Table Content

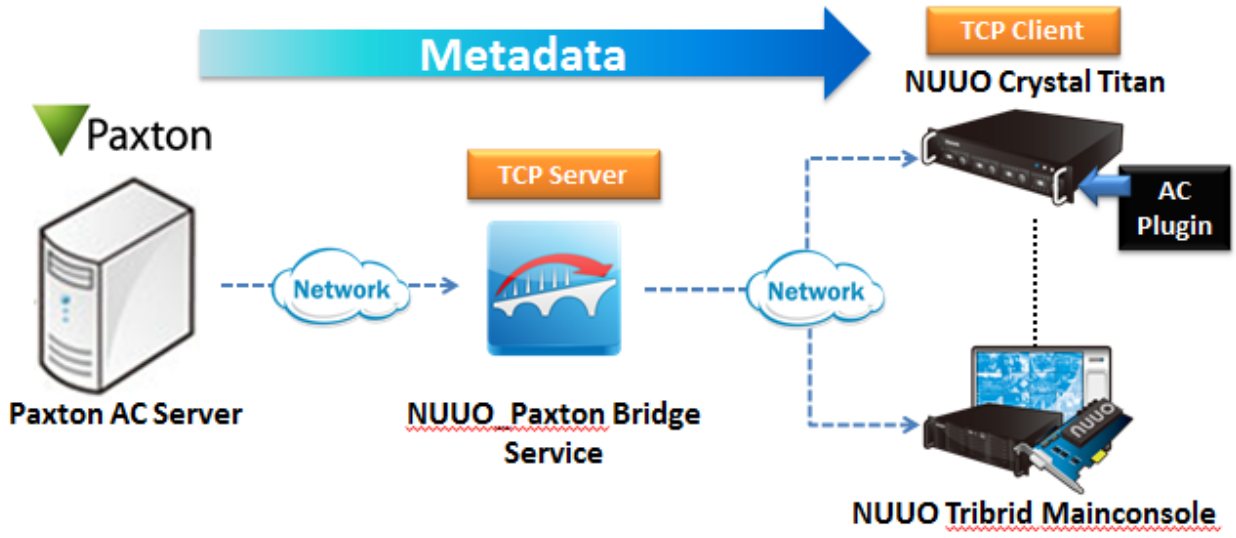
I. Intruction

Paxton Access Control System has been integrated with *NUUO Crystal Titan and MainConsole* (NVR IP+, Hybrid NDVR, DVR card), coporating to provide an interface between the two platforms, to provide access control metadata and events for NUUO solutions.
NUUO – Paxton interface allows access device information and events from *Paxton* server to be accessed within the *NUUO* Software.

II. Product Info

Item	Version	Compatible Server
NUUO Bridge_TCP Server_Paxton	V1.0	- Paxton Net2 v5 - NUUO Mainconsole v5.0.12 and above - NUUO Crystal Titan v2.0 and above
ACTCPClient_Crystal2.0	V2.1.0	- Paxton Net2 v5 - NUUO Crystal Titan v2.0 and above

III. System Architecture



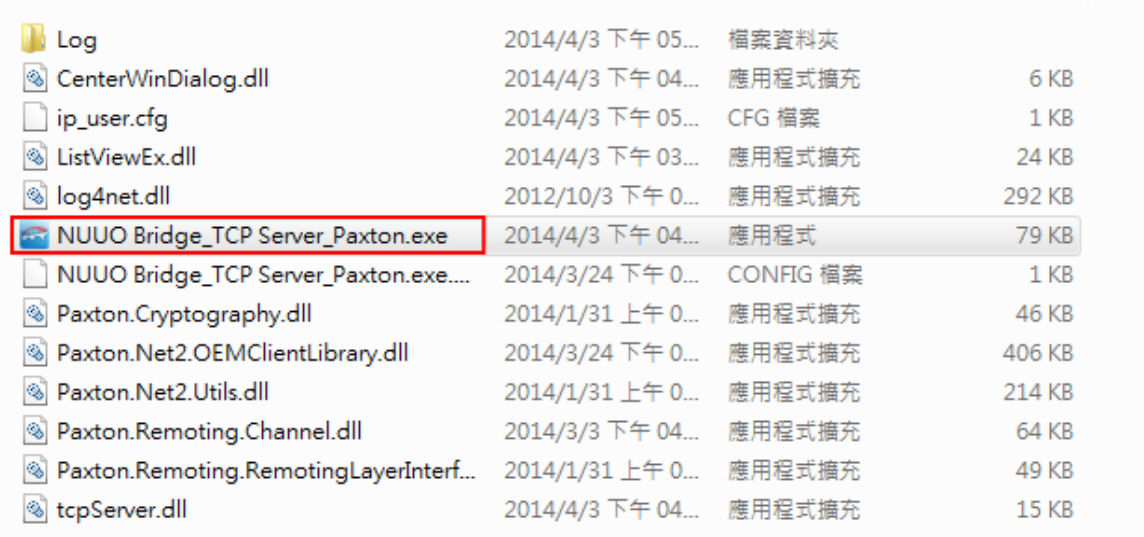
IV. NUUO Bridge_TCP Server_Paxton Setup

Step 1: Download **NUUO Bridge_TCP Server_Paxton v1.0 .zip** from NUUO website and unzip the file.

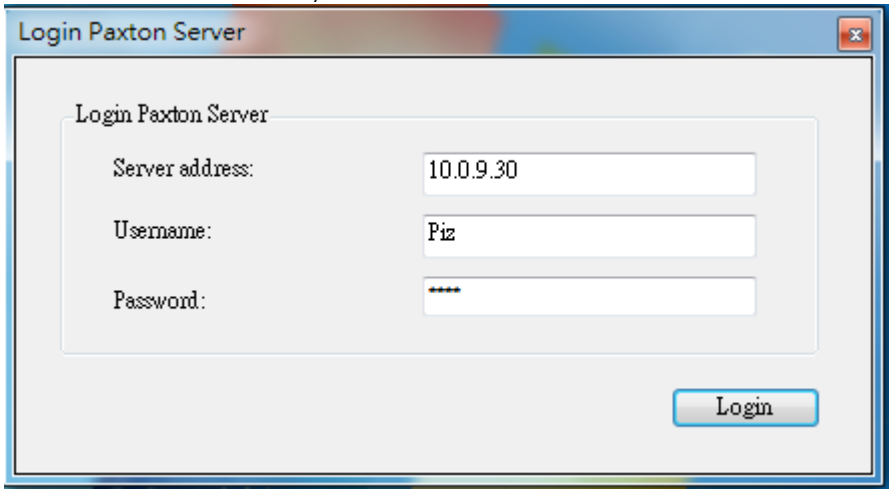
Step 2: Install NUUO Bridge Software in any Windows based PC which could be NUUO Mainconsole server, Paxton Net2 server or a separated server.

