



**SIMPLIFYING
COMPLEXITY**



iMONITOR[®]

USER GUIDE

V.2.0



Table of Contents

Copyright and Disclaimer	3
Introduction	4
iMonitor [®] Main Features	5
Getting Started	6
System Requirements	6
Quick Start	6
Best Practice	7
SQL Server Configuration	8
SQL Server Configuration Manager Configuration	8
iMonitor [®] Setup	9
iMonitor [®] Application	13
Adding Sites	14
Generating Reports	16
SNMP Settings	22
Adding Automated Rules	25
Maintenance plan	26

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Introduction

iMonitor is a software/hardware monitoring tool developed by 6SS software engineers in order to simplify the monitoring process of multi sites which is usually done by security officers.

The application allows the automation of alarms in case of any failure, shutdown, breach, unauthorized access, etc. on the hardware, software, and network sides.

iMonitor includes system dashboards with live monitoring data for all/each site such as sites' status with CPU and Memory levels, services and programs installed, sites configuration summary, camera operation and recording status, as well as customer ready reports including inventory report, device and recording report, recording servers report, and configuration report.

Reports and dashboards are fully customized in terms of layout, colors, display, or any requested visual report.

iMonitor[®] Main Features

- Server monitoring
- Environmental monitoring
- Network access monitoring
- Network devices monitoring
- Network switches monitoring
- High availability
- Alarms
- Reporting
- Intelligent video analytics (IVA) ability to monitor and monitoring/reporting

Getting Started

System Requirements

- Windows OS 8.1 or above
- iMonitor Application
- Dot net Framework V 4.7.2

Quick Start

- Read [Best Practice](#) section before installation.
- Microsoft SQL Server Management Studio installed.
- Named pipes and TCP/IP protocols must be enabled, and set TCP/IP properties to use the PC IPV4 and TCP port 1433.

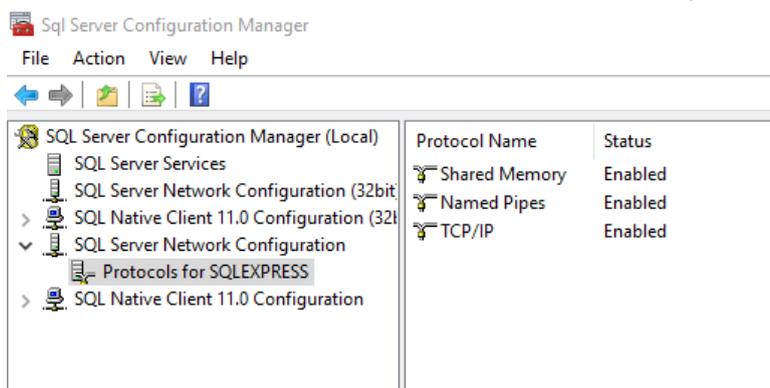
Best Practice

Sites Servers should be identical in terms of time, date format, Microsoft SQL server TCP/IP configuration.

SQL Server Configuration

SQL Server Configuration Manager Configuration

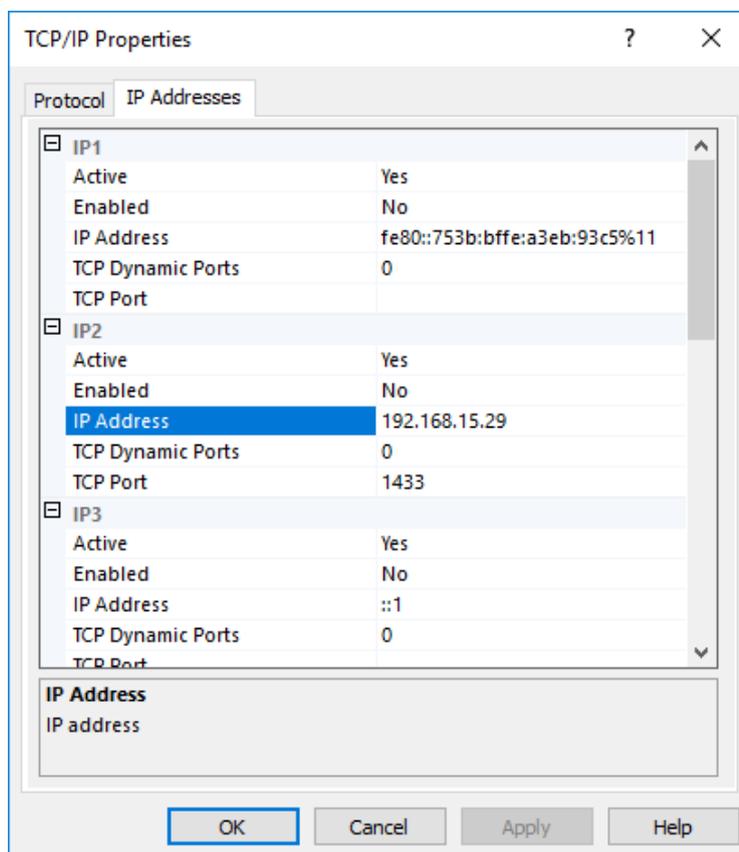
Open SQL server configuration manager expand [SQL Server Network Configuration](#) > [Protocols for SQLEXPRESS](#): enable [Named Pipes](#) and [TCP/IP](#).



Right click [TCP/IP](#) > [Properties](#): select [IP Addresses](#) tab.

In the [IP2](#) field set [IP Address](#) to the local IP address and [TCP Port](#) to 1433.

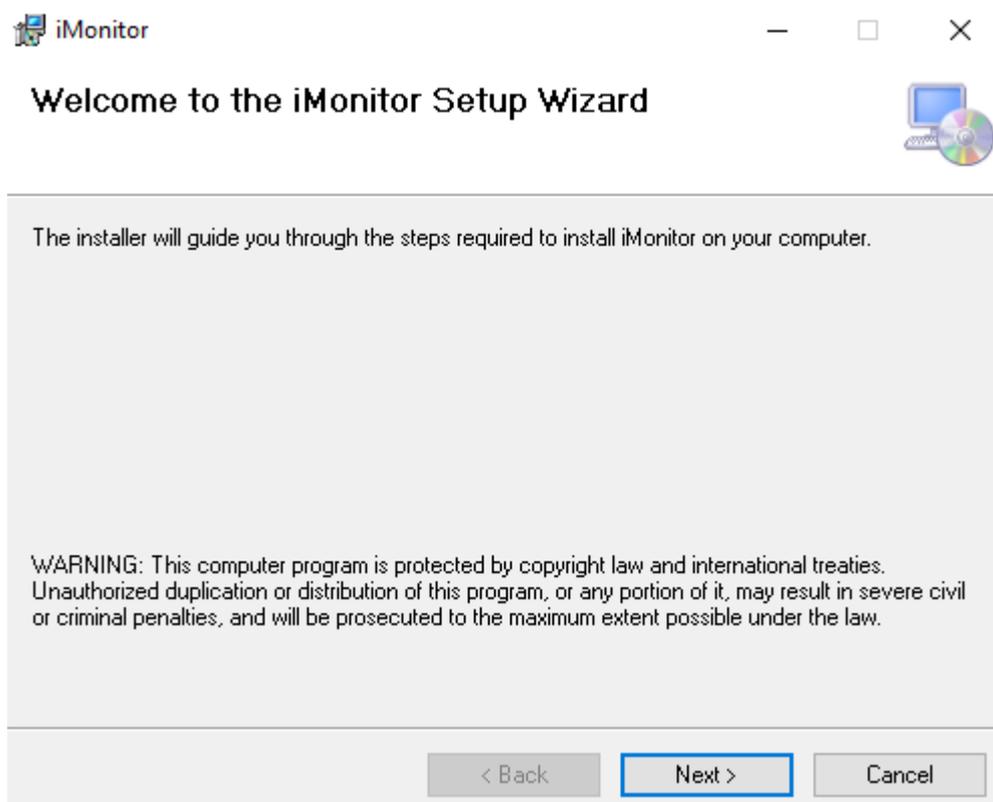
And in the [IPAll](#) field set [TCP Port](#) to 1433.

