

Valerus-ViconNet Gateway



XX285-45-00



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General

The Valerus-ViconNet Gateway is a module designed to provide a simple migration path to allow bridging existing ViconNet systems to a Valerus VMS. This user guide explains the steps required to install and configure the Valerus-ViconNet Gateway solution.

Important Guidelines

Before starting the installation, make sure that the following guidelines are met:

- 1) All ViconNet Systems that are currently installed at the site must be running version 5.6d or above, including the Nucleus computer.
- 2) Valerus VMS version 18 should be installed on the Application Server and all NVRs.
- 3) The Gateway software itself can be installed in several ways, depending on the size and architecture of the system and the number of channels that will be added to it:
 - i. Gateway software can be installed on the same computer running as a dedicated Valerus Application Server to support *up to 75* ViconNet video channels. The Gateway cannot run on the same computer running as a Valerus NVR.
 - ii. To support *more than 75* ViconNet video channels, a dedicated computer to run as the Gateway must be used.

Note: In both cases, the Gateway computer must run on a minimum of 1 Gbps network. Review the product datasheet for hardware requirements.

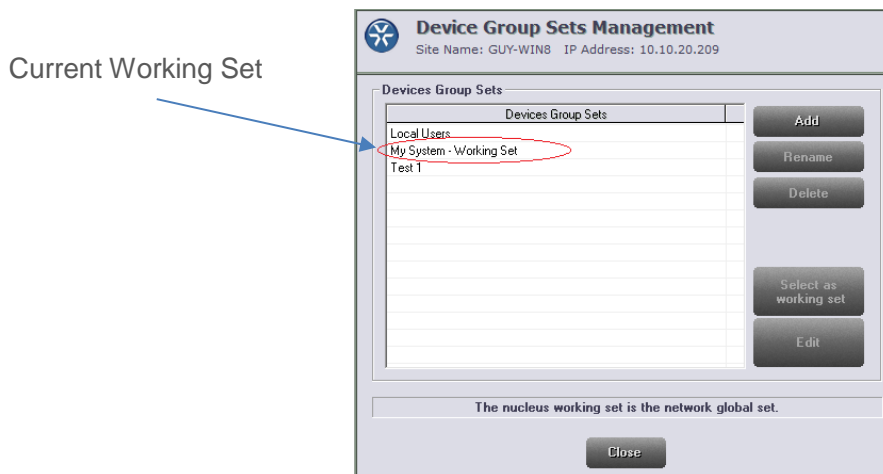
- 4) The Gateway software must not run on a server running the Valerus NVR software.
- 5) The server running the Gateway software should not be used for video display, to allow it optimal resource allocation.
- 6) Multiple Gateways can be used in a single Valerus system. Each Gateway requires a license, one license per Gateway.
- 7) Make sure your system license (shown in Configuration-System-Licensing) includes the required number of Gateway licenses; if not, purchase any missing licenses.
- 8) Each Gateway can support up to 500 ViconNet cameras to be added to it. If the ViconNet system has more than 500 cameras that need to be migrated to Valerus, multiple Gateways can be added as needed and the cameras can be distributed among them.

Installation

Existing ViconNet System

The ViconNet Gateway uses the device groups set in the Nucleus to connect to existing ViconNet systems and select which cameras to bridge to Valerus. A group must be created that contains all the selected cameras that are to be connected. If multiple Gateways are used, multiple groups can be created (all under the same working group set), each consisting of the cameras for a specific server. If groups already exist, they can be used as long as they list all the cameras needed.

- 1) Go to your ViconNet Nucleus and enter the main *System Setting* screen.
- 2) Select the *Device Group Sets* setup option.
- 3) Under the Device Group Sets find the name of the group set that is the *Working Set*. If there is no such group, assign one as a working set by clicking the button.
- 4) Select the Working Set Group Set and click the Edit button.



