



Secure Display Station Plug-in for Milestone® XProtect

User Manual

Document Version 1.2

IONODES Secure Display Station Plug-in for Milestone XProtect

User Manual

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The following words and symbols mark special messages throughout this manual:

Warning: Text set off in this manner indicates that failure to follow directions could result in damage to persons or equipment.

Note: Text set off in this manner indicates special instructions which should be paid attention to.

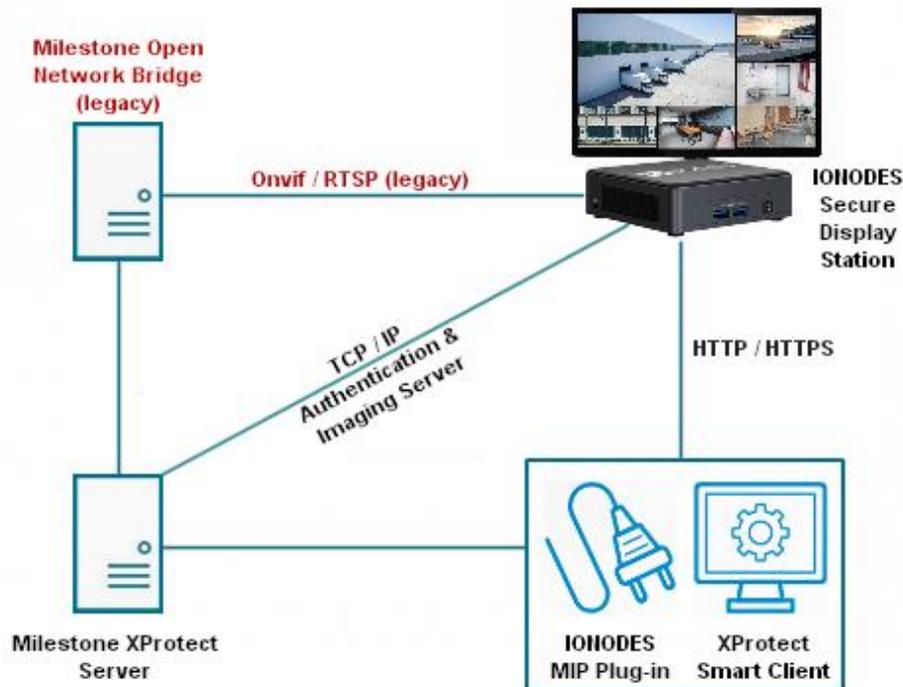
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1 Introduction

The Secure Display Station Plug-in for Milestone® XProtect allows for seamless integration of Secure Display Station (SDS) appliances within the Milestone XProtect® VMS solution. It allows for user control of the views, layouts and cameras displayed on the SDS from within the XProtect® Smart Client application.

The diagram below shows the elements involved with this integration.



The plug-in adds a set of user interface elements within the XProtect® Management Client and Smart Client allowing users to configure and control various aspects of the integration. Video streams can be retrieved from Milestone XProtect® Server via two (2) interfaces:

- Built-in Milestone Imaging Server, or
- Milestone Open Network Bridge

Note: Only Imaging Server approach is described in this manual. It is recommended for all new installations. Integration using Milestone Open Network Bridge is a legacy feature that requires additional software installation and configuration. If required, please contact IONODES to obtain an earlier version of this manual describing Milestone Open Network Bridge installation and configuration.

2 Requirements

This integration requires Milestone XProtect® 2021 R2 or later, and the IONODES SDS Plug-in for Milestone XProtect. It is supported by the following editions of the Milestone XProtect® VMS: Express+, Professional+, Expert and Corporate.

Installation described in this document supports Imaging Server(s) installed on hosts other than Management Server host and requires IONODES SDS firmware 6.8.4.0.

Warning: Streaming from devices with Privacy Masking enabled is possible by configuring RecorderConfig.xml. However, the stream will display on the SDS without mask applied.

