



AutoShop V4.11.0.0 Release Notes



Industrial
Automation



New Energy
Vehicle



Intelligent
Elevator



Intelligent
Robot



Digital
Energy



Rail
Transit



Data code 19012893A01

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1 Legal Information

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Disclaimer of Liability

Due to continuous updates and improvements of products and technologies, the content of this documentation may not fully match the actual products. In the event of any discrepancies, the actual products shall prevail.

The contents are subject to change without notice due to product upgrade.

Waste Disposal

The storage, use, and disposal of this product (including optional accessories) must comply with local laws and regulations.

Qualified Personnel

The product/system described in this documentation may be operated only by personnel qualified for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions.

Qualified personnel can identify the risks of the product/system and prevent possible dangers.

Proper Use of the Product

Proper transportation, storage, assembly, installation, commissioning, operation, and maintenance are required to ensure the safe operation of the product without any problems. The required ambient conditions must be met. All operations must follow the guidelines provided in this documentation.

2 Introduction

Introduction

This document describes general information of AutoShop V4.11.0.0, firmware versions, software versions, compatibility notes, and frequently asked questions. Please read through this document before using the product.

More Data

Data Name	Data Code	Description
H5U & Easy Series Programmable Logic Controller Instruction Guide	19012250	Describes the basic instructions and complex instructions used for programming applications, as well as examples of these instructions.
H5U and Easy Series Programmable Logic Controller Programming Guide	19012249	Describes the basic knowledge of PLC programming, quick start guidance, communication, motion control, and the use of high-speed counters.
AutoShop V4.11.0.0 Release Notes (this document)	19012893	Describes general information of AutoShop V4.11.0.0, firmware versions, software versions, compatibility notes, and frequently asked questions.

Revision History

Date	Version	Description
October 2025	A01	Updated version descriptions in 4.1.1 Firmware Information .
September 2025	A00	Initial release.

Applicability

This document is applicable to AutoShop V4.11.0.0.

Relevant guides:

- H5U & Easy Series Programmable Logic Controller Instruction Guide (19012250) - A20
- H5U and Easy Series Programmable Logic Controller Programming Guide (19012249) - A19

Access to the Guide

This guide is not in the scope of delivery. If necessary, you can download the PDF file in the following ways:

- Do keyword search under Service and Support at <http://www.inovance.com>.
- Scan the QR code on the product with your smart phone.
- Scan the QR code below to install **My Inovance** app, where you can search for and download user guides.



Warranty Disclaimer

If your product becomes defective under normal use conditions, we will offer guaranteed repair services within the warranty period. Maintenance will be charged after the warranty period expires.

Even in the warranty period, a maintenance fee will be charged for repair of the following damage:

- Damage caused by operations not following the instructions in the guide
- Damage caused by fire, flood, or abnormal voltage
- Damage caused by unintended use of the product
- Damage caused by use beyond the specified scope of application of the product
- Damage or secondary damage caused by force majeure (such as natural disaster, earthquake, and lightning strike)

The maintenance fee will be charged according to our latest Price List if not otherwise agreed upon.

For details, see the Product Warranty Card.

3 Product Information

3.1 Overview

AutoShop is programming configuration software provided by Inovance for small-sized programmable logic controllers (PLCs). It provides a user-friendly programming and commissioning environment, along with various powerful communication and control functions. AutoShop supports multiple programming languages, including the ladder diagram (LD), sequential function chart (SFC), and structured text (LiteST).

AutoShop has the following features:

- Flexible communication mode: AutoShop can interact with PLCs through COM, USB, and Ethernet, greatly facilitating remote operation and collaborative commissioning through remote functions.
- Powerful network support: AutoShop supports Modbus standard, CANopen, and Inovance CANlink communication configurations, significantly reducing user complexity and improving work efficiency.
- Powerful motion control function: AutoShop offers a rich set of motion control instructions, covering axis positioning, electronic cam, and flying shear/chasing shear.
- Convenient and diverse commissioning methods: AutoShop supports motion profile graphs, monitoring, online modification, oscilloscope, and fault diagnosis, making it easy for users to debug and troubleshoot issues.
- Powerful intellectual property protection: AutoShop provides functions such as upload passwords, download passwords, identifiers, and upload restrictions to effectively protect users' intellectual property.

3.2 Installation Environment

The following table lists the PC requirements for installing the AutoShop programming software.

