



Dynamic Configuration Software User Manual (I/O Configurations)

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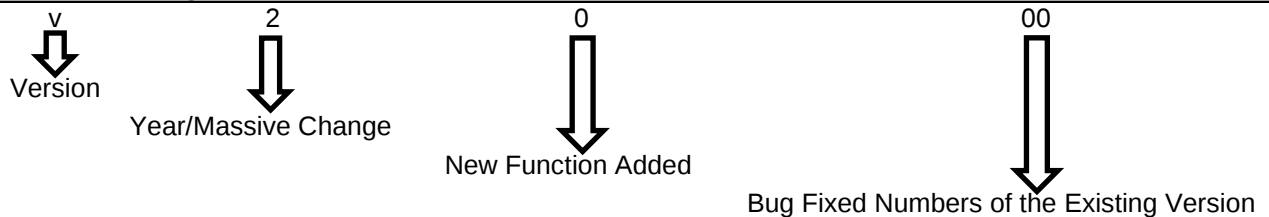
Dynamic Configuration Software User Manual (I/O Configurations)



Prepared by	Hossain Mohammad Nahid
Version	WJFlexConfigApp_English_v2.0.00.exe
Path	

Revision	Date	Description	Department/ Author
REV-1.0	2025.04.11	Official Release.	Control Design Team 1 / Hossain

Version Management

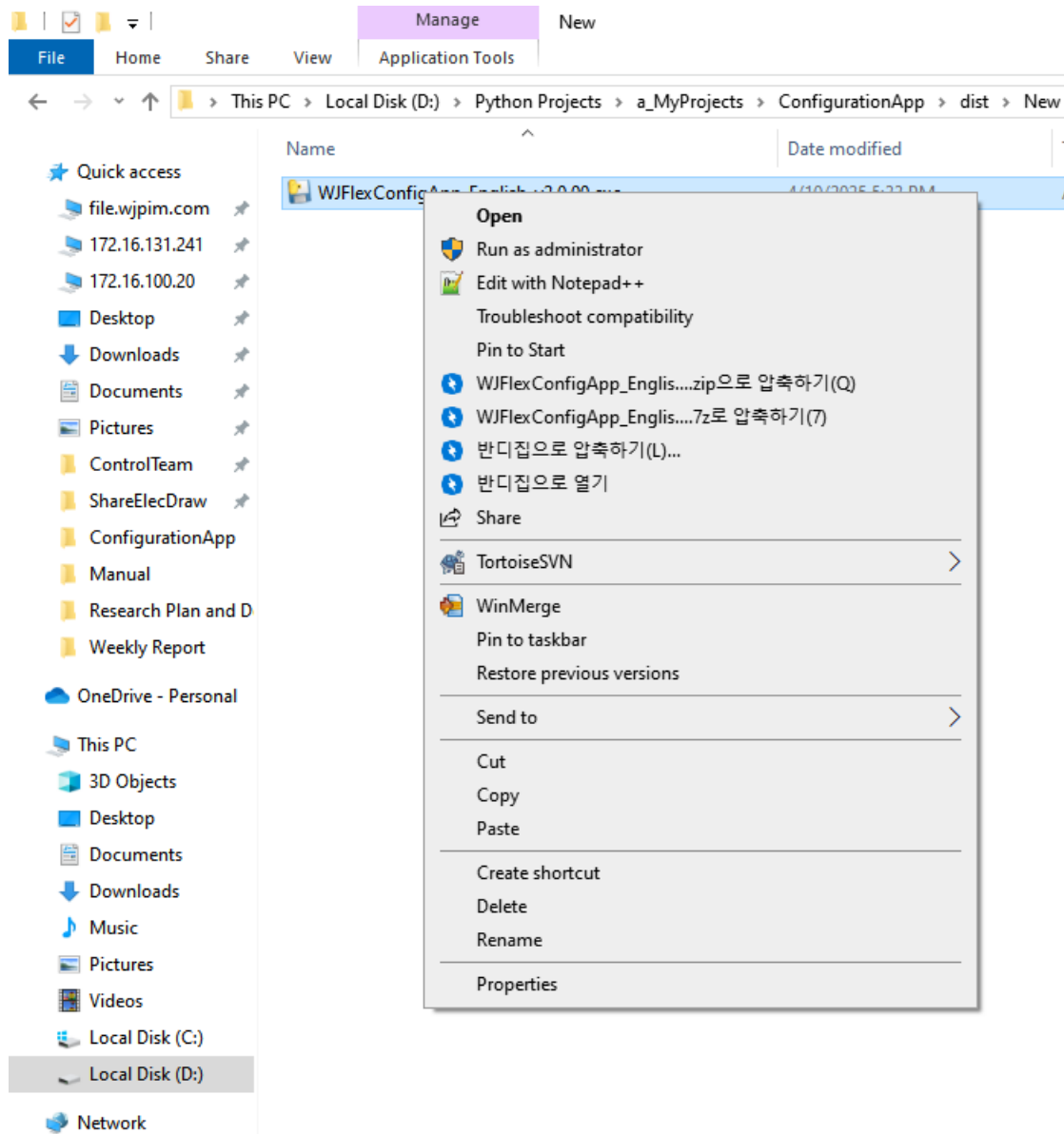


Dynamic Configuration Software User Manual (I/O Configurations)

1. Start	4
2. "Machine Info" Page	6
3. "Drive" Page	8
4. "X20" Page	9
5. "Powerlink Node 1/2/3/11/12" Pages	11
6. Operations	13
6.1. "Standard Buttons (DL/TH/TE/VH/TOC)" Operation	13
6.2. "Generate Configuration Files" Operation	17
6.3. "Languages Translation" Operation	24
6.4. "Save Configuration" Operation	29
6.5. "Clean Configuration" Operation	34
6.6. "Load Configuration" Operation	39
6.7. "Exit" Operation	46
7. Additional	48

1. Start

- It is recommended for users to run the software by “Run as administrator”.



- After a while, the user will see a page like this. This is the starting page named “Machine Info”.

WJFlexConfigApp_English_v2.0.00

Machine Info~
Drive~
X20~
Powerlink Node 1~
Powerlink Node 2~
Powerlink Node 3~
Powerlink Node 11~
Powerlink Node 12

Machine Information
Machine Name:
Customer:

Software Language:



Hardwares
Controller Type: IMC510 X20CPU
Machine Type: DL

ServoPump B&R
Old Node Values
Tag-1

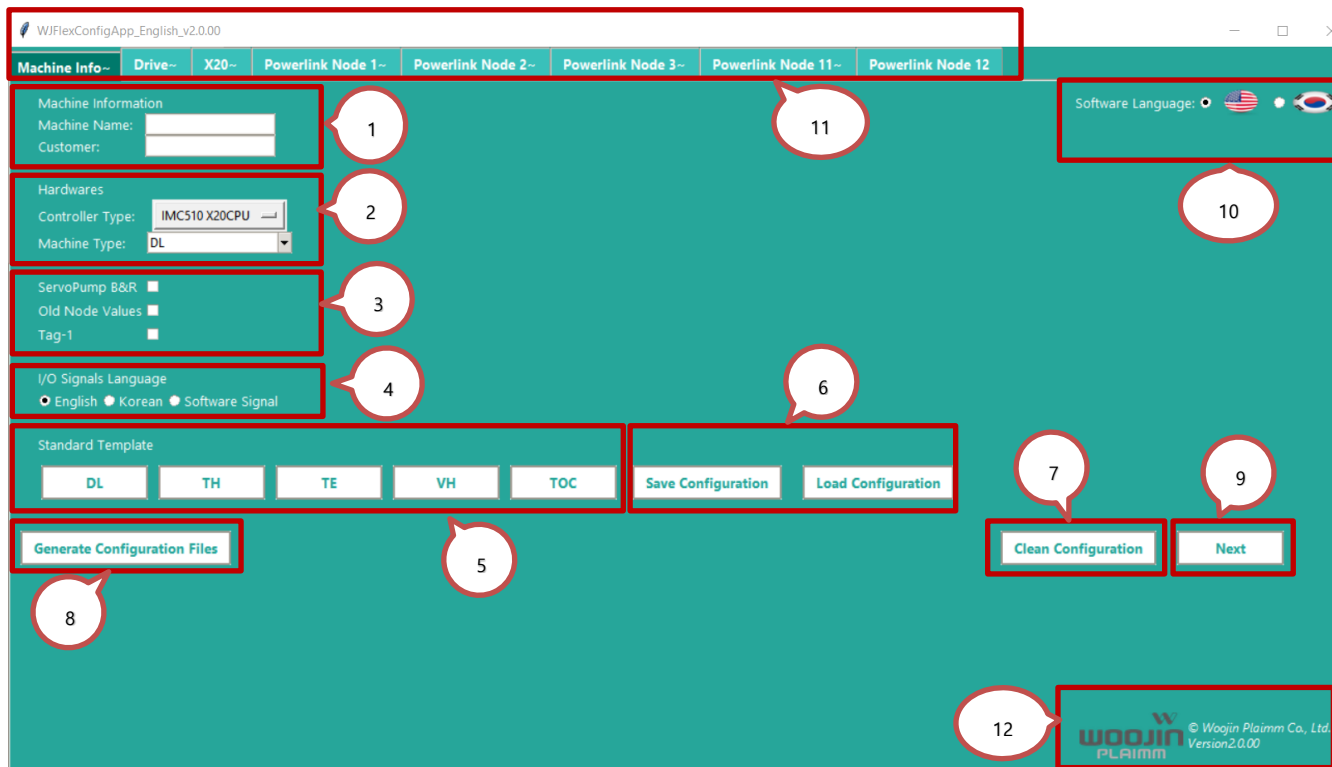
I/O Signals Language
English
Korean
Software Signal

Standard Template
DL
TH
TE
VH
TOC
Save Configuration
Load Configuration

Generate Configuration Files
Clean Configuration
Next


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Version2.0.00

2. “Machine Info” Page



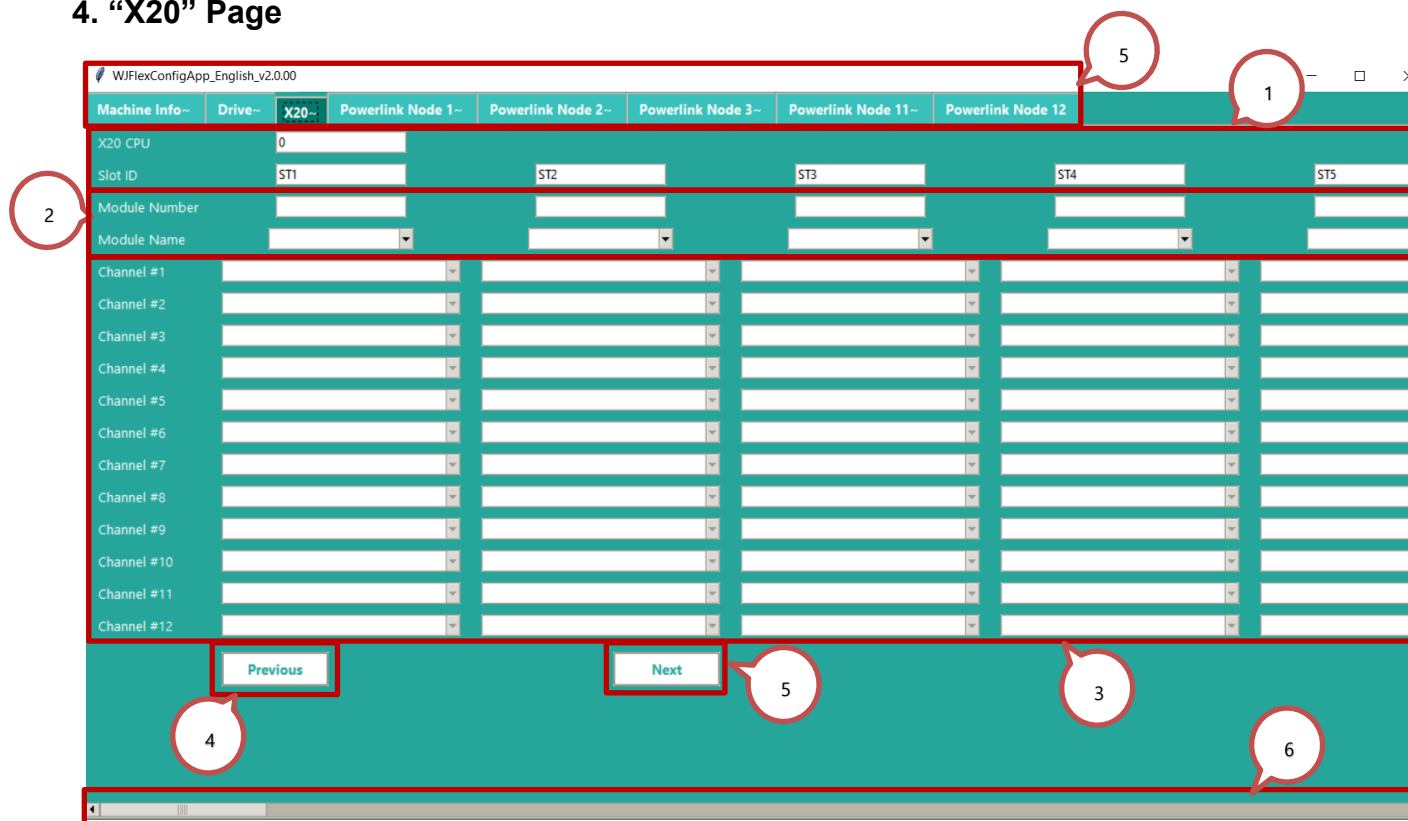
1	Machine Information	The user can input the machine name in the „Machine Name“ input field and the customer name in the „Customer“ input field.
2	Hardwares	The user can choose the machine controller type from the „Controller Type“ dropdown box. This option is set as „IMC510 X20CPU“ by default. The user can also choose the machine type from the „Machine Type“ dropdown box. This option is set as „DL“ by default.
3	ServoPump B&R	The user should click to check this „ServoPump B&R“ checkbox if the machine is run by the B&R drive . This option is set as „ unchecked “ by default.
	Old Node Values	The user should click to check this „Old Node Values“ checkbox if needed to use old node values. This option is set as „ unchecked “ by default.
	Tag-1	The user should click to check this „Tag-1“ checkbox if the machine is run by the KEB drive and Tag1 software . This option is set as „ unchecked “ by default.
4	I/O Signals Language	The user can translate the I/O signal names, which are located from the „X20“ page (3rd page) to the „Powerlink Node 12“ page (last page). There are three (3) languages available. 1. English 2. Korean 3. Software Singal This option is set as „English“ by default. (English version for overseas engineers) This option is set as „Korean“ by default. (Korean version for factory engineers)
5	DL Button	The user can choose this „DL“ button to load a standard configuration of the DL machine.
	TH Button	The user can choose this „TH“ button to load a standard configuration of the TH

		machine.
	TE Button	The user can choose this „TE“ button to load a standard configuration of the TE machine.
	VH Button	The user can choose this „VH“ button to load a standard configuration of the VH machine.
	TOC Button	The user can choose this „TOC“ button to load a standard configuration of the TOC machine.
6	Save Configuration Button	After clicking on this „Save Configuration“ button, the user will be able to save the existing configuration for further use. The configuration will be saved as a „json“ format and in the „Configurations“ folder, which will be (created for the first time) located in the same path where the user put the software.
	Load Configuration Button	After clicking on this „Load Configuration“ button, the user will be able to load the previously configured use. The configuration file should be in the „json“ format and, of course, previously created by this software. Otherwise, it will not load perfectly.
7	Clean Configuration Button	After clicking on this „Clean Configuration“ button, the user can remove the configuration from the „X20“ page (3rd page) to the „Powerlink Node 12“ page (last page).
8	Generate Configuration Files Button	After clicking on this „Save Configuration“ button, the user will able to generate three files. 1. ConfigHW.xml 2. ConfigIO. xml 3. IO_info.CSV The dynamic configuration will be saved in the „Export“ folder, which will be (created for the first time) located in the same path where the user put the software.
9	Next Button	After clicking on this „Next“ button, the user will be able to go to the next page. <u>Note: The user can also go to the next page by clicking on the tab located at the top of the page (Page Name Tab).</u>
10	Software Language	The user can choose whether to use „English“ or „Korean “ language for the labels used inside the software. This option is set as „English“ by default.
11	Software	The software name and its version are shown at the top of the page.
	Pages Name	The available pages are shown right under the software name.
12	Company Logo	The Company logo and copyright information is shown at the right bottom corner.