Note:
(1) Windows based PC could be 32bits and 64bits
(2) Each Bridge only can connect with single Paxton Server.
(3) Only ONE Bridge can run on single server
*(4) For different user scenarios, please refer to Chapter VI "**Installation Scenarios**"*

Step 3: Launch NUUO Bridge_TCP Server_Paxton .exe



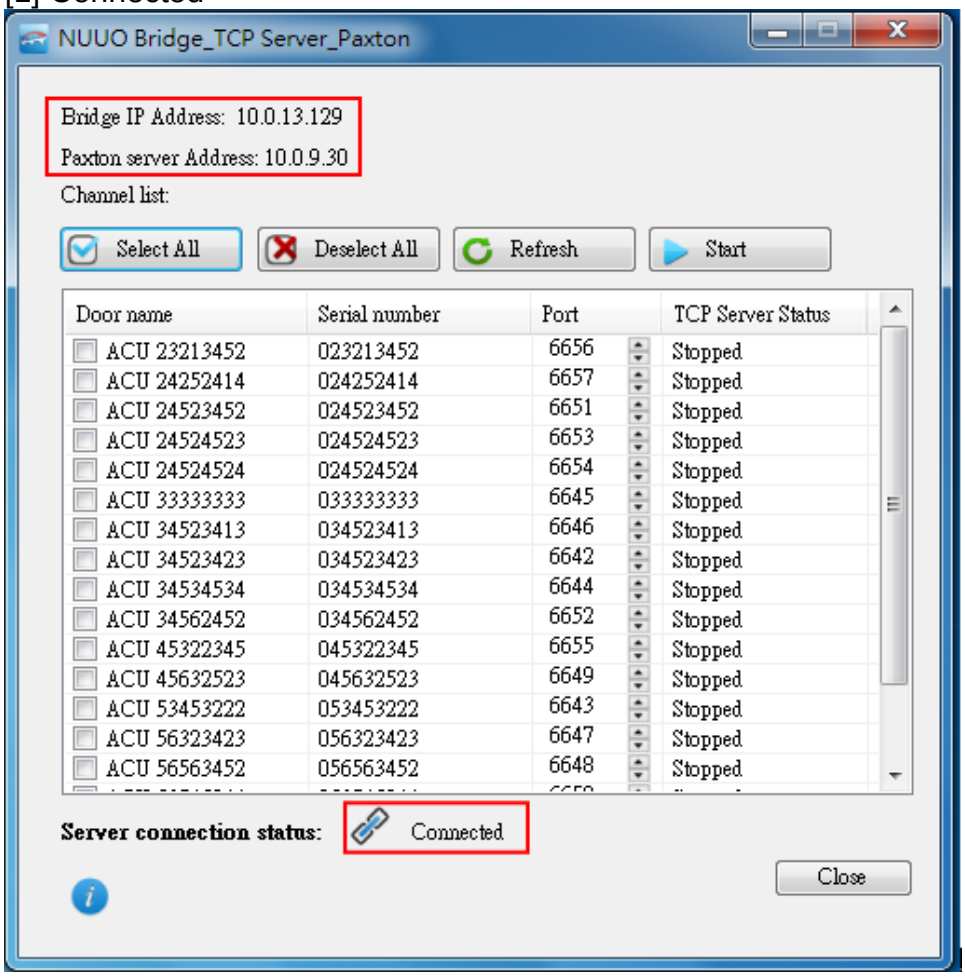
Step 4: Login Paxton Server.
Insert Server address, Username and Password of Paxton Server



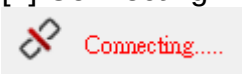
***Note:** If NUUO Bridge is installed with Paxton Server, user may insert the Server address as "127.0.0.1" or "localhost".*

Step 5: Check the "**Bridge IP Address**", "**Paxton server Address**" and "**Server connection status**" between NUUO Bridge and Paxton Net2 server.