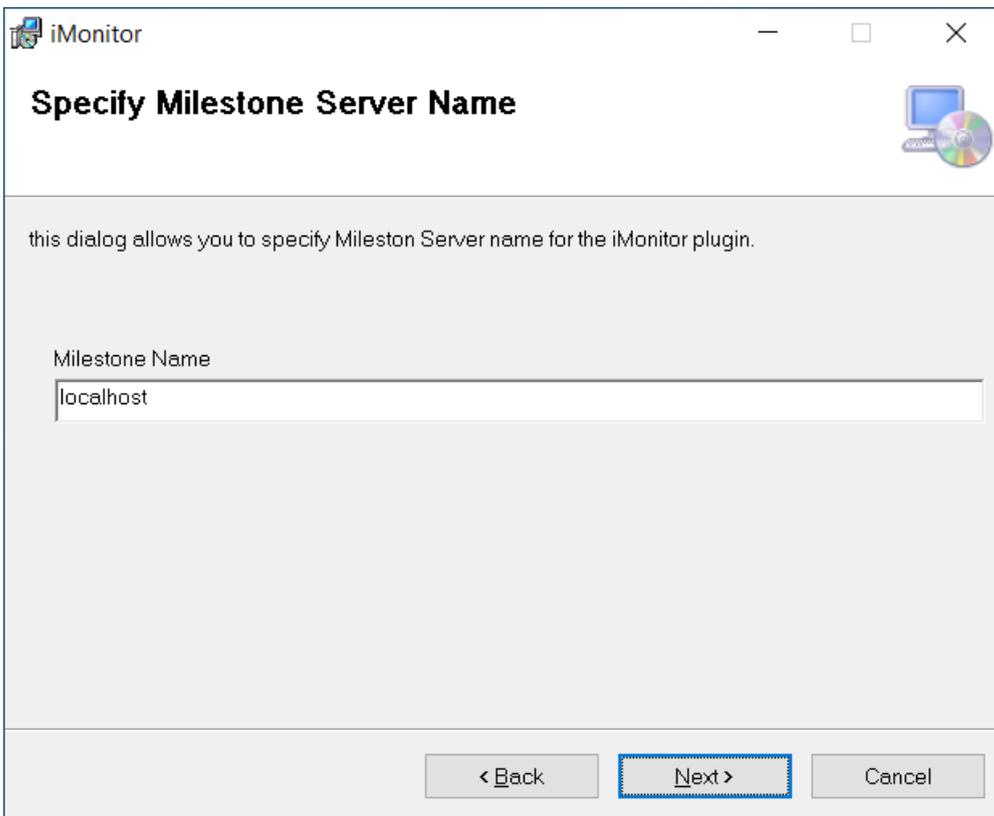
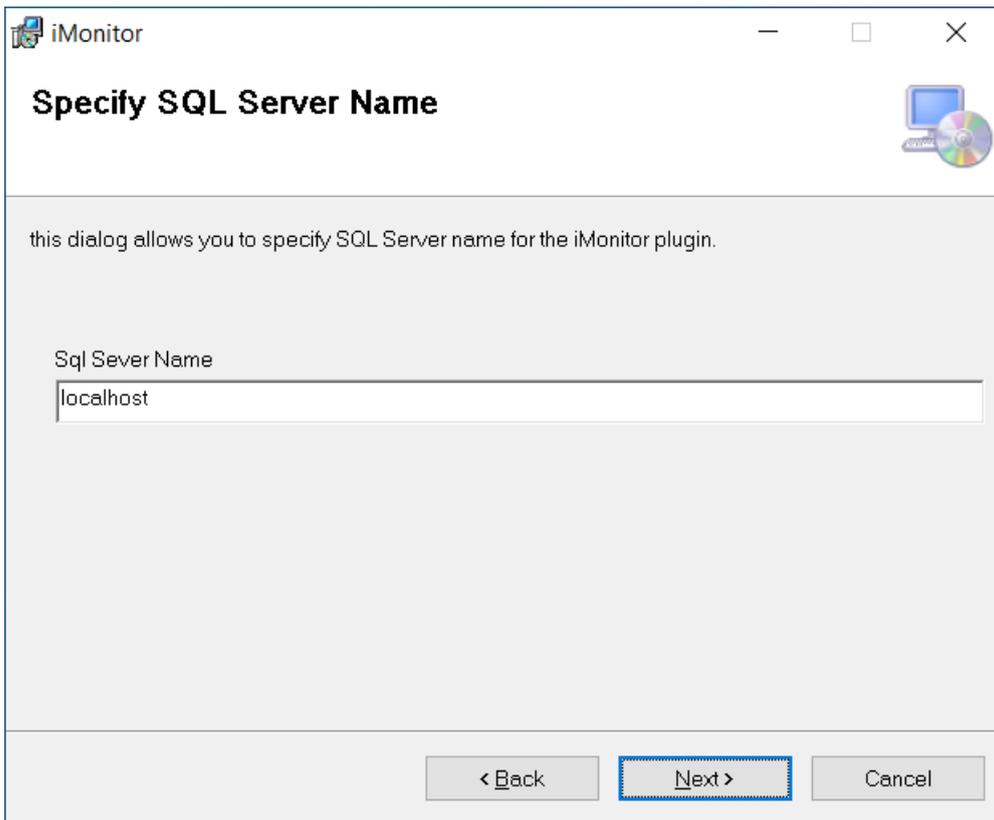


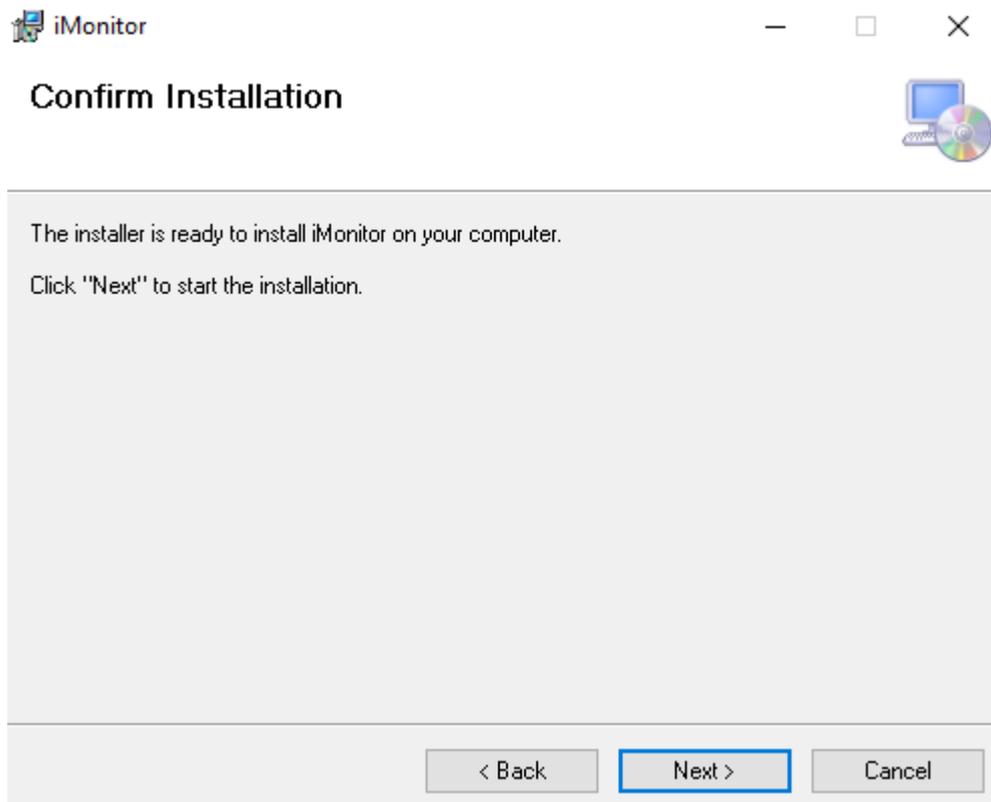
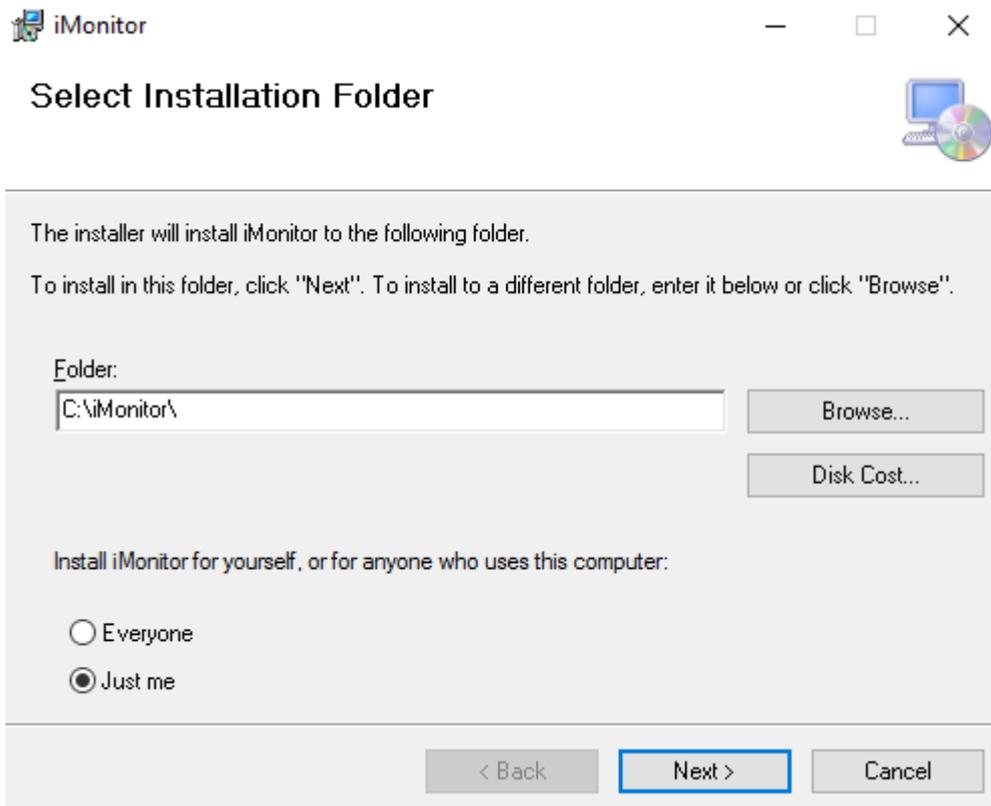
iMonitor® Setup