3 Installation and Configuration

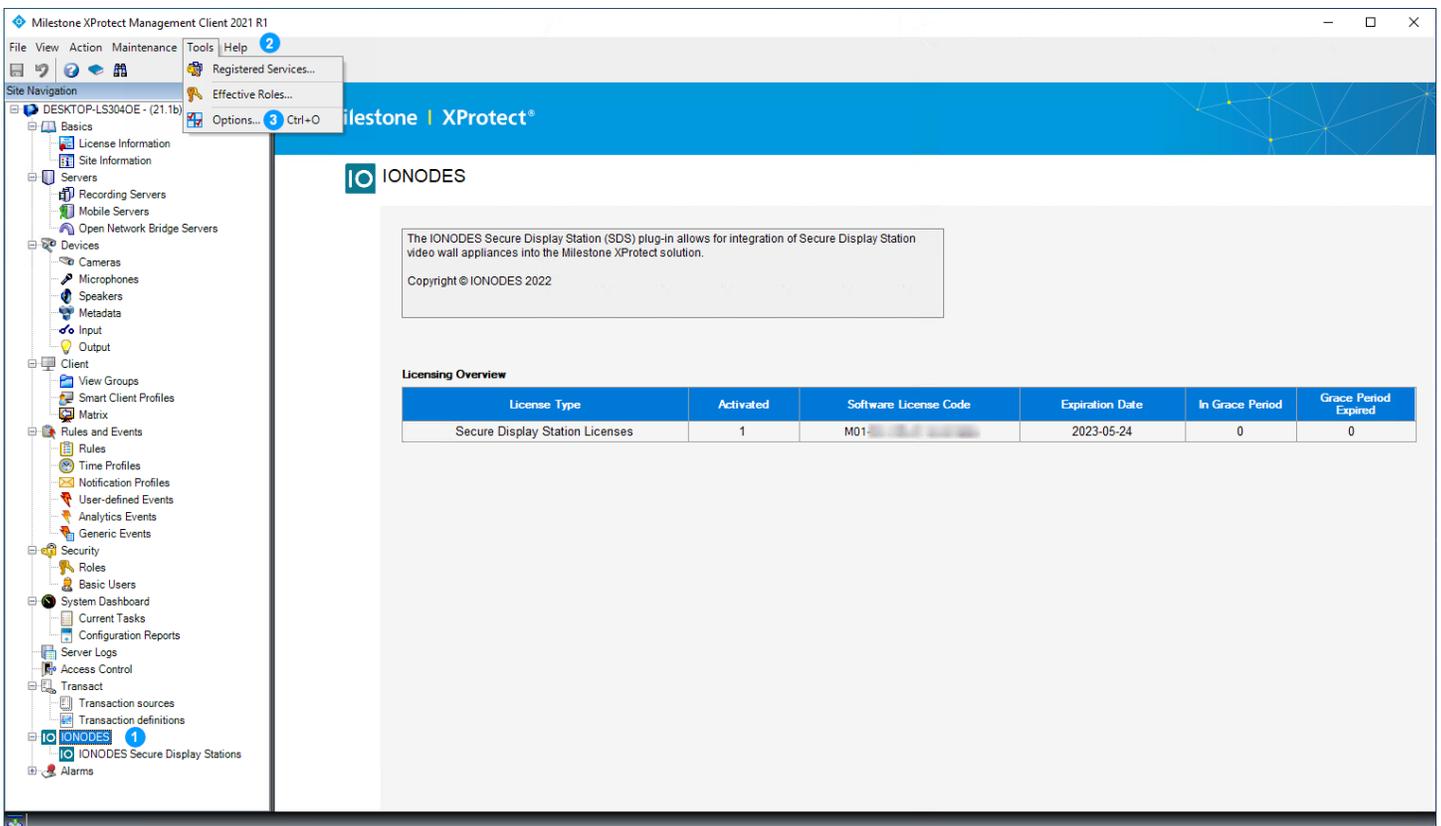
3.1 Installing the plug-in

1. Shutdown all Milestone XProtect® client applications, such as the Smart Client, Management Client, and any other client application
2. Stop all Milestone XProtect® server components and services
3. Run the IONODES SDS Plug-in for Milestone XProtect installer on the Milestone XProtect® Management server, and on any computer where the XProtect® Smart Client and/or Management Client will be used to configure SDS integration.

Milestone requires plug-ins to be installed in a specific folder relative to its own installation location (C:\Program Files\Milestone\MIPPlugins by default). If your installation location is different, adjust the plug-in installation path accordingly

4. Restart all Milestone XProtect® server components and services

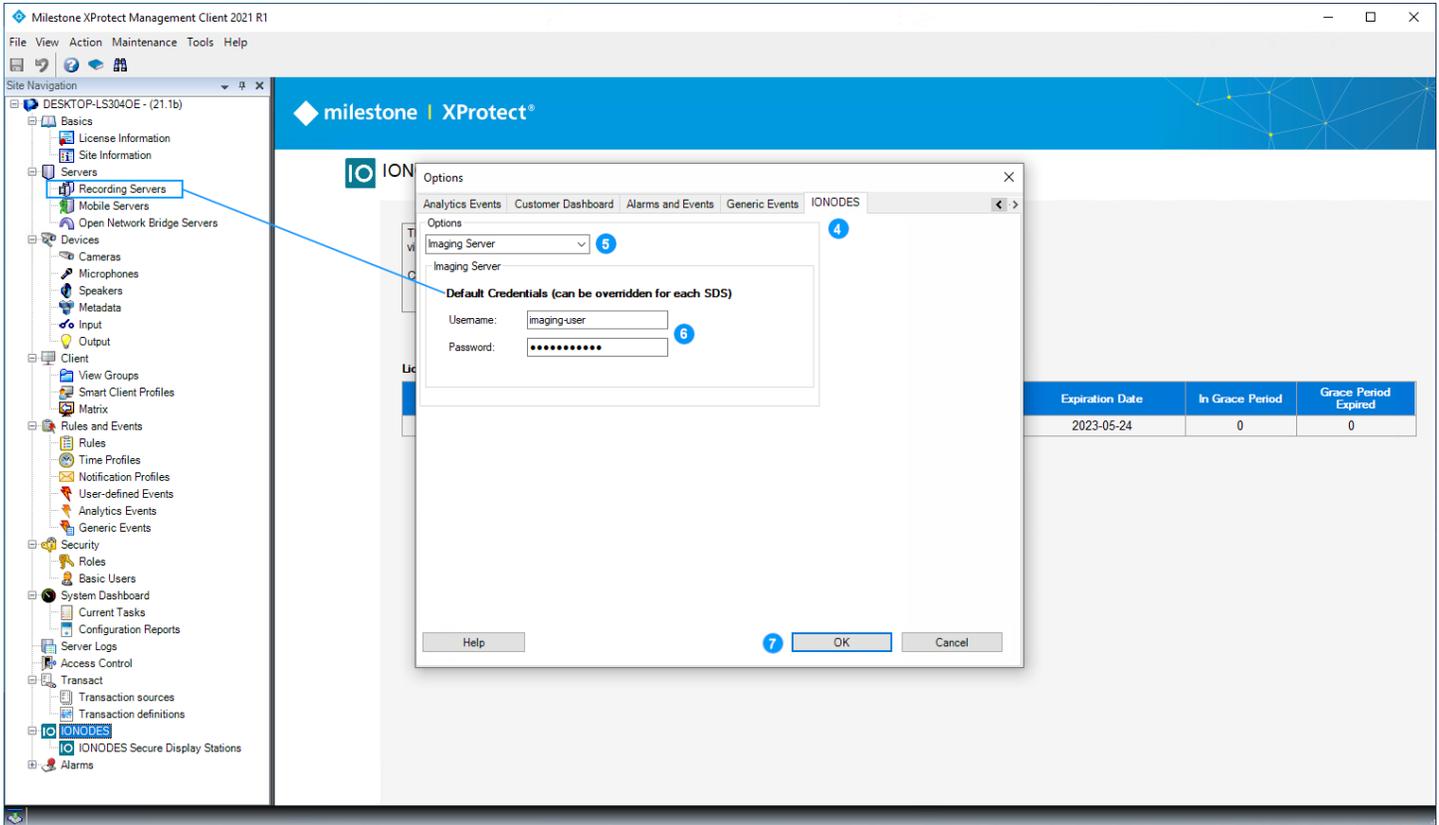
3.2 Configuring Imaging Server



The screenshot shows the Milestone XProtect Management Client 2021 R1 interface. The Site Navigation pane on the left includes the IONODES menu item, which is highlighted with a blue circle and a '1'. The Tools menu is open, showing the Options... option, which is highlighted with a blue circle and a '3'. The main content area displays the IONODES logo and a text box stating: "The IONODES Secure Display Station (SDS) plug-in allows for integration of Secure Display Station video wall appliances into the Milestone XProtect solution. Copyright © IONODES 2022". Below this is a Licensing Overview table.

