ICN-365DAY

- SupportWorX Standard provides e-mail technical support + Hotfixes + Minor upgrades.
- SupportWorX Premier provides e-mail technical support + Hotfixes + Minor upgrades + Major upgrades.
- SUB365DAY provides 365 Day Subscription + SupportWorX Standard.

How to select the Edition



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