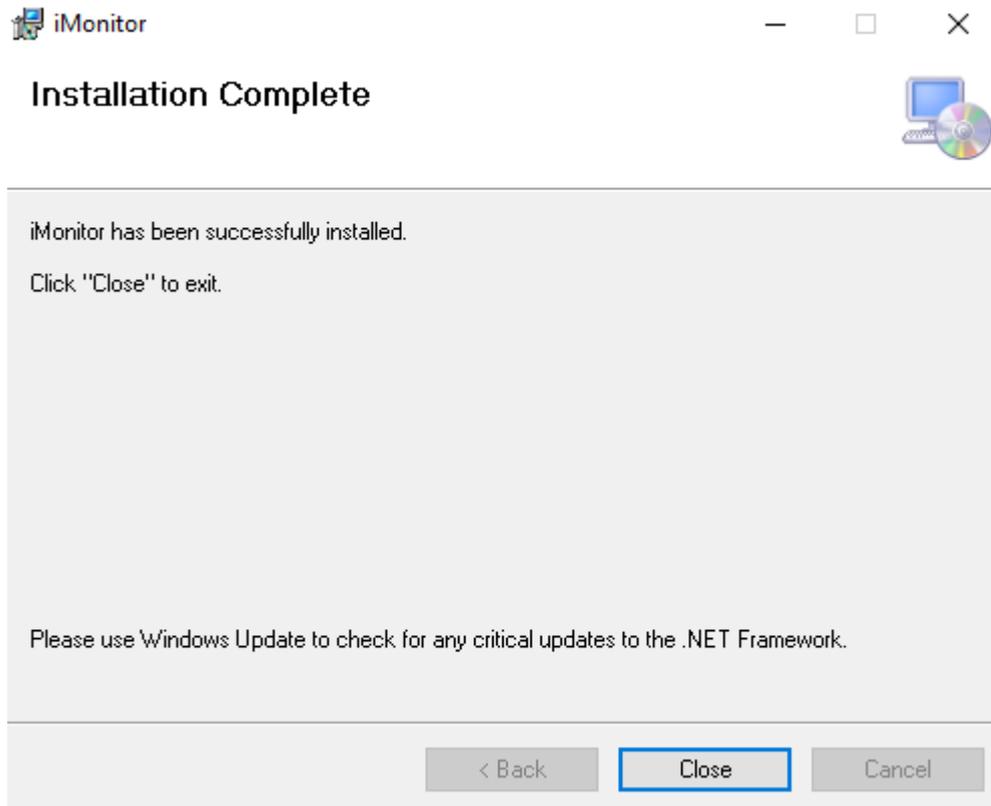
First open the copied file received and double click to start the installation. The setup wizard opens, click [Next](#) to continue.





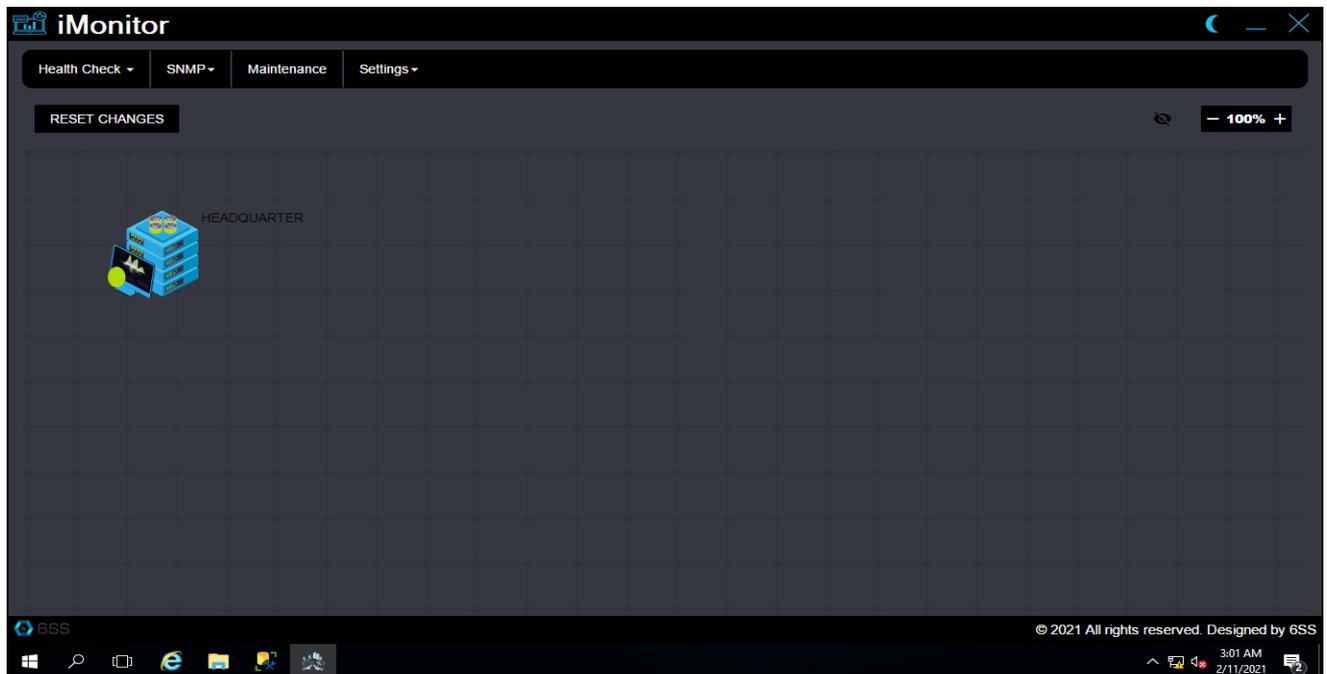


The wizard will guide you through the installation steps from the default installation folder to specifying the SQL server name used to install iMonitor service till the installation completion of the application along with a shortcut created on the desktop.



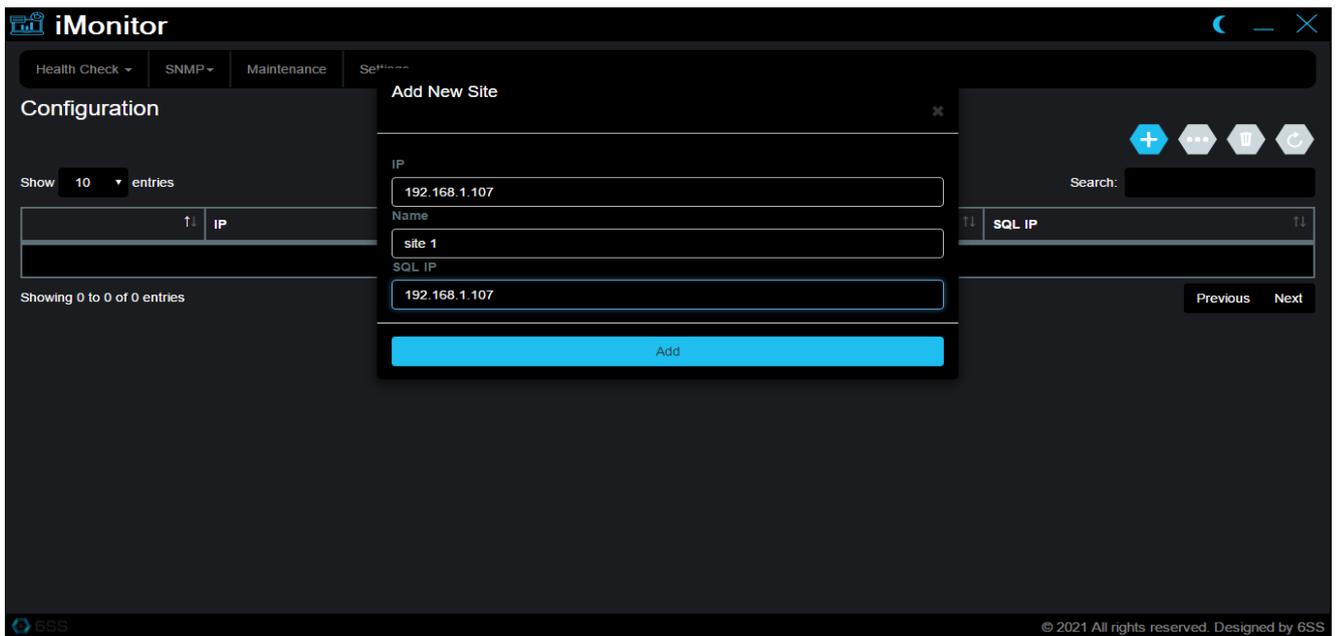
iMonitor® Application

Launch iMonitor application from the shortcut created on the desktop.