License Type	Activated	Software License Code	Expiration Date	In Grace Period	Grace Period Expired
Secure Display Station Licenses	1	M01-XXXXXXXXXX	2023-05-24	0	0

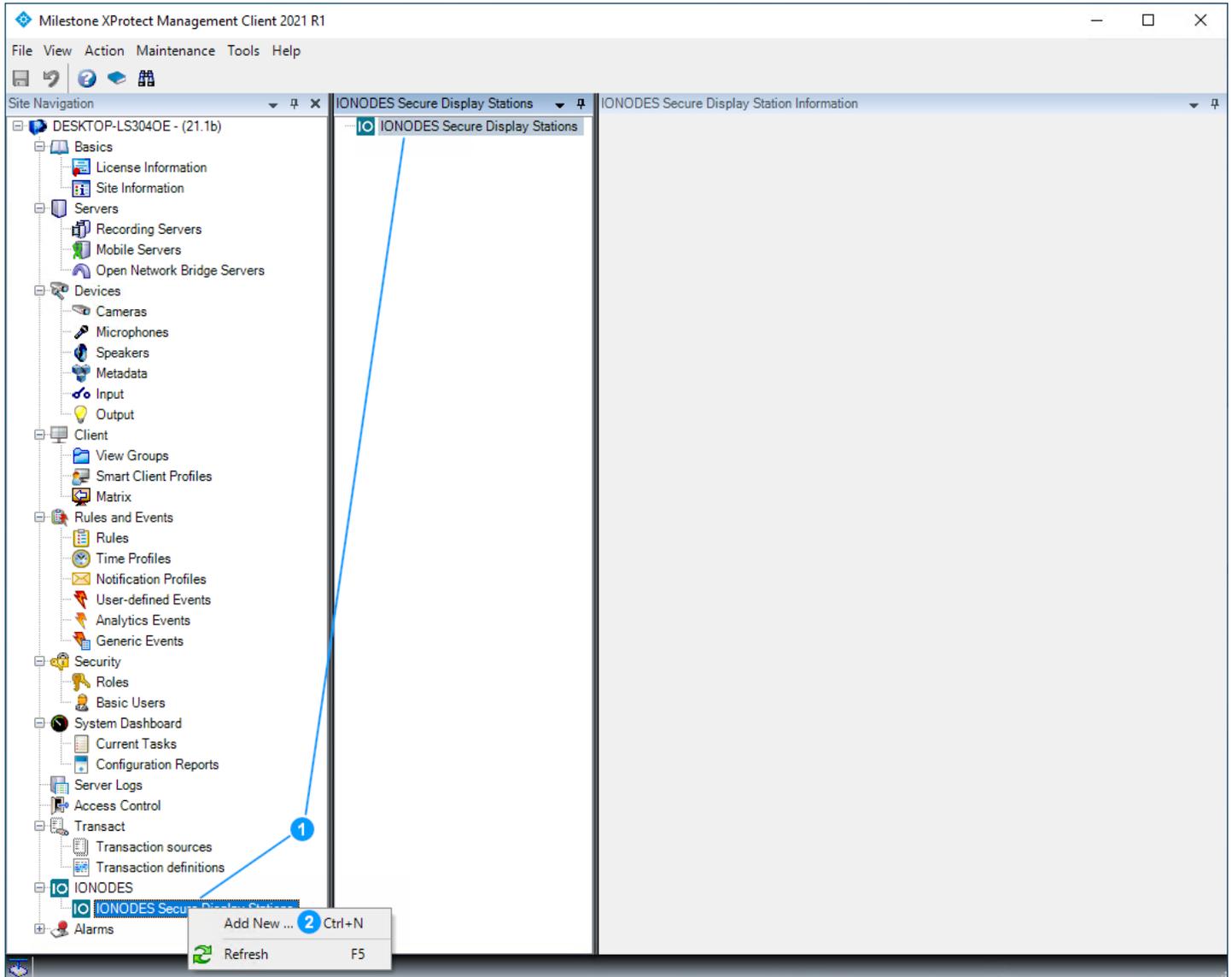
1. Once the plug-in is installed, open the XProtect® Management Client. The new **IONODES** menu item will be available from the **Site Navigation** pane
2. From the **Tools** toolbar menu
3. Select **Options...**



