



Crestron Plug-in Programming User Guide



Outline

- **Environment Setup**
- **Connected Crestron Device**
- **Custom Configure**
- **Execute Application**
- **Youtube Instruction**



Environment Setup

- **Development Environment(Windows)**

- Development application and related installer

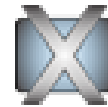


Toolbox

-> Crestron device connect



crestron_toolbox_3.1221.0004.0.exe or above



Crestron XPanel

-> Load UI file



Crestron XPanel Setup.exe



SIMPL Windows

-> Logic control coding



SIMPL+ Editor



simpl_windows_4.2000.00.00.exe or above



crestron_database_215.00.003.00.exe or above



device_database_200.235.001.00.exe or above



VisionTools Pro-e

-> UI edit



vt_pro-e_6.2.02.08.exe or above

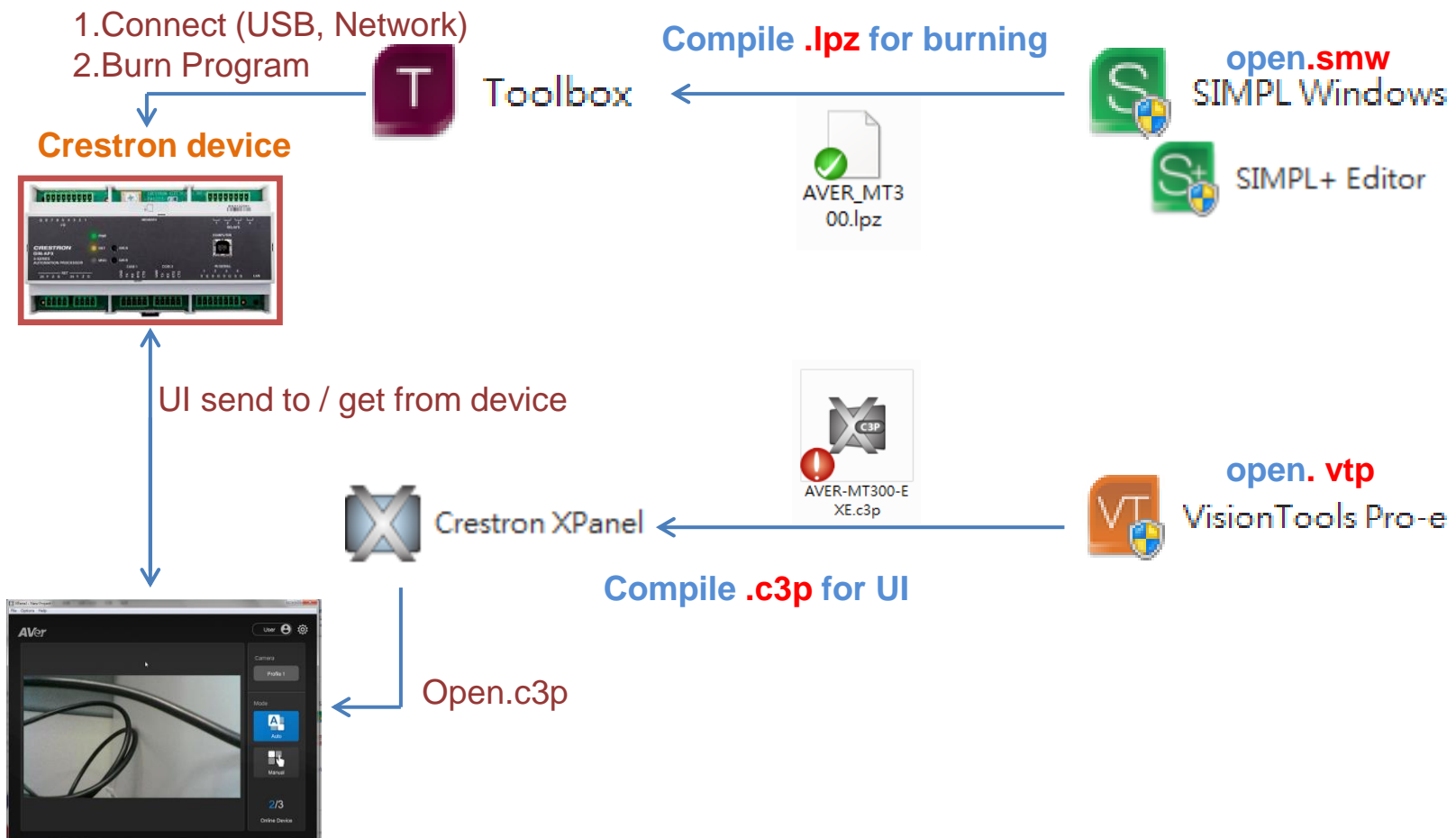


crestron_smartgraphics_2.18.00.40.exe or above



Environment Setup

- Applications & Structure





Connected Crestron Device

- Open Toolbox

DefaultWorkspace.ctw - Crestron Toolbox (Administrator) - [Device Discovery Tool]

File View Tools Window Utility Help

Sort By: Model Name

Quick Filter Stored Filter

DIN-AP3 Control System
DIN-AP-7FC3DC1C (10.100.105.38)
Firmware: 1.603.4242.36971

Network Device Tree Launch the tool to view and configure connected devices

SIMPL Debugger Launch the tool to test and debug control system programs

Firmware Version: 1.603.4242.36971

Program (Program01) Program ID: Main
Program ID Tag: Main
Program Name: AVER_AP3_v3.2.simw