- 5) If there are any existing groups that already include the cameras to be added to the ViconNet Gateway, they can be used. If a different set of cameras is to be added to the ViconNet Gateway, create a new group (in this example, Valerus) and drag the relevant cameras to the group to add them. When complete, click Save & Exit (remember the group name to use in the Gateway Configuration).

Group for Valerus Gateway

Site Name: GUY-WIN8 IP Address: 10.10.20.209

Group Set:

- My System
 - Building A
 - Building B
 - Valerus

Buttons: Add new group, Rename group, Delete group

Devices

Search

ViconNet

- IQD51W 10.10.20.147
- IQD63W 10.10.20.144
- IQM65NA 10.10.20.170
- IQR52NR 10.10.20.208
- IQR52NR 10.10.20.211
- IQR52NR 10.10.20.215
- Simulator
- V922D-N39-IP 10.10.20.203

Devices update

Start devices update

Valerus

Transmitter	Device Name	2nd ID
IQM65NA 10.10.20.170	IQEYE3E0798	
IQM65NA 10.10.20.170	Mic - IQEYE3E0798	
IQR52NR 10.10.20.208	IQEYE3D80E7	
IQR52NR 10.10.20.211	IQEYE3D818A	
IQR52NR 10.10.20.215	IQEYE3D8117	
Simulator	GUY-WIN8[1]	
Simulator	GUY-WIN8[2]	
Simulator	GUY-WIN8[3]	
Simulator	GUY-WIN8[4]	
Simulator	GUY-WIN8[5]	
Simulator	GUY-WIN8[6]	
Simulator	GUY-WIN8[7]	
Simulator	GUY-WIN8[8]	
Simulator	GUY-WIN8[9]	
Simulator	GUY-WIN8[10]	
Simulator	GUY-WIN8[11]	
Simulator	GUY-WIN8[12]	
Simulator	GUY-WIN8[13]	
Simulator	GUY-WIN8[14]	
Simulator	GUY-WIN8[15]	
Simulator	GUY-WIN8[16]	
Simulator	GUY-WIN8[17]	
Simulator	GUY-WIN8[18]	
Simulator	GUY-WIN8[19]	
Simulator	GUY-WIN8[20]	
V922D-N39-IP 10.10.20.203	V922D-N39-IP0007D8170636	

Buttons: Add device to group, Remove device from group, Close, Save & Exit, Save

Note: The Group Name *inside* the Working Group Set, as well as the Group Set itself, can have any name needed. In this specific example it is called Valerus, which is also the default name used in configuration. If you want to split the cameras into different groups, Vicon recommends naming them Valerus 1, Valerus 2, etc. to be consistent, but if that scheme does not work for your system, you could use something else, for example group Building A, Building B, etc.

To avoid confusion, Vicon recommends creating a dedicated group for Valerus. Remember that a camera can be in multiple groups, so there is no need to break any existing group. Once the Nucleus is set with the groups, proceed with the next steps.

Installation

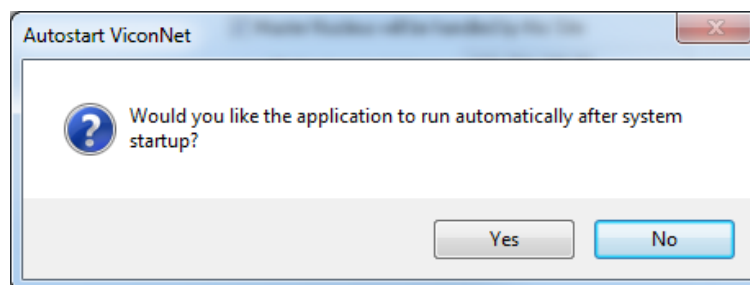
Valerus-ViconNet Gateway System

On the computer that will run as the Valerus-ViconNet Gateway [may be the dedicated Application Server in a small system or dedicated Gateway server(s)], the different software components will be installed to allow it to communicate with both systems.