Item	Requirement
Operating system	• Microsoft Windows 7 (64-bit recommended) • Microsoft Windows 10 (64-bit recommended) • Microsoft Windows 11 (64-bit recommended)
Primary frequency of CPU	4 GHz or above
Memory	4 GB or above
Hard disk	5 GB or above

Follow the installation wizard to install the software. You can specify the installation path during the installation process as needed.



Do not install the software in the same folder as other versions.

4 Version Matching Information

4.1 Firmware Version

4.1.1 Firmware Information

- Easy523/Easy522/Easy521

Firmware Version	File Name
Version 6.11.0.1 or later	(0302AL79)EASY52x-51xPROPLUS_CPU_6.11.0.1.upgrade (03029844)EASY52x-51xPROPLUS_CPU_6.11.0.1.img

- Easy320/Easy302/Easy301, Easy502/Easy501

Firmware Version	File Name
Version 6.11.0.1 or later	(0302AL80)EASY320-30x-50x_CPU_6.11.0.1.upgrade (03029847)EASY320-30x-50x_CPU_6.11.0.1.img

- H5U-A8S

Firmware Version	File Name
Version 6.11.0.1 or later	(03027791)H5U-A8S_CPU_6.11.0.1.upgrade (0302AP13)H5U-A8S_CPU_6.11.0.1.zip

- H5U-A8

Firmware Version	File Name
Version 6.11.0.1 or later	(03026032)H5U-A8_CPU_6.11.0.1.upgrade (0302AP12)H5U-A8_CPU_6.11.0.1.zip

- H5U-A16

Firmware Version	File Name
Version 6.11.0.1 or later	(03026031)H5U-A16_CPU_6.11.0.1.upgrade (0302AP11)H5U-A16_CPU_6.11.0.1.zip

- H5U-A32

Firmware Version	File Name
Version 6.11.0.1 or later	(03022814)H5U_CPU_6.11.0.1.upgrade (03022815)H5U_CPU_6.11.0.1.zip

- Easy511/Easy321/Easy321S

Firmware Version	File Name
Version 6.11.0.1 or later	(0302CB40)Easy511-321-321S-30XP_CPU_6.11.0.1.upgrade
	(0302CF99)Easy511-321-321S-30XP_CPU_6.11.0.1.img

4.1.2 New Features

New Features

- Easy523/Easy522/Easy521, Easy511

Type	Description
Instruction	Added support for EtherCAT communication interrupt subroutines.

- Easy523/Easy522/Easy521, Easy320/Easy302/Easy301, Easy502/Easy501, H5U-A32/H5U-A16/H5U-A8/H5U-A8S, Easy511/Easy321/Easy321S

Type	Description
Instruction	Added support for the MC_GearInPos instruction to specify the gear chasing direction.
	Added support for the SerialSend and SerialRcv instructions to simultaneously call full-duplex communication after serial communication mode is switched to RS232/RS422.
Communication	TCP instructions now support disconnection timeout detection.
	Added support for the MC_ResetFollowingError instruction to reset following errors.
	Added support for the SysHc_NTPClient instruction to access the NTP server for time calibration.
	Added the user project AB backup mechanism to ensure project download integrity in poor communication environments.

- H5U-A32/H5U-A16/H5U-A8/H5U-A8S, Easy502/Easy501, Easy511

Type	Description
Communication	Added support for detecting sporadic and continuous EtherCAT frame loss and support for online slave scanning.

- Easy523/Easy522/Easy521, Easy320/Easy302/Easy301, Easy502/Easy501, Easy511/Easy321/Easy321S

Type	Description
System	Added support for detecting PLC internal pointer/array out-of-bounds, wild pointer operations, and memory leaks.
	Added support for using system variables to restart the CANopen master.

Type	Description
	Added support for using system variables to modify the CAN port baud rate.

- Easy523/Easy522/Easy521

Type	Description
System	Added support for the EtherNet2 port to have independent IP address configuration.

- Easy320/Easy302/Easy301, Easy502/Easy501, Easy511/Easy321/Easy321S

Type	Description
System	Added the AutoFEL feature to block flashing of mismatched firmware from different images.

Modified Features

Easy523/Easy522/Easy521, Easy320/Easy302/Easy301, Easy502/Easy501, H5U-A32/H5U-A16/H5U-A8/H5U-A8S, Easy511/Easy321/Easy321S

Type	Description
Instruction	Improved the execution efficiency of basic LD instructions, reducing the PLC scan cycle.