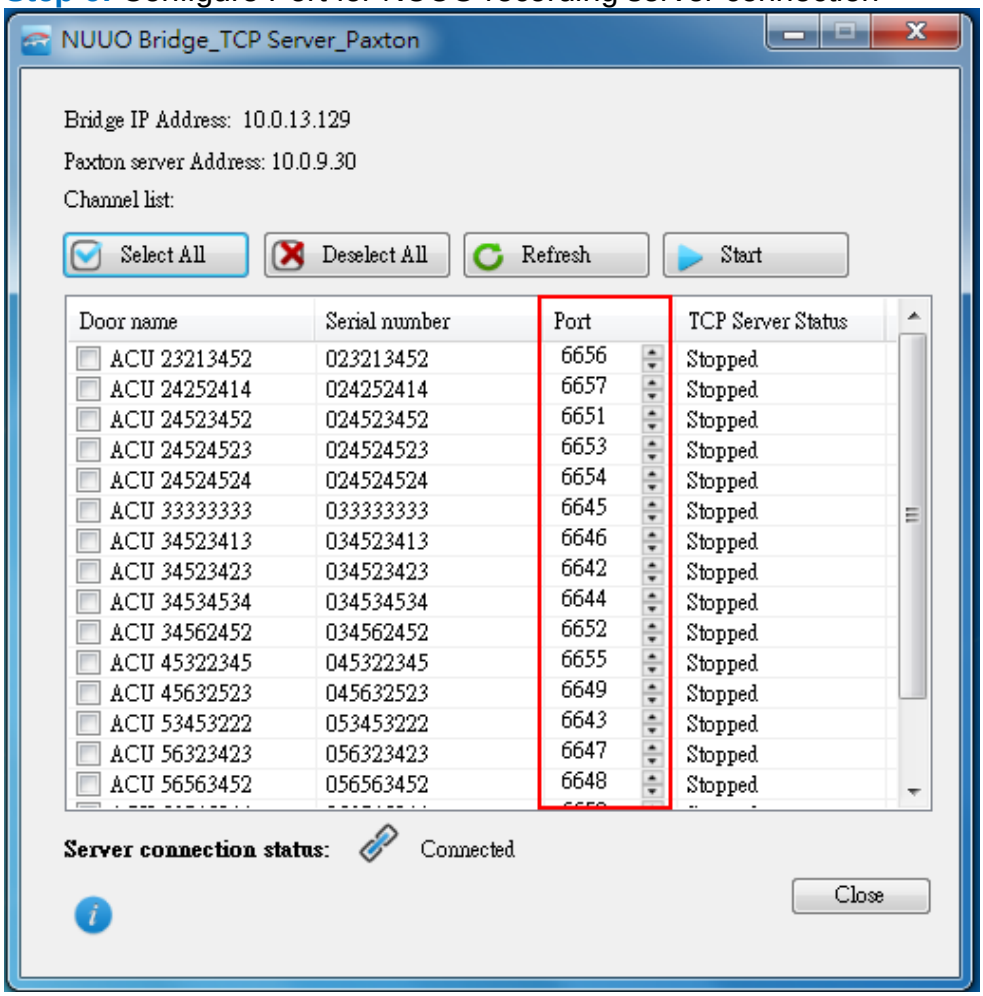
[1] Connected



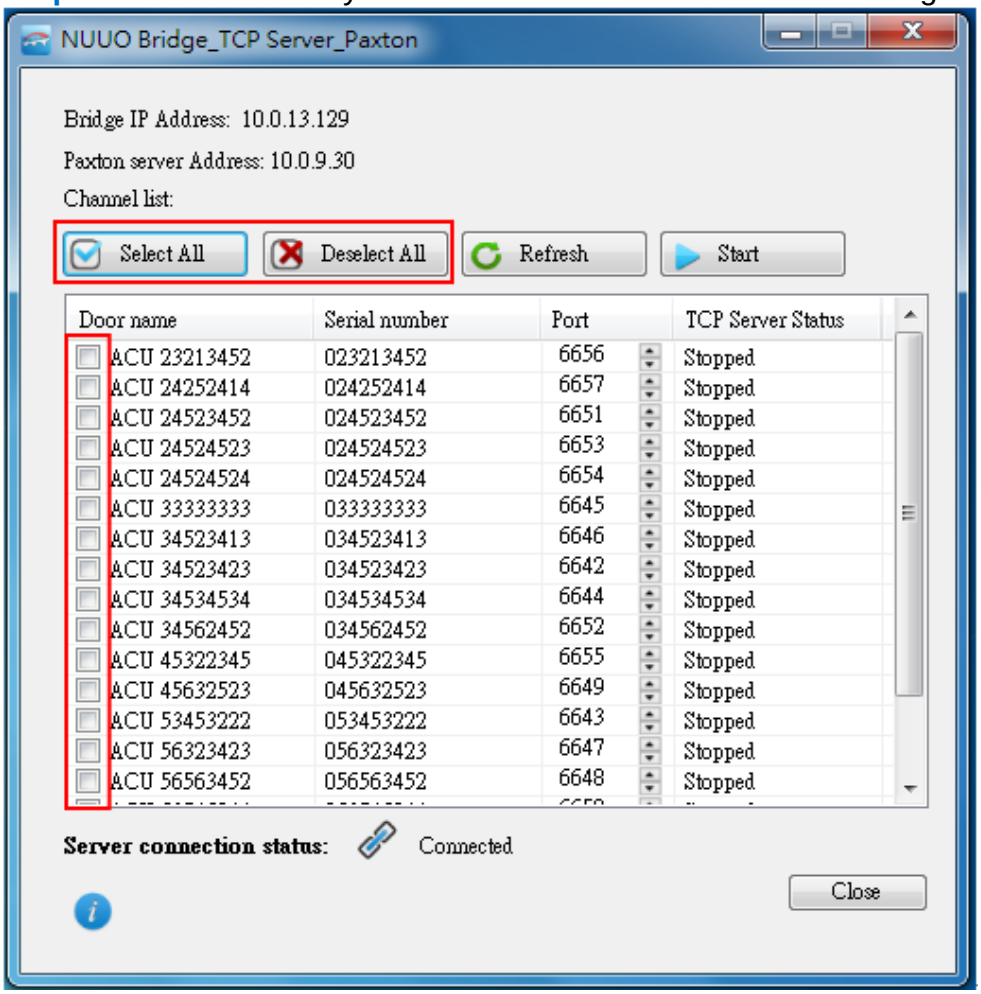
[2] Connecting



Step 6: Configure Port for NUUO recording server connection

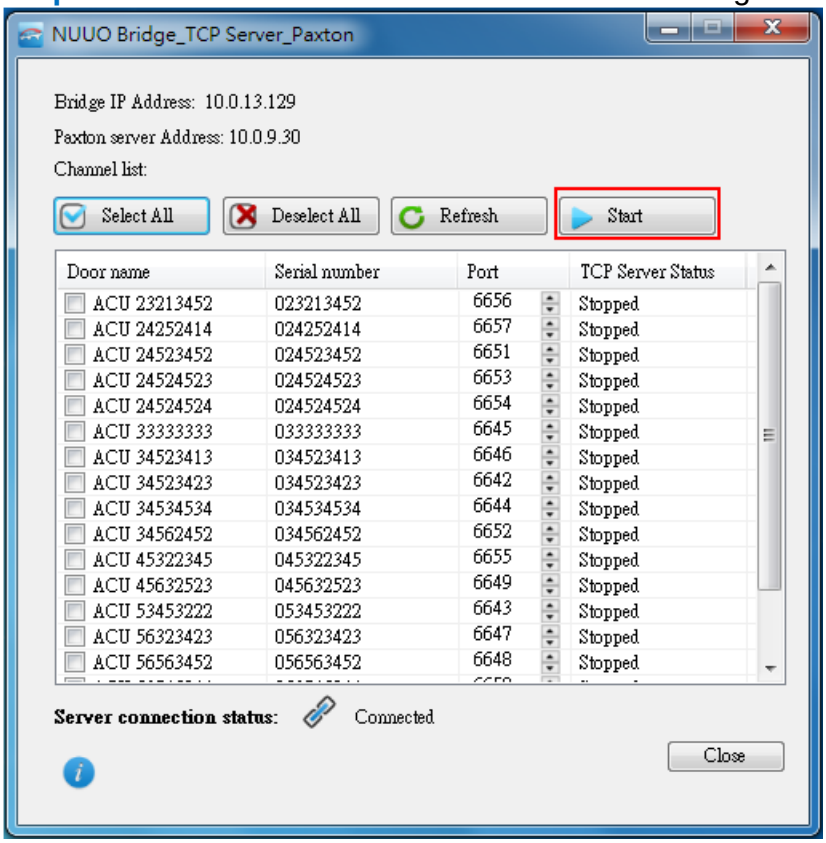


Step 7: Select the door you want to connect with NUUO recording server

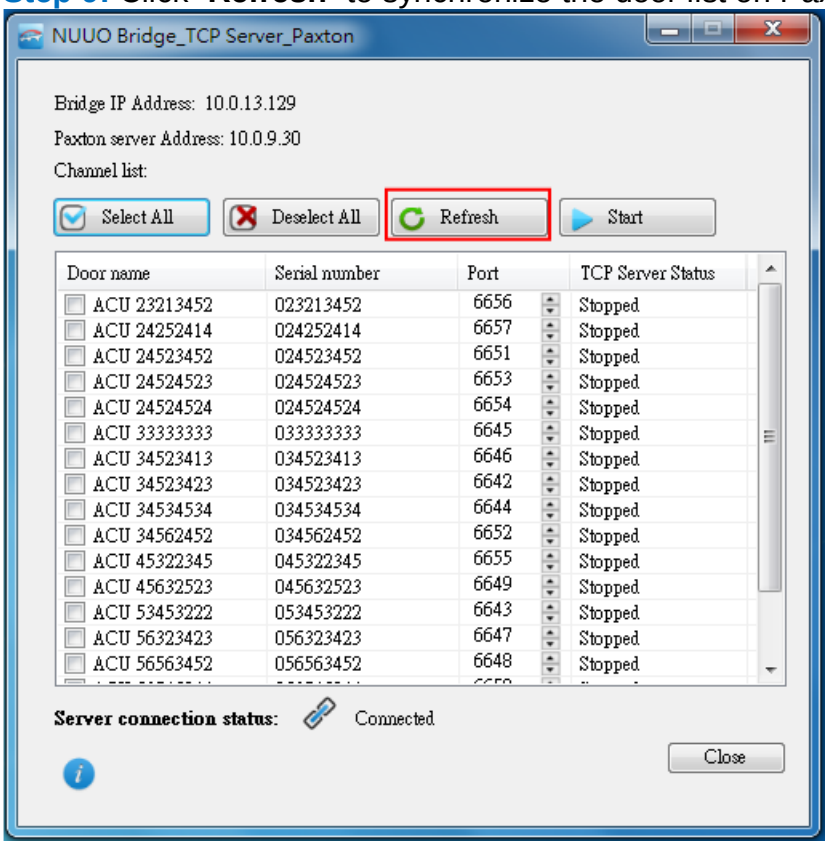


Note: *If none of the door is selected, user cannot run the service.*

