



DeviceXPlorer OPC Server

User's Guide

How to upgrade from Ver.5 to Ver.7

Revision 1

Sep 2025

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1 Overview

This document summarizes precautions when replacing DeviceXPlorer OPC Server Ver.5 to Ver.7.

Notes

Since the licensing architecture is different between Ver.5 and Ver.7, it is necessary to transfer the license to Ver.7. Please contact the sales channel for transferring the license from Ver.5 to Ver.7.

1.1 The differences

The main specification changes are as follows:

No.	Differences	Reference
1	Changes in product lineup	2.1
2	License Protection Method	2.2
3	Changes in Prog.ID for OPC Classic server interface. • OPC Data Access server interface from Takebishi.Dxp.5 to Takebishi.Dxp.7 • OPC Alarms and Events server interface from Takebishi.DxpAe.5 to Takebishi.DxpAe.7	2.3
4	Changes in the default port number for OPC UA server interface from 52210 to 52250.	2.4
5	Changes in the application name for SuiteLink server interface from DXPV5 to DXPV7.	2.5
6	End of Support for DDE Communication	2.6
7	Changes in GUI architecture. • Changes in process architecture • Changes in Common Properties • Changes in Project Explorer • Changes in log specifications	2.7
8	Expands device connectivity.	2.8

1.2 New Features

The main new features are as follows:

No.	New features	Reference
1	IOT interfaces (MQTT and HTTP) are supported in V7 Professional. • MQTT interface • HTTP interface	3.1
2	Supported OPC UA server features are expanded. • OPC UA Historical Accesses (Only in V7 Professional) • OPC UA Alarms and Conditions (Only in V7 Professional) • OPC UA Reverse Connect Client	3.2

New features other than those listed above may include more new features, as they may be added through regular minor version upgrades.

1.3 Important Notes

- Since the licensing architecture is different between Ver.5 and Ver.7, it is necessary to transfer the license to Ver.7. Please contact the sales channel for transferring the license from Ver.5 to Ver.7.
- Project files (*.dxd) of DeviceXPlorer OPC Server are compatible between Ver.5 and Ver.7.
- Application settings (Common Properties) and DCOM settings for OPC Classic interface are managed separately and must be reconfigured.
- Since Ver.5 and Ver.7 are different major versions, they can be installed together on the same PC. However, we recommend uninstalling Ver.5 after the migration to Ver.7 is complete.

2 Details of the differences and how to replace.

2.1 Product lineup

There is a difference in the project lineup between Ver.5 and Ver.7.

Ver.5 Product Lineup

Product name	Applicable PLC	Model	Notes
DXPSV Enterprise OPC Server	Support all devices	DXPSVENT-E	- Enterprise License - Support all devices
DXPSV MELSEC OPC Server	MITSUBISHI MELSEC-Q/L/FX/QnA/ A series, GOT	DXPSVMEL-E	- Standard License - Only 1 maker controller
DXPSV SYSMAC OPC Server	OMRON SYSMAC-NJ/CJ/CS/CP/CV/C series	DXPSVSYSE-E	- Standard License - Only 1 maker controller
DXPSV TOYOPUC OPC Server	JTEKT TOYOPUC-PC10/PC3J/PC2J series	DXPSVTYP-E	- Standard License - Only 1 maker controller
DXPSV FA-M3 OPC Server	YOKOGAWA FA-M3V/FA-M3(R) series	DXPSVFAM-E	- Standard License - Only 1 maker controller
DXPSV HIDIC OPC Server	HITACHI EH/H series	DXPSVHID-E	- Standard License - Only 1 maker controller
DXPSV SATELLITE OPC Server	SHARP Satellite JW series	DXPSVSTL-E	- Standard License - Only 1 maker controller
DXPSV MICREX OPC Server	FUJI MICREX-SX/F series	DXPSVMRX-E	- Standard License - Only 1 maker controller
DXPSV FP OPC Server	PANASONIC FP-X/FP2series	DXPSVPFP-E	- Standard License - Only 1 maker controller
DXPSV MP OPC Server	YASUKAWA MPseries(MEMOBUS)	DXPSVYMP-E	- Standard License - Only 1 maker controller
DXPSV KV OPC Server	KEYENCE KVseries	DXPSVKKV-E	- Standard License - Only 1 maker controller
DXPSV AB OPC Server	Rockwell AB ControlLogix (EtherNet/IP)	DXPSVALB-E	- Standard License - Only 1 maker controller
DXPSV SIMATIC OPC Server	SIEMENS SIMATIC-S7 series	DXPSVSMT-E	- Standard License - Only 1 maker controller
DXPSV LSIS OPC Server	LSIS XGT series	DXPSVLSI-E	- Standard License - Only 1 maker controller
DXPSV CPL OPC Server	AZBIL(CPL) Protocol	DXPSVCPL-E	- Standard License - Only 1 maker controller
DXPSV MODBUS OPC Server	MODBUS/TCP MODBUS/RTU MODBUS/ASCII	DXPSVMDB-E	- Standard License - Only 1 maker controller
DXPSV FANUC OPC Server	FANUC PMCseries	DXPSVGFC-E	- Standard License - Only 1 maker controller
DXPSV RCC OPC Server	KAWASAKI ROBOT CONTROLLER	DXPSVKRC-E	- Standard License - Only 1 maker controller
DXPSV YSR OPC Server	YASKAWA ROBOT CONTROLLER	DXPSVYSR-E	- Standard License - Only 1 maker controller

DXPSV OPCDA OPC Server	(OPCDA3.0/2.05A)	DXPSVOPC-E	- Standard License - Only 1 maker controller
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* All editions of Ver.5 support OPC Classic (Data Access, Alarms and Events) server interface.