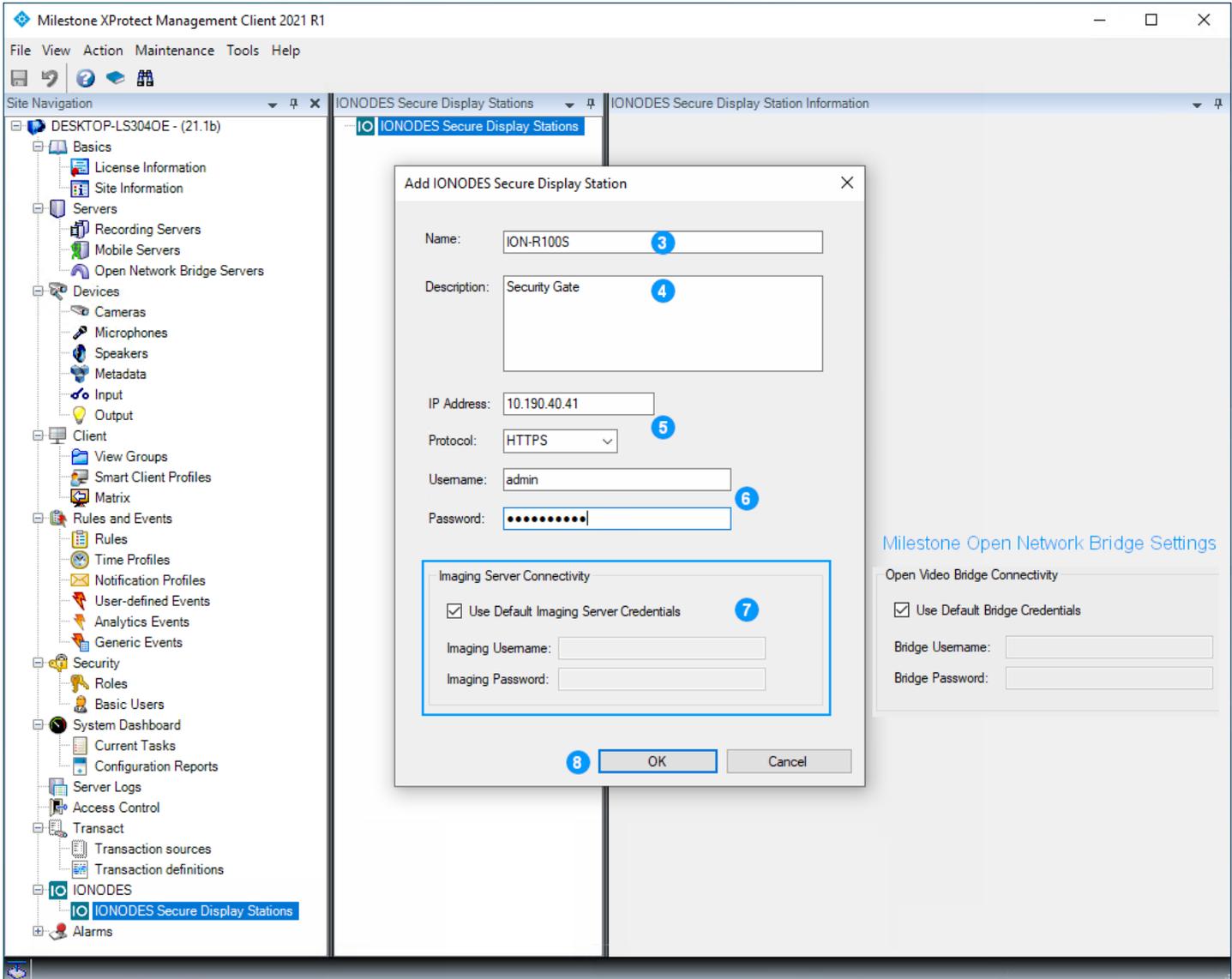
4. In the **Options** window, select the **IONODES** tab
5. Select **Imaging Server** from the drop-down menu
6. Set the **Default Credentials** of a **Basic User** whose **Role** allows **XProtect Smart Client** logon and **Cameras View Live**
7. Click **OK**

4 Adding a Secure Display Station to Milestone XProtect®

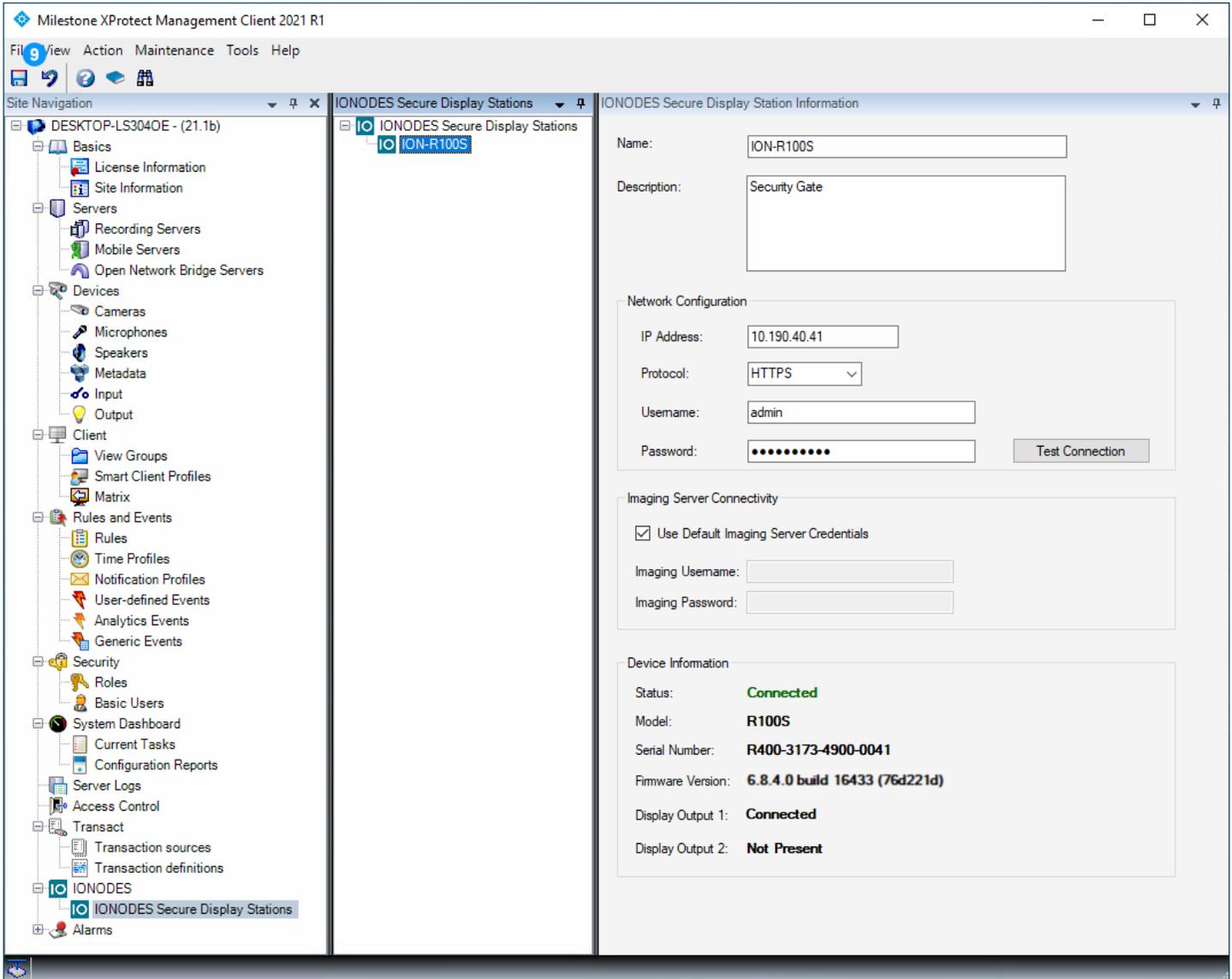
Once the IONODES SDS Plug-in is installed and configured, follow these steps to add a new Secure Display Station (SDS) device to your Milestone system.