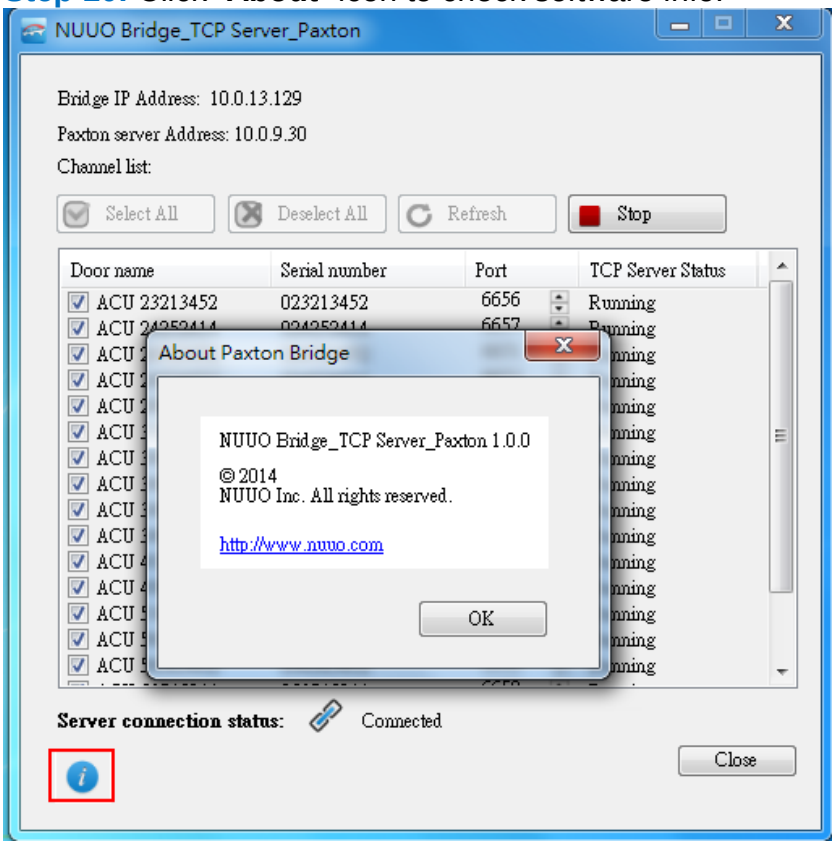
Step 8: Click "**Start**" to run the metadata transmitting service



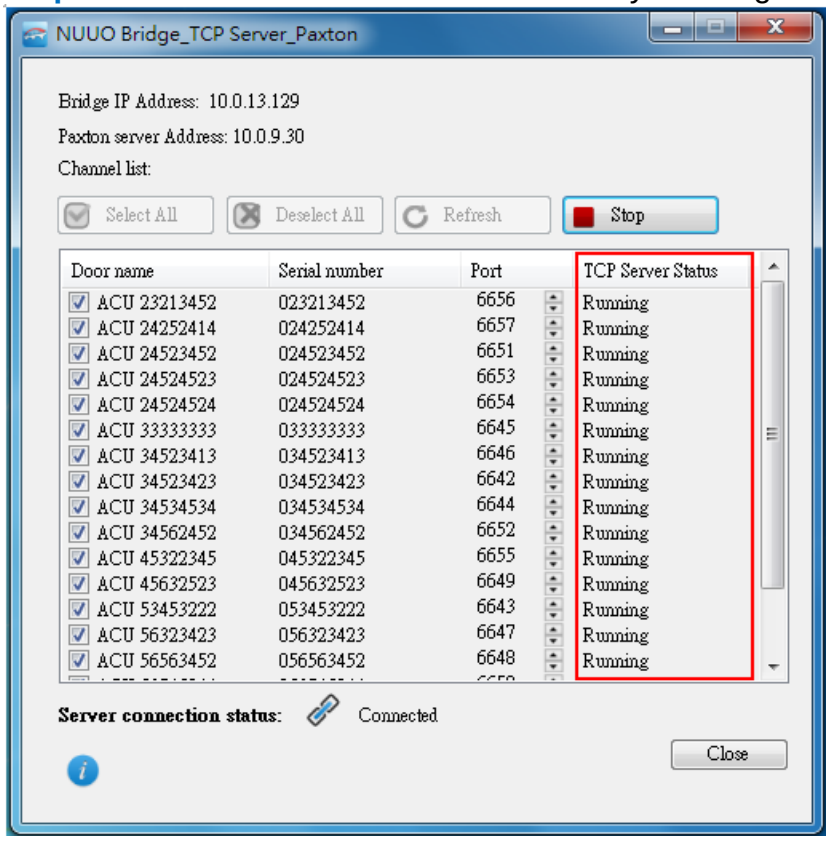
Step 9: Click "**Refresh**" to synchronize the door list on Paxton Server. (Optional)



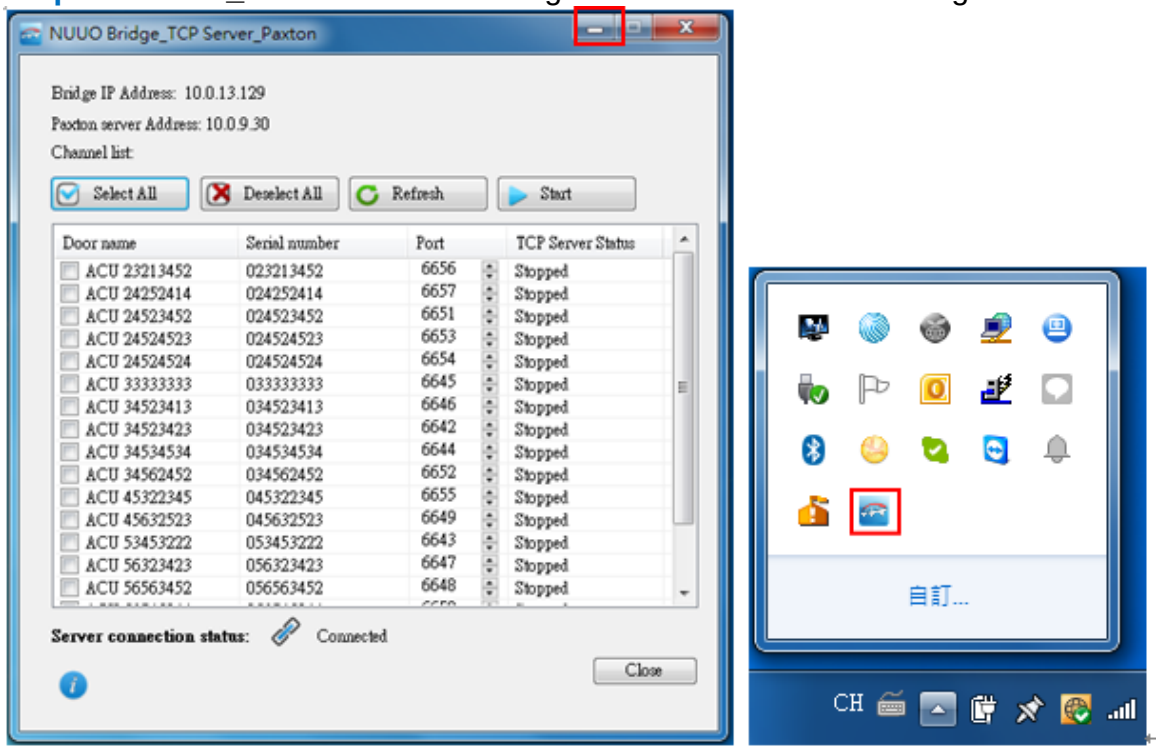
Step 10: Click "**About**" icon to check software info.