Adding Sites

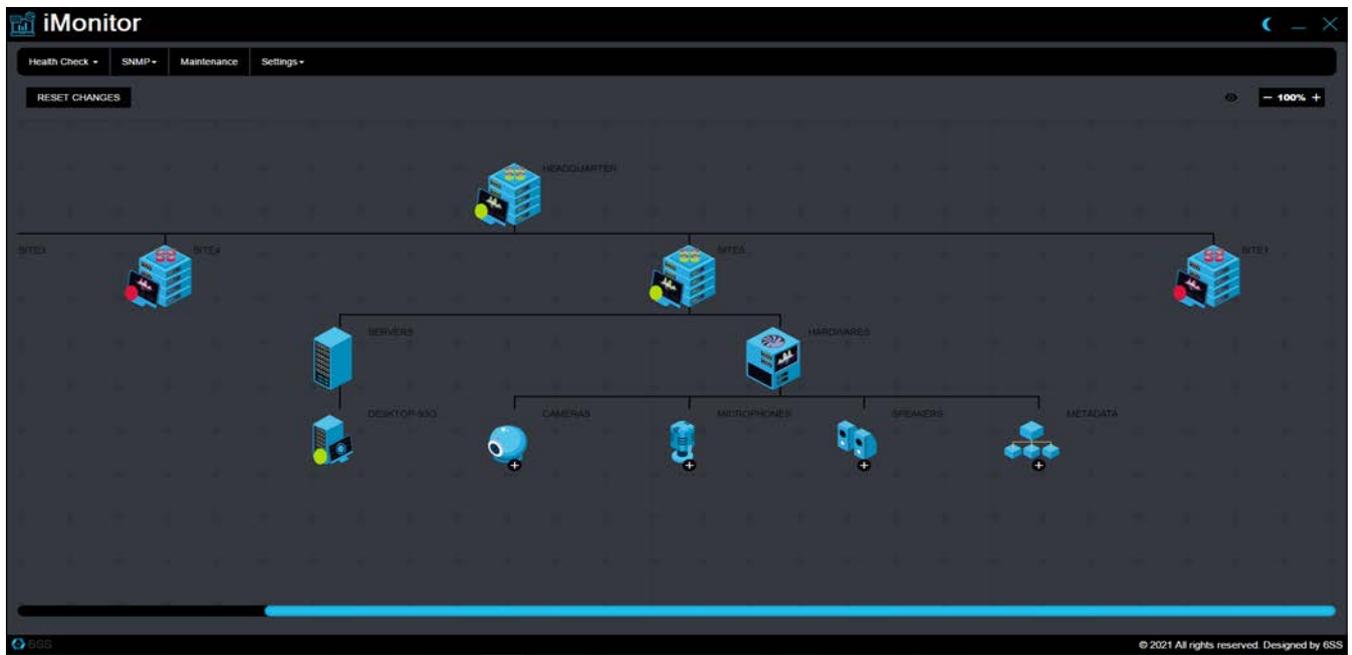
- To add Milestone sites select [Settings > iMonitor](#), you will get the list of available sites on a grid table, Click on **+** button to add new Site, Fill the server [IP Address](#), [Name](#), specify if it's [Main](#) or [Child](#) site, and the [IP Address](#) of the SQL Server > click [Add](#).



- Click [Health check > Home](#): you will see the sites you have added in a graphical tree with their status Up (green) / Down (red).



- Click + on each site icon to see all servers and devices (Cameras, Microphones, Speakers...) in each site with their status.

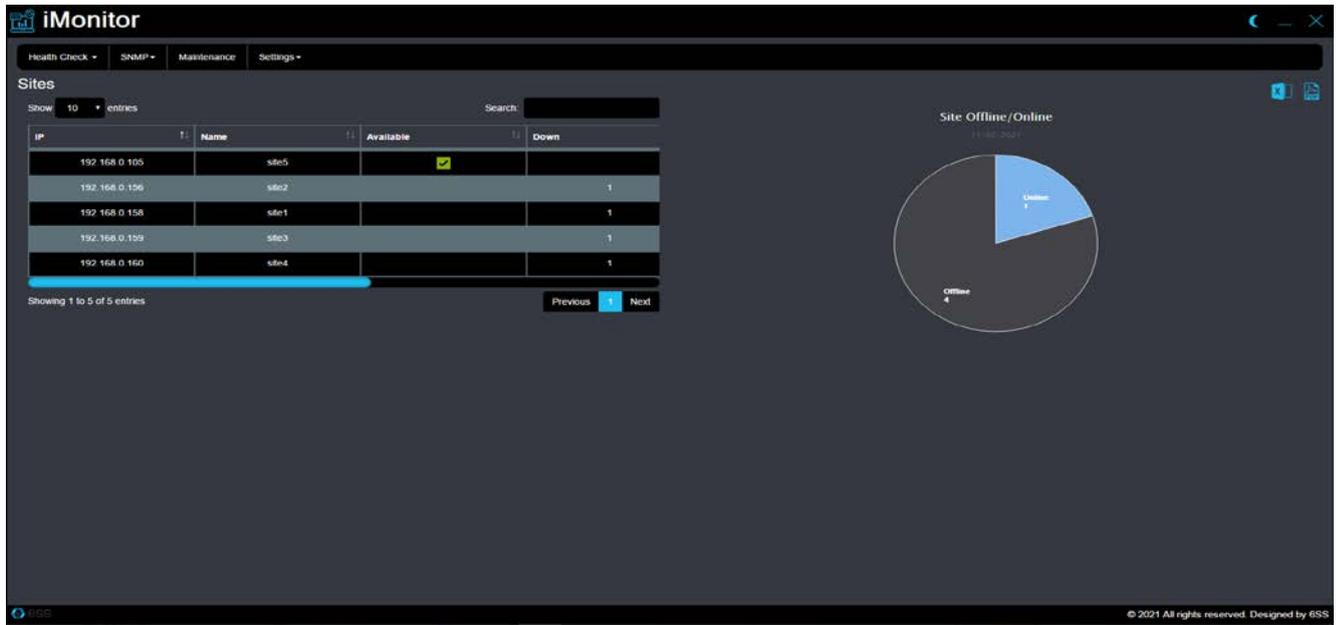


- Click **Health Check > Status**: you have 3 options (All, Online, Offline) to filter the tree to show active or inactive sites.