1. From the XProtect® Management Client Site Navigation pane, expand the **IONODES** item and right-click on **IONODES Secure Display Station** from either the left or center pane.
2. Click **Add New...**



3. In the **Add IONODES Secure Display Station** window, enter the name under which the SDS will appear in XProtect® Smart Client
4. Enter an optional description
5. Enter the SDS **IP Address** and select **HTTP** or **HTTPS** protocol for communication between the IONODES MIP Plug-in and the SDS (HTTPS recommended)
6. Enter the SDS login credentials
7. In the **Imaging Server Connectivity**, check **Use Default Imaging Server Credentials** to use default settings previously configured in the IONODES SDS Milestone Plug-in options. Alternatively, distinct Imaging Server settings can be configured per SDS
8. Click **OK**

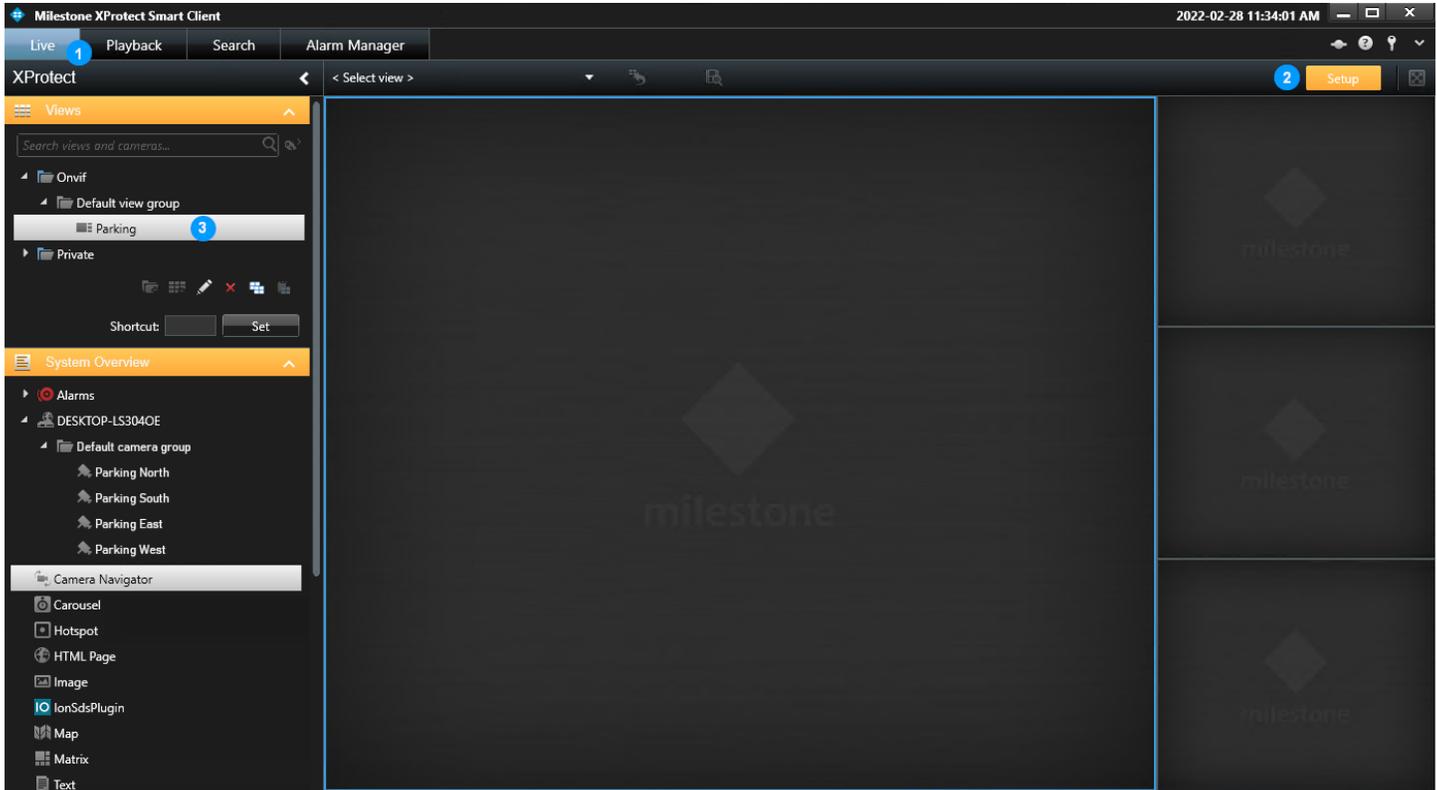


9. Upon successful addition, the SDS will be added with information such as the serial number, firmware version and connection status (Imaging Server configuration shown). Click on the **Save** toolbar icon.