3. “Drive” Page

1	Motion	The users can choose the motion drive name from the „Motion“ dropdown box.
2	Powerlink Station	This is the node number of the drive, which will be automatically generated by selecting the „Axis name“ (drive name). Users can write down this field if the number is not correctly generated.
	Axis Name	The users can choose the drive name from this „Axis Name“ dropdown box.
	Axis Name(2)	This is „disabled“ by default. The user activates it when selecting „KEBA DOUBLE“ from the „Motion“ dropdown menu box.
3	Powerlink Card	These options will be active and work if the „Motion“ dropdown is selected as the „B&R“.
	Encoder Card	
	Auxillary Card	
4	Previous Button	The user can go to the last page after clicking the „Previous“ button. Note: The user can also return to the previous page by clicking on the tab at the top (Page Name Tab).
5	Next Button	The user can go to the next page after clicking the „Next“ button. Note: The user can also go to the next page by clicking on the tab at the top (Page Name Tab).

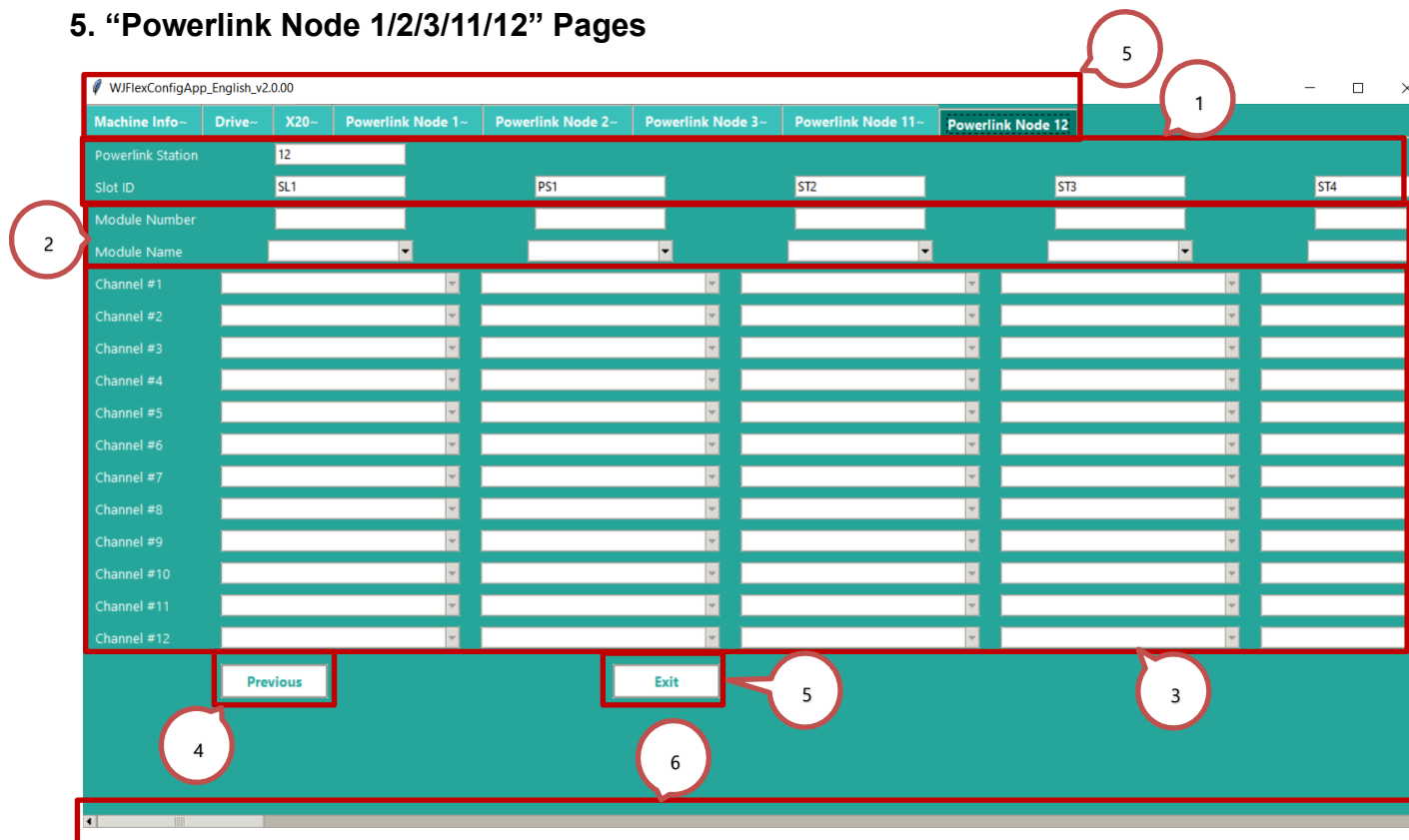
4. "X20" Page



1	X20 CPU	It means the node number „0“ page. The user can't write here, and this option is set as „Readonly.“
	Slot ID	These are the slot id's of the „Module Name“ of the machine. The user can't write here. This option is set as „Readonly“.
2	Module Number	These module number input fields will auto-generate the number upon selecting the module name from the „Module Name“ dropdown box. If the number does not seem correct, the user can write it down in this field to correct the number.
	Module Name	It is recommended that the user select the module names from the “Module Name” dropdown box instead of writing them manually. Otherwise, the module number generation will be troublesome.
3	Channel #1 ~ Channel #12	These are the fields where the user can choose the signal name from the dropdown box for the specific machines. These boxes are disabled by default. Depending on the specific cards, the slots are opened in specific numbers. The algorithm developed always counts the 6th place number to open the channel. It will be the same until the number in the 6th place is 8. If it is more than 8, then all slots of the channels will be opened. Example: 1. If a user chooses the „X20AO2632“ card, only 2 channels will be opened to select the IO. 2. If a user chooses the „X20DI9371“ card, all of the 12 channels will be opened to select the IO. 3. There are many cards, such as the „X20PS2100, “ where the user doesn't need the channels to input I/O information. So, the channels won't be opened.
4	Previous Button	The user can go to the previous page after clicking the „Previous“ button. Note: The user can also return to the previous page by clicking on the tab at the top

		(Page Name Tab).
5	Next Button	The user can go to the next page after clicking the „Next“ button. Note: The user can also go to the next page by clicking on the tab at the top (Page Name Tab).
6	Scroll Bar	The users can scroll horizontally to the right or left side to see the other values.

5. “Powerlink Node 1/2/3/11/12” Pages



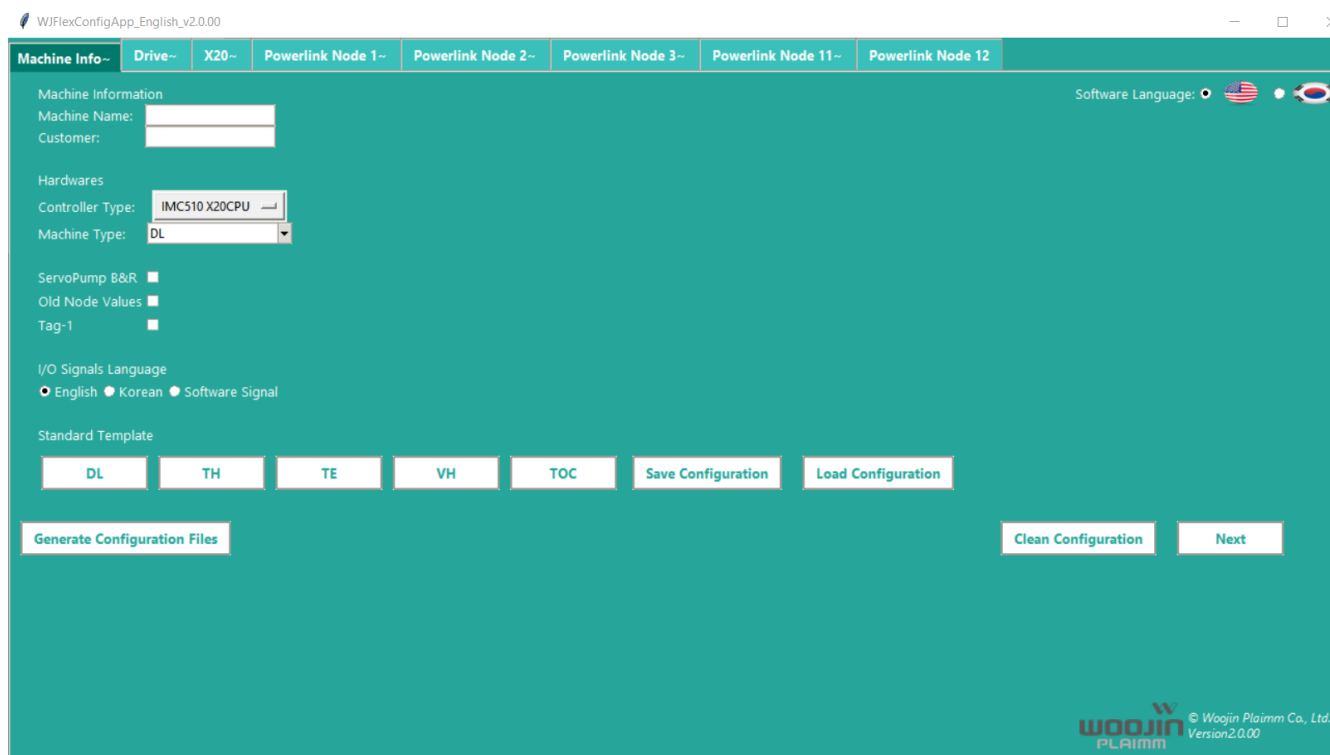
1	Powerlink Station	This means the node number „1/2/3/11/12“ pages. The user can't write here. This option is set as „Readonly.”
	Slot ID	Note: The „Powerlink Node 11“ (7th page) page is used only for the hotrunner options. These are the slot IDs of the machine's „Module Name.” The user can't write here. This option is set as „Readonly.”
2	Module Number	These module number input fields will auto-generate the number upon selecting the module name from the „Module Name” dropdown box. If the number does not seem correct, the user can write it down in this field to correct the number.
	Module Name	It is recommended that the user select the module names from the “Module Name” dropdown box instead of writing them manually. Otherwise, the module number generation will be troublesome.
3	Channel #1 ~ Channel #12	These are the fields where the user can choose the signal name from the dropdown box for the specific machines. These boxes are disabled by default. Depending on the specific cards, the channels will be opened in specific numbers. The algorithm developed always counts the 6th place number to open the channel. It will be the same until the number in the 6th place is 8. If it is more than 8, then all slots of the channels will be opened. Example: 1. If a user chooses the „X20AO2632” card, only 2 channels will be opened to select the IO. 2. If a user chooses the „X20DI9371” card, all of the 12 channels will be opened to select the IO. 3. There are many cards, such as the „X20PS2100,” where the user doesn't need the channels to input I/O information. So, the channels

		won't be opened.
4	Previous Button	The user can go to the previous page after clicking the „Previous“ button. Note: The user can also return to the previous page by clicking on the tab at the top (Page Name Tab).
5	Next/Exit Button	Next: After clicking this „Next“ button, the user can proceed to the next page. <u>Note: The user can also go to the next page by clicking on the tab located at the top of the page(Page Name Tab).</u> Exit: The user will get an " Exit " button on the last page instead of „Next. “. After clicking on this „Exit“ button, the user will be able to exit from the Application. <u>Note: The user can also exit from the application by clicking on the „X“ icon at the top right corner of the page.</u>
6	Scroll Bar	The users can scroll horizontally to the right or left side to see the other values.

6. Operations

6.1. “Standard Buttons (DL/TH/TE/VH/TOC)” Operation

A. In the „Machine Info“ (1st page), the user will be able to see under the „Standard Template“ section that there are some standard signal information loading buttons available for DL/TH/TE/VH/TOC. In this Manual, the **DL** machine operation will be shown as an example.