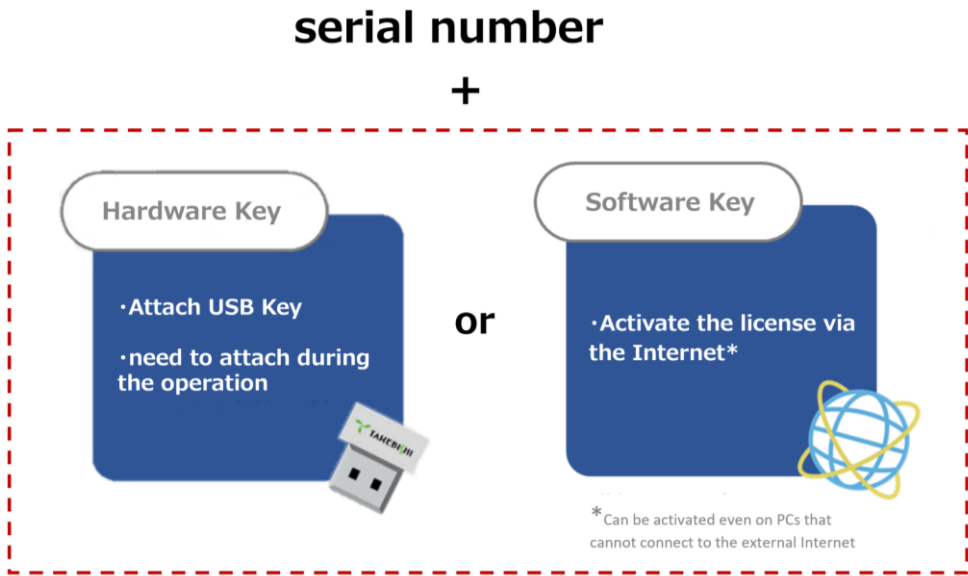
Ver.7 Product Lineup

Edition Name	License Type	Model	Notes
DxpSERVER V7 Professional OPC Server	Perpetual (HW key)	DXPV7PR- HW-E	- All vendor devices communication - OPC UA (Data Access) server interface support - OPC UA (Historical Access) server interface support - OPC UA (Alarms and Conditions) server interface support - MQTT interface support - HTTP interface support
	Perpetual (SW key)	DXPV7PR- SW-E	
	Subscription (1year) (SW key)	DXPV7PR- SS-E	
DxpSERVER V7 Multi OPC Server	Perpetual (HW key)	DXPV7ML- HW-E	- All vendor devices communication - OPC UA (Data Access) server interface support This is equivalent to the Enterprise edition of Ver.5.
	Perpetual (SW key)	DXPV7ML- SW-E	
DxpSERVER V7 Single OPC Server	Perpetual (HW key)	DXPV7SG- HW-E	- Single vendor device communication - OPC UA (Data Access) server interface support This is equivalent to the Standard edition of Ver.5.
	Perpetual (SW key)	DXPV7SG- SW-E	

* All editions of Ver.7 support OPC UA (Data Access) server and OPC Classic (Data Access, Alarms and Events) server interface.

2.2 License Protection Method

Together with the changes to the product lineup, the license protection method has changed to ensure enhanced protection of licenses.
There are two types of License Type/Access Key for each edition.



License Type	Access Key	Notes
Perpetual (Hardware Key)	Hardware Key	·Activate by attaching USB Key to PC ·Need to attach the Key to PC during operation
Perpetual (Software Key)	Software Key	·Node-locked license ·Activate the license via the internet
Subscription (Renewed annually)	Software Key	·Node-locked license ·Activate the license via the internet ·A license activation process is also required when updating.

2.3 OPC Classic server interface

The Prog.ID for OPC Classic server interfaces is changed.

Interface	Ver.5	Ver.7	Notes
OPC Data Access server	Takebishi.Dxp.5	Takebishi.Dxp.7	If you are using the Prog.ID “Takebishi.Dxp” without version, there is no need to change.
OPC Alarms and Events server	Takebishi.DxpAe.5	Takebishi.DxpAe.7	If you are using the Prog.ID “Takebishi.DxpAe” without version, there is no need to change.

2.4 OPC UA server interface

The default port No. for OPC UA server interface is changed.

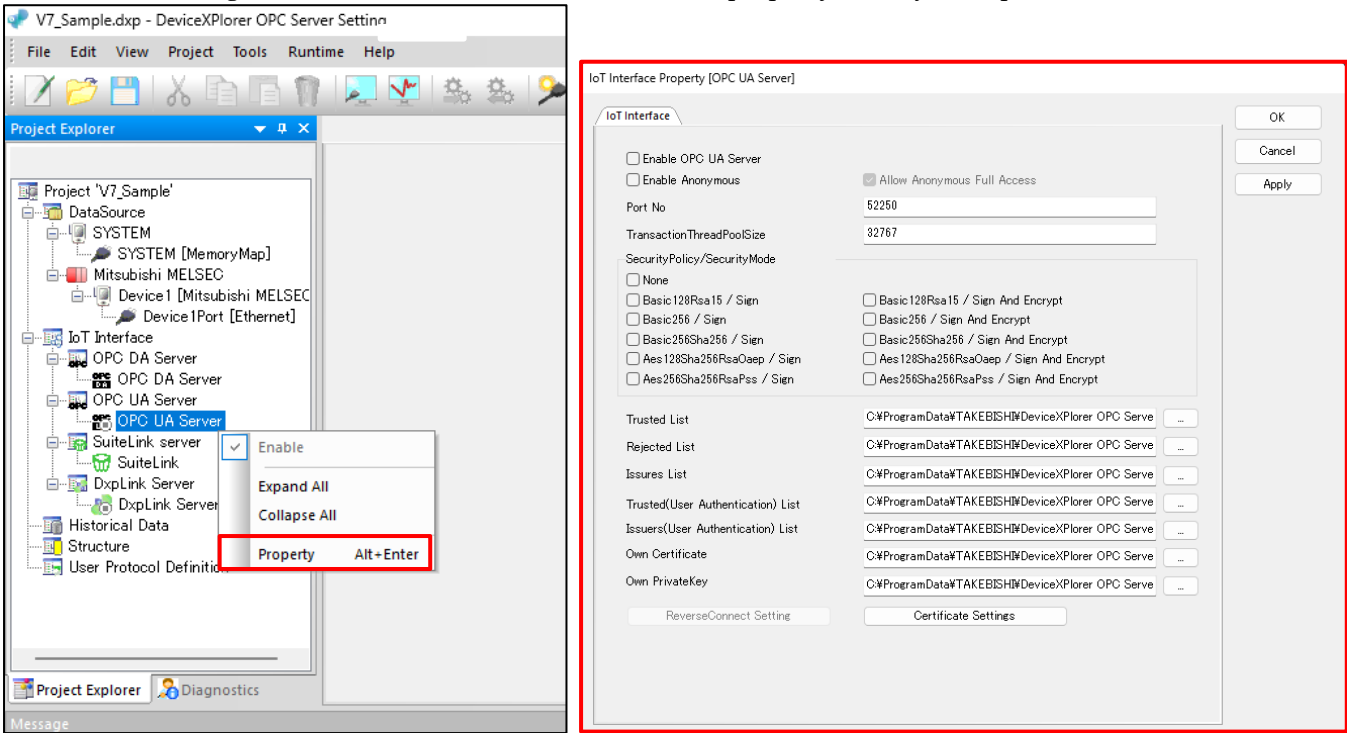
In addition, detailed OPC UA Server settings can be configured.