- 1) Download the Valerus-ViconNet Gateway software from the Vicon website on the Software Download page. Note that this download contains two installation files in one zip file:
 - a. Valerus-ViconNet Gateway software
 - b. ViconNet version 8.3
- 2) Unzip the file and save the two installations.
- 3) Start by installing the Valerus-ViconNet Gateway on the assigned server; follow the installation steps in the setup wizard. If your system deploys multiple Gateway servers, this software will need to be installed on each of them.



- 4) Proceed and install ViconNet 8.3 on the same servers on which the Gateway software was installed. Remember that there is no need to upgrade other ViconNet devices; only the Gateway has to run this version. At the end of the installation, make sure to choose *not* to run ViconNet on system startup by clicking No (ViconNet will be used by the Gateway software automatically).



- 5) Several other dialog boxes may display to install files or services, including SQL server, Web server and Keypad COM driver. It will save time to click No for these if they are not needed on the Gateway.



- 6) When the ViconNet installation is complete, run the ViconNet software once, by right clicking the shortcut and using *Run as administrator*. You should see ViconNet load and show as a Viewer (top left).
- 7) Once ViconNet loaded, click on the exit ViconNet button. There will be no need to run ViconNet again.

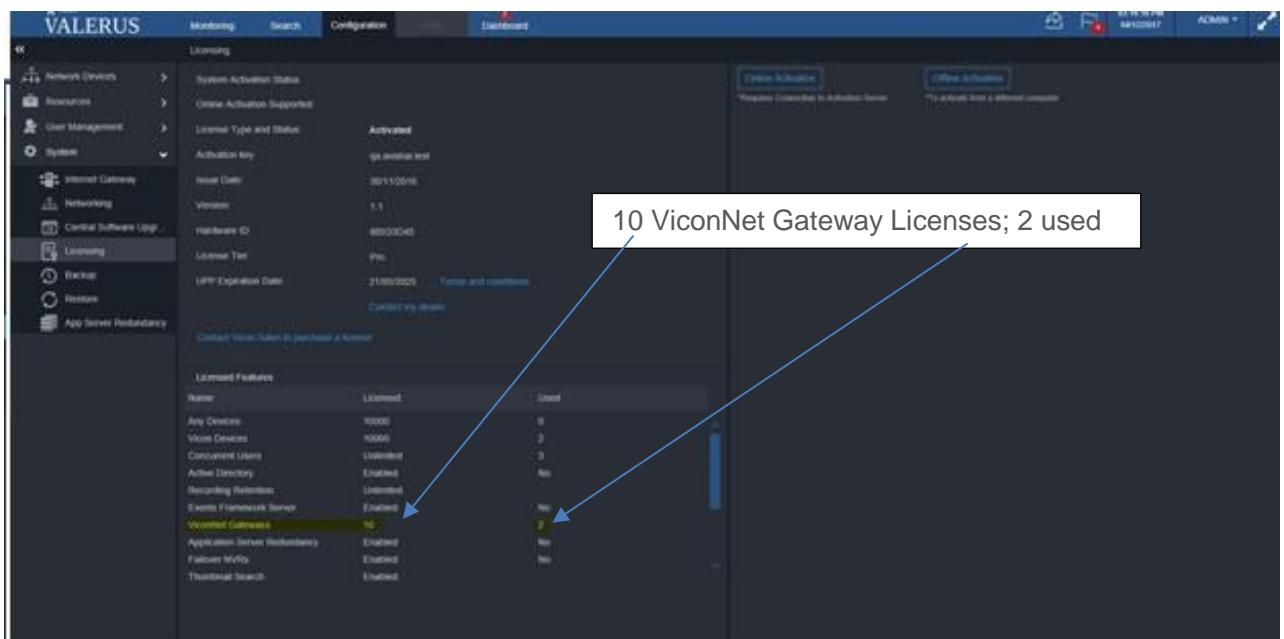
Note: In the case of a new Valerus installation, if the Gateway will be running on the Application Server, choose the *Application Server only* and **not** the *All in one option* at the end of the Valerus installation, as the Gateway cannot run on the same server running an NVR.

