ViconNet 8.2 / OnGuard 7.2 Integration

General Description

This document provides instruction for the installation and configuration of ViconNet version 8.2 integration with Lenel OnGuard version 7.2.

Pre-requisites

Prior to starting the installation versify the following items:

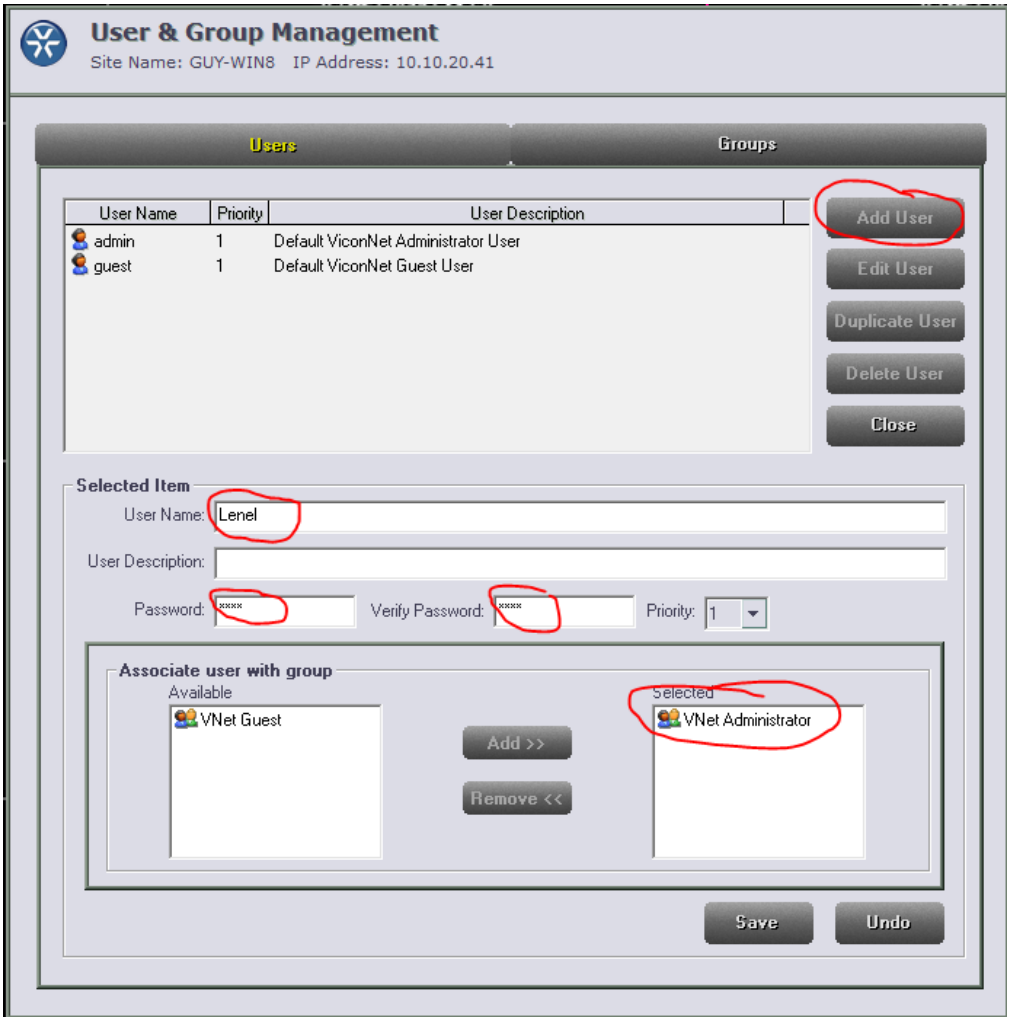
1. Lenel OnGuard version 7.2 is installed and running on the network. The OnGuard system must have all licenses required for video integration.
2. ViconNet VMS is installed and running on the network. The ViconNet Nucleus server must be running version 8.2 as a minimum.
3. Computers running the Lenel Client meet the minimum requirements for ViconNet workstation PC. This is needed to ensure proper video support and performance.
    a. Intel® Core™ i5 processor
    b. 4 GB RAM
    c. Strong display card with 256 MB RAM onboard
    d. 20 GB of free space on hard drive
    e. Microsoft® Windows® 7 / 10, 32/64 bit; Windows Server 2003, 32 bit (service pack 2 or later); Windows Server 2008, 32/64 bit or 2012
    f. Microsoft.NET 4.6 required and will be installed by ViconNet
4. Verify the client PC has network connection to the ViconNet system.
5. Verify that you have administrator rights for the installation.

Written by Guy Arazi

ViconNet configuration

Create an user for the integration

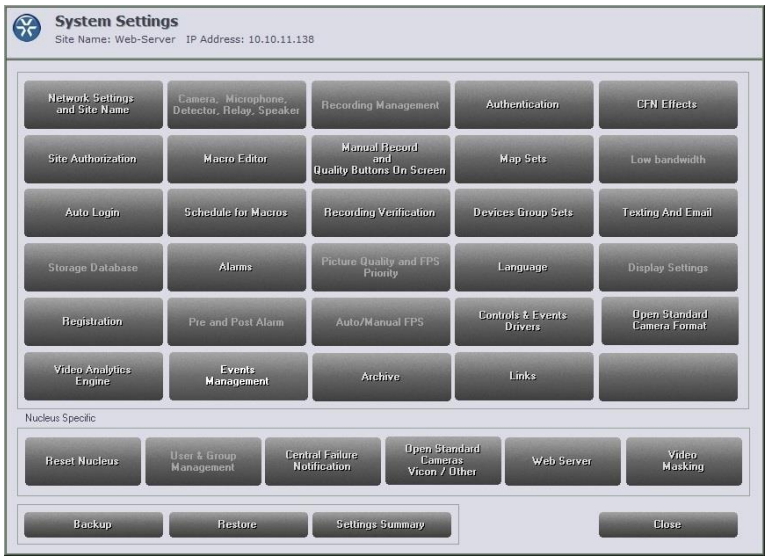
The OnGuard system **MUST** have a user to connect to the ViconNet VMS with, you can either use the built in 'admin' user or, in the ViconNet Nucleus, add a user **'OnGuard'** for the integration software to connect through. It is recommended that the user will be a member of the administrators group in ViconNet in order to ensure it is authorized to see live and playback video from the integrated channels.



Create a Group of cameras

In the ViconNet Nucleus if a working device group set exists, enter it and add a group called Lenel. If a working set does not exist create one, mark it as a working set and then add a group called Lenel. Then proceed and add only the cameras you wish to integrate with. By doing this you can select only the cameras relevant to the integration and leave all other cameras out of reach from the access control side. If all cameras need to be integrated, include them all in the created Lenel Group.

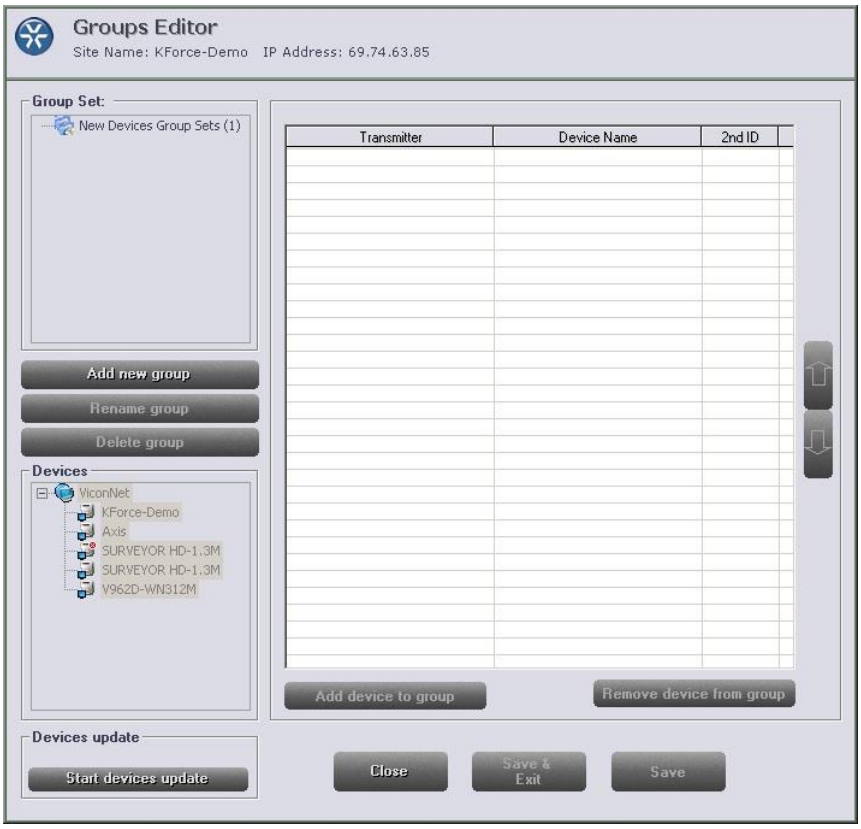
1. In ViconNet, click *Setup* and select your Nucleus from the *Setup Site* list. The *System Settings* will display.