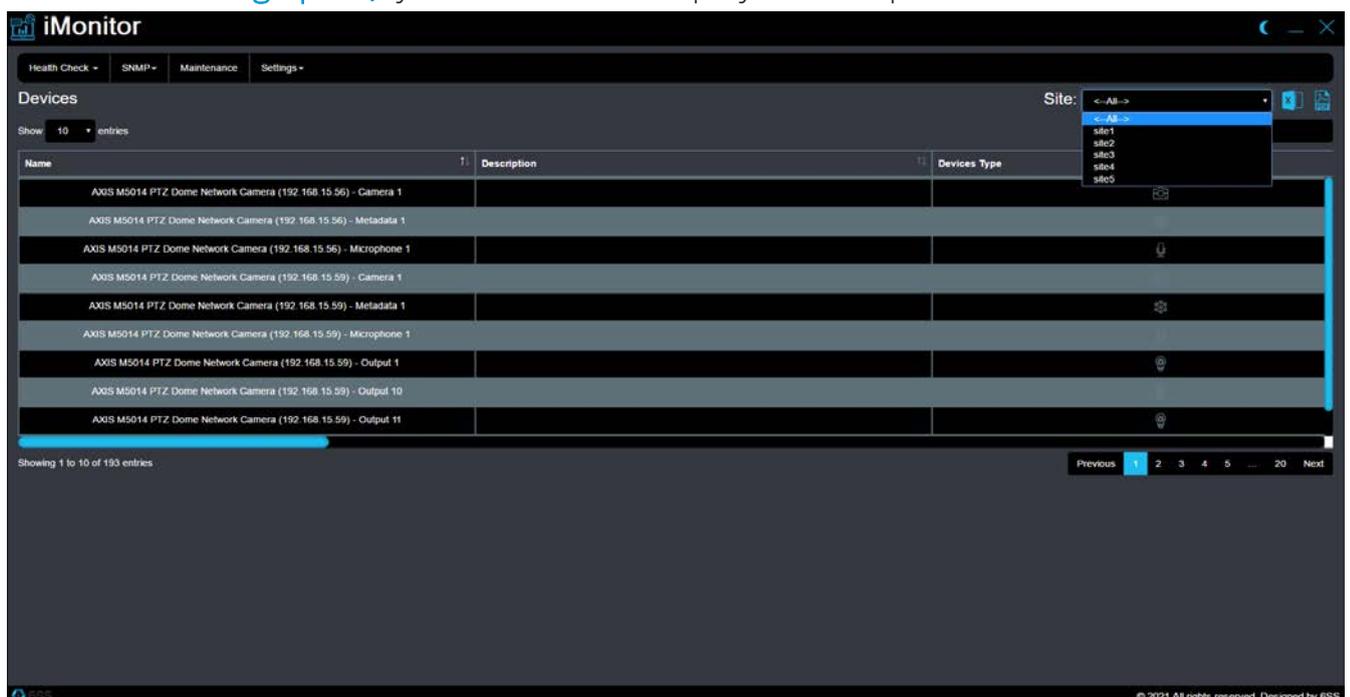


Generating Reports

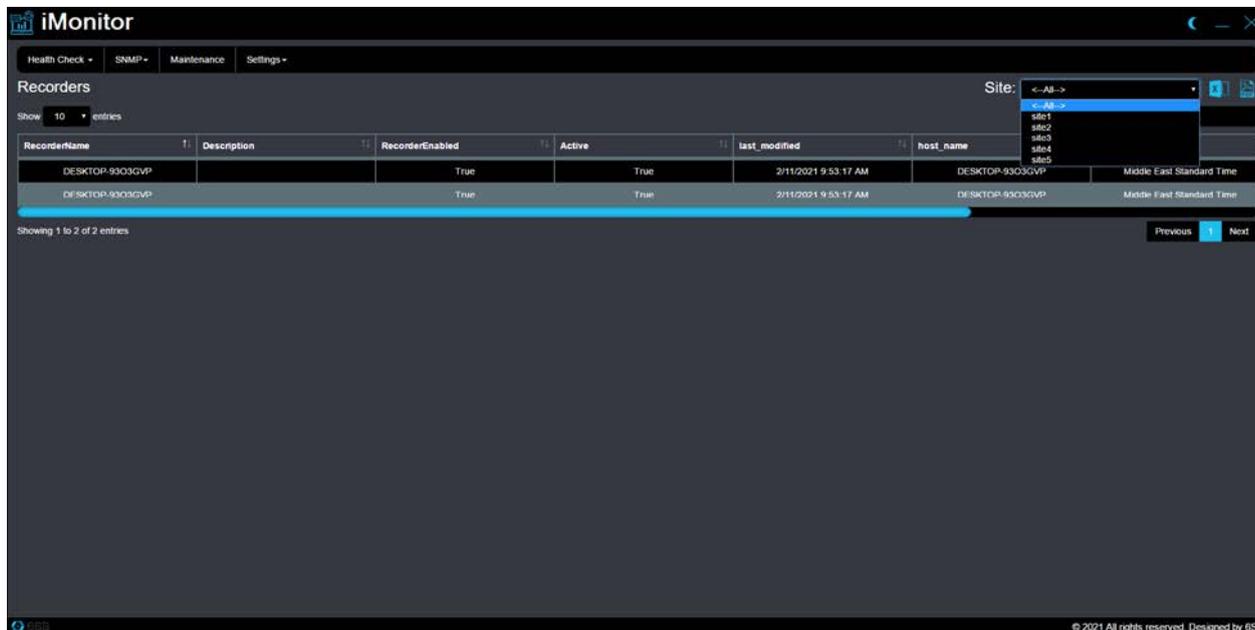
- Click [Health Check > Reports > Sites](#), you will get overview about the sites: grid displays sites information ([IP, Name, and Availability](#)) and pie chart displays online/ offline sites statistics.



- Click [Health Check > Reports > Devices](#), you will get overview about the devices: grid displays Devices information ([Name, Description, type, URL, Mac Address, enabled, Hardware name, Recorder name, Detected model, Login ID, Storage name and storage path](#)), you can filter to display devices per site.

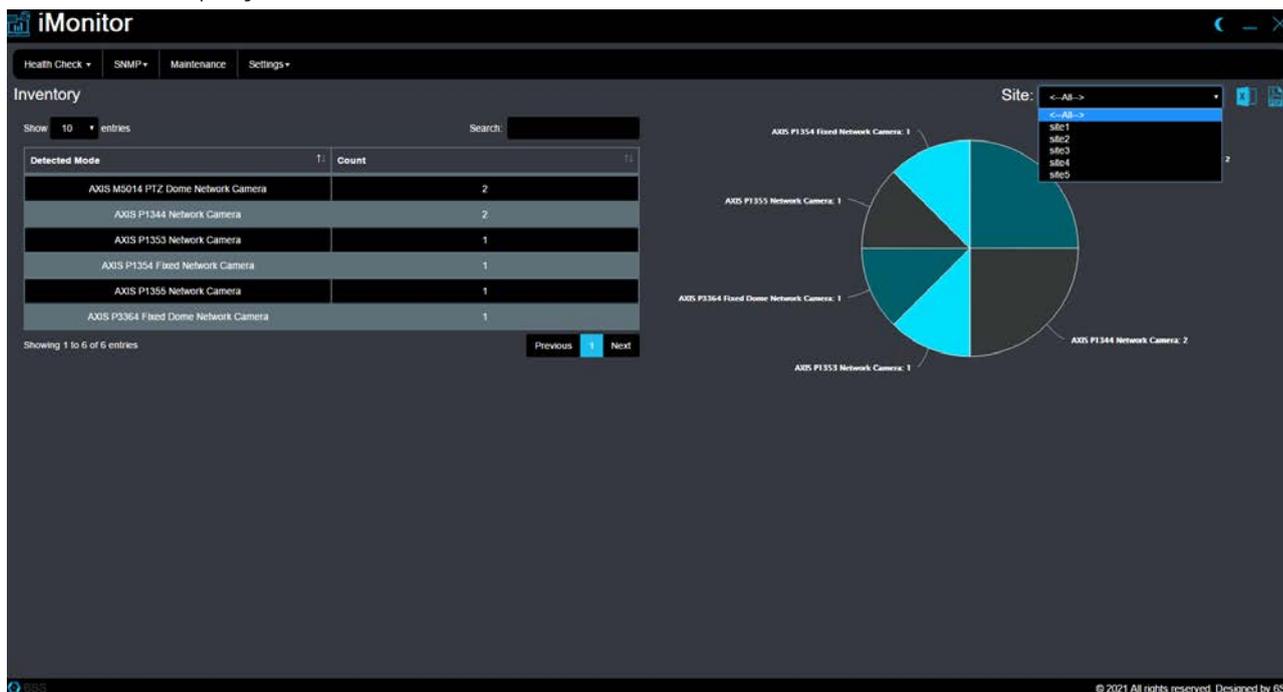


- Click [Health Check > Reports > Recording](#), you will get overview about the Recording servers: grid displays Recording servers information ([Name](#), [description](#), [enabled](#), [Active](#), [Last modification date](#), [host name](#), [time zone](#), [Multicast server address](#), [Driver name](#)), you can filter to display Recordings per site.

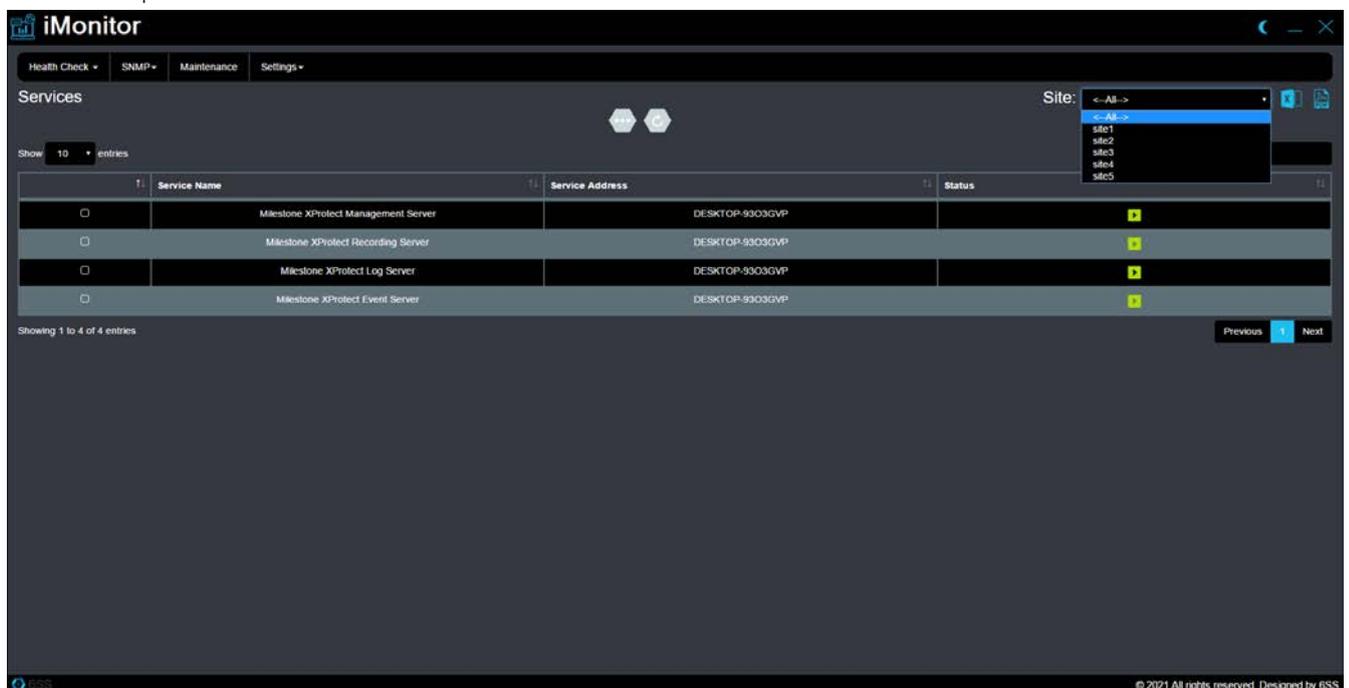


- Click [Health Check > Reports > Inventory](#), you will get overview about the devices' inventories: grid displays inventories information ([Detected mode](#), [devices number](#)), you can filter to display inventories per site,