Installation

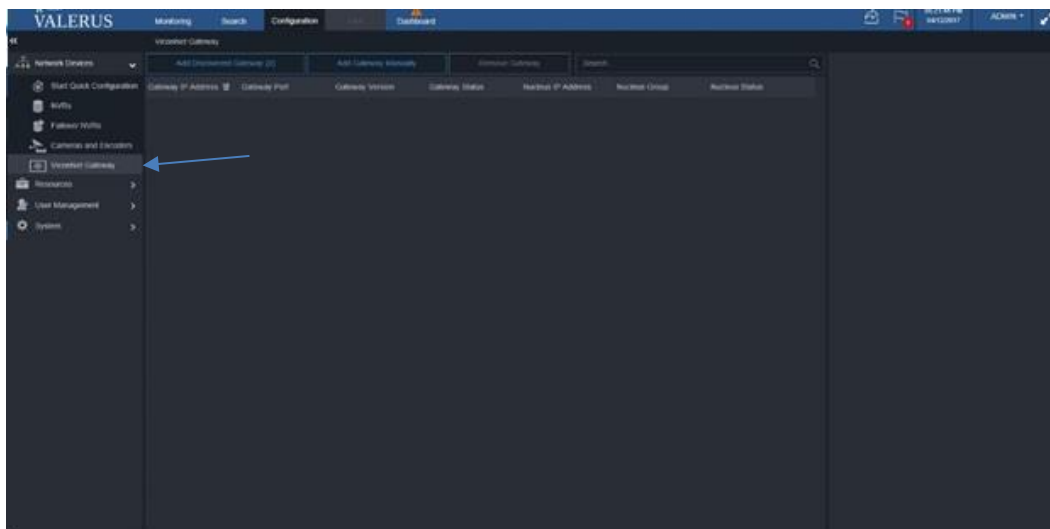
Valerus System

Once the two software packages have been installed on the Gateway computer, proceed to the Valerus application itself in order to add the Gateway and ViconNet cameras through it. To setup the Valerus system, follow the steps below.

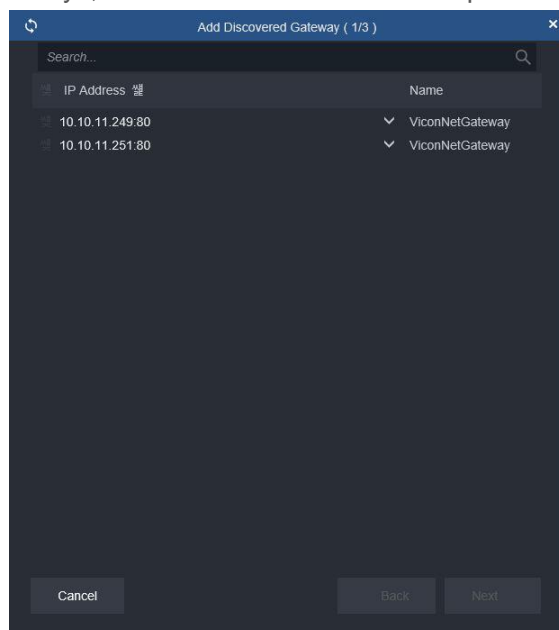
- 1) Use a newly installed Valerus system with version 18 or higher or upgrade the currently installed version to the latest version.
- 2) Make sure the Application Server and all NVRs have been upgraded.
- 3) Your Valerus license must be updated with the Gateway license (if this is a new install, and the Gateway was part of the license, it should already be in place; if this is an upgrade, Vicon will need to update your activation key and you will then need to re-activate the system license). Each Gateway added to the Application Server requires a license; if there are 2 ViconNet Gateways running in 1 system, this will require 2 ViconNet Gateway licenses.