2. Select *Devices Group Sets*. The *Devices Group Sets Management* screen will display.

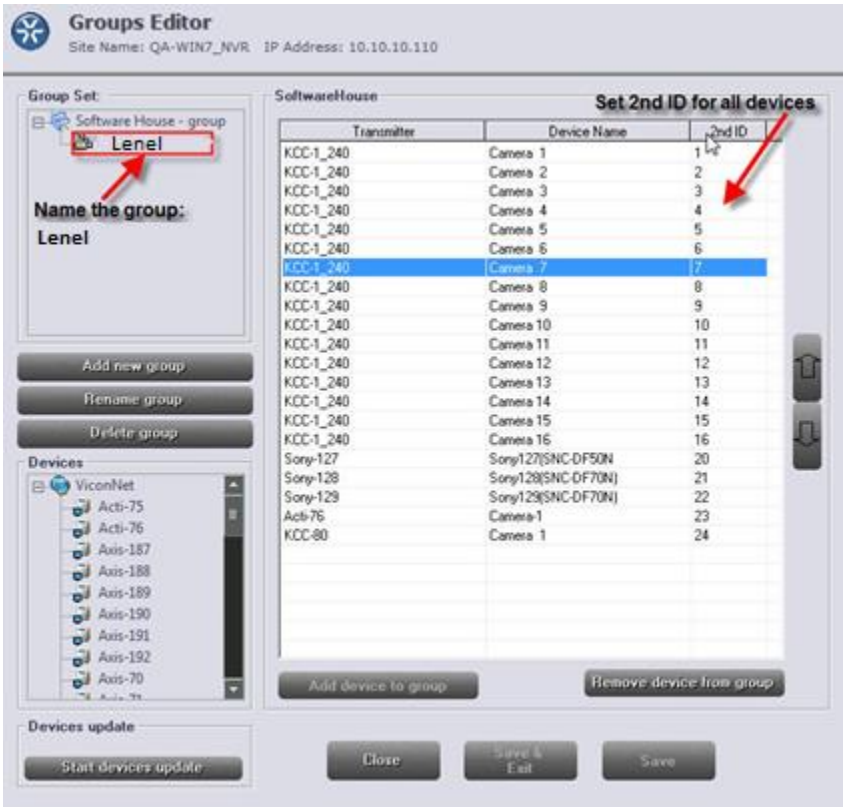
3. Click *Add*; the next blank line will add New Devices Group Sets; this name is editable. This can be selected as the working set and can be given any name.

4. Double click on the new group; the *Groups Editor* screen displays.



5. Select the group set and click *Add new group*; a *New Group* appears in the *Group Set* list. This name can be edited. Note that the working group set can contain a number of groups; it is important to name this new group within it to identify it as **'Lenel'**, as it will contain all the cameras that need to show in OnGuard. ***Be sure to name the group Lenel, without any spaces or other characters***.
6. Select the camera(s) to be added to the list from the *Devices* list and click *Add device to group*. Remember, only the cameras in this group can be imported to OnGuard, so be sure to select all relevant cameras.

7. You must assign a 2nd ID to each camera in the Lenel group (adding running numbers from 1 unless you have a different need).



8. When all the devices have been added to the group, click *Save* or *Save & Exit.*

Software Installation and set up

There are two software packages that need to be installed on both the OnGuard server and on ANY of the OnGuard client computers:

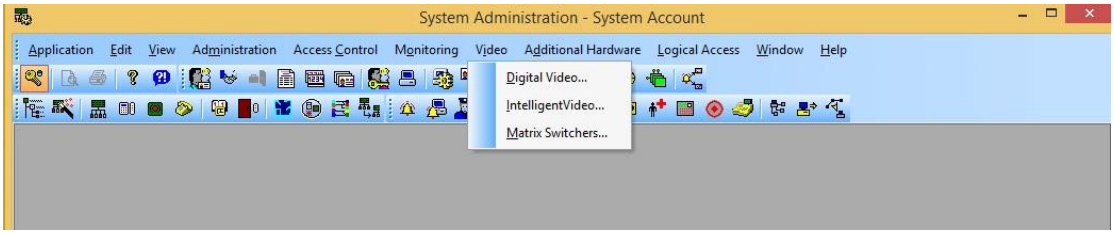
1. ViconNet Accessory add-on for OnGuard 7.2 (obtain from Lenel)
2. ViconNet version 8.2 software
    a. To install ViconNet follow the instructions in Appendix A at the end of this document
    b. In systems where alarm events from ViconNet devices (VMD, sensor) need to be seen in the OnGuard alarm monitoring an additional configuration is needed. Refer to Appendix B at the end of this document

OnGuard Configuration

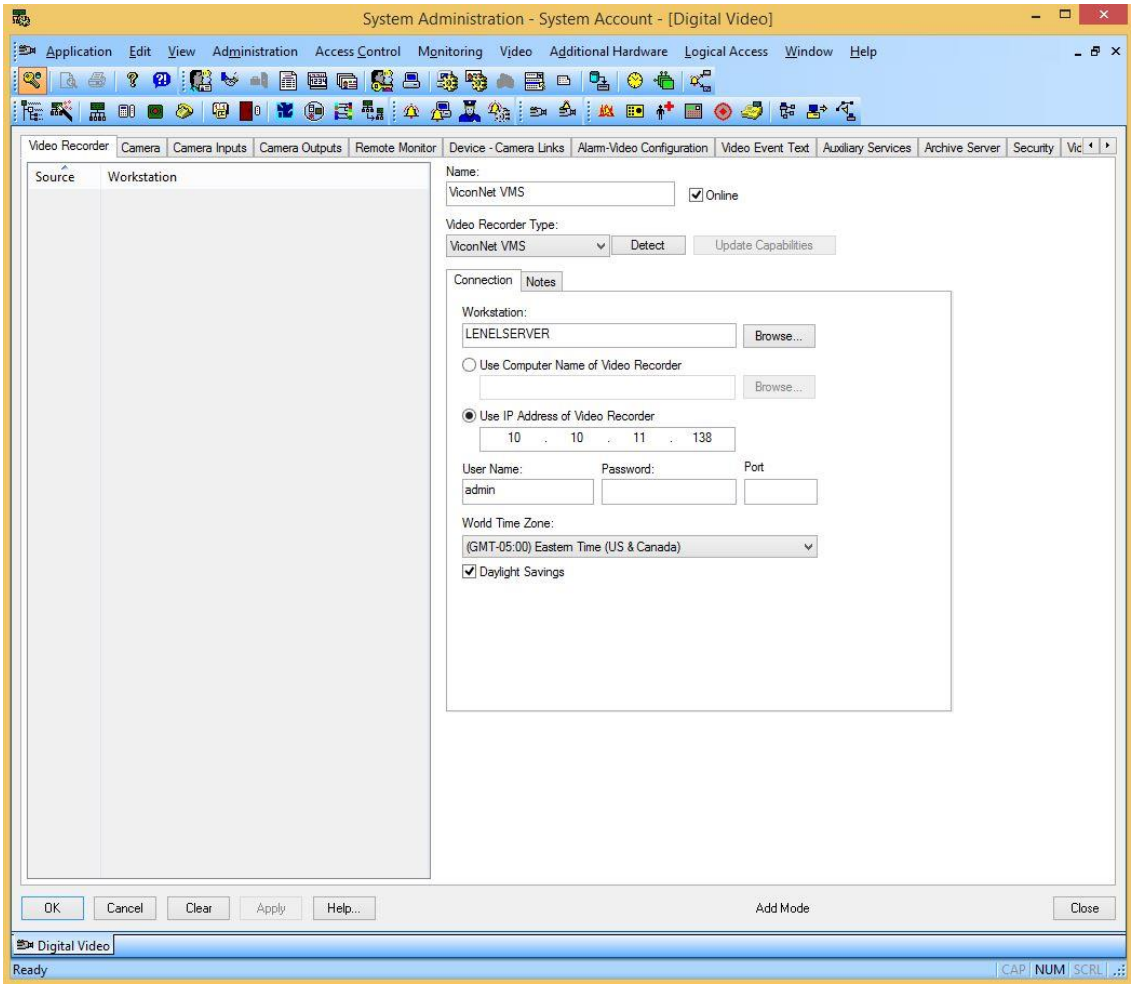
Once all installations have been completed you may proceed to add the ViconNet VMS to OnGuard

1. Run OnGuard System Administration Application and log in

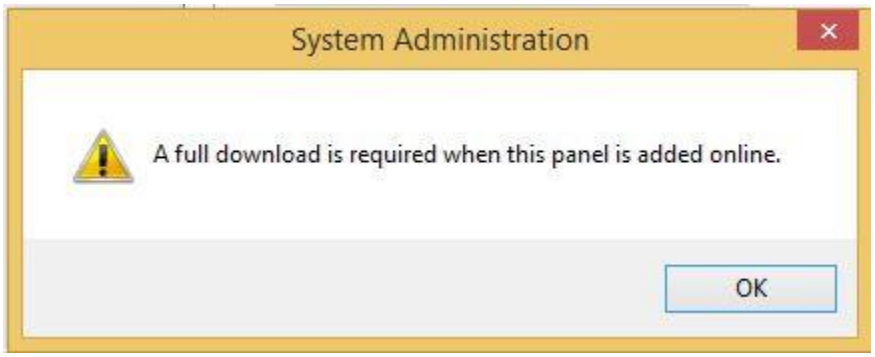
2. From the Video menu select Digital Video



