

# Configure the system via DX-Builder

After installing and connecting all IPG, the system will need to be configured before Using advance funcitno such as, name-list, customize input for building over 32 apartments.

Free of installation and establish the database, DX-Builder is powerful but light and easy tool for IPG, it helps you build-up a project easily. Configure the system using the "DX-Builder" application

- Install the application on a PC and use to create the configuration for all IPGs.
- Search for IPG on the network; assign and upload configuration data for the system.
- IPG's Maintians

PC requirements for using the DX-Builder.

**Operating System:** Windows 7 / Windows 8 / Windows 10

**CPU:** 32 bit (x86) processor or 64 bit (x64) processor of 1 GHz or higher

**Memory:** 2 GB RAM or Higher

## Configure for PC/Laptop

The IPG's default IP address is from 192.168.243.1~192.168.243.199. The PC will need to be set in the same subnet in order to connect to the IPG

### A. Open Control Panel

- Windows XP® (Classic View) **Network Connections** Double click **Local Area Connection** to open **Connection Status** window.

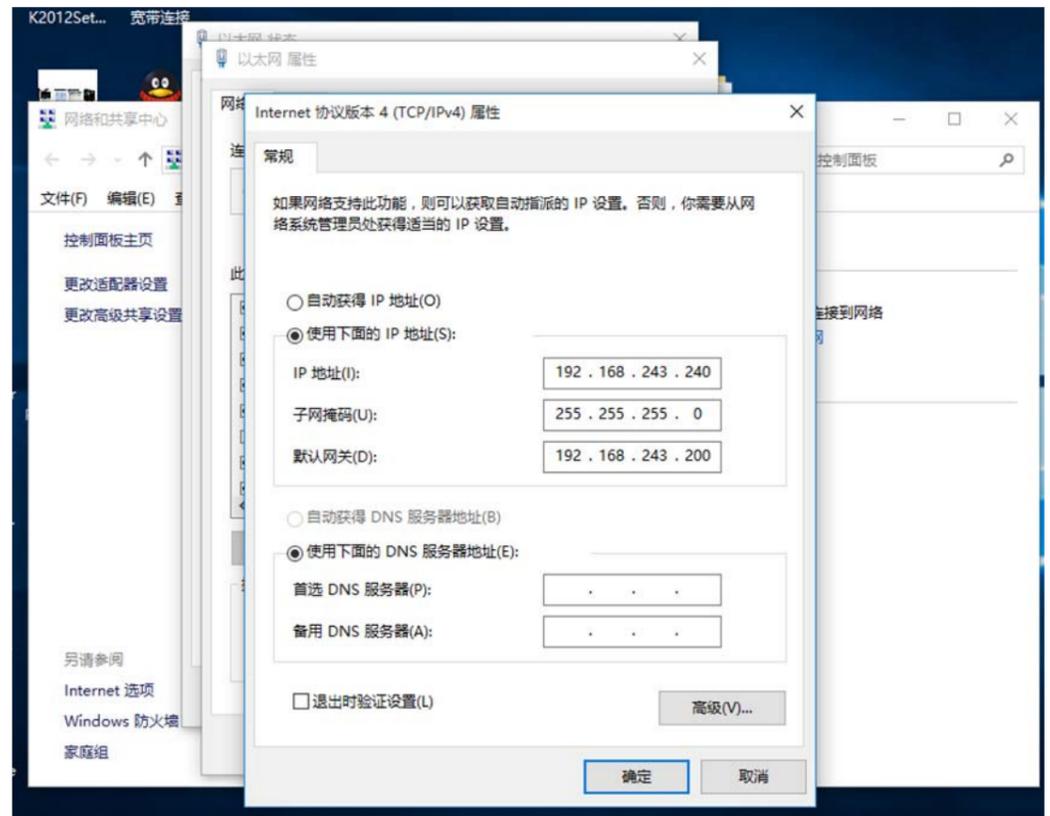
- Windows 7/8/10® (Category View) **Network and Internet View network status and tasks** Click **Local Area Connection** to open the **Local Area Connection Status** window.

B. Click the **Properties** button to open **Local Area Connection Properties** window.

C. Scroll down and left click **Internet Protocol (TCP/IP)** then click **Properties** button to open **Internet Protocol Properties** window.

D. Select the  **Use the following IP address** radio button. Type in the IP address 192.168.1.233 (the last number can be any valid host address from 233~254) and change the subnet mask to 255.255.255.0. Click [OK].

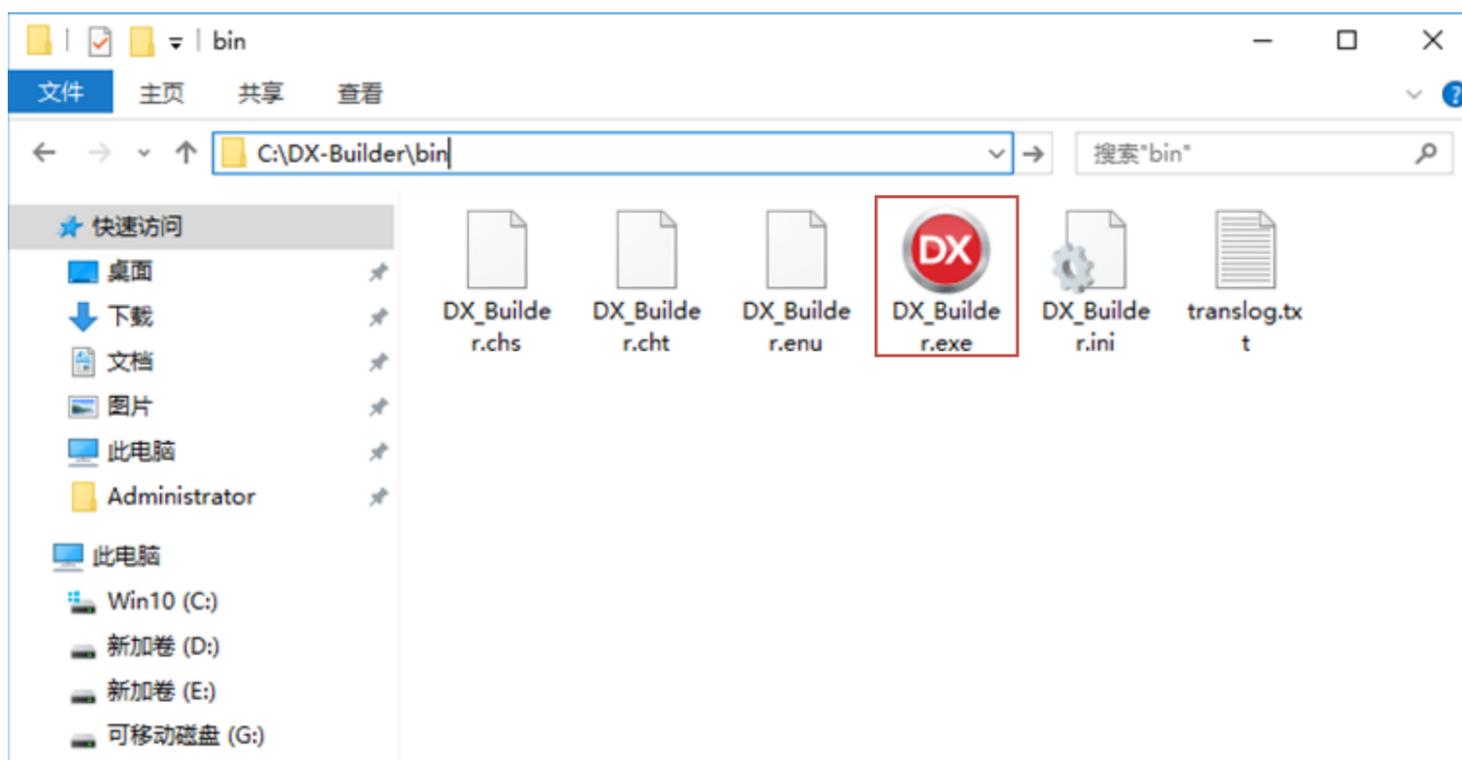
E. Click [OK] in **Connection Properties** window to accept these changes.



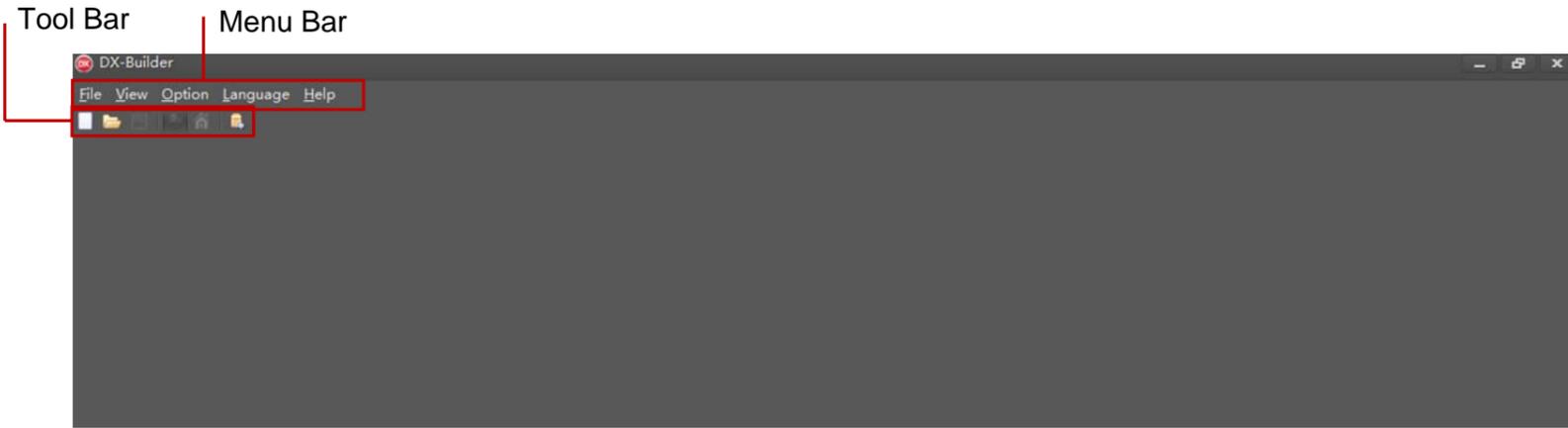
## Running DX-Builder

In the folder specified storage, double-click "SupportTool.exe." which inside of "Bin" folder.

(With the default setting, IX Support Tool will be installed in "My Computer" > "Local disc (C)" > "DX-Builder" > "Bin" > "DX\_Builder.exe")



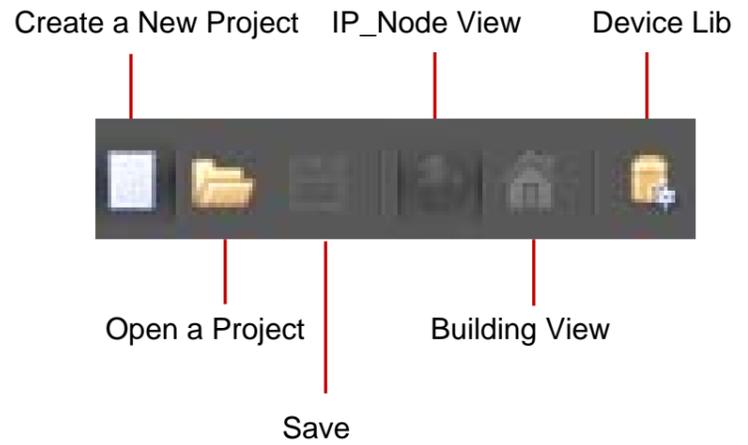
This is the first window showing when running the software



### Menu Bar

- File: to create a new project or open a exist project
- View: change setting menu's sort
- Option: manage device lib
- Language: switch display language
- Help: disable/enable log files for technical.

### Tool Bar



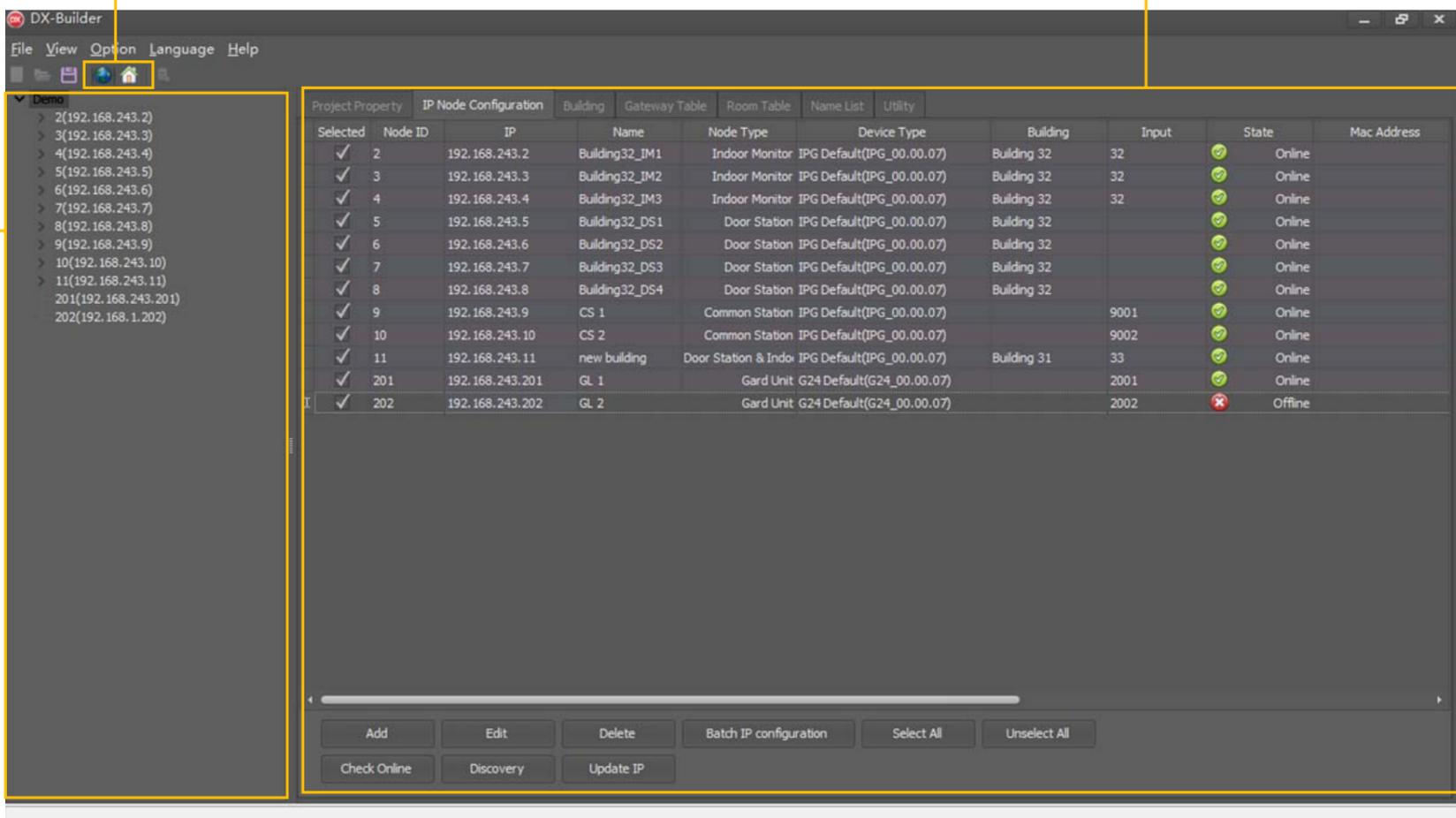
### Settings window sample

Configure all the IPG in the system from the Settings window.

**Devices:**  
Show all items that can be configured. Click the title to be configured and appropriate setting window will display.

