

Mantis

Installation manual

Version 2.0

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Introduction

This installation and user manual describes the steps to install and use “Mantis” behavior analysis system.

Pre-Requisites

The installation process requires the below steps:

- i. .net Framework 4.7.2 installed to be able to use the plugin.
- ii. Configuration of SQL server 2016.

Install .net Framework 4.7.2

Download and Install .net Framework by using the following link:

<https://go.microsoft.com/fwlink/?linkid=863265>

.Net Framework should be installed on every Smart client machine that is going to host “Mantis”.

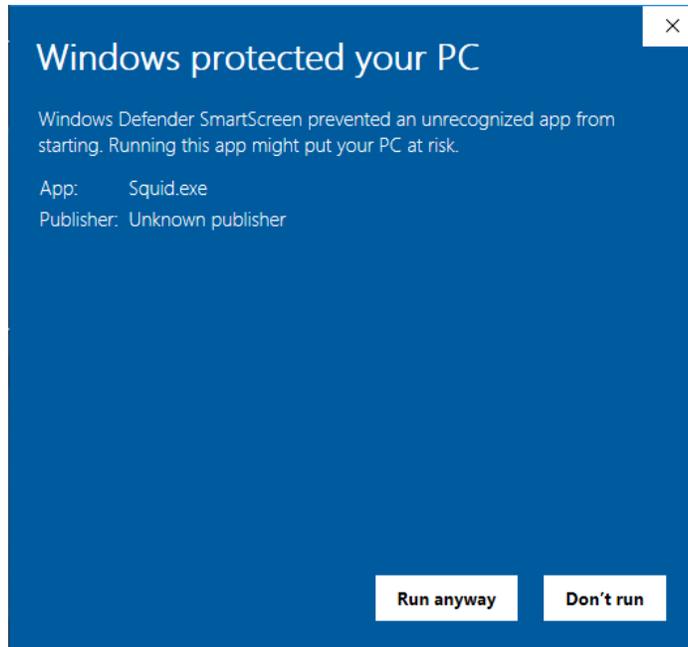
MANTIS Installation

To start the installation, right click MANTIS.exe installer and click on “run as Administrator”.

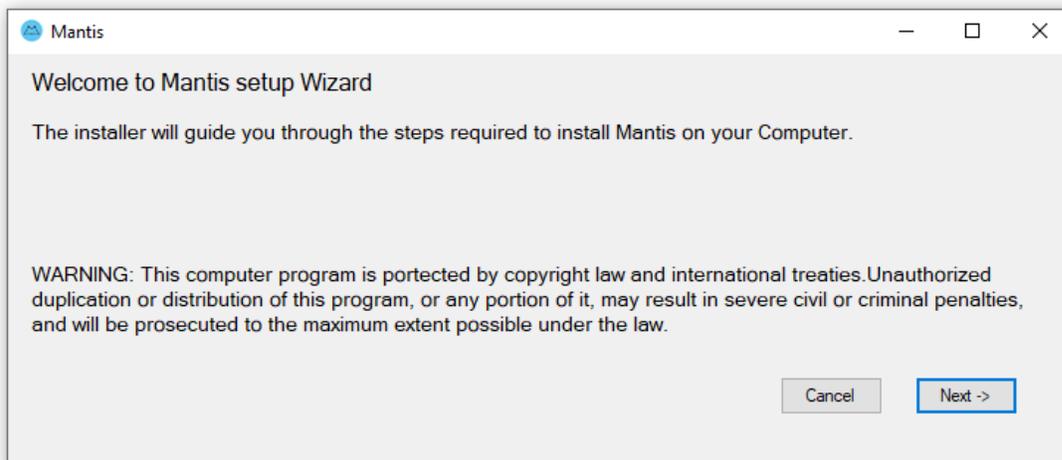
On the smart screen window, click on “more info”



