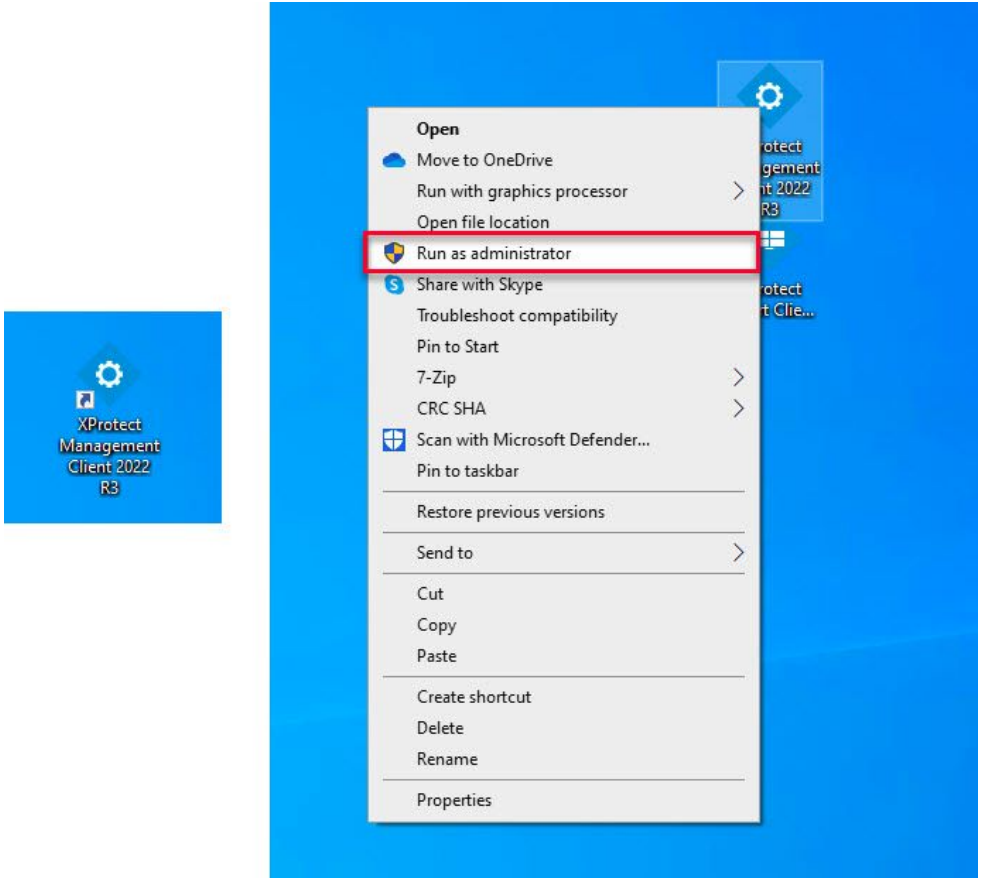
RMF - System Setup in Fed. Deployments

Vega Systems Inc.

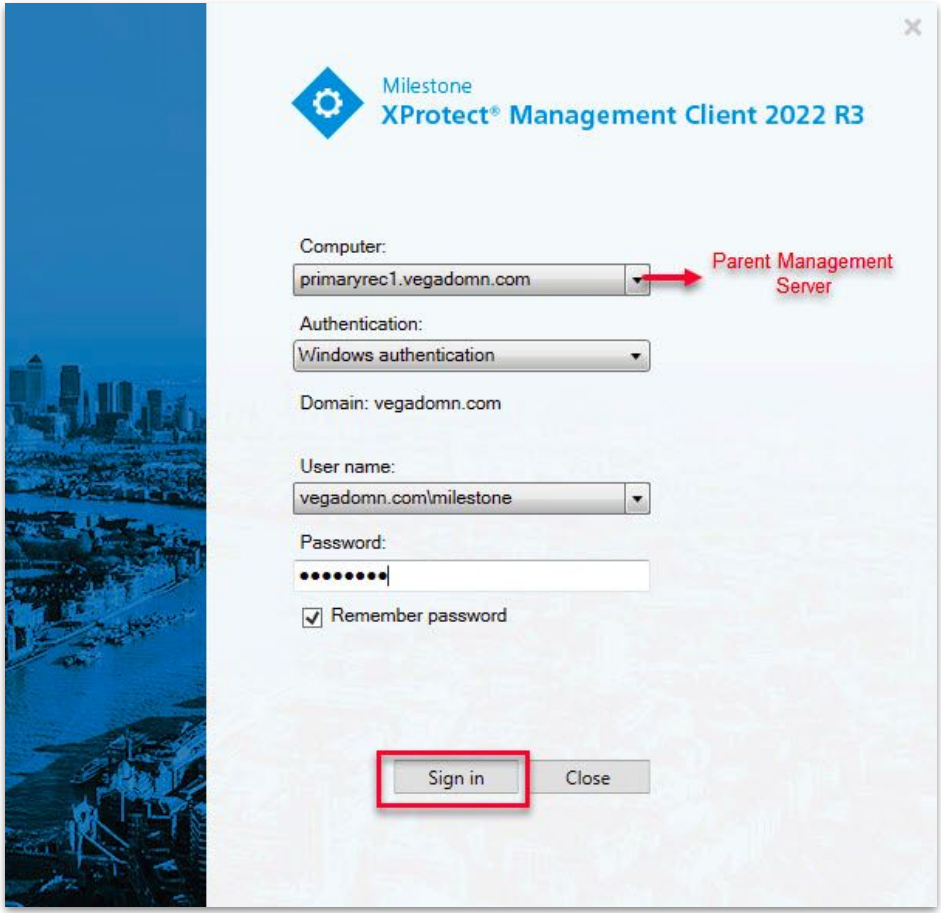
03/08/2023
https://www.vega25.com/rmf

Part 1: Prerequisites



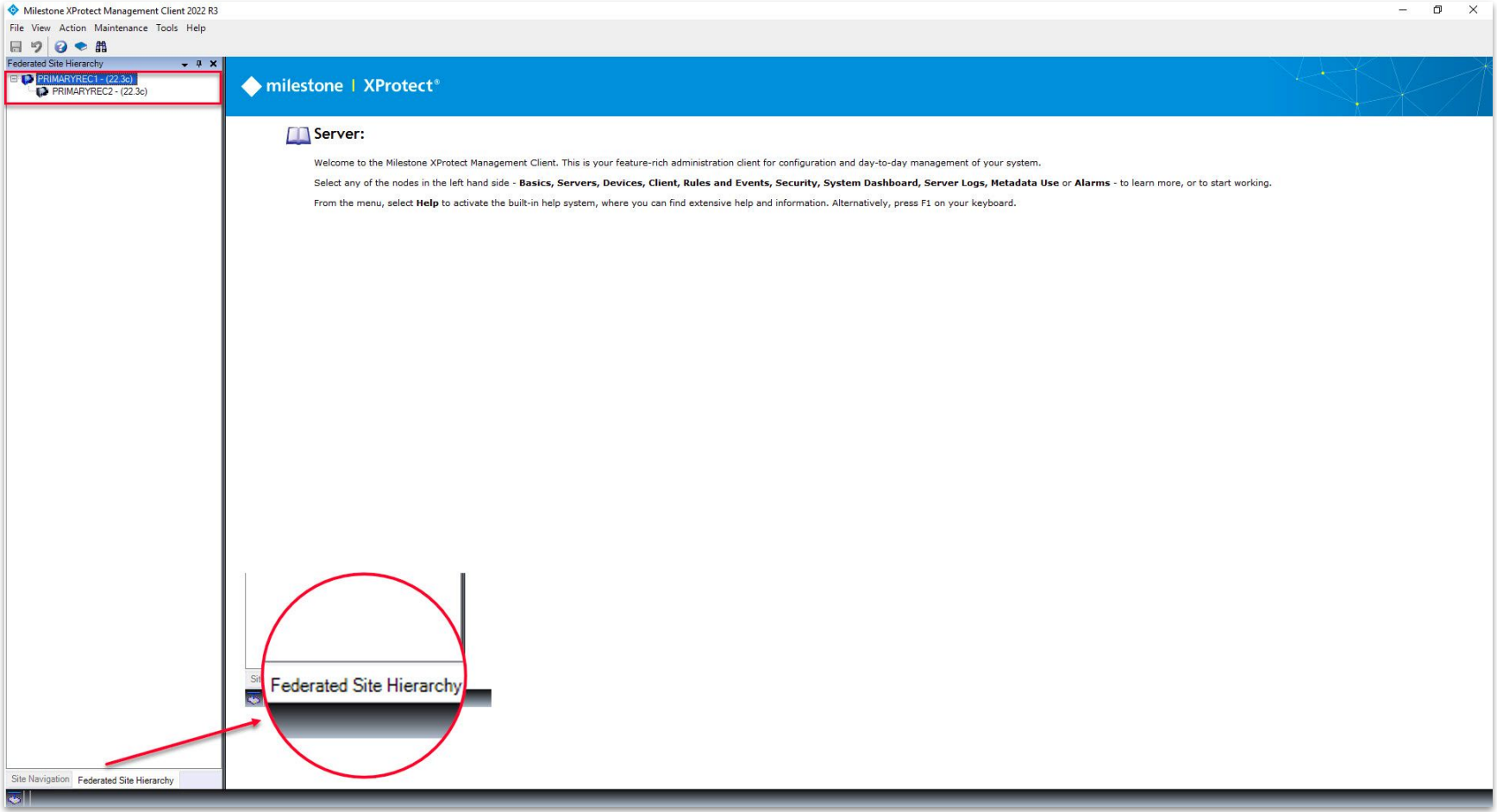
<u>Step 1</u>: Open the **Management Client**.

Note: Run as administrator

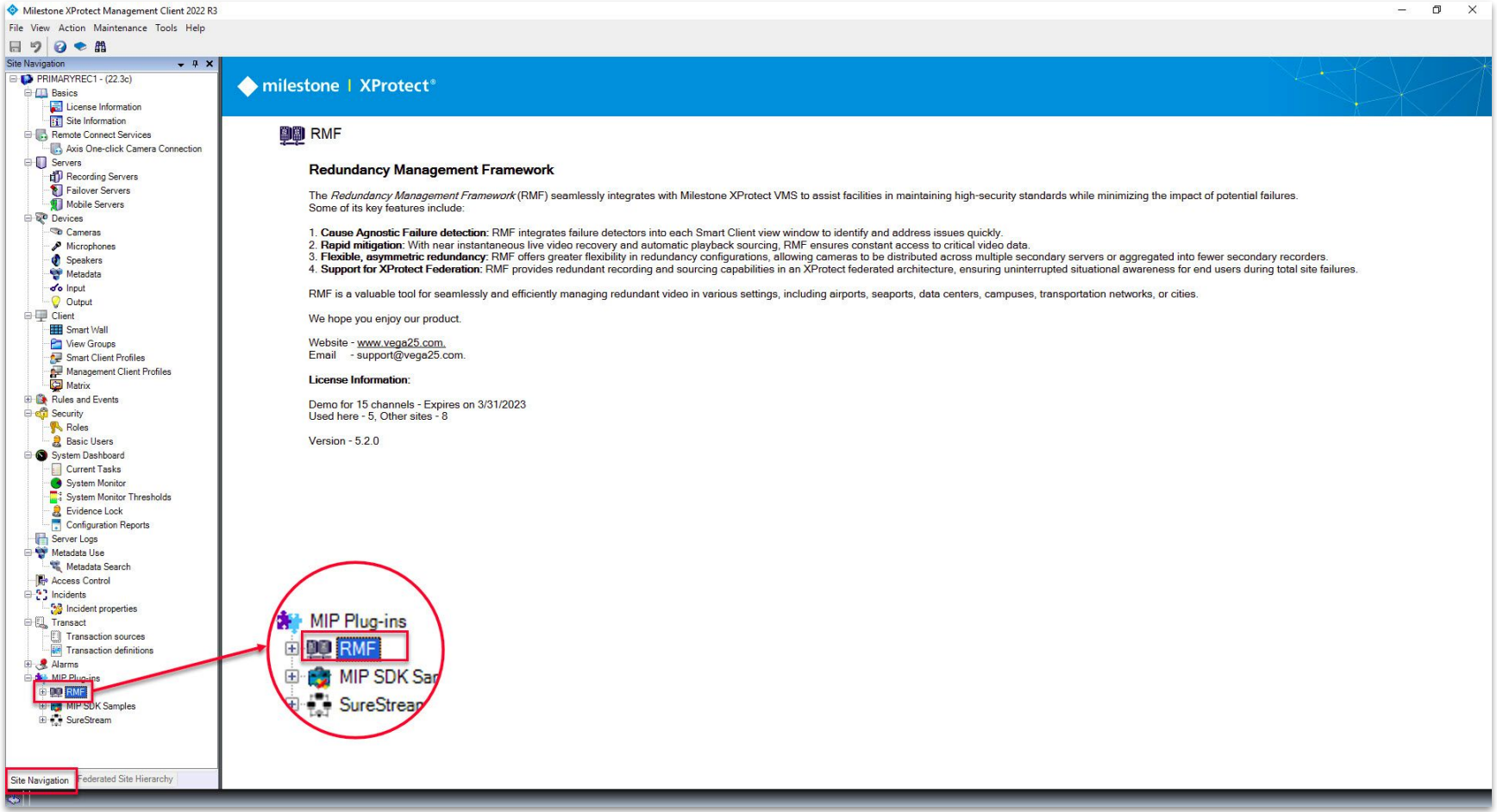


<u>Step 2</u>: **Login** into the **parent** management server as a domain user with admin privileges.

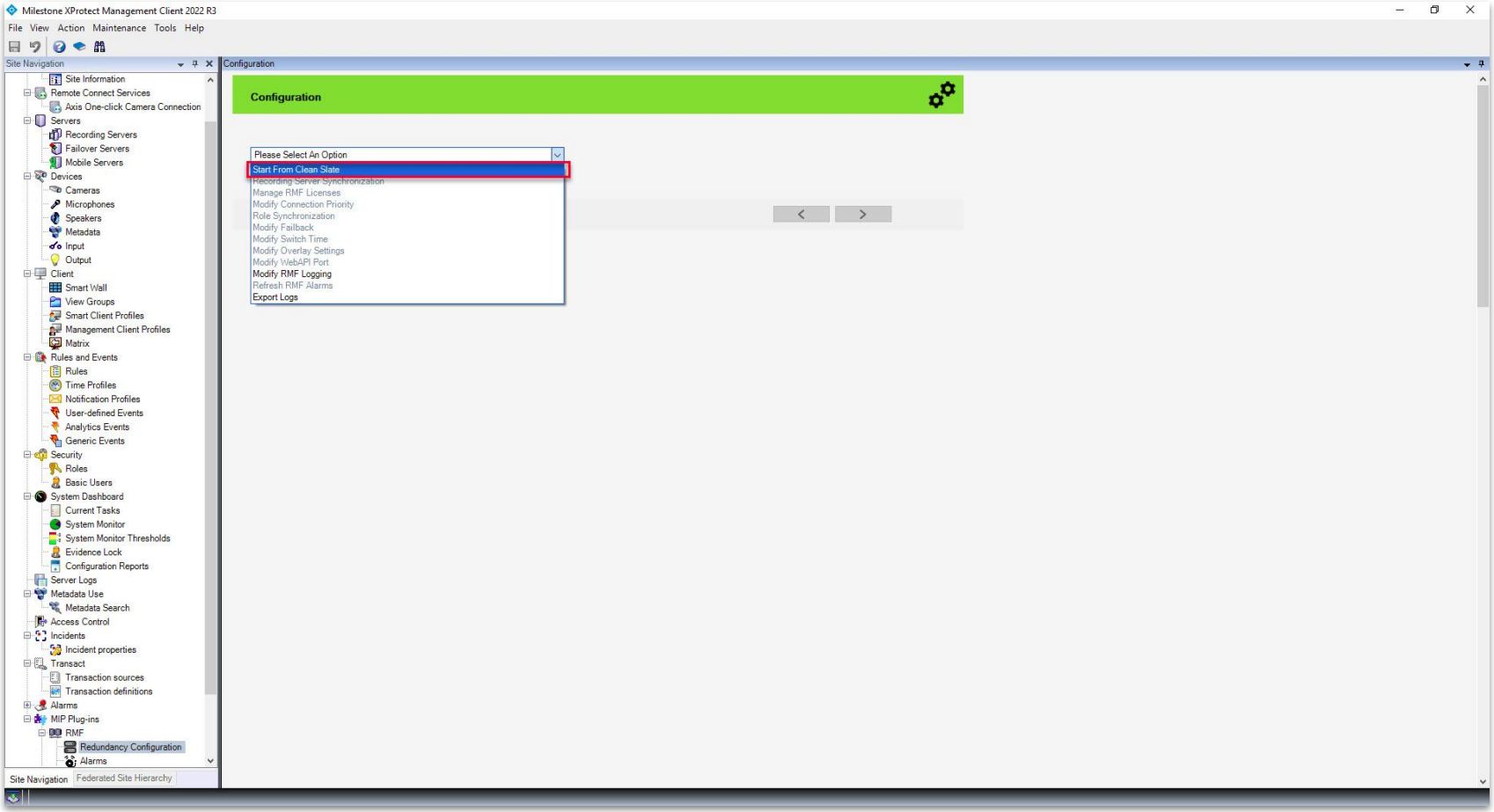
Note: Parent = Primary Server, Child = Secondary Server



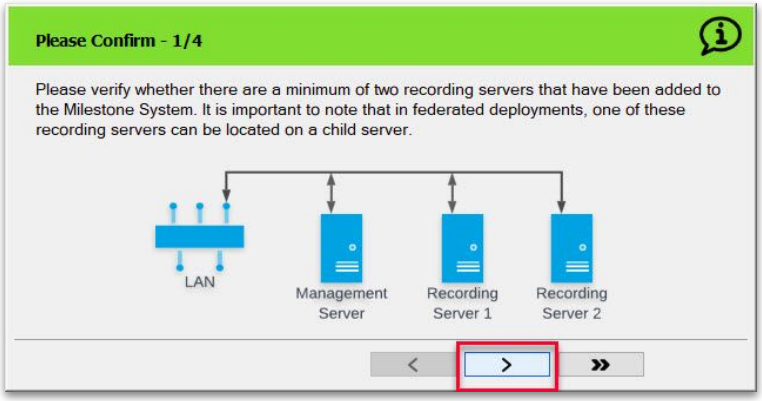
<u>Step 3</u>: Goto **Federated Site Hierarchy** and ensure the **parent** and **child** servers are listed.