**Setting Switching:** o update the station settings.  
Click to switch the window to Settings (IP\_Node View).

**Settings window:**  
This indicates the Setting window of the title selected.



## How to configure

Here will use a example project to guide how to configure the system.

The example as below:

Build 1: Building within 128 audio handsets.

Build 2: Building within 32 video monitors

Build 3: Building with more than 32 video monitors, here take as 96

Build 4: Villa or Small apartment within 4 monitors

And 2 Common door stations and 2 Guard units

Each Building is a typical building in 2-Wire system, in example will only show one for each type, but in configure the building quantities can be set as required

## Node Type

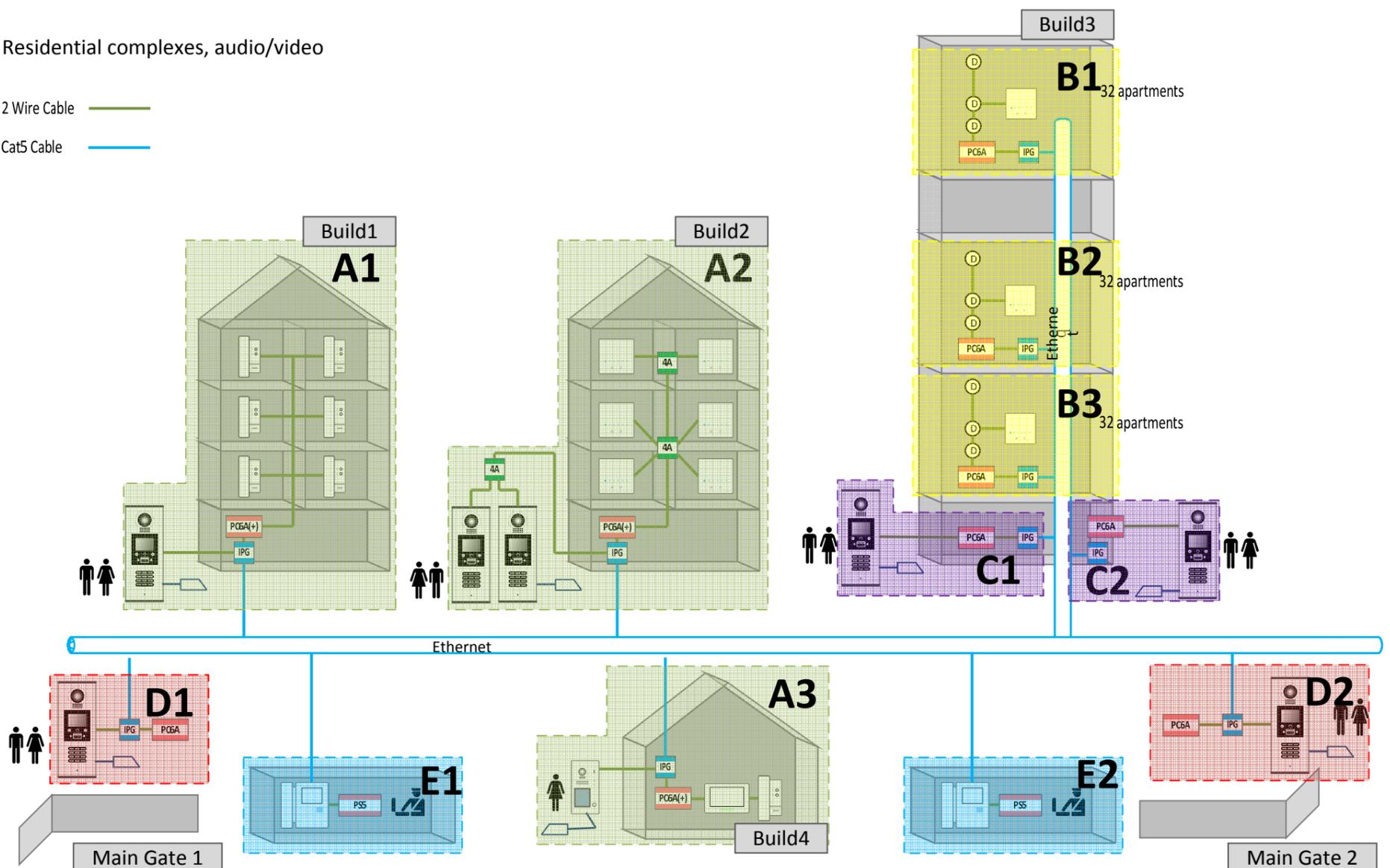
To identify each IPG's duty is important, Node Type is to make each IPG knows what responds for, there are 5 kind of different type:

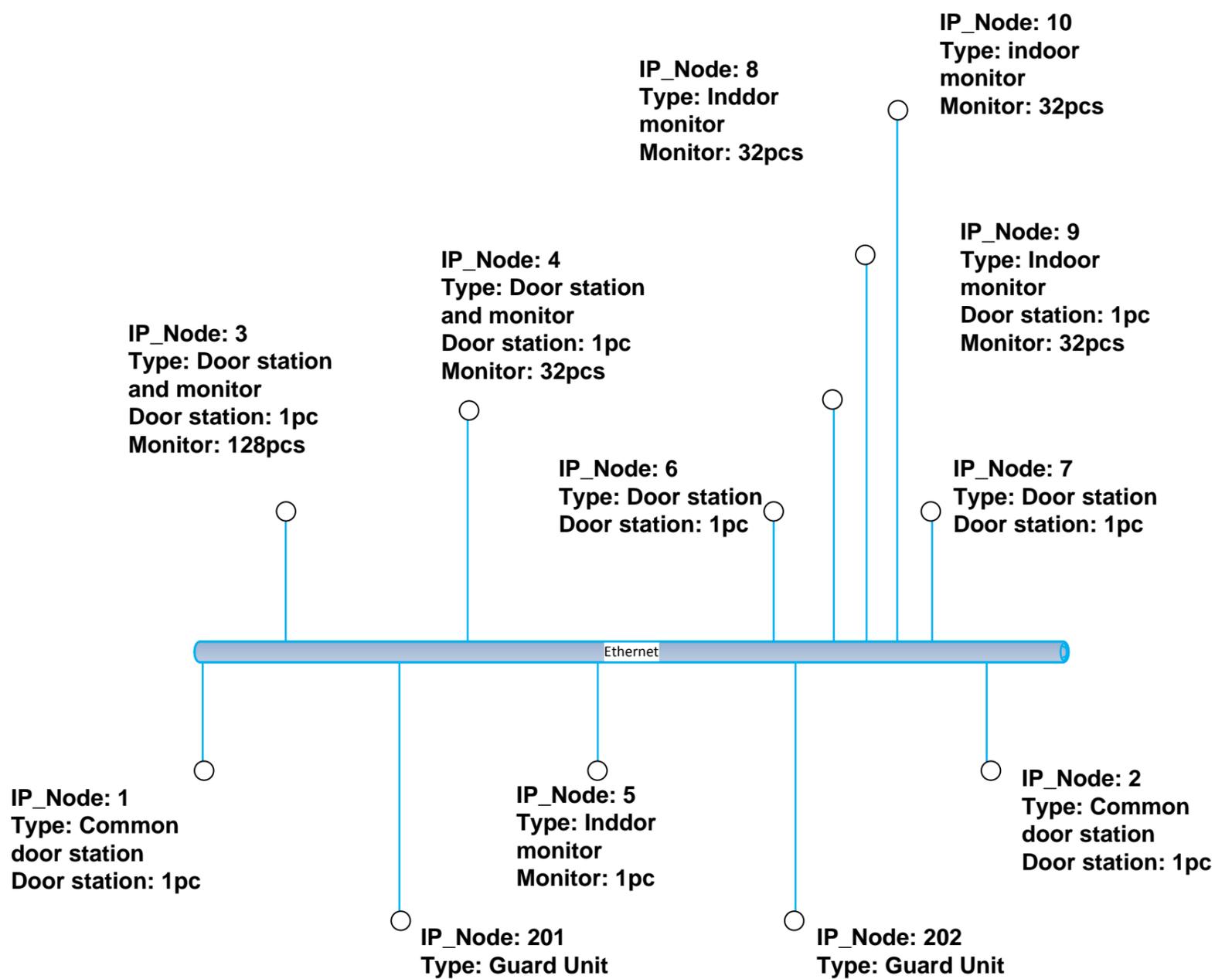
-  **1. Common Door station**, this Node Type connect with one DPC-D218S, and it can call to all the indoor units in the whole system, such as D1 and D2 in the example
-  **2. Door station and Indoor Monitor**, this Node Type connect with multi door station (less than 4) and multi indoor units (less than 32 video or 128 audio), door station is private and can only reach to this building. such as A1, A2 and A3 in the example
-  **3. Door station**, this Node Type connect with one DPC-D218S, but it limits to call to only the indoor units inside the building, it works for the building as normally door station, such as C1 and C2 in the example
-  **4. Indoor Monitor**, this Node Type connect with only multi monitors(no more 32), it is a extent for the High-Rise building for each more 32 monitors, such as B1, B2 and B3 in the example
-  **5. Guard Unit**, this Node Type is not IPG but DPM-D246-IP, it can call all the units and been call by any door station, such

Residential complexes, audio/video

2 Wire Cable 

Cat5 Cable 

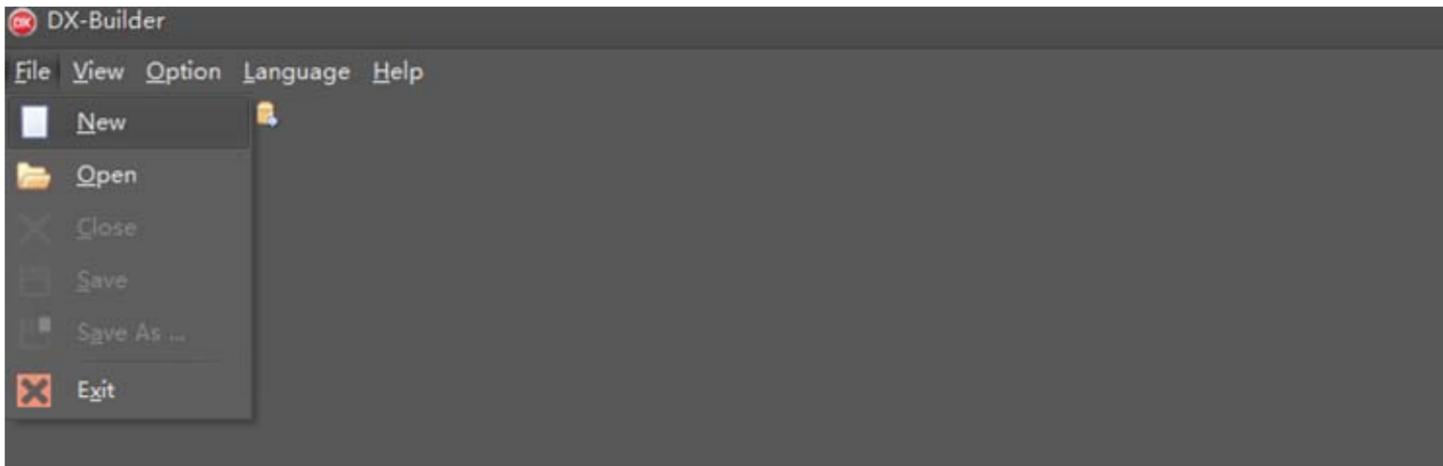




## Create a New Project

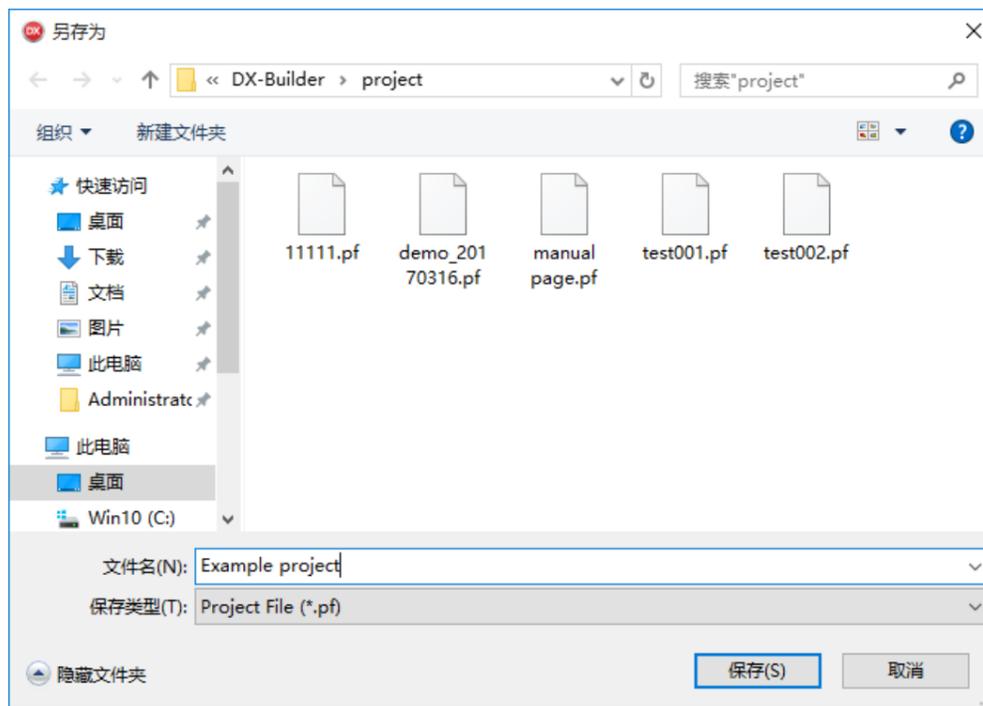
1. There are 2 ways to create a new project:

1). Click "File" on the Menu bar and click on "New"

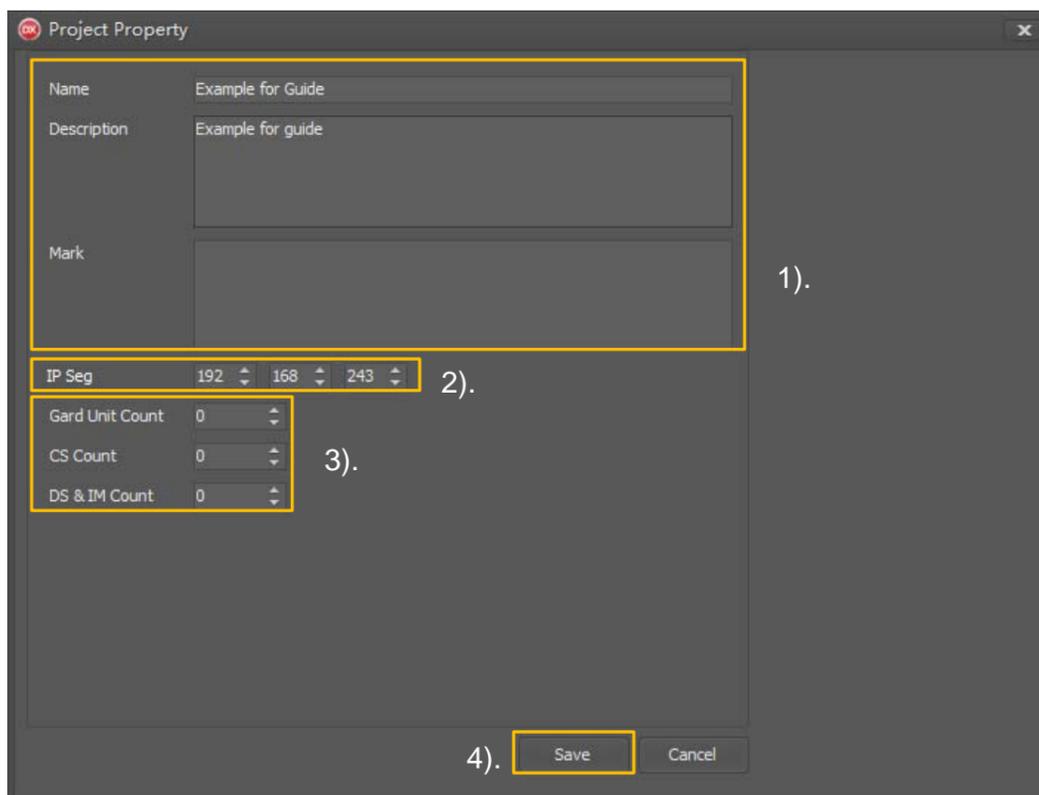


2). Click "New"  icon on the tool bar

2. After create a new project a window will pop up, choose the project file storage directory and name for the project.



3. After create a new project a window will pop up, choose the project file storage directory and name for the project.



1). Enter general description for the project, which is changeable in the next

2). Enter the IP segment for IPG, by default is start with 192.168.243

3). Fill in 3 Basic IP\_Node's quantity:

Guard Unit

CS - Common door station

DS&IM - Door station and Indoor monitor

For rest of two IP\_Node type (Indoor monitor and Door station) can be added in the setting window. And all configuration is editable in setting window. Here will fill in "2,2,2" as the example project

4). Click on "Save" to save the project

## Open a exist Project

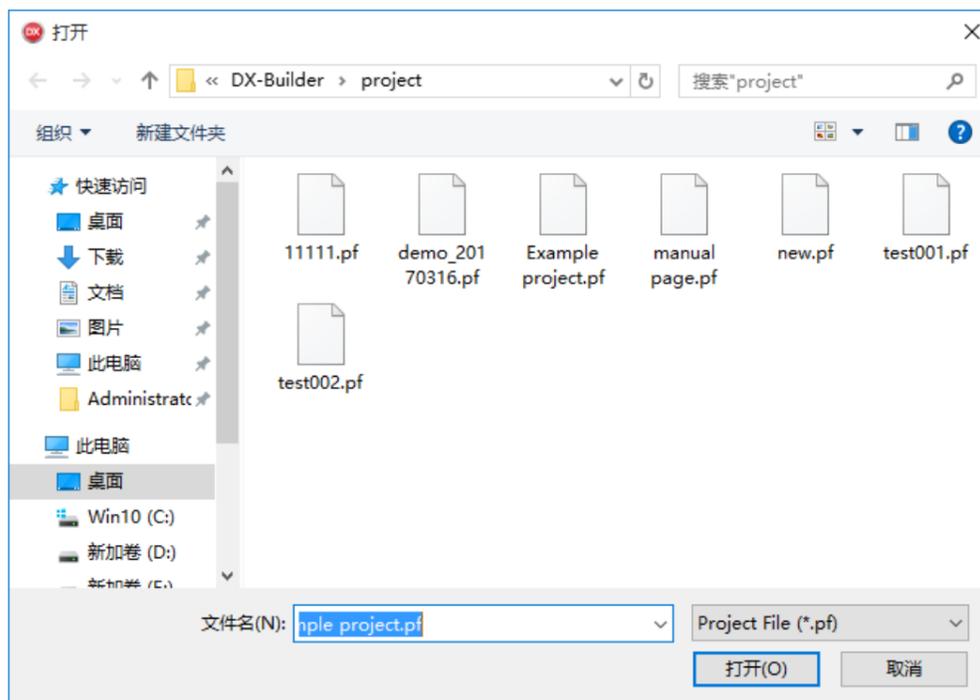
1. There are 2 ways to create a new project:

1). Click "File" on the Menu bar and click on "Open"



2). Click "New"  icon on the tool bar

2. Select the .pf project file need to open and click on "Open" button to open



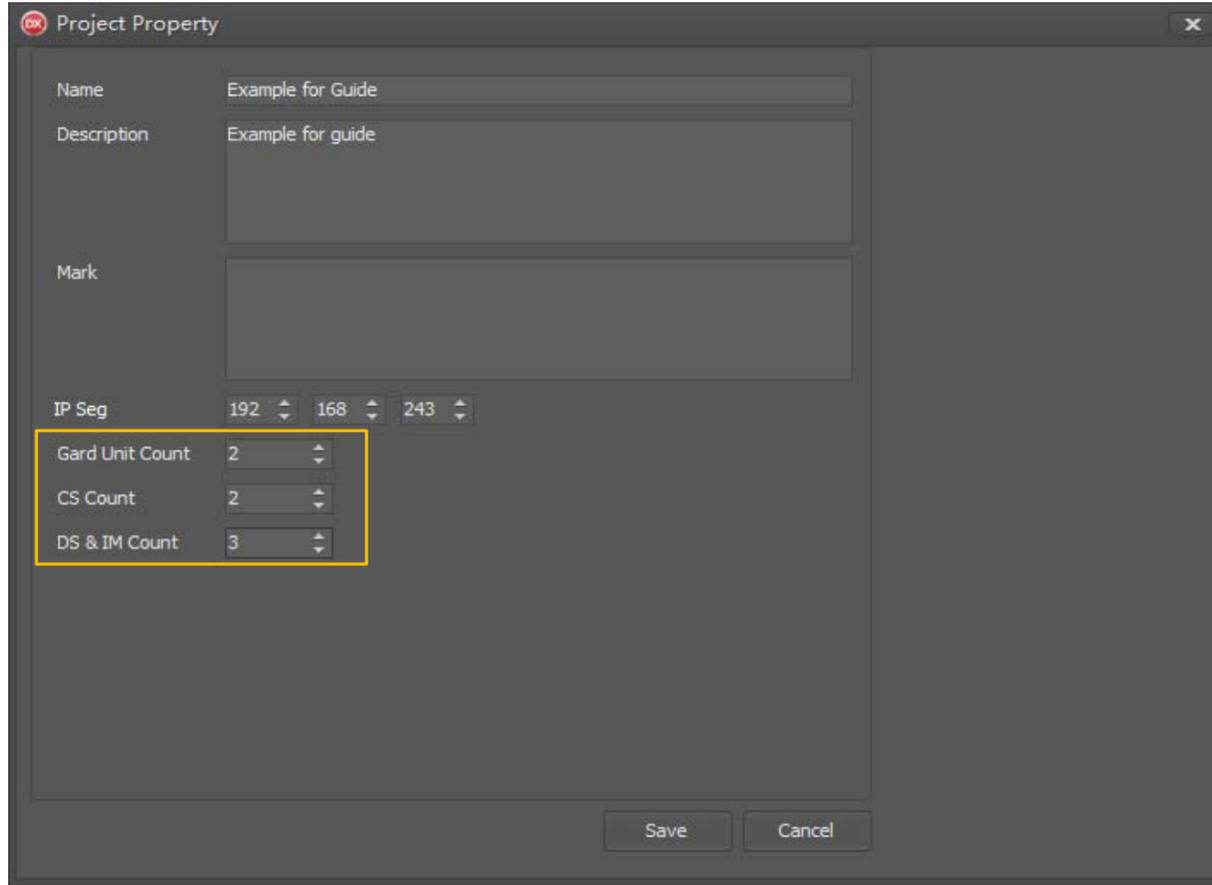
## Adding IP device

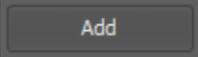
There are two ways adding device, manually and by Discovery

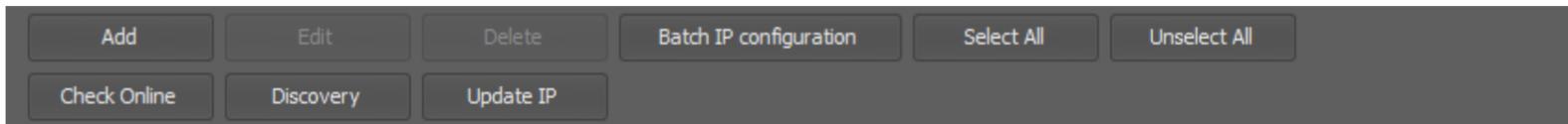
### Manually

Manually adding the IP devices is more suitable for a new project, that all IP devices are configure first then install to the filed according to the configuration

1. In the create a new project process fill in the quantity of 3 basic IP devices (IP\_Node), As for example project that will be as below



2. Click on the  button to create a new device on the setting window



3. On the setting window, click on the blank Node item area to input the Node ID, Node ID shall not be duplicate With exist one

Selected	Node ID	IP	Name	Node Type	Device Type
<input type="checkbox"/>	1	192.168.243.1	CS_01	Common Station	
<input type="checkbox"/>	2	192.168.243.2	CS_02	Common Station	
<input type="checkbox"/>	3	192.168.243.3	Unit_003	Door Station & Indoor	
<input type="checkbox"/>	4	192.168.243.4	Unit_004	Door Station & Indoor	
<input type="checkbox"/>	201	192.168.243.201	GU_201	Gard Unit	
<input type="checkbox"/>	202	192.168.243.202	GU_202	Gard Unit	
<input type="checkbox"/>	*				

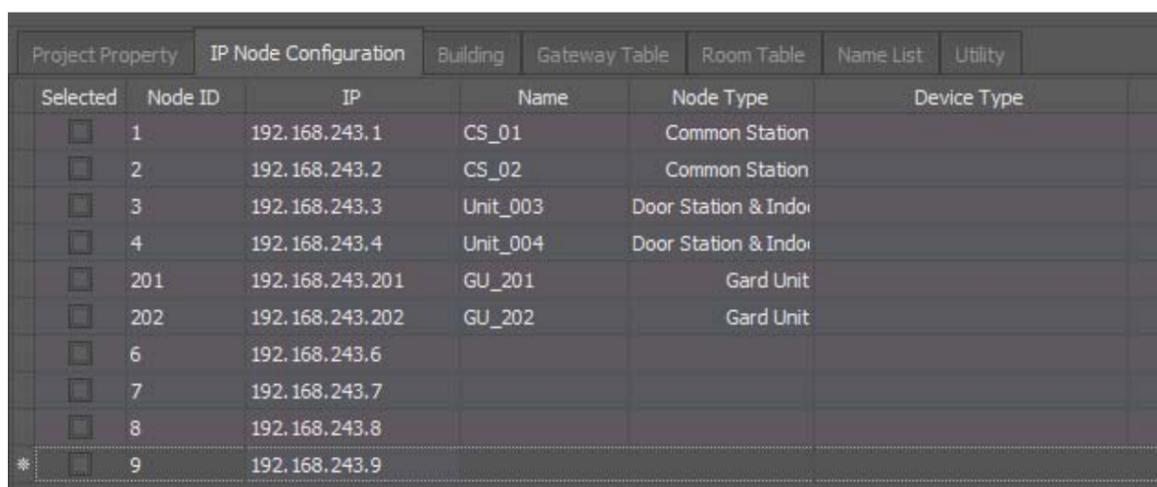
4. On the setting window, click on the blank item area to input the IP address, IP address shall not be duplicate With exist one



5. Enter the subnet and the mask for IPG.(scroll the scrollbar to the right ), and fill in the item. By default Mask is 255.255.255.0, and Gateway is 192.168.243.200

Mask	Gateway
255.255.255.0	192.168.243.200

6. Repeat Step5~6 to finish all IPG adding

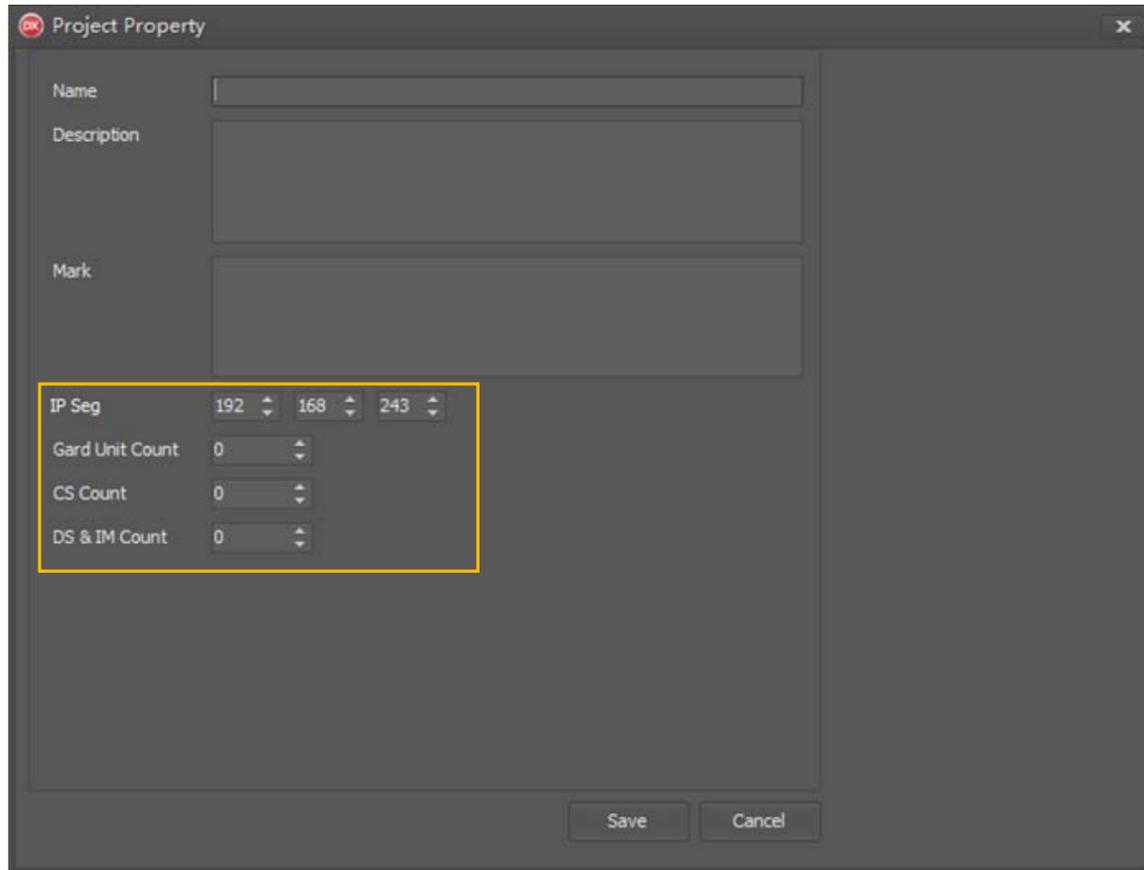


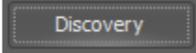
Selected	Node ID	IP	Name	Node Type	Device Type
<input type="checkbox"/>	1	192.168.243.1	CS_01	Common Station	
<input type="checkbox"/>	2	192.168.243.2	CS_02	Common Station	
<input type="checkbox"/>	3	192.168.243.3	Unit_003	Door Station & Indoor	
<input type="checkbox"/>	4	192.168.243.4	Unit_004	Door Station & Indoor	
<input type="checkbox"/>	201	192.168.243.201	GU_201	Gard Unit	
<input type="checkbox"/>	202	192.168.243.202	GU_202	Gard Unit	
<input type="checkbox"/>	6	192.168.243.6			
<input type="checkbox"/>	7	192.168.243.7			
<input type="checkbox"/>	8	192.168.243.8			
<input type="checkbox"/>	9	192.168.243.9			

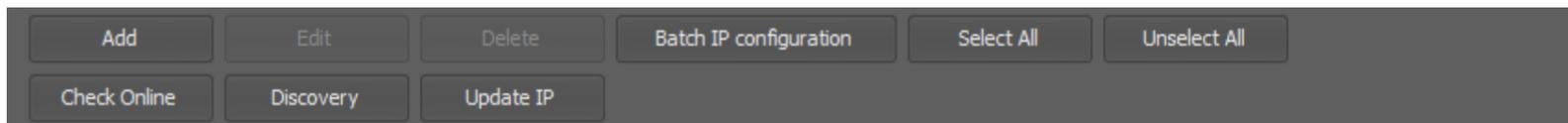
## Discovery

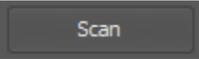
Discovery IP devices is more suitable for a exist project, or IPG is connect to the network, is more effective way to add devices to setting window