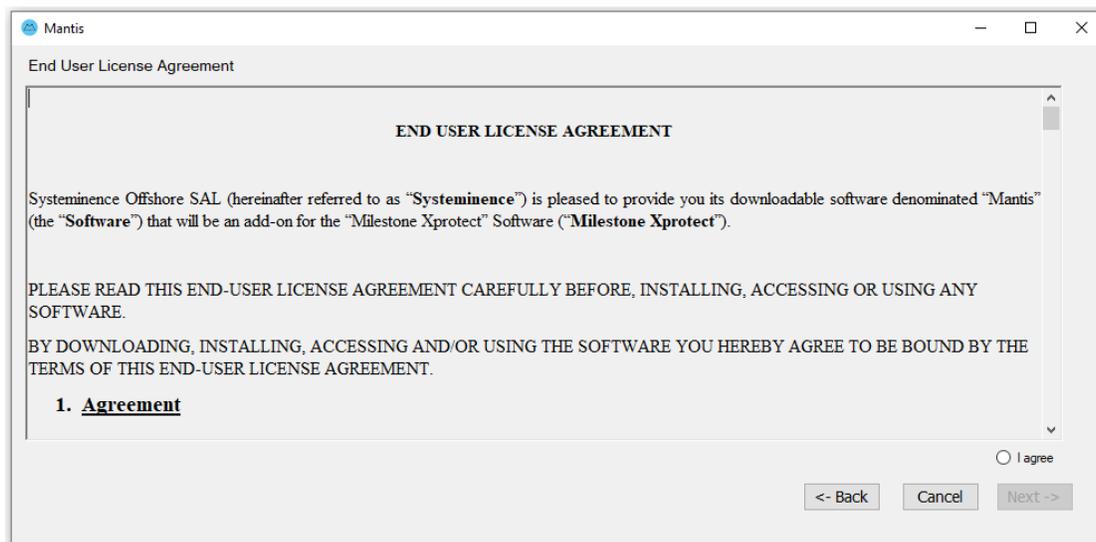
On the next smart screen window, click on “run anyway”



On the welcome screen, click “next”



After reading the License Agreement, click “I agree” and click “Next”



In the next window, you can choose either to install:

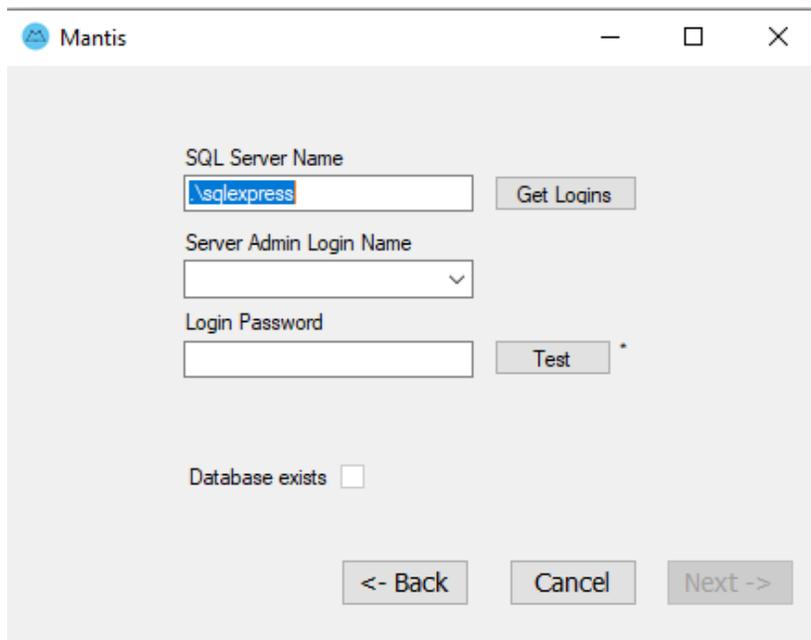
- 1- **MANTIS Smart Client plugin:** This plugin is used by the Supervisor to manage and schedule sessions and for operators to run all the scheduled sessions.
- 2- **MANTIS Management Client plugin:** This plugin is used by administrator to configure Milestone VMS with all the pre-requisites needed prior using **Mantis**.