WJFlexConfigApp_English_v2.0.00

Machine Info~ Drive~ X20~ Powerlink Node 1~ Powerlink Node 2~ Powerlink Node 3~ Powerlink Node 11~ Powerlink Node 12

Machine Information

Machine Name:

Customer:

Hardwares

Controller Type:

Machine Type:

ServoPump B&R ☐

Old Node Values ☐

Tag-1 ☐

I/O Signals Language

☒ English ☐ Korean ☐ Software Signal

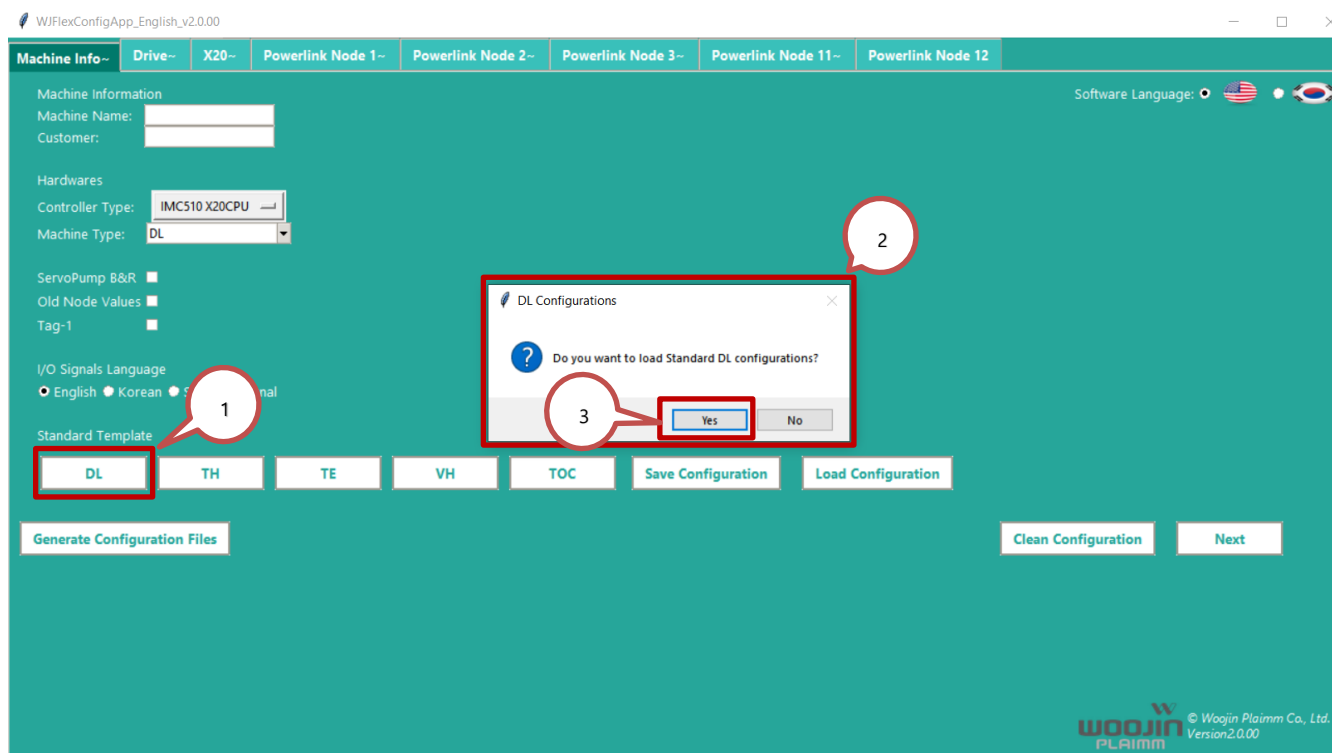
Standard Template

Software Language: ☐ ☐

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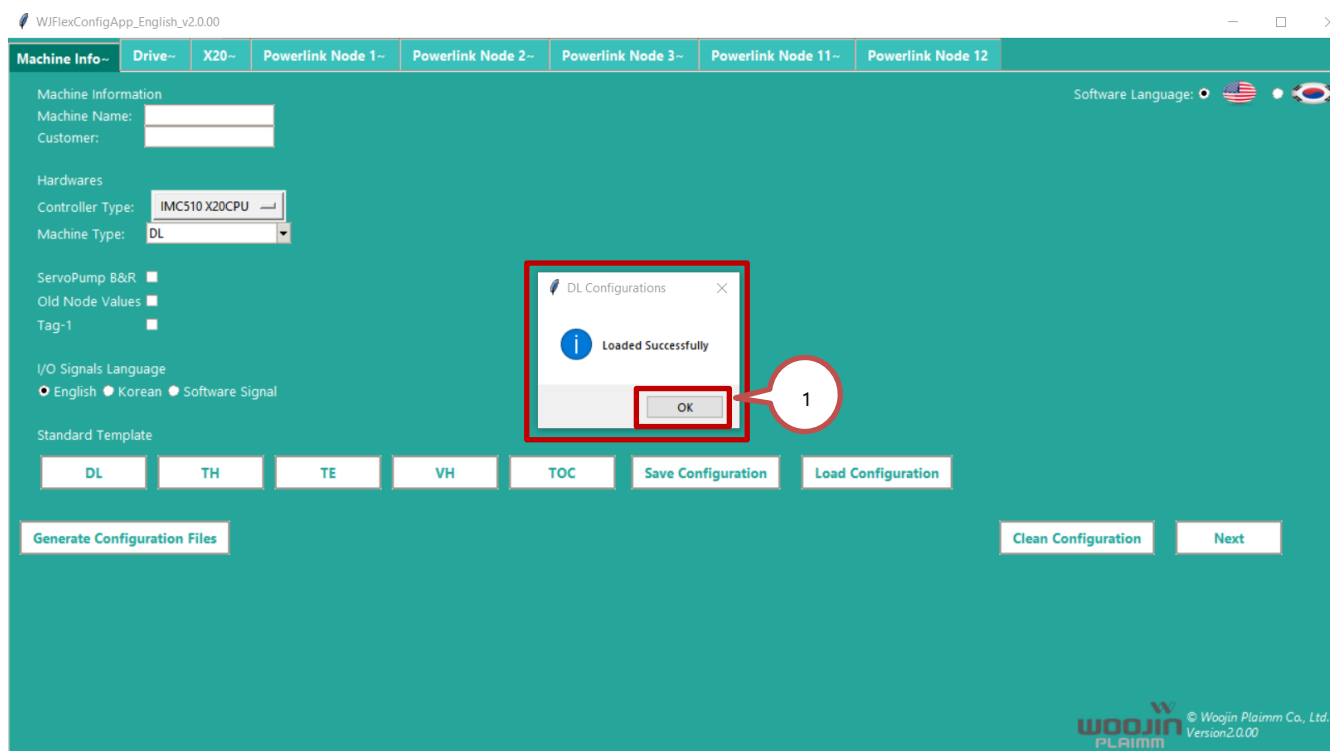
B.

1. Press the „DL“ button to load the DL machine configuration.
2. One pop-up window will ask the user whether the user would like to load the DL machine configuration.
3. Click on the „Yes“ option to allow the software to load the DL machine standard configuration signals.



C. One pop-up window displays the success message „Loaded Successfully “ to inform the user that the DL machine's configuration signals have been loaded successfully.

1. Click on „OK“ to go on to further activities.



D. The user will be able to see the standard configuration of the DL machine in the „X20“ (3rd page) and „Powerlink Node 1“ (4th page).

WJFlexConfigApp_English_v2.0.0.0

Machine Info~	Drive~	X20~	Powerlink Node 1~	Powerlink Node 2~	Powerlink Node 3~	Powerlink Node 11~	Powerlink Node 12
X20 CPU		0					
Slot ID		ST1		ST2		ST3	ST4 ST5
Module Number		0		1		2	3 4
Module Name		X20AT6402		X20AT2402		X20AI2632	X20DC1178 X20DI9371
Channel #1		gAl.Temp.ExternalZone		Oil Temperature		Inject Pressure	Inject Position SSI Motor Breaker Tripped
Channel #2		Nozzle Temperature		Hopper Temperature		Carraige Position	Carriage Backward End
Channel #3		Barrel 1 Temperature					
Channel #4		Barrel 2 Temperature					Hydraulic Oil Level Low
Channel #5		Barrel 3 Tempetature					Safety Footing Sensor
Channel #6		Barrel 4 Temperature					Cooling Pump Filter Normal
Channel #7							Main Block Drain Open
Channel #8							Screw RPM
Channel #9							Saftey PLC OK
Channel #10							
Channel #11							Grease Level Low Injection
Channel #12							

Previous Next

WJFlexConfigApp_English_v2.0.0.0

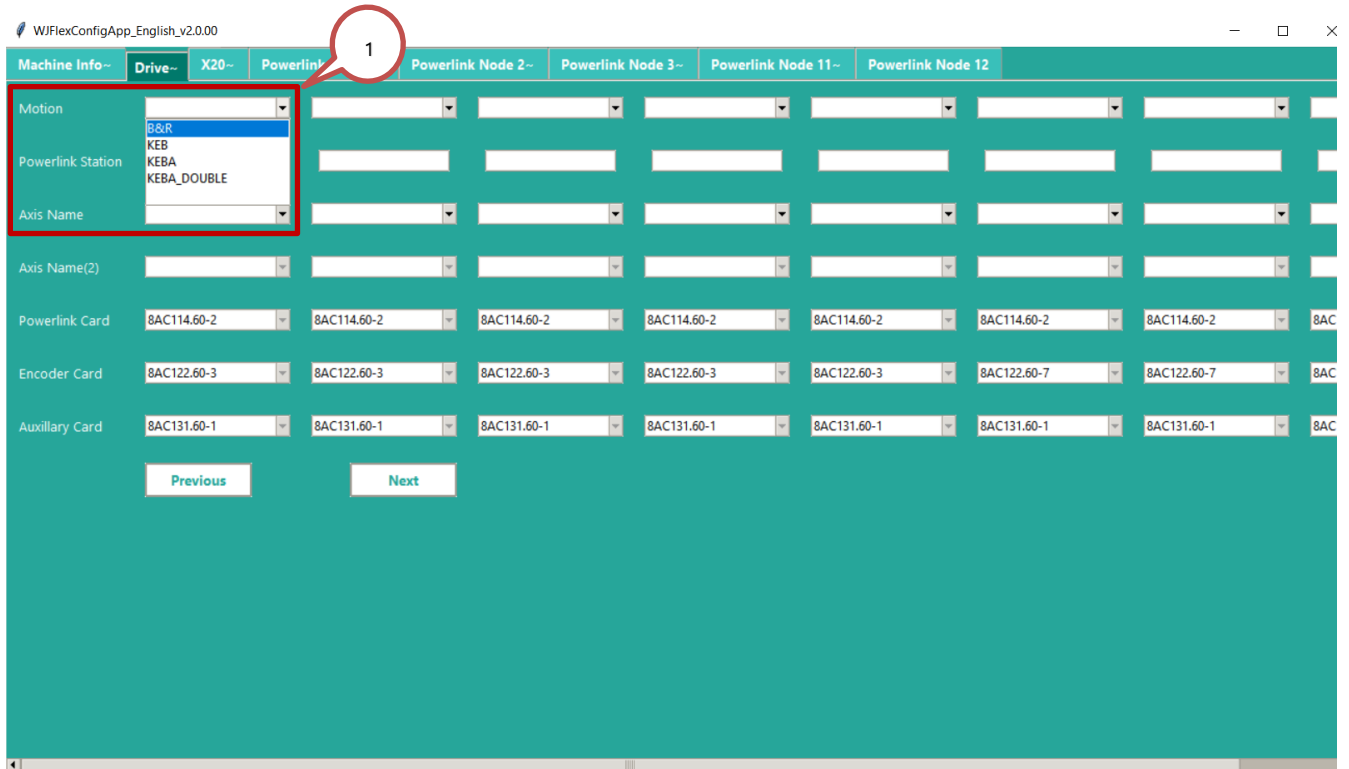
Machine Info~	Drive~	X20~	Powerlink Node 1~	Powerlink Node 2~	Powerlink Node 3~	Powerlink Node 11~	Powerlink Node 12
Powerlink Station		1					
Slot ID		SL1		PS1		ST2	ST3 ST4
Module Number		12		13		14	15 16
Module Name		X20BC0083		X20PS9400		X20AI4632	X20AI4632a X20DC1178
Channel #1						Tiebar Position 1	Ejector Position Clamp Position SSI
Channel #2						Tiebar Position 2	Clamp Lock Pressure
Channel #3						Tiebar Position 3	Clamp Prop Feedback
Channel #4						Tiebar Position 4	
Channel #5							
Channel #6							
Channel #7							
Channel #8							
Channel #9							
Channel #10							
Channel #11							
Channel #12							

Previous Next

6.2. “Generate Configuration Files” Operation

A. Now, the configuration of the signal information has been loaded. The user should add the drive information in the „Drive“ (2nd page).

1. Choose your machine drive from the „Motion“ section dropdown box.



WIFlexConfigApp_English_v2.0.00

Machine Info ~ Drive ~ X20 ~ Powerlink ~ Powerlink Node 2 ~ Powerlink Node 3 ~ Powerlink Node 11 ~ Powerlink Node 12

Motion: B&R, KEB, KEBA, KEBA_DOUBLE

Powerlink Station: KEBA, KEBA_DOUBLE

Axis Name

Axis Name(2)

Powerlink Card: 8AC114.60-2, 8AC114.60-2, 8AC114.60-2, 8AC114.60-2, 8AC114.60-2, 8AC114.60-2, 8AC114.60-2, 8AC114.60-2

Encoder Card: 8AC122.60-3, 8AC122.60-3, 8AC122.60-3, 8AC122.60-3, 8AC122.60-3, 8AC122.60-7, 8AC122.60-7, 8AC122.60-7

Auxillary Card: 8AC131.60-1, 8AC131.60-1, 8AC131.60-1, 8AC131.60-1, 8AC131.60-1, 8AC131.60-1, 8AC131.60-1, 8AC131.60-1

Previous Next

B. Choose your desired drive axis from the „Axis Name“ dropdown box. The node number of the drive will be automatically generated in the „Powerlink Station“ input field.

WJFlexConfigApp_English_v2.0.00

Machine Info~	Drive~	X20~	Powerlink Node 1~	Powerlink Node 2~	Powerlink Node 3~	Powerlink Node 11~	Powerlink Node 12
Motion	B&R						
Powerlink Station	17						
Axis Name	Pump1						
Axis Name(2)	Pump2						
Powerlink Card	Pump3						
Encoder Card	Pump4						
Auxillary Card	Pump5						
	Pump6						
	Pump7						
	Injection Motor 1						
	Injection Motor 2						
	Injection Motor 3						
		8AC114.60-2	8AC114.60-2	8AC114.60-2	8AC114.60-2	8AC114.60-2	8AC114.60-2
		8AC122.60-3	8AC122.60-3	8AC122.60-3	8AC122.60-3	8AC122.60-7	8AC122.60-7
		8AC131.60-1	8AC131.60-1	8AC131.60-1	8AC131.60-1	8AC131.60-1	8AC131.60-1

Previous Next

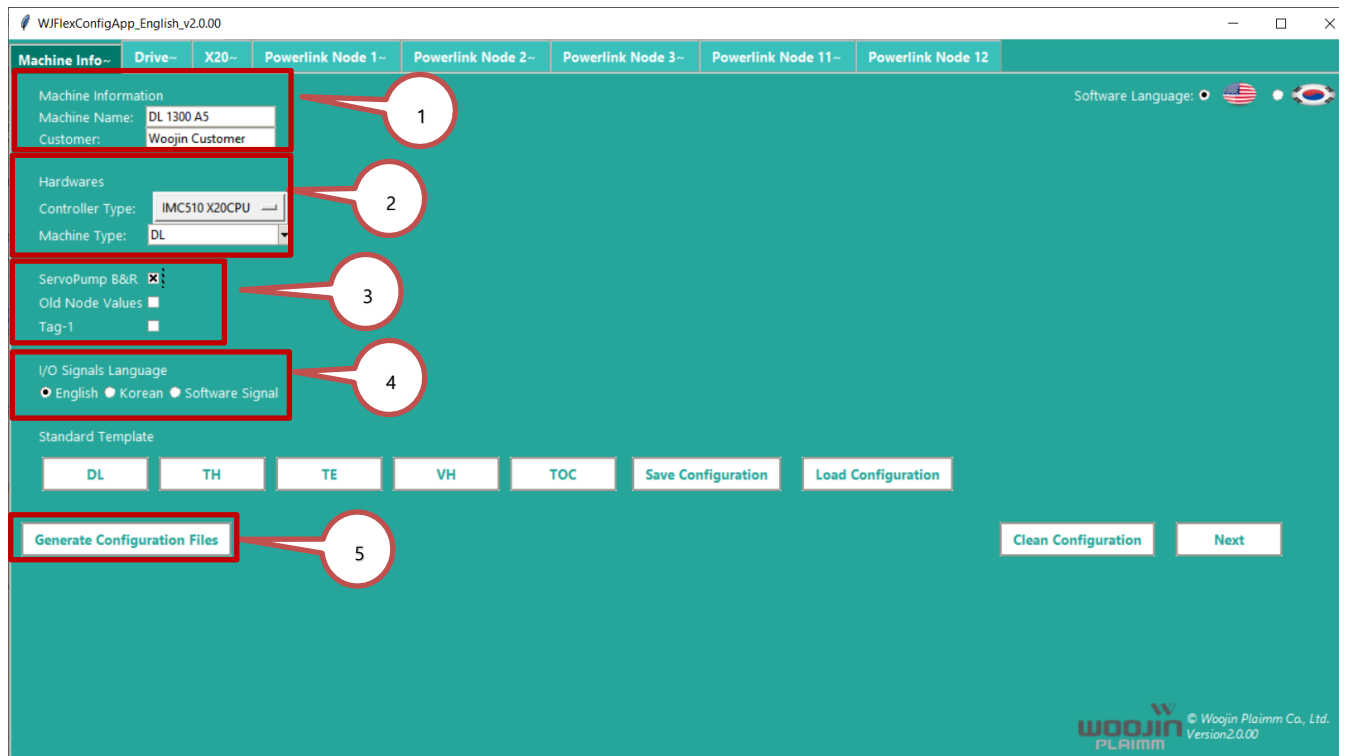
C. Two drives, B&R and KEB, and two axes, Pump1 and Pump2, have been selected to describe the situation.