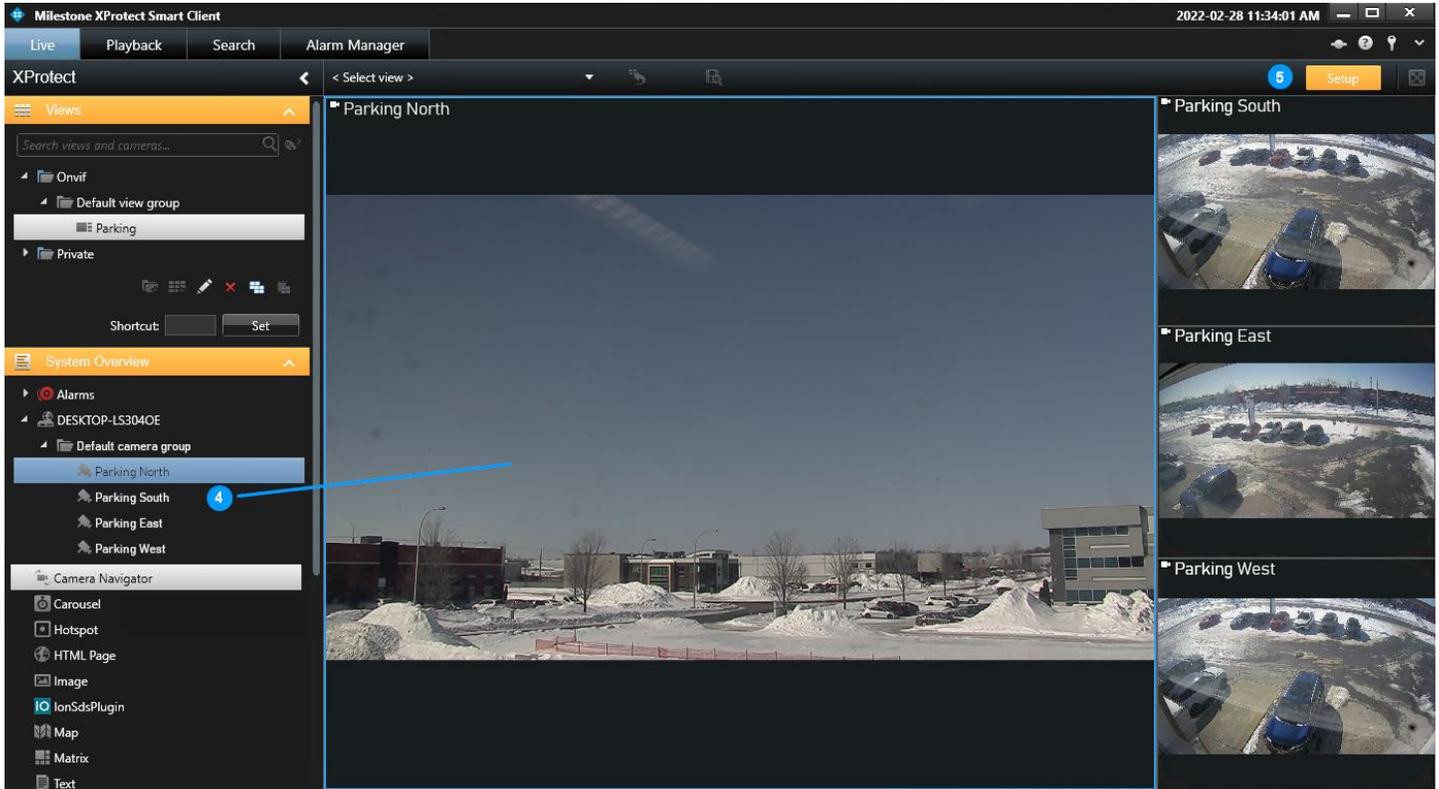
Note: The steps above show a simple deployment, where a single Imaging Server (Recording Server) is used, and all SDS connect with to it using the same user (Default Imaging Server credentials). It is possible to add any number of Imaging Servers and/or set different credentials for individual SDS. This can be warranted for larger deployments and / or to constrain individual SDS access to specific cameras.

5 Configuring Secure Display Station Views

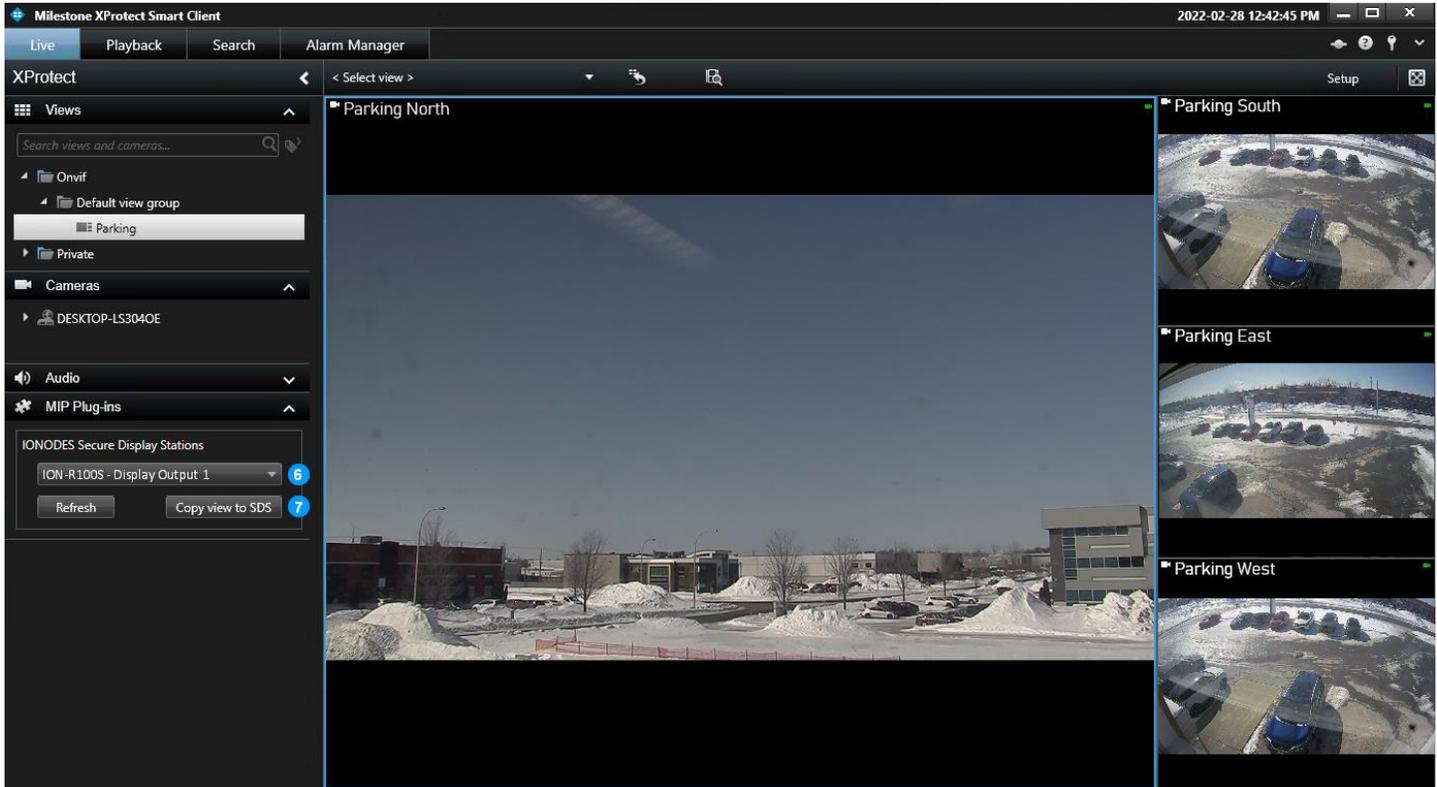
Follow these steps to configure live views on an SDS.