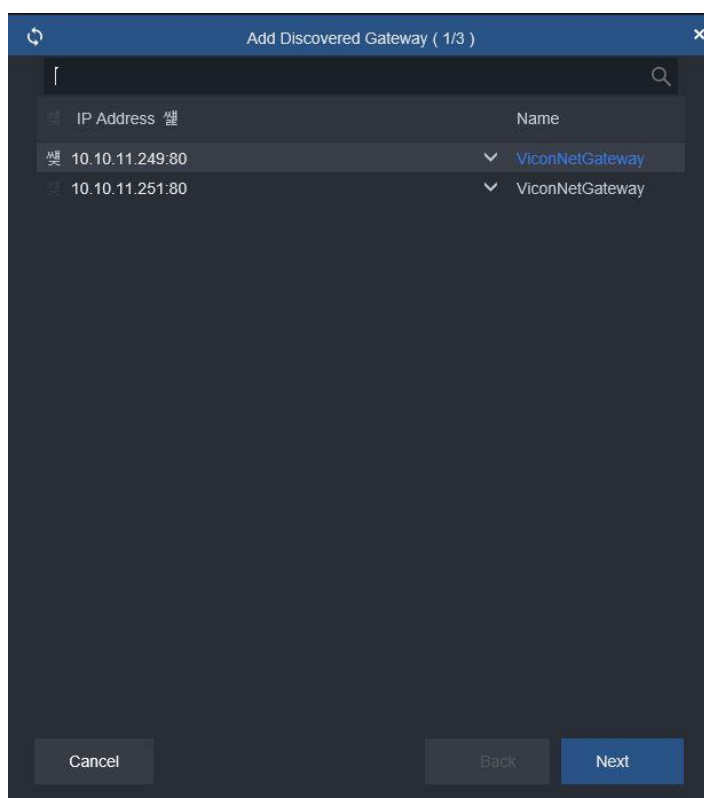
- 4) Enter the Configuration tab.
- 5) Open the Network Devices menu on the left side. Click on the ViconNet Gateway option.



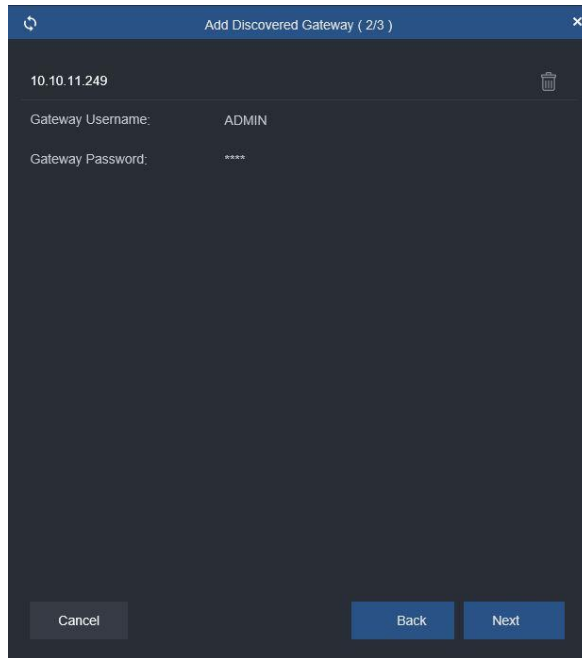
- 6) Click on the Add Discovered Gateway to show the list of Gateways discovered on the network. The discovery works in a similar way to the NVR discovery and will discover Gateways on the LAN. If you select multiple Gateways, the user will be asked to complete details for all of them in the next steps.