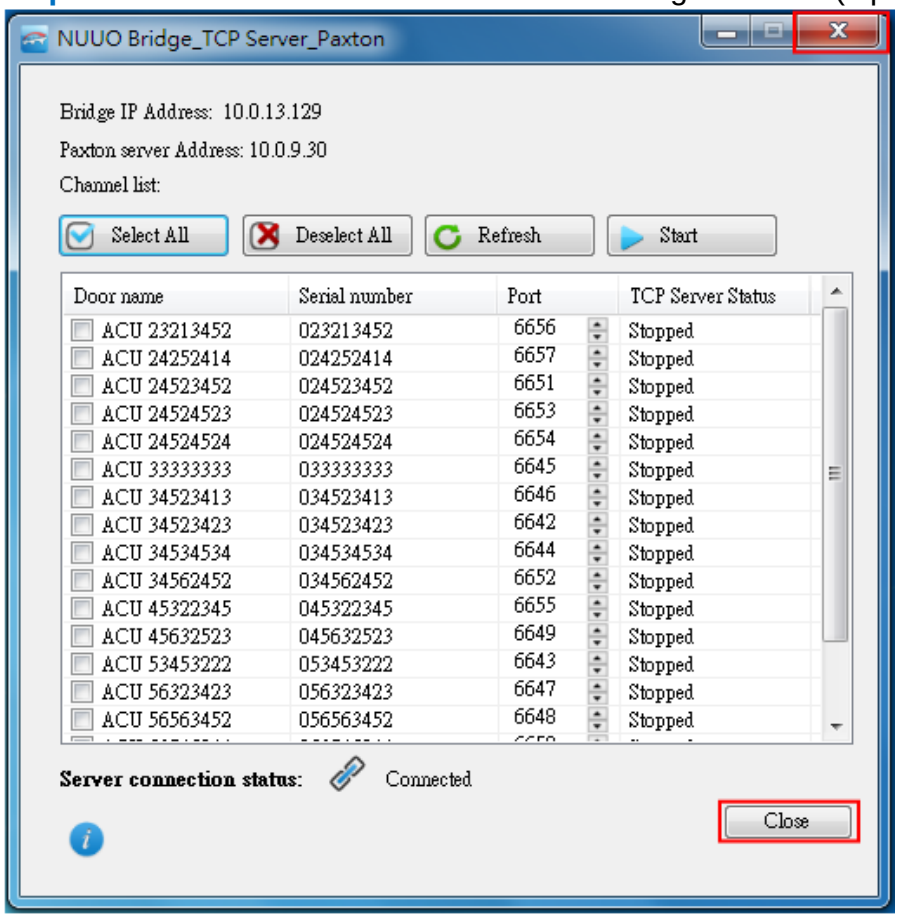
Step 11: Overview the status of each door by showing "**Stopped**" or "**Running**"



Step 12: Click "_" to minimize the Bridge service window to Running Service



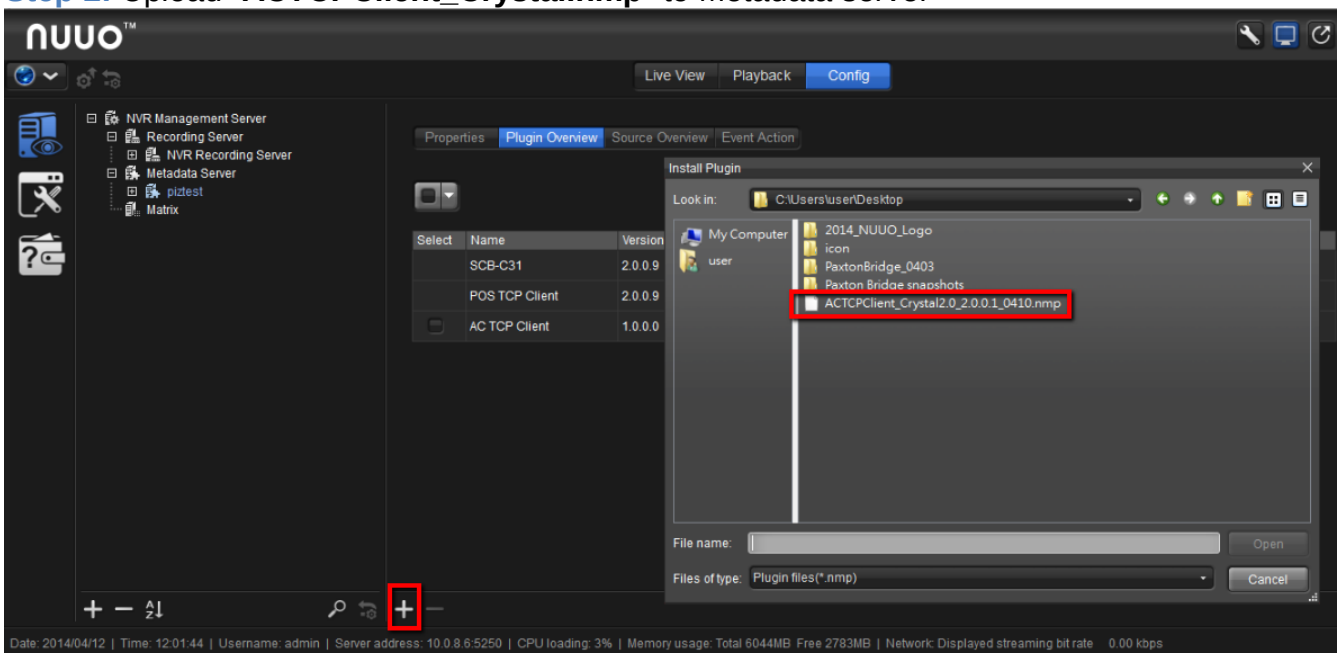
Step 13: Click "**Close**" or "**X**" to turn off the Bridge service. (Optional)