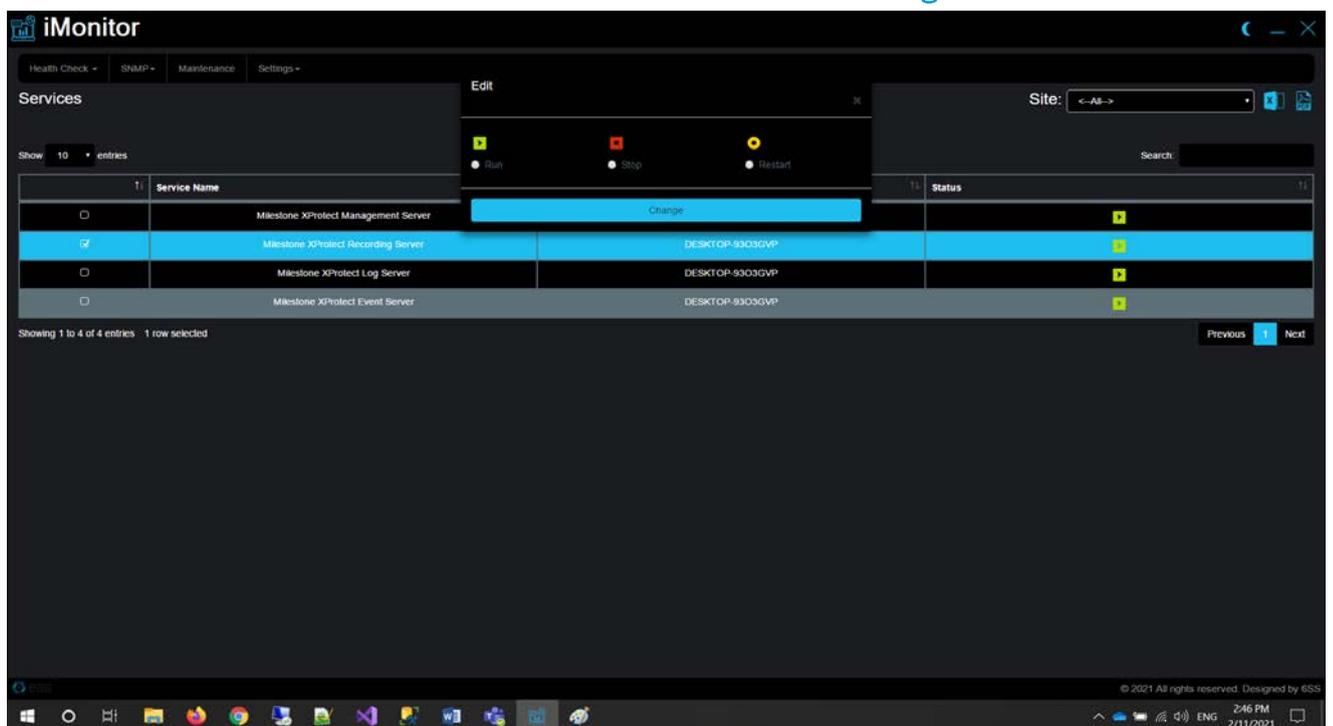
Pie chart displays statistics about the inventories.



- Click [Health Check > Reports > Services](#), you will get overview about the Services and its status (running, stopped or pending): grid displays services information ([Service name](#), [Service address](#) and [status](#)), you can filter to display services per site.



- To change service status, select the service check box on the grid and press on the ... button above > select the new status and click [Change](#).



- Click **Health Check > Reports > Camera**, you will get overview about the Cameras:
 - Operation: grid displays cameras operation information (**Camera name, operations, and operation time**) and pie chart displays statistics about **operating / not operating** camera.

The screenshot shows the iMonitor application interface. The top navigation bar includes 'Health Check', 'SNMP', 'Maintenance', and 'Settings'. The main content area is titled 'Cameras' and features three tabs: 'Camera Operation' (selected), 'Camera Recording', and 'Camera Enabled'. A 'Site:' dropdown menu is set to 'site1'. The 'Camera Operation' section displays a table with the following data:

Source Name	Operation	Hours	Hours
AXIS M5014 PTZ Dome Network Camera (192.168.15.56) - Camera 1	Not Operating		Not Operating since 128 hour(s)
AXIS M5014 PTZ Dome Network Camera (192.168.15.59) - Camera 1	Not Operating		Not Operating since 128 hour(s)
AXIS P1344 Network Camera (192.168.15.52) - Camera 1	Not Operating		Not Operating since 128 hour(s)
AXIS P1344 Network Camera (192.168.15.73) - Camera 1	Not Operating		Not Operating since 128 hour(s)
AXIS P1353 Network Camera (192.168.15.104) - Camera 1	Not Operating		Not Operating since 128 hour(s)
AXIS P1354 Fixed Network Camera (192.168.15.50) - Camera 1	Not Operating		Not Operating since 128 hour(s)

Below the table, it indicates 'Showing 1 to 10 of 16 entries'. To the right, a pie chart titled 'Camera Operation' shows 0% for 'Operating' and 100% for 'Not Operating'.

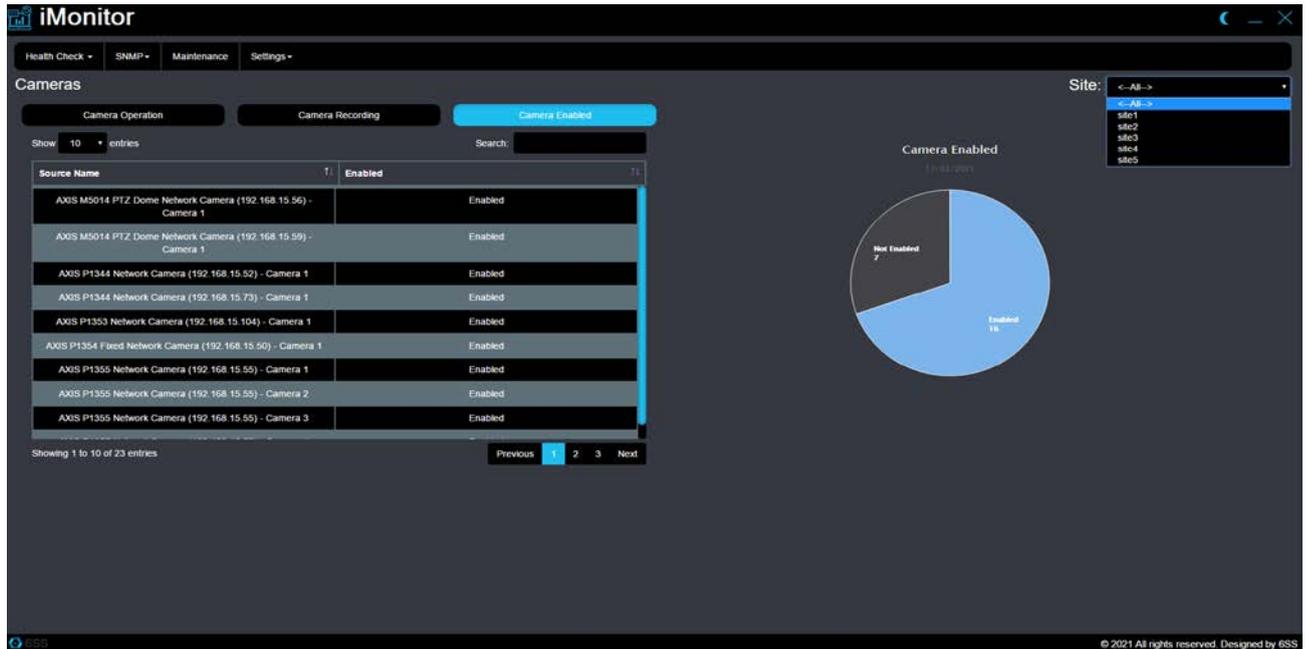
- Recording: grid displays cameras and its recording status (Recording / not recording) with pie chart displays recording statistics.