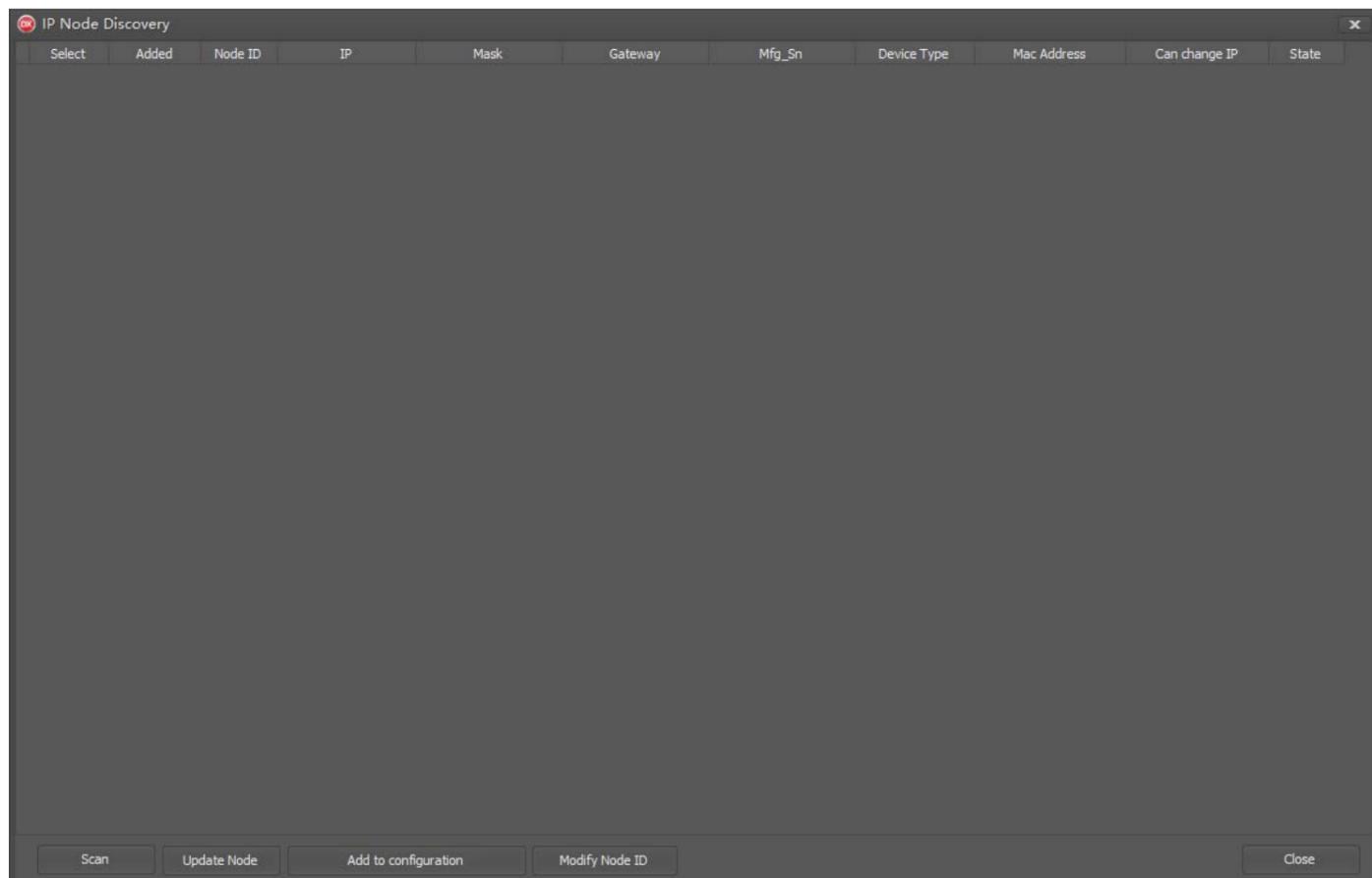
1. In the create a new project process not need to fill in the quantity of any IPGs, and keep it remain to 0



2. Click on the  button to create a new device on the setting window



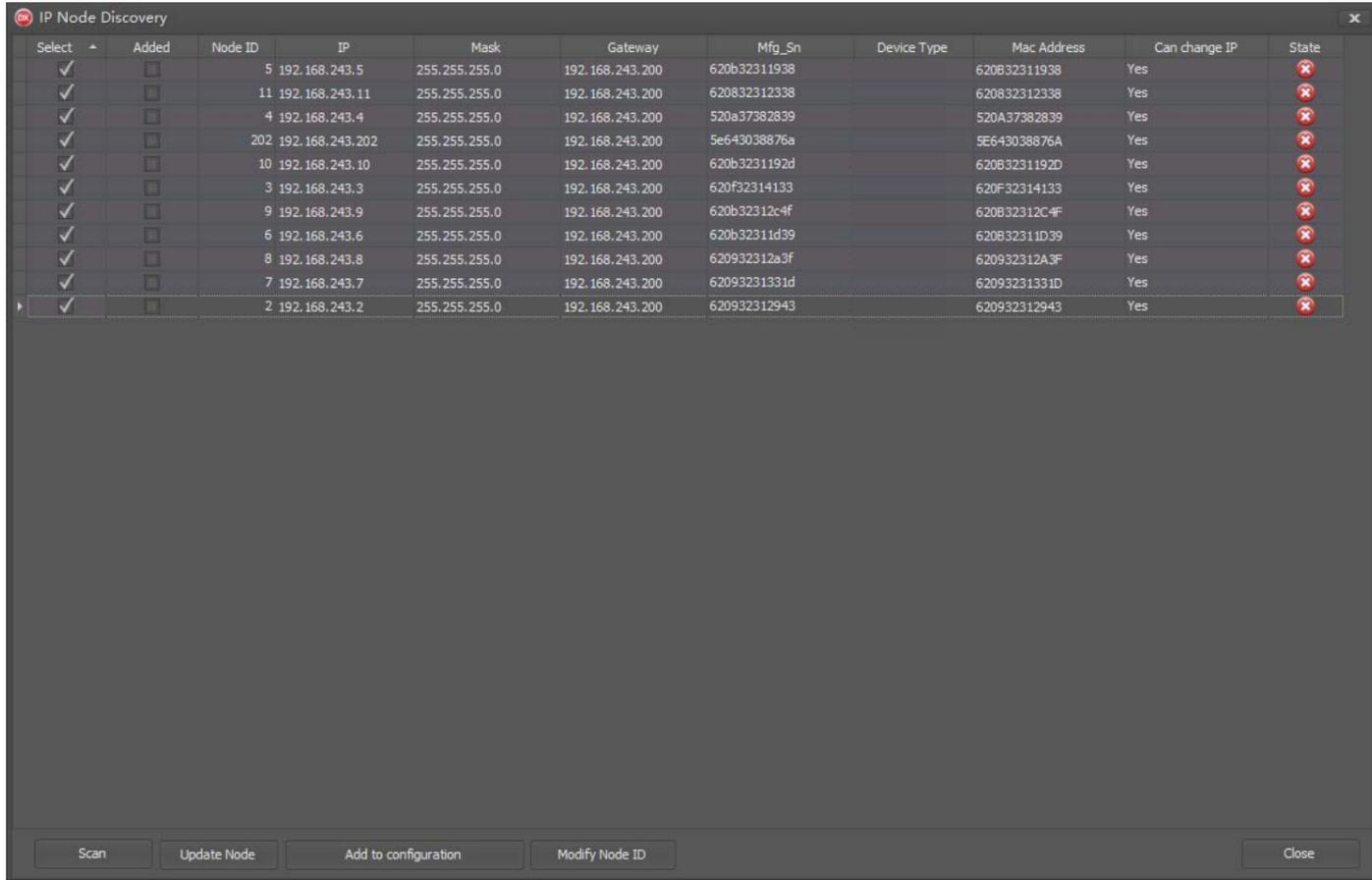
3. A new window "IP Node Discovery" window will pop up and Click on the  button on the bottom to search all IP devices connected on the network



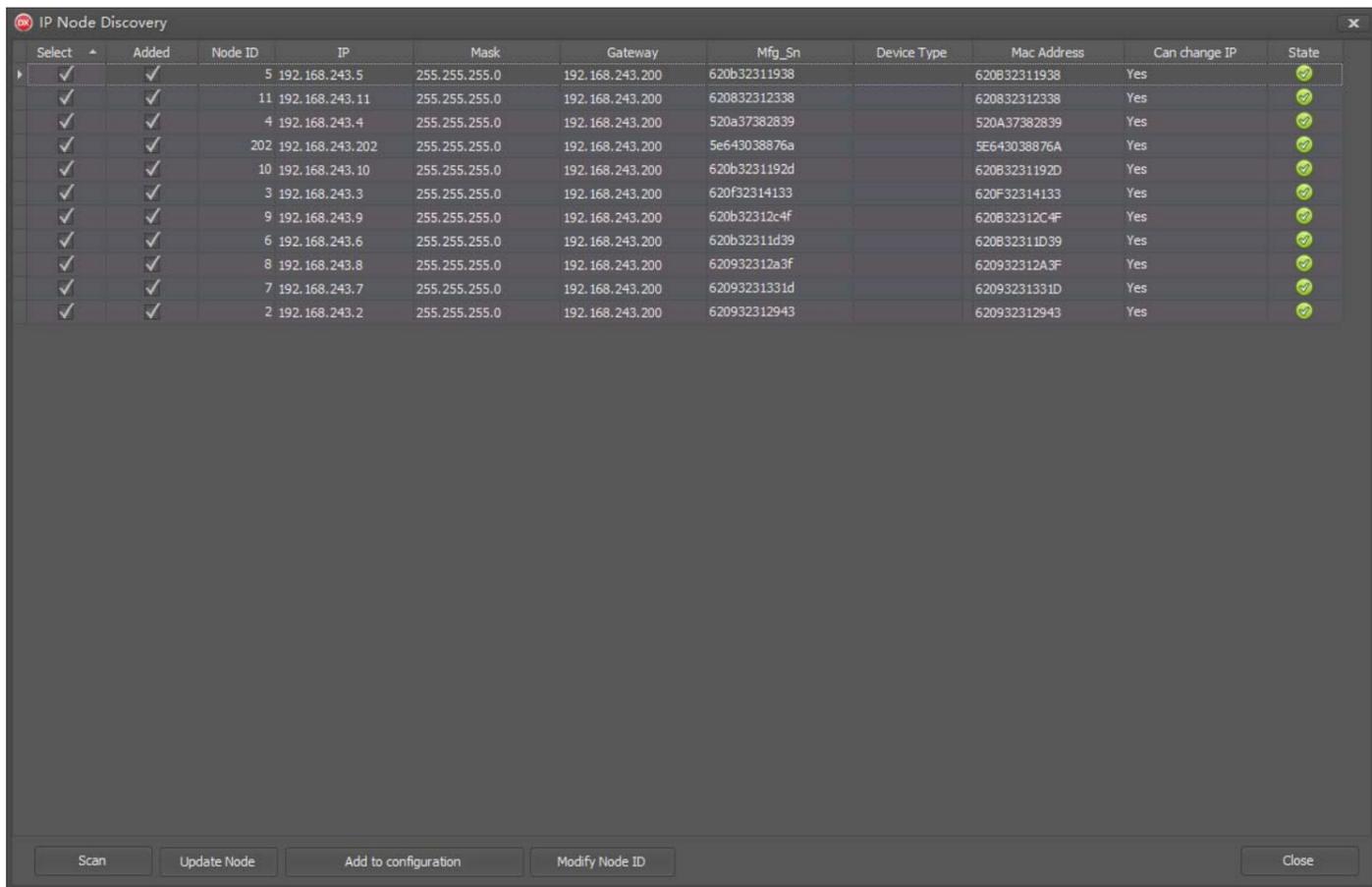
4. A list will be shown on the blank area with all connect IP devices and provide a basic information for devices. Click on the title item of the can change the sort of order

Select	Added	Node ID	IP	Mask	Gateway	Mfg_Sn	Device Type	Mac Address	Can change IP	State
<input type="checkbox"/>	<input type="checkbox"/>	5	192.168.243.5	255.255.255.0	192.168.243.200	620b32311938		620B32311938	Yes	
<input type="checkbox"/>	<input type="checkbox"/>	11	192.168.243.11	255.255.255.0	192.168.243.200	620832312338		620832312338	Yes	
<input type="checkbox"/>	<input type="checkbox"/>	4	192.168.243.4	255.255.255.0	192.168.243.200	520a37382839		520A37382839	Yes	
<input type="checkbox"/>	<input type="checkbox"/>	202	192.168.243.202	255.255.255.0	192.168.243.200	5e643038876a		5E643038876A	Yes	
<input type="checkbox"/>	<input type="checkbox"/>	10	192.168.243.10	255.255.255.0	192.168.243.200	620b3231192d		620B3231192D	Yes	
<input type="checkbox"/>	<input type="checkbox"/>	3	192.168.243.3	255.255.255.0	192.168.243.200	620f32314133		620F32314133	Yes	
<input type="checkbox"/>	<input type="checkbox"/>	9	192.168.243.9	255.255.255.0	192.168.243.200	620b32312c4f		620B32312C4F	Yes	
<input type="checkbox"/>	<input type="checkbox"/>	6	192.168.243.6	255.255.255.0	192.168.243.200	620b32311d39		620B32311D39	Yes	
<input type="checkbox"/>	<input type="checkbox"/>	8	192.168.243.8	255.255.255.0	192.168.243.200	620932312a3f		620932312A3F	Yes	
<input type="checkbox"/>	<input type="checkbox"/>	7	192.168.243.7	255.255.255.0	192.168.243.200	62093231331d		62093231331D	Yes	
<input type="checkbox"/>	<input type="checkbox"/>	2	192.168.243.2	255.255.255.0	192.168.243.200	620932312943		620932312943	Yes	

5. Tick on  the IP devices which need to be added on the "Select" item, and click on the **Add to configuration** button to add selected devices to the setting window



6. The adding process will take a while, and the software will check the state of all devices and a window will show, the "Added" be ticked means the device is already exist in the setting window, and with the state will be change to  and click on "Close" button or "X" to exit discovery