Removed Features

None

4.1.3 Solved Issues

- Easy523/Easy522/Easy521

Type	Description
System	Fixed the issue where upgrade fails when a bad block exists in Flash.
	Fixed the issue where the default gateway is lost when network parameters are configured while a network node does not exist.
	Fixed the issue where the system encounters stack errors and freezes when Type-C cable is in poor contact.

- Easy320/Easy302/Easy301, Easy502/Easy501

Type	Description
System	Fixed the issue where the system crashes when the CAN cable is connected inversely.

- Easy523/Easy522/Easy521, Easy320/Easy302/Easy301, Easy502/Easy501, H5U-A32/H5U-A16/H5U-A8/H5U-A8S, Easy511/Easy321/Easy321S

Type	Description
Instruction	Fixed occasional state machine lockup in the MB_Master instruction.
Communication	Fixed occasional SDO write failure on a single axis during long-term operation with 8 axes at a 1 ms synchronization cycle, which caused homing failure.

4.2 Software Version

4.2.1 Software Information

Software Version	File Name
AutoShopV4.11.0.0	AutoShop V4.11.0.0 Setup.zip

4.2.2 New Features

New Features

H5U and EASY series

Type	Description
Instruction cascading	Instructions now have EN and ENO pins to facilitate cascading of instructions.
Instruction pin support for logical expressions	Instruction and function block input/output parameters now support logical expressions.
Multiple data types	Added support for two-dimensional arrays, dual-variable sub-indexing, and enumeration variables.
REGION instruction	The REGION instruction now supports grouping of ST code with nesting capability.
F1 precise jump	Pressing F1 jumps directly to the exact location of the selected instruction in the help manual.
Project archive management	After a user shares a project, other users can run the project even without dependent files.
Number base switching	In monitoring mode, the display base of monitored variables can be quickly switched with shortcut buttons.
SFTP function	The SFTP service now can be enabled for PLCs.
CANopen master restart	Added the system variable _CANOpen.RestartMaster used to control CANopen master restart.

Type	Description
CAN baud rate modification through programming	Added support for using system variables to modify the CAN port baud rate.
Compatibility with customized serial Modbus protocol	Added support for using the <code>_MbMstEx.CompatMode</code> system variable to enable/disable parsing of customized Modbus data.
IoT network diagnostic	Added network diagnostic functions for Ethernet, EtherNet/IP, OPC UA, EtherCAT, and OS.

Modified Features

H5U and EASY series

Type	Description
Modbus communication	When the PLC acts as a Modbus master for broadcast communication (accessing station 0), it supports function codes 05 and 06.
PROFINET communication	Added the system variable <code>_tagPNStack.connected</code> used to indicate PROFINET connection status.
Serial baud rate	Added baud rate options for onboard serial ports and GE expansion cards on the Easy series.

Removed Features

None

4.2.3 Solved Issues

H5U and EASY series

Issue	Corrective Measures
In English operating systems, system variable table data was missing, and the <code>_SYS_COM_SAVE</code> table lacked fields, causing compilation errors.	Added system variable table data to the XML file.
Abnormal calculation of OPC UA variables in the compact runtime caused false compilation errors.	Fixed OPC UA variable calculation logic to accurately count variables.
Online compilation of projects was extremely slow.	Optimized left-side tree nodes: changes are now fully processed before the view is refreshed.
Using the ZSET instruction with parameters <code>ss[0]</code> and <code>ss[aa]</code> caused PLC crash.	Added interception for mixed use of numeric literals and variable indices.

Issue	Corrective Measures
Excessive publicly exposed structure members in network properties caused the background service to freeze and the PLC to crash.	The background checks the version number; if it is earlier than the compatible version, the background does not deploy the version and reports an error.
Easy320 project could not be opened when the project path/name was too long.	Switched to Unicode encoding; the system limit for Chinese characters in paths is now doubled.
After exporting the variable table, modifying comments and re-importing caused compilation errors.	Supported canceling the forced uppercase logic for complex types such as structures.
Hardware positive/negative limit switches for axes were sometimes reversed (probabilistic issue).	For servo drives with hidden hardware limit switches, hardware limit data is no longer issued.
In English operating systems, "Jump to Definition" in LD did not work, and the translation of "Jump to Definition" was inconsistent between LD and ST.	Unified the translation.
Data loss occurred when a recipe is exported and then re-imported.	REAL-type data in scientific notation was previously treated as strings and filtered out; now scientific notation is correctly converted to floating-point type.
In English operating systems, creating/opening Easy301 projects resulted in errors.	Replaced with the latest XML file.

