NUUO[®]

Central Management System

Software Installation Guide

Ver. 2.1.0.150430.001

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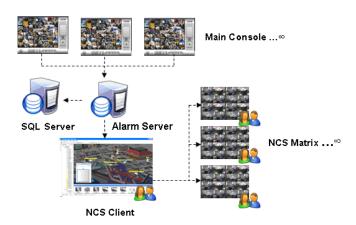
System Introduction

The NUUO Central Management System (NCS) is a powerful system which brings traditional central management systems out of the control room through Internet access. The network-based key operation system can manage unlimited combinations of analog and network cameras worldwide, via unlimited working stations in different locations. NCS is the universal solution for large scale projects.



Client/Server Architecture

The NCS System uses a client/server architecture to manage unlimited recording systems. These send events to the NCS Alarm Server. After filtering the events, the NCS Alarm server sends alarm logs of qualified events to an SQL Server (SQL database) and NCS Client systems. The NCS Matrix system is controlled by NCS Client users. The NCS Client system allows users in different locations to log in to the NCS Alarm server and, if they have the authority, to change the system configuration.



Definition of Terms:

Terms	Descriptions
NCS System	All components of NUUO Central Management system.
Recording Server	Front end servers of the NUUO Central Management system, consisting of NUUO Video Recording systems which send events to NCS Alarm Server.
SQL Server	Database of NUUO Central Management system, which backs up alarm logs.
NCS Alarm Server	Alarm Server of NUUO Central Management system, which filters events in order to send out alarms, and saves configuration of NCS system. Abbreviate NCS Server or Alarm Server .
NCS Client	Client end software of NUUO Central Management system, which is used to log in to the Alarm Server.
NCS Matrix	Video Matrix to view live video, controlled by NCS Client.

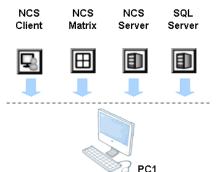
System Requirements

System Requirements

System Setup

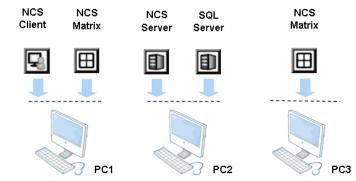
There are three scenarios for NCS system setup. Depending on customers' budget and the size of the project, customers can choose a suitable scenario. The system requirements for each scenario are detailed below.

Scenario A: Using one PC for all installed elements



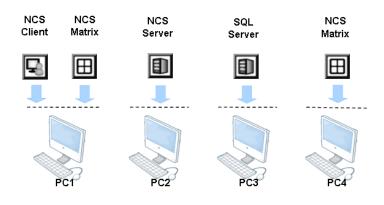
	PC1		
CPU	Intel Core 2 Quad Q9550 @ 2830MHz		
RAM	2 GB		
Hard Disk	250 GB or above Intel 945 or 965 chip (for single monitor) Intel P35/975 chip or nVidia nForce 650i chip (for multiple monitors)		
Mother-board			
Display	ATi X4350 or above, nVIDIA GeForce 9500series or above		
Ethernet	100 baseT or above, Gigabit LAN recommended		
OS	OS MS Windows XP Pro SP3 / Vista / 2003 / Win 7 / 2008 R2 / 2012 R2 / Win 8 / Win 8		

Scenario B: Using three PCs with NCS Client and NCS Matrix on PC1, NCS Server and SQL Server on PC2, and NCS Matrix on PC3



	PC1 PC2 PC3			
CPU	Intel Core 2 Quad Q6660 @ 2400MHz	Intel Core 2 Duo E4500	Intel Core 2 Quad Q6660 @ 2400MHz	
RAM	2 GB	2 GB	2 GB	
Hard Disk	250 GB or above	250 GB or above	250 GB or above	
Display	ATi X4350 or above	ATi X1600 or above	ATi X4350 or above	
Mother-board	Intel 945 or 965 chip (for single monitor) Intel P35/975 chip or nVidia nForce 650i chip (for multiple monitors)			
Ethernet	100 baseT or above, Gigabit LAN recommended			
OS	MS Windows XP Pro SP3 / Vista / 2003 / Win 7 / 2008 R2 / 2012 R2 / Win 8 / Win 8.1			

