USAGE NOTES

YASKAWA

Title: SigmaWin+ Version 7 Release Notes	
Product(s): SigmaWin+ Version 7	**Doc. No.** SigmaWinPlus_Ver.7

About This Document

This document provides information related to the current and historic releases of Yaskawa's SERVOPACK Engineering Tool SigmaWin+ for Sigma-series AC SERVOPACKs. Read and understand this document to determine if SigmaWin+ should be updated for your usage.

Contents

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SigmaWin+ Version 7.44 Release Notes (upgrade from version 7.43)

#	Item	Category	Description
1	Sigma-X	New Feature	Sigma-X is now supported.
2	Trace	Correction	Running a trace with a SERVOPACK combined with the Safety Option SGDV-OSA01A no longer results in an error (code 0x31000012).
3	Trace	Correction	Negative values no longer appear as "0" when reading a trace file (*.std) and displaying the parameters.
4	Trace	Correction	SigmaWin+ no longer crashes when loading a Sigma-5 trace file (*.std).

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SigmaWin+ Version 7.43 Release Notes (upgrade from version 7.42)

#	Item	Category	Description
1	Supported OS	Removals	Windows 7 is no longer supported.
2	Installation	Improvement	USB drivers are now automatically installed when installing SigmaWin+. NOTE: If the USB driver is already installed, it will not be updated.
3	SERVOPACK Features	Improvement	Supports the additional features of SERVOPACKS with Ver.0036.
4	Trace	Correction	• Saving a trace setting file (*.stc) with the sampling period at 8000 us no longer changes to 2000 us after loading the trace setting file. • Negative value is no longer 0 when "Display parameter" is performed on the trace screen. • Tracing no longer fails if the axis number (line number) is not in ascending order of A axis/B axis in the module configuration definition. • *.std files saved by SigmaWin+Ver.5 can be loaded again (could not be read using Ver.7.40 or 7.42).
5	Parameter Converter	Correction	CSV file is now saved when selecting "Save conversion log (csv) at the same time".
6	Installation	Correction	CamTool for MP3000 is no longer installed with SigmaWin.

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SigmaWin+ Version 7.42 Release Notes (upgrade from version 7.40):

#	Item	Category	Description
1	Supported OS	Additions	Windows 11 is now supported.
2	Supported Product	Additions	Σ-MD EtherCAT is now supported.
3	Mechanical Analysis	Additions	• Up to 10 previous results from performing Mechanical Analysis are now available to be displayed from the history dialog box. • Printing superposed graphs is now possible.
4	Trace	Improvements and Corrections	• The position of the pre-trigger on the graph is no longer slightly different than the set value. • When the pre-trigger set value is changed to 0, the display of the trigger position on the graph now updates to 0 from the previous position. • The cursor values are now completely displayed. • The batch export destination folder is no longer set to the default value each time (the previous save destination is now retained).
5	Edit Parameters	Improvements and Corrections	• The name of PnB24 bits 20 to 24 (SO1 to SO5) now matches the name in the SERVOPACK manual. • The name of Pn475 now matches the name in the SERVOPACK manual. • PnB02 and PnB04 no longer display as "Reserved". • Σ-7 EtherCAT parameter PnB9C is now displayed. • Pn50D.0 and Pn50D.3 contents are now correct (applies to SGDV-□□E[S/P]1 models). • Pn550 and Pn553 are now displayed (applies to SGDV-□□E[1/2]1 models).
6	Ripple Compensation	Improvements and Corrections	• Ripple Compensation is now correctly performed after closing the function with the X button after clicking "Write to Servo". Previously, if closing the Ripple Compensation function with the X button, the SERVOPACK would be in the state before the Ripple Compensation was executed. Note: The related parameter is Pn423.0. • When measuring the speed ripple with the Reverse button, the compensation effect of the speed ripple is now improved.
7	Safety Module	Improvements	Improved the function to clear A.EC0 and A.EC1.
8	Scan	Improvements	An error could be reported when attempting to connect to a SERVOPACK though a controller if Microsoft Visual C++ Redistributable was not installed. The installer now installs this component.

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#	Item	Category	Description
9	Setup Wizard	Corrections	• The Pn20A formula is now correct when a round table mechanical structure is selected with the setting to use a fully-closed encoder. The formula was: "sine wave pitch (cycle) count per load shaft rotation" ÷ "gear ratio" The formula is now: "sine wave pitch (cycle) count per load shaft rotation" × "gear ratio" • Σ-7 EtherCAT parameters for electronic gear ratio for a (CoE) communications references SERVOPACK are now correct (was Pn20E and Pn210, is now PnB02 and PnB04). • Σ-7 EtherCAT formula for electronic gear ratio is no longer missing "× 1/16" when set to not to use a fully-closed encoder. • When the mechanical structure is belt and pulley, and the pulley diameter is set, the pitch formula is now correct (was "pulley diameter" ÷ π, is now "pulley diameter" × π). This is now also corrected for "rack and pinion" and "roll feed".