4.2.4 Exceptional Operation Prompt

H5U and EASY series

Description	Corrective Measures
Garbled characters appear and the application becomes unusable after conversion from Traditional to Simplified Chinese.	Check whether multiple conversions have been performed, as this step may require manual annotation.

4.3 Device Description File Version

- XML file versions for EtherCAT slaves

Model	Version	File Name
ES810N_ECOT_v1.2	V1.2	ES810-Ecat_v1.2.xml
IS620N_ECOT_v2.6.8	V2.6.8	IS620N-Ecat_v2.6.8.xml
IS810_1Axis_V1.02	V1.02	IS810_1Axis_V1.02.xml
IS810_2Axis_V2.02	V2.02	IS810_2Axis_V2.02.xml
SV510N_ECOT_v1.1.3	V1.1.3	SV510N-Ecat1.1.3.xml

Model	Version	File Name
SV520N-Ecat_v0.1.2	V0.1.2	SV520N-Ecat_v012.xml
SV820_3Axis_V3.03	V3.03	SV820N-3Axis-V3.04.xml
SV820_4Axis_V4.04	V4.04	SV820N-4Axis-V4.04.xml
GR10-4ADE_1.4.4.0	1.4.4.0	4ADE_4DAE_8TCE_1.4.5.0.xml
GR10-4DAE_1.4.4.0	1.4.4.0	4ADE_4DAE_8TCE_1.4.5.0.xml
GR10-8TCE_1.4.5.0	1.4.5.0	4ADE_4DAE_8TCE_1.4.5.0.xml
AM600-2HCE_1.4.5.0	1.4.5.0	GR10_AM600_RECT_HCE1.4.5.0.xml
AM600-RTU-ECTA_2.0.7.0	2.0.7.0	GR10_AM600_RECT_HCE1.4.5.0.xml
GL10-RTU-ECTA_2.0.7.0	2.0.7.0	GL10-AM600-RTU-ECTA_2.0.7.0.xml
AM600_0808ETNE_1.4.5.0	1.4.5.0	GR10-AM600-0808-1616ETNE_1.4.5.0.xml
GR10_0808ETNE_1.4.5.0	1.4.5.0	GR10-AM600-0808-1616ETNE_1.4.5.0.xml
AM600_1616ETNE_1.4.5.0	1.4.5.0	GR10-AM600-0808-1616ETNE_1.4.5.0.xml
GR10_1616ETNE_1.4.5.0	1.4.5.0	GR10-AM600-0808-1616ETNE_1.4.5.0.xml
GR10_1616ERE_BD_1.3.0.0	1.3.0.0	GR10-AM600-0808-1616ETNE_1.4.5.0.xml
AM600-4PME_1.1.3.0	1.1.3.0	AM600_RECT_PME1.1.2.0.xml
GR10-4PME_1.1.3.0	1.1.3.0	AM600_RECT_PME1.1.2.0.xml
GR10-2PHE_1.1.3.0	1.1.3.0	AM600_RECT_PME1.1.2.0.xml
SV630_1Axis_03713	03713	SV630_EOE_1Axis_03713.xml
SV660_1Axis_V0.08	V0.08	SV660_1Axis_V0.08.xml
SV635_1Axis_03413	03413	SV635_EOE_1Axis_03413.xml
GR10-2WTE_1.1.0.3	1.1.0.3	GR10-AM600-2WTE1.1.0.3.xml
GS20-ECT-8L 1.0.5.3	1.0.5.3	INOVANCE GS20-ECT-8LV1.0.5.3.xml
GR10-EC-3SW(IN,X2,X3)_1.5.0.0	1.5.0.0	GR10-EC-3SW_6SW_1.5.0.0.xml
GR10-EC-6SW(IN,X2,X3)_1.5.0.0	1.5.0.0	GR10-EC-3SW_6SW_1.5.0.0.xml
GR10-EC-6SW(X4,X5,X6)_1.5.0.0	1.5.0.0	GR10-EC-3SW_6SW_1.5.0.0.xml
GR20T-ECT-0808EMN_1.1.1.0	1.1.1.0	GR20T-ECT-0808-1616EMN_1.1.1.0.xml