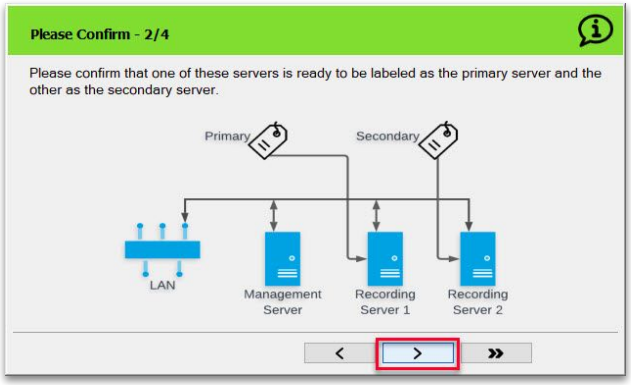


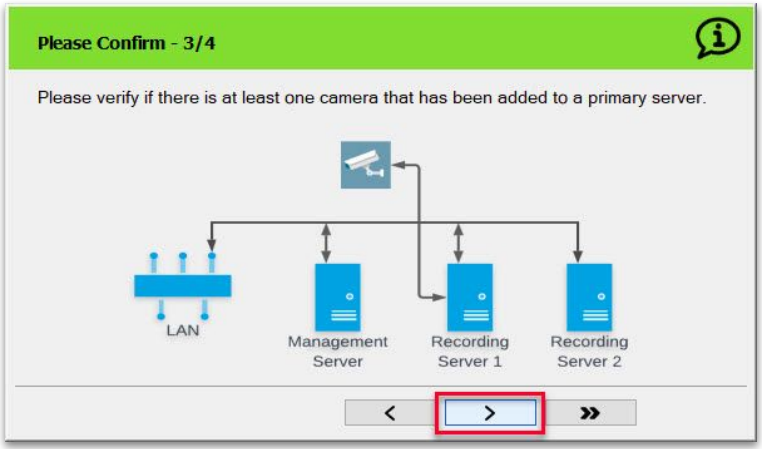
<u>Step 4</u>: Select the **RMF plugin** from **Site Navigation → MIP Plugins**

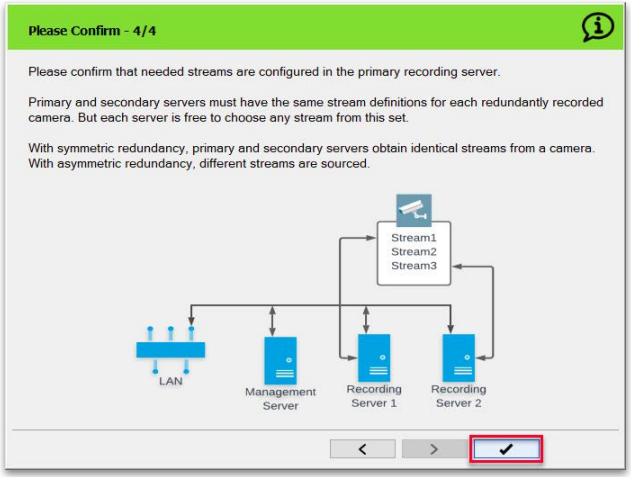


<u>Step 5</u>: Expand RMF and select **Redundancy Configuration.**
Choose **Start From Clean Slate** from the list.









<u>Step 6</u>: Read all the information provided and **confirm all the prerequisites are met**.
Click **Next for all four steps**.

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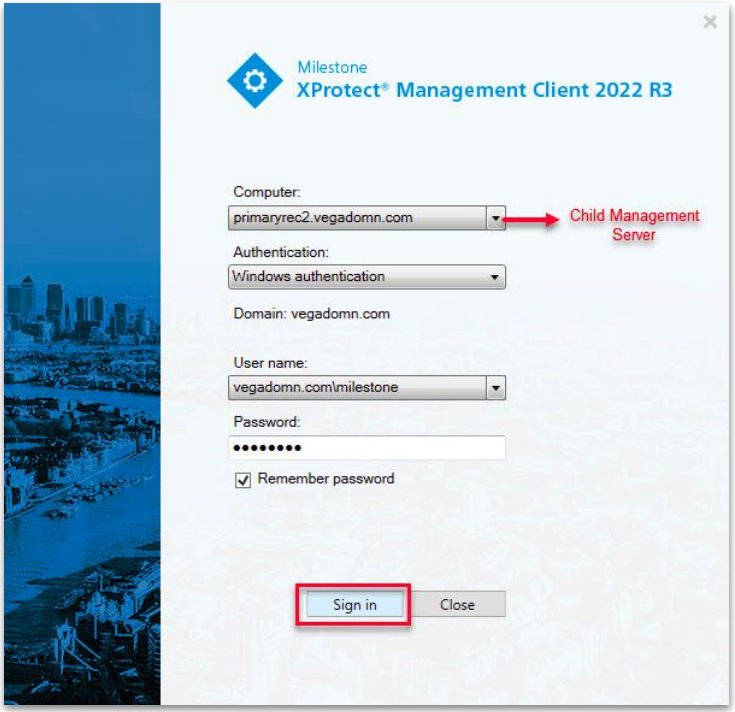
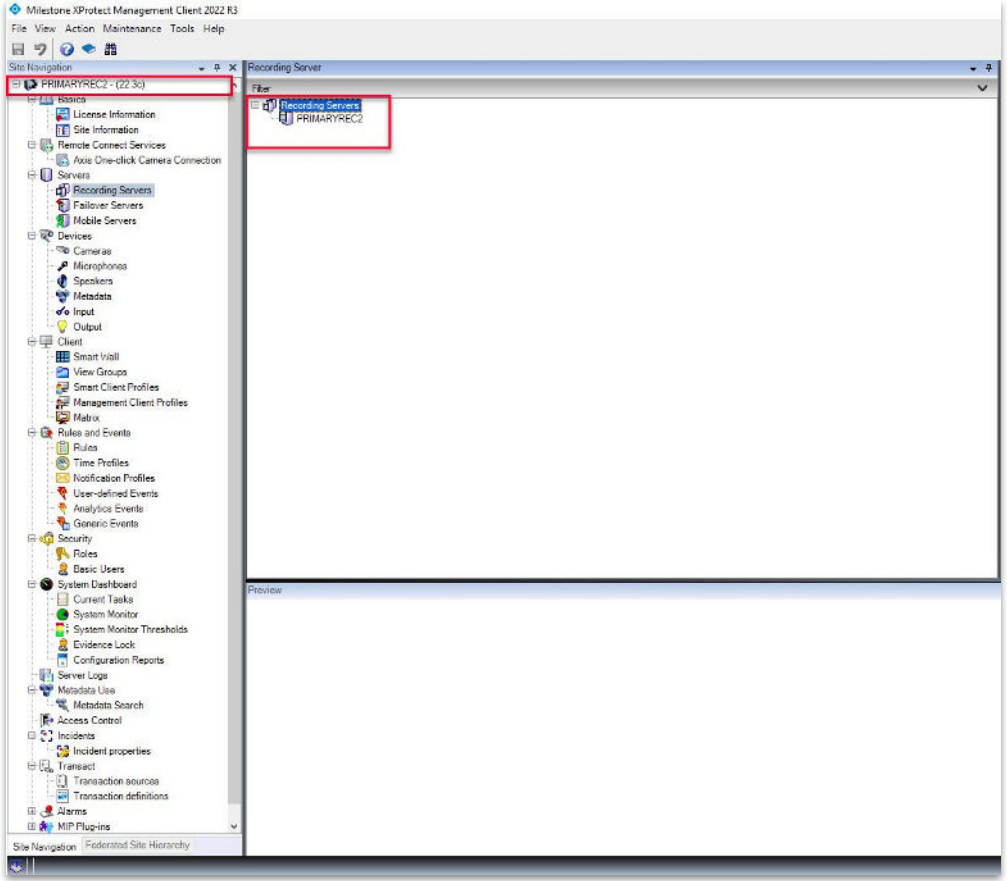
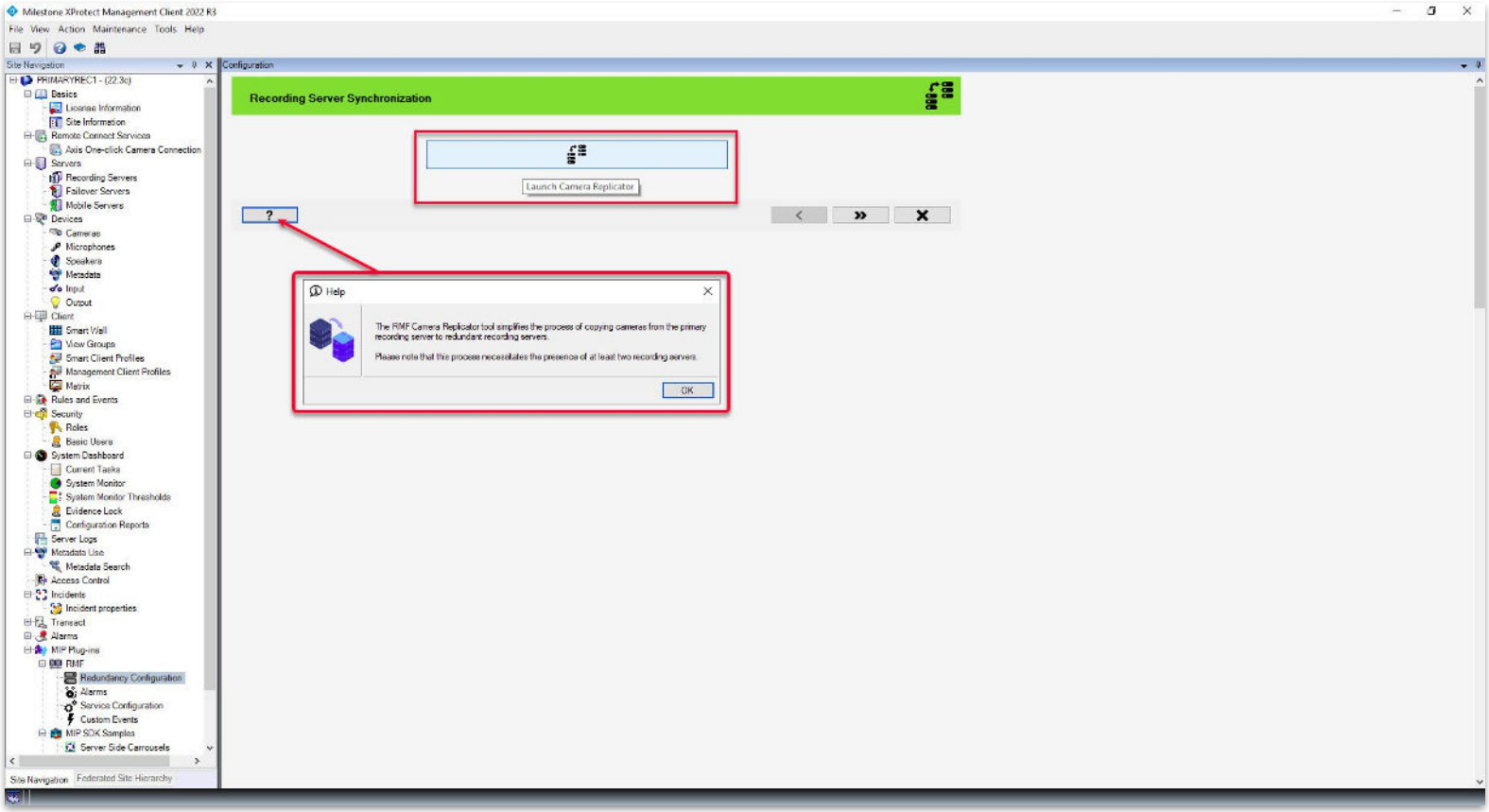
Part 2: Camera Replication/Synchronization



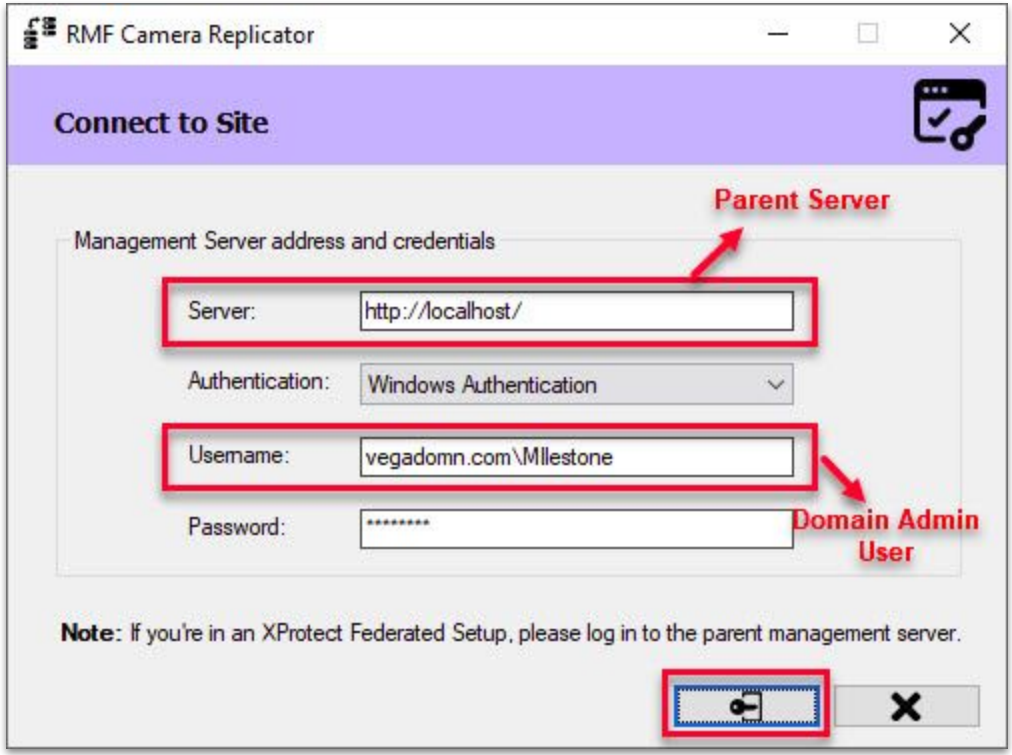


<u>Verification Step</u>: The camera list of the child recording server before replication

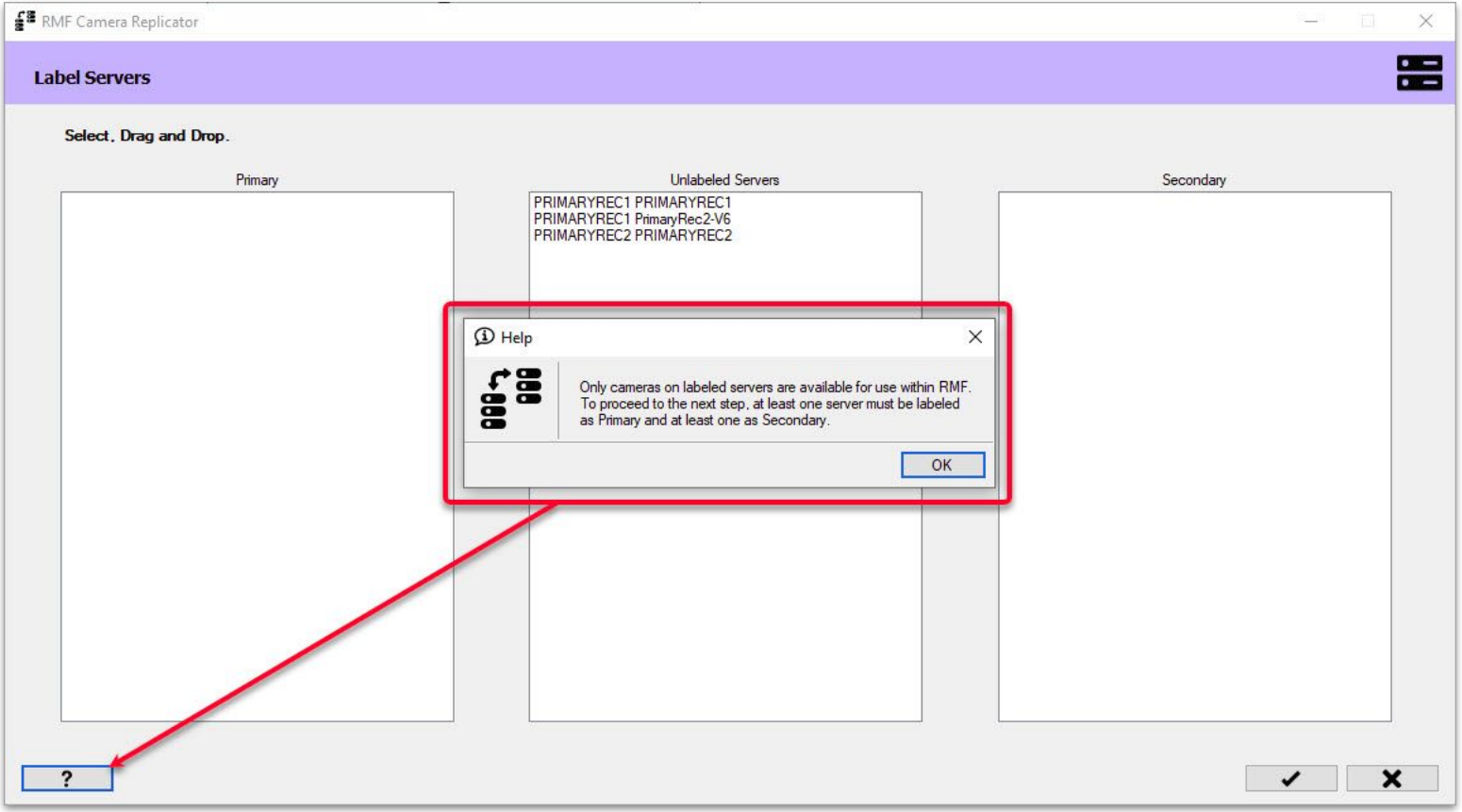
Note: There are no cameras under the child recording server .