Use of the OPC UA Configuration tool is no longer required to create the OPC UA certificate.

Interface	Ver.5	Ver.7	Notes
OPC UA server	52210	52250	This port number can be changed in OPC UA server settings.

In Ver.7:

The current settings can be checked in the OPC UA server property in Project Explorer.



2.5 SuiteLink server interface

The default application name for SuiteLink interface is changed.

Interface	Ver.5	Ver.7	Notes
SuiteLink server	DXPSV	DXPV7	This application name can be changed in Common Properties.

In Ver.5:

The current settings can be checked in Common Properties.

Property of V5_Sample

Common Properties | Project Properties

Process Priority	NORMAL
OPC Thread Priority	NORMAL
Start as Service Program	Execute as Normal Application
Namespace Delimiter	.
Extend Tag Delimiter	:
Language	English
Automatic Login User	Administrator
Running Processor Setting	None
OPC	
Update Rate (msec)	500
Timer Tick for Async Update Mode (msec)	10
Return cache in error	Enable
Return success for communication failure at ...	Disabled
Initial DataChange Timeout	15000
OPC UA Server	Enabled
DDE/SuiteLink	
DDE/SuiteLink Application Name	DXPSV
Notify Cache First	Disabled
DxpLink	
DxpLink Sever Function	Enable
DxpLink Port No	9980

OK Cancel Apply

In Ver.7:

The current settings can be checked in Common Properties.

Property of Untitled

Common Properties | Project Properties

General

Start as Service Program	Execute as Normal Application
Running Processor Setting	None
Language	English
SuiteLink Application Name	DXPV7
Connect with the runtime on startup	Enable
Maximum number of log messages to ma...	100000
Startup File	
Setting Tool	
Monitor Rate (msec)	600
Automatic Login User	Administrator
Project file save folder	

OK Cancel Apply

SuiteLink Application Name
Specify application name of SuiteLink Communication. This setting becomes effective after Runtime is restarted.

Notes

This change affects only AVEVA SuiteLink (Wonderware SuiteLink) users.

2.6 End of Support for DDE Communication

The product can no longer be used as a communication driver with DDE supported client products.

Ex.) DDE Communication with Excel (Cell function value reading)