NOTE: if any of the plugins is installed, the related checkbox will be ticked and greyed out. To remove the currently installed version go to control panel and uninstall mantis

I. Mantis Management Client Plugin

1. To install **Mantis Management Client Plugin**, run the installer and choose **Mantis Management Client Plugin**.
2. Write the **SQL server name** (write “localhost” if the SQL is on the same machine), choose the correct username and enter the password in the “*Login Password*” and click “*Test*”. A successful connection message box should appear. Otherwise, you will receive a notification if the username or password is wrong.

NOTE: if Mantis database already exists, the “Database exist” check box will be greyed out and ticked.



The screenshot shows a window titled "Mantis" with a standard Windows title bar. The main content area contains the following fields and buttons:

- SQL Server Name:** A text input field containing ".sqlexpress" with a "Get Logins" button to its right.
- Server Admin Login Name:** A dropdown menu.
- Login Password:** A text input field with a "Test" button to its right.
- Database exists:** A checkbox that is currently unchecked.
- Navigation buttons:** Three buttons at the bottom: "<- Back", "Cancel", and "Next ->".

II. Mantis Smart Client Plugin

To install Mantis Smart Client Plugin, run the installer and choose Mantis Smart Client Plugin and repeat step 2 from Mantis Management Client Plugin.

MANTIS Configuration

Prior to "Mantis" configuration, Milestone VMS should be properly configured and ready. The configuration of Milestone will include the following:

- Adding cameras and related microphones
- Creating camera groups and assigning cameras to the group
- Create basic users and relate them to their roles
- Create camera views in the smart client.

NOTE: For Milestone installation, please refer to Milestone installation manual

Milestone Configuration

I. Configure recording and storage settings

Before adding the cameras to the recording server, the storage of the recording server should be configured.

1. With recording server selected, click the storage tab.
2. In the Storage configuration section of the Properties pane, double-click the entry that says Local Default.

3. Change the Name to *“Observation default”*.
4. With *“Observation Default”* selected, click *“Edit Recording Storage”*. 
5. The Storage and Recording Settings dialog box appears, in the Path field, choose the Path where you want to keep your recordings
6. In the Retention time field, enter the retention time to the desired retention period.
7. In the Maximum size field, specify the maximum size to be used by your storage.
8. Click OK.
9. Verify the *“Observation default”* Storage configuration Default check box is selected.

II. Add archive settings for the recording server

To keep your recordings beyond the retention time of the *“Observation Default”* storage, Milestone VMS can archive the recorded videos on a NAS or SAN. Follow the below steps to configure an archive storage

1. Click on *“Observation default”* and click the *“add archive”* 
2. In the Archive Settings dialog box, enter the name of the archive.
3. In the Path field, specify the archive path.
4. In the Retention time box, set the time period to the required retention period.
5. In the Maximum size box, specify the size of the archive.
6. Click the *“Schedule”* icon. 
7. The Database Archiving Configuration dialog box appears. In the Daily frequency section choose the occurrence frequency.
8. Click OK to return to the storage configuration.

III. Add camera devices to the recording server

To see video streams coming from the observation room, the cameras should be added to the configured recording server.

1. On the *Site Navigation* pane, open the **Servers > Recording Servers** node
2. Right-click on the recording server node and click **Add Hardware** from the shortcut menu.
3. In the *Add Hardware* dialog box that appears, click **Express** and click **Next**
4. Leave the *Username* as **(Factory Default)** and the *password* as the **default value** if the cameras are working with their default *username* and *password*, otherwise add the proper *username* and *password*
5. Click Next to begin the express scanning on the network.
6. From the camera list choose the needed cameras and click **Next**.
7. Wait until the system has collected information about the hardware. When finished, click **Next**.

