

General Specifications

GS 30A15A30-01E

SS1WL1C, SS1WL1S Standard Whitelisting Software for Endpoint Security

■ OVERVIEW

This General Specification (GS) describes the Standard Whitelisting Software for Endpoint Security (the Standard WL Software). With this product, Yokogawa offers security measures for PCs and servers which are endpoints of a control system.

Note: Endpoint refers to terminals, computers, information devices, etc. connected to the ends of a communication line or network. In this GS, it refers to Windows OS-installed computers that have been linked to a control system.

This product is a Yokogawa certified product which suits for Yokogawa IA systems.

● Whitelisting Software

Whitelisting: It is a mechanism for screening objects to permit or reject them. In this method, a list (whitelist) is created which lists the applications to be permitted, and applications not in the list are rejected execution. The antonym is blacklisting, in which the method rejects execution applications listed in the list and permits execution those not in the list.

The Whitelisting Software described in this document is security software using the whitelisting, and is designed to prevent execution unauthorized applications such as malware not in the whitelist.

■ FUNCTIONAL SPECIFICATIONS

Based on Trellix application control technology, the Standard WL Software is the whitelisting software for Yokogawa IA control systems.

This product has the following features in addition to the functions of general whitelisting software when it is combined with Yokogawa Endpoint Security Service (GS 43D02T30-02EN). These features are not provided by the Trellix's (*1) off-the-shelf products.

*1: Symphony Technology Group (STG) announced on January 19, 2022 the launch of Trellix, a new business delivering extended detection and response (XDR) to organizations with a focus on accelerating technology innovation through machine learning and automation. Trellix emerges from the previously announced merger of McAfee Enterprise and FireEye in October 2021.

● Optimized configuration

This product is installed with optimized configuration for Yokogawa IA system products by Yokogawa engineer.

● Verified stable operation of Yokogawa control system

IA control systems' HMIs and servers require real-time response and stable throughput for operator manipulations or data acquisition requests from supervisory systems. However, whitelisting software may affect the performance of PCs and servers due to its characteristics.

So, Yokogawa tested this product in combination with Yokogawa IA control system products to verify the operations of control systems. Through this effort, Yokogawa can offer Whitelisting Software suitable to control system.

■ SUPPORTED PRODUCTS

This product can be installed on a Windows PC or server on which following Yokogawa products is installed. For earlier revisions and EOS products, refer to the GS of "Malware Inactivated Service" in Endpoint Security Service (GS 43D02T30-02EN).

● Yokogawa Products Supported by the standard WL software

Products	Components/ Packages
CENTUM VP (R6.04 or later)	HIS
	ENG
	AD Organizer
	AD Server
	HIS TSE
	File Server
	UGS2
	UACS
	SOE Server and Viewer
	SIOS
ProSafe-RS (R4.03 or later) ProSafe-RS Lite (R4.06 or later)	HMI
	SENG
	AD Organizer
	File Server
	License Server
	AD Suite Server
	SOE OPC Server
Exaopc (R3.76 or later)	Server
	RD Server
	RD Client
Exapilot (R4, R3.97 or later)	Server
Exaquantum (R3.10 or later)	Combined Server (PIMS Server + Web Server)
	Explorer Client
Exaquantum/SER (R3.30 or later)	SFM Server + SFM Web Server
Exaquantum/SFM (R3.35 or later)	SER Server + SER Web Server
Exaquantum/ARA (R3.35 or later)	ARA Server + ARA Web Server
Exaquantum/AMD (R3.35 or later)	AMD Server + AMD Web Server
PRM (R4)	PRM Server
	PRM Client
	Field Communication Server
	CMMS Interface-MAXIMO
	Interface Package for CMMS
	Advanced Diagnosis Server
	Interface Package for GE Energy's System 1
	PST Scheduler
	Interface Package for Generic System
PRM CSP (R1.02 or later)	-
FAST/TOOLS (R10.04 or later)	FAST/TOOLS Server
	Web HMI Server

Products	Components/ Packages
STARDOM - VDS (R9, R8) - FCN/FCJ software (R4.10 or later)	VDS Server
	Logic Designer
	Resource Configurator
	FCN/FCJ OPC Server for Windows
	FCN/FCJ Duolet Application Development Kit
	FCN/FCJ Simulator
VTSPortal (R2.06 or later)	Application Server
	Web Server
InsightSuiteAE (R1.07 or later)	InsightNavigator
	InsightSuiteAE Server
	EngineeringCenter
	Field Asset Alarm KPI Report Generator
	InsightSuiteAE Comprehensive Report Generator
	InsightSuiteAE API
CI Server (R1)	CI Core
	CI Portal
	CI View
	CI Mobile View
	CI Exchange for CENTUM VP
	CI Exchange for Prodigy
Integrated Recipe Manager (R1)	-
Platform for Advanced Control and Estimation (R5.03 or later)	APC Server
	Web Server
	APC Client

Please confirm the supported status of the product not described in the above table, such as Tokuchu Software, to the appropriate development department.