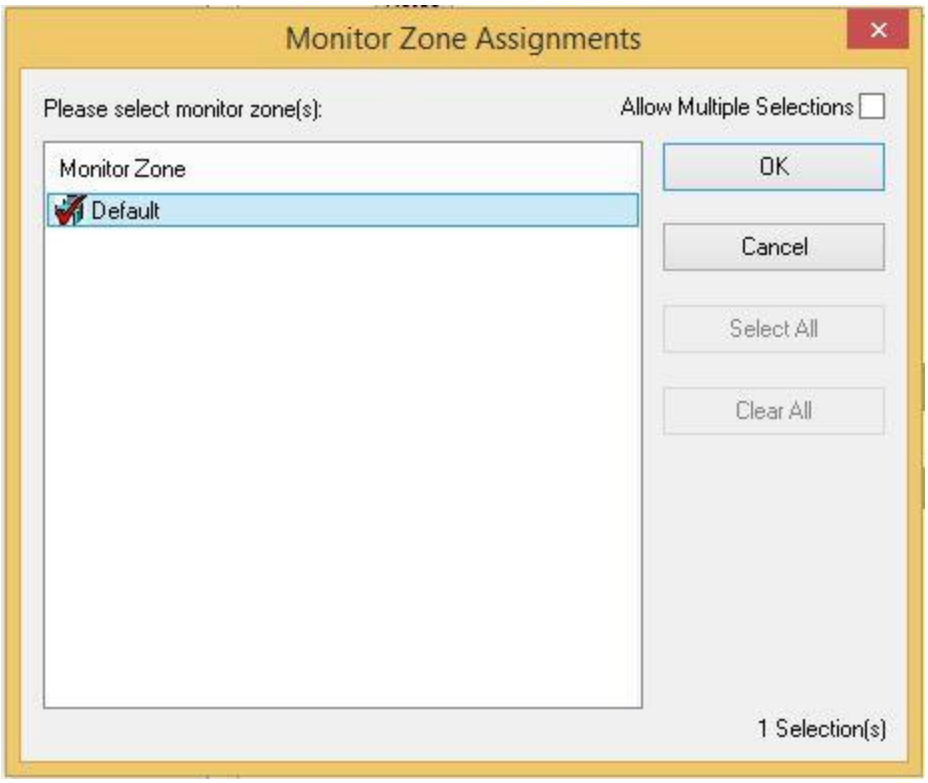
3. Under the Video recorder tab add the ViconNet VMS. Note, in this integration the entire VMS is added as one "big" video recorder
    a. Name: can be any logical name
    b. Type: ViconNet VMS
    c. Workstation: provide the OnGuard server name
    d. IP: the IP address of the ViconNet Nucleus
    e. User / password: the username and password to connect to the ViconNet system. A Username has to be provided and may not be blank (will cause comm server crash)
    f. Rest of the fields as needed



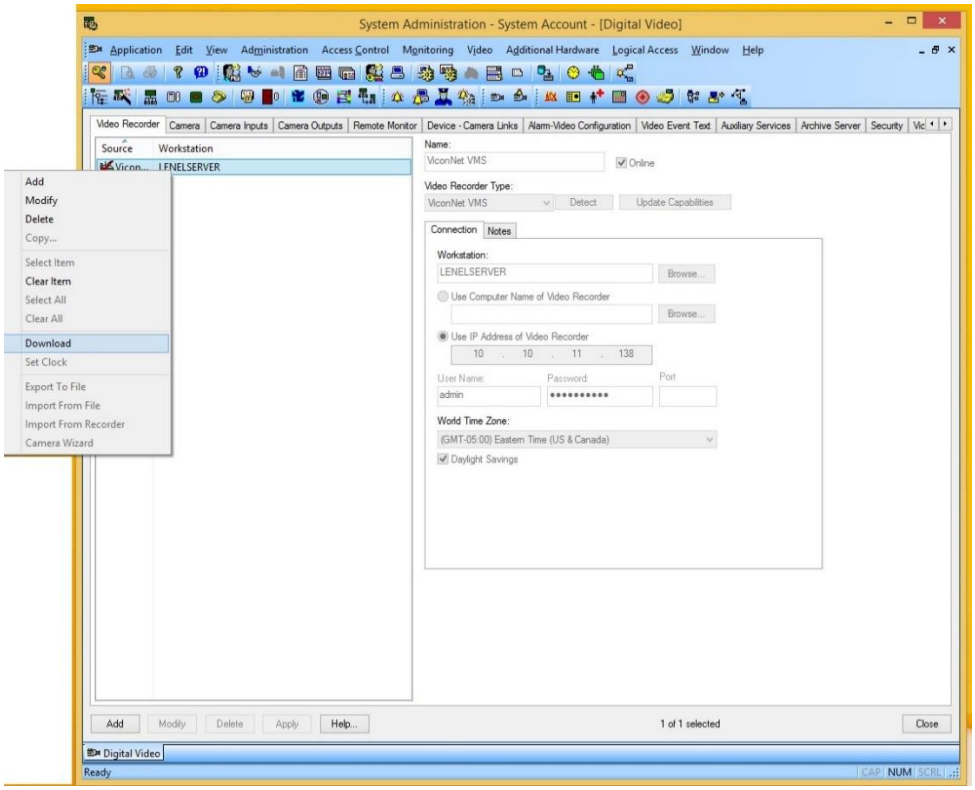
4. The following message will be shown when the Video Recorder has been added



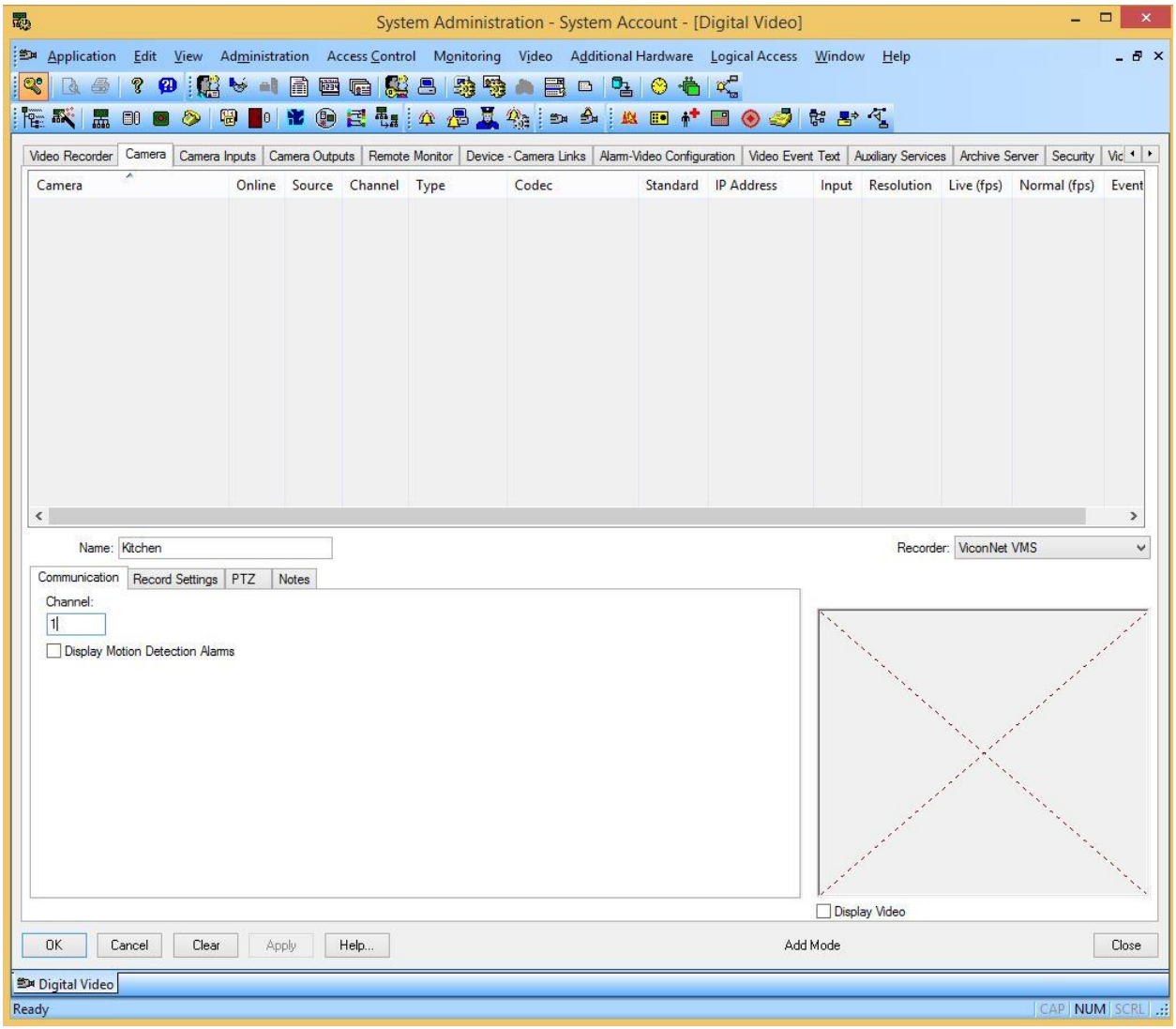
5. You will be asked to set the monitoring zones for the video system at this time