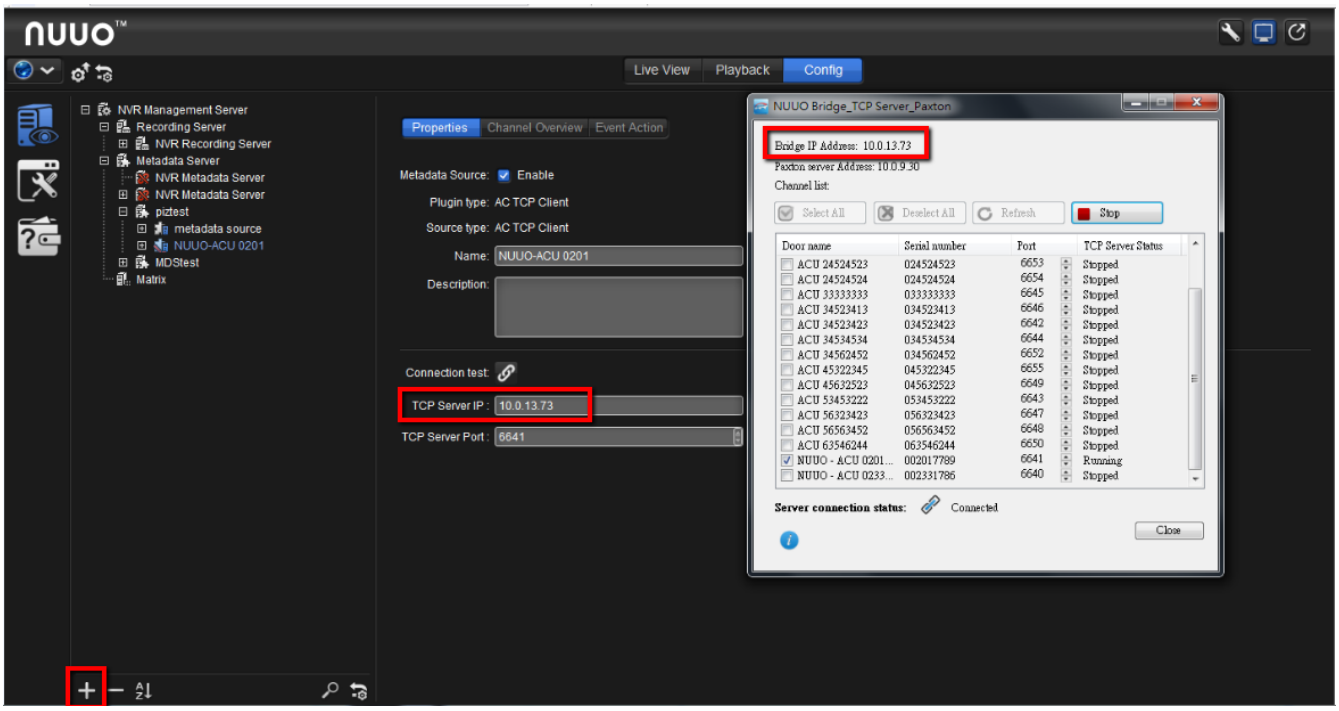
V. NUUO Server Configuration

1. Crystal Titan

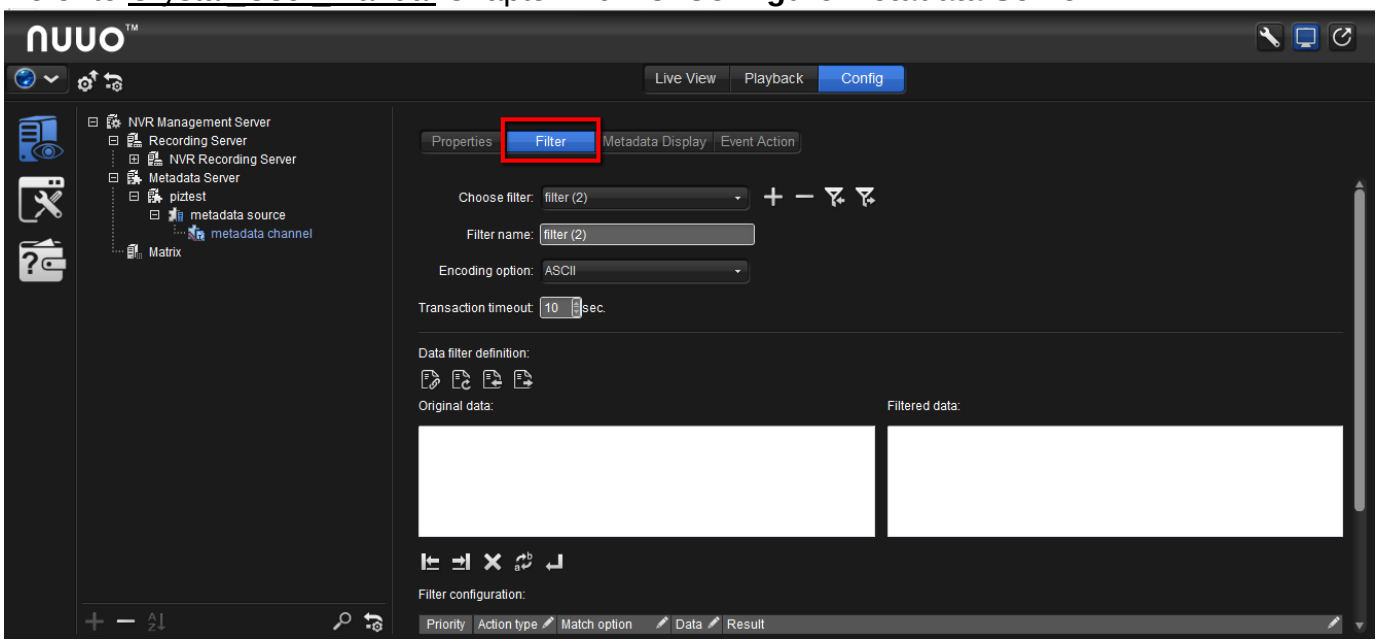
Step 1: Download **ACTCPClient_Crystal2.0 .nmp** from NUUO website.
Step 2: Upload "**ACTCPClient_Crystal.nmp**" to Metadata server



Step 3: Run "**NUUO Bridge_AC_Paxton .exe**" and add Metadata Source.
Metadata source = Paxton door
TCP Server IP = Bridge IP Address
TCP Server Port = Door Port