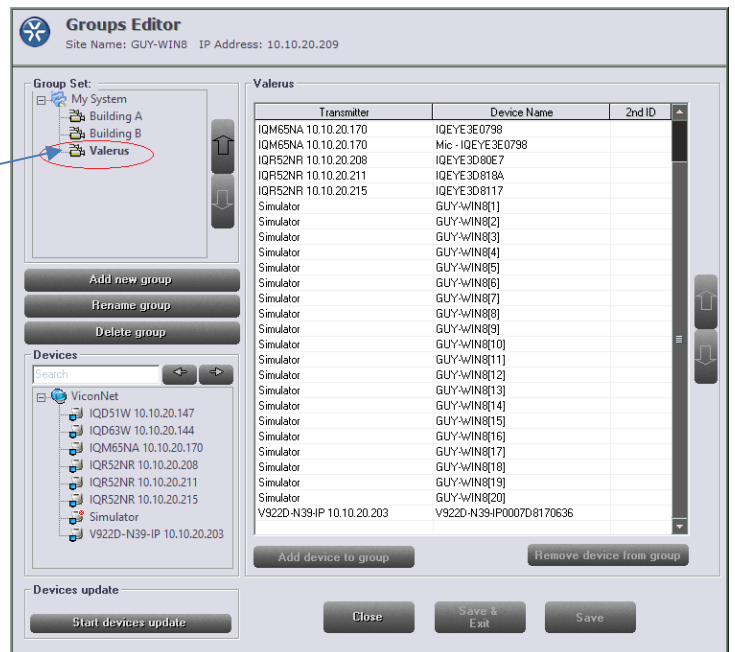
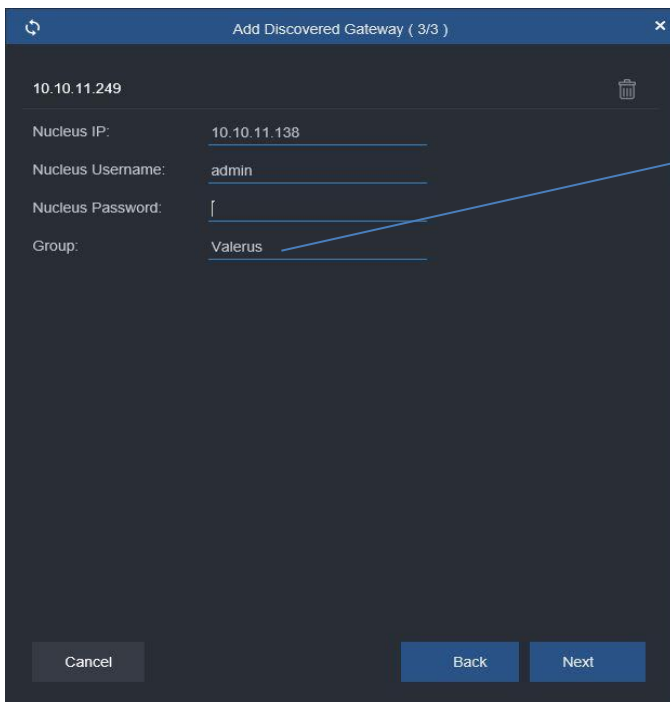
- 7) Select the Valerus-ViconNet Gateway to be added; use the drop down list if you need to select a different network interface (if one exists). Click Next.



- 8) The Gateway User Name and Password defaults are ADMIN, 1234 (the same as the NVRs).