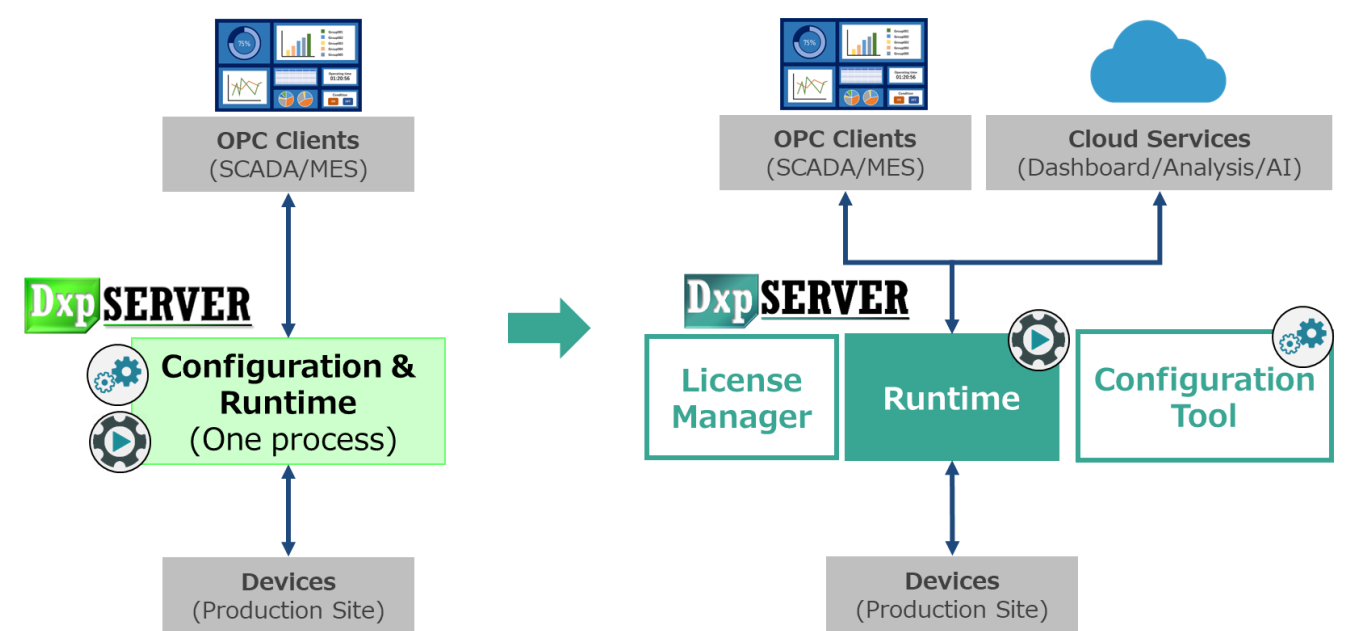
DDE Communication with InTouch

2.7 GUI architecture

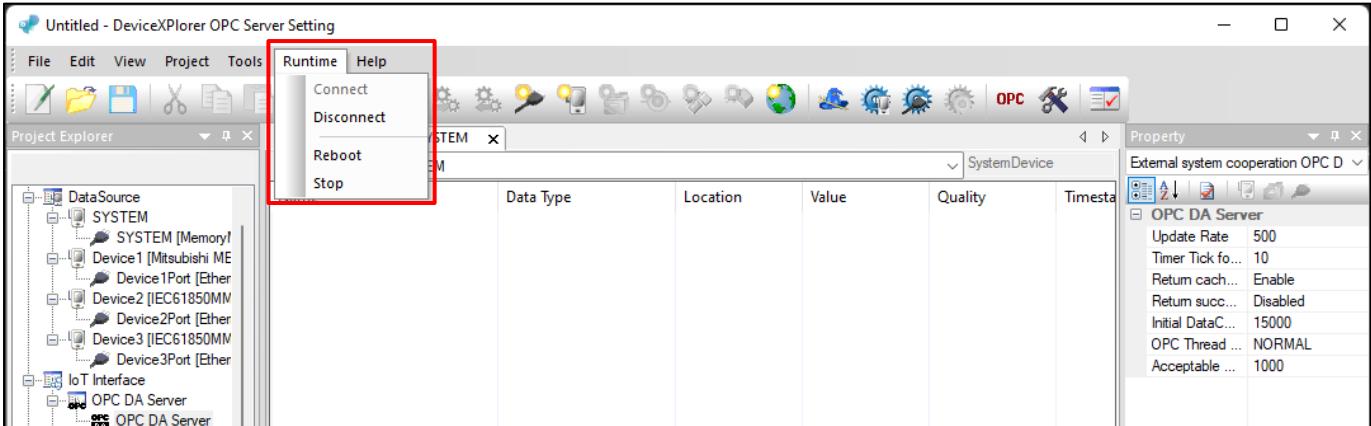
2.7.1 Changes in process architecture

The process architecture has changed.

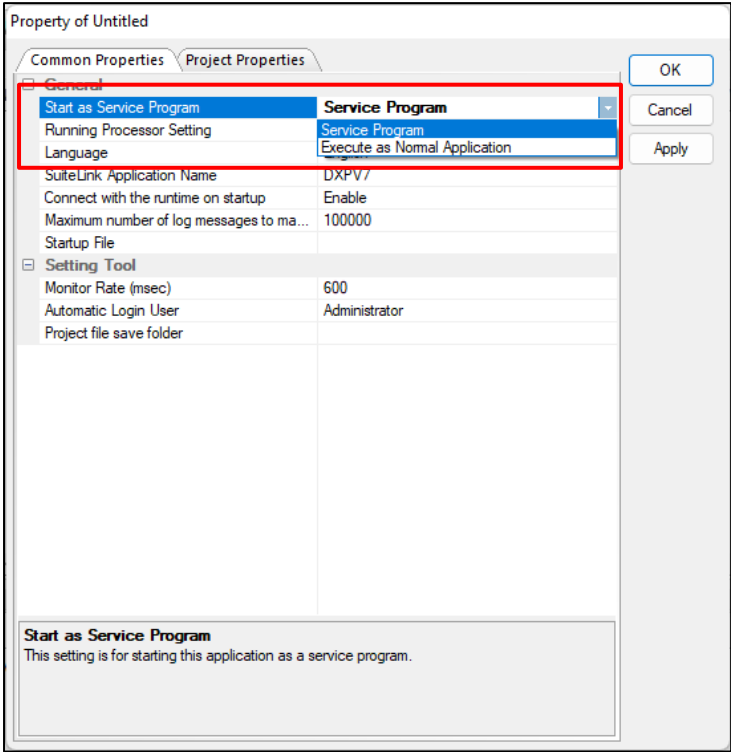
Process in Ver.5	Process in Ver.7	Notes
DeviceXPlorer.exe (DeviceXPlorer OPC Server)	DeviceXPlorer_Setting.exe (DeviceXPlorer OPC Server Setting)	Configuration Tool for DeviceXPlorer OPC Server
	DeviceXPlorer_Runtime.exe (DeviceXPlorer OPC Server Runtime)	Runtime application. Communicates with devices and OPC client applications. It can operate as a normal application or as a Windows service program, depending on the configuration.
	DeviceXPlorer_LicenseManager.exe (DeviceXPlorer OPC Server 7 License Manager)	Runs as a Windows service program and manages licenses and logs.



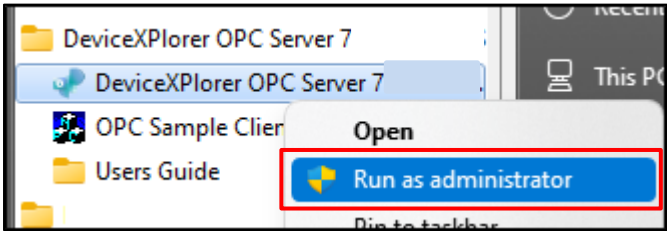
When the Setting tool is launched, the Runtime starts as a normal application.
Setting tool can connect/disconnect/reboot the Runtime in [Runtime] menu.