7. The setting window will show as below, next according to the "Manually" process to add devices are not connected yet,

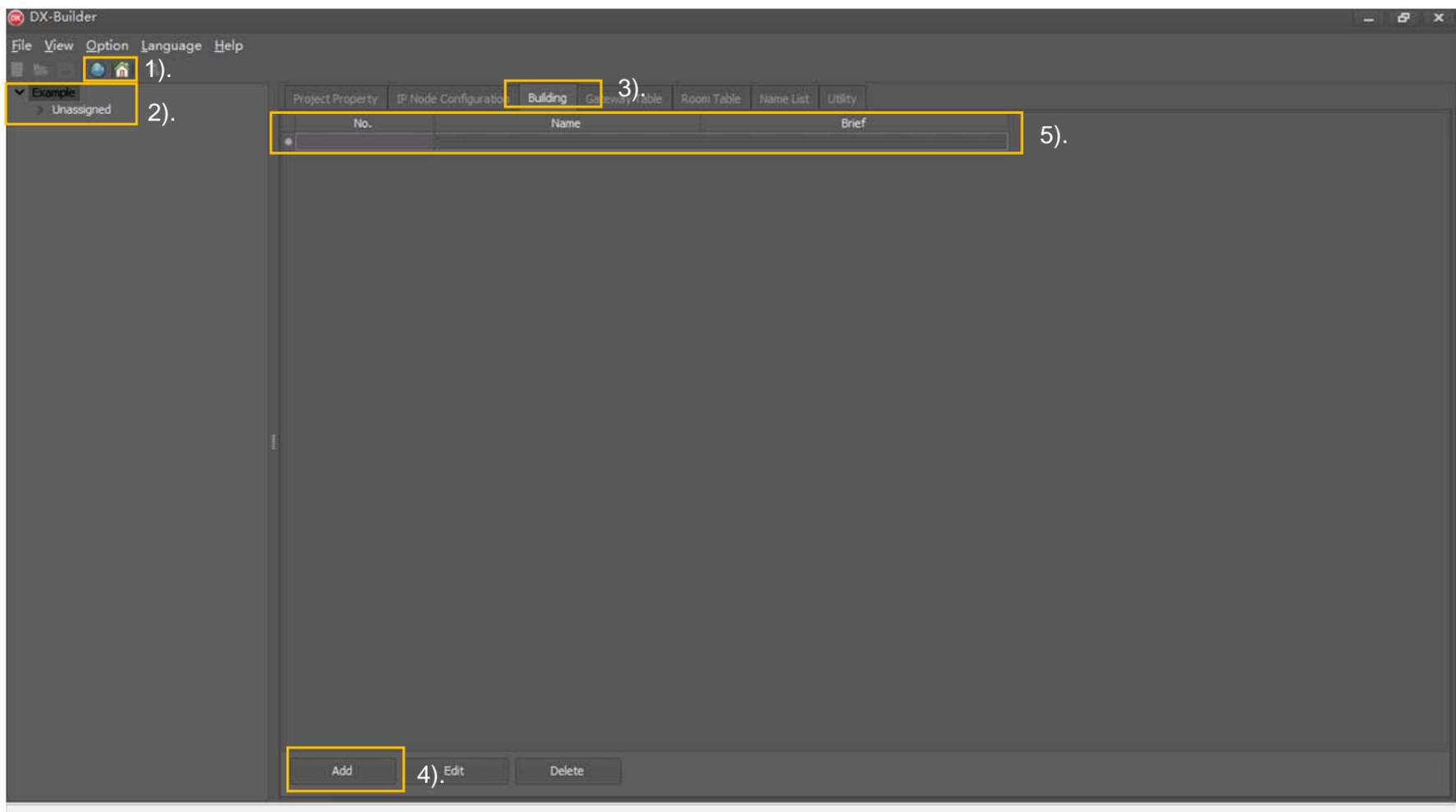
Project Property		IP Node Configuration	Building	Gateway Table	Room Table	Name List	Utility	
Selected	Node ID	IP	Name	Node Type	Device Type	Building	Input	St
<input type="checkbox"/>	2	192.168.243.2		None		002	?	U
<input type="checkbox"/>	3	192.168.243.3		None		003	?	U
<input type="checkbox"/>	4	192.168.243.4		None		004	?	U
<input type="checkbox"/>	5	192.168.243.5		None		005	?	U
<input type="checkbox"/>	6	192.168.243.6		None		006	?	U
<input type="checkbox"/>	7	192.168.243.7		None		007	?	U
<input type="checkbox"/>	8	192.168.243.8		None		008	?	U
<input type="checkbox"/>	9	192.168.243.9		None		009	?	U
<input type="checkbox"/>	10	192.168.243.10		None		010	?	U
<input type="checkbox"/>	11	192.168.243.11		None		011	?	U
<input type="checkbox"/>	202	192.168.243.202		None		202	?	U

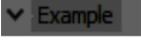
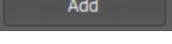
## Building

Building is an important property when the system is with high-rise building, by sign with a group of IPG into same building means that those IPGs only work for that building. Also "Building" property provides "Building" view to check IP-Devices

### Add a Building

To add a building in the Global Settings for the project



- 1). Click on the  icon to change to device view into "Building View"
- 2). Click on the  main title of this project, ensure the setting window is for global settings
- 3). Click on the  tab to go into Building tab
- 4). Click on the  button to create a new item for building
- 5). Fill in the Building information.
  - No.: Number for the Building
  - Name: Name for the Building, will show on DPM-D246-IP units' list
  - Brief: Annotation for the building, not a must
- 6). Repeat step.3~4 to finish all edit

On the device view the new added building will show on the list, but it doesn't been sign to any IPG yet so is empty

No.	Name	Brief
1	Building 1-Auido	128IM 1DS
2	Building 2-Video	32IM 1DS
3	Building 3-Villa	1IM 1DS
4	Building 4-High-Rise Building	96IM 2DS

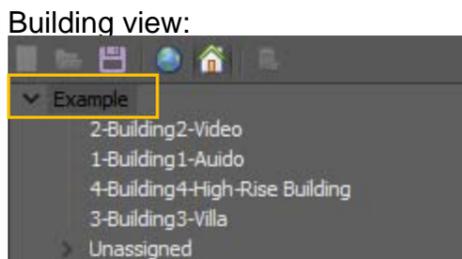
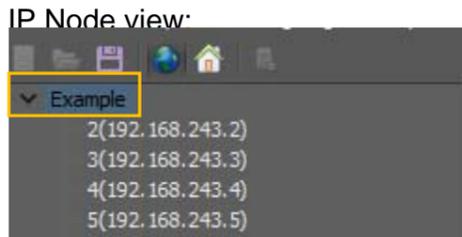
## Global settings-IP Node configuration

Global settings is use to configure the basic and important property for each IP devices in the setting window, 6 properties are required to configure manuallly.

- Name: Mark name for the IPG
- Node type: different function for IPG
- Device type: whether this unit is IPG or DPM-D246-IP
- Building: Identity which building IPG are working for.
- Input: Calling codes setting, provides a friendly input call codes to end-user
- Extent Mode: whether the IPG is in extent mode

### How to configure

1. Click on the main title on the device view.



2. Click on the "IP Node Configuration" tab, and configure will be show on the setting window.

Selected	Node ID	IP	Name	Node Type	Device Type	Building	Input	State	Mac Address	Extend Mode
<input type="checkbox"/>	2	192.168.243.2		None			002	? Unchecked		NOEXTEND
<input type="checkbox"/>	3	192.168.243.3		None			003	? Unchecked		NOEXTEND
<input type="checkbox"/>	4	192.168.243.4		None			004	? Unchecked		NOEXTEND
<input type="checkbox"/>	5	192.168.243.5		None			005	? Unchecked		NOEXTEND
<input type="checkbox"/>	6	192.168.243.6		None			006	? Unchecked		NOEXTEND
<input type="checkbox"/>	7	192.168.243.7		None			007	? Unchecked		NOEXTEND
<input type="checkbox"/>	8	192.168.243.8		None			008	? Unchecked		NOEXTEND
<input type="checkbox"/>	9	192.168.243.9		None			009	? Unchecked		NOEXTEND
<input type="checkbox"/>	10	192.168.243.10		None			010	? Unchecked		NOEXTEND
<input type="checkbox"/>	11	192.168.243.11		None			011	? Unchecked		NOEXTEND
<input type="checkbox"/>	202	192.168.243.202		None			202	? Unchecked		NOEXTEND

Buttons: Add, Edit, Delete, Batch IP configuration, Select All, Unselect All, Check Online, Discovery, Update IP

### How to configure

The settings as blow, if parts of not show on the list, scroll the scrollbar to right on the bottom can check more setting items

- Select: click on the frame or click "Select All" / "Unselect All" to change the state of been sleeted.
- Node ID: ID number that is unique for each IPG, editable
- IP: IP address for IPG.
- Name: Enter name for IPG
- Node type: Click to select different duty for IPG, total 5 types
- Device type: Click to select the identity the device is IPG or DPM-D246-IP
- Building: Click to select IPG sever for which building, building is add and edit on Tab Building
- Input: Calling codes to reach this IPG or DPM-D246-IP, as the Building No. on the DPC-D218S's settings
- State: Showing the state of IPGs, "Unchecked"- haven't been check yet, "Online"- device connected "Offline"- device unconnected
- Mac Address: Each IPG's Mac address is unique and is not editable
- Extent Mode: for video monitor select "DT\_32", for audio handset select "DT\_128", not connect with indoor units select "NOEXTENT "
- Gateway: IPG Network's gateway, by default is 192.168.243.200
- Msg\_Sn: Serial Number for IPG
- Brief: Enter information for mark

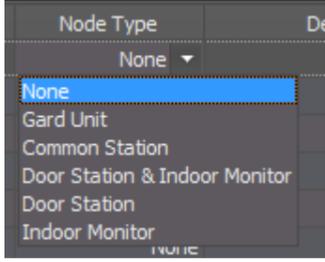
## Name

Click on the blank arear of the "Name" item to enter the name for the IP device, this property is only a mark for the device



## Node type

Click on the blank arear of the "Node Type" item, and click on the  icon select a item in the dropdown list.



Select the Node type as below example. Total 5 types of them

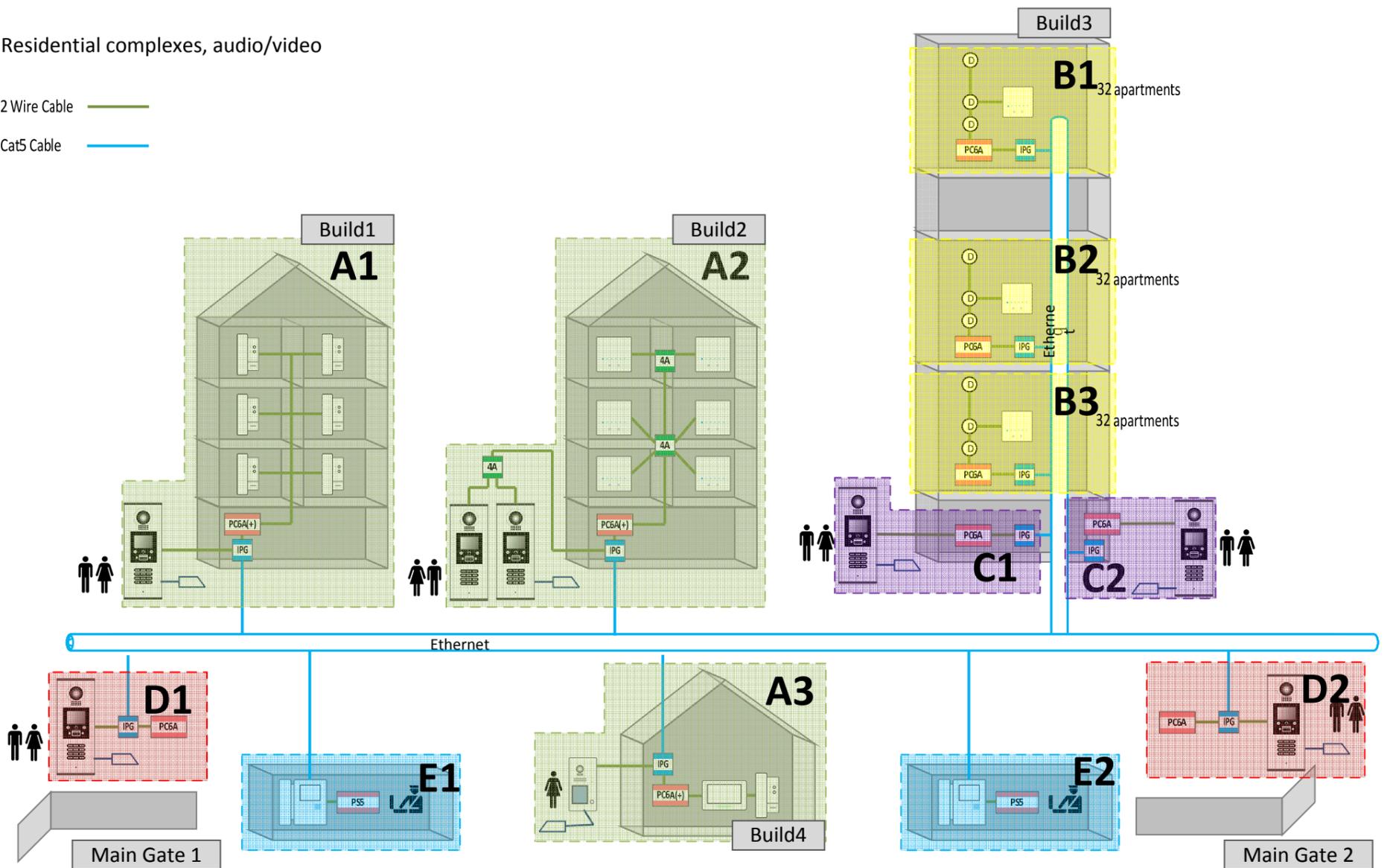
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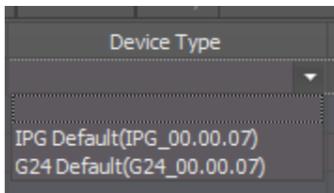
Residential complexes, audio/video

2 Wire Cable   
Cat5 Cable 



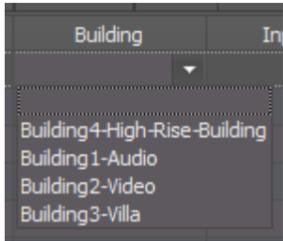
## Device type

Only 2 types IP devices in 2-Wire system, one is IPG and other is DPM-D246-IP guard unit, click on the blank area of the "Deice type" and click on the icon  and select one form the dropdown list



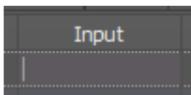
## Building

Click on the blank arear of the "Building" item, and click on the  icon select a item in the dropdown list. If the dropdown list is empty please add building on the building tab, for common door station leaves blank on this property



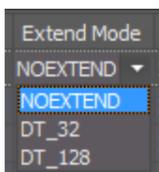
## Input

Click on the blank arear of the "Input" item to enter the name for the Input call codes, here is the input to reach this IPG.



## Extend Mode

Click on the blank arear of the "Extent" item, and click on the  icon select a item in the dropdown list.



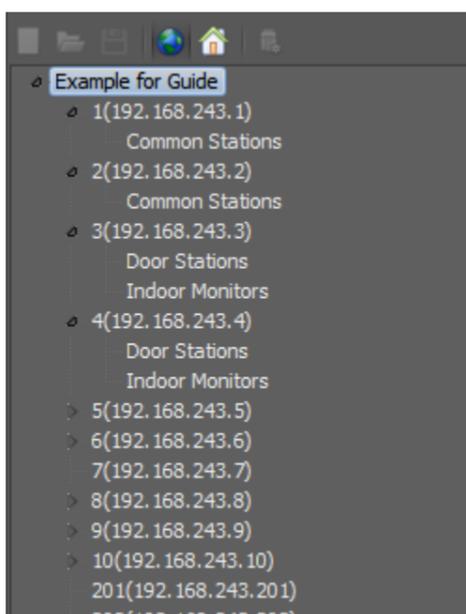
NOEXTEND: No indoor unit is connect with this IPG  
 DT\_32: IPG is connect with video monitors  
 DT\_128: IPG is connect with only audio handsets

After configure all above property the list will as follow

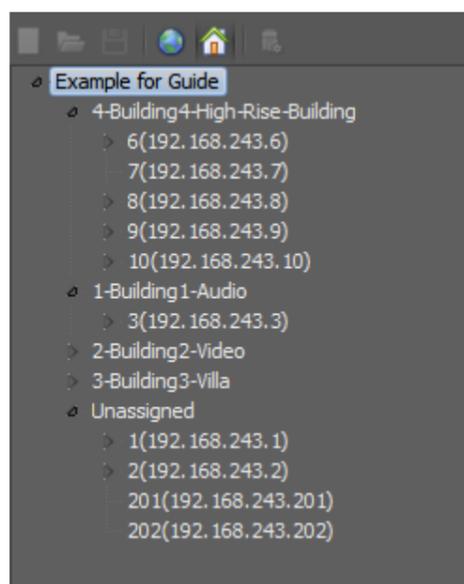
Selected	Node ID	IP	Name	Node Type	Device Type	Building	Input
<input type="checkbox"/>	1	192.168.243.1	Main Gate1	Common Station	IPG Default(IPG_00.00.07)		81
<input type="checkbox"/>	2	192.168.243.2	Main Gate2	Common Station	IPG Default(IPG_00.00.07)		82
<input checked="" type="checkbox"/>	3	192.168.243.3	Audio Building-1	Door Station & Indo	IPG Default(IPG_00.00.07)	Building1-Audio	01
<input type="checkbox"/>	4	192.168.243.4	Video Building-2	Door Station & Indo	IPG Default(IPG_00.00.07)	Building2-Video	02
<input type="checkbox"/>	5	192.168.243.5	Villa-3	Door Station & Indo	IPG Default(IPG_00.00.07)	Building3-Villa	03
<input type="checkbox"/>	6	192.168.243.6	Door 1 for Hi-rise	Door Station	IPG Default(IPG_00.00.07)	Building4-High-Rise-E	04
<input type="checkbox"/>	7	192.168.243.7	Door 1 for Hi-rise	None	IPG Default(IPG_00.00.07)	Building4-High-Rise-E	04
<input type="checkbox"/>	201	192.168.243.201	GU	Gard Unit	G24 Default(G24_00.00.07)		
<input type="checkbox"/>	202	192.168.243.202	GU	Gard Unit	G24 Default(G24_00.00.07)		
<input type="checkbox"/>	9	192.168.243.9	Extent2for hi-rise	Indoor Monitor	IPG Default(IPG_00.00.07)	Building4-High-Rise-E	04
<input type="checkbox"/>	8	192.168.243.8	Extent1for hi-rise	Indoor Monitor	IPG Default(IPG_00.00.07)	Building4-High-Rise-E	04
<input type="checkbox"/>	10	192.168.243.10	Extent3for hi-rise	Indoor Monitor	IPG Default(IPG_00.00.07)	Building4-High-Rise-E	04

And check on the device view, the device are automatically out the configure.