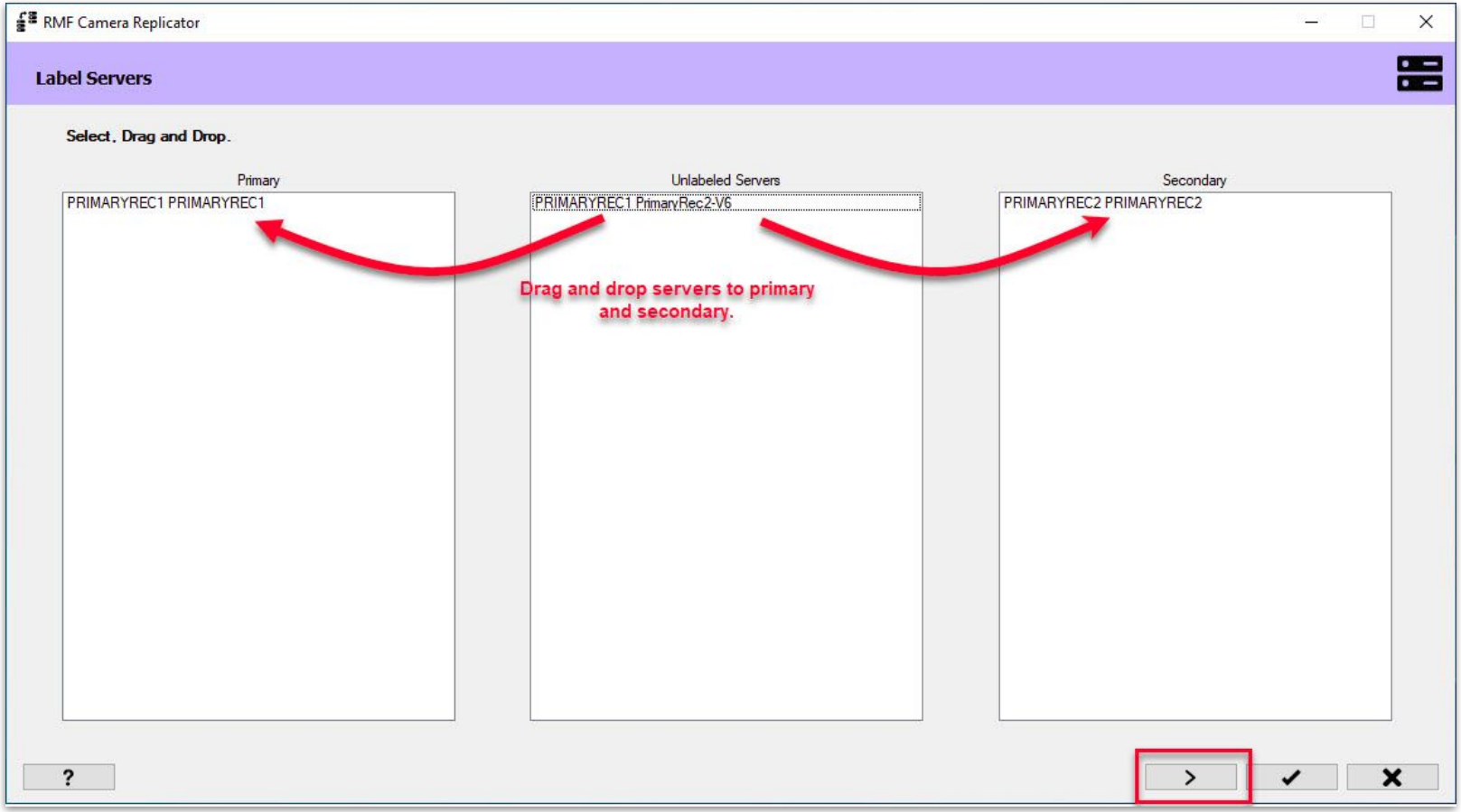
<u>Step 1</u>: Click the **Launch Camera Replicator** button. The **RMF Camera Replicator** helps to copy cameras seamlessly from parent recording servers to redundant recording servers.
Note: A Minimum of two servers should be configured to replicate cameras.



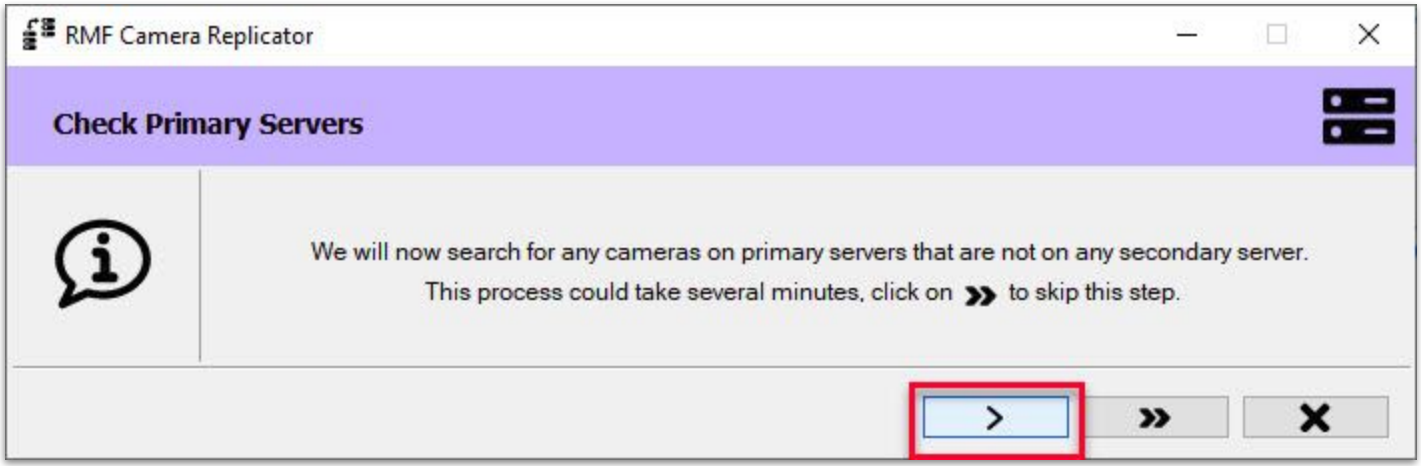
<u>Step 2</u>: Login into the parent server as a domain user with admin privileges.



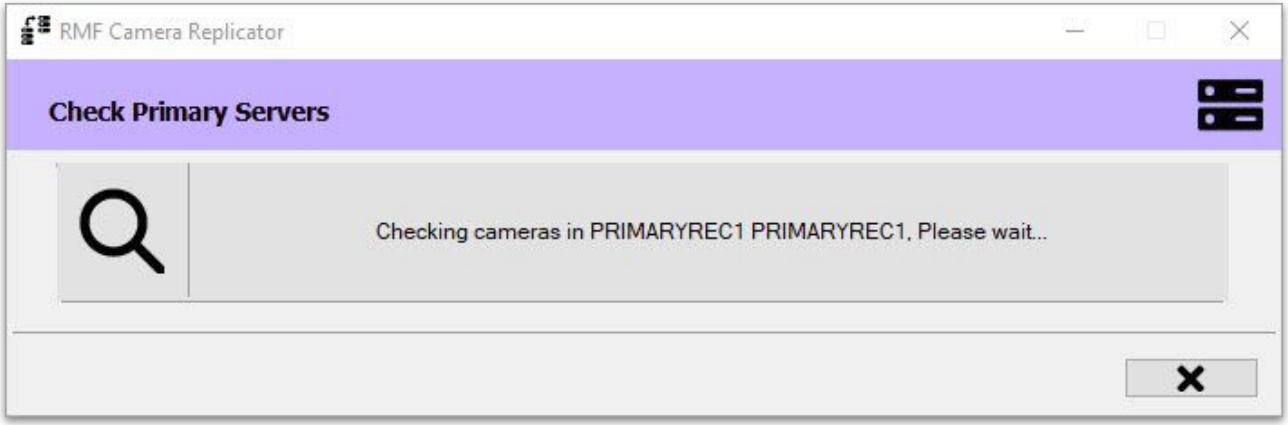
<u>Step 3</u>: Labelling Servers - A list of recording servers are displayed. **Parent (Primary) and Child (Secondary) servers must be labeled** to proceed with further configuration.

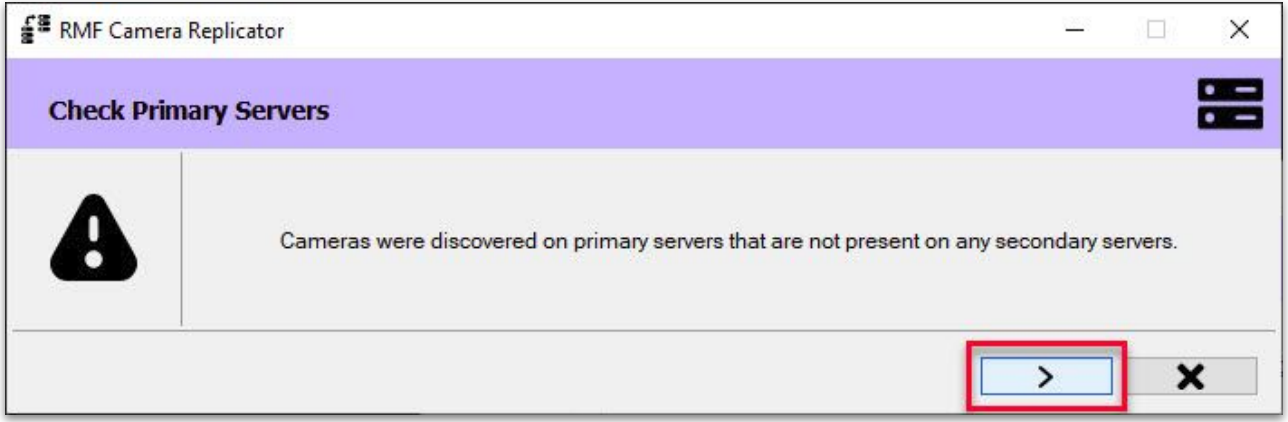


<u>Step 4</u>: Drag a server from the **Unlabeled Servers** list and drop it into the **primary** list. Similarly, drag and drop to the **secondary** list. Click **Next**.

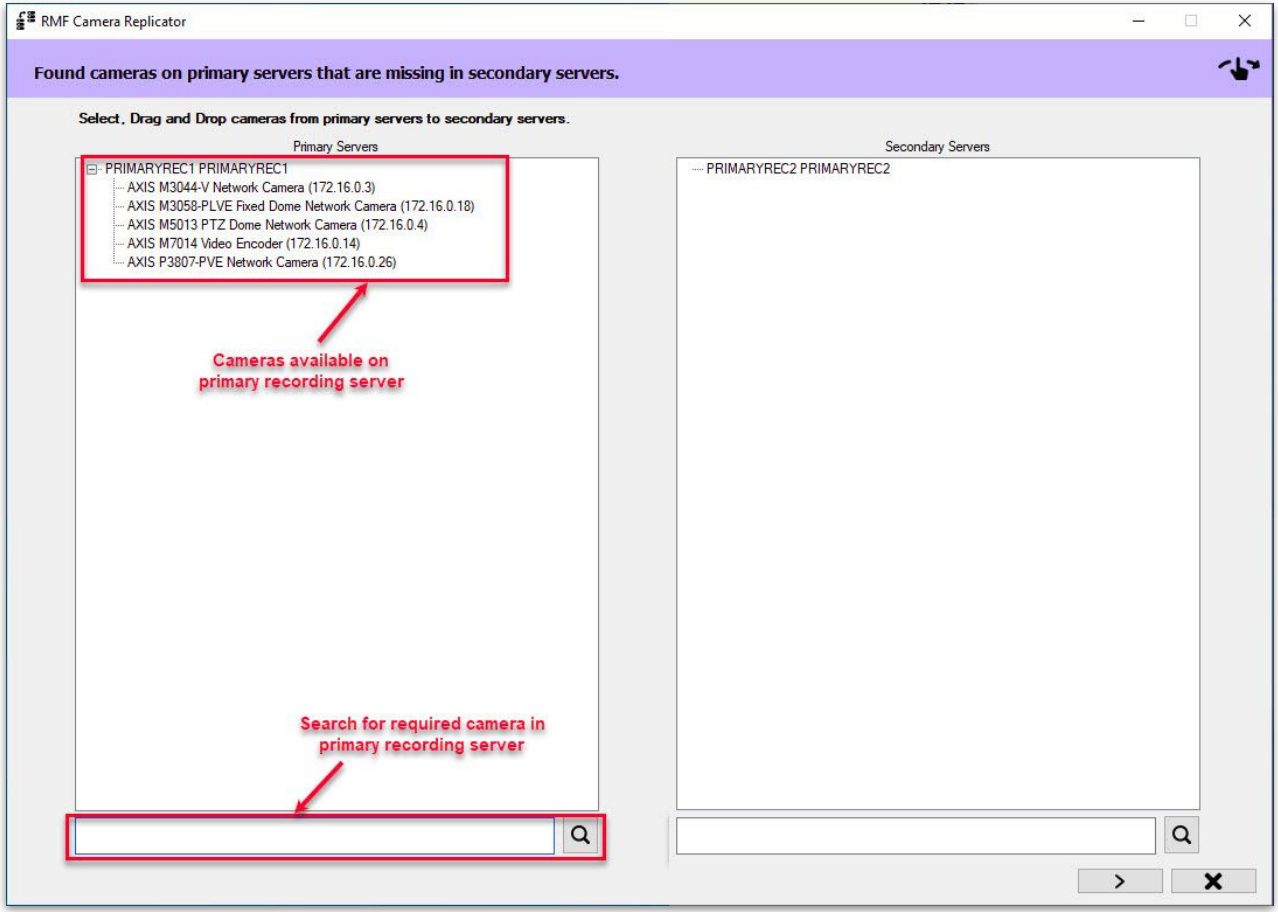


Step 5: Click **Next** to search for the **cameras on the parent site, not on the child site**.

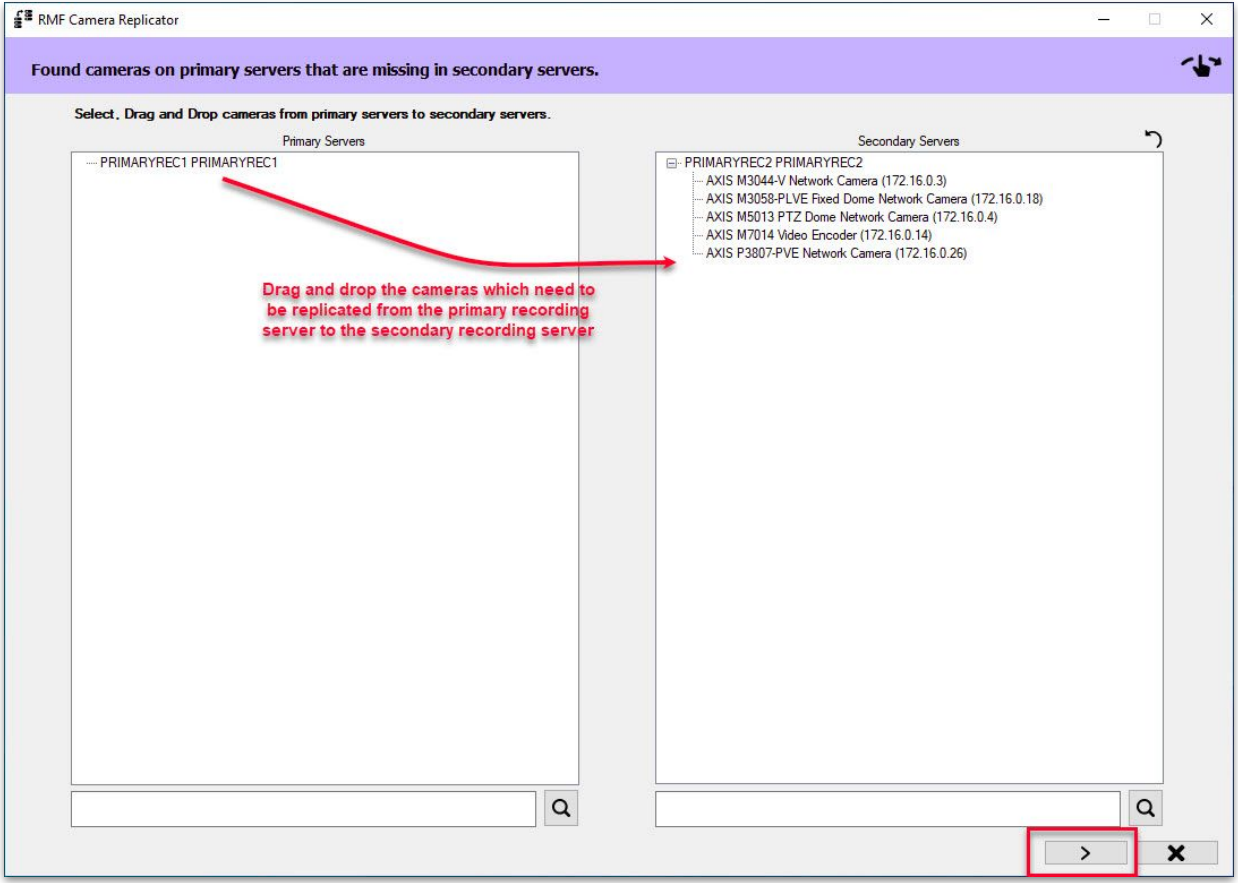




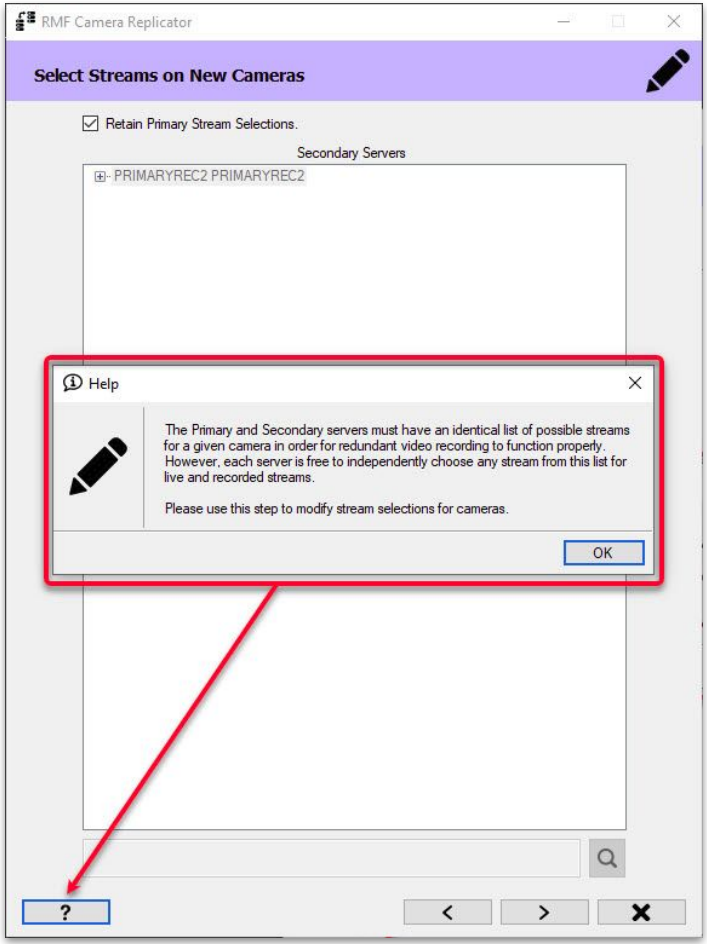
Step 6: Click **Next** to see the list of cameras found on the parent site and not on the child site.