The Runtime process option can be changed in Common Properties.



To change the Runtime process option, you need to launch the Setting tool with “Run as administrator” menu and reboot the Runtime.



To change the Runtime to a Windows Service Program, the Runtime must be launched with elevated privilege in the procedure described above.

You can check the status in [Elevated] column of Task Manager.

Task Manager								
File Options View								
Processes Performance App history Startup Users Details Services								
Name	PID	Status	User name	CPU	Memory (a...	Archite...	Elevated	Description
DeviceXPlorer_LicenseManager.exe	23756	Running	SYSTEM	00	4,372 K	x86	Yes	DeviceXPlorer...
DeviceXPlorer_Runtime.exe	15580	Running	Yoshito.Kis...	00	16,896 K	x86	No	DeviceXPlorer...
DeviceXPlorer_Setting.exe	15696	Running	Yoshito.Kis...	00	63,428 K	x86	Yes	DeviceXPlorer...
DiagsCap.exe	3356	Running	SYSTEM	00	244 K	x64	Yes	DiagsCap.exe

Notes

Depending on the Runtime process option, appropriate DCOM settings in Windows are required for the OPC Classic interface communication.

2.7.2 Change in Common Properties

The location of the settings in Common Properties of Ver.5 has changed.

General	Ver.7
Auto Port Close	Project
Acceptable Max Count of Async Demand (Common)	Project
Acceptable Max Count of Async Demand (OPC)	OPC DA Server
Maximum number of asynchronous requests accepted (SuiteLink)	SuiteLink Server
Protocol Timer TICK (msec)	Project
Monitor Rate (msec)	Common
Project file save folder	Common
Startup File	Common
Process Priority	Project
Start as Service Program	Common
Namespace Delimiter	Project
Extend Tag Delimiter	Project
Language	Common
Automatic Login User	Common
Running Processor Setting	Common

OPC	Ver.7
Update Rate (msec)	OPC DA Server in Project Explorer
Timer Tick for Async Update Mode (msec)	OPC DA Server in Project Explorer
Return cache in error	OPC DA Server in Project Explorer
Return success for communication failure at reading	OPC DA Server in Project Explorer
Initial DataChange Timeout	OPC DA Server in Project Explorer
OPC UA Server Setting	OPC UA Server in Project Explorer
OPC UA Client Setting	OPC UA Client Port setting
OPC UA Publisher Settings	OPC UA Server in Project Explorer

SuiteLink	Ver.7
SuiteLink Application Name	SuiteLink Server in Project Explorer
Notify Cache First	SuiteLink in Project Explorer

DxpLink	Ver.7
DxpLink Server Function	DxpLink Server in Project Explorer
DxpLink Port No	DxpLink Server in Project Explorer

Common Properties:

Property of V5_Sample

Common PropertiesProject Properties

General

Auto Port Close

Close

Acceptable Max Count of Async Demand (...)

1000

Acceptable Max Count of Async Demand (...)

1000

Acceptable Max Count of Async Demand (...)

10000

Protocol Timer TICK (msec)

10

Monitor Rate (msec)

600

Project file save folder

Startup File

Process Priority

NORMAL

OPC Thread Priority

NORMAL

Start as Service Program

Execute as Normal Application

Namespace Delimiter

.

Extend Tag Delimiter

.

Language

English

Automatic Login User

Administrator

Running Processor Setting

None

OPC

Update Rate (msec)

500

Timer Tick for Async Update Mode (msec)

10

Return cache in error

Enable

Return success for communication failure ...

Disabled

Initial DataChange Timeout

15000

OPC UA Server

Enabled

OK

Cancel

Apply

Ver.5

Property of V7_Sample

Common PropertiesProject Properties

General

Start as Service Program

Execute as Normal Application

Running Processor Setting

None

Language

English

SuiteLink Application Name

DXPV7

Connect with the runtime on startup

Enable

Maximum number of log messages to ma...

100000

Startup File

C:\Users\seigi\Documents\V7_Sample.dxp

Setting Tool

Monitor Rate (msec)

600

Automatic Login User

Administrator

Project file save folder

OK

Cancel

Apply

Ver.7

Project Properties:

Property of V5_Sample

Common PropertiesProject Properties

General

Reflect Poke

Reflect cache memory after writing

The Priority of the Writing in processing

Enable

Communication per Client

Disabled

Multi Access Mode

Enable

Async Update Mode

Enable

Multi Access for Sync Async

Disable

Write Optimization Type

Request Order

Reduce write-queue

Omit same value

Simulation Max

100

Simulation Cycle

1000

Write non-numeric values

Disalbe

Skip bridging for tag which is bad quality

Does not skip bridging

Reset of the System Tag(Statistics)

(None)

Script GarbageCollection

5000

GUI

Writing Tag Value From GUI

Permit Writing

Keep Monitor Value

Keep

TaskTray

Not Put in

Max Display Message

1000

Enable Unknown ItemID

Enable

Auto Add Item

Not Add

Display System Tag

Hide

OK

Cancel

Apply

Ver.5

Property of V7_Sample

Common PropertiesProject Properties

General

Reflect Poke

Reflect cache memory after writing

The Priority of the Writing in processing

Enable

Communication per Client

Disabled

Multi Access Mode

Enable

Async Update Mode

Enable

Multi Access for Sync Async

Disable

Multi Access Method for Sync Async

Read/Write

Write Optimization Type

Request Order

Reduce write-queue

Omit same value

Simulation Max

100

Simulation Cycle

1000

Write non-numeric values

Disalbe

Skip bridging for tag which is bad quality

Does not skip bridging

Reset of the System Tag(Statistics)

(None)

Script GarbageCollection

5000

Auto Port Close

Close

Acceptable Max Count of Async Deman...