## IP Node View



## Building View



## Separate settings

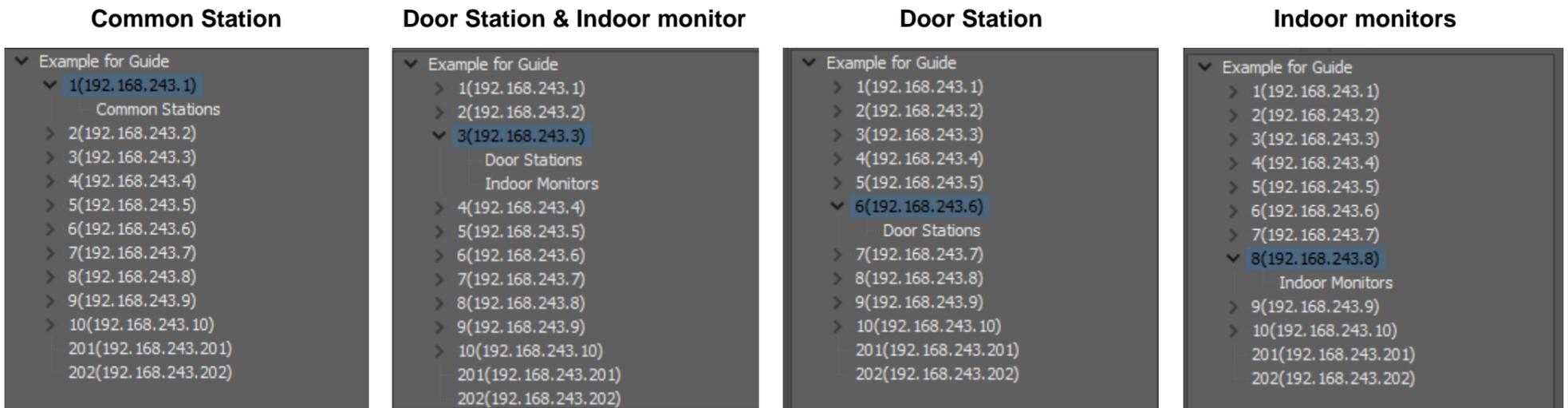
Before this step you need to configure the Global settings on the setting window before, otherwise the setting there won't be any setting items

Separate settings for the IPG is mainly to set the quantity, input and name for the 2-Wire devices that are connected on the this IPG, you can set those settings on different view of the device view

## Select IPG – IP Node View

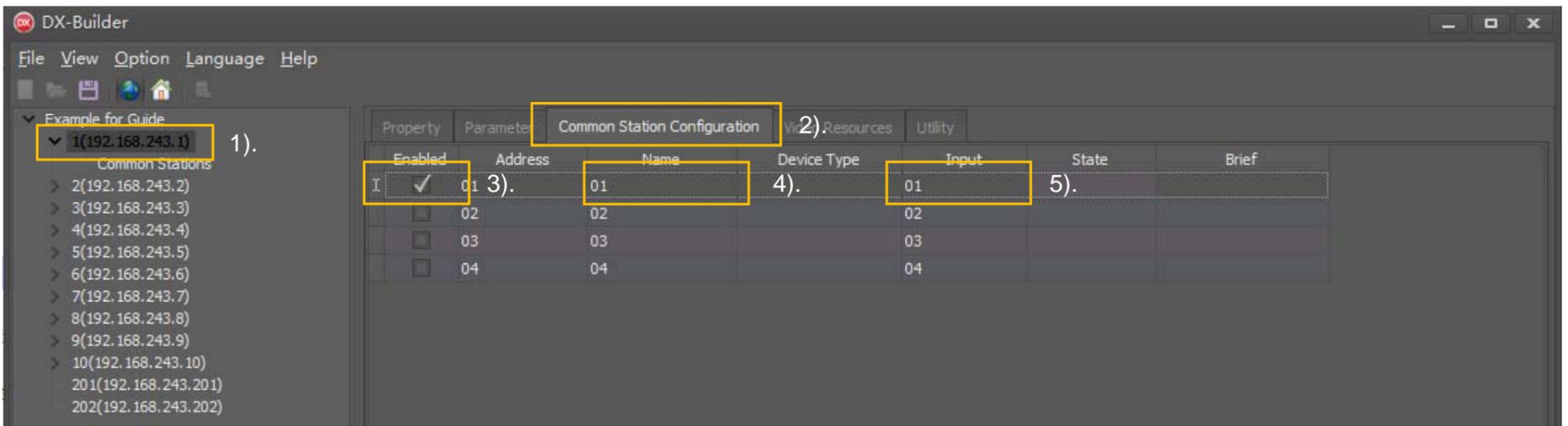
Separate settings for the IPG is mainly to set the quantity, input and name for the 2-Wire devices that are connected on the this IPG, you can set those settings on different view of the device view

Click on the IPG on the device view need to be configure, and click on the  icon to show all kind of device of need to configure, according to the Node type there will be:



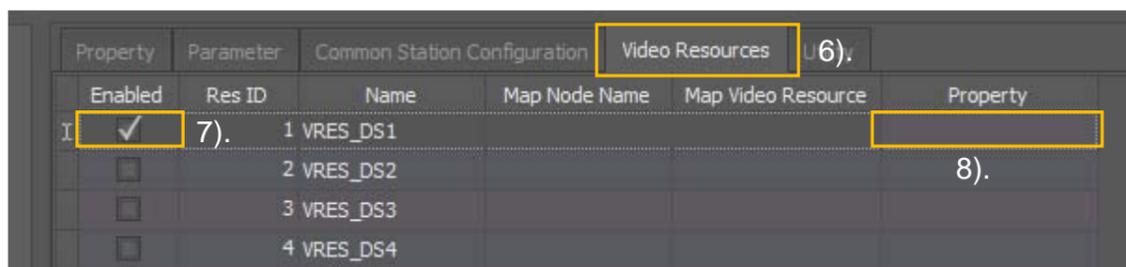
## Common Station

For common Station, video resource and door station setting is a must.

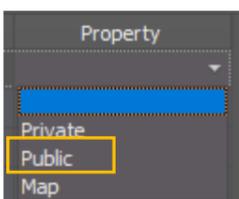


- 1). Click on the  **1(192.168.243.1)** IPG need to configure and make the background be selected.
- 2). Click on the **Common Station Configuration** tab on the "Setting Window"
- 3). Tick on  the door station with address 1
- 4). Enter the name of the Door Station
- 5). Enter the Input call codes, with the IPG's call codes setting on the Global Settings and this input combine with a complete call input call code for DPM-D246-IP

Note: Click on the dropdown list also call out the setting page  **1(192.168.243.1)** **Common Stations** rest of the item not need fill in



- 6). Click on the **Video Resources** tab on the "Setting Window"
- 7). Tick on  the on the first one, means to this IPG will provide a video/camera(a door station's)
- 8). Click on the blank item on the "Property", and after that click on the  to call out a dropdown list

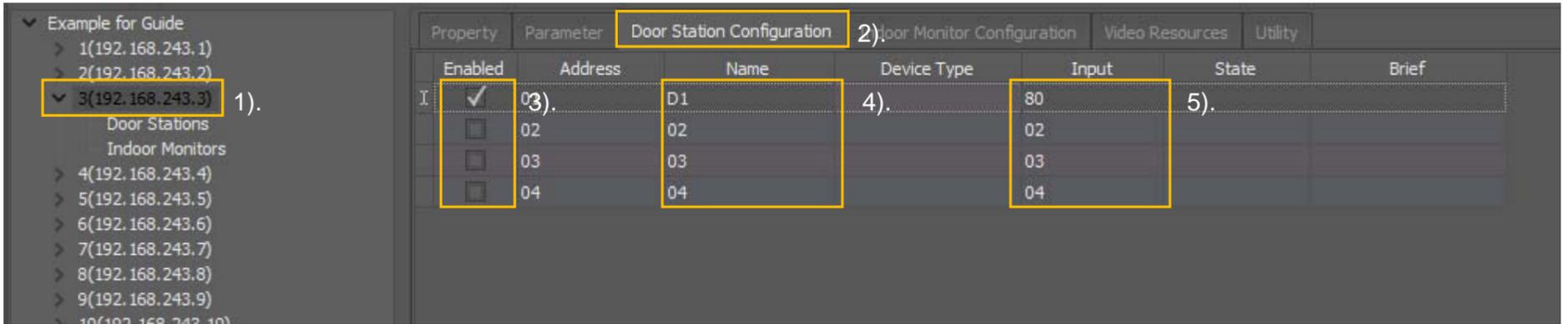


- 9). Click on the "Public", means this camera is open video for the system, the configure is finish.

## Door Station & Indoor monitor

For common Station, video resource, door station and setting is a must. For this kind of IPG will connect with maximum 4 door station and maximum 32 monitors

### Building's door station quantity, name and input.

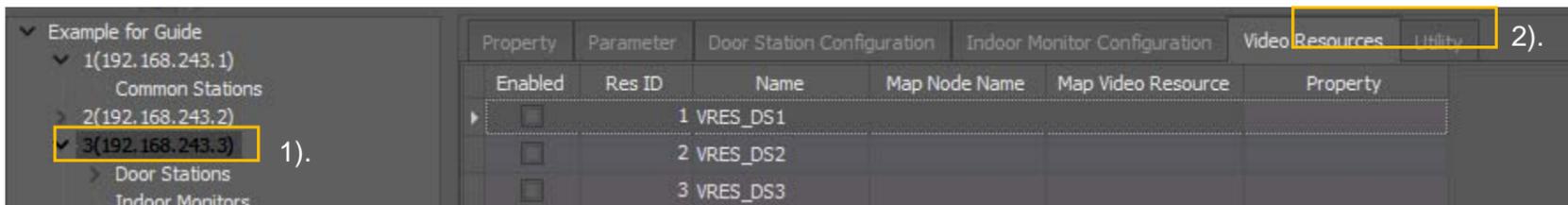


- 1). Click on the **3(192.168.243.3)** IPG need to configure and make the background be selected.
- 2). Click on the **Door Station Configuration** tab on the "Setting Window"
- 3). Tick on  the door stations are connect on this IPG, maximum 4pcs
- 4). Enter the name for thoes Door Station
- 5). Enter the Input call codes, the call codes input must be **Unduplicated**, call codes for door station is for guard unit to call.

Note: Click on the dropdown list also call out the setting page **3(192.168.243.3) Door Stations** rest of the item not need fill in

### Building's Video resource

- 3). Tick on  the door stations are connect on this IPG, maximum 4pcs
- 4). Enter the name for thoes Door Station



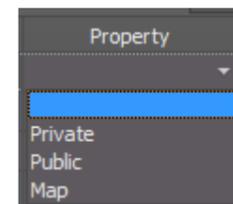
- 1). Click on the **3(192.168.243.3)** IPG need to configure and make the background be selected.
- 2). Click on the **Video Resources** tab on the "Setting Window"

Following list is to configure for monitoring list, there are total 24 video resource in the list. For monitor DPM-D244/D236/D245/D273TMD you can monitor on DS1~DS4 and CAM1~4, for DPM-D276 the maximum is DS1~DS4 and CAM1~CAM16, for DPM-D274TMD/D275TMD the maximum is all the resource.

In general 2-Wire system if you are not connect with those DS or CAM, when try to monitoring to those DS or CAM, units will deny monitoring. In here although those video device is not connected, but allowed to mapping one or more video resources to other DS or CAM on the network. Each IPG have 24 video resources allowed the monitor connect it with to surveillance, or provide the video resources to the network.

Enabled	Res ID	Name	Map Node Name	Map Video Resource	Property
<input type="checkbox"/>	1	VRES_DS1			
<input type="checkbox"/>	2	VRES_DS2			
<input type="checkbox"/>	3	VRES_DS3			
<input type="checkbox"/>	4	VRES_DS4			
<input type="checkbox"/>	5	VRES_CAM1			
<input type="checkbox"/>	6	VRES_CAM2			
<input type="checkbox"/>	7	VRES_CAM3			
<input type="checkbox"/>	8	VRES_CAM4			
<input type="checkbox"/>	9	VRES_CAM5			
<input type="checkbox"/>	10	VRES_CAM6			
<input type="checkbox"/>	11	VRES_CAM7			
<input type="checkbox"/>	12	VRES_CAM8			
<input type="checkbox"/>	13	VRES_CAM9			
<input type="checkbox"/>	14	VRES_CAM10			
<input type="checkbox"/>	15	VRES_CAM11			
<input type="checkbox"/>	16	VRES_CAM12			
<input type="checkbox"/>	17	VRES_CAM13			
<input type="checkbox"/>	18	VRES_CAM14			
<input type="checkbox"/>	19	VRES_CAM15			
<input type="checkbox"/>	20	VRES_CAM16			
<input type="checkbox"/>	21	VRES_QSW1			
<input type="checkbox"/>	22	VRES_QSW2			
<input type="checkbox"/>	23	VRES_QSW3			
<input type="checkbox"/>	24	VRES_QSW4			

- 1). Tick on the resource want to surveillance or want to provide to the network
- 2). Double click on the blank area on the property item **Property** a dropdown list will show:



Private: means one video device (Door station/ SCU/QSW) is actually connect and this video only service to this building, it is private.

Public: means one video device (Door station/ SCU/QSW) is actually connect and this video is service to this building and network, it is Public

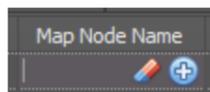
Map: means there isn't a actual video device connected, but use a network's video(as Public video resource from other IPG) to replace this video resource, it is Map.