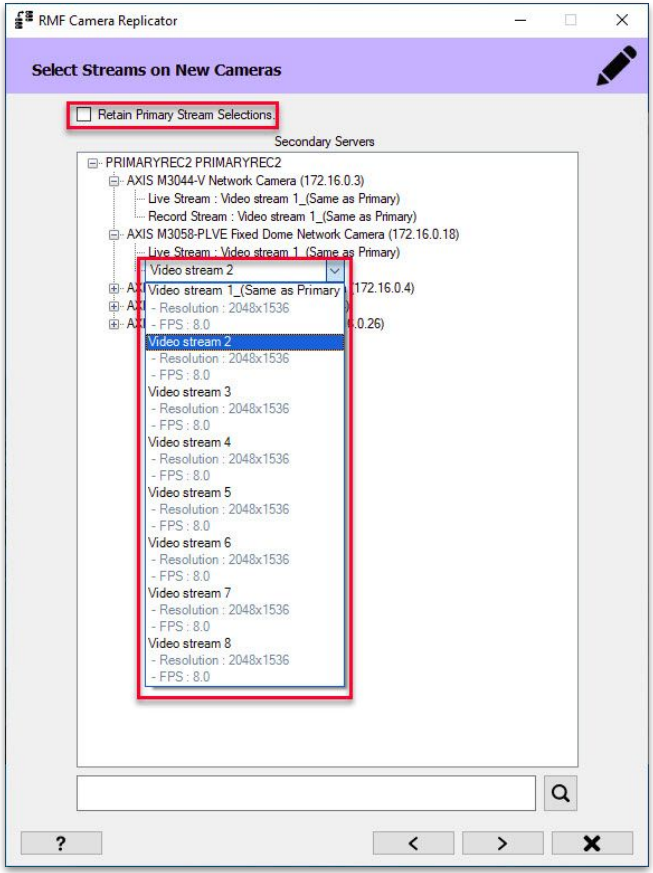
<u>Step 7</u>: Cameras **found on the parent**, not on the child, are **listed** under primary servers. Click the **Search button** to find a specific camera from the list.



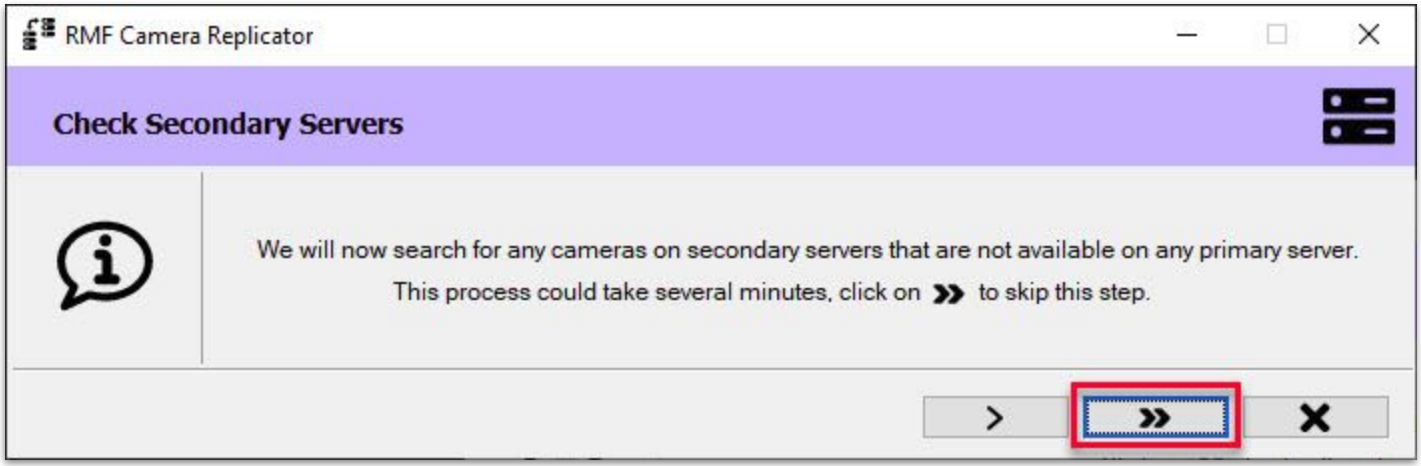
<u>Step 8</u>: Drag and drop the cameras that have to be replicated from the primary servers (parent) to the secondary servers (child).
Click **Next**.



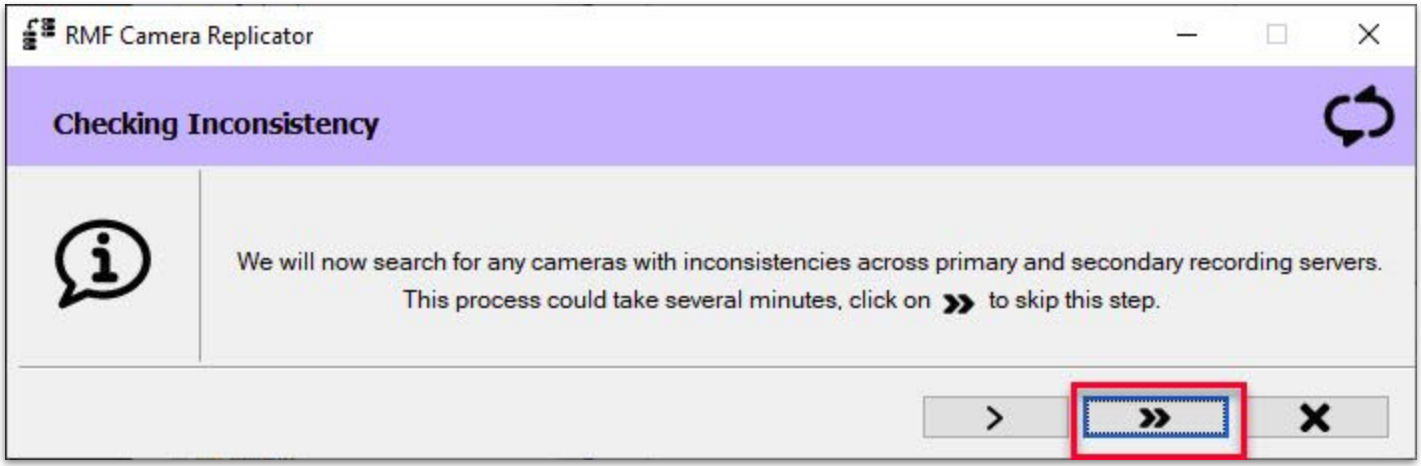
<u>Step 9</u>: Skip this step to copy the same stream configurations as in the parent.



<u>Step 10</u>: Uncheck the Retain Primary Stream Selections to change the stream configuration (video profile) for recording and live streaming for the selected camera in the child site.

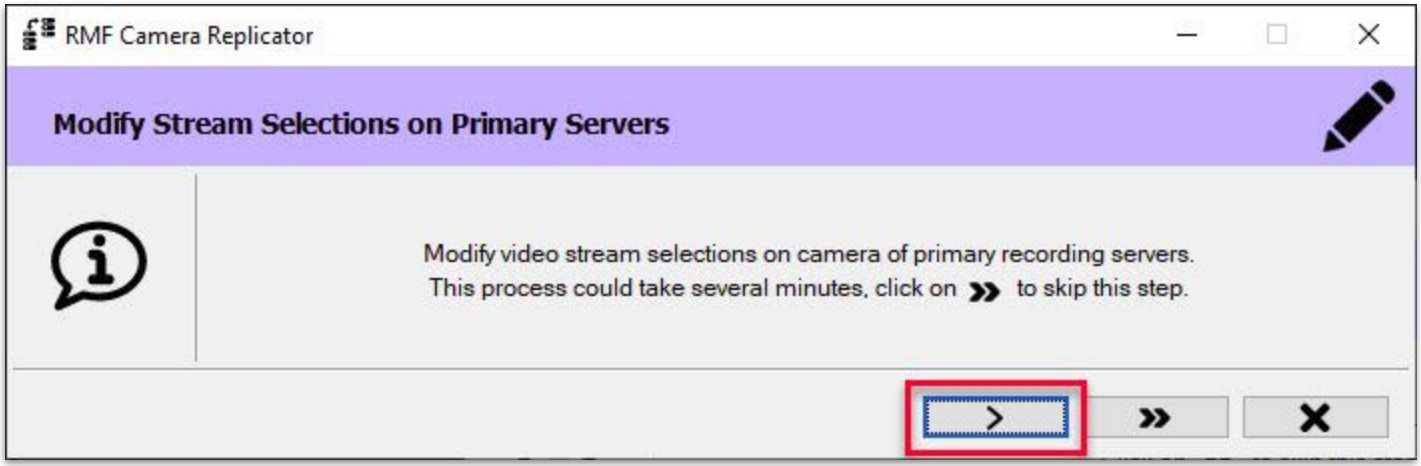


<u>Step 11</u>: Click **Skip**, as we have added cameras only on the parent site and replicating the same to the child site.
Note: Click **Next** if you want to find and replicate cameras from the child site.

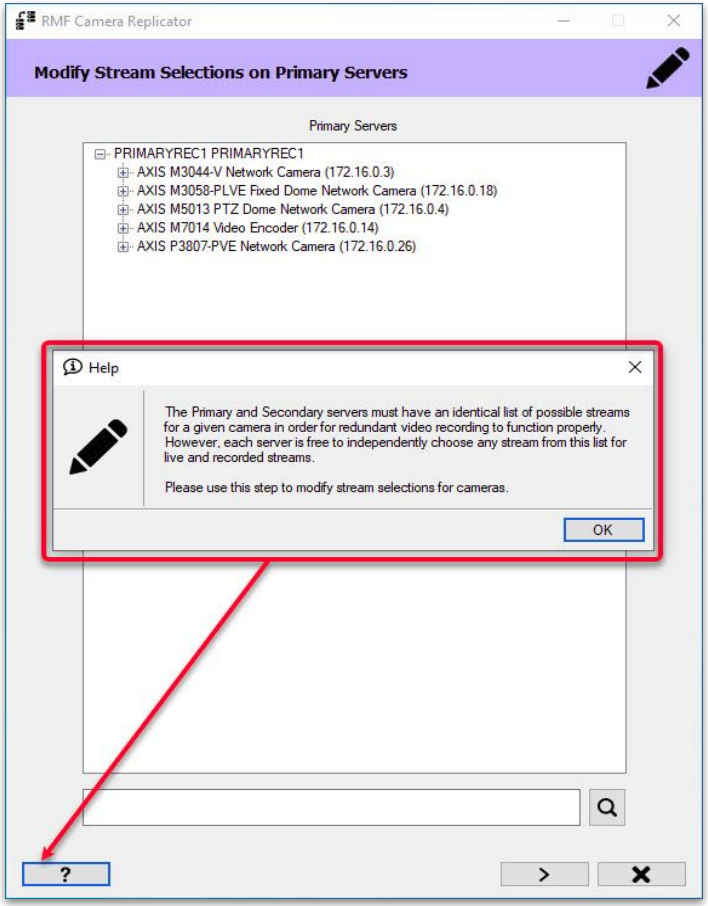


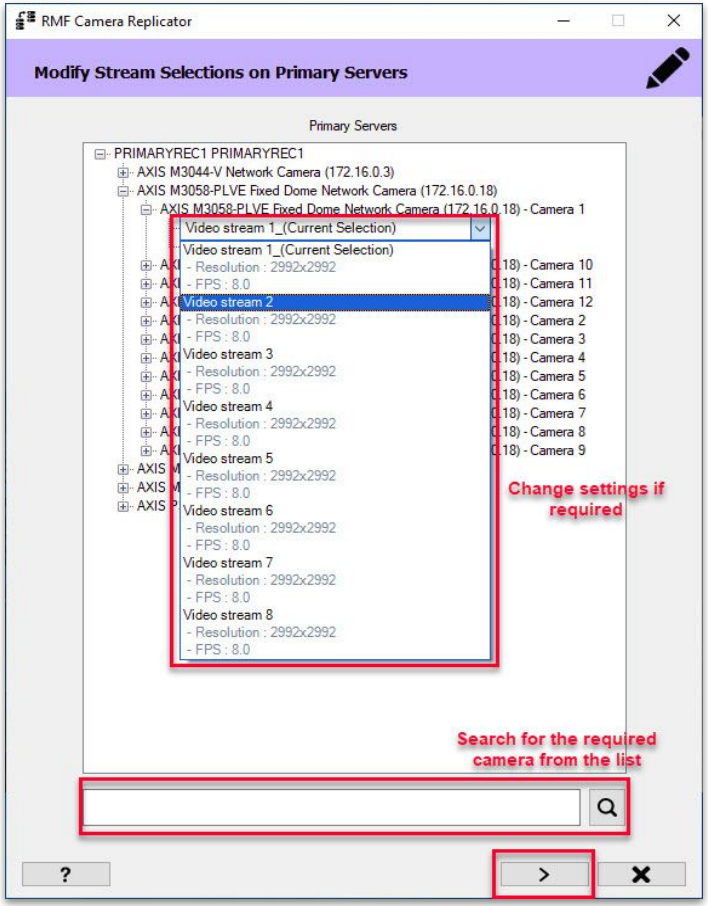
Step 12: Click **Skip,** we are configuring system for the first time and we do not have any cameras on the child site to check inconsistencies.

Note: Click **Next** to check for inconsistencies, If there are cameras on both the parent and child sites.

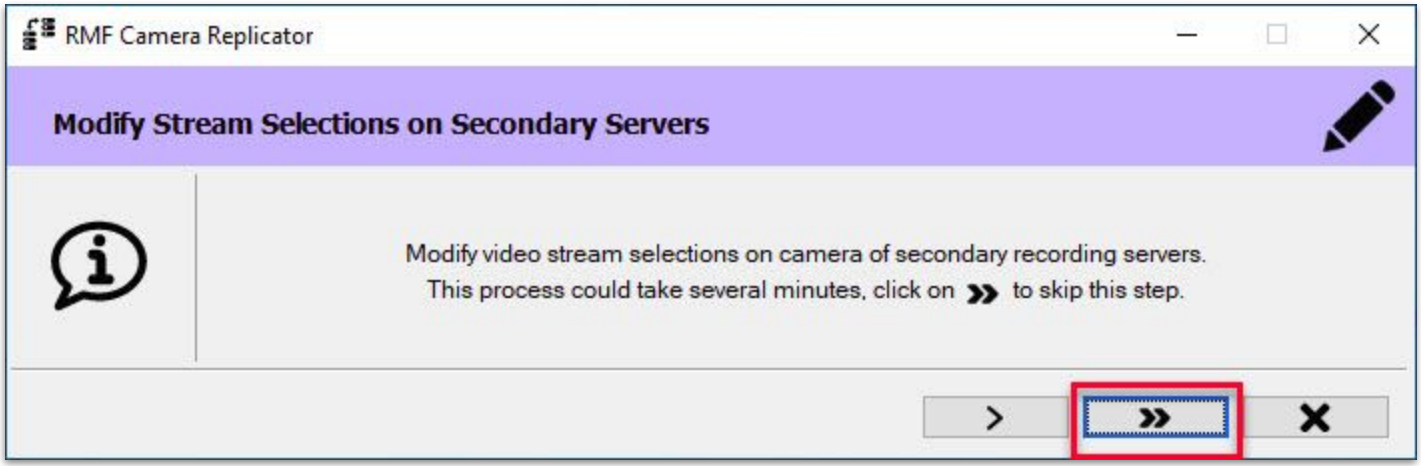


Step 13: Click **Next** to modify the video stream selection for the cameras on parent recording servers, if required.
Note: Click **Skip** to continue with the setup without modifying video stream selection on parent site cameras. (Goto **Step 15**)