1000

Protocol Timer TICK (msec)

10

Process Priority

NORMAL

Namespace Delimiter

.

Extend Tag Delimiter

.

GUI

Writing Tag Value From GUI

Permit Writing

OK

Cancel

Apply

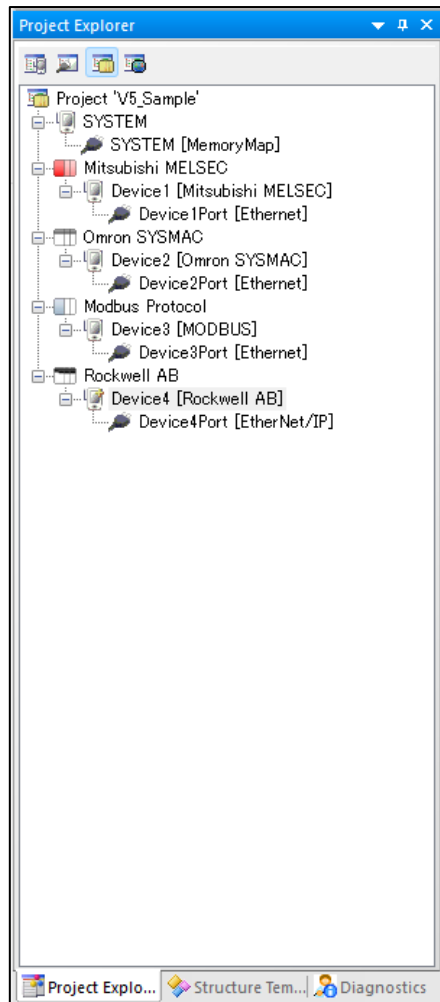
Ver.7

2.7.3 Changes in Project Explorer

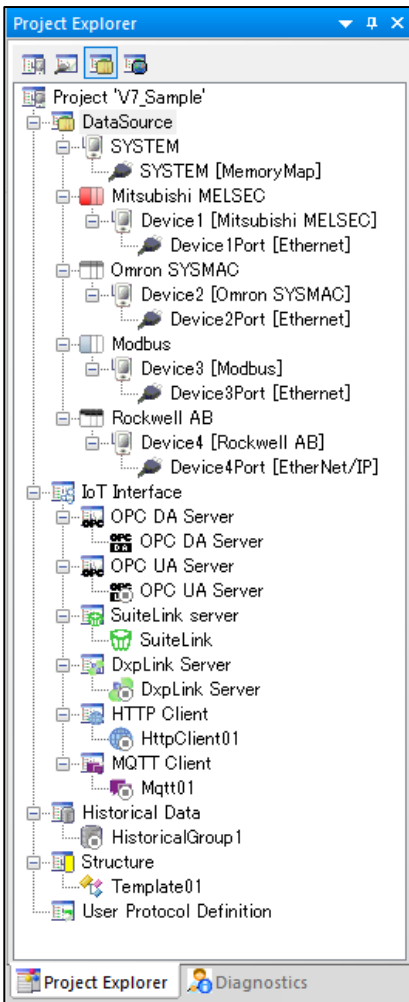
Project Explorer in Ver.7 supports IoT interface configuration tree, not only Data Source tree.

- The Structure Template tab has been removed and integrated into Project Explorer.
- Some settings such as OPC server settings, have been integrated from Common Properties to Project Explorer.

In Ver.5:

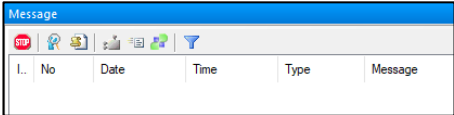
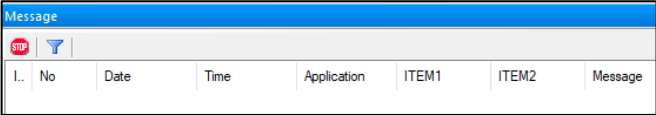
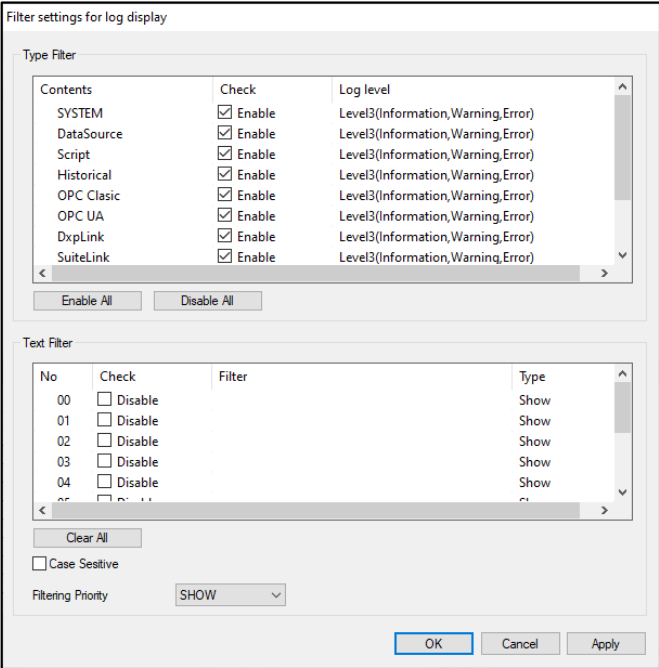


In Ver.7:



2.7.4 Changes in log specifications

Log specifications have changed.

Item	Ver.5	Ver.7
Overview	There are two different settings between the log file output settings and the Message View settings. There is no relationship between the two setting.	Log messages are stored in the internal log database according to the log output level setting in Project Properties. From the internal log database, log messages can be output to LOG files or displayed in the Message View.
Common Properties	N/A	Internal log database settings. The number of messages to be stored in the internal log database can be specified in "Maximum number of log messages to manage".
Project Properties	Log file output settings. Only output or not can be specified for each type of log message.	Log file output settings. - The output level for each type of log message can be specified. - Added "Message view update cycle (msec)" to specify the update interval between the internal log database and the Message View.
Message View	Use each log icon to switch output messages displayed in the Message View. Message View: 	Use Log Filter to control log messages displayed in the Message View. Message View:  Log Filter:  The [Clear] menu in the Message View is used for a temporary clearing of log messages from the Message View and the log messages will reappear after restarting the Setting Tool.