Timestamp: 8/25/2021 11:25 AM
Original Path: D:\jesse_case\30-AVER\羅漢科技股份有限公司\DEMO_ROOM\程式

IP Table (Program01) Program ID: Main
Active IP Entries: 0
Total IP Entries: 7

Project Name	Type	Location
AVER-iPad-Core3	MobileApp	HTML

Ethernet Settings
IP Address: 10.100.105.38 Host Name: DIN-AP-7FC3DC1C
IP Mask: 255.255.255.0 DHCP Enabled: Yes
Mac Address: 00.10.7f.c3.dc.1c Link Status: Active

Clock
Device Time: 2023/3/30 下午 06:51:15
Processor TimeZone: Pacific Standard Time (UTC-08:00) Pacific Time (US & Canada)
System UpTime: 23 Hours, 1 Minute, 33 Seconds

Functions Display the Functions Menu

System Info Launch the System Info tool

Discover Devices Options... Export...

Local Search Remote Search

Double-click on a device to get additional information.
Right-click on a device for other operations.

Use **Device Discovery tool** search Crestron device via USB in LAN



Connected Crestron Device

The screenshot displays the Crestron Toolbox interface. On the left, a list of discovered devices is shown, with one device highlighted. A red box highlights the device list area. On the right, the configuration options for the selected device are displayed, with a red box highlighting the 'Program (Program01)' button. A red arrow points from the 'Program (Program01)' button in the configuration panel to the 'Program (Program01)' button in the device list. The device information includes: DIN-AP3 Control System, DIN-AP-7FC3DC1C (10.100.105.38), and Firmware: 1.603.4242.36971.