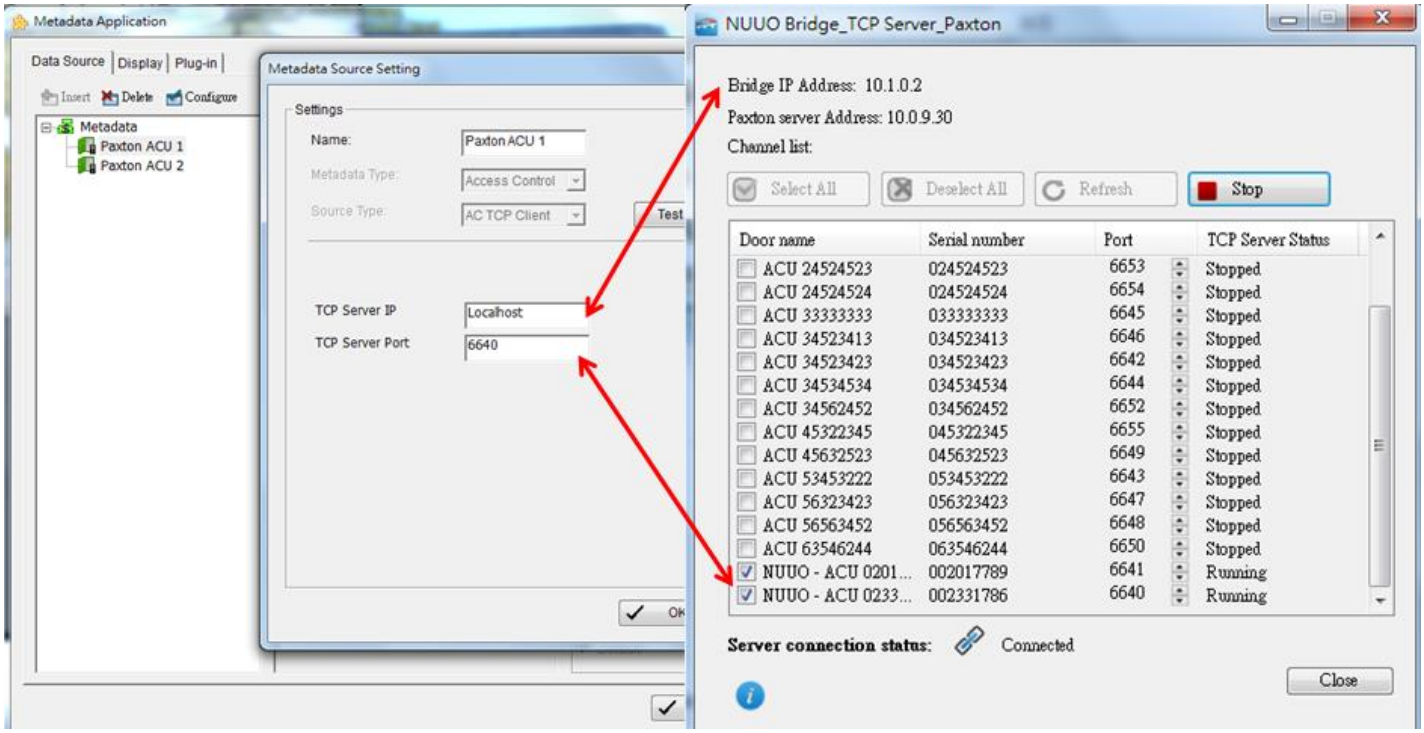


Step 4: Configure filter, display format and event/action
Refer to Crystal_User_Manual Chapter "**10.1.3. Configure Metadata Server"**.

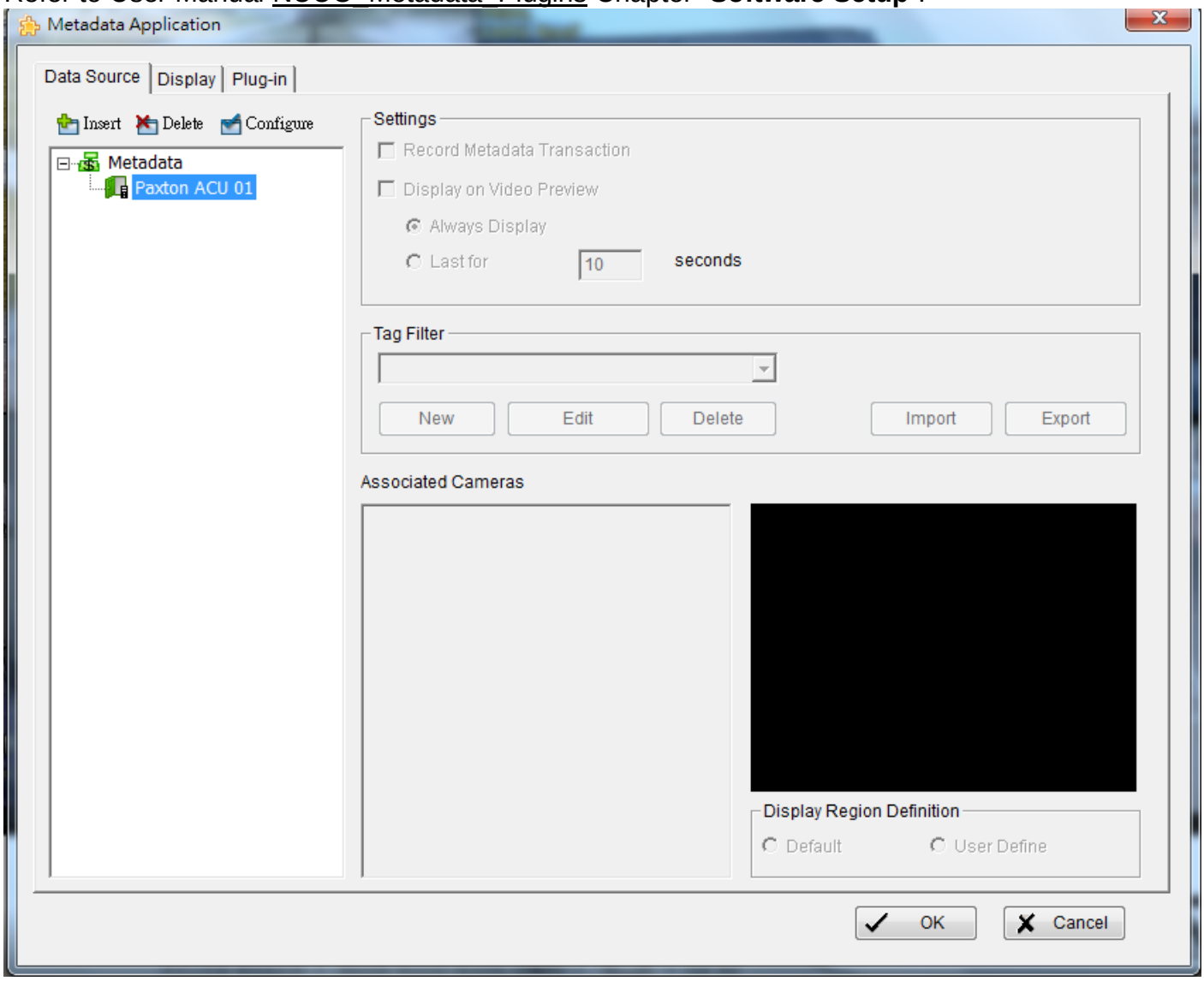


2. Mainconsole

Step 1: Run "**NUUO Bridge_AC_Paxton .exe**" and add Metadata Application.
Metadata Application = Paxton door
TCP Server IP = Bridge IP Address
TCP Server Port = Door Port