In Ver.5:
Project Properties:

Property of V5_Sample

Common Properties

Project Properties

Enable Unknown ItemID	Enable
Auto Add Item	Not Add
Display System Tag	Hide
Starting Window Style	Last Style
OCM Starting Window Style	Minimize

Log

Auto Message Save	Not Save
Term of Keeping Message Log (Day)	0
Stop Disk Size (MB)	1000
Max File Size of Message Log (MB)	99
File Path of Saving Message Log	
Output Information Message	Output
Output Warning Message	Output
Output ERROR Message	Output
Output FATAL ERROR Message	Output
Dump Script Log	Not Output
Output Communication Message	Not Output
Output DxpLink Trace	Not Output
Output DDE/SuiteLink Trace	Not Output
Output OPC Interface Access Message	Not Output
Detail OPC Message	Disable

OK

Cancel

Apply

Message

STOP

?

🔍

📄

🔍

🔍

I..	No	Date	Time	Type	Message

Message

Monitor(1)

In Ver.7:
Common Properties:

Property of V7_Sample

Common Properties

Project Properties

General

Start as Service Program

Execute as Normal Application

Running Processor Setting

None

Language

English

SuiteLink Application Name

DXPV7

Connect with the runtime on startup

Enable

Maximum number of log messages to ma...

100000

Startup File

Setting Tool

Monitor Rate (msec)

600

Automatic Login User

Administrator

Project file save folder

OK

Cancel

Apply

Maximum number of log messages to manage

Specifies the maximum number of log messages to manage.
(Range: 100-999999)

Project Properties:

Property of V7_Sample

Common Properties

Project Properties

GUI

Extend Tag Delimiter

:

Writing Tag Value From GUI

Permit Writing

Keep Monitor Value

Keep

Task Tray

Not Put in

Max Display Message

1000

Message view update cycle (msec)

50

Enable Unknown ItemID

Enable

Auto Add Item

Not Add

Display System Tag

Hide

Starting Window Style

Last Style

COM Starting Window Style

Minimize

Log

Auto Message Save

Save

Term of Keeping Message Log (Day)

0

Stop Disk Size (MB)

1000

Max File Size of Message Log (MB)

99

File Path of Saving Message Log

C:\Data\DXPLog

System log output level

Level3(Information,Warning,Error)

DataSource communication output level

Level3(Information,Warning,Error)

Script log output level

Level3(Information,Warning,Error)

Historical log output level

Level3(Information,Warning,Error)

OPC Classic communication output level

Level3(Information,Warning,Error)

OPC UA communication output level

Level3(Information,Warning,Error)

OK

Cancel

Apply

GUI

Message View:

Message

STOP

I..

No

Date

Time

Application

ITEM1

ITEM2

Message

Message

Watch(1)

Monitor(1)

Log Filter:

Filter settings for log display

Type Filter

Contents

Check

Log level

SYSTEM

☒ Enable

Level3(Information,Warning,Error)

DataSource

☒ Enable

Level3(Information,Warning,Error)

Script

☒ Enable

Level3(Information,Warning,Error)

Historical

☒ Enable

Level3(Information,Warning,Error)

OPC Classic

☒ Enable

Level3(Information,Warning,Error)

OPC UA

☒ Enable

Level3(Information,Warning,Error)

DxpLink

☒ Enable

Level3(Information,Warning,Error)

SuiteLink

☒ Enable

Level3(Information,Warning,Error)

Enable All

Disable All

Text Filter

No

Check

Filter

Type

00

☐ Disable

Show

01

☐ Disable

Show

02

☐ Disable

Show

03

☐ Disable

Show

04

☐ Disable

Show

05

☐ Disable

Show

Clear All

☐ Case Sensitive

Filtering Priority

SHOW

OK

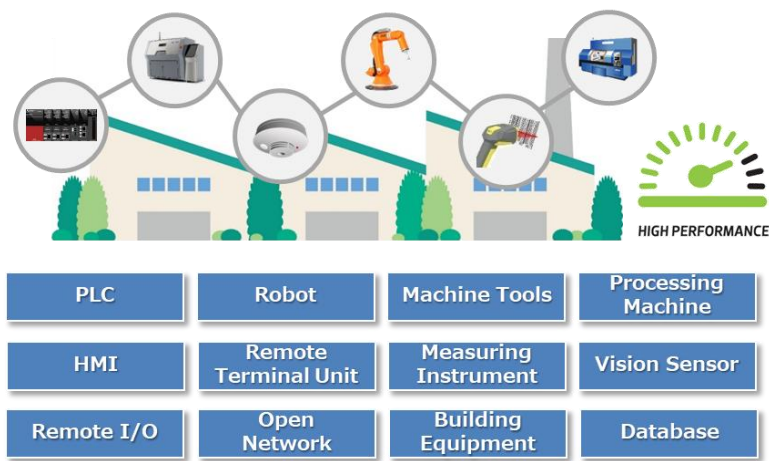
Cancel

Apply

2.8 Device connectivity

Supported devices/protocols have been expanded to over 400 series devices from 100 vendors. Supported devices and protocols will be changed with each version upgrade. For the latest supported models, please refer to the manual or the list of supported models.

A wide range of device connectivity
with high performance communication



3 Details of the new features

3.1 IoT interfaces

The IoT interfaces, MQTT interface and HTTP interface, are newly supported.

Notes
The IoT interfaces is only available in V7 Professional.