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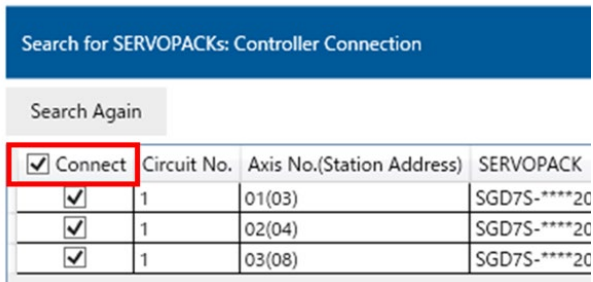## SigmaWin+ Version 7.40 Release Notes (upgrade from version 7.32):

#	Item	Category	Description
1	Supported Models	Addition	Added support for SGD7S-□□□□□□□□□□F91, SGD7S-OSB01A, & SGD7S-OSB02A models.
2	Trace	New Feature	Trace function is overhauled. Major additions: 4 analog trace channels along with 4 I/O channels. Number of plot points increased from 1000, to 1024. **NOTE**: The **Print** function has been replaced with the **Copy to Clipboard** function.
3	Program	New Feature	SigmaWin+ may be launched with multiple instances. **NOTE**: Connecting to products with multiple instance of SigmaWin + may degrade program responsiveness as the communication load increases.
4	Trace	Improvement	Added multi-axis support for trace data files.
5	Trace	Correction	Corrected an issue that caused a SigmaWin+ error when SigmaWin+ was closed after importing an *.std file.
6	Trace	Correction	Corrected the display of /HWBB1 and /HWBB2 in the Trace function for Sigma-7 MECHATROLINK-III models.
7	Tuning	Correction	Corrected an issue that caused Sigma-7 motors to return to a previous state when starting the motor with Custom Tuning.
8	Program	Correction	Corrected an issue that caused SigmaWin+ to terminate when connecting through a PCI or PCIe connection.

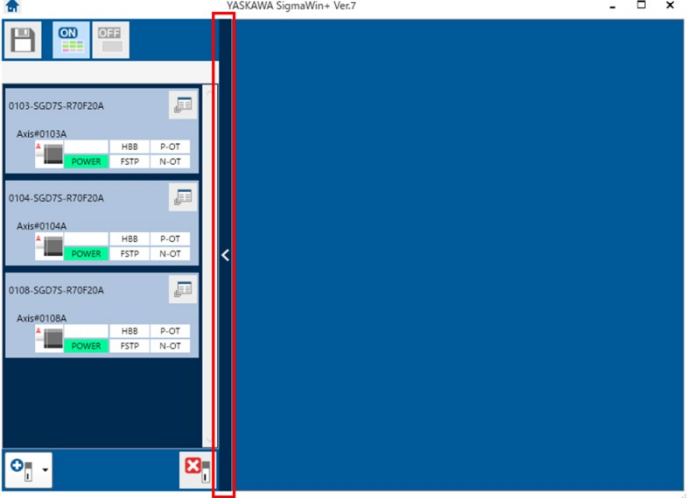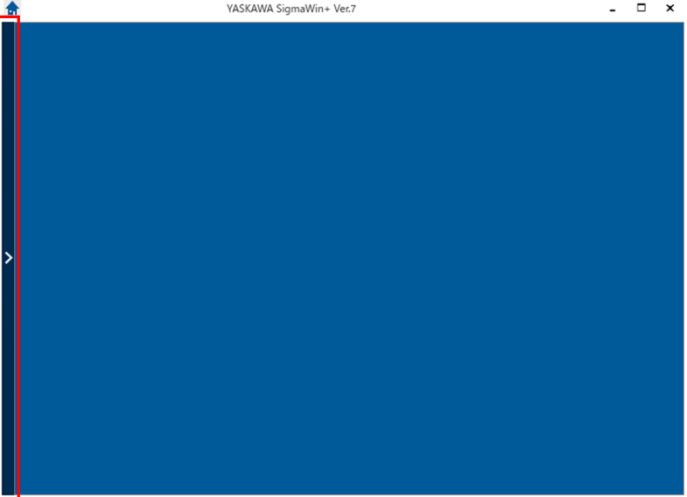| **Title:** SigmaWin+ Version 7 Release Notes	
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SigmaWin+ Version 7.32 Release Notes (upgrade from version 7.31):