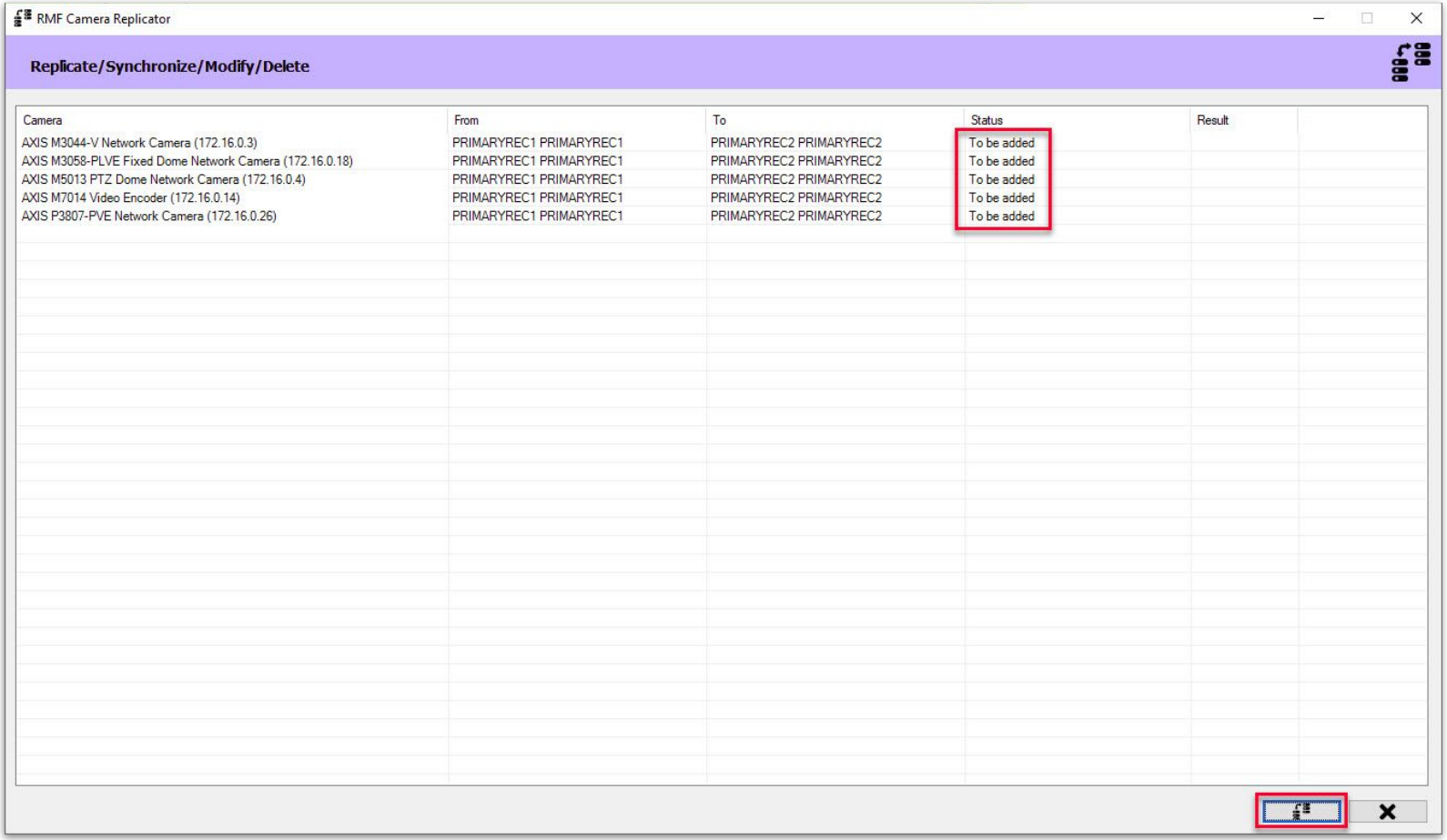




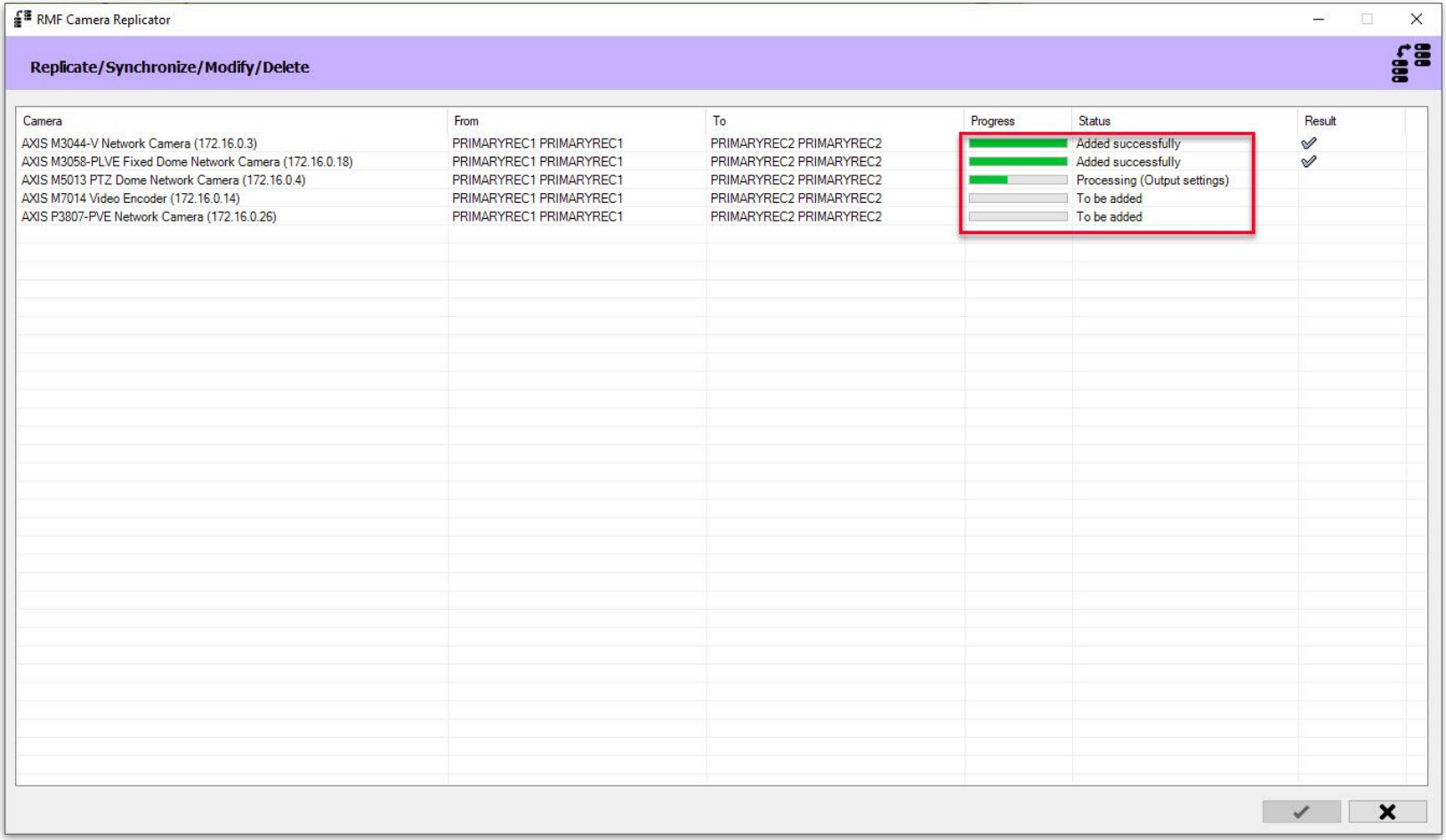
Step 14: Modify the video stream configuration for the cameras on parent recording servers, if required. Click **Next** and continue with the setup.



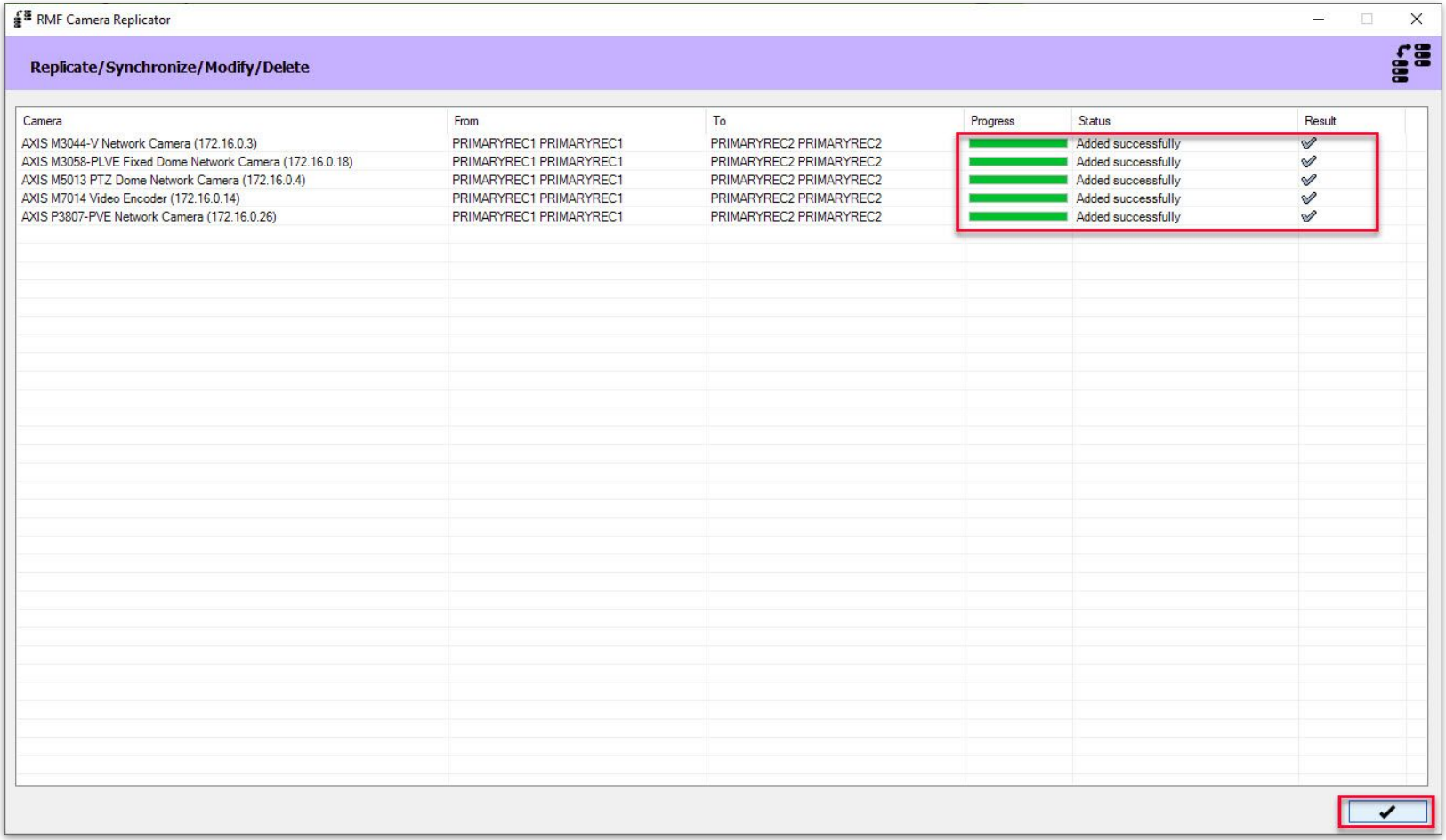
<u>Step 15</u>: Click **Skip** to continue the replication process.
Note: Click **Next** to modify the stream selection on cameras of child recording servers, if there are cameras on the child recording server.



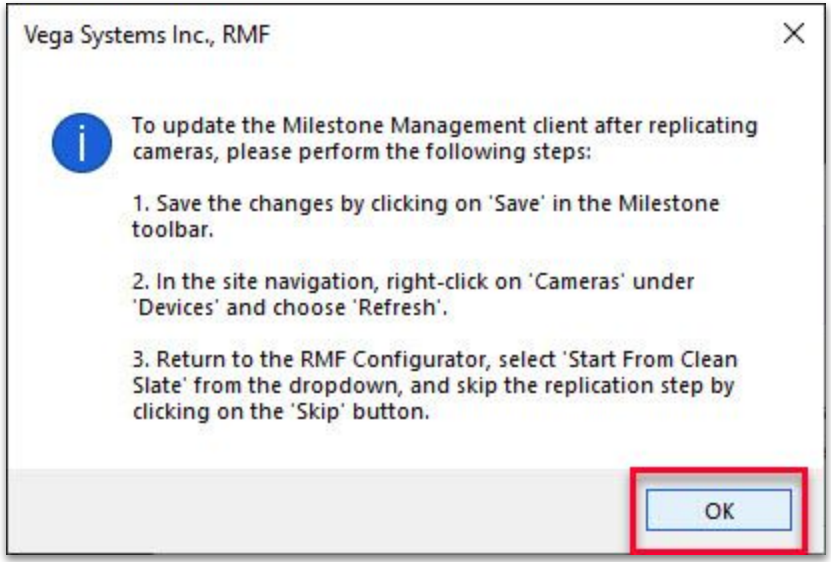
Step 16: Cameras selected for replication are listed.
Click the **Replicate** button to copy the chosen cameras in the previous steps.

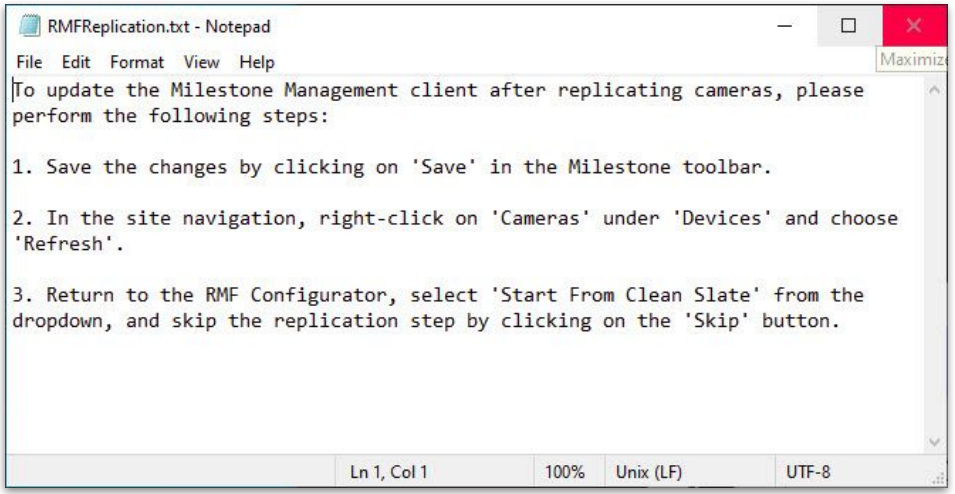


<u>Step 17</u>: The **status of the replication** of each camera is shown in the list.

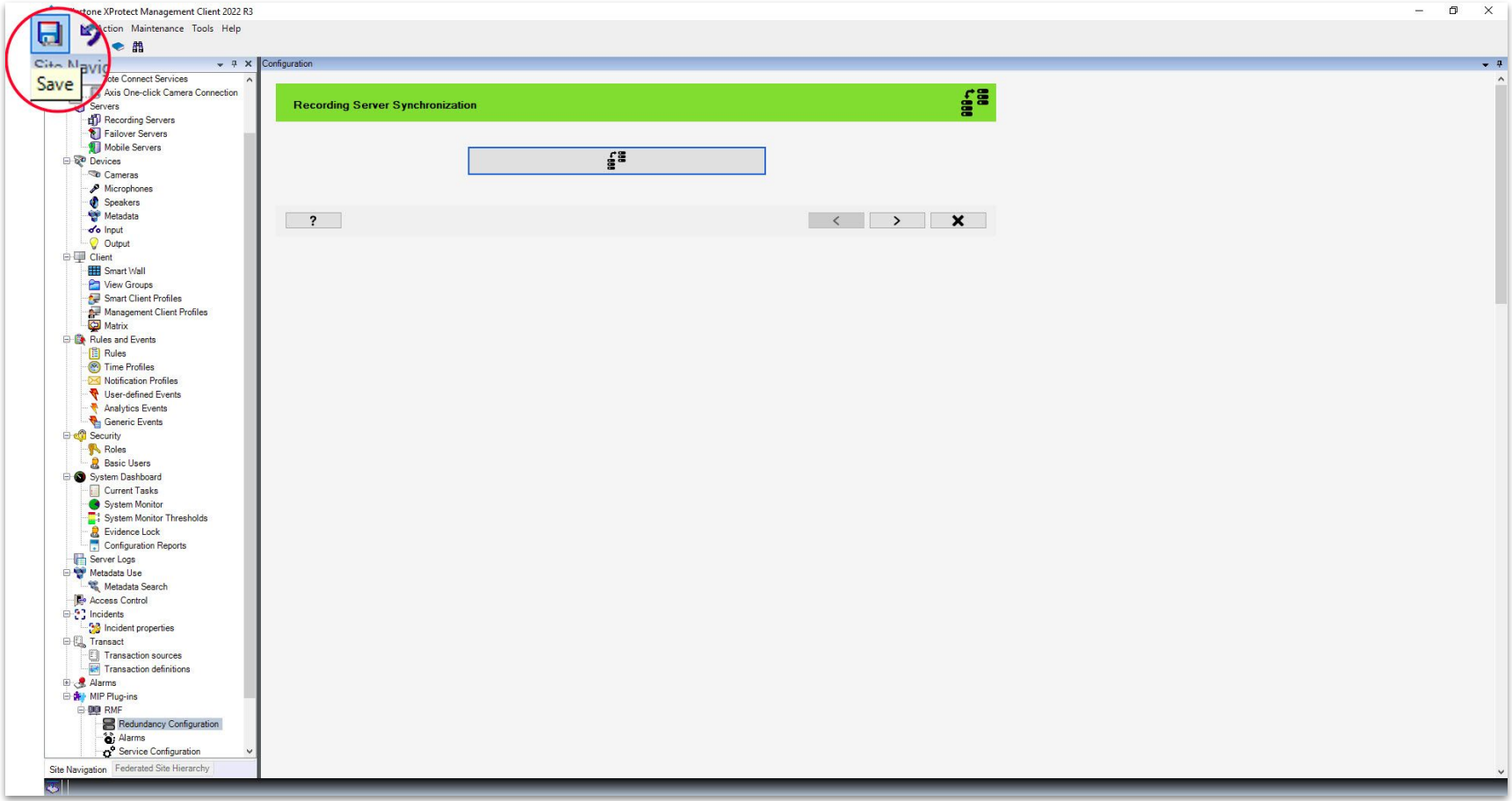


Step 18: Click the **Finish** button to complete the replication process.