Scenario C: Using four PCs with NCS Client and NCS Matrix on PC1, NCS Server on PC2, SQL Server on PC3, and NCS Matrix on PC4



	PC1	PC2	PC3	PC4
CPU	Intel Core 2 Quad Q6660 @ 2400MHz	Intel Core 2 Duo E4500	Intel Core 2 Duo E4500	Intel Core 2 Quad Q6660 @ 2400MHz
RAM	2 GB	1 GB	1 GB	2 GB
Hard Disk	250 GB or above	250 GB or above	250 GB or above	250 GB or above
Display	ATi X4350 or above	ATi X1600 or above	ATi X1600 or above	ATi X4350 or above
Mother-board	Intel 945 or 965 chip (for single monitor) Intel P35/975 chip or nVidia nForce 650i chip (for multiple monitors)			monitors)
Ethernet	100 baseT or above, Gigabit LAN recommended			
OS	MS Windows XP Pro SP3 / Vista / 2003 / Win 7 / 2008 R2 / 2012 R2 / Win 8 / Win 8.1			

Multiple Monitor Configuration

For a PC running the NCS Client and NCS Matrix, it is suggested that three monitors are used: one to display the **Map** window and the **System Configuration** window, one to display the **Alarm Overview** window, and one to display the live video feed matrix. This enables efficient use of the system and saves hardware costs.

PCs using multiple monitors in this way should have a Intel P35/i975x motherboard which can support two display cards. Each display card should be the same model, to avoid hardware conflicts.

Installation

Installation

The NCS Installation CD contains the software you need to run the complete NCS system. If you are installing the system on multiple PCs as described earlier, install the appropriate software for each PC:

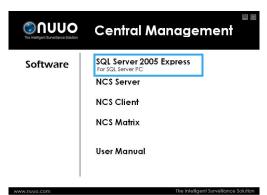
- For the PC running SQL Server, install SQL Server 2005 Express.
- For the central server PC, install NCS Server
- For client PCs, install NCS Client
- For PCs displaying video matrixes, install NCS Matrix.

The following sections describe installation of each element of the NCS system.

SQL Server 2005 Express

To install SQL Server 2005 Express:

1. Insert the NCS installation CD.



2. In the Welcome to NCS window, click SQL Server 2005 Express.



If you do not have **Microsoft** .Net Framework 2.0 and Windows Installer 3.1 installed, a message will appear. Download and install the application from the link in the message or from the toolbox directory of installed CD.

🖬 Microsoft SQL Server 2005 Setup 🛛 🛛 🔀
End User License Agreement
MICROSOFT SOFTWARE LICENSE TERMS
These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft
* updates,
* supplements,
* Internet-based services, and
C gccept the licensing terms and conditions
<u>P</u> rint Cancel

3. In the End User License Agreement dialog box, read the terms, check I accept the licensing terms and conditions, and then click Next.

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Microsoft SQL Server 2005 Setup		🖾 Microsoft SQL Server 2005 Setup	
Installing Prerequisites Installs software components required prior to installing SQL Server.		Installing Prerequisites Installs software components required prior to installing SQL Server.	
SQL Server Component Update will install the following components required for SQL Server Setup:	~	SQL Server Component Update will install the following components required for SQL Server Setup:	<u> </u>
Microsoft SQL Native Client Microsoft SQL Server 2005 Setup Support Files		✓ Microsoft SQL Native Client ✓ Microsoft SQL Server 2005 Setup Support Files	
Click Install to continue.		The required components were installed successfully.	
	el	Next > Can	cel

4. In the **Installing Prerequisites** dialog box, click **Install** to continue update, and then click **Next** to continue installation.