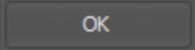
If mapping to a video resource, than a other step need to configure so that identity which network public video resource need to replaced

1.) Tick on the resource need to add and set the property to "Map", then click on the blank area of "Map Node Name"

Enabled	Res ID	Name	Map Node Name	Map Video Resource	Property
<input type="checkbox"/>	1	VRES_DS1			Map
<input type="checkbox"/>	2	VRES_DS2			

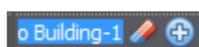
2.) Two icons will show on the box, click on the  icon



3.) A window will pop up with all the available public video resource on the network, select the one need to mapping to and click on  to save

Node ID	IP	Name	Res ID	Res Name	Res Type
1	192.168.243.1	Main Gate1	1	VRES_DS1	2
2	192.168.243.2	Main Gate2	1	VRES_DS1	2

4.) if a wrong public resource be selected, click on the item and click on the  icon to remove the resource



An example about the video resource setting:

A building is actually connected with two door station and a SCU with 2 cameras, one of the door station is public and monitor allowed to use DS3 and DS4 to surveillance common door statin the connect on other IPG in the network. The configuration as below:

Enabled	Res ID	Name	Map Node Name	Map Video Resource	Property
<input checked="" type="checkbox"/>	1	VRES_DS1			Private
<input checked="" type="checkbox"/>	2	VRES_DS2			Public
<input checked="" type="checkbox"/>	3	VRES_DS3	Main Gate1	VRES_DS1	Map
<input checked="" type="checkbox"/>	4	VRES_DS4	Main Gate2	VRES_DS1	Map
<input checked="" type="checkbox"/>	5	VRES_CAM1			Private
<input checked="" type="checkbox"/>	6	VRES_CAM2			Private
<input checked="" type="checkbox"/>	7	VRES_CAM3	Main Gate1	VRES_DS1	Map
<input checked="" type="checkbox"/>	8	VRES_CAM4	Main Gate2	VRES_DS1	Map

For monitors:

If surveillance DS1 and DS2 on the monitor, it will directly connect to the local door station 1 and 2.

If surveillance DS3, it will connect to the IPG which Node name is Main Gate1, and get the video from the first door station connect on that IPG

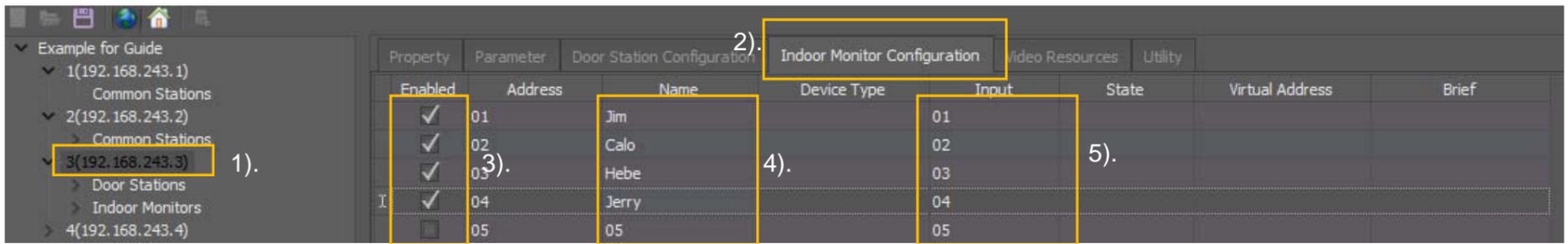
If surveillance DS4, same as DS3

If surveillance CAM1 and CAM2 on the monitor, it will directly connect to the local QSW/SCU's CAM1 or CAM2

If Surveillance CAM3 and CAM4. same as DS3

**Note: if actual video device is exist, please do not mapping it to other network public video resource**

## Building's indoor monitor quantity, name and input.



- 1). Click on the **3(192.168.243.3)** IPG need to configure and make the background be selected.
- 2). Click on the **Indoor Monitor Configuration** tab on the "Setting Window"
- 3). Tick on  the indoor monitor that are connect on this IPG, maximum 32pcs if extent mode is DT\_32, maximum 128psc if is DT\_128
- 4). Enter the name for thoes Door Station
- 5). Enter the Input call codes, the call codes input must be **Unduplicated**, call codes for door stations and other monitors' input connect on this IPG

Note: Click on the dropdown list also call out the setting page  rest of the item not need fill in

## Advance setting-Virtual address

Virtual address provides 2 function:

1. For multi guard unit, provides a option to call multi guard unit Separately
2. For other 2-Wire multi-button door station to call guard unit.(DPC-D250/D221/)

Virtual address will occupy the monitor's address, once the address is setting to virtual address that is not allowed to connect a monitor which address is same with the virtual one. It is mapping to the virtual address

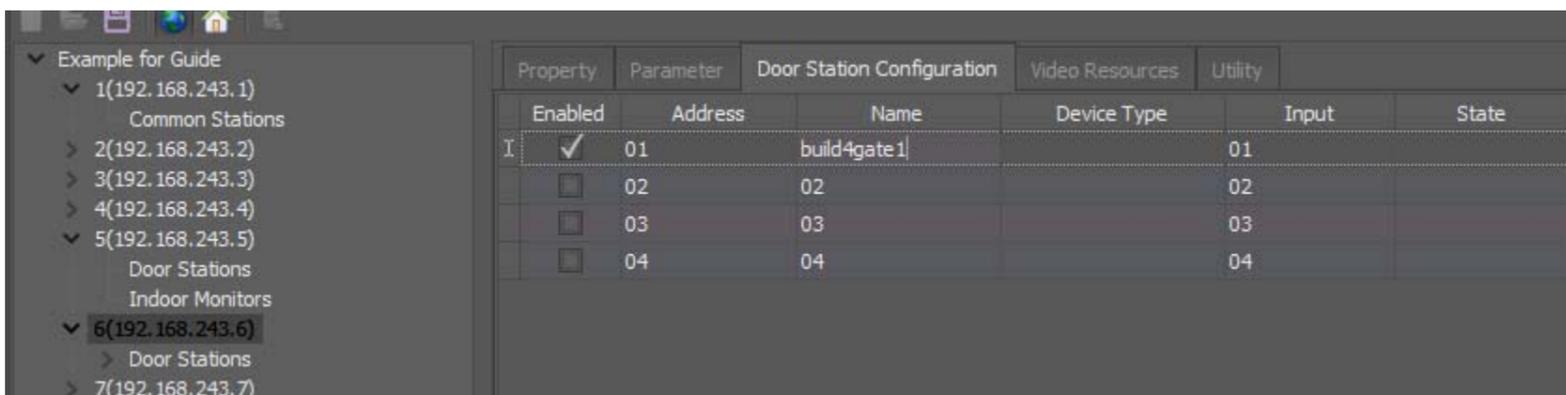


- 1). Tick on  the address need to set to virtual
  - 2). Double click on the blank arear of "Virtual address", a dropdown list will show all Guard unit in the configuration, selecte on of them
- This means if use the intercom function on the monitor to call address 8, it will transfer to the guard unit configure before, calling from the door station to the address 8 will also transfer to the guar unit, that is how to configure a multi-button door station to call guard unit. For DPC-D250 as example, if configure address 4 to the virtual address to guard unit, the button 4 on the DPC-D250 will transfer

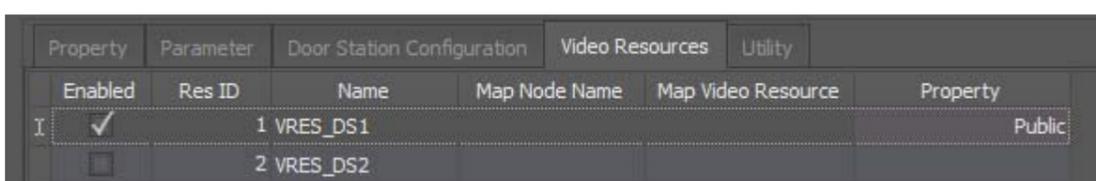
## Door Station

Door station settings is for high rise building, general only one DPC-D218S allowed to connect on this type of IPG, the settings is the same with Common door station.

1. Tick on DS address 1 in the Door station configuration, and enter then name and input for the door station



2. Tick on the first one on the Video Resources and as public



## Indoor monitor

Indoor monitor is to set the quantity name and input on monitors that are connected on this IPG, specially, this applicate is in high-rise building, so the input will be different.

As the example project.

IP NODE 8~10 work as extent monitors for this building.

On the IPG IP NODE8's "Indoor Monitor Configuration"

Property	Parameter	Indoor Monitor Configuration	Video Resources	Utility	
	Enabled	Address	Name	Device Type	Input
	<input checked="" type="checkbox"/>	01	Name1		01
	<input checked="" type="checkbox"/>	02	Name2		02
I	<input checked="" type="checkbox"/>	03	Name3		03

While on the IPG IP NODE9's "Indoor Monitor Configuration"

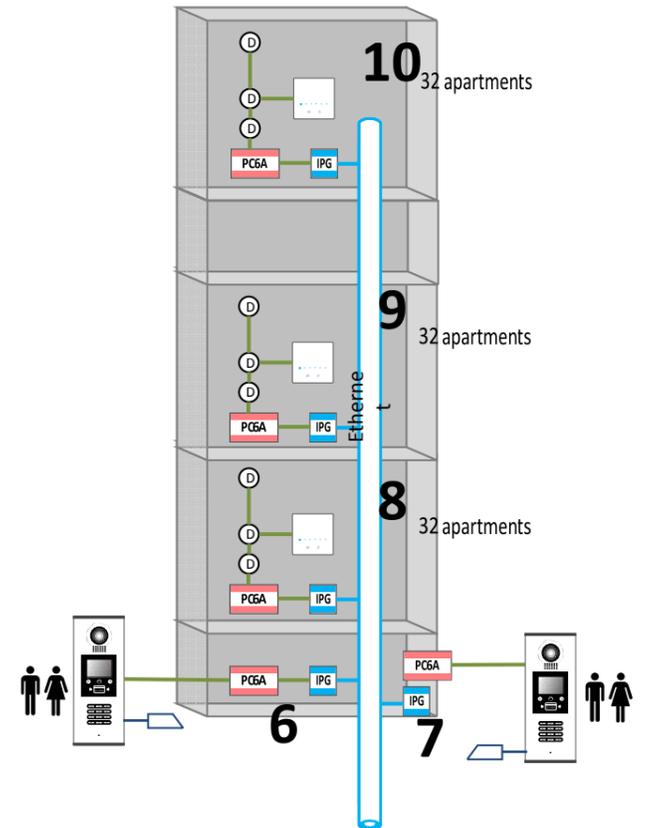
Property	Parameter	Indoor Monitor Configuration	Video Resources	Utility	
	Enabled	Address	Name	Device Type	Input
	<input checked="" type="checkbox"/>	01	Name33		33
	<input checked="" type="checkbox"/>	02	Name34		34
I	<input checked="" type="checkbox"/>	03	Name35		35

The input of the those monitors shall be follow by the IP NODE8's last monitor's input.

So here the first address on the NODE9 set to 33, means dial 33 will call to NODE9's first one

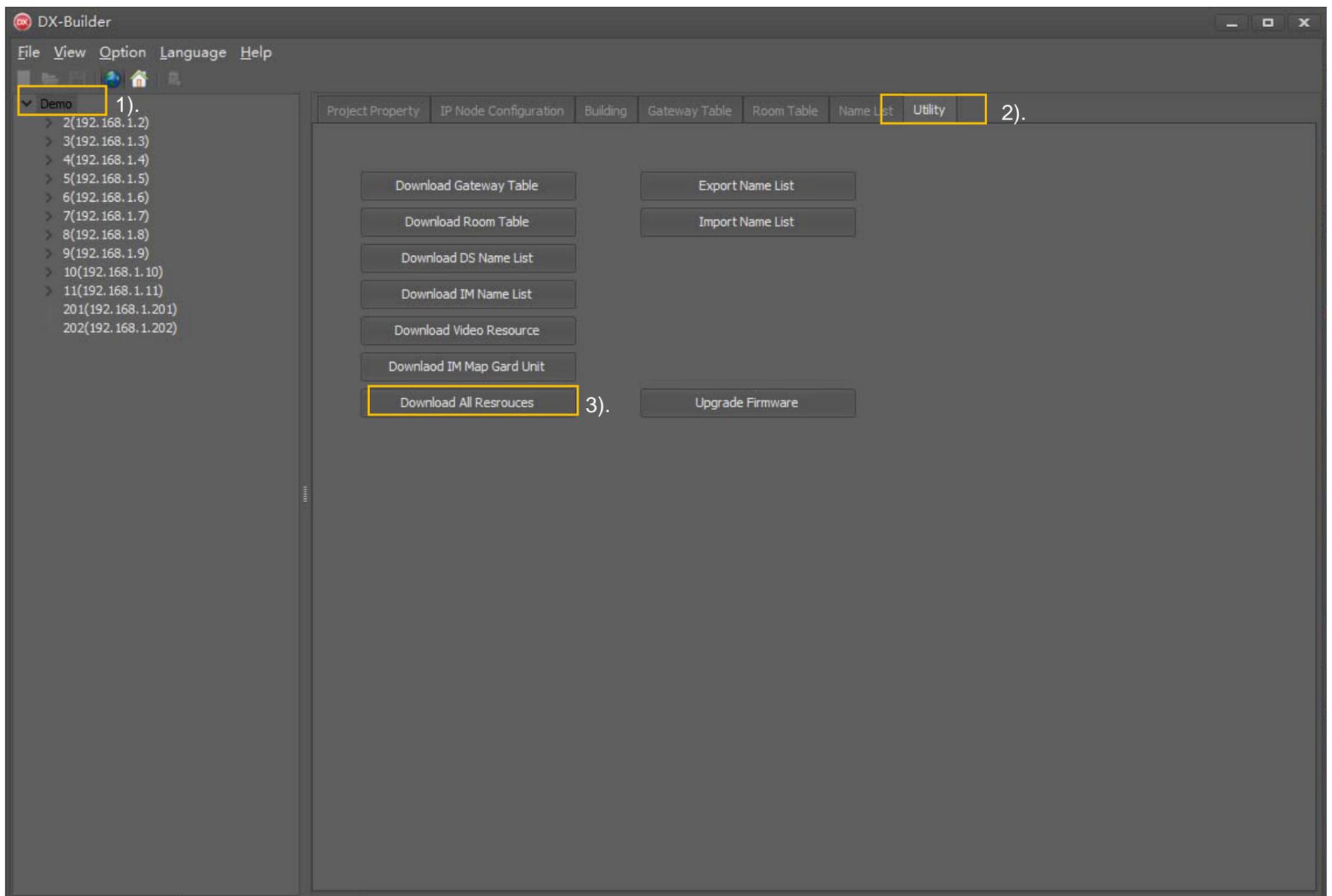
Also for the video resource, because there aren't any actual door station connection this type of IPG, so if monitors need to surveillance this building's door station required to mapping to that door, and before configure, need to set that building's video resource as public, so that the IPG can mapping to that public door statoin

Property	Parameter	Indoor Monitor Configuration	Video Resources	Utility		
	Enabled	Res ID	Name	Map Node Name	Map Video Resource	Property
	<input checked="" type="checkbox"/>	1	VRES_DS1	Door1 for Hi-rise	VRES_DS1	Map
	<input checked="" type="checkbox"/>	2	VRES_DS2	Door2 for Hi-rise	VRES_DS1	Map
	<input type="checkbox"/>	3	VRES_DS3			



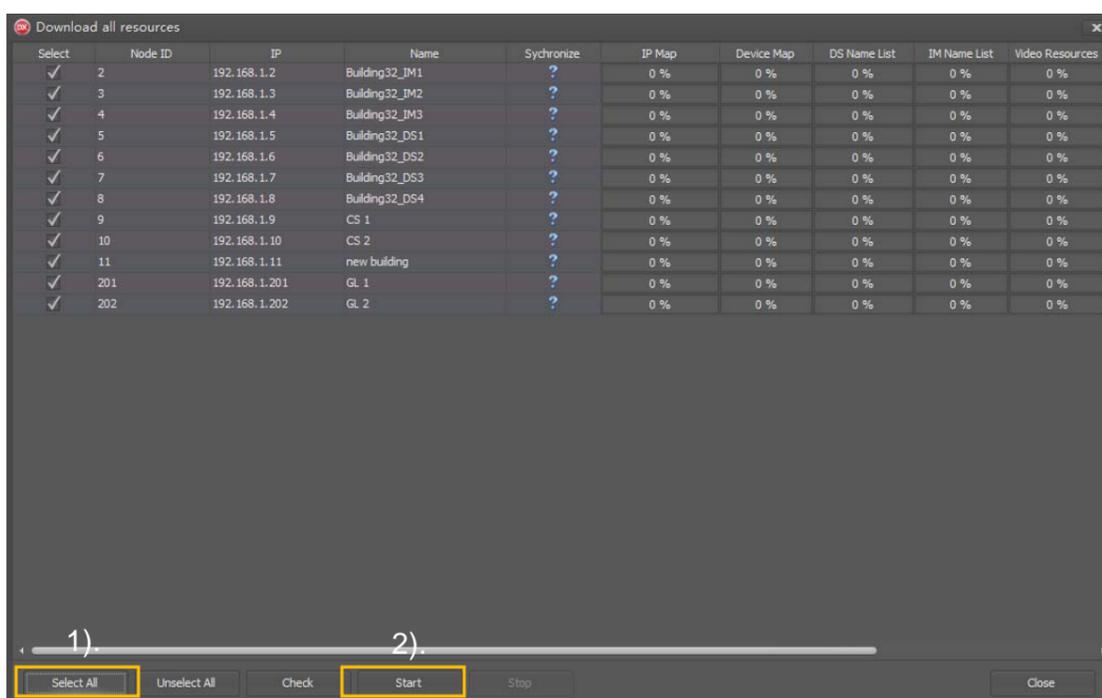
## Download configuration for IP-Devices

After all configure of each IPG and DPM-D246-IP, download all the configuration files is a must.