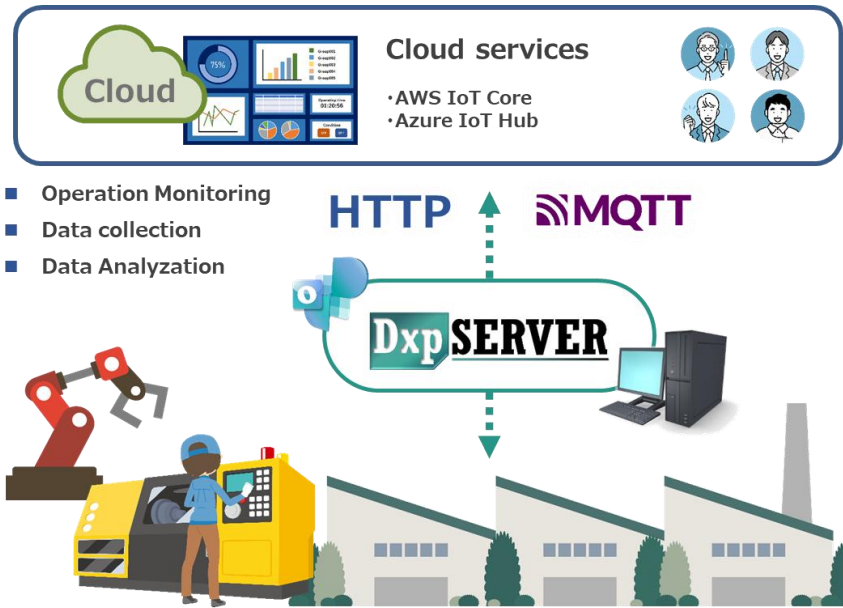
3.1.1 MQTT interface

It can run as MQTT publisher and subscriber.

Features	Details
MQTT publisher	Enables to publish messages containing tag data to MQTT brokers.
MQTT subscriber	Enables to subscribe messages from MQTT brokers and to refresh the data to tag data.

3.1.2 HTTP interface

It can run as an HTTP REST client and can handle GET, PUT, POST, DELETE, OPTIONS, HEAD and TRACE methods to HTTP servers.



3.2 OPC UA server interfaces

Three OPC UA server specifications are newly supported.

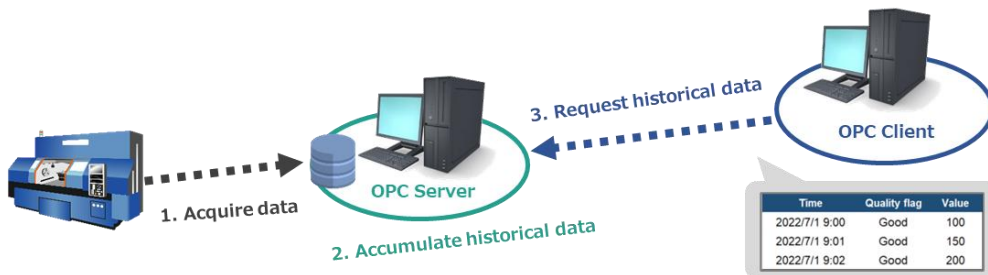
Notes

OPC UA “Historical Access” server and OPC UA “Alarms and Conditions” server are only available in V7 Professional.

OPC UA Reverse Connect Client is available in all editions of Ver.7.

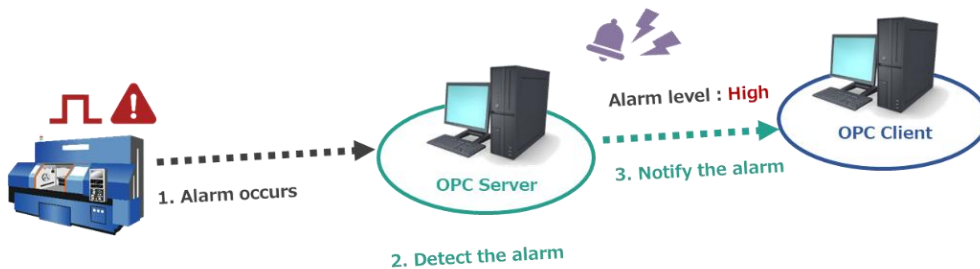
3.2.1 OPC UA Historical Access

The history of tag value changes can be temporarily stored in its internal database, and the accumulated historical data can be accessed by OPC UA client via OPC UA Historical Access interface.



3.2.2 OPC UA Alarms and Conditions

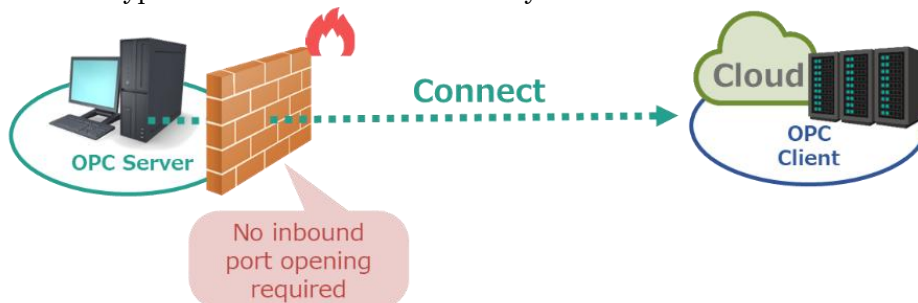
The tag alarm conditions can be managed, and these alarms are notified to the OPC UA client via the OPC UA Alarms and Conditions interface.



3.2.3 OPC UA Reverse Connect Client

In a normal connection between OPC UA server and OPC UA client, OPC UA client connects to OPC UA server through the open port of OPC UA server. In a reverse connection, the OPC UA client opens the port to which the OPC UA server connects.

This can bypass firewall and router security restrictions and is suitable for cloud connections.



DeviceXPlorer OPC Server

User's Guide

How to upgrade from Ver.5 to Ver.7