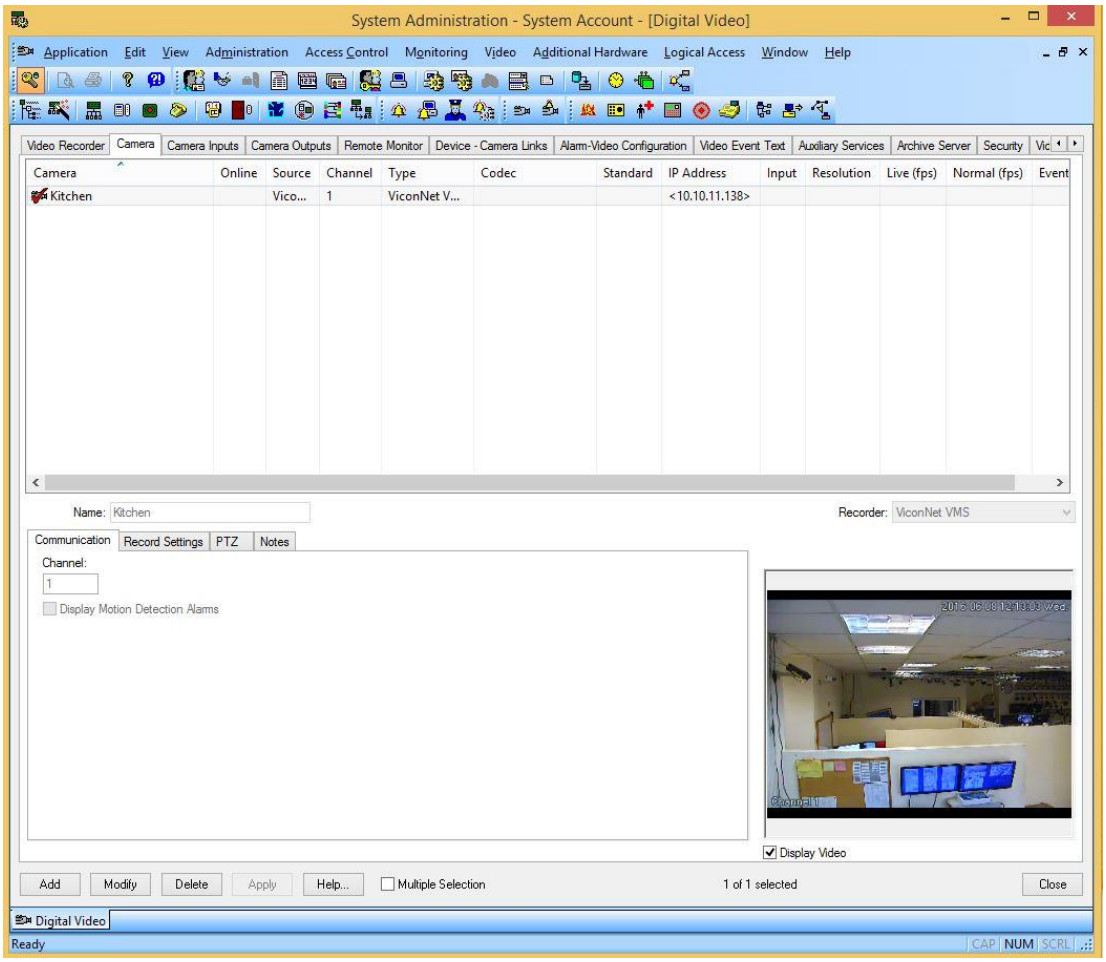
6. To perform a full download right click on the added recorder and select download



7. Switch to the camera tab and add the cameras. These will be cameras included in the Lenel group you created in ViconNet
    a. Name: logical name for the camera
    b. Channel: the 2nd ID number assigned to this camera in the Lenel group created in ViconNet
    c. Recording and PTZ settings where relevant
    d. Rest of fields as needed



8. Once added you can check the display video box to load the camera



Note:

The Communication server needs to either run as an application or be properly set to run as a service with local Windows user privileges.

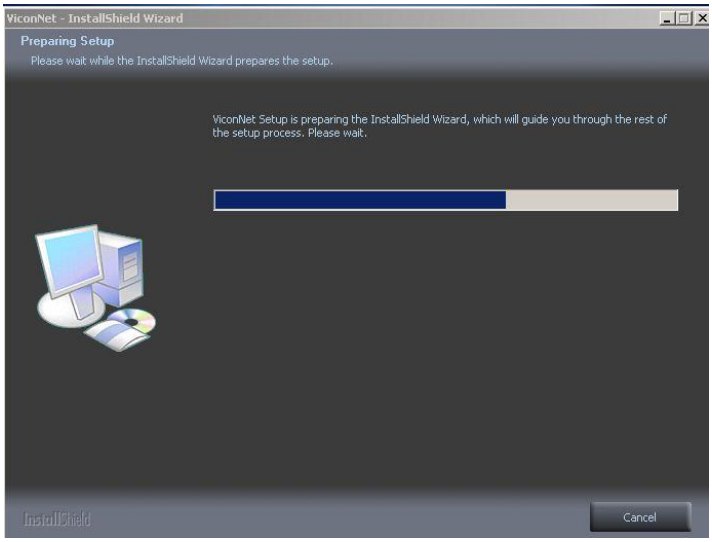
To set the service correctly refer to appendix B

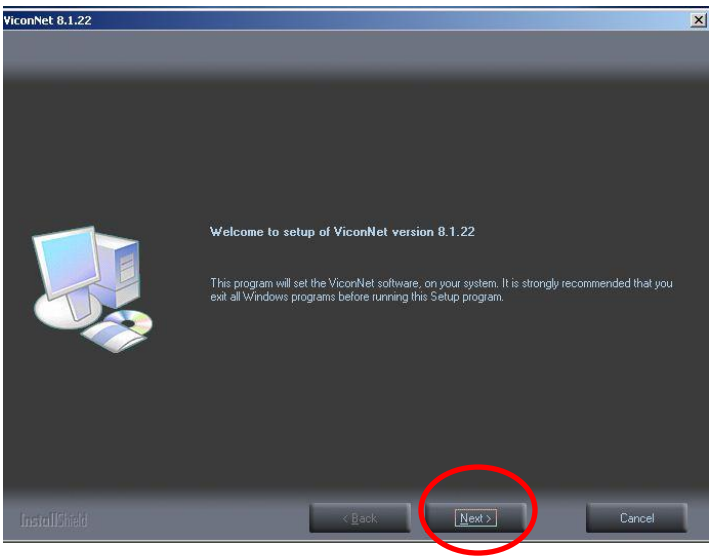
Appendix A – ViconNet 8.2 installation on OnGuard PCs

Please follow the steps below when installing the ViconNet 8.x software on the OnGuard server and clients. This should be done after installing the accessory add-on

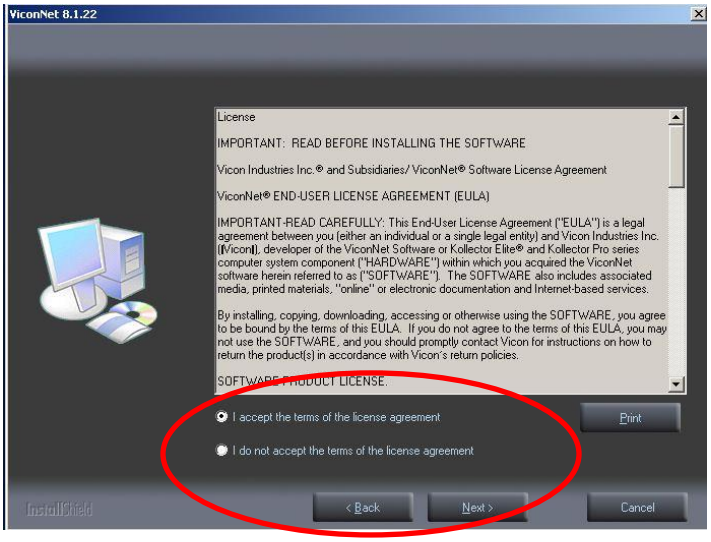
1. Obtain the installation file for ViconNet 8.2 from Vicon. This is a self-extractable single file.