Model	Version	File Name
GR20T-ECT-1616EMN_1.1.1.0	1.1.1.0	GR20T-ECT-0808-1616EMN_1.1.1.0.xml
GR20-1OP_1.2.0.0	1.2.0.0	GR20-1OP-N_1.2.0.0.xml
GL20-RTU-ECT_1.3.21.0	1.3.21.0	GL20(GL20S)-RTU-ECT32_3.0.14.0.xml
GL20(GL20S)-RTU-ECT32_3.0.14.0	3.0.14.0	GL20(GL20S)-RTU-ECT32_3.0.14.0.xml
GR20T-ECT-1616EMN-E_1.0.3.0	1.0.3.0	INOVANCE-GR20T-ECT-1616EMN-E-1.0.3.0.xml

- EDS file versions for CANopen devices

Model	Version	File Name
MD380/MD500 V1.11	V1.11	000003B9000B01070001000B.EDS
MD380/MD500V1.12	V1.12	MD380-MD500-CANOpen V8.1.eds
MD810 INV_V1.2	V1.2	000003B9000B011200010002.EDS
MD810 INV_V1.5	V1.5	000003B9000B011200010005.EDS
MD810 INV_V3.0	V3.0	MD810-CANOpen-INV V3.0.eds 000003B9000B0112000C0002.EDS
MD810_REC_VC.2	VC.2	000003B9000B0112000C0004.EDS
MD810_REC_V12.4	V12.4	MD810-CANOpen-REC V13.0.eds
MD810_REC_V13.0	V13.0	000003B9000D010719203800.EDS
IS620 V056	V056	000003B9000D010719203800.EDS
SV630C_V1.1	V1.1	SV630C_V1.1.eds
SV660C_V1.1	V1.1	SV660C_V1.1.eds
IS810_V1.1	V1.1	IS810_V1.1.EDS

- GSD file versions for PROFINET devices

Model	Version	File Name
H5U	V2.31	GSDML-V2.31-inovance-H5U-20230403
EASY	V2.31	GSDML-V2.31-inovance-EASY-20230801.xml
EASY-RTU	V2.31	GSDML-V2.31-inovance-EASY-RTU-20250108.xml

4.4 Compatibility Description

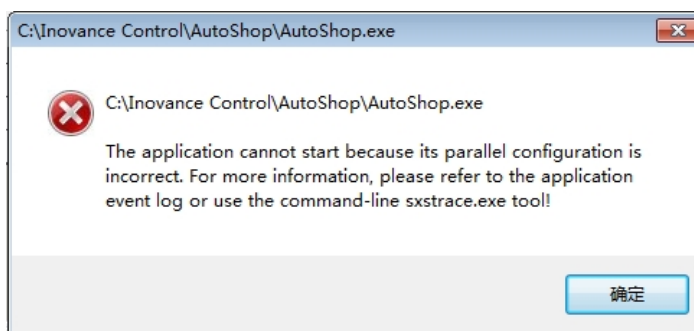
Function	Firmware Version Compatibility
BYTE data type	V6.1.0.0 and later
EASY splitter	V6.3.0.0 and later
OPC UA	V6.3.0.0 and later
EN/ENO function	V6.5.0.0 and later
SFTP function	V6.5.0.0 and later
EtherNet/IP coupler mode setting	V6.5.0.0 and later
Disabling modules through EtherCAT	V6.1.0.1 and later
Batch setting alias through EtherCAT	V6.3.0.0 and later
Data log	V6.4.0.0 and later

5 FAQ

5.1 "Incorrect parallel configuration" During AutoShop Startup

Symptom

During AutoShop startup, a pop-up window prompts "Incorrect parallel configuration", as shown in the figure below.



- **Possible Cause 1**

The Windows Modules Installer service is disabled.

Solution

1. Click the **Start** menu on the PC, and then choose **Windows System > Run**.
2. In the **Run** dialog box, type "services.msc" and click **OK** to open the **Services (Local)** window.
3. In the **Services (Local)** window, double-click **Windows Modules Installer** to check if the service status is **Stopped** (indicating it is disabled).
4. Click **Start**, set **Startup type** to **Manual**, click **OK**, and restart the computer.

- **Possible Cause 2**

Missing VC runtime libraries.

Solution

Navigate to the **VC** folder in the AutoShop installation directory, double-click **vcredist_x86.exe** to install it, and restart the computer.