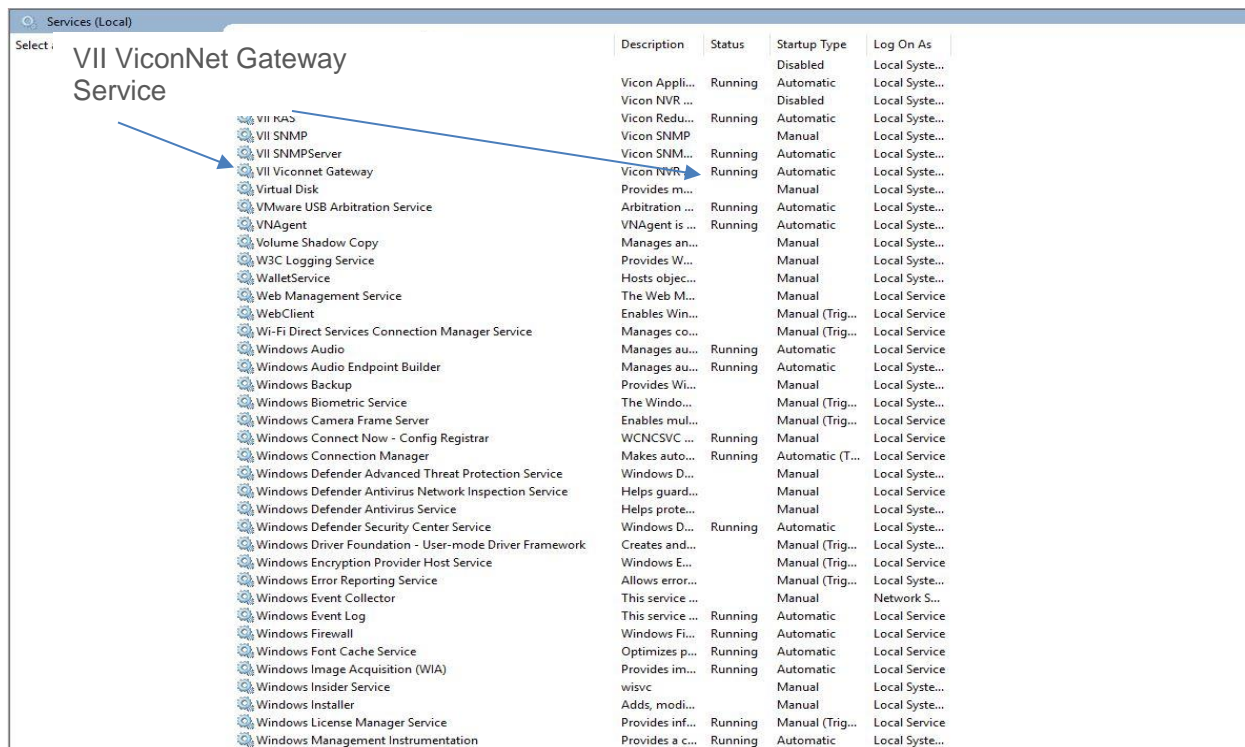
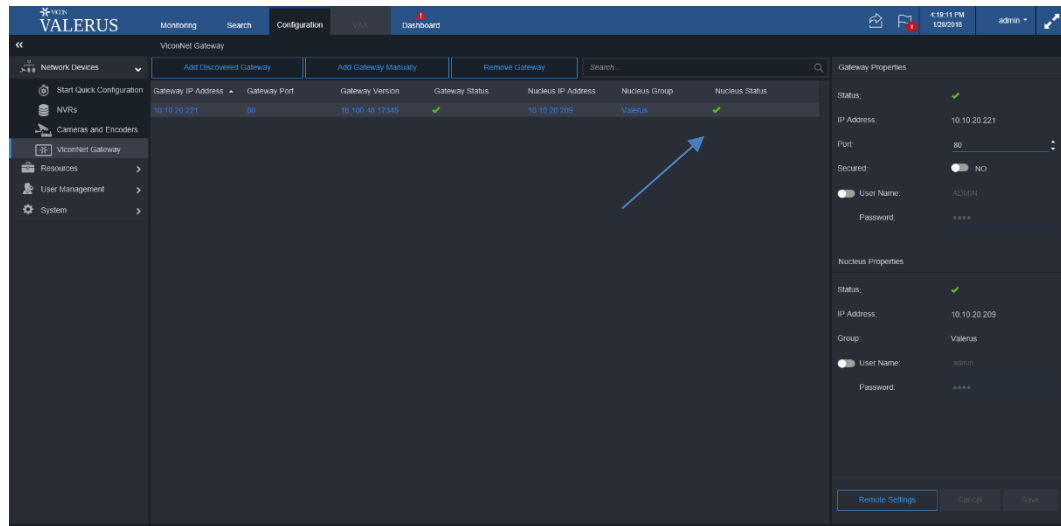