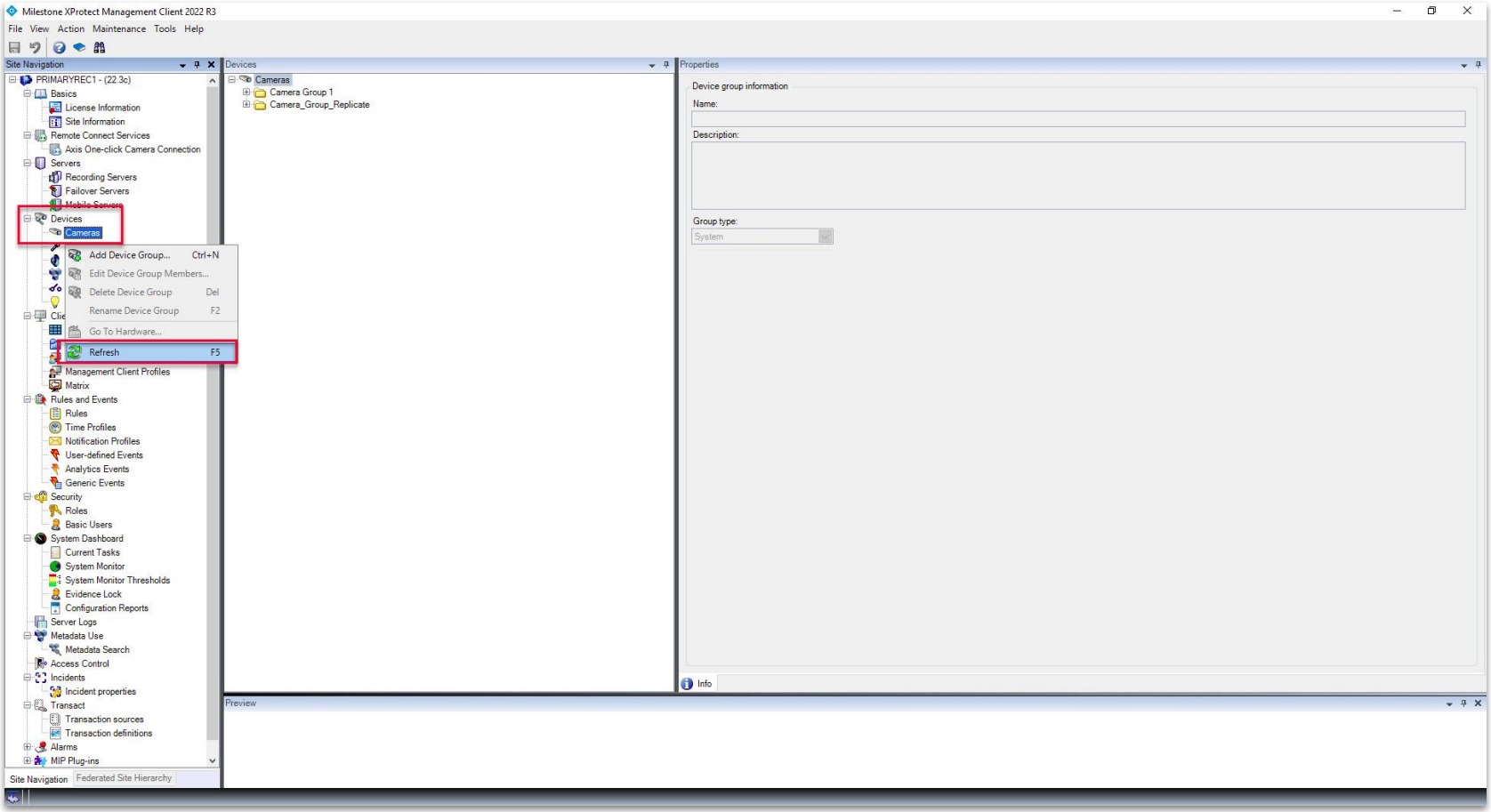




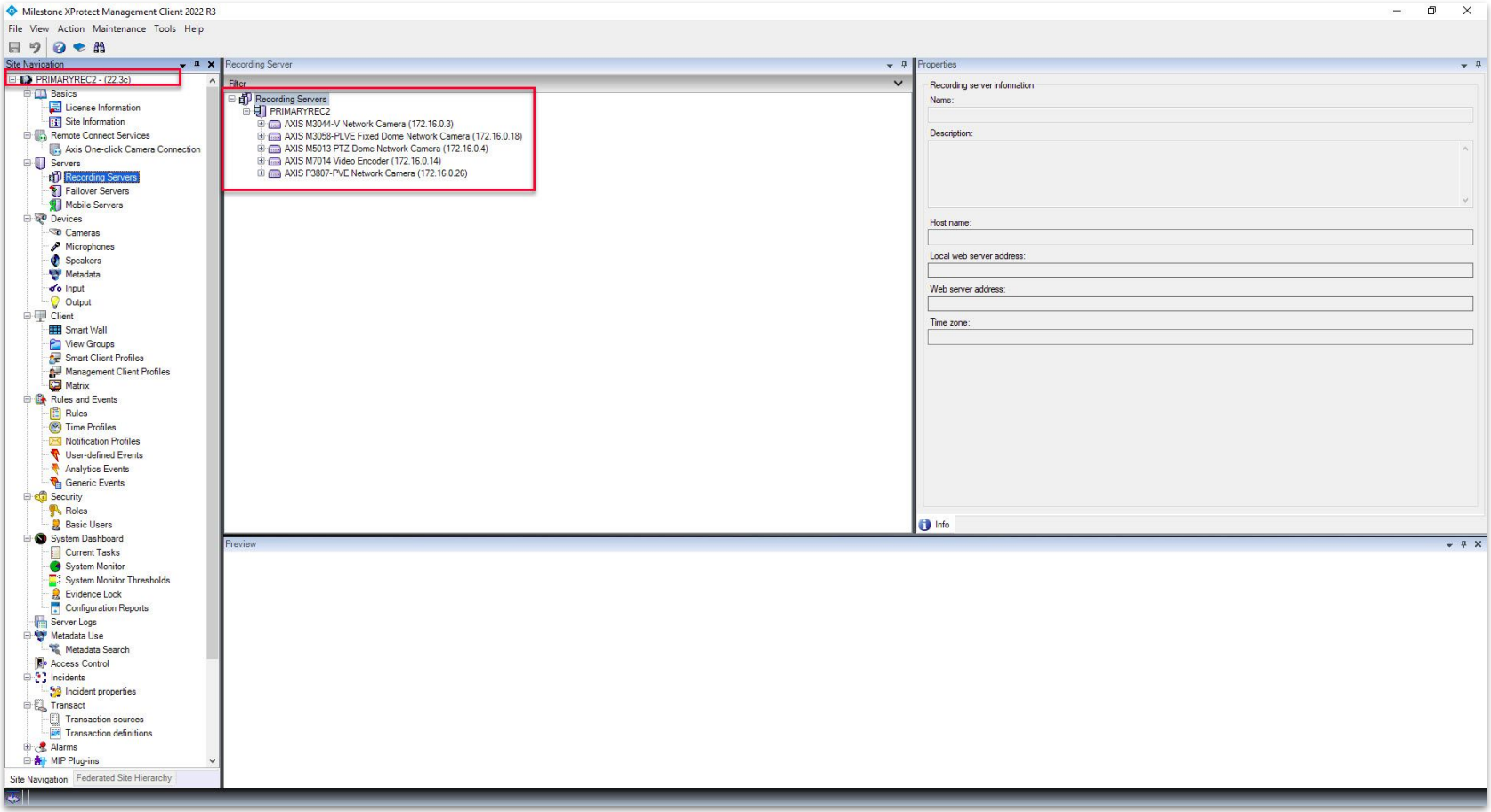
<u>Step 19</u>: Follow the steps mentioned above and **continue with the configuration**.



<u>Step 20</u>: Save the settings as shown above.



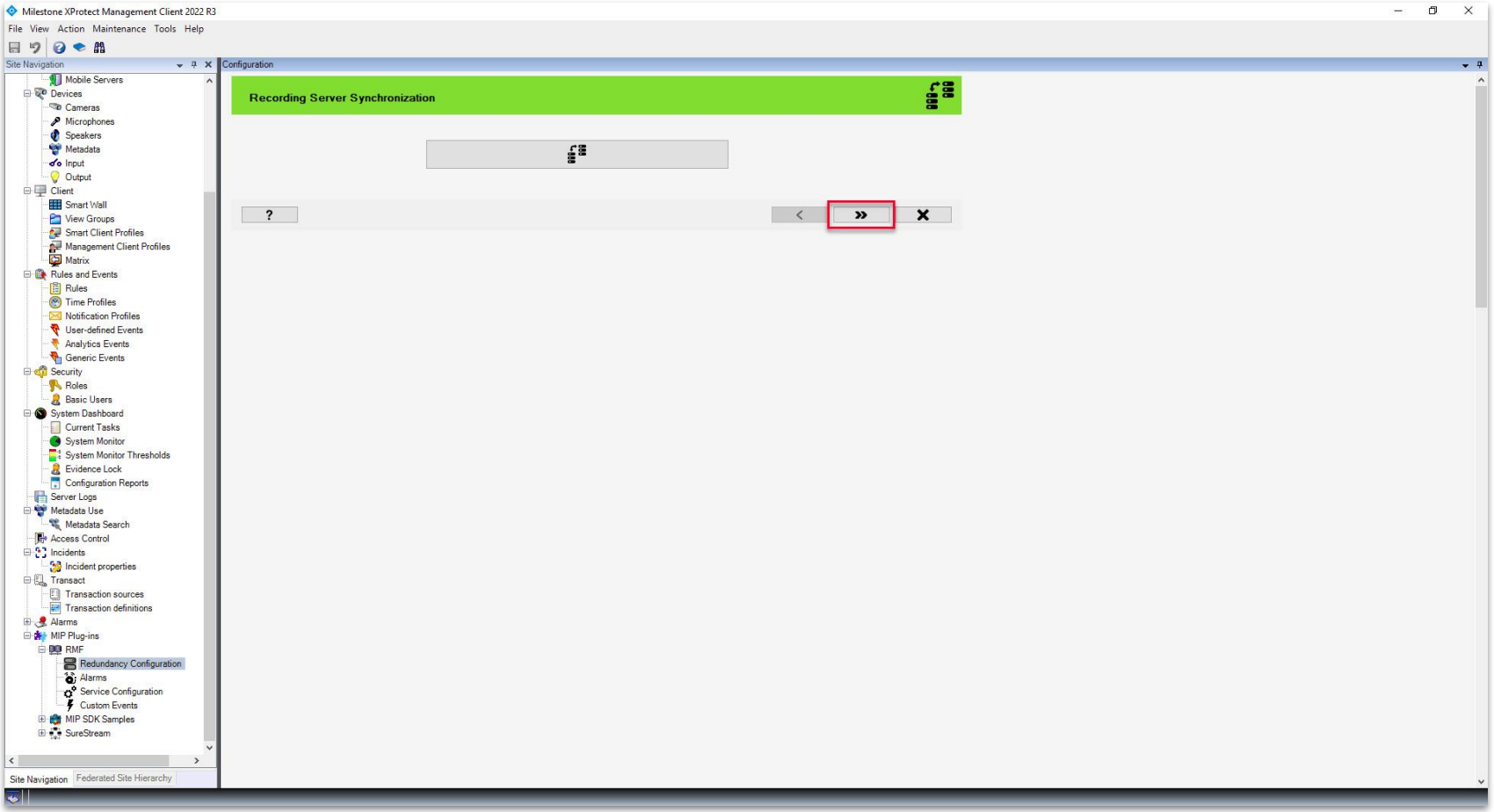
<u>Step 21</u>: Refresh the camera list as shown above to continue with the configuration.



<u>Verification Step:</u> The camera list of the child recording server after replication.

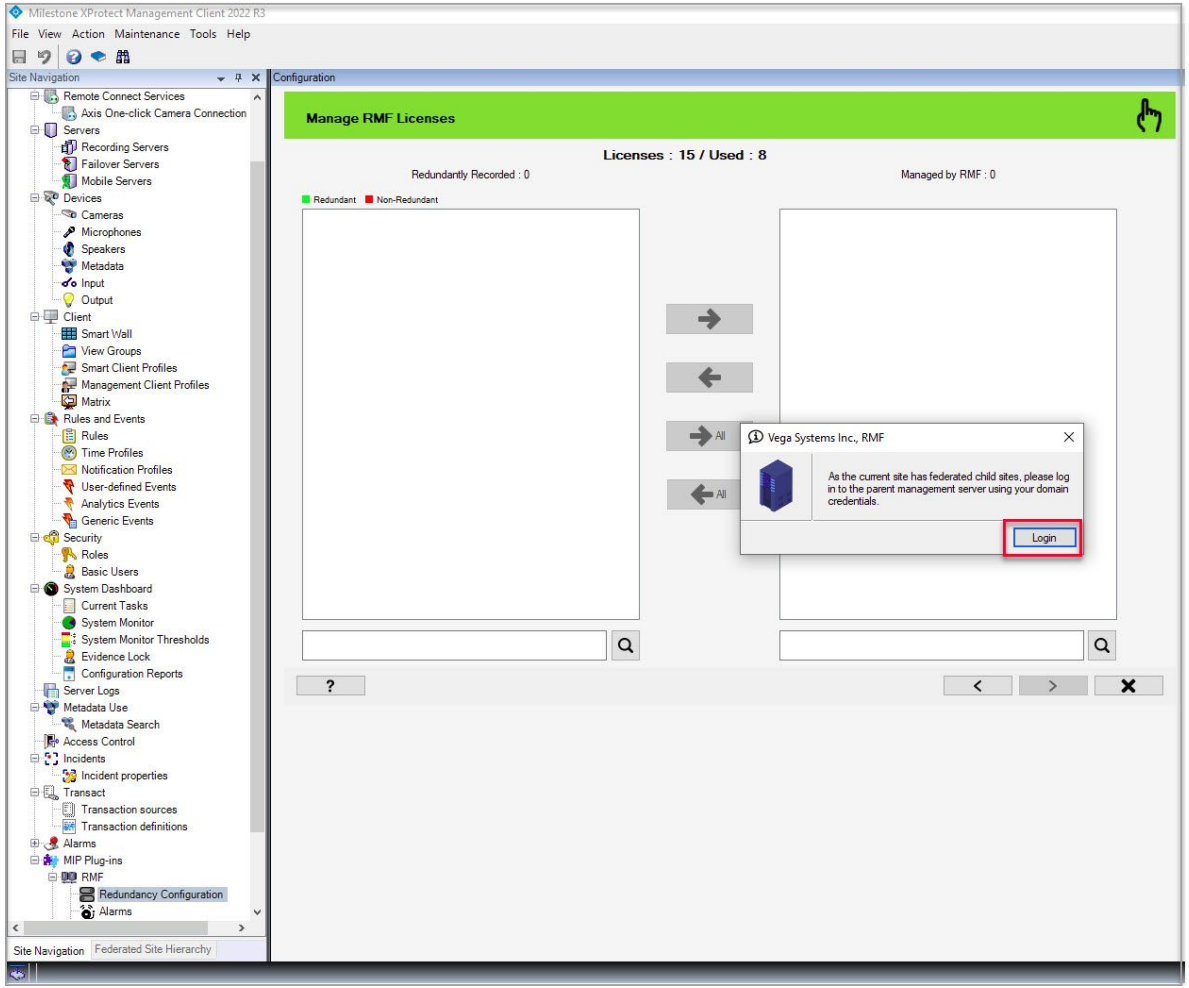
Note: All the selected cameras are replicated on the child recording server.

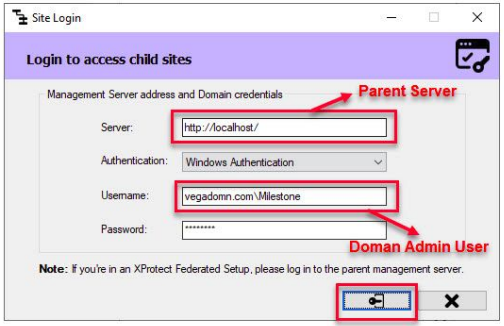
Part 3: Configuration



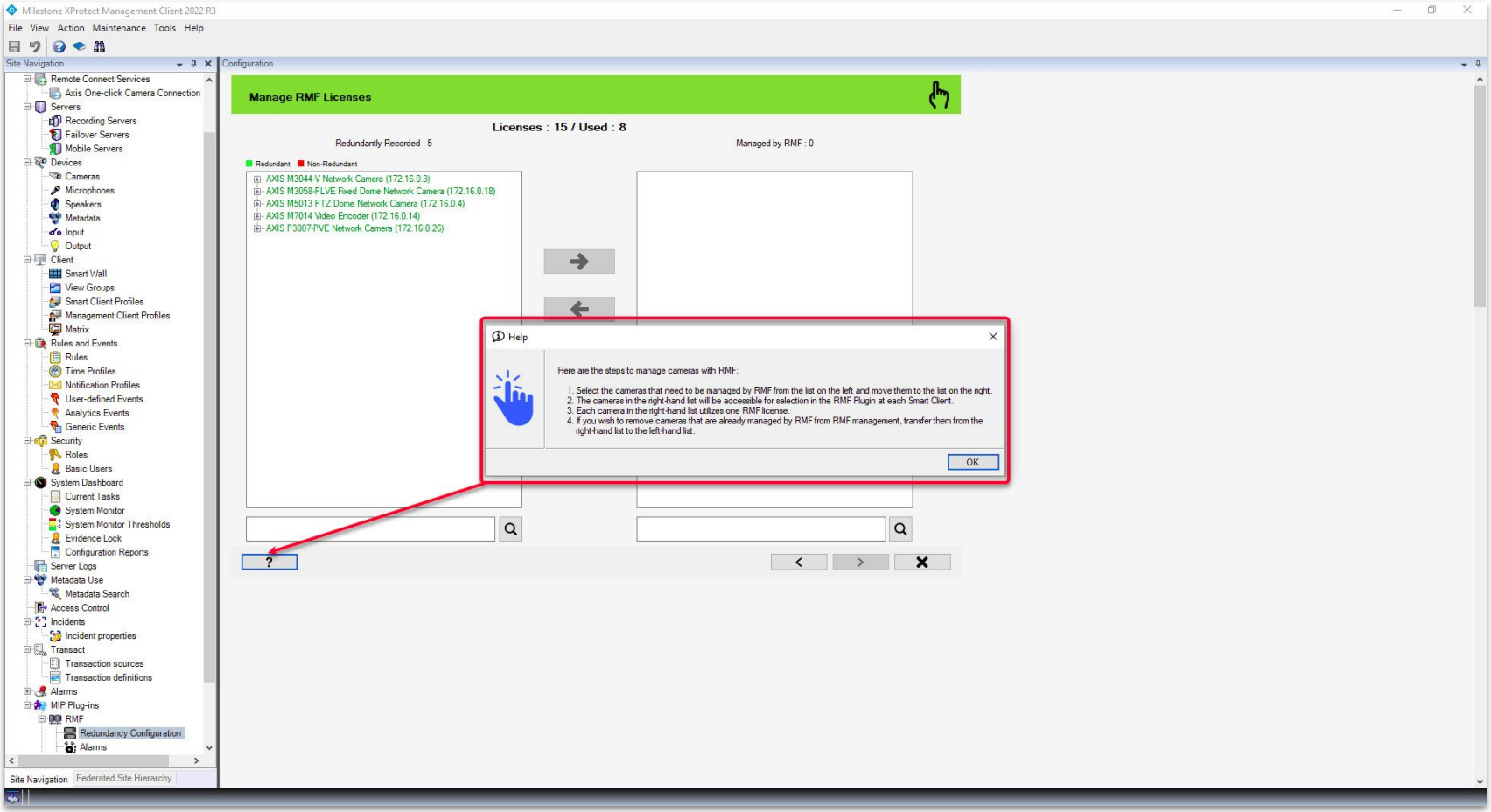
<u>Step 22</u>: Goto **RMF→ Redundancy Configuration**.