- 1). Click on the **Demo** main title of this project, and make sure the title is be selected.
- 2). Click on the **Utility** tab on the "Setting Window"
- 3). Click on **Download All Resources** to get into the download window.

A window will pop up, showing all the IP devices configure on the software



- 1). Click on the **Select All** to select all IP device.
- 2). Click on the **Start** to start downloading the configuration files

Below process means the download is successful

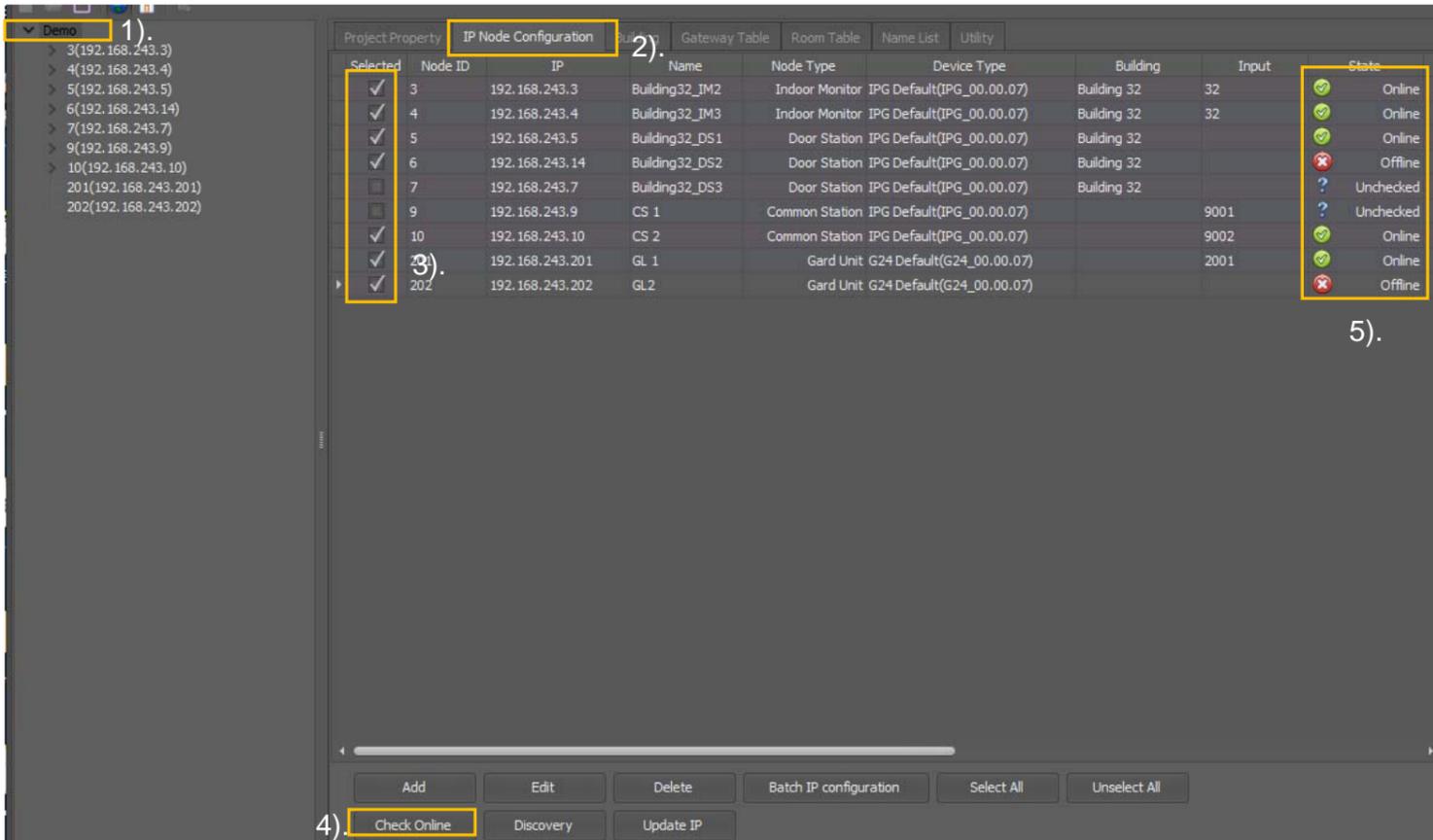
Select	Node ID	IP	Name	Synchronize	IP Map	Device Map	DS Name List
<input checked="" type="checkbox"/>	3	192.168.243.3	Building32_IM2		100 %	100 %	100 %

The process have a chance that download failed, which those failed IP device need to re-download the configuration, tick on those failed device, click on "Start" to download the configuration just for the deleted devices

Select	Node ID	IP	Name	Synchronize	IP Map	Device Map	DS N
<input type="checkbox"/>	3	192.168.243.3	Building32_IM2		100 %	100 %	10
<input type="checkbox"/>	4	192.168.243.4	Building32_IM3		100 %	100 %	10
<input type="checkbox"/>	5	192.168.243.5	Building32_DS1		100 %	100 %	10
<input type="checkbox"/>	6	192.168.243.6	Building32_DS2		100 %	100 %	10
<input type="checkbox"/>	7	192.168.243.7	Building32_DS3		100 %	100 %	10
<input type="checkbox"/>	9	192.168.243.9	CS 1		100 %	100 %	10
<input type="checkbox"/>	10	192.168.243.10	CS 2		100 %	100 %	10
<input checked="" type="checkbox"/>	201	192.168.243.201	GL 1		100 %	0 %	0

DX-Builder with some online check tools to search from the network to see if the devices is online or not.

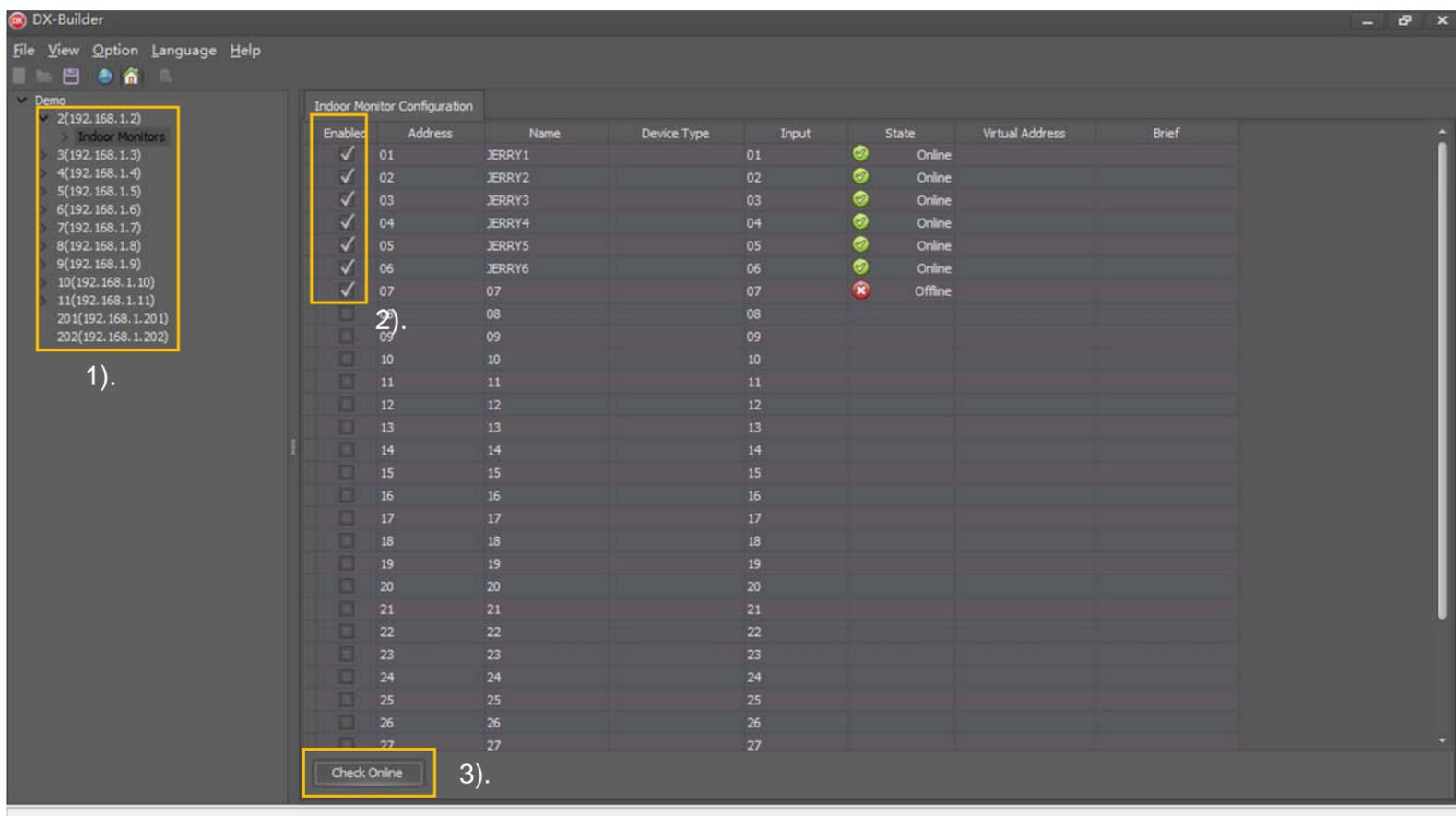
**IP-Device Online check:**



- 1). Click on the **Demo** main title of this project, and make sure the title is be selected.
- 2). Click on the **IP Node Configuration** tab on the "Setting Window".
- 3). Tick on  the devices want to be check or click on **Select All** to select all devices.
- 4). Click on the **Check Online** button to start checking.
- 5). Result will show on that line.

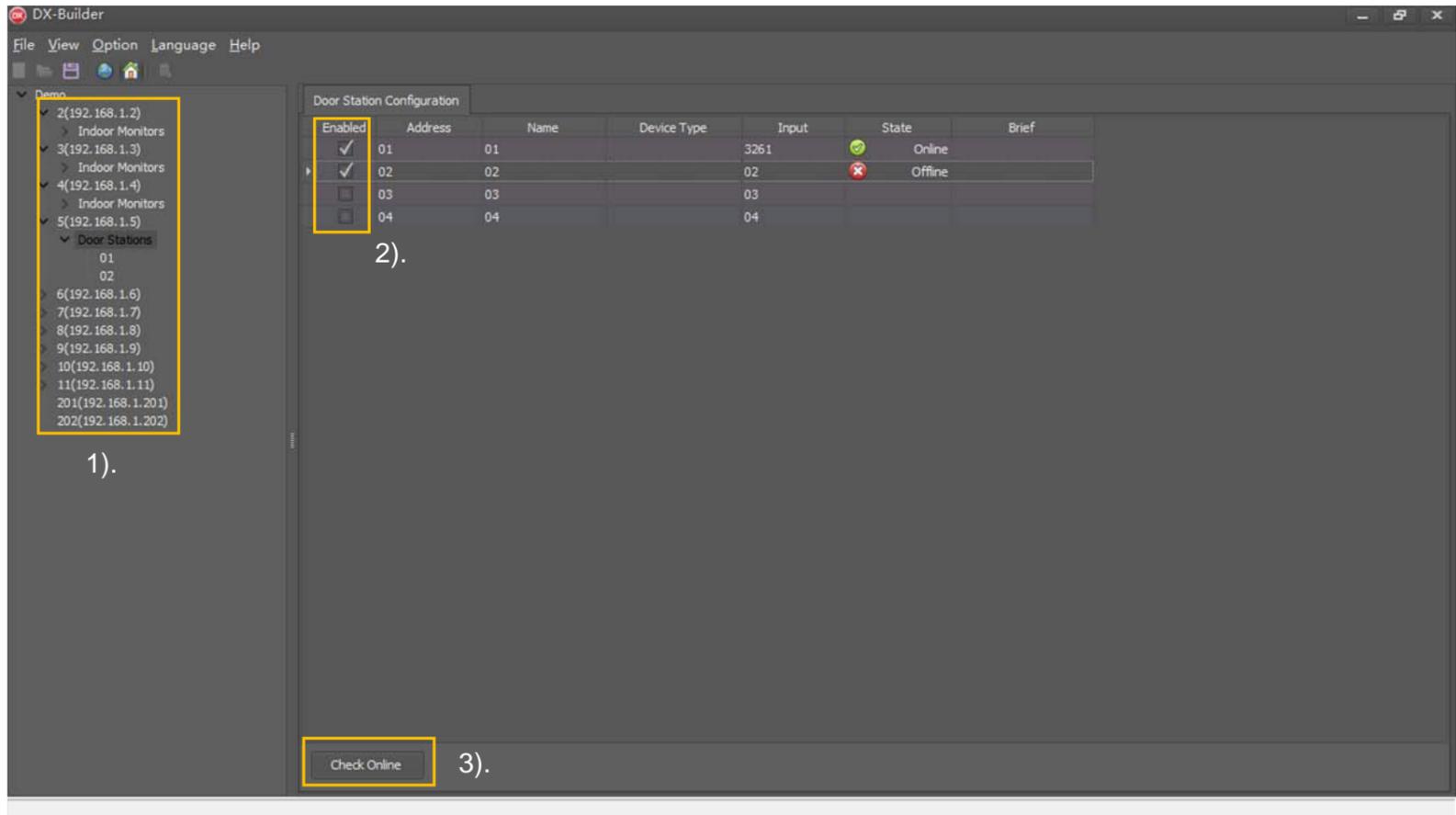
- Offline Means the device is offline or not connected
- Online Means the device is online
- Unchecked Means the device is not be selected to check

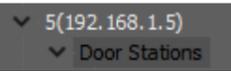
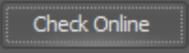
**Monitor Online check:**



- 1). Select on **2(192.168.1.2) > Indoor Monitors** the sub item need to be check on the target IPG
- 2). Tick on the units want to be check
- 3). Click on **Check Online** icon to check the devices

## Monitor Online check:



- 1). Select on  the sub item need to be check on the target IPG
- 2). Tick on the units want to be check
- 3). Click on  icon to check the devices