🚽 Microsoft SQL Server 20	05 Setup 🛛 🔀
	Welcome to the Microsoft SQL Server Installation Wizard
	Setup will help you install, modify or remove Microsoft SQL Server. To continue, click Next.
	< <u>B</u> ack. <u>N</u> ext > Cancel

5. In the Welcome to the Microsoft SQL Server Installation Wizard dialog box, click Next to install.

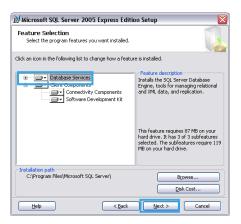
	Success	13 Total 13 Success	0 Error 0 Warning	
Deta	ails:			
_	Action	Status	Message	1
0	Minimum Hardware Requirement	Success		
0	Pending Reboot Requirement	Success		
0	Default Installation Path Permission Re	Success		
0	Internet Explorer Requirement	Success		ſ
0	COM Plus Catalog Requirement	Success		1
0	ASP.Net Version Registration Require	Success		1
0	Minimum MDAC Version Requirement	Success		1
	Edition Change Check	Success		1

6. In the System Configuration Check dialog box, click Next.

🔡 Microsoft SQL Server 2005 Express Edition Setup
Registration Information The following information will personalize your installation.
The Name field must be filled in prior to proceeding. The Company field is optional.
Ngme:
Mira
Company:
NUUO
V Hige advanced configuration options
Elep < Back Next > Cancel

7. In the Registration Information dialog box, enter your name and company, and then click Next.

Installation



8. In the Feature Selection dialog box, select Database Services, and then click Next.

😼 Microsoft SQL Server 2005 Express Edition Setup	×
Authentication Mode The authentication mode specifies the security used when connecting to SQL Server.	
Select the authentication mode to use for this installation.	
○ <u>Windows</u> Authentication Mode	
⊙ Mixed Mode (Windows Authentication and SQL Server Authentication)	
Specify the sa logon password below:	
Enter password:	
**** Confirm password:	
[*****]	
Help < Back Next >	Cancel

9. In the Authentication Mode dialog box, enable Mixed Mode option, and then enter and confirm a password.



10. In the Configuration Options dialog box, select Enable User Instances option, and then click Next.

Hicrosoft SQL Serve	r 2005 Expr	ess Edition	ı Setup	
Error and Usage Rep Help Microsoft improve and services.			5 components	
Automatically send Erro reporting server. Error 2005 when an error occ may unintentionally inclu	eports include i irred, your har	information re dware config	garding the conditio uration and other da	n of SQL Server Ita. Error reports
Automatically send Feat ncludes anonymous info software and services.	ure Usage data rmation about	for SQL Serv your hardwar	er 2005 to Microsofi e configuration and	t. Usage data how you use our
By installing Microsoft SQL : automatically send fatal ser Server. Microsoft uses erro information as confidential.	vice error repo	rts to Microso	ft or a Corporate Er	ror Reporting
Help		< Back	Next >	Cancel

11. In the Error and Usage Report Settings dialog box, you do not need to select any option. Click Next.

Hicrosoft SQL Server 2005 Express Edition Setup		
Ready to Install Setup is ready to begin installation.		
Setup has enough information to start copying the program files. To proceed, click Install. To change any of your installation settings, click Back. To exit setup, click Cancel.		
The following components will be installed:		
SQL Server Database Services (Database Services, Replication)		
The following components that you selected will not be changed:		
Client Components		
Help < Back Instal Cancel		

12. In the Ready to install dialog box, click Install.

inished	
inished	
inished	
inished	
inished	
	< Back Next >> (

13. In the Setup Progress dialog box, wait for installation finish, and then click Next.



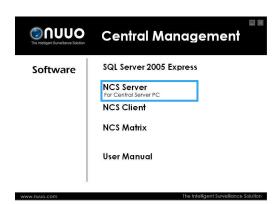
14. In the Completing Microsoft SQL Server 2005 Setup dialog box, click Finish

NCS Server

To install NCS Alarm Server:

1. Insert the NCS installation CD.

Installation



2. In the Welcome to NCS window, click NCS Server.

NUUO Central Managemen	NUUO Central Management Server - InstallShield Wizard 🛛 👔		
	Welcome to the InstallShield Wizard for NUU0 Central Management Server The InstalShield Wizard will install NUU0 Central Management Server on your computer. To continue, click Next.		
< Back News Cancel			

3. In the InstallShield Wizard dialog box, click Next to continuous.

JUO Central Management Server -	InstallShield Wiz	ard	2
License Agreement Please read the following license agreeme	nt carefully.		2
End User License Agreement ("EULA")			^
Do not install or use the software until yo terms. Permission to use the software is terms. Installation or use of the software the license terms. Acceptance will blind y contract with NUUO Inc.	conditional upon your by you will be deeme	agreeing to the license d to be acceptance of	
* SOFTWARE LICENSE AND LIMITED WAI This is an agreement between you, the e this software, you agree to become bour	nd user, and NUUO In		~
) accept the terms of the license agree		Erin	nt
tallShield			
	< <u>B</u> ack	<u>N</u> ext> Ca	ancel

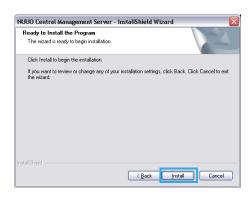
4. In the License Agreement window, read the terms, select I accept the terms of the license agreement, and then click Next.

NUUO Central Management Server - InstallShield Wizard	×
Customer Information	and a second
Please enter your information.	
Please enter your name and the name of the company for which you work.	
Iser Name:	
NUUO	
Company Name:	
NUUO	
< <u>B</u> ack Next>	Cancel

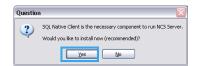
5. In the **Customer Information** window, enter your name and company, and then click **Next**.

NUUO Central	l Management Server - InstallShield Wizard	X
Setup Type Select the se	etup type to install.	4
Please selec	t a setup type.	
	Are program features will be installed. (Requires the most disk space.)	
O Custom	Select which program features you want installed. Recommended for advanced users.	
	< <u>Back</u> Next> Can	cel

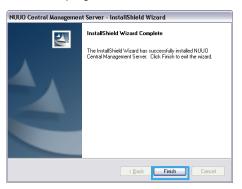
6. In the Setup Type window, select Complete, and then click Next.



7. In the InstallShield Wizard window, click Next.



8. Please click Yes to install SQL Native Client program.



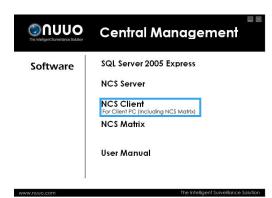
9. In the InstallShield Wizard Complete dialog box, click Finish.

NCS Client

To install NCS Client (include Matrix):

1. Insert the NCS installation CD.

Installation



2. In the Welcome to NCS window, click NCS Client.

NUUO Central Managemen	t Client - InstallShield Wizard	X
	Welcome to the InstallShield Wizard for NUUD Central Management Client The InstalShield Wizard will instal NUUD Central Management Client on your computer. To continue, click Next.	
< Back		

3. Complete installation as described in steps 3-7 of the To install NCS Alarm Server section on page 9.

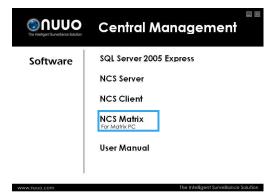
NUUO Central Management Client - InstallShield Wizard			
EI.	InstallShield Wizard Complete The InstallShield Wizard has successfully installed NUUD Central Management Client. Click Finish to exit the wizard.		
	< Back Finish Cancel		

4. In the InstallShield Wizard Complete dialog box, click Finish.

NCS Matrix

To install NCS Matrix:

1. Insert the NCS installation CD.



- 2. In the Welcome to NCS window, click NCS Matrix.
- 3. Complete installation as described in steps 3-4 of the To install NCS Client section on page 11.

Uninstalling NCS System

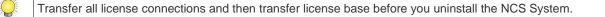
To uninstall SQL Server:

In the **Control Panel**, open **Add or Remove Programs**, select and click on **Remove** button to uninstall four SQL objects (Microsoft SQL Sever 2005, Native Client, Setup Support Files, VSS Writer).