- **Possible Cause 3**

Missing system runtime libraries.

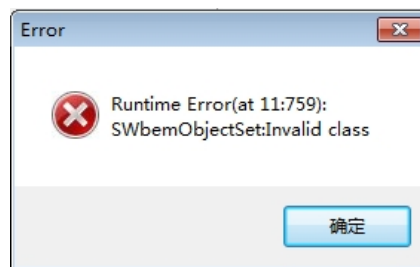
Solution

Use tools such as 360 Security or Kingsoft PC Doctor to scan and repair system DLLs, and then restart the computer.

5.2 "SWbemObjectSet: Invalid class" During AutoShop Installation

Symptom

During AutoShop installation, an error pop-up window prompts "SWbemObjectSet: Invalid class", as shown in the figure below.

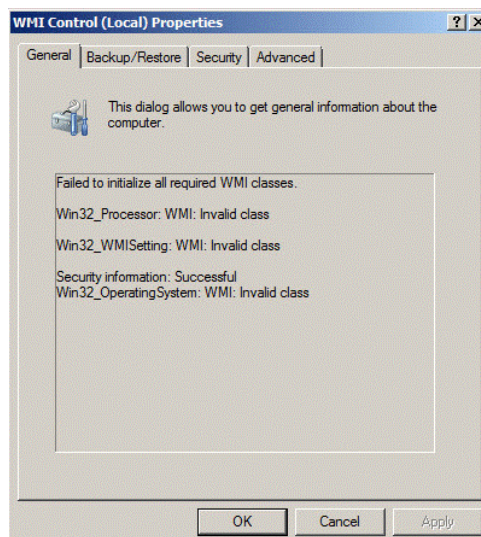


Possible Cause

Incomplete VC runtime libraries or .Net Framework libraries, or corrupted WMI.

Solution

1. Choose **Control Panel > Programs and Features**. Check whether the .Net Framework libraries and VC runtime libraries are complete. If any item is missing, download and install it from the Microsoft website, or reinstall the libraries.
2. If the VC runtime libraries and .Net Framework libraries are complete but the error persists, check WMI.
 - a. Press **Win+R**, type "wmimgmt.msc" in the **Run** dialog box, and click **OK** to open the WMI Manager.
 - b. Right-click **WMI Control (Local)** and select **Properties**. If the following dialog is displayed, it indicates WMI is corrupted.



- c. Contact Inovance technical support to obtain the MOF script.

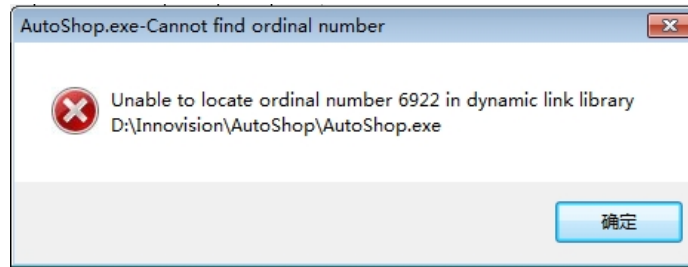


- d. Right-click the downloaded script and select **Run as administrator**. After running the script, reopen the **WMI Control (Local) Properties** dialog. If no error appears, it indicates WMI has been repaired. Click **OK**.
- e. Retry installing AutoShop.

5.3 "Unable to locate ordinal number" During AutoShop Installation

Symptom

During AutoShop installation, a pop-up window prompts "Unable to locate ordinal number".

**Possible Cause**

Corrupted DLLs or DirectX components.

Solution

1. Use tools such as 360 Security or Kingsoft PC Doctor to scan and repair system DLLs, and then restart the computer.
2. If the issue persists, contact Inovance technical support to obtain the DirectX Repair tool.