1. From the XProtect® Smart Client, select the **Live** tab
2. Click on **Setup** to toggle it ON
3. Select or create a View with the desired layout you wish to display in the SDS



4. Drag and drop cameras into tiles to configure the desired view layout and camera assignments. Note that only live camera streams can be displayed. No other types of sources (static image, web content, analytics, etc.) are supported.
5. Once the view configuration is completed, toggle the **Setup** mode to OFF



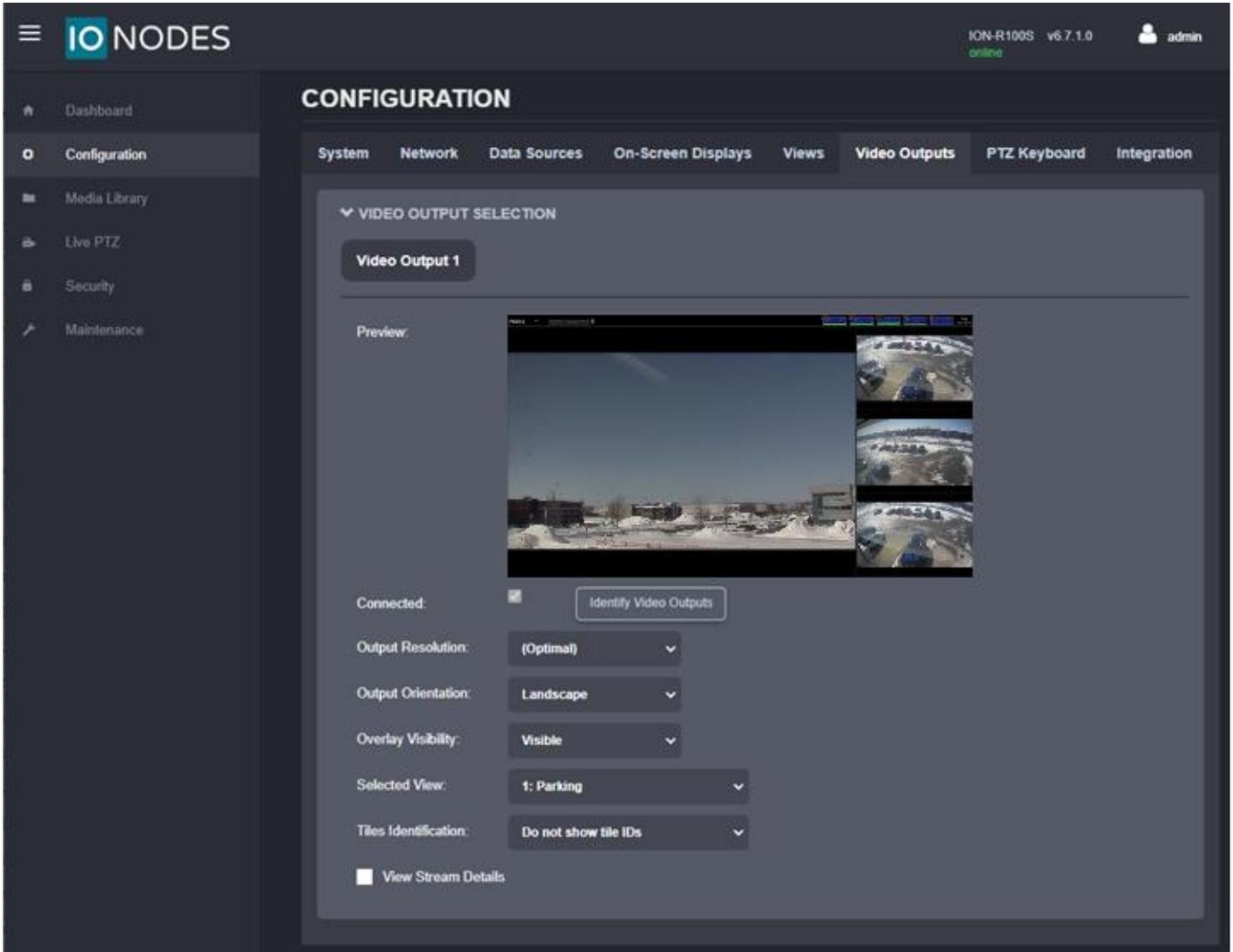
6. From the **MIP Plug-ins > IONODES Secure Display Stations** section's drop-down menu, select the SDS display output where the configured view shall be displayed.
7. Click on **Copy view to SDS**, this will copy the view configuration to the selected SDS.

Note: Secure Display Stations support a maximum of 16 tiles per view. Attempting to send a view with more than 16 tiles will return an error message.