2. Double click to start the installation process and follow the steps below:

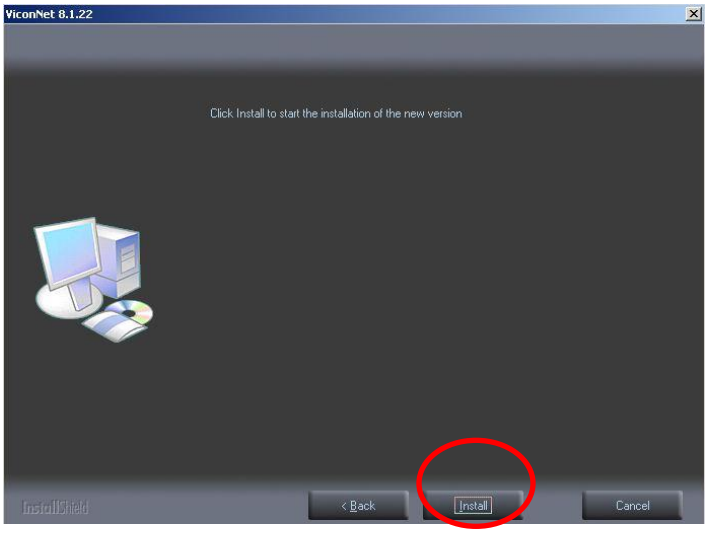




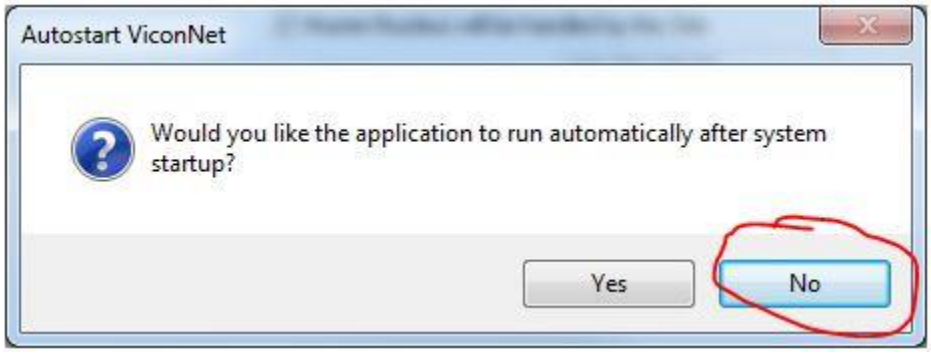
3. Check the box to agree with the license and click next

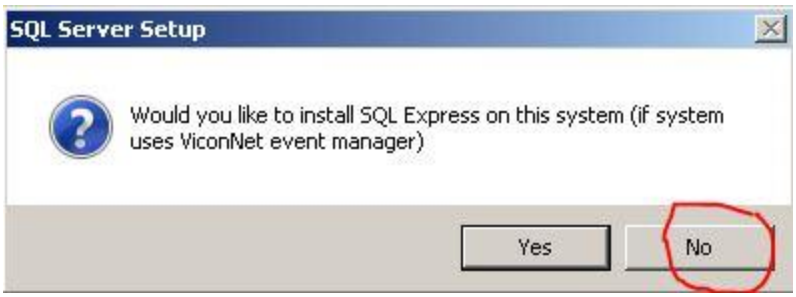


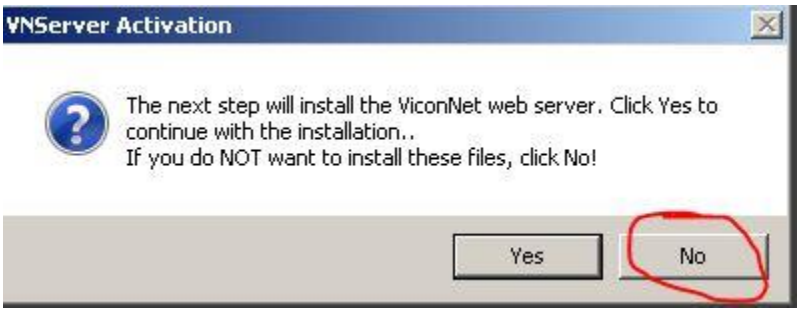
4. Click install

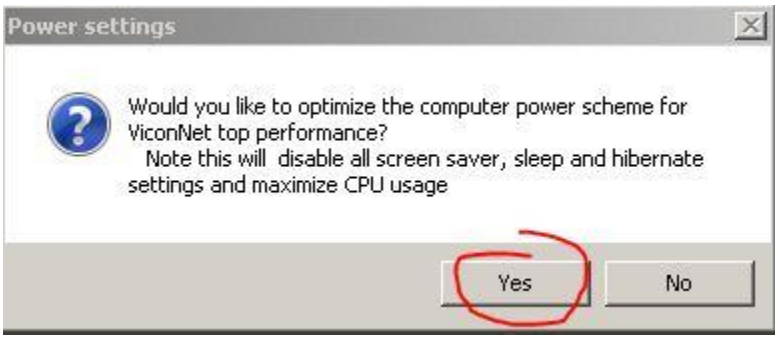


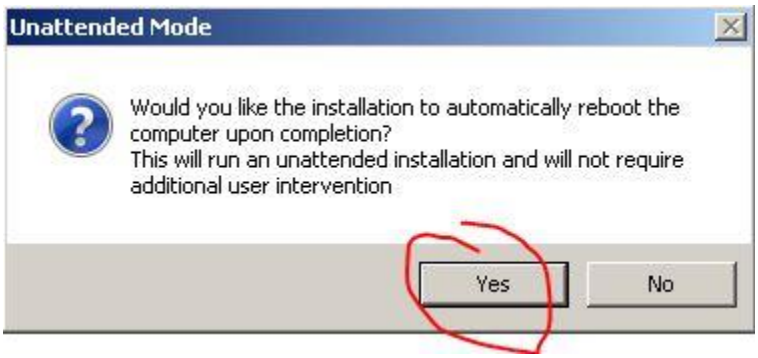
5. A series of installation options will be presented next. The recommended selection is shown below assuming installation on an OnGuard server or client.



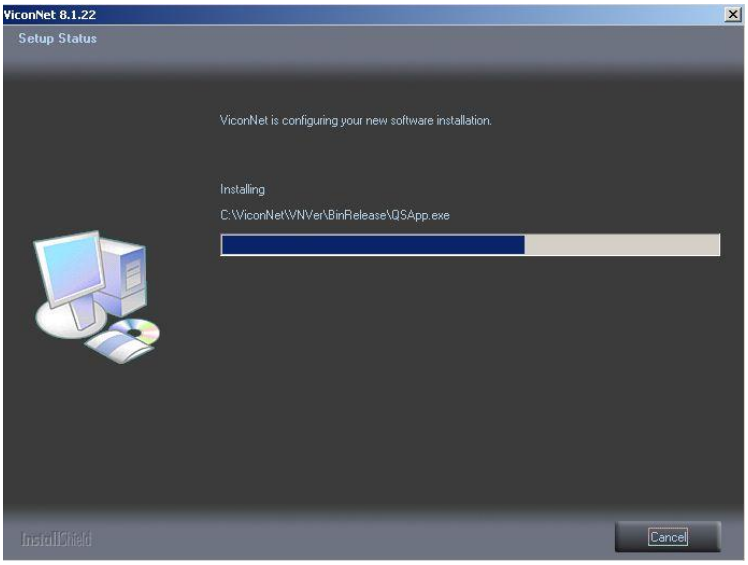

SQL Server Setup
Would you like to install SQL Express on this system (if system uses ViconNet event manager)
Yes
No


VNServer Activation
The next step will install the ViconNet web server. Click Yes to continue with the installation..
If you do NOT want to install these files, click No!
Yes
No


Power settings
Would you like to optimize the computer power scheme for ViconNet top performance?
Note this will disable all screen saver, sleep and hibernate settings and maximize CPU usage
Yes
No


Unattended Mode
Would you like the installation to automatically reboot the computer upon completion?
This will run an unattended installation and will not require additional user intervention
Yes
No

6. Next step will install pre-requisites and files. This step might take a few minutes



7. The following installation questions related to keypad driver will be displayed. The recommended selection is shown below assuming installation on an OnGuard server or client.

8. Once all files have been installed the computer will ask to restart (see step 5 above). It is recommended to restart before performing the setup step below.

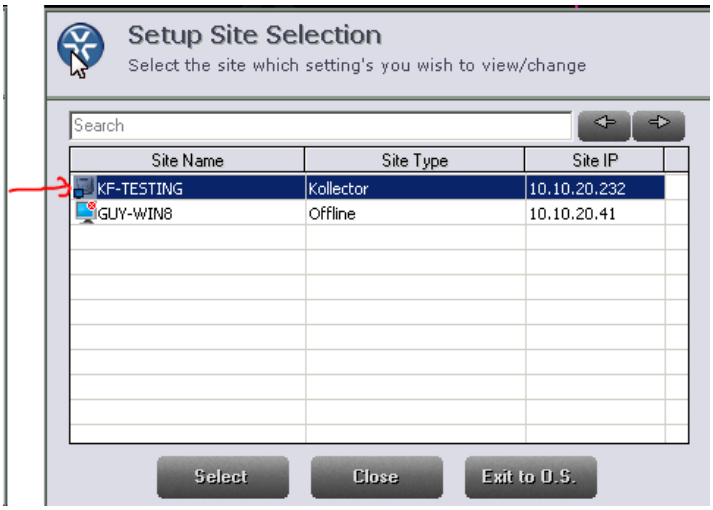
Setup of ViconNet to the Nucleus

After installing the ViconNet software it is require to point it to the ViconNet VMS Nucleus, this needs to be done only once. Make sure to obtain the ViconNet Nucleus IP before proceeding with the steps below.