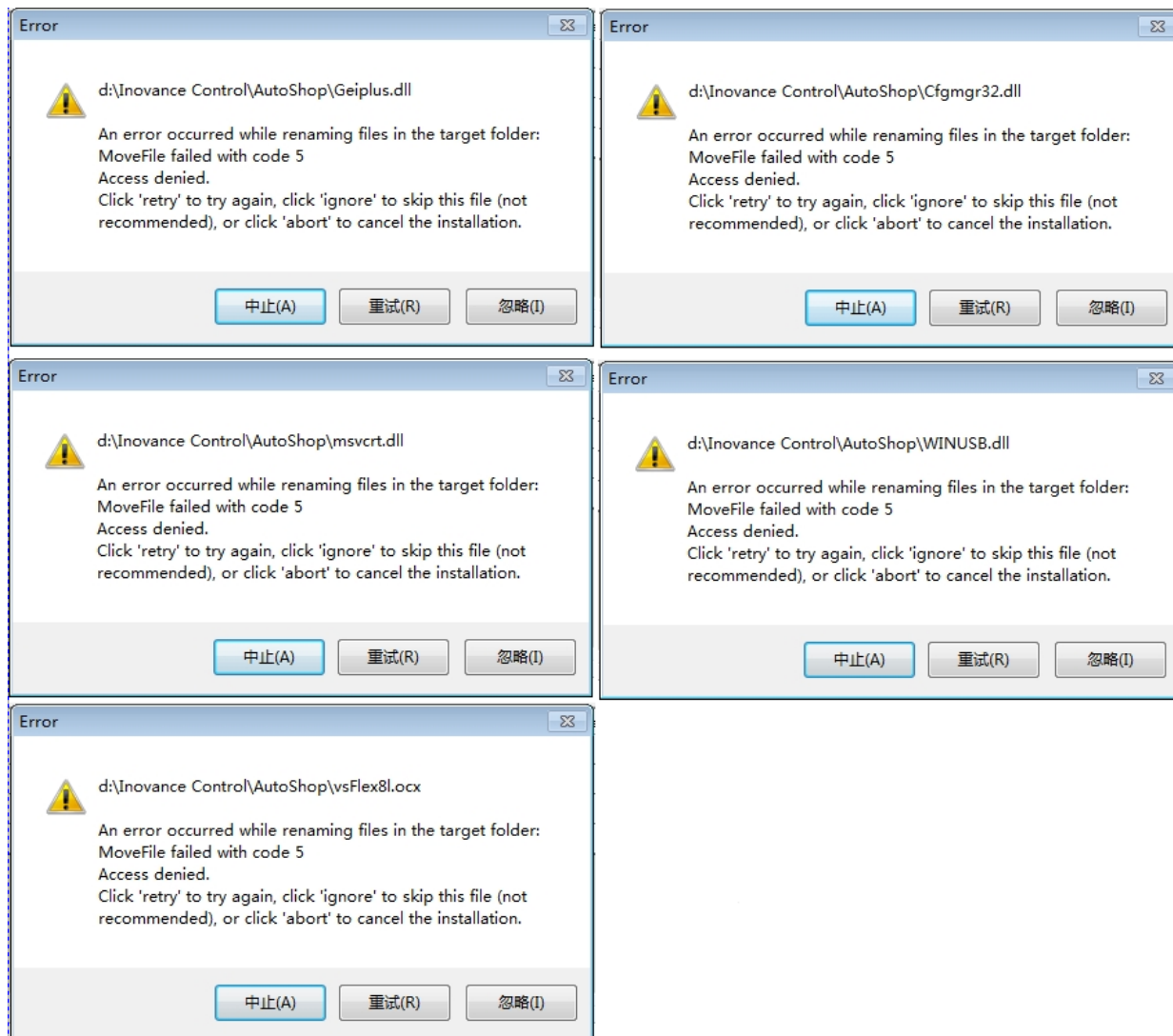


3. Run the tool to repair DirectX.
4. Restart the computer after repair.

5.4 "MoveFile failed" or "Failed to register DLL/OCX: RegSvr32 failed" During AutoShop Installation

Symptom

During AutoShop installation, a pop-up window prompts "MoveFile failed" or "Failed to register DLL/OCX: RegSvr32 failed", as shown in the figure below.



Possible Cause

The current user account lacks permissions to write to the AutoShop installation directory, or security software is blocking the operation.

Solution

- Run the installer with administrator privileges.
- Temporarily disable antivirus/security software (such as 360 Security) during installation.

Service and Support

Should you encounter a safety accident during the use or operation of the product, or face challenges in operating and maintaining the equipment, which remain unresolved after the relevant documentation is consulted, we provide multiple channels to ensure prompt resolution.

- Channel #1: Contact service@inovance.com.



- Channel #2: Visit <https://www.inovance.com/global> to access document downloads, after-sales support, spare parts ordering, repair applications, and authenticity verification services.
- Channel #3: Download My Inovance app (<https://zshc-eu.inovance.com/download-pc/>) where you can access products info and documentation, and query product parameters.

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