WJFlexConfigApp_English_v2.0.00

Machine Info~	Drive~	X20~	Powerlink Node 1~	Powerlink Node 2~	Powerlink Node 3~	Powerlink Node 11~	Powerlink Node 12
Motion	B&R	KEB					
Powerlink Station	17	18					
Axis Name	Pump1	Pump2					
Axis Name(2)							
Powerlink Card	8AC114.60-2	8AC114.60-2	8AC114.60-2	8AC114.60-2	8AC114.60-2	8AC114.60-2	8AC114.60-2
Encoder Card	8AC122.60-3	8AC122.60-3	8AC122.60-3	8AC122.60-3	8AC122.60-3	8AC122.60-7	8AC122.60-7
Auxiliary Card	8AC131.60-1	8AC131.60-1	8AC131.60-1	8AC131.60-1	8AC131.60-1	8AC131.60-1	8AC131.60-1
Previous Next							

D. The user should go to the „Machine Info“ (1st page) page to include some more information.

1. Input the machine information, such as the machine model name and customer name, in the designated fields.
2. Input the hardware information, such as the controller type and the machine type, in the designated fields.
3. If the machine has B&R, then the „ServoPump B&R“ checkbox must be **checked**.
4. Input the desired language for the signal.
5. If everything is set, click on the „Generate Configuration Files“ to generate the xml files.



WJFlexConfigApp_v2.0.00

Machine Info~ Drive~ X20~ Powerlink Node 1~ Powerlink Node 2~ Powerlink Node 3~ Powerlink Node 11~ Powerlink Node 12

Machine Information
Machine Name: DL 1300 A5
Customer: Wootin Customer

Hardware
Controller Type: IMCS10 X20CPU
Machine Type: DL

ServoPump B&R ☒
Old Node Values ☐
Tag:1 ☐

I/O Signals Language
☒ English ☐ Korean ☐ Software Signal

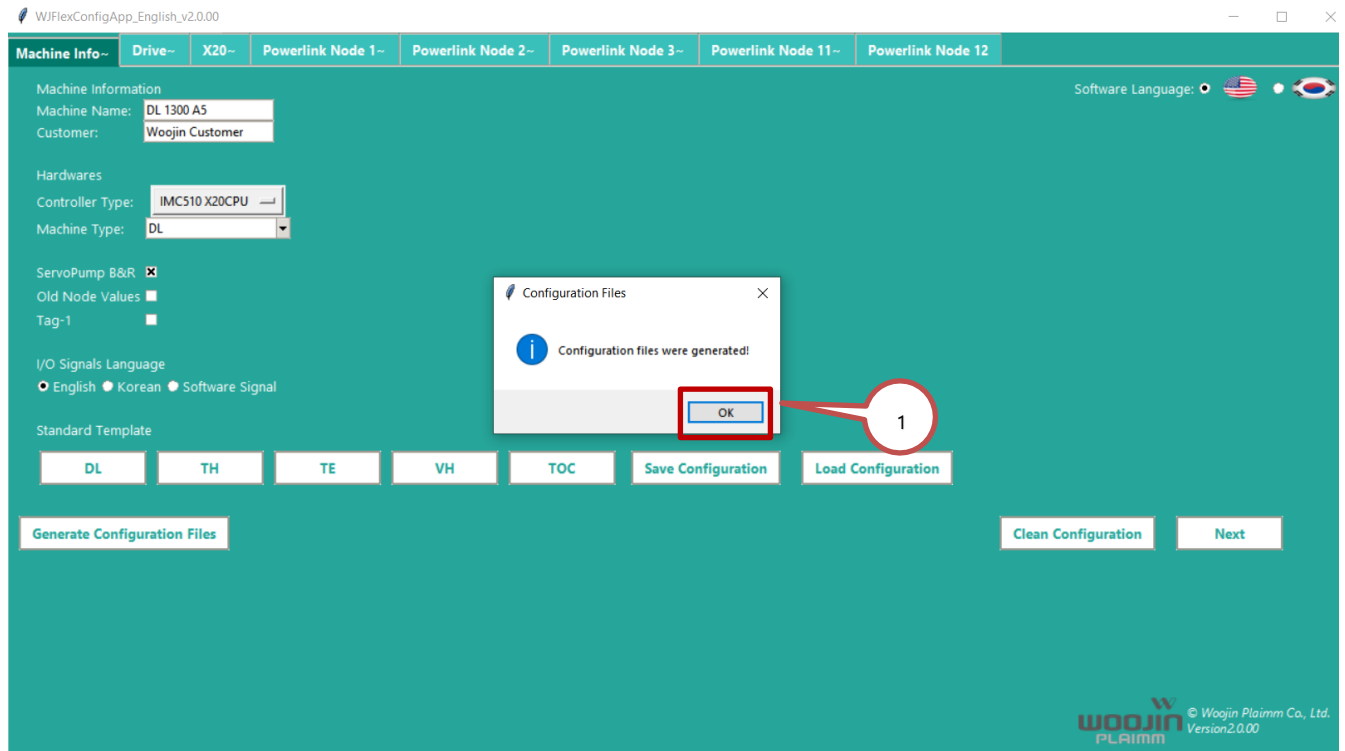
Standard Template
DL TH TE VH TOC Save Configuration Load Configuration

Generate Configuration Files Clean Configuration Next

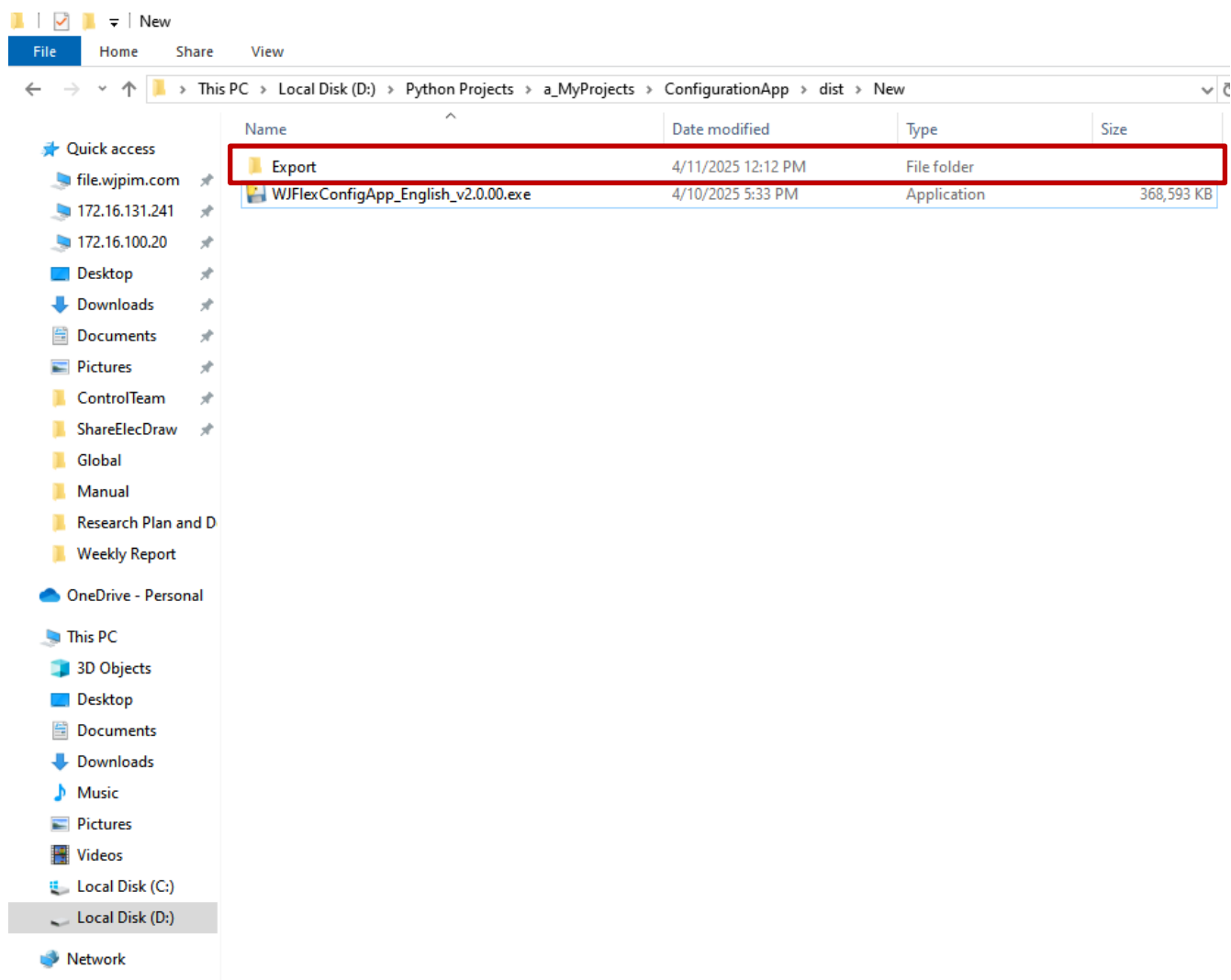
Wootin Plaimm © Wootin Plaimm Co., Ltd. Version 2.0.00

E. One pop-up window appears with the success message „Configuration files were generated!“ to inform the user that the files of the DL machine have been generated successfully.

1. Click on „OK“ to go on to further activities.



F. The user will find the files inside the „Export“ folder, which will be created in the same directory where the software is kept.



G. The generated files.

File | Export

File Home Share View

← → ↶ ↷ This PC > Local Disk (D:) > Python Projects > a_MyProjects > ConfigurationApp > dist > New > Export

Name	Date modified	Type	Size
ConfigHW.xml	4/11/2025 12:12 PM	Microsoft Edge HTML D...	32 KB
ConfigIO.xml	4/11/2025 12:12 PM	Microsoft Edge HTML D...	151 KB
IO_info.CSV	4/11/2025 12:12 PM	Microsoft Excel Comma...	152 KB

Quick access

- file.wjpim.com
- 172.16.131.241
- 172.16.100.20
- Desktop
- Downloads
- Documents
- Pictures
- ControlTeam
- ShareElecDraw
- Global
- Manual
- Research Plan and D
- Weekly Report

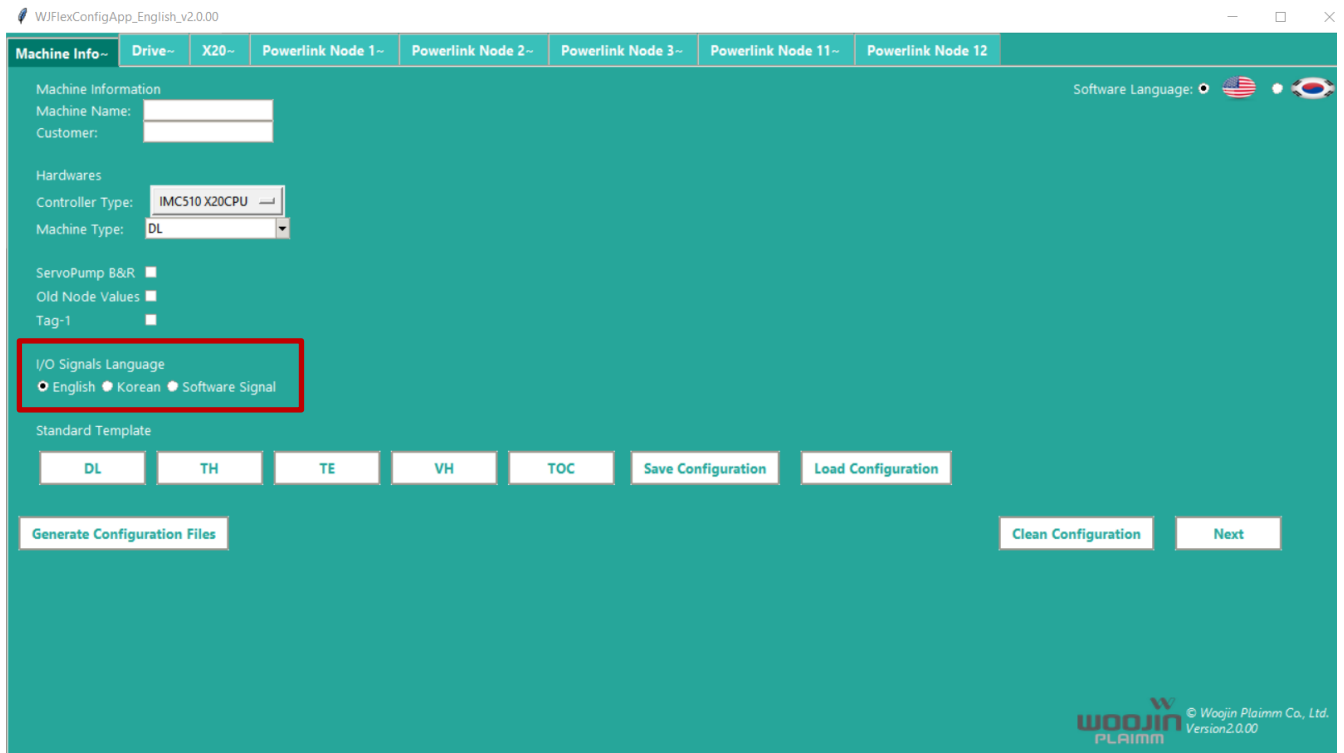
OneDrive - Personal

- This PC
- 3D Objects
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Local Disk (C:)
- Local Disk (D:)
- Network

6.3. “Languages Translation” Operation

A. In the „Machine Info“ (1st page) page, the user will find the available languages for translation.

Note: It is recommended to the engineers except R&D's not to use this. Because for overseas, the version has been set by default as English. The version for Korea has been set by default as Korean.