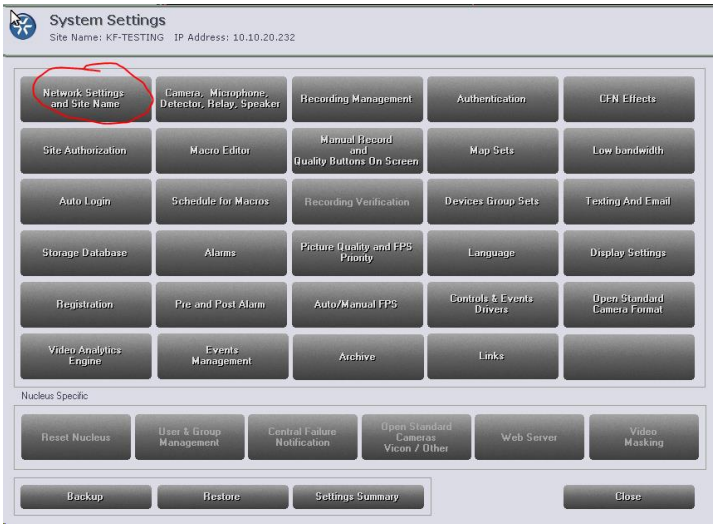
1. Run the ViconNet client by double clicking the shortcut on the desktop

2. Log into ViconNet with user: admin and no password

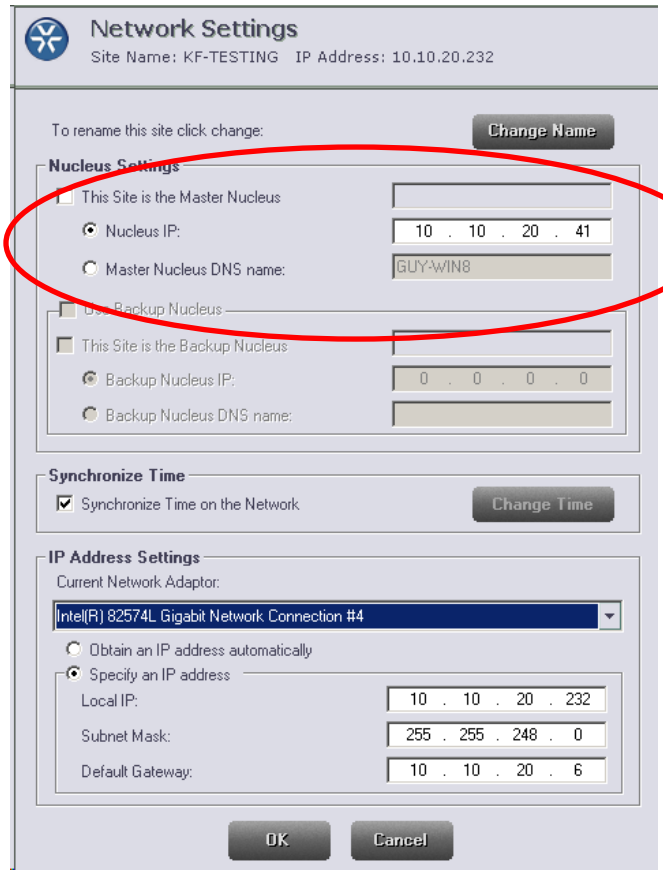
3. Click 'setup' and select your system (first on the list)



4. Click Network settings and site name



5. Uncheck the box for "this site is the master Nucleus" and fill in the correct Nucleus IP address



6. Allow to save and restart the application

7. Once the application restarts you may exit to the O.S and not run the application again

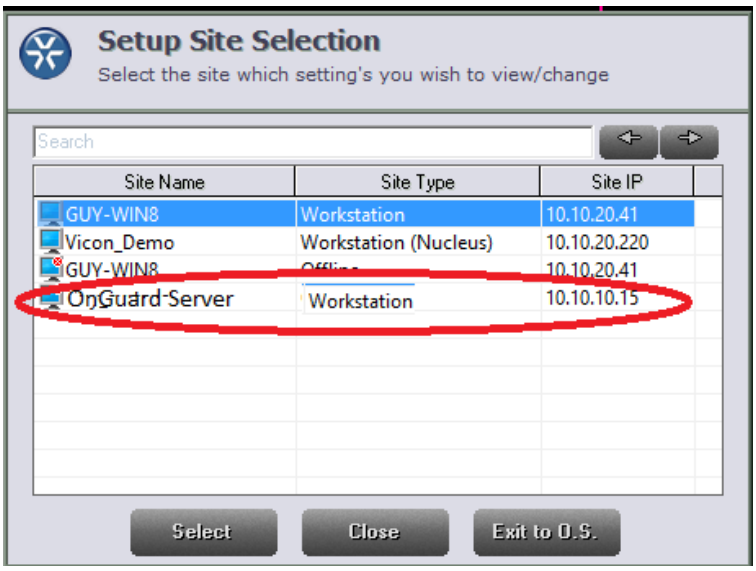
Appendix B – Configuring alarm event from ViconNet to OnGuard

In case alarm events from the ViconNet VMS need to be sent to the OnGuard system (such as VMD and sensor) to be seen in the alarm monitoring application, it is required to set the alarm sending and receiving accordingly. Settings are on the OnGuard server and the ViconNet NVRs.

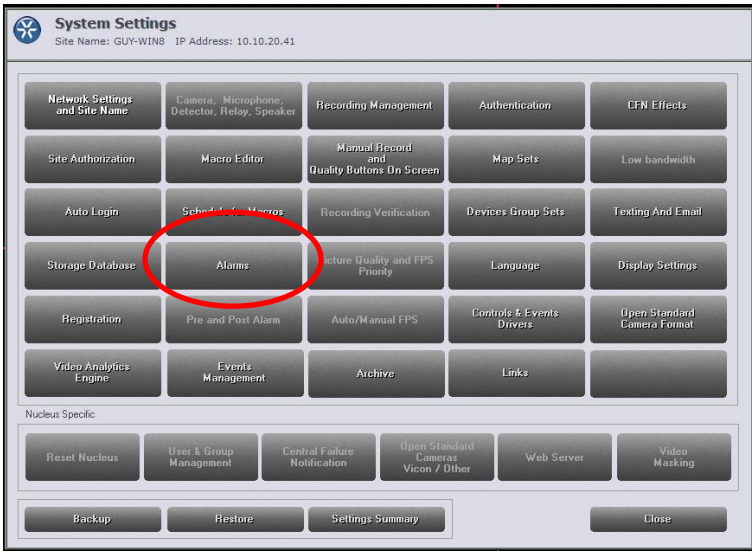
Allow alarms to be **received** by the OnGuard Server

The steps below should be once the integration is up and running!

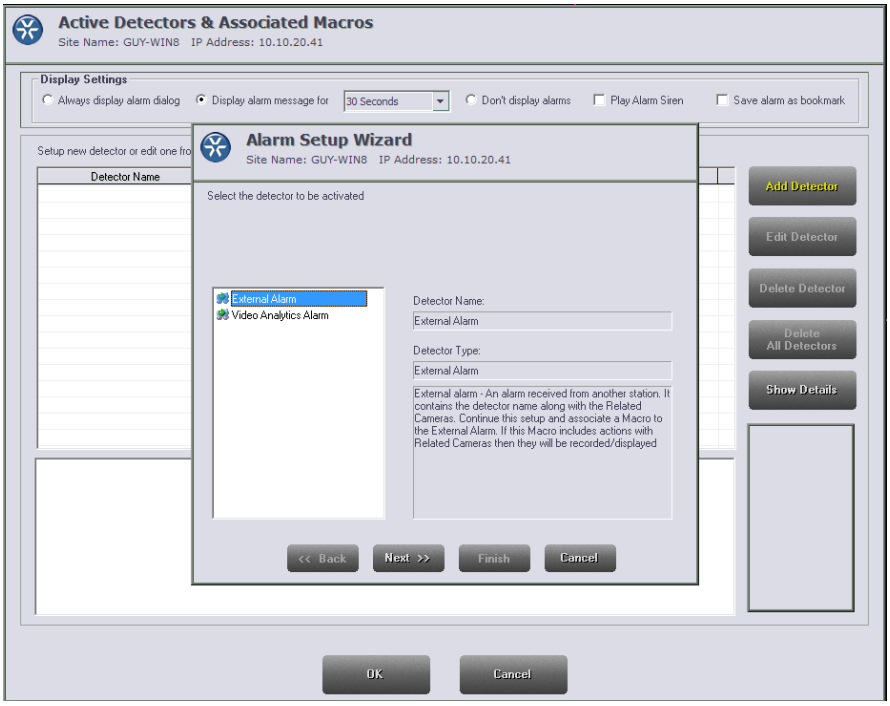
1. On the ViconNet VMS (Nucleus or workstation) click set up and select the OnGuard server PC from the list of devices. If the machine is not listed or shows as "offline" make sure you have completed the integration setup and configuration on the server and that you able to see video on that PC