-> Found Crestron device:
Double click for control and more info

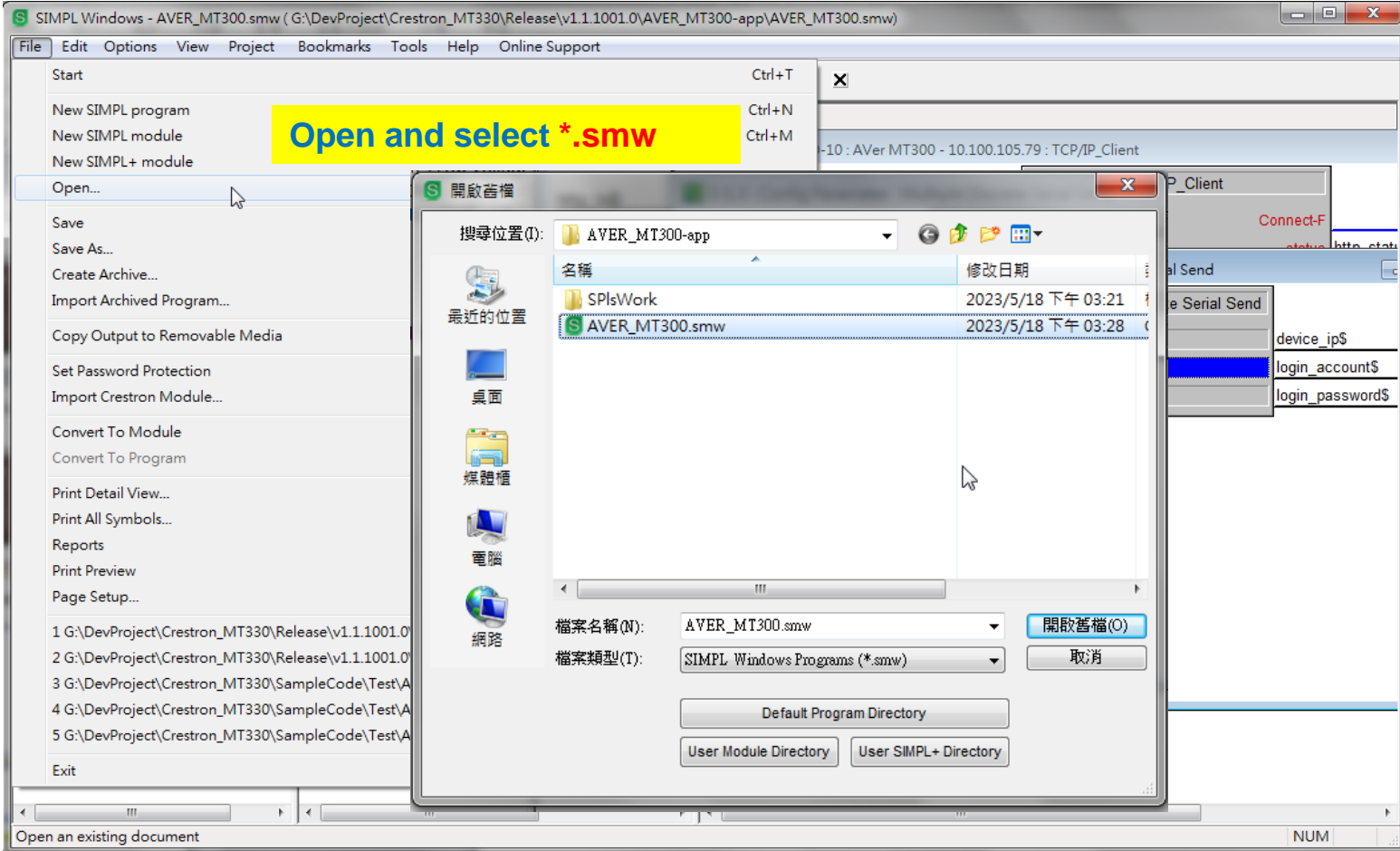
Custom Configure

- **Preparation for Crestron app connecting MT300**
 - Crestron device needs MT300: IP, ID and Password
 - Input MT300 IP/ID/Password by SIMPL Windows
 - Compile and burn into Crestron device
 - Crestron UI needs Crestron IP
 - Edit Crestron device IP by VisionTools pro-e
 - Compile for UI executable file



Custom Configure

- **Open SIMPL Windows (.smw)**  SIMPL Windows



The screenshot shows the SIMPL Windows application interface. The 'File' menu is open, and the 'Open...' option is highlighted. A yellow callout box with the text 'Open and select *.smw' points to the 'Open...' menu item. An '開啟舊檔' (Open Existing Document) dialog box is overlaid on the application, showing the search location 'AVER_MT300-app'. The file list contains the following entries:

名稱	修改日期
SPLsWork	2023/5/18 下午 03:21
AVER_MT300.smw	2023/5/18 下午 03:28

The dialog box also shows the file name 'AVER_MT300.smw' and the file type 'SIMPL Windows Programs (*.smw)'. The '開啟舊檔(O)' button is highlighted.



Custom Configure

- Input MT300 IP, ID & Password

The screenshot shows a software interface with a 'Program View' tree on the left and a 'Detail View' on the right. A red box highlights the 'IP-ID-10 : TCP/IP Client' device in the tree. A yellow callout box says 'Right click to configure Slot-02 -> IP-ID-10'. A context menu is open over the device, with 'Configure Device...' highlighted at the bottom. A 'Device Settings: Crestron TCP/IP Client' dialog box is open, showing 'IP ID' and 'Default Address' fields. A yellow callout box says 'Input MT300 IP address'. A red box highlights the 'Default Address' section, which includes IP address input fields (10, 100, 105, 79) and radio buttons for 'Use IP Address' (selected) and 'Use Host Name'. Buttons for '確定' (OK), '取消' (Cancel), and '套用(A)' (Apply) are at the bottom.