- 9) You should see a green check mark indication the Gateway has been connected. If the credentials have changed, update them here. Click Next.
- 10) You will be asked for the Nucleus information allowing the Gateway to connect and communicate with the pre-assigned camera group. Fill in all the details as shown in the example below:
 - a. Nucleus IP: the IP address of the ViconNet Nucleus.
 - b. Nucleus Username and Nucleus Password: the same login credentials as the ViconNet administrator login credentials.
 - c. Group: the Group name inside the ViconNet Working Group Set that contains the cameras from ViconNet to be added to this Gateway.

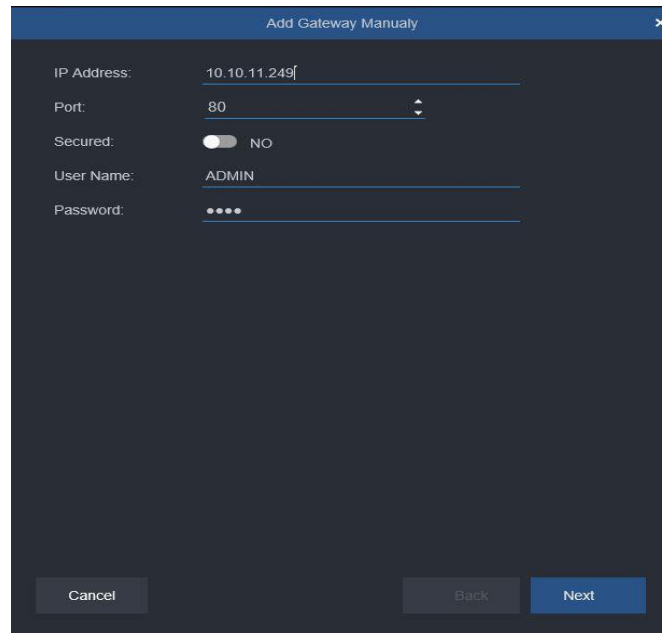


- 11) Click Next.
- 12) If all the information entered is correct, the following screen should display; Gateway Status should show Online and Nucleus Status should show green check mark.

- 13) If the Gateway Status shows Offline, make sure that the Gateway Service is running on the computer that it is installed on, or that the computer itself did not go offline; if the Nucleus status does not have a green check mark, make sure that the Nucleus is online and can be reached on the network by the Gateway computer.



- 14) If the Gateway is located on another network or another VLAN and the Gateway machine can be pinged, it may not be discovered automatically by Valerus. In this case, use the Add Gateway Manually. Enter the Gateway IP address and port of the Gateway computer to be added. The remainder of the steps are identical to the Add Discovered Gateway procedure. See the image below.



The screenshot shows a dark-themed configuration window titled "Add Gateway Manually". It contains the following fields and controls:

- IP Address: 10.10.11.249
- Port: 80
- Secured: NO
- User Name: ADMIN
- Password: ••••

At the bottom, there are three buttons: "Cancel", "Back", and "Next".

Once the Gateway installation and configuration are completed, it will show in the Valerus system as if all the cameras are on one virtual encoder and all the Resources coming through the Gateway will be populated.

Video/audio Resources: all cameras coming through the Gateway will be in the list and relevant parameters can be set.

Remember that when using the Valerus-ViconNet Gateway, all the recording still takes place on the ViconNet system, so in Valerus these channels will not be configurable for streams and recording. Masking, if needed, will need to be defined in Valerus for the channels even if they have masking in ViconNet.