2. Click on the Alarms button to enter alarm configuration

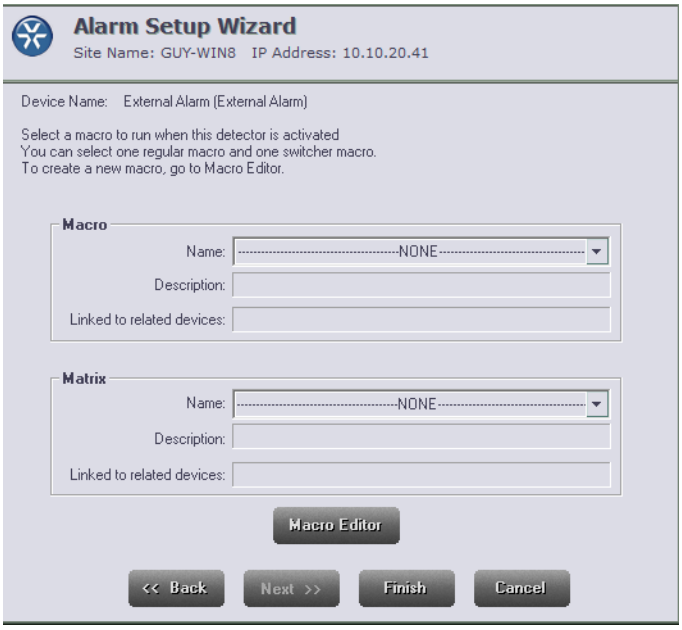


3. If "External Alarms" are not listed, click "Add detector", select "External Alarm" and click 'Next'



4. Default setting for this input is 24/7 but can be changed if needed

5. There is no need to select a macro, click 'Finish'



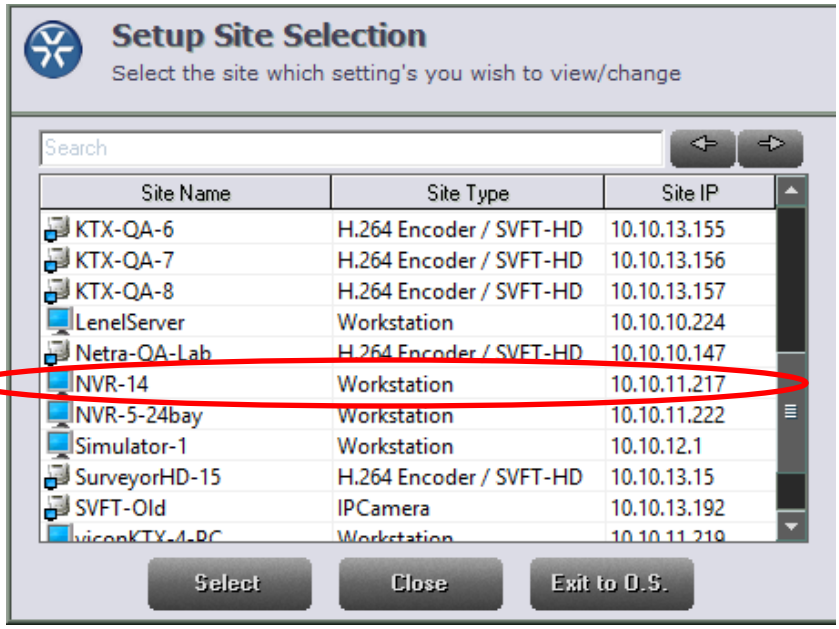
6. Click 'OK' and exit the set up screen.

7. If events are not seen in OnGuard, reboot the server

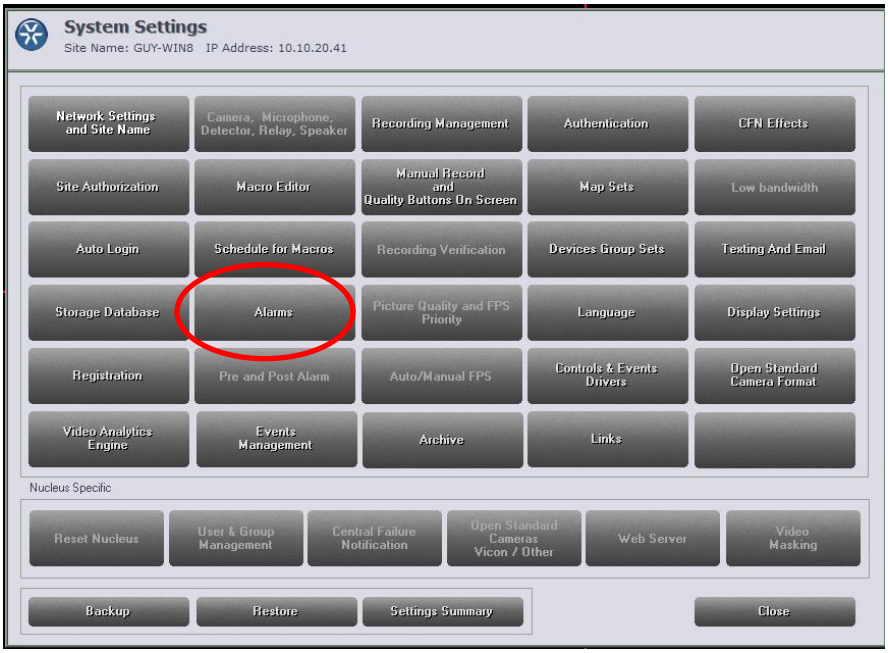
Allow alarms to be **sent** to OnGuard

The steps below need to be done on **every NVR** recording cameras that need to send events to the OnGuard system.

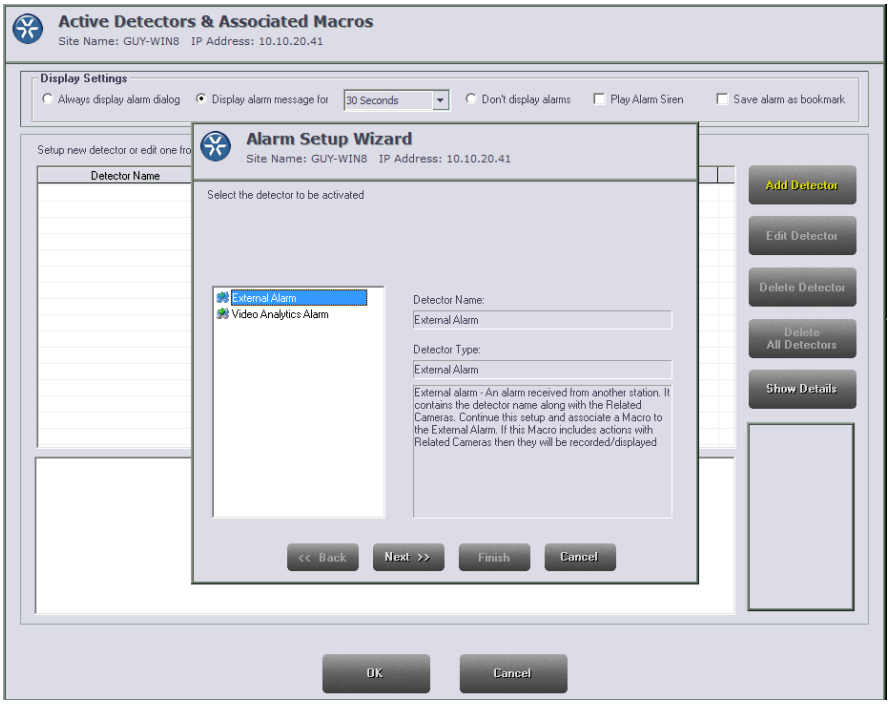
1. On the ViconNet VMS (Nucleus or workstation) click set up and select the NVR from the list of devices.



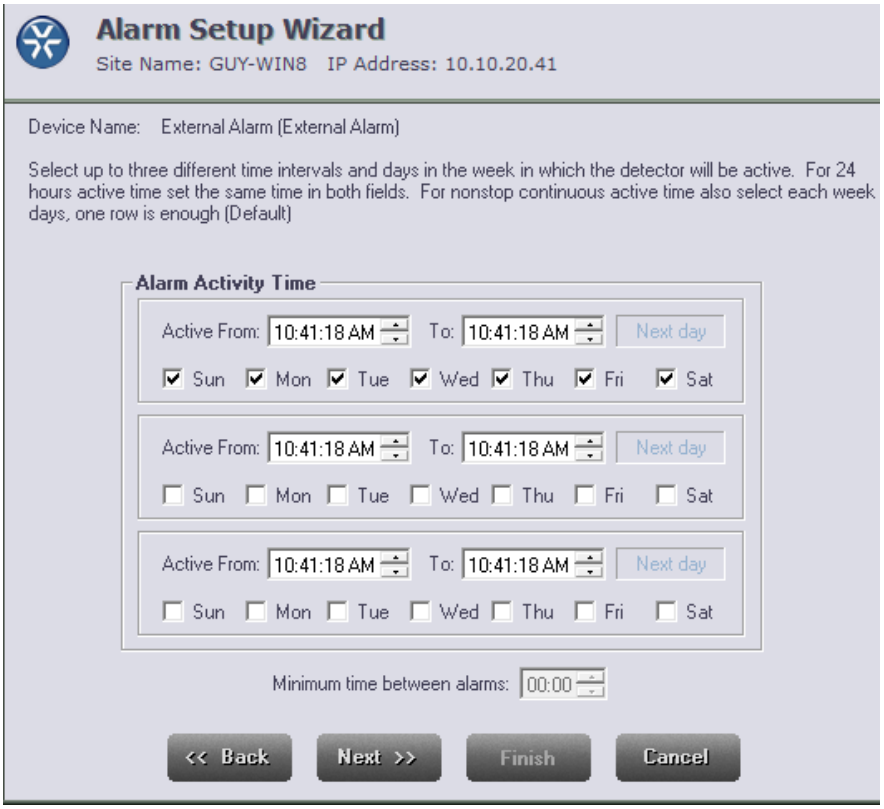
2. Click on the Alarms button to enter alarm configuration