Custom Configure

- Input MT300 IP, ID & Password

The screenshot displays the 'Program View' of the software. On the left, a tree view shows the project structure under 'Central Control Modules : DIN-AP3', including various slots and logic components. A red box highlights the 'S-1.3 : Multiple Discrete Serial Send : Config Parameter' component in the logic tree.

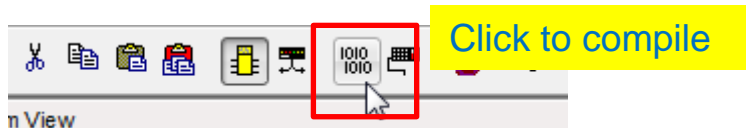
The main window shows the configuration for 'S-1.3 : Config Parameter : Multiple Discrete Serial Send'. It features three input fields on the left: 'BOX_set_ip' (containing '10.100.105.79'), 'BOX_set_account' (containing '1'), and 'BOX_set_password' (containing '1'). These inputs are connected to three output fields on the right: 'device_ip\$', 'login_account\$', and 'login_password\$'. A red box highlights the IP address input field, and a yellow callout box below it reads 'Input MT300 IP, ID and Password'.

At the bottom, another yellow callout box reads 'Double click Multiple Discrete Serial Send: Config Parameter', indicating the action taken to open this configuration window.

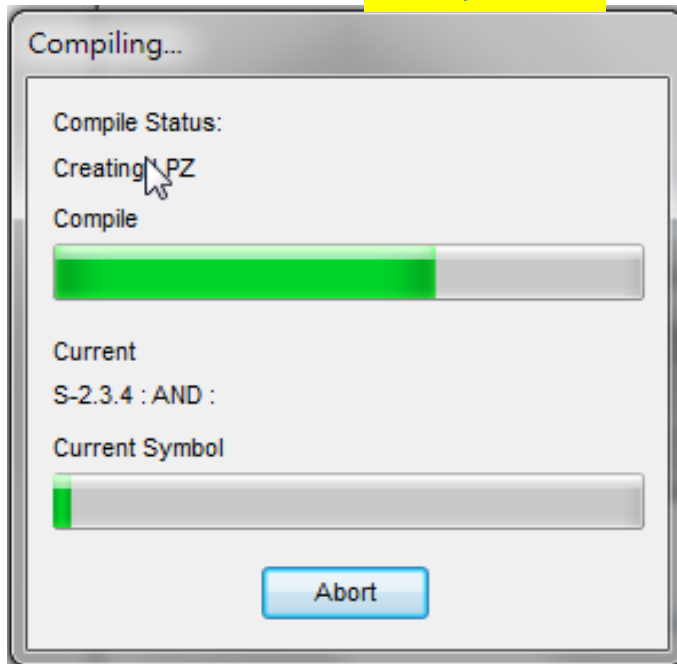


Custom Configure

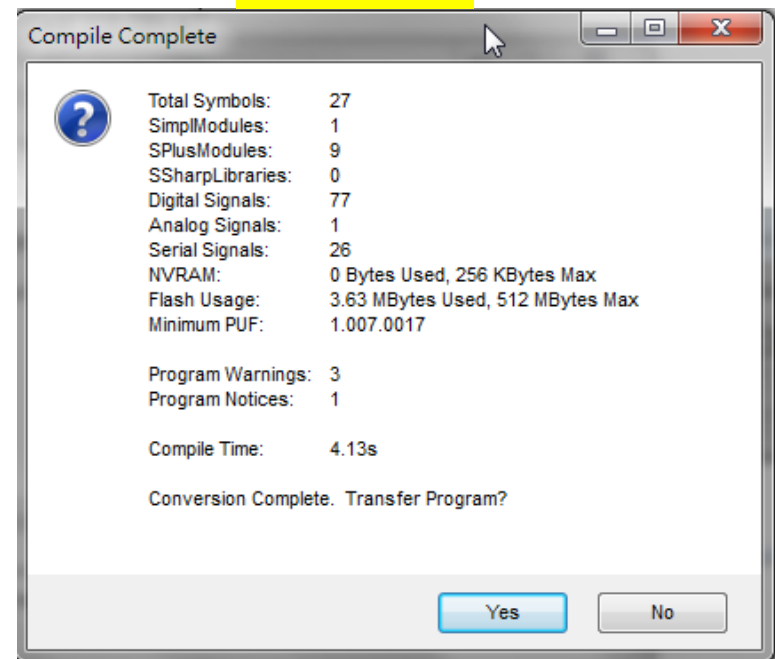
- **Compile**



Compile...