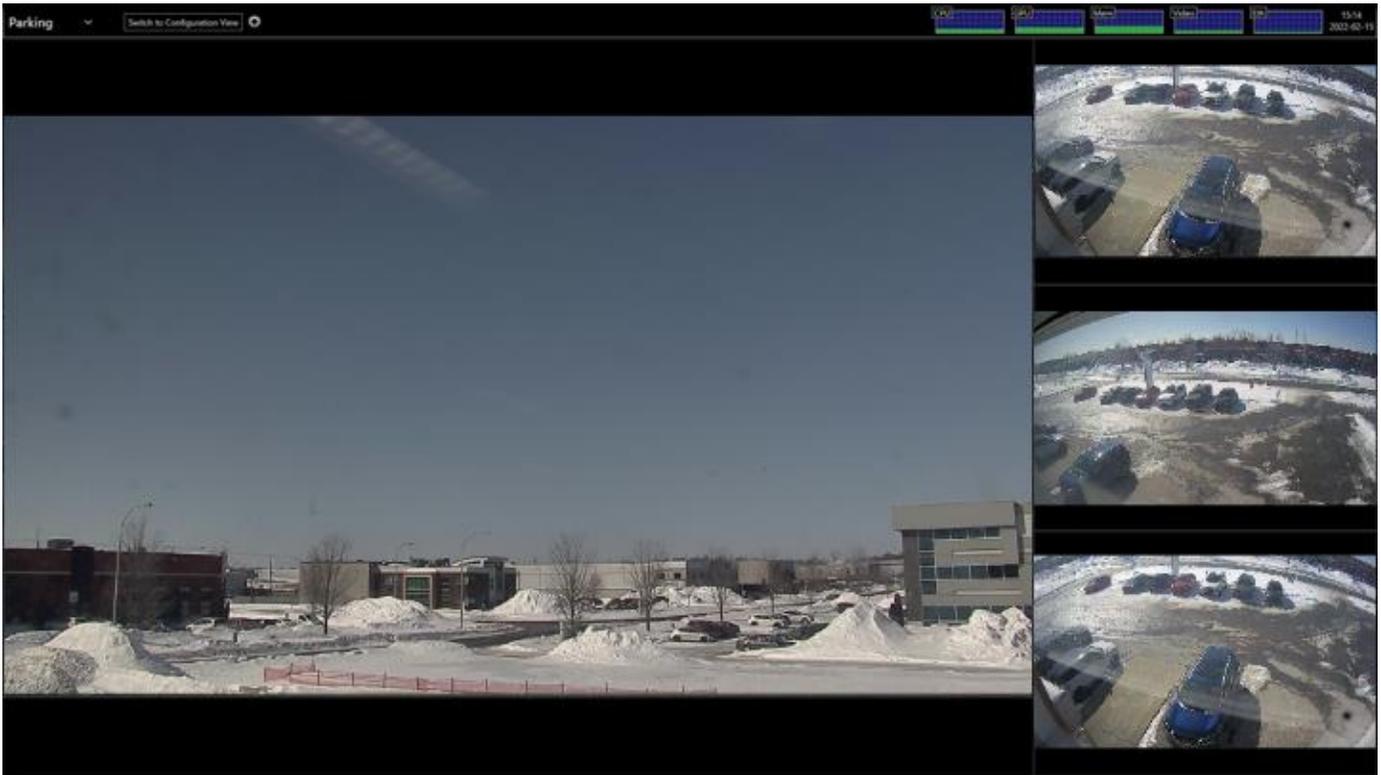
6 Viewing the Secure Display Station Video Output

Once the SDS is added to Milestone XProtect® and live view layout(s) are configured, your SDS Video Output Preview(s) and actual monitoring display should reflect what has been set.

The screenshot below shows how the Video Output preview in the SDS Web GUI looks like after configuring the view from XProtect® Smart Client in the previous section.



The screenshot below shows the actual Video Output on video wall.



To later change the SDS view, repeat steps described in the previous section.

7 Licensing

When installing the plug-in, it will activate a demo license for ten (10) Secure Display Stations. The demo license has no feature limitation, is valid for 30 days, and followed by a 30-day grace period. Production licenses can be obtained by contacting the IONODES sales team (sales@ionodes.com) or your authorized reseller. Licenses are activated following the same process as Milestone XProtect® licensing.

The screenshot displays the Milestone XProtect Management Client 2021 R1 interface. The left sidebar shows the 'Site Navigation' tree with 'Basics' expanded to 'License Information' (marked with a blue '1'). The main content area shows the 'milestone | XProtect®' header, 'Milestone Care' section, and 'Installed Products' table. The 'Installed Products' table has a blue '2' over the 'Software License Code' column. Below it is the 'License Overview - All sites' table and the 'License Details - Current Site: DESKTOP-LS3040E' table. At the bottom, the 'Activate License Manually...' dropdown menu is open, showing 'Offline' selected (marked with a blue '3') and a sub-menu with 'Export License For Activation' and 'Import Activated License' options. The status bar at the bottom indicates 'Last activated: May 27, 2022 10:54:59 AM' and 'Information refreshed: May 27, 2022 1:00:37 PM'.

Product Version	Software License Code	Expiration Date	Milestone Care Plus	Milestone Care Premium
XProtect Professional+ 2021 R1 Test	M01-	2023-02-17	N/A	N/A
IONODES v1.0.0.1	N/A	2023-05-24	2023-05-24	

License Type	Activated
Device Licenses	3 out of 25
Secure Display Station Licenses	1 out of 10

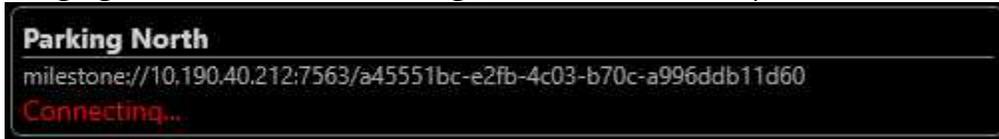
License Type	Activated	Changes without activation	In Grace Period	Grace Period Expired	Without License
Device Licenses	3	0 out of 2	0	0	0
Secure Display Station Licenses	1	N/A	0	0	0

1. From XProtect Management Client's **Site Navigation**, expand the **Basics** menu item and open **License Information**
2. Note your system's **Software License Code**. This code is required when purchasing an IONODES plug-in license from IONODES or from an authorized reseller.
3. Upon purchase, licenses will be assigned to this system and available through the Milestone Customer Dashboard. Automatic, manual online and manual offline license activation are supported by the plug-in. Refer to Milestone documentation web page, under the Milestone Customer Dashboard header for detailed instructions: <https://doc.milestonesys.com/latest/en-US/index.htm>

Annex A - Troubleshooting Guide

- **Video Tiles show “Connection Lost” on the SDS**

- Logon to the SDS web UI and enable the Video Output Stream Details to display troubleshooting information overlays.
- A continuous Connecting... error with an URI that starts with milestone:// indicates the Imaging Server connection settings, credentials and/or permissions are invalid



- A Connection failed error on a single video tile likely indicates the Milestone® Recording server lost connection with that camera.

- **Cannot add SDS to Milestone**

- Verify the SDS is connected, and its network settings are properly configured.
- SDS Milestone Plug-in requires credentials for an SDS user with *Poweruser* or higher role.

Note: Milestone XProtect® Management Server and/or Smart Client may need to be restarted when settings are changed for troubleshooting.

Note: A View may need to be pushed again from XProtect® Smart Client to the SDS after settings are changed for troubleshooting.