8. After you enable, disable, and name the devices according to the table above, click **Next**.
9. Create default groups for the devices.
10. Click Finish to complete the express hardware detection.

NOTE: each camera group is related to an observation room inside Mantis Plugin. It is recommended to add all the cameras under the default group and rearrange later under different groups.

IV. Create camera groups and assign cameras

As a pre-requisite for “Mantis”, the rooms and their related cameras should be assigned prior to any scheduling. The recommended procedure is to create the groups under the room names and then assign the cameras to the related groups.

1. In the Management Client, open the **Devices** node, and open the **Cameras** node to see the **camera group** you created earlier.
2. Right-click *Default group* and click **Add Device Group**.
3. In the *Add Device Group* dialog box, enter the name of the observation room. If you have more than 1 room, create the related groups accordingly.
4. Right-click the 1st device group and click **Edit Device Group Members**.
5. On the *Device Groups* tab, expand the *Default group*.
6. Select the related cameras and click **OK**.
7. Repeat this process for the rest of the cameras.

NOTE: Once ready, you should have folder under the name of the rooms and related cameras below each folder.

V. Configure Roles and users

In order to create Supervisors and operators in Mantis, the administrator should create basic users in Milestone management client and assign them to different roles. Below is a step by step description on how to create these users and assign the proper role for each of them

1. In the *Site Navigation* pane, open the **Security** node
2. Right-click **Role** and click **Add Role**.
3. Name the role **Supervisor** and click **OK**. Repeat the steps for 1 to 3 to create the **Operator** role.
4. To create a basic user, choose the related role and click on **Users and Groups** tab.
5. Click **Add**, and choose **Basic user**
6. At the bottom of the **Select Basic Users to Add to Role** pop up window, click **New**.
7. Enter the **Username** and **Password**.
8. For each role define the access rights needed. For more information on how to configure a role refer to the administrator manual of Milestone.

9. Click on **View Group**, and assign for the **Supervisor Role** the **Supervisor folder and Operator groups** and for **Operator Role** the **Operator Group**.
10. Open **Smart Client** and try to login with the created **assigned users**.

NOTE: To grant the users with admin role access on the Operator tab, the user should be assigned to the Operator role.

VI. Smart Client Configuration

To be able to view the live feed and the playback of the cameras, views should be created in the Smart Client and cameras should be added to the view.

1. Go to your desktop and double-click the smart client icon
2. Enter the IP address or the Name of the management server provided by your **administrator**.
3. Choose **basic user**
4. Choose **Basic authentication**.
5. Enter your **Username** and the **Password**
6. Click **Connect**
7. When the smart client opens, Click on **Setup button** on the top right
8. Right click on the **Supervisor** folder and create a **Group**
9. Right click on the **Group created** and create a **view**
10. To add the cameras to the view, open the server name and drag and drop the **Camera Group name** into the view.
11. Click **Setup**

Now you can see the cameras in action. Repeat the same procedure for adding the cameras to the **Operator** folder.

Mantis Management Client Configuration

Mantis Management client plugin is dedicated for administrators who are responsible of the system configuration. It includes the SQL server configuration, patient folder default path and license activation.

I. SQL Configuration

The **SQL Configuration** tab is used to modify the SQL configuration of **Mantis**. This is useful in case the SQL server has changed IP address, SQL username or SQL password.

II. Configuration

In order to define a default home folder for all the Subjects, the administrator will define the default path in the **Patient Folder**.

III. License

To activate your license , a license request should be generated and sent to licensing@systeminence.com. In order to generate a license request, click on **License Tab** in the **Management Client**.

1. Enter the **SLC code**
2. Choose the **Site ID** from the dropdown list
3. Enter the number of devices to be licensed
4. Select the devices to be included in the license. If all devices, click on **Select all**.
5. Click **Export**.
6. **Send the generated file to licensing@systeminence.com.**

Once license is received, click on **Import License and import the file received**

Now **Mantis** is fully licensed and ready for configuration.