👌 Add or Re	move Programs		_ 0
1	Currently installed programs: Show upgates	Sort by: Name	~
Change or Remove	📑 Microsoft SQL Server 2005	Size	211.00MB
Programs	Click here for support information.	Used	rarely
Add New	To change this program or remove it from your computer, click Change or Remove.	Last Used On Change	2008/2/25 Remove
Programs	Microsoft SQL Server Native Client	Size	4.00MB
	Microsoft SQL Server Setup Support Files (English)	Size	21.92MB
<u> </u>	All Microsoft SQL Server VSS Writer	Size	0.67MB
Add/Remove Windows	🔀 Microsoft User-Mode Driver Framework Feature Pack 1.0		

To uninstall the NCS system:

In the Start menu, point to All programs, point to NUUO Central Management Server/Client/Matrix, and then click Uninstall NCS System.



Getting Started with the NCS System

Getting Started with the NCS System

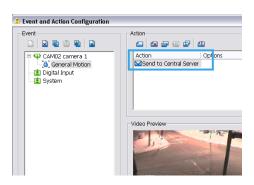
Main Console Configuration

To configure the Main Console:

1. Run MainConsole.exe.

Network Service	Network Service - 192.168.1.84 / 0.0.0.0			
e	Main Black / White List Performance			
Live Streaming	Client Count 0 Kill Client Kill All Clients			
	State IP Camera Bitrate (Kbps)			
Remote Playback				
3GPP Service				
Remote	Service Server Status: Running Start Stop			
Desktop	Options			
	Port: 5150 Default Maximum Connections: 16			
Central Management	Vise Default Web Server Port: 80			
	Save Log LiveServer.log			
	🔽 Use Original Video for Mega-pixel IP Camera			
	✓ OK X Can	el		

- 2. In Config, select Network Service, and set up the following services:
 - Live Streaming and Central Management. These services are essential to run the NCS system. Please Start these two services.
 - Remote Playback. This service enables recorded video viewing and remote playback. Ensure this service work, please also Start Recording Schedule to record video.
 - Remote Desktop. This service enables remote configuration of the main console.
- 3. Select Guard.



- 4. In the Event and Action Configuration window, configure alarm events and insert the action Send to Central Server for events that you want to appear on the NCS system.
- 5. Click **OK** to return to the main console.
- 6. In the Start Menu, select Start Smart Guard System to start detecting events.

SQL Server

To configure SQL Server:

1. In the Start menu, point to All programs, point to Microsoft SQL Server 2005, point to Configuration Tools, and then select SQL Server Configuration Manager.

🕼 SQL Server Configuration Manager			
File Action View Help			
SQL Server Configuration Manager (Local) SQL Server 2005 Services SQL Server 2005 Methods Configuration GOL Server 2005 Methods Configuration GOL Server 2005 Methods Configuration GOL Server 2005 Methods Configuration SQL Server 2005 Methods Configuration	Protocol Name Shared Memory Named Pipes TCP/IP	Status Enabled Disabled Disabled Disabled	Enable Disable
			Properties
			Help

2. In the SQL Server Configuration Manager window, select Protocols for CMALARMLOG, right-click TCP/IP and then select Enable to enable TCP/IP protocol.

Protocol	operties IP Addresses	2
E IP1		
Active		Yes
Enable	•	No
IP Add		192.168.1.84
	mamic Ports	0
TCP P	ort	1433
IP2		
Active		Yes
Enable		No
IP Add	ress	127.0.0.1
TCP Dynamic Ports 0		0
	TCP Port 1433	
🗄 IPAII		
	mamic Ports	0
TCP P	ort	1433
TCP Port		ancel Apply Help

- 3. Double-click TCP/IP, then in the TCP/IP Properties window select the IP Addresses tab.
- 4. Enter 1433 as the TCP port in IP1, IP2, and IPAII, and then click OK.