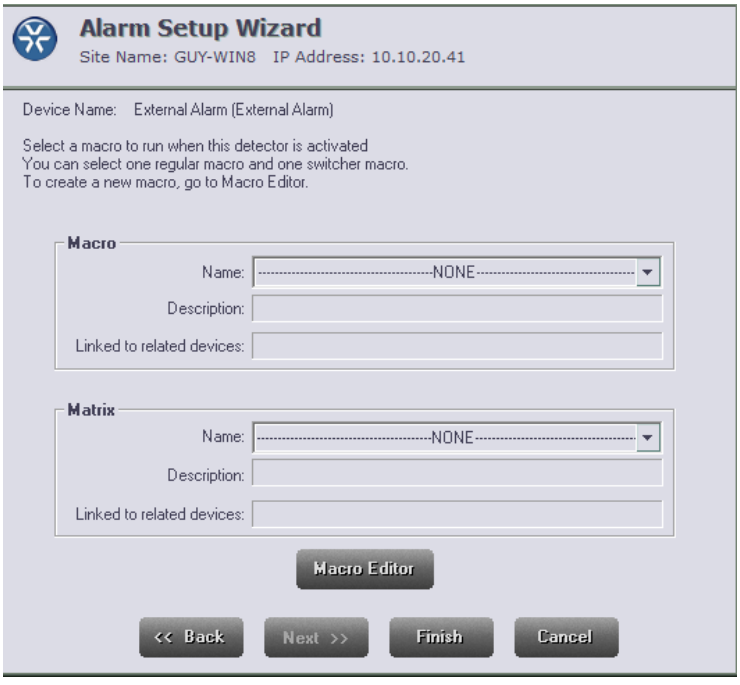
3. If "External Alarms" are not listed, click "Add detector", select "External Alarm" and click 'Next'. if it is listed, double click it to edit



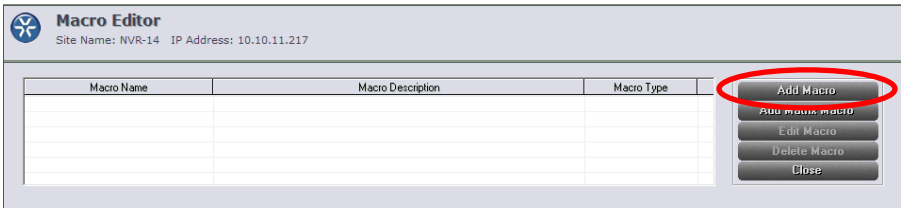
4. Default setting for this input is 24/7 but can be changed if needed



5. A macro needs to be created to send the alarms to the OnGuard server. Click 'Macro Editor'



6. Click 'Add Macro'



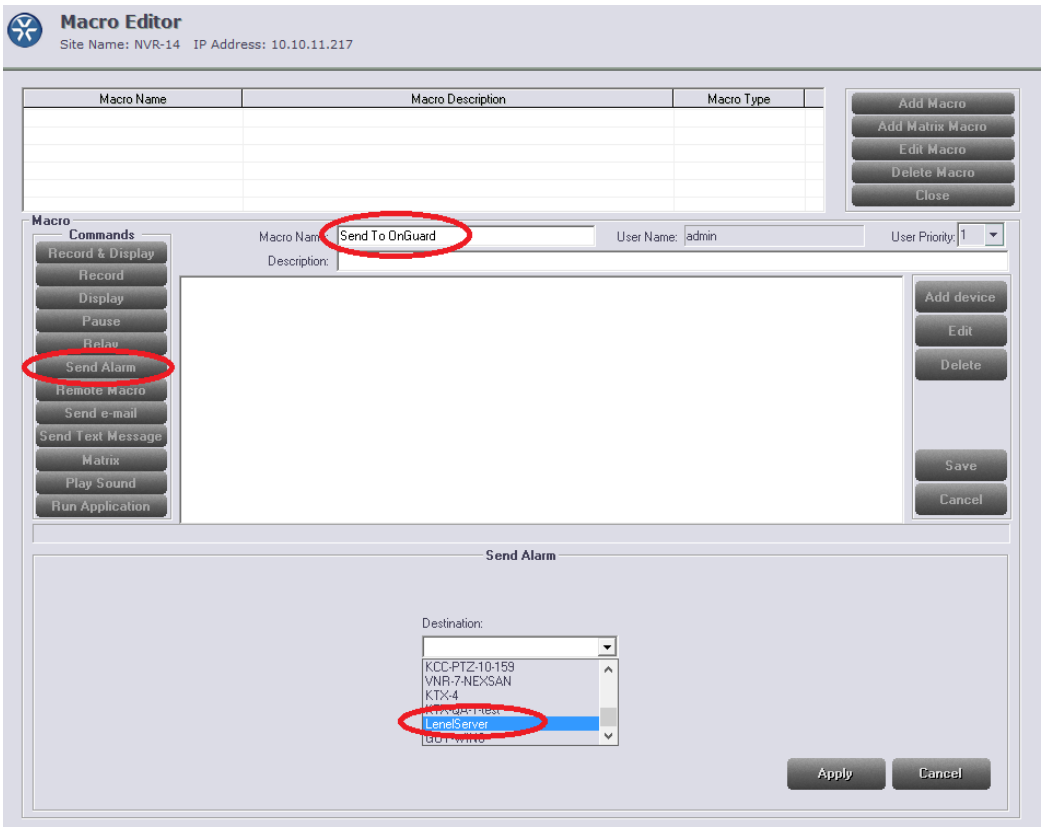
7. Configure a macro to send the alarms to the OnGuard server

    a. Click The 'Send Alarm' button

    b. Enter a macro name such as "Send to OnGuard"

    c. From the dropdown list pick the OnGuard server as the destination

    d. Click Apply and Save

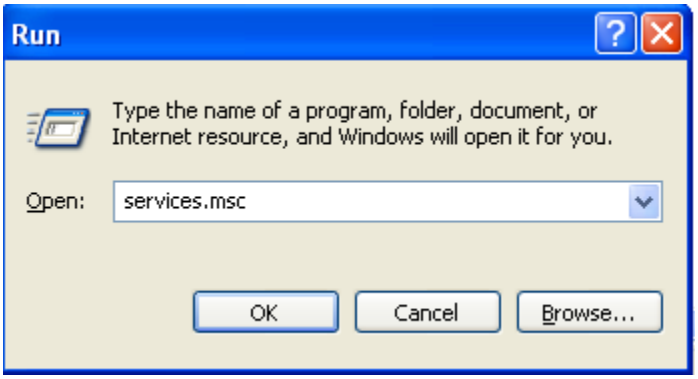


8. Repeat steps 1-7 for any NVR recording cameras that need to send alarms to OnGuard

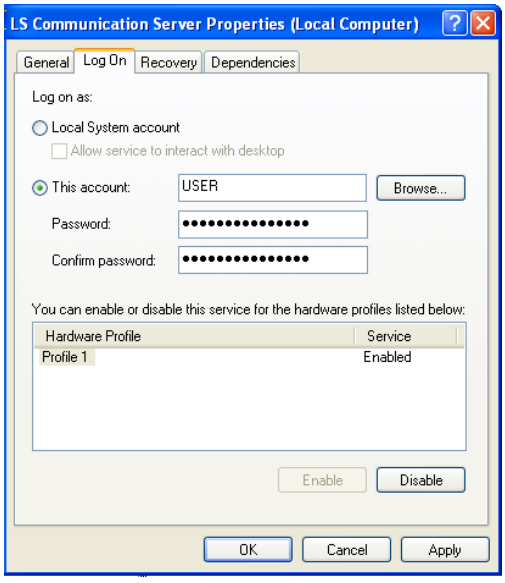
Appendix C – Running Communication server as a service

In order to run the LS Communication server as a service (not manually) it needs to be set to run with the local Windows user as described below:

1. Click the Windows Start button.
2. Select the “Run…” button.
3. Enter “services.msc” and click OK.



4. The “Services” window will open.
5. Right click on the “LS Communication Server” and select Properties.
6. Select the “Log On” tab.
7. Select the “This account” radio button.



8. Enter the user name and password of the user logging in to Windows and working with the OnGuard GUI.
9. Run the “LS Communication Server” service.