The screenshot shows the iMonitor application interface. The top navigation bar includes 'Health Check', 'SNMP', 'Maintenance', and 'Settings'. The main content area is titled 'Cameras' and features three tabs: 'Camera Operation', 'Camera Recording' (selected), and 'Camera Enabled'. A 'Site:' dropdown menu is set to 'site1'. The 'Camera Recording' section displays a table with the following data:

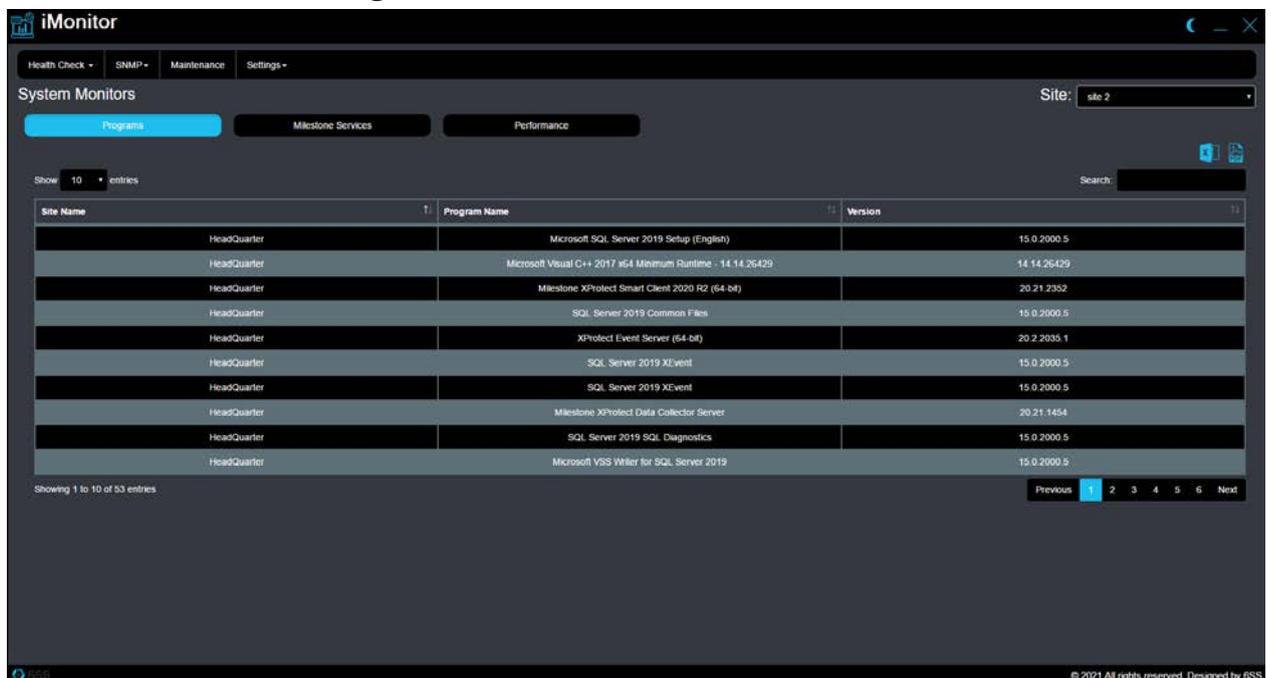
Source Name	Recording
DirectShow Virtual Video Server (0.0.0.1) - Camera 1	Recording

Below the table, it indicates 'Showing 1 to 1 of 1 entries'. To the right, a pie chart titled 'Camera Operation' shows 0% for 'Not Recording' and 100% for 'Recording'.

- Camera status: Lists the available cameras and show if it is enabled or disabled, and chart show it in statistics.

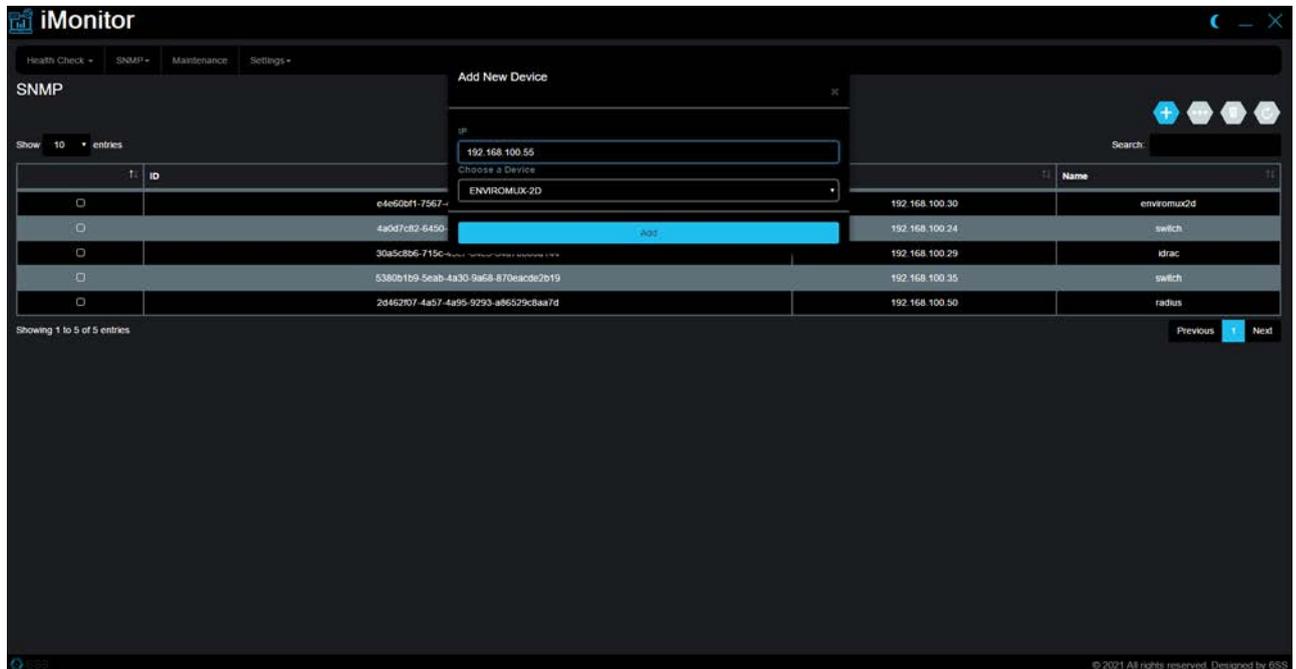


- Click [Health Check > Reports > System Monitor](#), click [programs](#) you will get overview about the Programs installed on the sites:



SNMP Settings

- Go to [Settings -> SNMP](#): you can add devices ([Enviromux-2D](#), [IDrac](#), [Switches](#), and [Radius servers](#)) which is configured to send SNMP message.

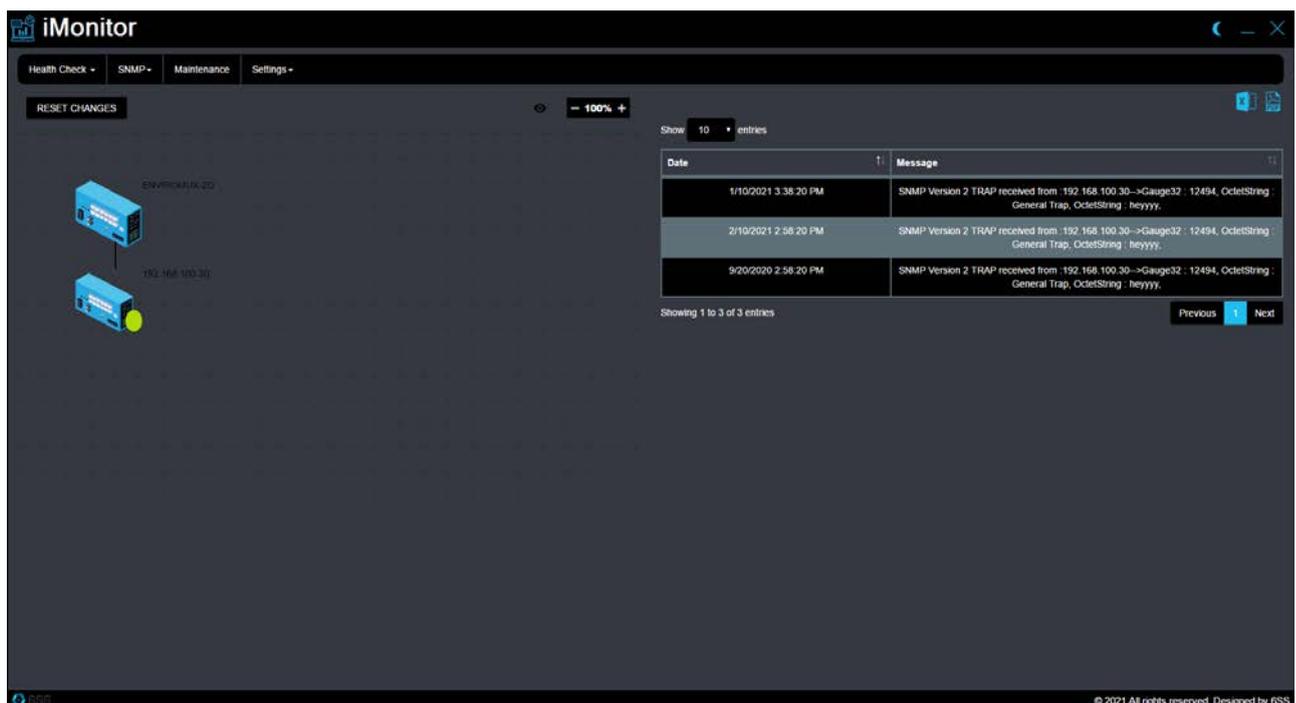


The screenshot shows the iMonitor application interface. At the top, there are navigation tabs: Health Check, SNMP, Maintenance, and Settings. The 'SNMP' tab is active. A modal window titled 'Add New Device' is open, showing an IP address of 192.168.100.55 and a device name of ENVIROMUX-2D. Below the modal, there is a table of existing devices:

ID	Name	IP
e4e50bf1-7567-	enviromux2d	192.168.100.30
4a5d7c82-6450-	switch	192.168.100.24
30a5c8b6-715c-	idrac	192.168.100.29
5380b1b9-5eab-4a30-9a58-870eacde2e19	switch	192.168.100.35
2d462707-4a57-4a95-9293-a86529c8aa7d	radius	192.168.100.50

The table shows 5 entries, with the first one highlighted. The interface also includes a search bar and navigation buttons for Previous and Next.