WJFlexConfigApp_english_v2.0.0.0

Machine Info~ Drive~ X20~ Powerlink Node 1~ Powerlink Node 2~ Powerlink Node 3~ Powerlink Node 11~ Powerlink Node 12

Machine Information
Machine Name:
Customer:

Hardwares
Controller Type: IMC510 X20CPU
Machine Type: DL

ServoPump B&R ☐
Old Node Values ☐
Tag-1 ☐

I/O Signals Language
☒ English ☐ Korean ☐ Software Signal

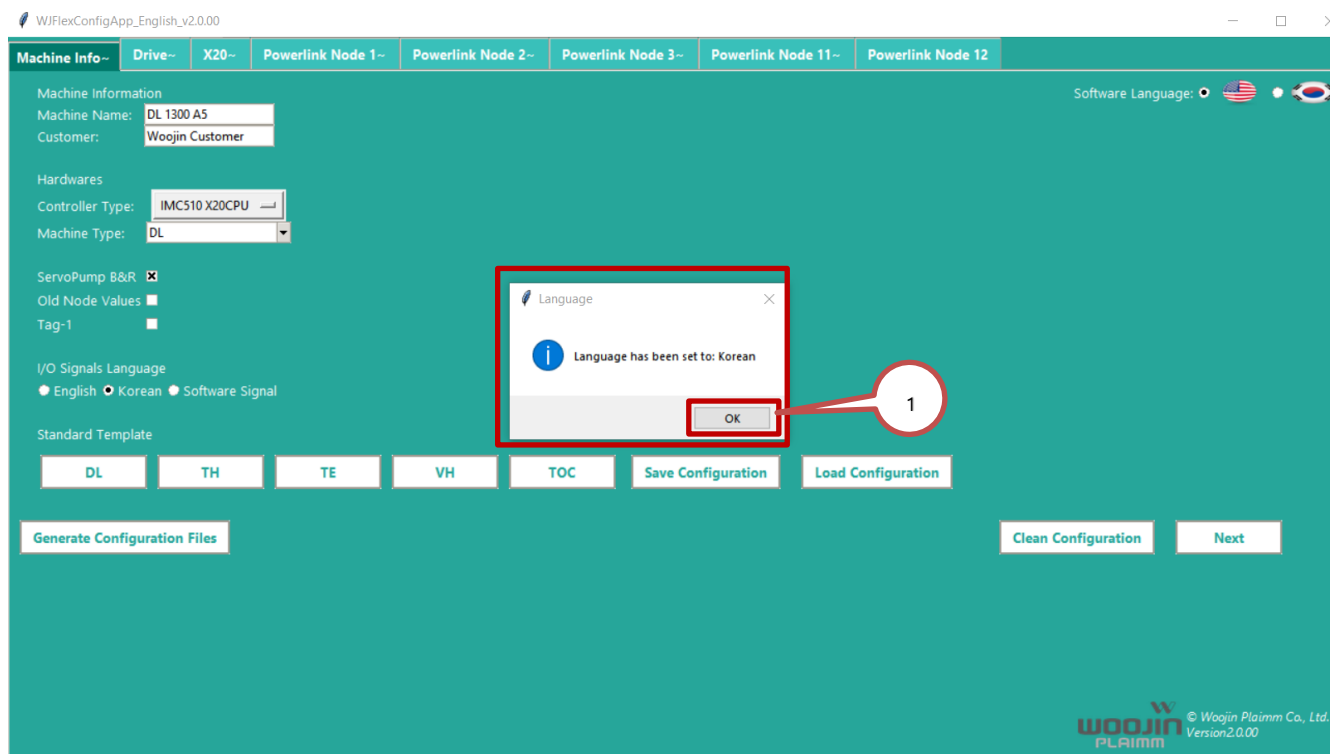
Standard Template
DL TH TE VH TOC Save Configuration Load Configuration

Generate Configuration Files Clean Configuration Next

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B. As an example, the „Korean“ radio button is clicked to show the translation. After some time, the user will see one pop-up window come along with a success message „Language has been set to: Korean“ to inform the user that the language translation has been successfully done.

1. Click on „OK“ to go on to further activities.



C. The language of the signal has been set to Korean.

WJFlexConfigApp_English_v2.0.00

Machine Info~	Drive~	X20~	Powerlink Node 1~	Powerlink Node 2~	Powerlink Node 3~	Powerlink Node 11~	Powerlink Node 12
X20 CPU		0					
Slot ID		ST1		ST2		ST3	ST4
Module Number		0		1		2	3
Module Name		X20AT6402		X20AT2402		X20AI2632	X20DC1178
Channel #1		gAI.Temp.ExternalZone	오일온도		사출압력		사출위치 SSI
Channel #2		노출온도	호퍼온도		노출위치		노출후진완료
Channel #3		바렐온도1					
Channel #4		바렐온도2					작동유 레벨 저하
Channel #5		바렐온도3					안전발판센서
Channel #6		바렐온도4					냉각점프 필터정상
Channel #7							메인블럭 방출열림
Channel #8							계량속도 RPM
Channel #9							안전모듈 정상
Channel #10							
Channel #11							구리스 레벨 저하 (사출)
Channel #12							

Previous Next

WJFlexConfigApp_English_v2.0.00

Machine Info~	Drive~	X20~	Powerlink Node 1~	Powerlink Node 2~	Powerlink Node 3~	Powerlink Node 11~	Powerlink Node 12
Powerlink Station		1					
Slot ID		SL1		PS1		ST2	ST3
Module Number		12		13		14	15
Module Name		X20BC0083		X20PS9400		X20AI4632	X20AI4632a
Channel #1					타이바위치1		메젝터위치
Channel #2					타이바위치2		형체위치 SSI
Channel #3					타이바위치3		형체력
Channel #4					타이바위치4		형체비례 피드백
Channel #5							
Channel #6							
Channel #7							
Channel #8							
Channel #9							
Channel #10							
Channel #11							
Channel #12							

Previous Next

D. (Optional- Only for Korea)

1. If the user selects the Korean flag from the Software Language section, all of the items' names (labels) in the software will be set to Korean.



WJFlexConfigApp_English_v2.0.00

Machine Info~ Drive~ X20~ Powerlink Node 1~ Powerlink Node 2~ Powerlink Node 3~ Powerlink Node 11~ Powerlink Node 12

기계 정보
 기계 이름:
 고객명:

하드웨어
 컨트롤러 종류: IMC510 X20CPU
 기계 유형: DL

서보펌프 B&R ☐
 미전 노드 값 ☐
 태그-1 ☐

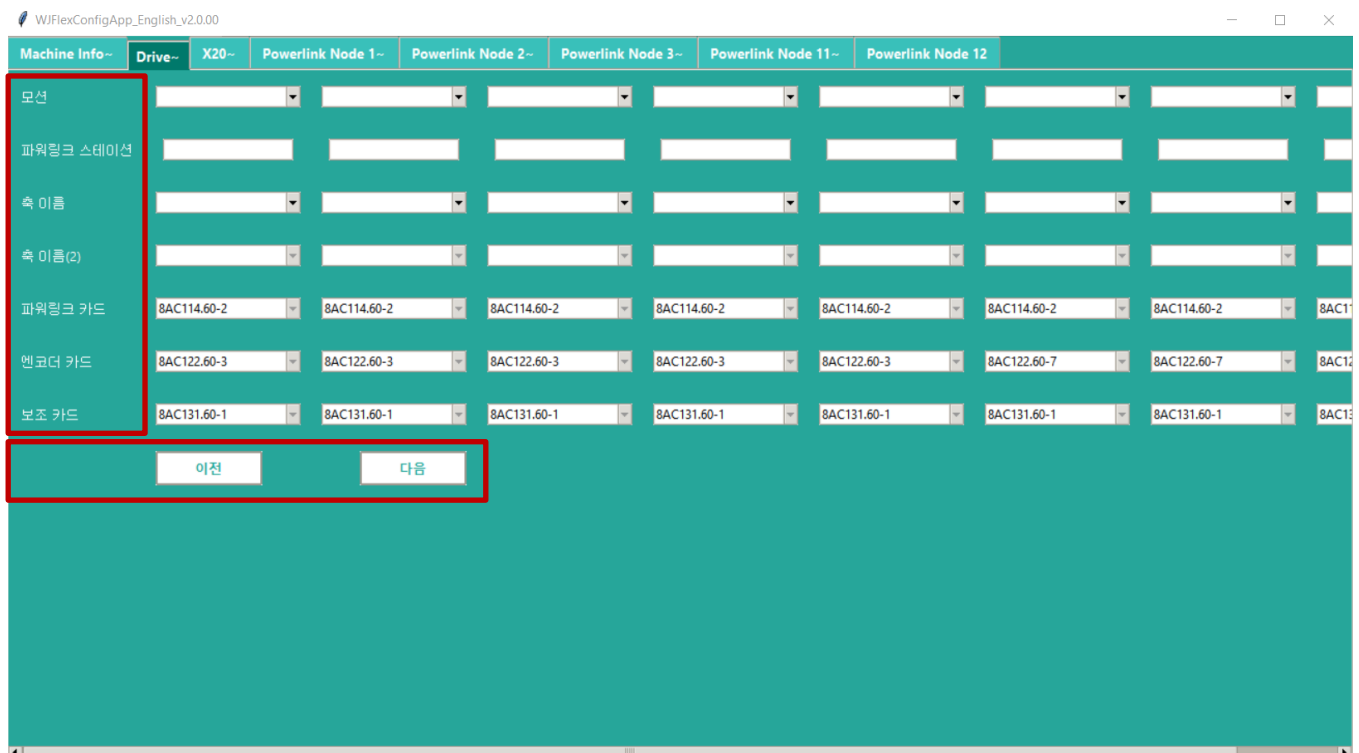
I/O 신호 언어
☒ 영어 ☐ 한국어 ☐ 소프트웨어 신호

표준 템플릿
 DL TH TE VH TOC 설정 저장 설정 불러오기

구성 파일 생성

설정 초기화 다음

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WJFlexConfigApp_English_v2.0.00

Machine Info~ Drive~ X20~ Powerlink Node 1~ Powerlink Node 2~ Powerlink Node 3~ Powerlink Node 11~ Powerlink Node 12

모션
 파워링크 스테이션
 축 이름
 축 이름(2)
 파워링크 카드
 엔코더 카드
 보조 카드

이전 다음

WJFlexConfigApp_English_v2.0.00

— □ ×

Machine Info~	Drive~	X20~	Powerlink Node 1~	Powerlink Node 2~	Powerlink Node 3~	Powerlink Node 11~	Powerlink Node 12
X20 씨퓨	0						
슬롯 ID	ST1		ST2		ST3		ST4
모델 번호							
모델 이름							
채널 #1							
채널 #2							
채널 #3							
채널 #4							
채널 #5							
채널 #6							
채널 #7							
채널 #8							
채널 #9							
채널 #10							
채널 #11							
채널 #12							

이전
다음

WJFlexConfigApp_English_v2.0.00

— □ ×

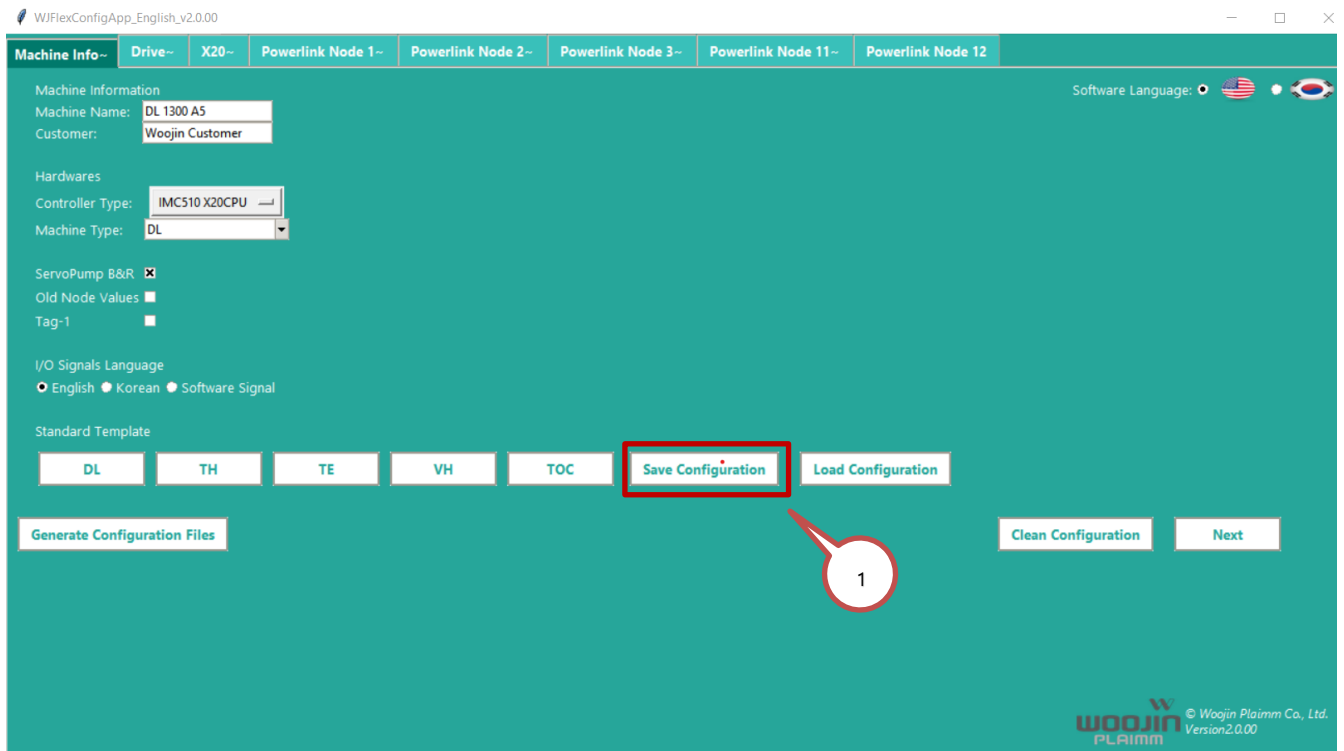
Machine Info~	Drive~	X20~	Powerlink Node 1~	Powerlink Node 2~	Powerlink Node 3~	Powerlink Node 11~	Powerlink Node 12
파워링크 스테이션	1						
슬롯 ID	SL1		PS1		ST2		ST3
모델 번호							
모델 이름							
채널 #1							
채널 #2							
채널 #3							
채널 #4							
채널 #5							
채널 #6							
채널 #7							
채널 #8							
채널 #9							
채널 #10							
채널 #11							
채널 #12							

이전
다음

6.4. “Save Configuration” Operation

A. In the „Machine Info“ (1st page), the user will find the „Save Configuration“ button to save the current configuration to use next time.