#	Item	Category	Description
1	Axis Search function	Improvement	When selecting connected SERVOPACKs from the **SERVOPACK search results list**, all SERVOPACKs can now be selected at one time with the indicated checkbox.
2	Edit Parameters function	Improvement	The startup speed of the **Edit Parameters** window has been improved.
3	USB driver	Improvement	The SigmaWin+ installer places the USB driver in the following location: **[32-bit systems]** C:\Program Files\YASKAWA\SigmaWinPlus7\Driver **[64-bit systems]** C:\Program Files (x86)\YASKAWA\SigmaWinPlus7\Driver This allows the user to delete the SigmaWin+ installer files, yet still be able to install the USB driver.

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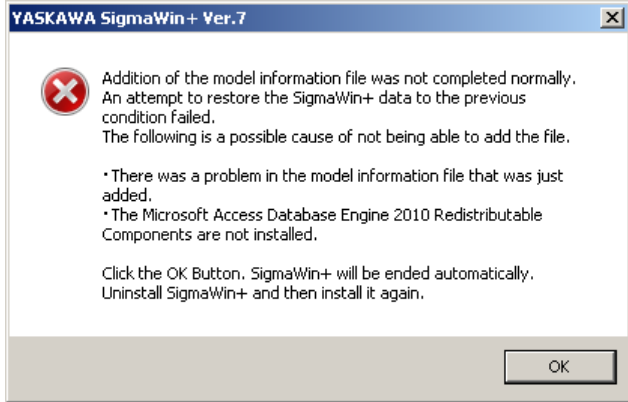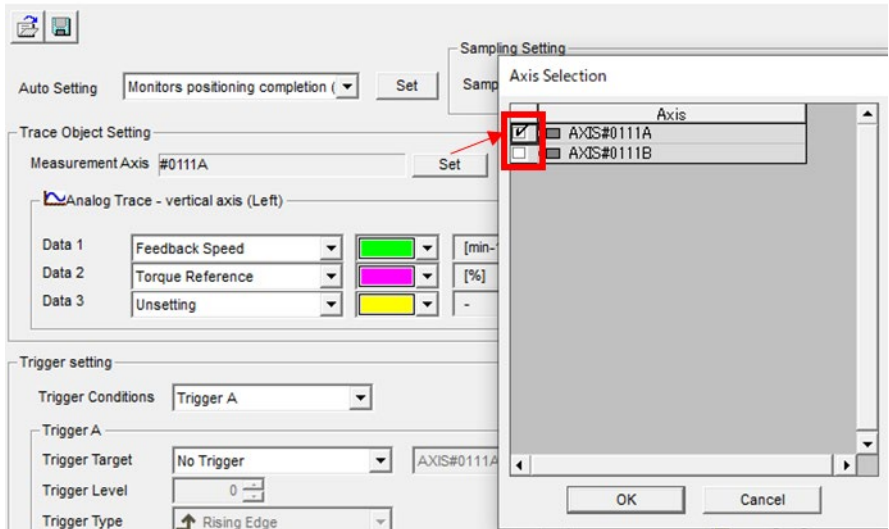| #	Item	Category	Description
4	Workspace	Improvement	The workspace may be expanded by pressing the indicated button. The workspace may be retracted by pressing the indicated button:

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#	Item	Category	Description
5	Program Launch	Correction	Previously, launching SigmaWin+ could result in the following error, if Microsoft Office (64-bit version) was installed. One workaround was that a compiled database had to be obtained from Yaskawa and manually placed in the SigmaWin program directory. This issue is corrected.
6	Trace function	Correction	The checkmark for axis selection was not displayed for multi-axis SERVOPACKs in the **Trace** function. This issue is corrected, as shown:

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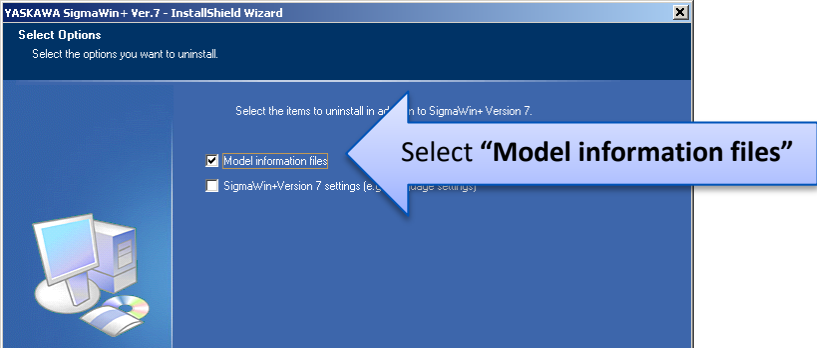| #	Item	Category	Description
7	Tuning function	Correction	Using Windows 10, SigmaWin+ would stop working if the speed was manually decreased in the **Moment of inertia ratio estimation** function within the **Tuning** function. This issue is corrected. Note: After the speed is set and the notification message is displayed, SigmaWin+ would freeze when opening the **Reference Transmission** Window.
8	Real-time tracing function	Correction	The two following issues have been corrected: 1. When **Real-time tracing** function is executed simultaneously on two axes, the /S-ON waveform repeatedly switches between ON and OFF regardless of the actual servo ON/OFF state. 2. When **Real-time tracing** function is executed simultaneously on two axes and one axis stops, SigmaWin+ stops working.
9	Search function	Correction	If using SigmaWin+ through a motion controller, SigmaWin+ could not correctly connect to SERVOPACKs in a system that has multi-axis SERVOPACKs. This issue is corrected.
10	Standard MP	Correction	If SigmaWin+ is started with MPE720 Ver. 7 (the programming environment for Standard MP controllers), SigmaWin+ stops working if a CSV (axis file) **Edit Parameters Import** function is executed with the CSV file already open. This issue is corrected.

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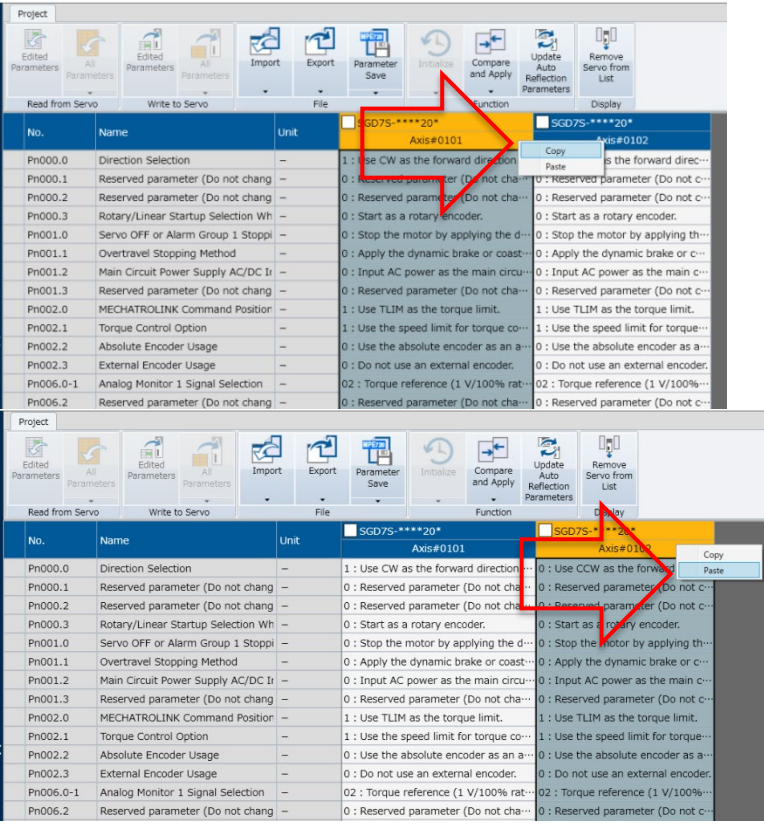
SigmaWin+ Version 7.31 Release Notes (upgrade from version 7.29)

#	Item	Category	Description
1	Model information files	Installation	Old model information files must not be used. When upgrading to SigmaWin+ Version 7.31, uninstall any old versions of SigmaWin+ Version 7.x, and select the box as indicated in the image below.
2	Parameter additions	Improvement	For Sigma-7S 100/200V SERVOPACKs with EtherCAT, added parameters PnB9C, PnBBE, PnBC0, PnBC2. Note: 400V models do not support these parameters.
3	Display	Improvement	Support for high resolution monitors. Also, corrections made to Trace function screen.
4	Standard MP	Improvement	Various feature improvements when SigmaWin+ is started with MPE720 Ver. 7 (the programming environment for Standard MP controllers): Axis Parameter CSV Export & Import, and Parameter comparison with project file.