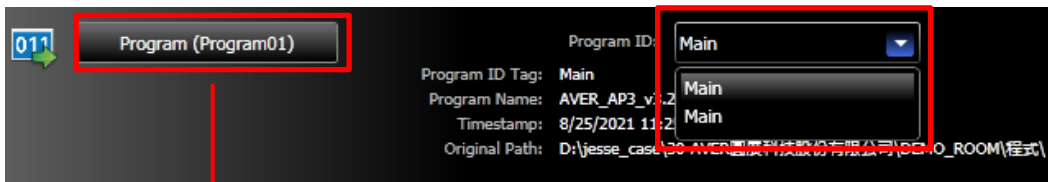
Complete.



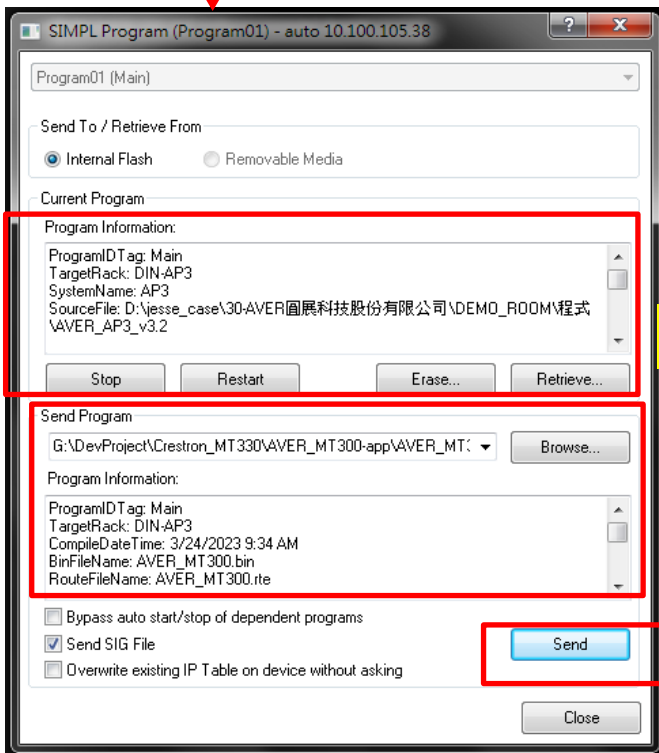


Custom Configure

- Burn – By ToolBox**



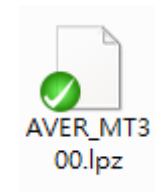
-> Installed program



-> Current Program Info

-> Send Program(.lpz)

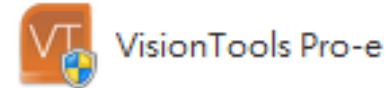
-> Burn and send





Custom Configure

- Open VisionTool Pro-e (.vtp)



The screenshot shows the VisionTools Pro-e interface. The 'File' menu is open, with the 'Open' option highlighted. A yellow box labeled 'Open' points to the 'Open' menu item. Below the menu, an '開啟舊檔' (Open Existing File) dialog box is displayed. The search location is 'AVER_MT300-app'. The file list shows 'SPLsWork' and 'AVER-MT300-EXE.vtp'. A yellow box labeled 'Select *.vtp' points to the file list. The '檔案名稱(N):' field contains 'AVER-MT300-EXE.vtp' and the '檔案類型(T):' field is set to 'Import Files (*.vtp;*.vtt)'. The '開啟舊檔(O)' button is highlighted with a red box.