1. Click on the „Save Configuration“ button to save the configuration.



WIFlexConfigApp_english_v2.0.00

Machine Info ~ Drive ~ X20 ~ Powerlink Node 1 ~ Powerlink Node 2 ~ Powerlink Node 3 ~ Powerlink Node 11 ~ Powerlink Node 12

Machine Information

Machine Name: DL 1300 A5

Customer: Woon Customer

Hardwares

Controller Type: IMC510 X20CPU

Machine Type: DL

ServoPump B&R ☒

Old Node Values ☐

Tag-1 ☐

I/O Signals Language

☒ English ☐ Korean ☐ Software Signal

Standard Template

DL TH TE VH TOC **Save Configuration** Load Configuration

Generate Configuration Files

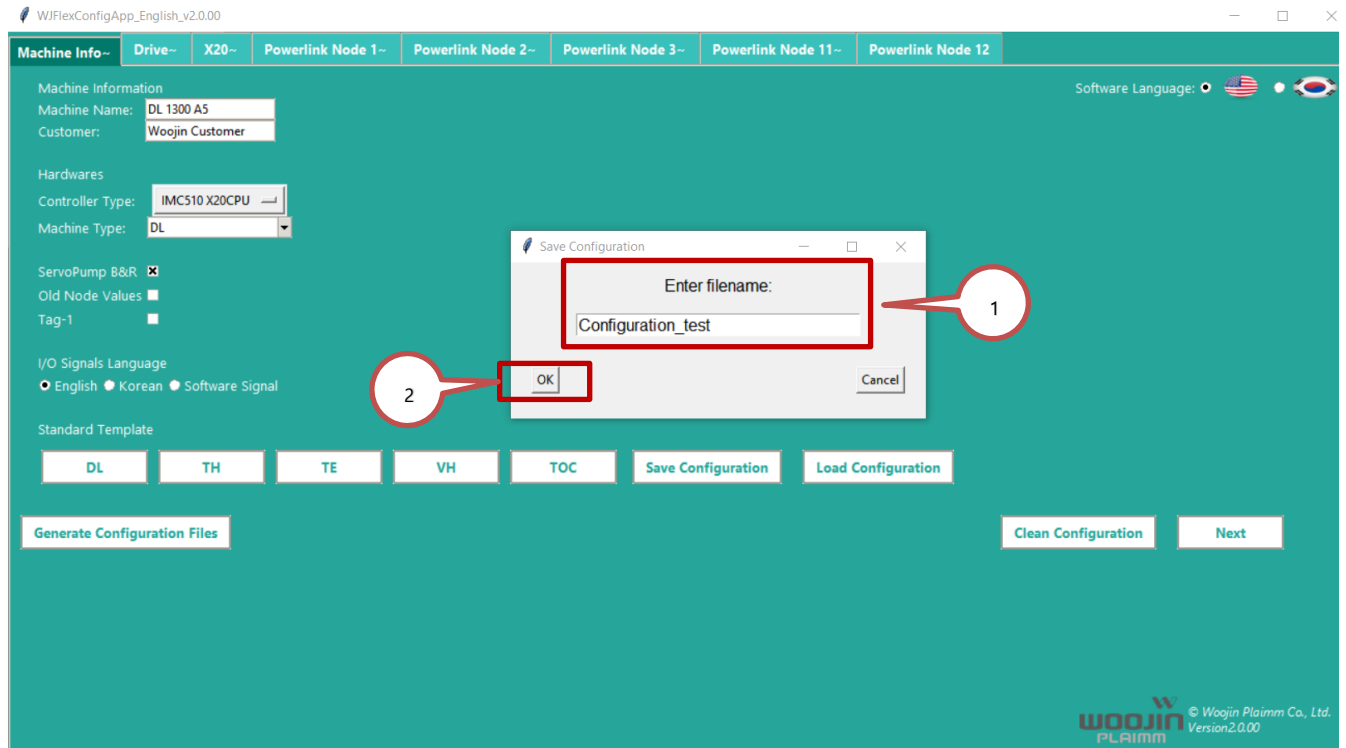
Clean Configuration Next

1

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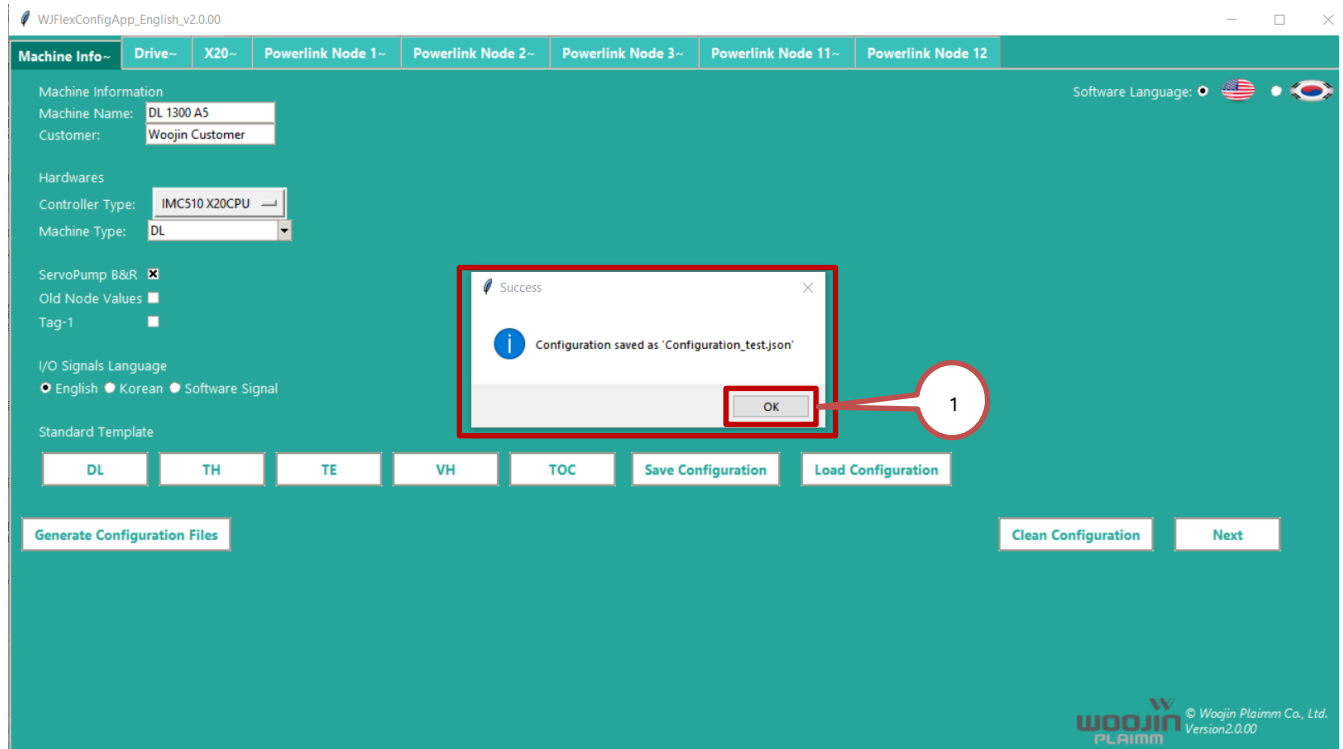
B. One pop-up window will come where the user can set the name of the current configuration.

1. Please input a name of the current configuration, which must be unique.
2. Press „OK“ to allow the activity to perform.

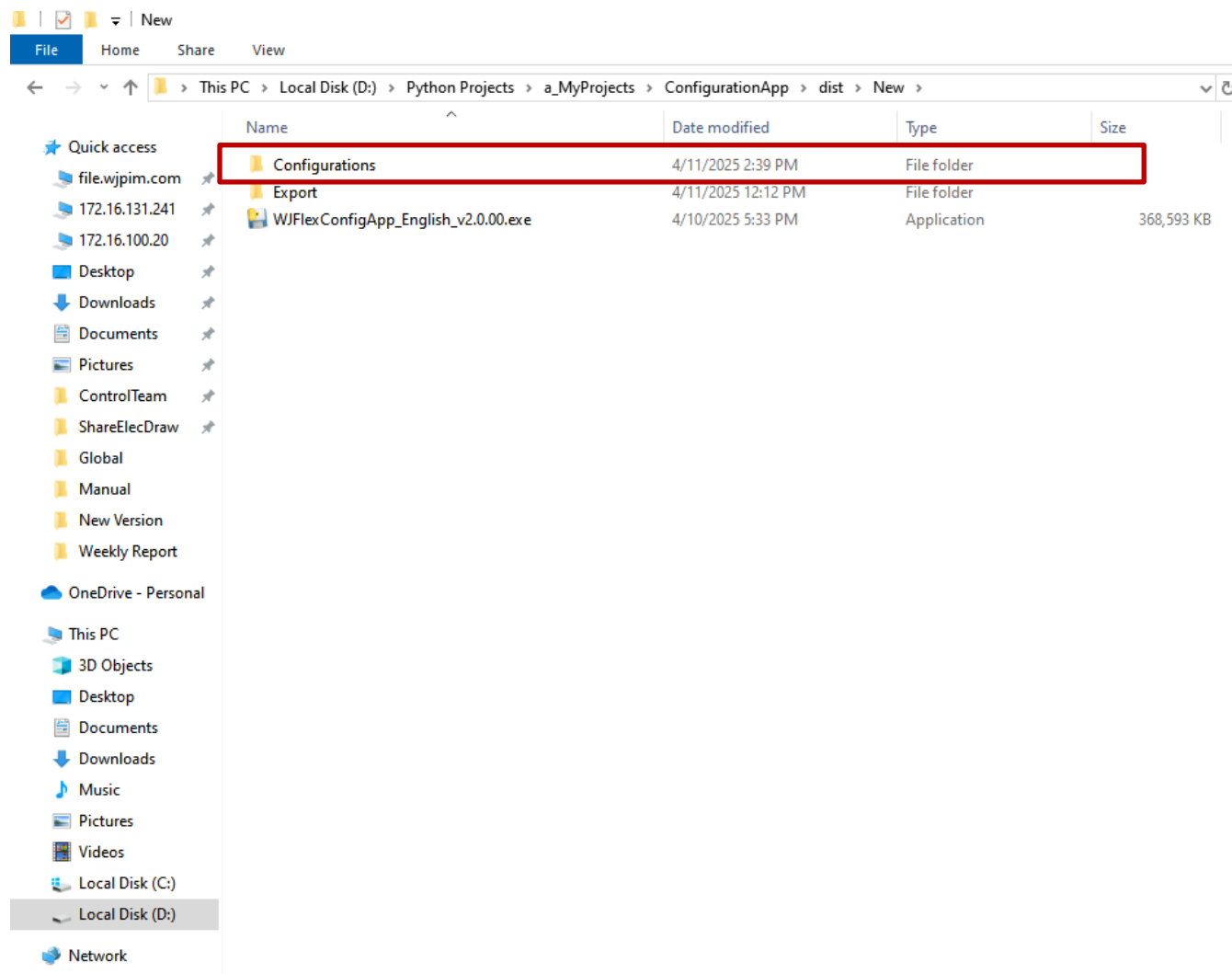


C. One pop-up window comes along with a success message: „Configuration saved as ,your_filename.json‘ “ to inform the user that the current configuration file has been successfully created.

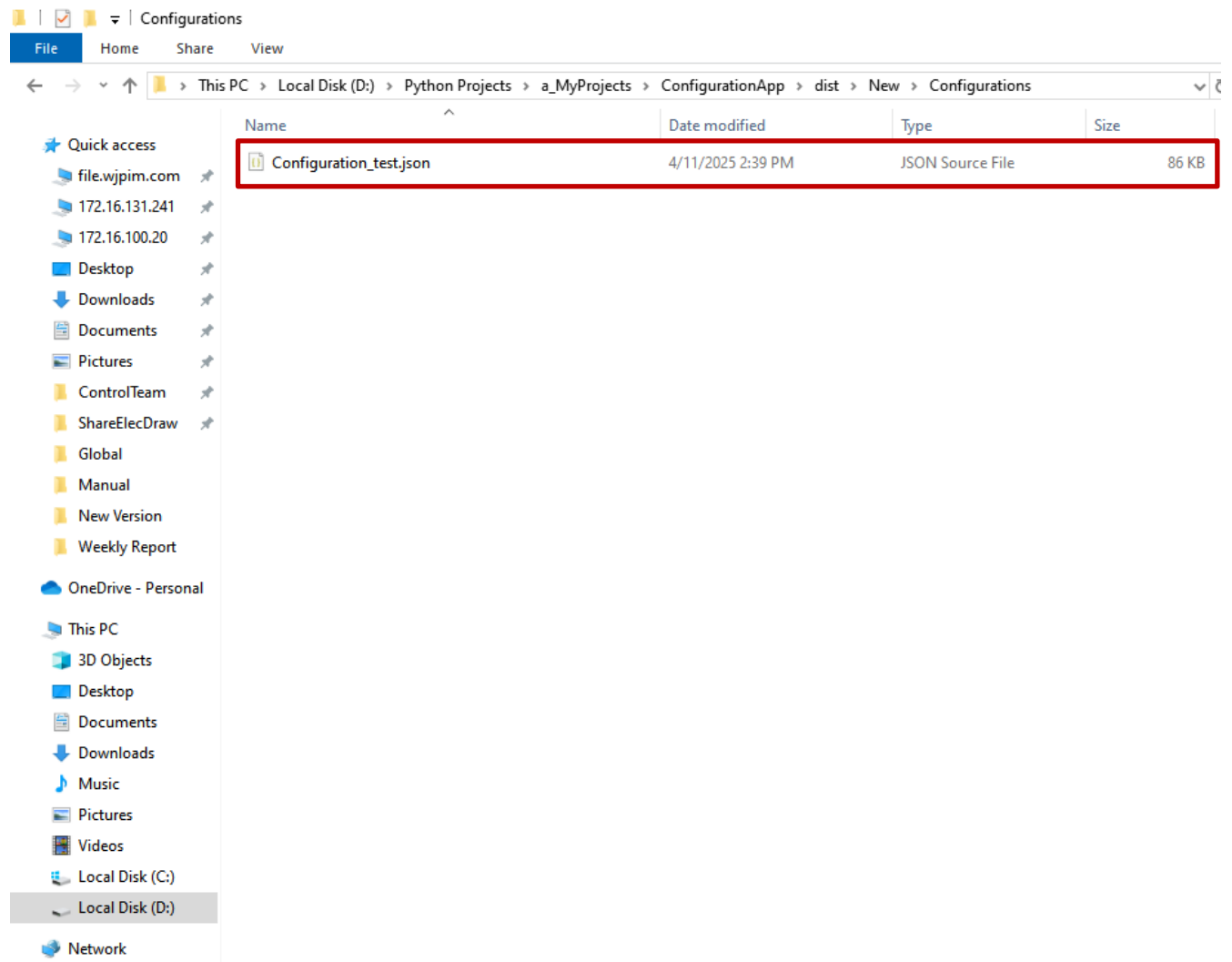
1. Click on „OK“ to go on to further activities.