😽 SQL Server Configuration Manager				
File Action View Help ← → ● ● ● ●	0			
SOL Server Configuration Measure (Local) SQL Server 2005 Services SQL Server 2005 Services Configuration Configuration SQL Native Client Configuration	Name	State Runnir Stopp	Start M Start Stop Pause Decume Restart	Log
		-	Properties Help	_

- 5. In the SQL Server Configuration Manager window, select SQL Server 2005 Services, right-click SQL Server (CMALARMLOG), and then select Restart.
- 6. Ensure that any firewall allows access through port 1433.

NCS Alarm Server

To configure NCS Server:

1. In the Start menu, point to All programs, point to NUUO Central Management Server, and then select NCS Server.

NCS Ser	ver 🔀
(į)	Please specify the SQL server and sa password you want to connect to.
	ОК

2. In the NCS Server dialog box, click OK. This is only required the first time you start NCS server.

Getting Started with the NCS System

🛛 NCS Alarm Server (License: 30 - Trial)
Main Configuration
- SQL Server
Which SQL server do you want to connect to?
Server: (local) Connect
Password for sa: ••••
Comfirmed Password:
NCS Configuration Save, Load and Reset the all the central management configurations, including servers, maps, users, alarms and so on.
Save Load Reset NCS Configuration
Options
Alarm Image Path: D:NUUOINCSICMSEventImages
Run NCS Server when windows startup
OK K Cancel

- 3. The configuration of NCS Alarm Server.
 - In the **Configuration** tab of Central Server window, enter the IP address of the SQL Server, and then enter and confirm the password which sat when installed SQL Server. (see page 8)
 - Specify a URL at which to store all alarm images.
 - Select Run NCS Server when Windows starts up if you want NCS Server to startup automatically at Windows startup
- 4. In the Main table of this window, check the server has been Start and click OK.

The NCS Server must be executed before the NCS Client can be executed.

NCS Client

To configure and execute the NCS Client:

1. In the Start menu, point to All Programs, point to NUUO Central Management Client, and then select NCS Client.



- 2. In the Central Login window, enter the IP address and port of the NCS Server PC. The default port is 5180.
- 3. Enter a user name and, if required, a password. The default user name is *admin* and the default password is empty.
- 4. Click OK.

To activate software license key(s)

- 1. Open License Manager Tool in Help menu.
- 2. Select Activate tab, check the NCS system in On line network environment.
- 3. Insert the SN, SN file or dongle to activate license.
- 4. After software license is activated successfully, please restart NCS Client.

To start up NCS Client automatically:

1. In the Configuration menu, select NCS Client Setting.

arti	ip	
7	Enable Auto Startup	
L F	Enable Auto Login	
	User Account	admin
	Password	****
	Password Confirm	****

- 2. In the NCS Client Setting window, select Enable Auto Startup and Enable Auto Login
- 3. Enter a user account and, if required, a password.
- 4. Click OK.

NCS Matrix

To execute a single matrix display:

1. In the Start menu, point to All Programs, then point to NUUO Central Management Client or NUUO Central Management Matrix, and click NCS Matrix.

To configure the first matrix in a multiple matrix system:

- 2. Ensure that the PC is configured to use multiple monitors.
- 3. In the Start menu, point to All Programs, then point to NUUO Central Management Client or NUUO Central Management Matrix, and click NCS Matrix.

Matrix Instance D	ialog	×
Instance Name:	Default	•
Option	🗸 Start	X Cancel

4. Click on Option to open Matrix Instance Dialog.

Matrix Instance C	ption Dialog		Z
Instance Name:	Default		
Matrix Server Por	t 5210	Default	
Display Monitor:	#1 (1280 x	800)	•
Add	Delete	Update	•
Name	Port	Monitor	
Default	5210	1	1
✓	ОК	Cancel	

- 5. In the Matrix Instance Option Dialog window, select Default from list table.
- 6. Enter a matrix name, for example *Monitor 1*, in the **Instance Name** text box, leave the port at the default setting of 5210, select the **#1** monitor from drop-down list, and then click **Update** to update modification.