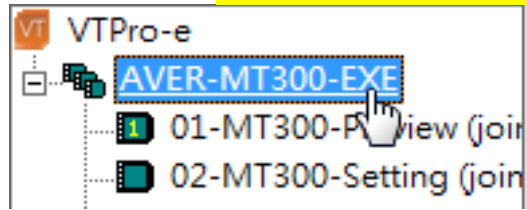
名稱	修改日期
SPLsWork	2023/5/18 下午 04:47
AVER-MT300-EXE.vtp	2023/5/18 下午 03:25



VisionTools Pro-e

- Configure UI data for Crestron device

Click Project



Property

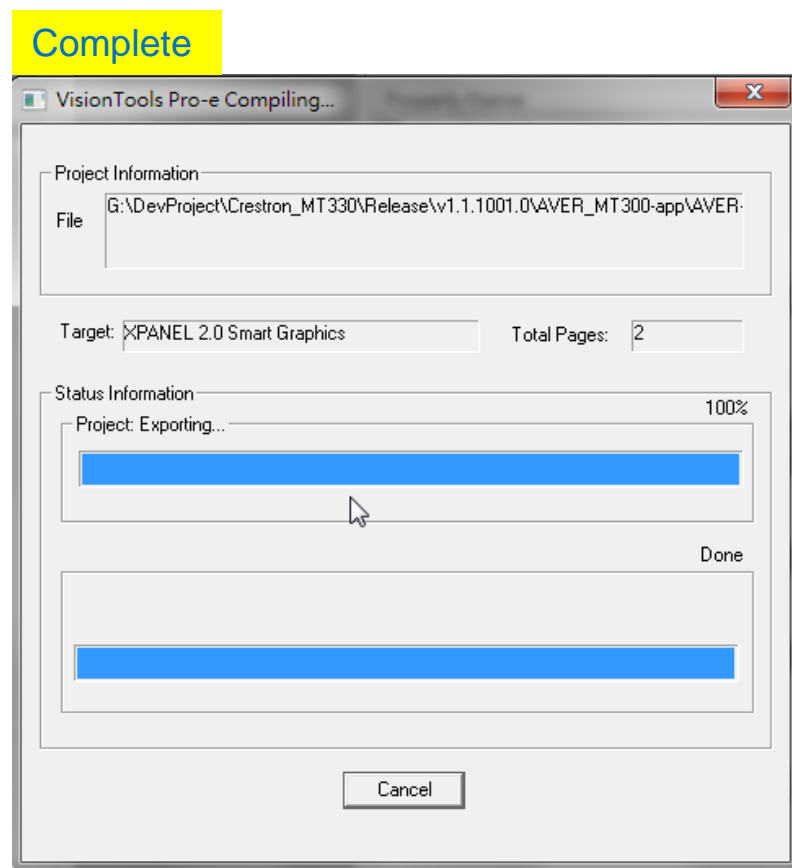
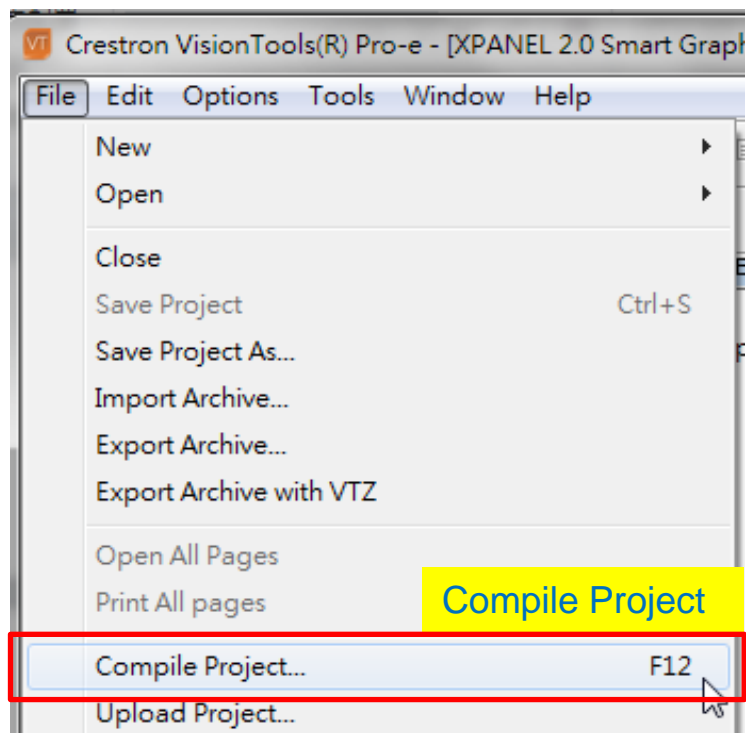
Connection Settings	
Host	10.100.105.38
IPID	05
Port	41794
Enable SSL	<input type="checkbox"/>
Virtual Control Room Id	