D. The user will find the saved current configuration file inside the „Configurations“ folder, which will be created in the same directory where the software is kept.



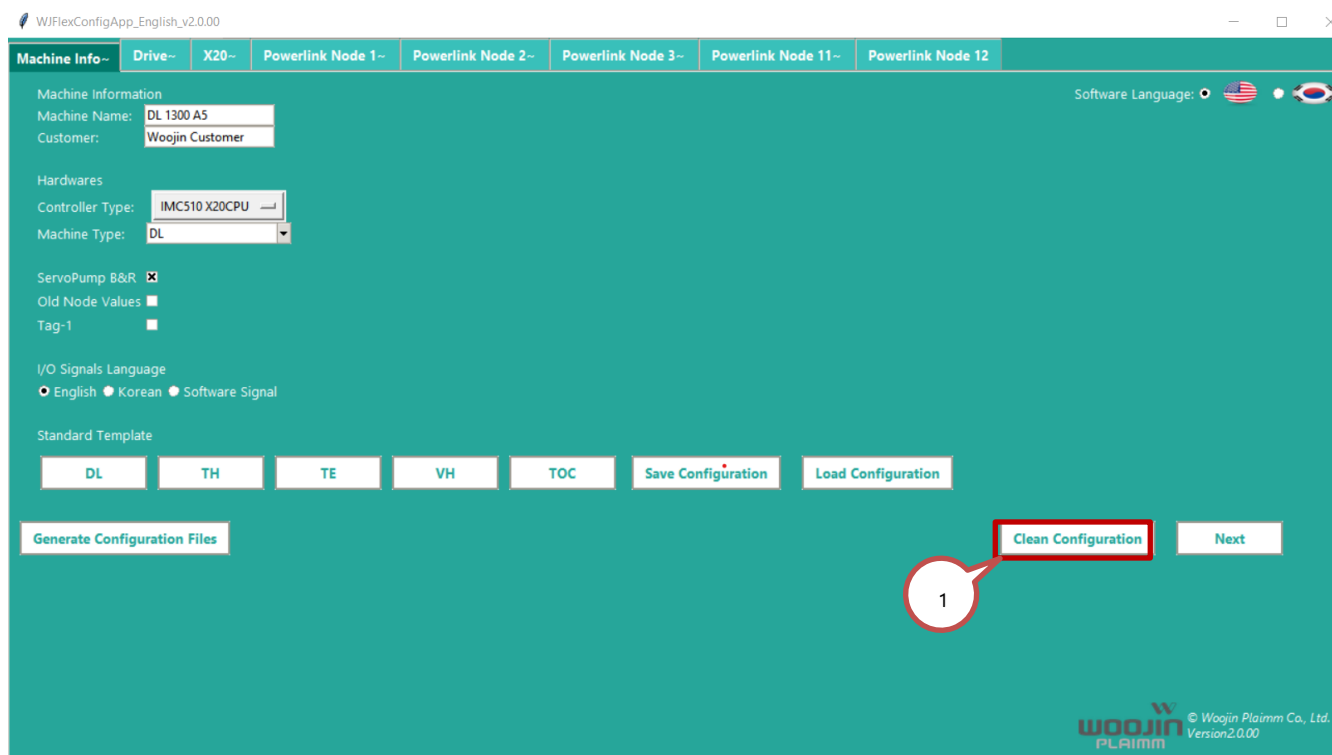
E. Here is the saved configuration file. The file is in „JSON“ format.



6.5. “Clean Configuration” Operation

A. In the „Machine Info“ (1st page), the user will find the „Clean Configuration“ button to clean the current configuration.

1. Click the „Clean Configuration“ button to clean the configuration.



WIFlexConfigApp_english_v2.0.00

Machine Info ~ Drive ~ X20 ~ Powerlink Node 1 ~ Powerlink Node 2 ~ Powerlink Node 3 ~ Powerlink Node 11 ~ Powerlink Node 12

Machine Information

Machine Name: DL 1300 A5

Customer: Woon Customer

Hardwares

Controller Type: IMC510 X20CPU

Machine Type: DL

ServoPump B&R ☒

Old Node Values ☐

Tag-1 ☐

I/O Signals Language

☒ English ☐ Korean ☐ Software Signal

Standard Template

DL TH TE VH TOC Save Configuration Load Configuration

Generate Configuration Files

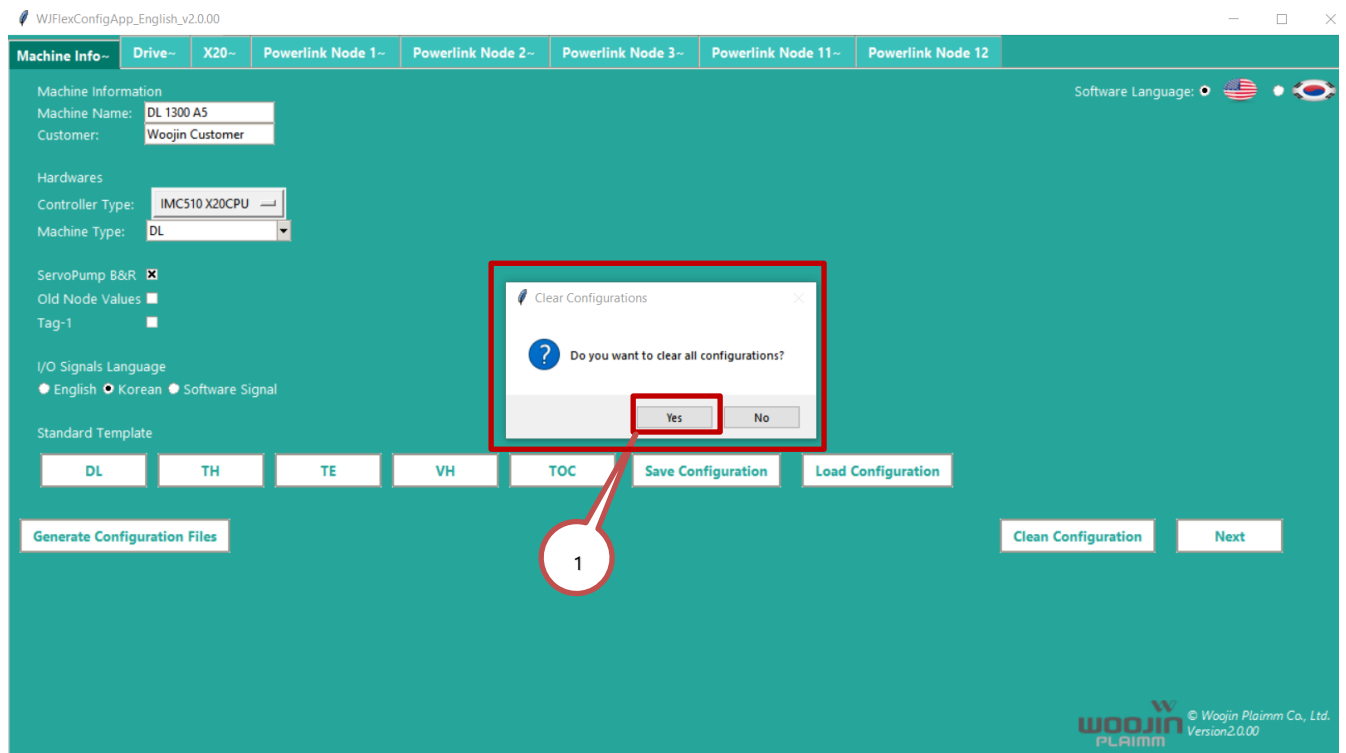
Clean Configuration Next

1

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B. One pop-up window will ask the user whether the user would like to clean the configuration.

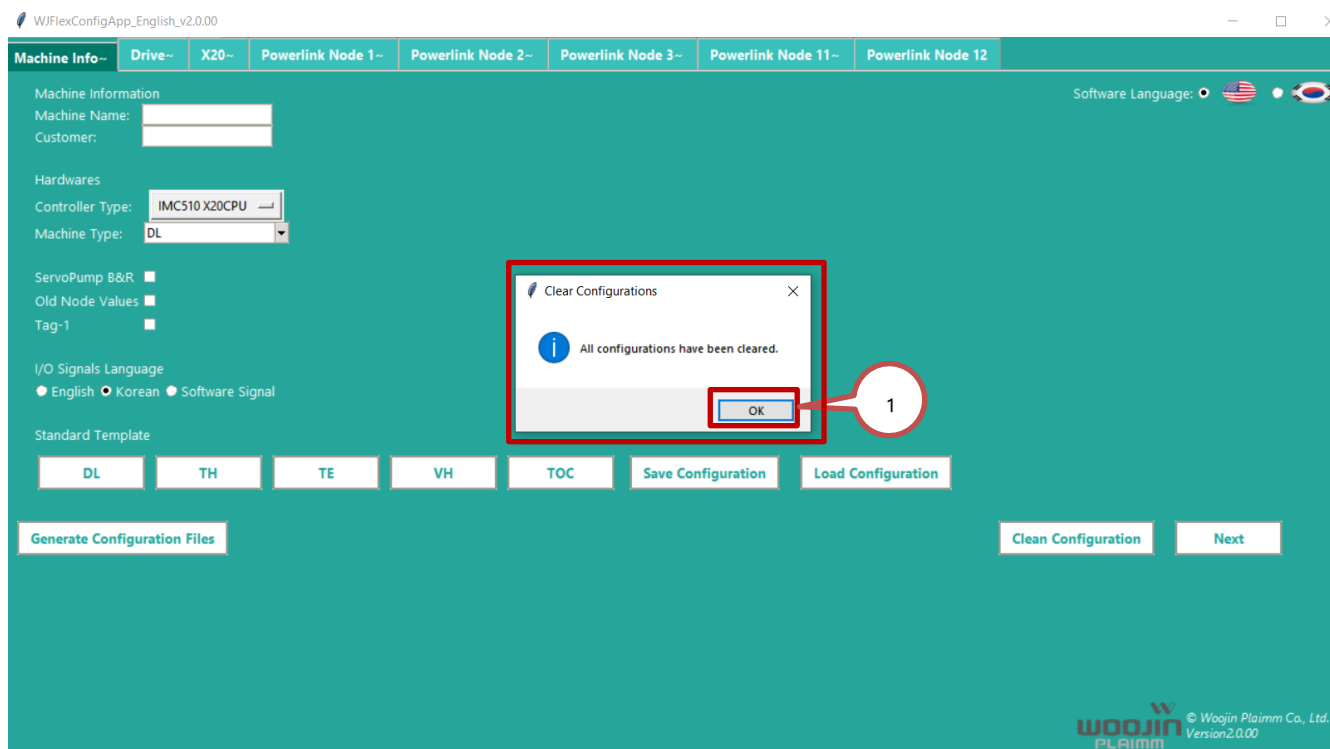
1. Press „Yes“ to allow the activity.



C. One pop-up window comes with a success message: „All configurations have been cleared“ to inform the user that the current configurations have been successfully cleared.

1. Click on „OK“ to go on to further activities.

Note: Every information page except the „Machine info“ (1st page) has been cleared.



D. The configurations have been cleared.

WJFlexConfigApp_English_v2.0.00

Machine Info~	Drive~	X20~	Powerlink Node 1~	Powerlink Node 2~	Powerlink Node 3~	Powerlink Node 11~	Powerlink Node 12
Motion							
Powerlink Station							
Axis Name							
Axis Name(2)							
Powerlink Card	8AC114.60-2	8AC114.60-2	8AC114.60-2	8AC114.60-2	8AC114.60-2	8AC114.60-2	8AC114.60-2
Encoder Card	8AC122.60-3	8AC122.60-3	8AC122.60-3	8AC122.60-3	8AC122.60-3	8AC122.60-7	8AC122.60-7
Auxillary Card	8AC131.60-1	8AC131.60-1	8AC131.60-1	8AC131.60-1	8AC131.60-1	8AC131.60-1	8AC131.60-1
Previous		Next					

WJFlexConfigApp_English_v2.0.00

Machine Info~	Drive~	X20~	Powerlink Node 1~	Powerlink Node 2~	Powerlink Node 3~	Powerlink Node 11~	Powerlink Node 12
X20 CPU	0						
Slot ID	ST1		ST2		ST3		ST4
Module Number							
Module Name							
Channel #1							
Channel #2							
Channel #3							
Channel #4							
Channel #5							
Channel #6							
Channel #7							
Channel #8							
Channel #9							
Channel #10							
Channel #11							
Channel #12							
Previous		Next					

WJFlexConfigApp_English_v2.0.00

Machine Info~

Drive~

X20~

Powerlink Node 1~

Powerlink Node 2~

Powerlink Node 3~

Powerlink Node 11~

Powerlink Node 12

Powerlink Station	1				
Slot ID	SL1	PS1	ST2	ST3	ST4
Module Number					
Module Name					
Channel #1					
Channel #2					
Channel #3					
Channel #4					
Channel #5					
Channel #6					
Channel #7					
Channel #8					
Channel #9					
Channel #10					
Channel #11					
Channel #12					

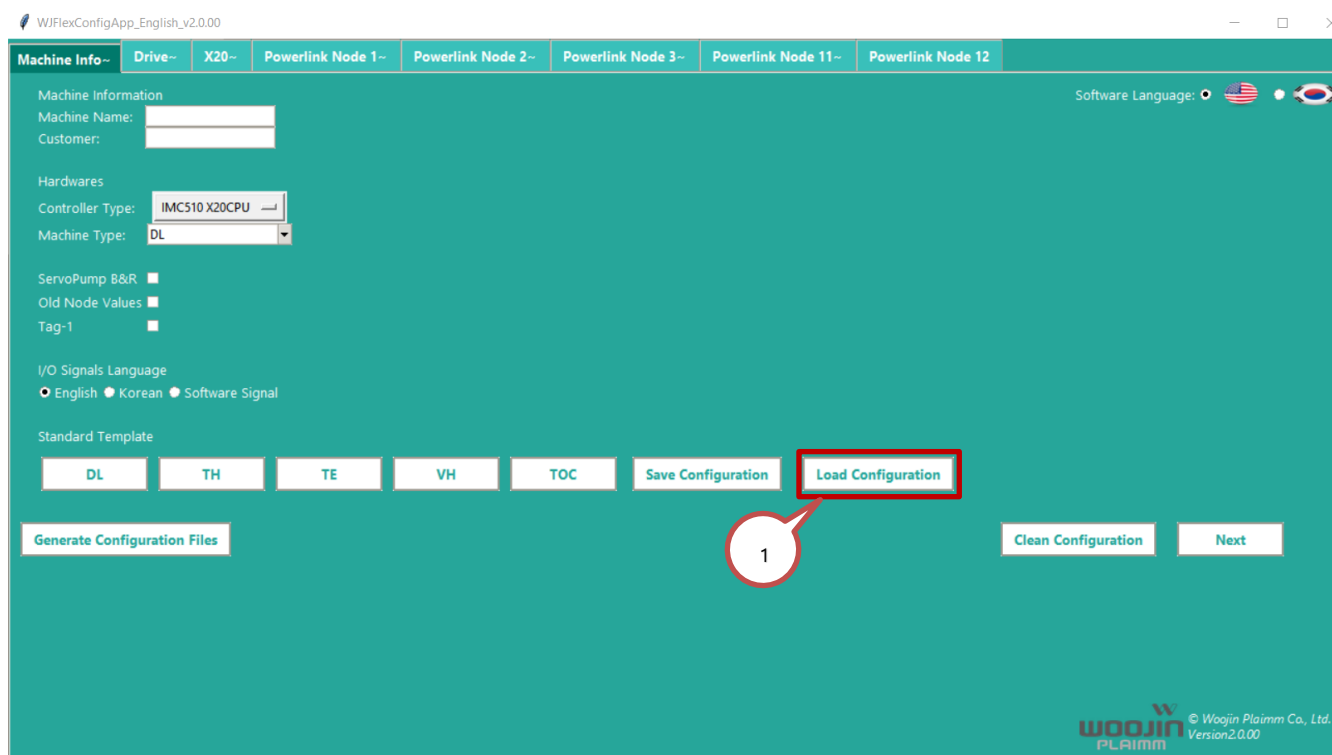
Previous

Next

6.6. "Load Configuration" Operation

A. In the „Machine Info“ (1st page), the user will find the „Load Configuration“ button to load the previously saved configuration to use.