To configure the second and subsequent matrixes in a multiple matrix system:

- 1. In the **Matrix Instance Option Dialog** window, enter a matrix name, for example *monitor 2* in the **Instance Name** text box.
- 2. Enter port number 5220.
- 3. Select the **#2** monitor from drop-down list, and then click **Update** to update modification.

Getting Started with the NCS System

nstance Name: Watrix Server Por	t 5220	Default
Display Monitor:	#2 (1280 x	1024) 💌
Add	Delete	Update
Name	Port	Monitor
Monitor 1	5210	1
WOTHEOT 2	3220	2

- 4. To configure a third and a fourth monitor, repeat steps 1-3 naming the matrix instances as appropriate (for example *monitor3*, *monitor4*), entering the port number (5230 for a third monitor and 5240 for a fourth), and selecting the appropriate monitor.
- 5. Click **OK** to save all configuration of Matrix.

To execute a matrix in a multiple matrix system:

1. Ensure that the matrixes have been configured as described above.

atrix Instance D		
Instance Name:	Matrix 1	
	Matrix 1	
Option	Matrix 2	A Lancer

- 2. In the **Matrix Instance Dialog** window, choose the matrix you want in the drop-down list, and then click **Start** to start Matrix view.
- 3. Repeat steps 1 and 2 to execute each monitor.



- 1. When the device is a camera select Show Coverage Area to set the Range and Radian.
- 2. Click OK.
- 3. The device indicator will appear on the map. Drag it to the required location.

To drag a device indicator to a map from Server List:

- 1. Ensure that the map you want is displayed.
- 2. Click on the **Server List** window.
- 3. Directly drag a device to the desired location on the map.



If you are in **Map List** and click on a device which has already been added to a map, the map for that device will be displayed.

To remove a device indicator from a map:

- 1. Right-click the indicator.
- 2. Click Delete.

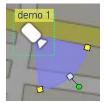
3. Click Yes in the confirmation window.

Edit Device Indicators

An indicator image can be rotated, mirrored, or changed. The image can also be set to refer to a different device than the one originally chosen.

To rotate a device indicator to a preset angle:

Once a device indicator has been added or dragged to a map, the indicator image can be rotated. This is useful to show which direction a camera is pointing.



- 1. Right-click the indicator or right-click the device form Map List.
- 2. Click Rotate and choose an angle (preset angle 0, 45, 90, 135, 180, 225, 270, or 315 degrees).



The radian, range, color and area of Camera Indicator can be set to show camera coverage.

To rotate a device indicator to an arbitrary angle:

- 1. Right-click the indicator or right-click the device form Map List.
- 2. Click Rotate Arbitrary.
- 3. Use the rotation handle to rotate the indicator to the desired angle, then click to fix the angle.
- 4. Click Rotate Arbitrary again to close this option.

To mirror a device indicator:

Indicator images can be mirrored (flipped horizontally) so that a mirror image is displayed. One use would be to show in which direction a camera is pointing. For example, a default image may show a camera pointing left.

- 1. Right-click the indicator or right-click the device form Map List.
- 2. Click Mirror.
- 3. Mirroring would then have it facing right.



The mirror command is a toggle. To un-mirror a previously mirrored indicator, follow steps 1 and 2 again.

To change a device indicator image:

- 1. Right-click the indicator or right-click the device form Map List.
- 2. Click Settings.
- 3. Select the indicator image you want, then click OK.

Getting Started with the NCS System

To remove a device indicator from a map:

- 1. Right-click the indicator or right-click the device form **Map List**.
- 2. Click Delete.
- 3. Click **Yes** in the confirmation window.

Cross Time Zone Scenario

The NCS System is easy to use across multiple time zones. The NCS Server and the SQL database record all alarm times in UTC (Coordinated Universal Time). This enables the NCS Server to put the alarms in order before they are sent to the NCS Client. The NCS Client converts the alarm times to the local time, to enable users to manage alarms efficiently.

If required, NCS Client users can access source devices' local times in the **Alarm Detail** window and the Alarm Overview window.