Configure IP, port



Custom Configure

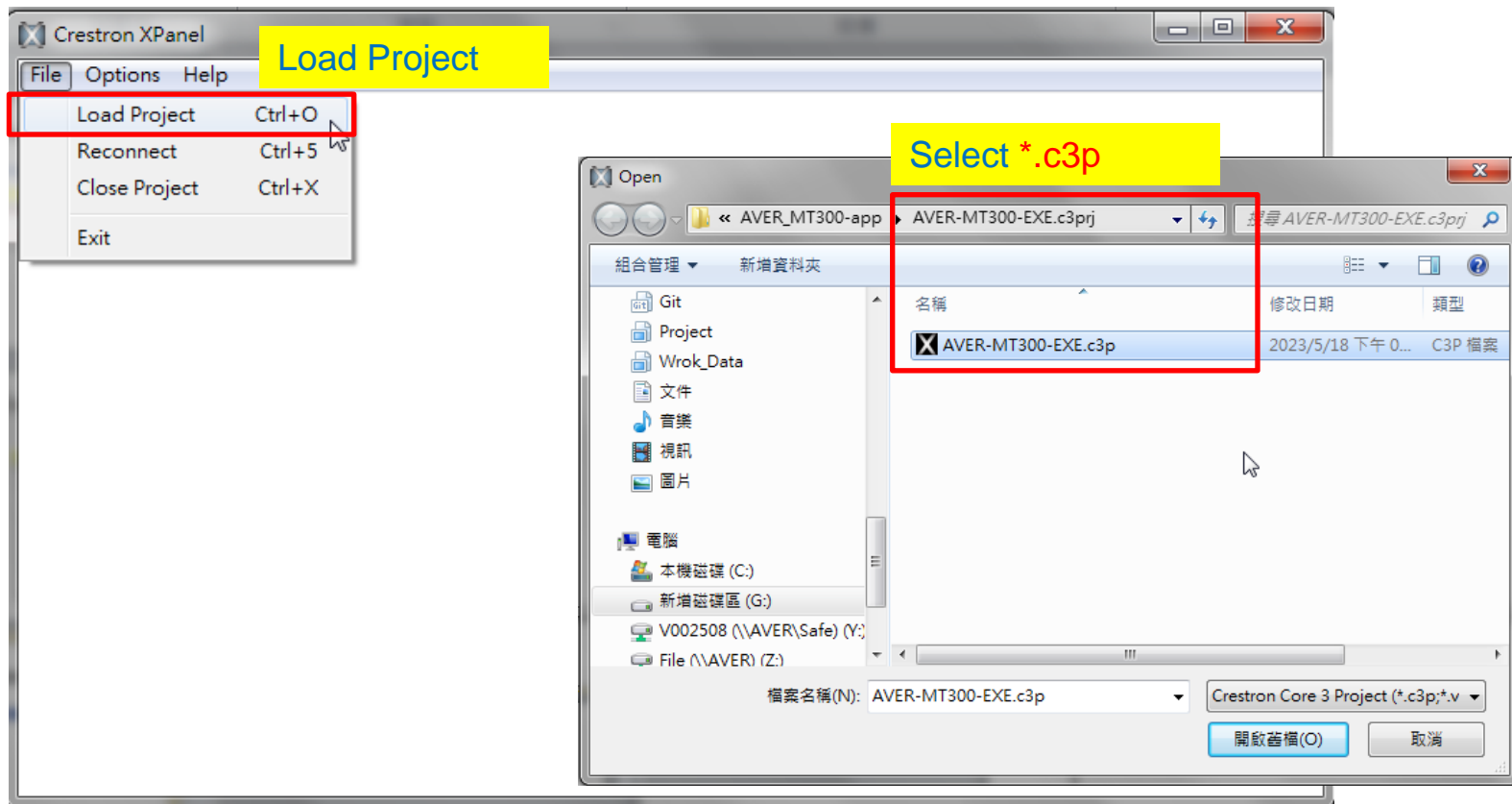
- **Compile**





Execute Application

- Open Crestron XPanel (.c3p)  Crestron XPanel





How to setup Crestron plug-in with MT300(N)

- **Youtube AVer Tech-Expert Instruction**
 - <https://www.youtube.com/watch?v=psF6ClwSGJ0>



THANK YOU