After adding the devices you can see the received SNMP messages from each device type on the [SNMP](#) tab.



The screenshot shows the iMonitor application interface with the 'SNMP' tab active. A 'RESET CHANGES' button is visible. On the left, there is a diagram showing two devices: ENVIROMUX-2D and 192.168.100.30. On the right, there is a table of received SNMP messages:

Date	Message
1/10/2021 3:38:20 PM	SNMP Version 2 TRAP received from :192.168.100.30-->Gauge32 : 12494, OctetString : General Trap, OctetString : heyyyy.
2/19/2021 2:58:20 PM	SNMP Version 2 TRAP received from :192.168.100.30-->Gauge32 : 12494, OctetString : General Trap, OctetString : heyyyy.
9/20/2020 2:58:20 PM	SNMP Version 2 TRAP received from :192.168.100.30-->Gauge32 : 12494, OctetString : General Trap, OctetString : heyyyy.

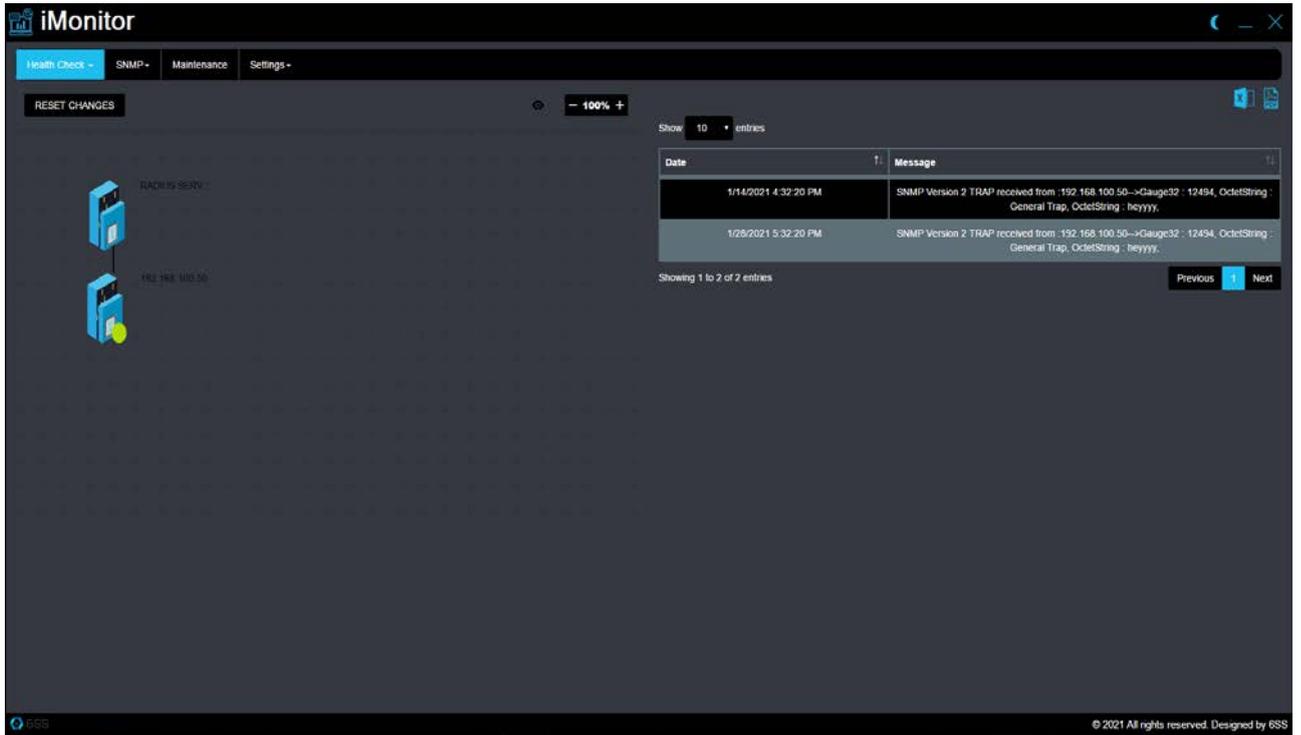
The table shows 3 entries, with the first one highlighted. The interface also includes a search bar and navigation buttons for Previous and Next.

The screenshot shows the iMonitor application interface. At the top, there are navigation tabs: Health Check, SNMP, Maintenance, and Settings. Below these is a 'RESET CHANGES' button and a zoom control set to 100%. The main area features a network diagram with two blue server-like icons. The top icon is labeled 'iDRAC' and the bottom one is labeled '192.168.100.29'. To the right, a table displays log entries. The table has two columns: 'Date' and 'Message'. There are two entries in the table, both showing 'SNMP Version 2 TRAP received from: 192.168.100.29->Gauge32 : 12494, OctetString : General Trap, OctetString : heyyyy'. The first entry is dated 1/12/2021 3:54:20 PM and the second is dated 2/3/2021 4:43:20 PM. Below the table, it says 'Showing 1 to 2 of 2 entries' and there are 'Previous' and 'Next' navigation buttons. The bottom of the screen shows the 6SS logo and copyright information: '© 2021 All rights reserved. Designed by 6SS'.

Date	Message
1/12/2021 3:54:20 PM	SNMP Version 2 TRAP received from: 192.168.100.29->Gauge32 : 12494, OctetString : General Trap, OctetString : heyyyy.
2/3/2021 4:43:20 PM	SNMP Version 2 TRAP received from: 192.168.100.29->Gauge32 : 12494, OctetString : General Trap, OctetString : heyyyy.

The screenshot shows the iMonitor application interface. At the top, there are navigation tabs: Health Check, SNMP, Maintenance, and Settings. Below these is a 'RESET CHANGES' button and a zoom control set to 100%. The main area features a network diagram with a central blue server icon labeled 'SWITCH' connected to two other blue server icons. The left server is labeled '192.168.100.24' and the right one is labeled '192.168.100.28'. To the right, a table displays log entries. The table has two columns: 'Date' and 'Message'. There are three entries in the table, all showing 'SNMP Version 2 TRAP received from: 192.168.100.24->Gauge32 : 12494, OctetString : General Trap, OctetString : heyyyy'. The first entry is dated 1/15/2021 3:45:20 PM, the second is dated 12/12/2020 1:32:20 PM, and the third is dated 2/11/2021 3:43:20 PM. Below the table, it says 'Showing 1 to 3 of 3 entries' and there are 'Previous' and 'Next' navigation buttons. The bottom of the screen shows the 6SS logo and copyright information: '© 2021 All rights reserved. Designed by 6SS'.

Date	Message
1/15/2021 3:45:20 PM	SNMP Version 2 TRAP received from: 192.168.100.24->Gauge32 : 12494, OctetString : General Trap, OctetString : heyyyy.
12/12/2020 1:32:20 PM	SNMP Version 2 TRAP received from: 192.168.100.24->Gauge32 : 12494, OctetString : General Trap, OctetString : heyyyy.
2/11/2021 3:43:20 PM	SNMP Version 2 TRAP received from: 192.168.100.24->Gauge32 : 12494, OctetString : General Trap, OctetString : heyyyy.



Adding Automated Rules

- Go to [settings -> automated rules](#), when selecting a [category](#) (device, hardware, recording servers, passwords and other) you will get list of predefined rules for each category.

Select the rules you want to add and the site from the sites dropdown list and click [Add Rules](#).



Maintenance plan

- Go to the **maintenance** tab, select **start** and **end date** to filter maintenance plan and click **search**, you will get a list of months, click each month to see the maintenance plan during this month on a calendar.

Maintenance work in Green color is executed or will executed in the future, red color is for plan not executed.

The screenshot displays the iMonitor application interface. At the top, there are navigation tabs: Health Check, SNMP, Maintenance, and Settings. Below these, there are input fields for 'From' (01/29/2020) and 'to' (02/11/2021), and a search button. A list of months is shown on the left, with 'December' selected and highlighted in red. The main area is a calendar for 'DECEMBER 2020'. The calendar grid shows dates from 29 to 31. Maintenance tasks are listed on specific dates: '1a local check cables' on Dec 14, '1a local check cables' on Dec 15, '1a Libanon-clean camera' on Dec 31, and '1a Libanon-clean camera' on Dec 31. The tasks are color-coded: green for executed or future, and red for not executed.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14 1a local check cables	15 1a local check cables -4 more	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31 1a Libanon-clean camera	31 1a Libanon-clean camera	
31 1a-122 Libanon-check cables 1a-270 Libanon-check cables						

About 6SS

6SS was founded in 2013 with Headquarters in Minnesota, USA. 6SS is a modern video surveillance and security systems company that provides complete security solution that you need and deserve, from Software to Hardware to Professional Services and Training.

All our products will integrate fully with the Milestone VMS. ◆

Any Questions?

Please reach out to us if you have any question or inquiry
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