Select **Start from Clean Slate Option** and **skip the replication** step.

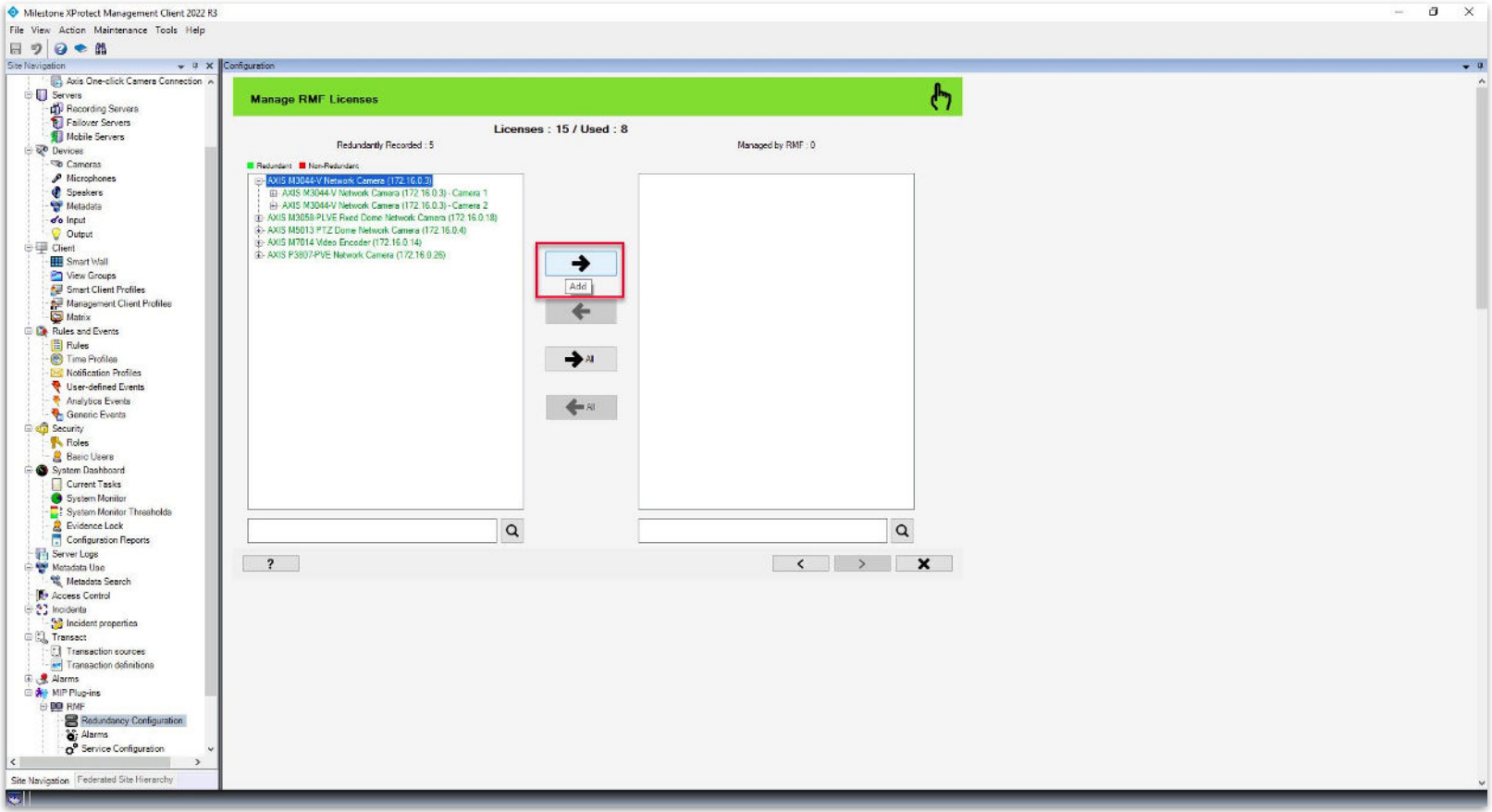




Step 23: Login into the parent management server as a domain user with admin privileges.



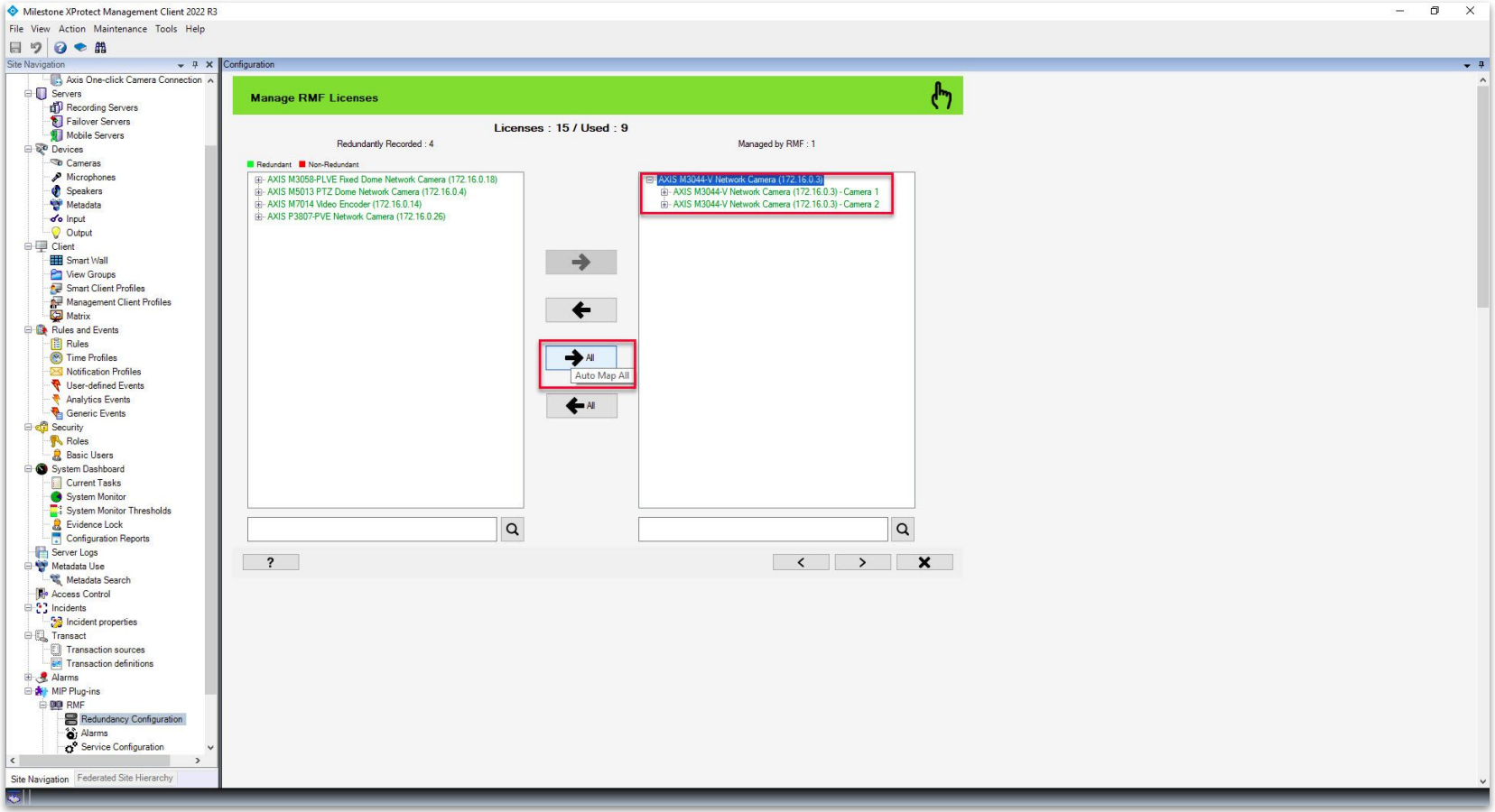
Step 24: The **redundantly recorded cameras** from the parent and the child recording servers are listed.



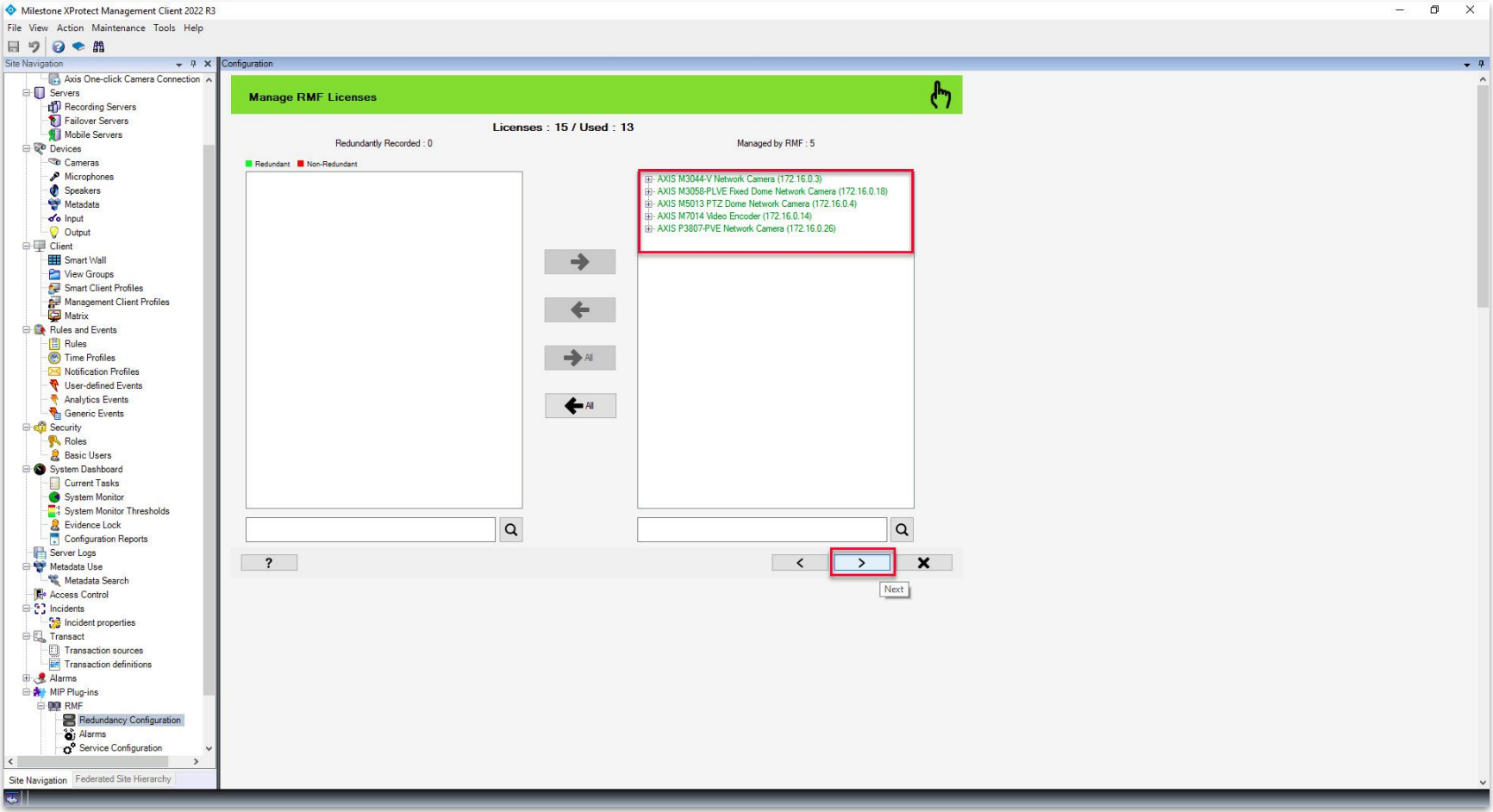
<u>Step 25</u>: Select the cameras that RMF must manage from the list.

Click **Add** to move the cameras from the redundantly recorded list to Managed by RMF list.

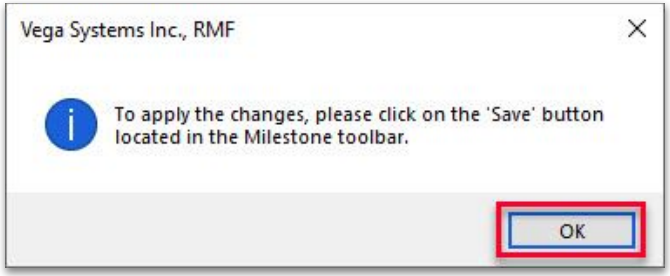
Note: RMF license is assigned to the selected cameras.

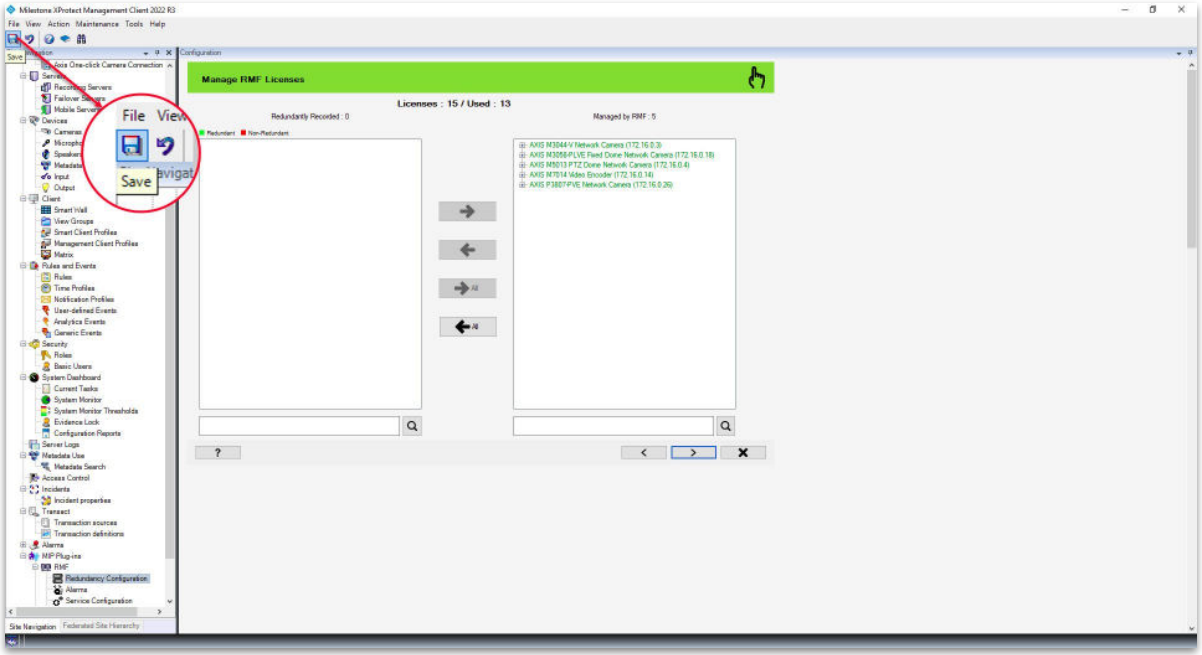


<u>Step 26</u>: Click **Add All** to move all the cameras from the Redundantly Recorded List to the Managed by RMF list.