● Virtualization Platform Supported by the standard WL software

For virtual machines that apply the Yokogawa Standard Whitelisting Software, increase 1 GB uniformly to the memory size that needs to be allocated for each virtual machine.
Please refer to TI 30A15A30-01EN for restrictions.

Products	Description
Virtualization Platform (R1.02 or later)	The standard WL software can be installed on the following components. Virtual Machine, Host OS, Thin client

Supported Yokogawa system products on Virtual Machine

Products	Components/ Packages
CENTUM VP (R6.09 or later)	(*1)
ProSafe-RS (R4.07 or later) ProSafe-RS Lite (R4.07 or later)	(*1)
Exaopc (R3.80 or later)	(*1)
Exaquantum (R3.30 or later)	(*1)
PRM (R4.05 or later)	(*1)
VTSPortal (R2.07 or later)	(*1)
CI Server (R1.02 or later)	(*1)

*1: Same as the physical environment.

Please confirm the supported status of the product not described in the above table, such as Tokuchu Software, to the appropriate development department.

● Restrictions

As the standard WL software environment

The standard WL software is not usable under situation with installation of the software that generates files such as Visual Studio.

In addition, the operating environment of each supported product must be complied.

For the environment of supported products

Products	Description
Exaquantum (R3.10 or later) Exaquantum/SFM (R3.30 or later) Exaquantum/SER (R3.35 or later) Exaquantum/ARA (R3.35 or later) Exaquantum/AMD (R3.35 or later)	The standard WL software is allowed to be installed on only Windows Server 2016, Windows Server 2019 and Windows Server 2022.
Virtualization Platform (R1.02 or later) - Thin Client	The standard WL software is allowed to be installed on only Windows 10 IoT Enterprise 2019 LTSC or Windows 10 IoT Enterprise 2021 LTSC.

■ MODEL AND SUFFIX CODE

License for Windows PC (*1)

		Description
Model	SS1WL1C	Whitelisting Software license for Windows PC
Suffix Code	-N	Initial license (5 years) (*2)
	1	Always 1
	1	English version

License for Windows Server (*1)

		Description
Model	SS1WL1S	Whitelisting Software license for Windows Server
Suffix Code	-N	Initial license (5 years) (*2)
	1	Always 1
	1	English version

*1: This license includes only right of use of the standard WL software.

*2: The SS1WL1C and SS1WL1S licenses are valid for 5 years. A new license must be purchased again for renewal.

● Supported OS (Only 64 bit OSs are supported)

- Windows 10 Enterprise 2016 LTSC/ Windows 10 IoT Enterprise 2016 LTSC
- Windows 10 Enterprise 2019 LTSC/ Windows 10 IoT Enterprise 2019 LTSC
- Windows 10 Enterprise 2021 LTSC/ Windows 10 IoT Enterprise 2021 LTSC
- Windows Server 2016
- Windows Server 2019
- Windows Server 2022

■ ORDERING INFORMATION

Specify model and suffix codes when ordering.

■ PRECAUTIONS

- This product reduces the risk of execute unauthorized applications such as malware; however, it does not guarantee that the system is freed from being infected by malware.
- This product provides the software license. It does not provide installation media and installation manual.
- This product's software license is assigned to the installed hardware (PC or Server). Therefore, if hardware will be changed by updating Yokogawa products or any other reasons, another new license of this product is required to install new hardware.
- Do not forget to order "Security Effectiveness Service" in Endpoint Security Service (EPS) when installing this product. Please note that no support and warranty will be provided after installing this product if the EPS contract is not signed.
- If adding or updating of any application is required on the PC or servers which installed this product, also the configured whitelist is needed to update. Updating whitelist must be carried out by Yokogawa engineers. If updating of whitelist is required, please contact and request to Yokogawa service.

■ TRADEMARK ACKNOWLEDGMENT

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