1. Press the „Load Configuration“ button to load the configuration.
2. Go to the path where the file is located.
3. Choose the file and click on „Open“.
4. If the file is successfully loaded, the user will see the change of the „Machine Info“ (1st page) page, and one pop-up window will come to inform the user which language is selected as per the saved file's information. Press „OK“ to do the following activities.
5. One pop-up window comes with a success message, „All configurations have been loaded successfully, " informing the user that the saved configurations have been successfully loaded. Click on „OK“ to go on to further activities.



WJFlexConfigApp_english_v2.0.00

Machine Info~ Drive~ X20~ Powerlink Node 1~ Powerlink Node 2~ Powerlink Node 3~ Powerlink Node 11~ Powerlink Node 12

Machine Information

Machine Name:

Customer:

Hardwares

Controller Type:

Machine Type:

ServoPump B&R ☐

Old Node Values ☐

Tag-1 ☐

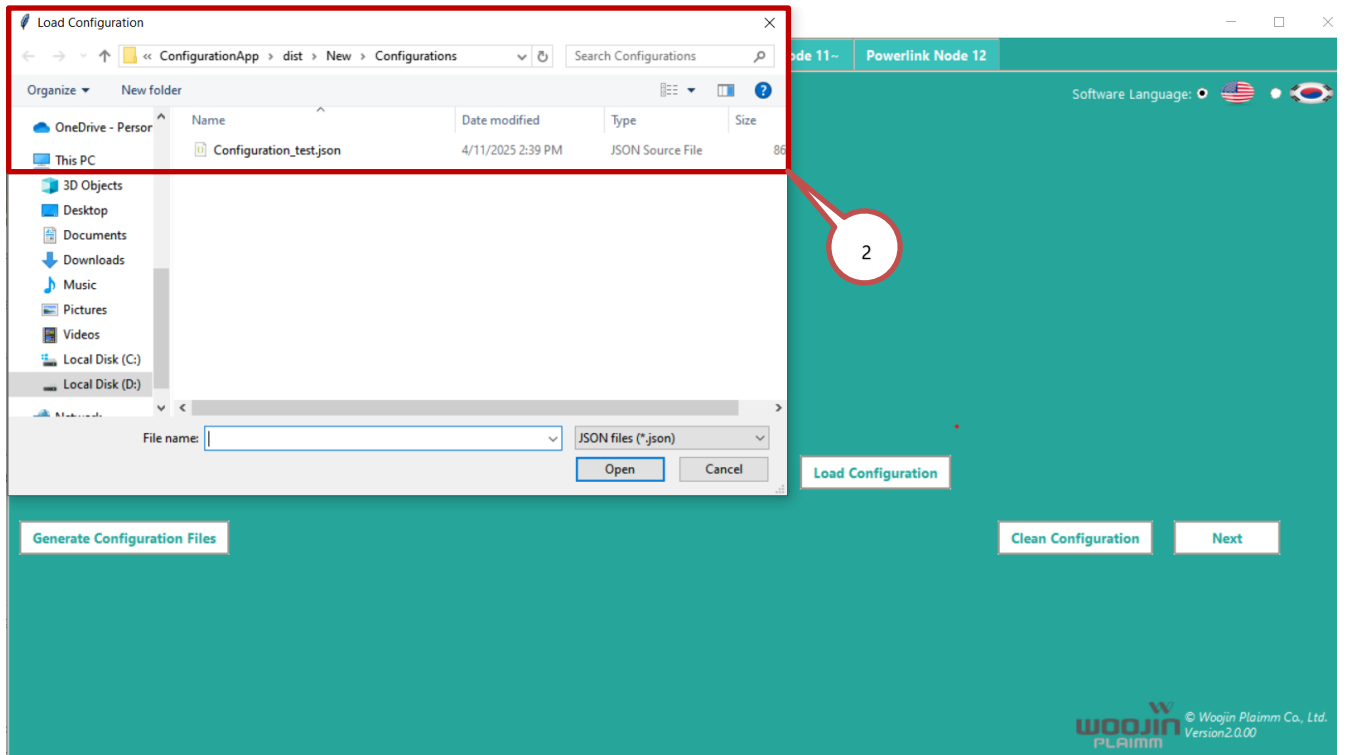
I/O Signals Language

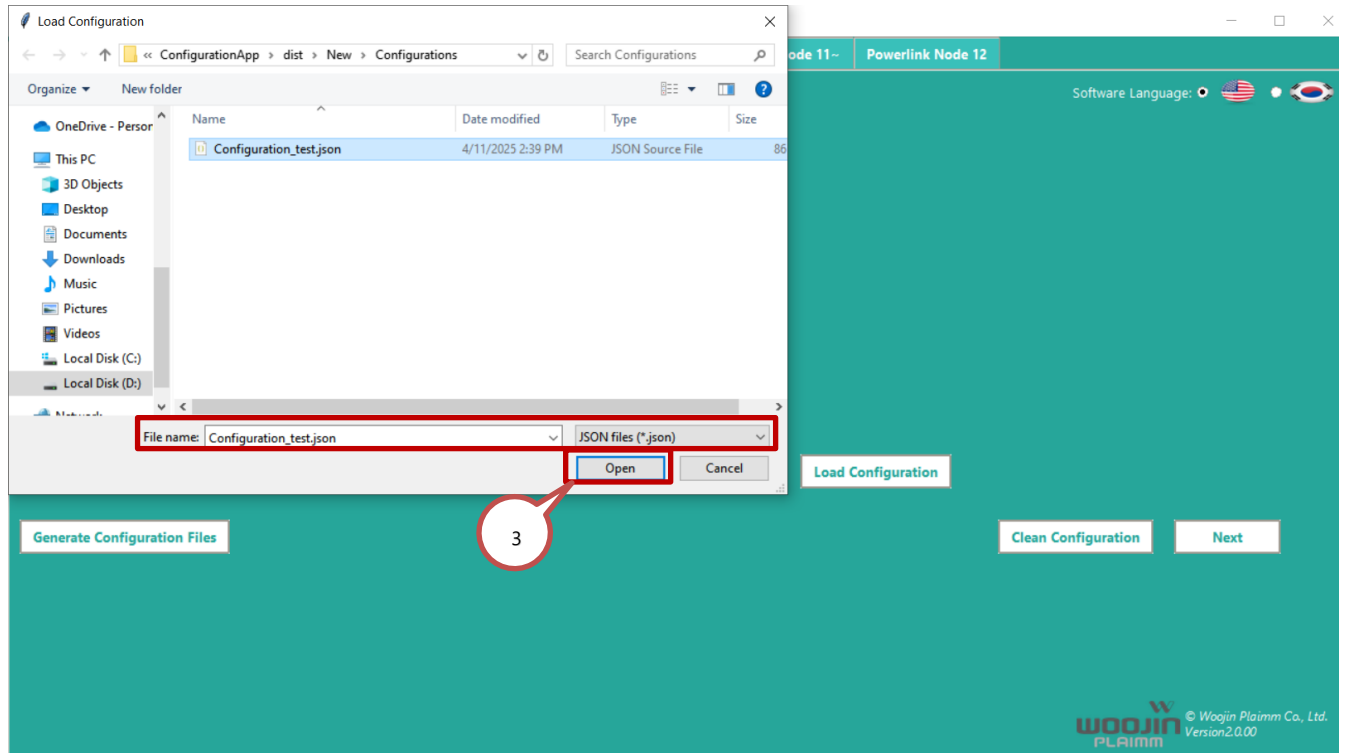
☒ English ☐ Korean ☐ Software Signal

Standard Template

1

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WJFlexConfigApp_English_v2.0.00

Machine Info~ Drive~ X20~ Powerlink Node 1~ Powerlink Node 2~ Powerlink Node 3~ Powerlink Node 11~ Powerlink Node 12

Machine Information
Machine Name: DL 1300 A5
Customer: Woojin Customer

Software Language:

Hardwares
Controller Type: IIMC510 X20CPU
Machine Type: DL

ServoPump B&R ☒
Old Node Values ☐
Tag-1 ☐

I/O Signals Language
☒ English ☐ Korean ☐ Software Signal

Standard Template
DL TH TE VH TOC Save Configuration Load Configuration

Generate Configuration Files Clean Configuration Next

Language

Language has been set to: English

OK

4

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Version 2.0.00

Machine Info~ Drive~ X20~ Powerlink Node 1~ Powerlink Node 2~ Powerlink Node 3~ Powerlink Node 11~ Powerlink Node 12

Machine Information

Machine Name: DL 1300 A5

Customer: Woojin Customer

Hardwares

Controller Type: IMC510 X20CPU

Machine Type: DL

ServoPump B&R: ☒

Old Node Values: ☐

Tag-1: ☐

I/O Signals Language

☒ English ☐ Korean ☐ Software Signal

Standard Template

DL TH TE VH TOC Save Configuration Load Configuration

Generate Configuration Files

Clean Configuration Next

Software Language:

Success

Configuration 'D:/Python Projects/a_MyProjects/ConfigurationApp/dist/New/Configurations/Configuration_test.json' is loaded successfully.

OK

3

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B. The saved configuration file information has been loaded successfully in the designated places.

WJFlexConfigApp_English_v2.0.00

Machine Info~	Drive~	X20~	Powerlink Node 1~	Powerlink Node 2~	Powerlink Node 3~	Powerlink Node 11~	Powerlink Node 12~
Motion	B&R	KEB					
Powerlink Station	17	18					
Axis Name	Pump1	Pump2					
Axis Name(2)							
Powerlink Card	8AC114.60-2	8AC114.60-2	8AC114.60-2	8AC114.60-2	8AC114.60-2	8AC114.60-2	8AC114.60-2
Encoder Card	8AC122.60-3	8AC122.60-3	8AC122.60-3	8AC122.60-3	8AC122.60-3	8AC122.60-7	8AC122.60-7
Auxillary Card	8AC131.60-1	8AC131.60-1	8AC131.60-1	8AC131.60-1	8AC131.60-1	8AC131.60-1	8AC131.60-1
Previous Next							

WJFlexConfigApp_English_v2.0.00

Machine Info~	Drive~	X20~	Powerlink Node 1~	Powerlink Node 2~	Powerlink Node 3~	Powerlink Node 11~	Powerlink Node 12~
X20 CPU		0					
Slot ID		ST1		ST2		ST3	ST4
Module Number		0		1		2	3
Module Name		X20AT6402		X20AT2402		X20AI2632	X20DC1178
Channel #1		gAl.Temp.ExternalZone		Oil Temperature		Inject Pressure	Inject Position SSI
Channel #2		Nozzle Temperature		Hopper Temperature		Carriage Position	Carriage Backward End
Channel #3		Barrel 1 Temperature					
Channel #4		Barrel 2 Temperature					Hydraulic Oil Level Low
Channel #5		Barrel 3 Temperature					Safety Footing Sensor
Channel #6		Barrel 4 Temperature					Cooling Pump Filter N
Channel #7							Main Block Drain Open
Channel #8							Screw RPM
Channel #9							Safety PLC OK
Channel #10							
Channel #11							Grease Level Low Inject
Channel #12							
Previous Next							

Machine Info~	Drive~	X20~	Powerlink Node 1~	Powerlink Node 2~	Powerlink Node 3~	Powerlink Node 11~	Powerlink Node 12~
Powerlink Station		1					
Slot ID		SL1		PS1		ST2	ST3
Module Number		12		13		14	15
Module Name		X20BC0083		X20PS9400		X20AI4632	X20AI4632a
Channel #1					Tiebar Position 1	Ejector Position	Clamp Position SSI
Channel #2					Tiebar Position 2	Clamp Lock Pressure	
Channel #3					Tiebar Position 3	Clamp Prop Feedback	
Channel #4					Tiebar Position 4		
Channel #5							
Channel #6							
Channel #7							
Channel #8							
Channel #9							
Channel #10							
Channel #11							
Channel #12							
		Previous		Next			

6.7. "Exit" Operation

A. The user can exit the application from any page by clicking the „X“ icon. It is recommended that the user exit from the application using the „Exit“ button located on the „Powerlink Node 12“ (last page) page.

1. The user can close the application by clicking the „X“ icon. Or,
2. Click on the „Exit“ button to close the application.
3. One pop-up window will appear to ask the user whether the user would like to exit the application. Click on „Yes“ to exit from the application.
4. One pop-up window comes with a success message, „Application successfully quit.“ This informs the user that the application is finally closed.

Click on „OK“ to finish the application activities.

WJFlexConfigApp_English_v2.0.00

Machine Info~ Drive~ X20~ Powerlink Node 1~ Powerlink Node 2~ Powerlink Node 3~ Powerlink Node 11~ Powerlink Node 12

Powerlink Station: 12

Slot ID: SL1 PS1 ST2 ST3 ST4

Module Number:

Module Name:

Channel #1 to Channel #12:

Previous Exit

WJFlexConfigApp_English_v2.0.00

Machine Info~ Drive~ X20~ Powerlink Node 1~ Powerlink Node 2~ Powerlink Node 3~ Powerlink Node 11~ Powerlink Node 12

Powerlink Station 12

Slot ID SL1 PS1 ST2 ST3 ST4

Module Number

Module Name

Channel #1

Channel #2

Channel #3

Channel #4

Channel #5

Channel #6

Channel #7

Channel #8

Channel #9

Channel #10

Channel #11

Channel #12

Previous Exit

3

Quit

Do you really wish to quit?

Yes No

File Home Share View

This PC > Local Disk (D:) > Python Projects > a_MyProjects > ConfigurationApp > dist > New

Name	Date modified	Type	Size
Configurations	4/11/2025 2:39 PM	File folder	
Export	4/11/2025 12:12 PM	File folder	
WJFlexConfigApp_English_v2.0.00.exe	4/10/2025 5:33 PM	Application	368,593 KB

Quit

Application successfully quit.

OK

4

7. Additional

It is highly recommended that users watch the video (WATCHME.mp4) for better understanding.