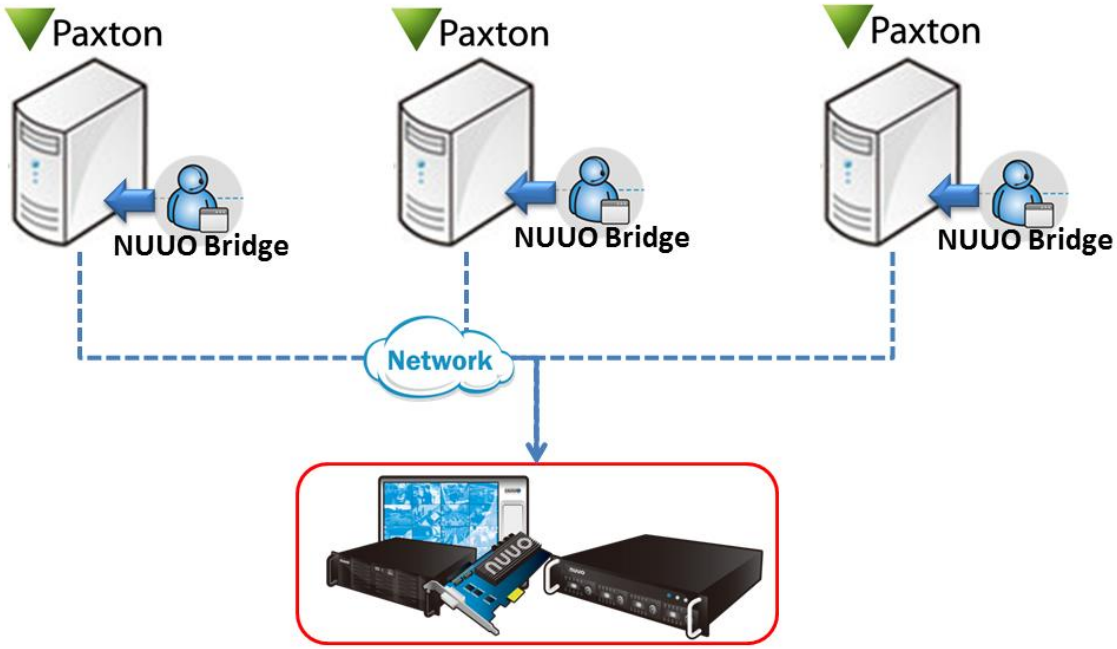


Step 2: Configure filter, display format and event/action
Refer to User Manual NUUO_Metadata_Plugins Chapter "**Software Setup**".

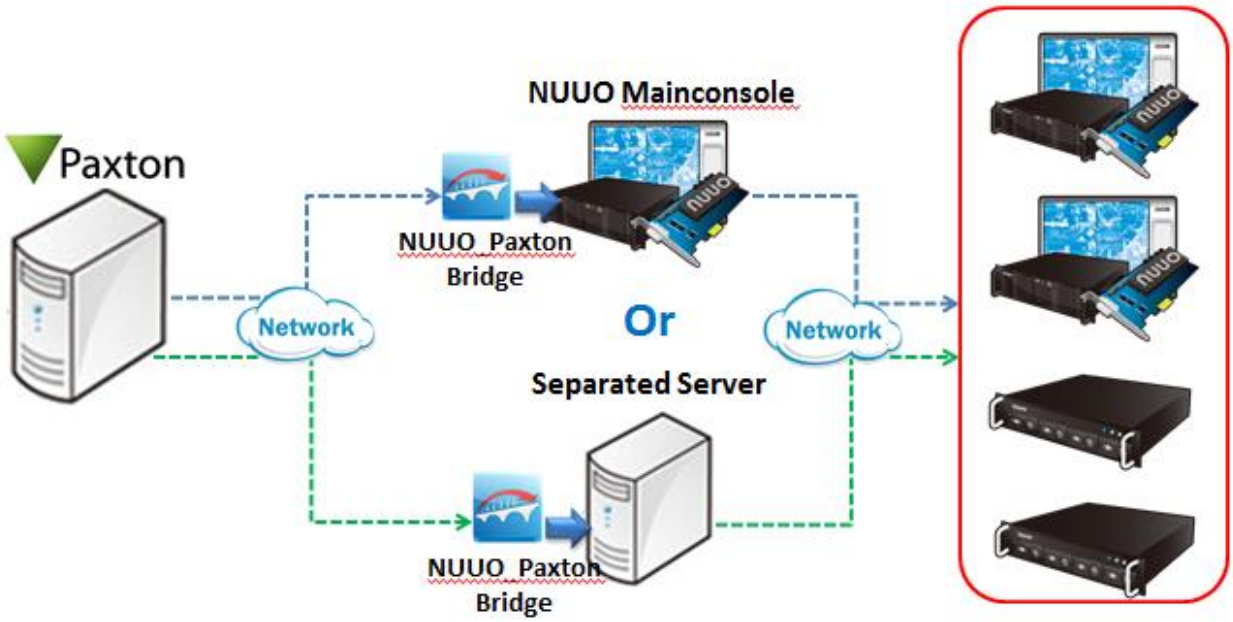


VI. Installation Scenarios

1. If one NUUO Recording Server would receive events from multiple Paxton Servers, NUUO Bridge must be installed on Paxton Server.



2. If multiple NUUO Recording Servers would receive events from single Paxton Server, NUUO Bridge can be installed on one of NUUO Servers or a separated server.



VII. Event Support List

1. Display information on NUUO Interface

Display Information	
Item	**Description**
Door ID	ID or address of the door
Card ID	ID or number of the card
User Name	Name of employee or cardholder
User ID	ID or number of employee or cardholder
Event Date Time	The data / time when recorder receives card information and events
Event ID	ID or number of access control event. Defined by access control server
Event Type Description	Including description of event type and event subtype. Ex: AccessDenied-CardOnly

2. Supported Paxton events

Event Types		
Type	**Subtype**	**Description**
Access control	alarm acknowledged	Door alarm has been acknowledged
Access control	door alarm	Door alarm has been issued
Access control	tampering	A device or a door has been tampered with
Access control	Unit connected	ACU online
Access control	Unit lost	ACU not responding
Access Denied	Alarm Still armed	Alarm from access control server is not relieved yet
Access denied - invalid code	Access Level not valid	Code is configured according to different access level. Ex: Admin - 0909
Access denied - ANPR	Vehicle registration not recognized	License plate or car number recognition by camera or access control system is not valid
Access Denied - Lockdown in Progress	Individual permissions not valid	
Access Denied - Invalid Token	Invalid Access	Card or pass is invalid
Access denied - invalid PIN	Token Details not found	PIN code of card or pass is invalid
Access Denied – Token not valid	Anti-passback (Logical)	Anti-passback deters users from tailgating each other and requires both IN and OUT readers at each area boundary. The system must see a user card leave an area before allowing access in the opposite direction.

Access Denied – Token not valid	Anti-passback (Timed)	Access control system doesn't allow more than one token triggering during certain period
Access Denied – Token not valid	Anti-passback (Logical + Timed)	Combination of logical and timed for Anti-passback
Access Denied – Token not valid	Anti-passback (Lost contact with server)	When server disconnects, any token is not allowed
Access Denied – Token not valid	Not active	
Access Denied – Token not valid	Token reported lost	
Access permitted	Temporary access assigned	
Access permitted - Token only	Anti-passback (Logical)	Users entry with correct token, meanwhile match anti-passback logical rule
Access permitted - token + PIN	Anti-passback (Timed)	Users entry with correct token and PIN, meanwhile match anti-passback timed rule
Access permitted - token + code	Anti-passback (Logical + Timed)	Users entry with correct token and code, meanwhile match anti-passback logical and timed rule
Access permitted - PIN only	Anti-passback (Lost contact with server)	Users entry with correct PIN, meanwhile match anti-passback lost contact with server rule
Access permitted - code only	No access made	Users entry with correct code
Access permitted - ANPR		License plate or car number recognition by camera or access control system is valid
Door opened	With network instruction	
Door opened	With timezone	Door allows to be opened in user defined time zone
Door opened	With exit button	Manually press exit button to open the door
Door closed	With network instruction	
Door closed	With timezone	Door allows to be closed in user defined time zone
Door forced		Door is closed or opened by external force