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#	Item	Category	Description
5	Copying parameters from one axis to another	New Feature	Copy/Paste of parameters between axes, as shown in the images below. <u>To perform this function:</u> **1.** Select the column to copy by clicking the axis name. **2.** Either use shortcut keys **Ctrl + C** to copy, or right-click to display the context menu and select **Copy**. **3.** Select the column to paste by clicking the axis name. **4.** Either use shortcut keys **Ctrl + V** to paste, or right-click to display the context menu and select **Paste**.

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SigmaWin+ Version 7.29 Release Notes (upgrade from version 7.28)

#	Item	Category	Description
1	Forced termination	Correction	SigmaWin+ was terminated during operation. Several contributing factors have been identified and corrections have been made.
2	SERVOPACK search results and connection	Correction	When two SVC-01 were connected separately with SGD7W SERVOPACKs that have the same station address, and SigmaWin+ was connected to the SERVOPACKs via a machine controller, the SERVOPACK search function failed or a connection could not be established with a SERVOPACK even when the SERVOPACK was found. Another example of the problem was that the incorrect SERVOPACK was displayed in a SERVOPACK search result when axis numbers for one SGD7W and one SGD7S SERVOPACK were set as follows in MPE720 Ver.7. SGD7W (first axis) 03:01 SGD7S: 04 SGD7W (second axis) 03:02 This problem has been corrected.
3	The button to add servo drives when SigmaWin+ is connected via MPE720 Ver.7	New Feature	SERVOPACKS connected via MPE 720 Ver. 7 can now be added to the project with the "Add SERVOPACK" function within a project.
4	Title display when SigmaWin+ is connected via MPE720 Ver.7	Improvement	The string (machine controller model+ project file storage location + project file name) is displayed in the title bar when SigmaWin+ is connected via MPE720 Ver.7
5	Supports new product	New Feature	SigmaWin+ 7.29 adds support for the following products: SGD7S-□□□□C0
6	User's Manual	Improvement	The User's Manual is now accessible without having to install SigmaWin+. It is found at: `<Directory of extracted SigmaWin+ .zip archive>\SIETS80000134*.zip`

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SigmaWin+ Version 7.28 Release Notes (upgrade from version 7.27)

#	Item	Category	Description
1	Supports new products	Improvement	SigmaWin+ 7.28 adds support for the following products: • 400V Sigma-7Siec • 400V SigmaLogic7 Compact • 400V SigmaLogic7 Modbus

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SigmaWin+ Version 7.27 Release Notes (upgrade from version 7.26)

#	Item	Category	Description
1	Installation of FT components	Improvement	SigmaWin+ now installs the FT components with the main program installer. Previous versions of SigmaWin+ required the FT components to be installed manually.
2	Supports new SERVOPACK firmware	Improvement	SigmaWin+ 7.27 supports new SERVOPACK firmware.
3	Edit Parameter window, when connected with MPE720 using Ethernet Option Module 218IF-01/02	Correction	Corrected the Edit Parameter not starting under the following condition: SigmaWin+ connection via MPE720 through the Ethernet Option Module 218IF-01 or 218IF-02. [Applicable Models] SERVOPACKs with MECHATROLINK communications Note: If SigmaWin+ is connected through a Controller, SigmaWin+ will not support communications via the Ethernet Optional Module (218IF-01/02).
4	Parameter display: Pn493, Pn494	Correction	Corrected the missing display of Pn493 and Pn494 that existed in SigmaWin+ version 7.26. [Applicable Models] SGD7S-□□□□00 SGD7W-□□□□20 SGD7S-□□□□10 SGD7W-□□□□30 SGD7S-□□□□20 SGD7W-□□□□A0 SGD7S-□□□□30 SGD7S-□□□□E0
5	Input Signal names (SI1 to SI3) for the SERVOPACKs with analog voltage/pulse train references	Correction	The input signal names for CN1-41, CN1-42, and CN1-43 have been changed to the names used in the product manual: <table><tr><th>Before Change</th><th>After Change</th></tr><tr><td>SI1 (CN1-41)</td><td>SI3 (CN1-41)</td></tr><tr><td>SI2 (CN1-42)</td><td>SI1 (CN1-42)</td></tr><tr><td>SI3 (CN1-43)</td><td>SI2 (CN1-43)</td></tr></table> [Applicable Model] SGD7S-□□□□00
6	Pn880 display	Correction	The display of the Pn880 value was changed from the decimal number system to the hexadecimal number system. [Applicable Models] SGD7S-□□□□10 SGDV-□□□□11□

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7	Pn001 & Pn515 display	Correction	Pn001 and Pn515 are now displayed. [Applicable Models] SGD7S-□□□□D30 SGD7S-□□□□DA0