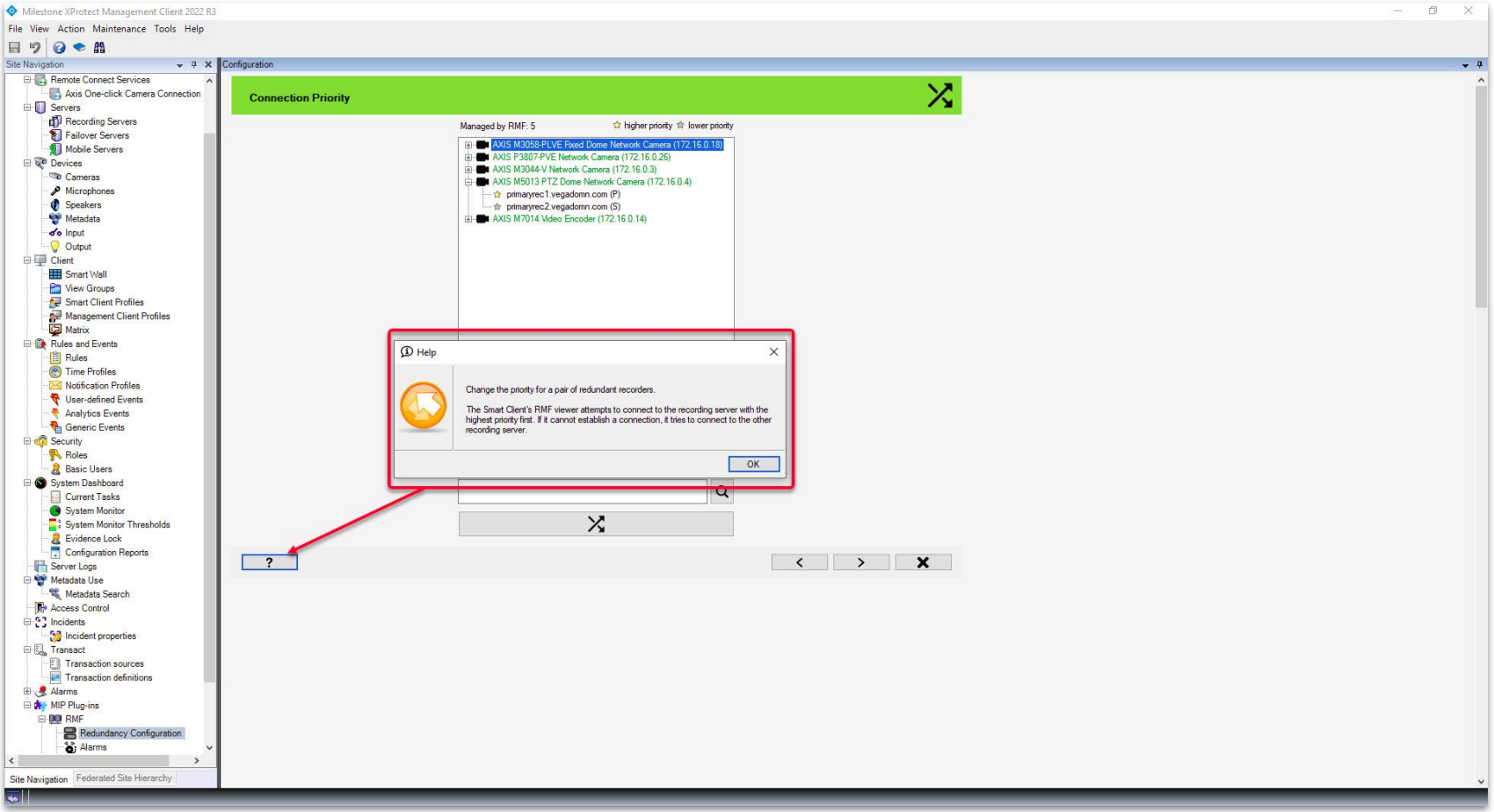


Step 27: Click **Next** after the cameras are selected.

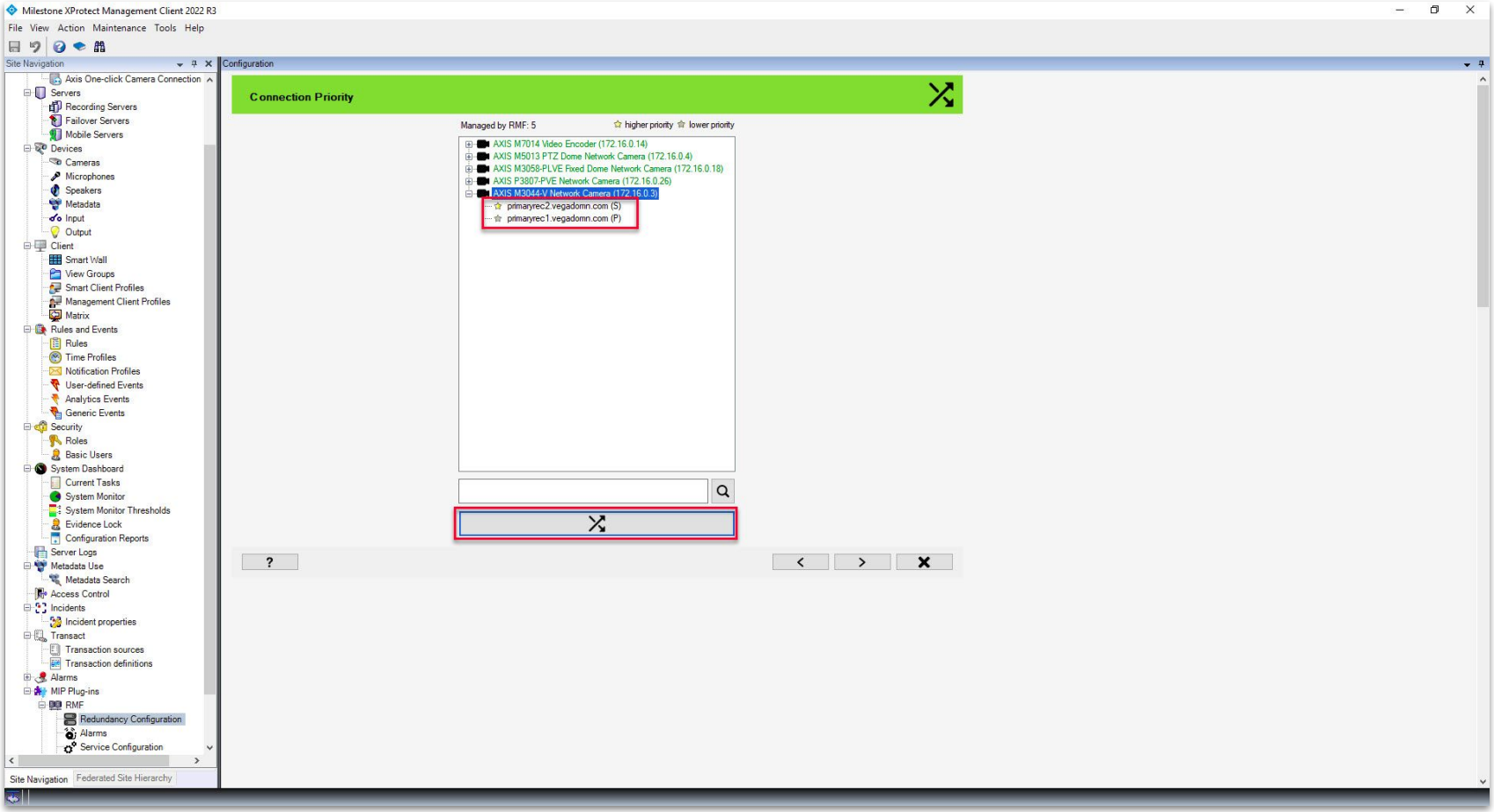




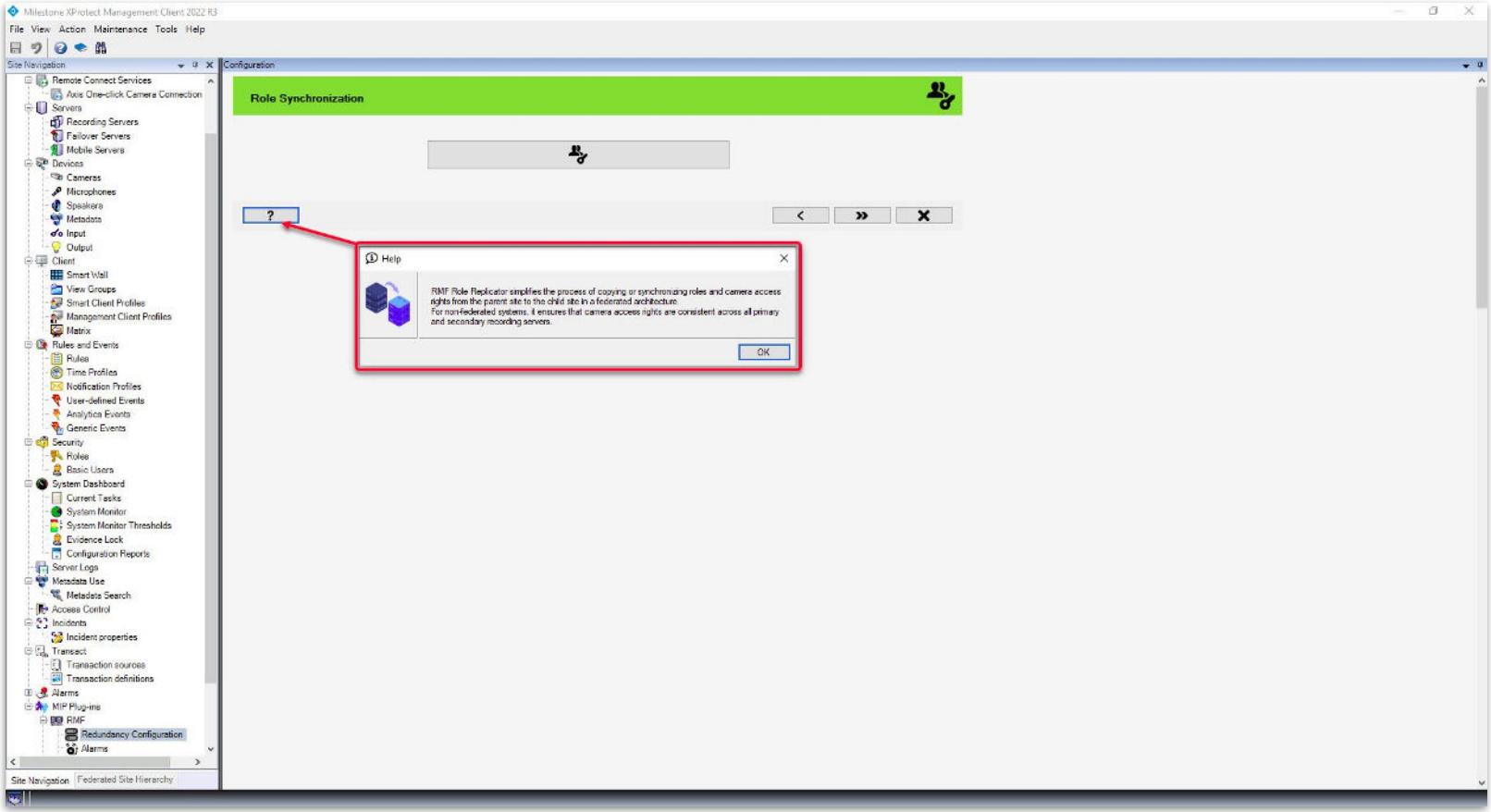
<u>Step 28:</u> Save the changes before proceeding with the configuration.



<u>Step 29</u>: Change the **connection priority order** for each camera if required.
By default, Smart Client tries to connect to higher priority first.



<u>Step 30</u>: Select the camera and click the **Swap** button to change the connection priority. Click **Next**.



<u>Step 31</u>: The **RMF Role Replicator** helps to synchronize roles and camera access rights seamlessly from the parent site to the child site.

Adding Roles

Refer to Setting up High Availability Roles & Smart Client Views for adding roles to the parent site and role replication.

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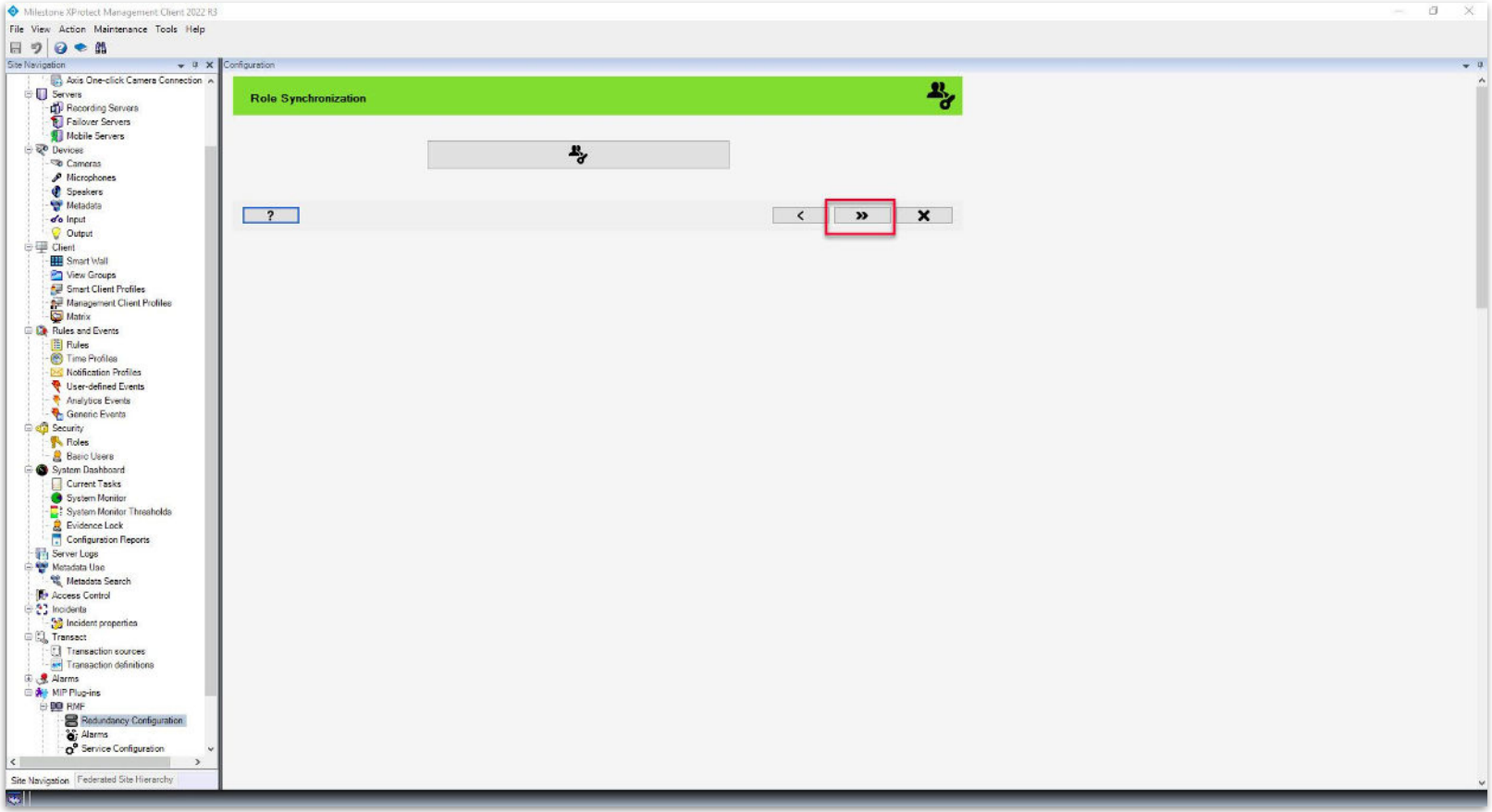
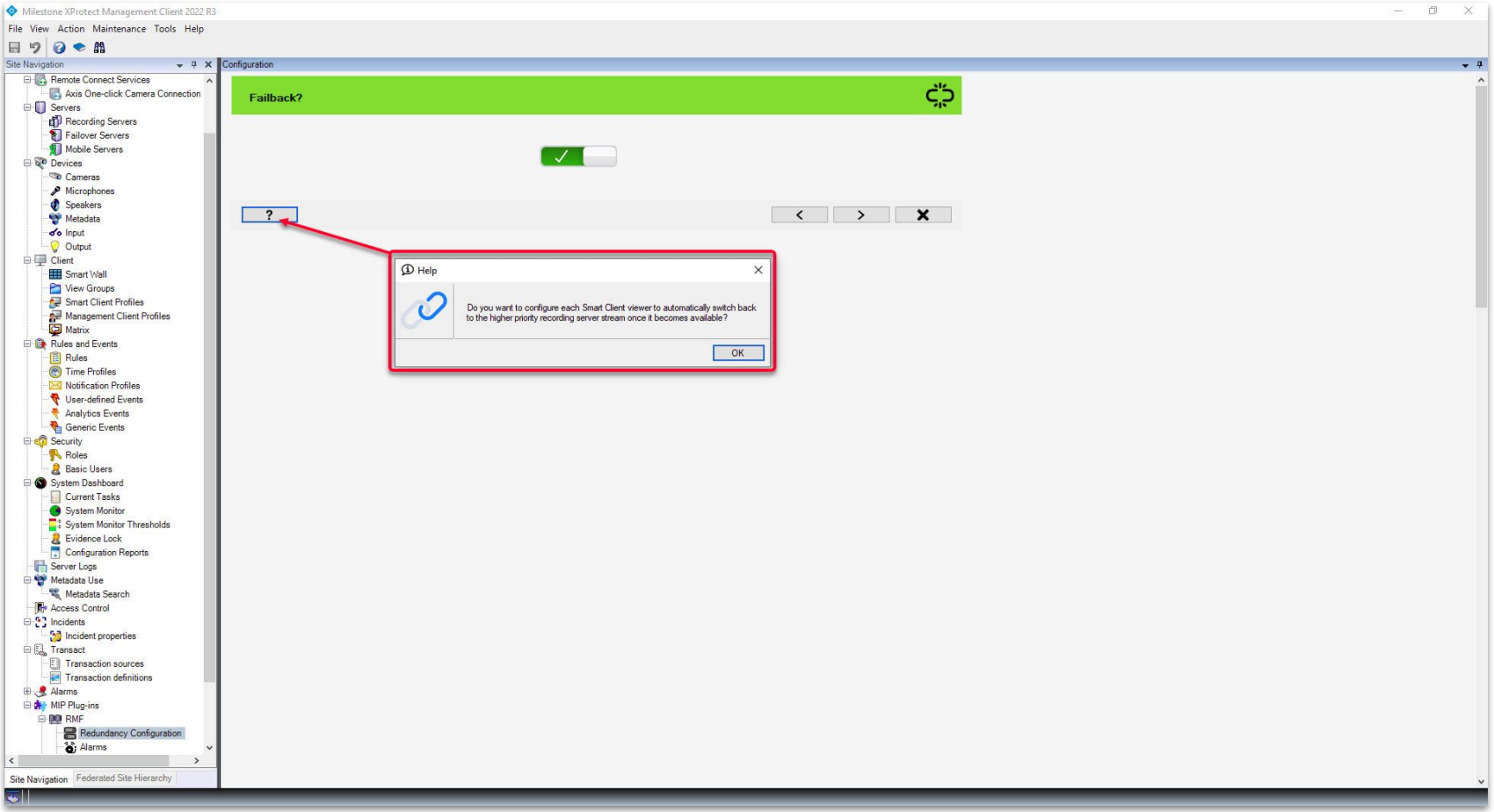


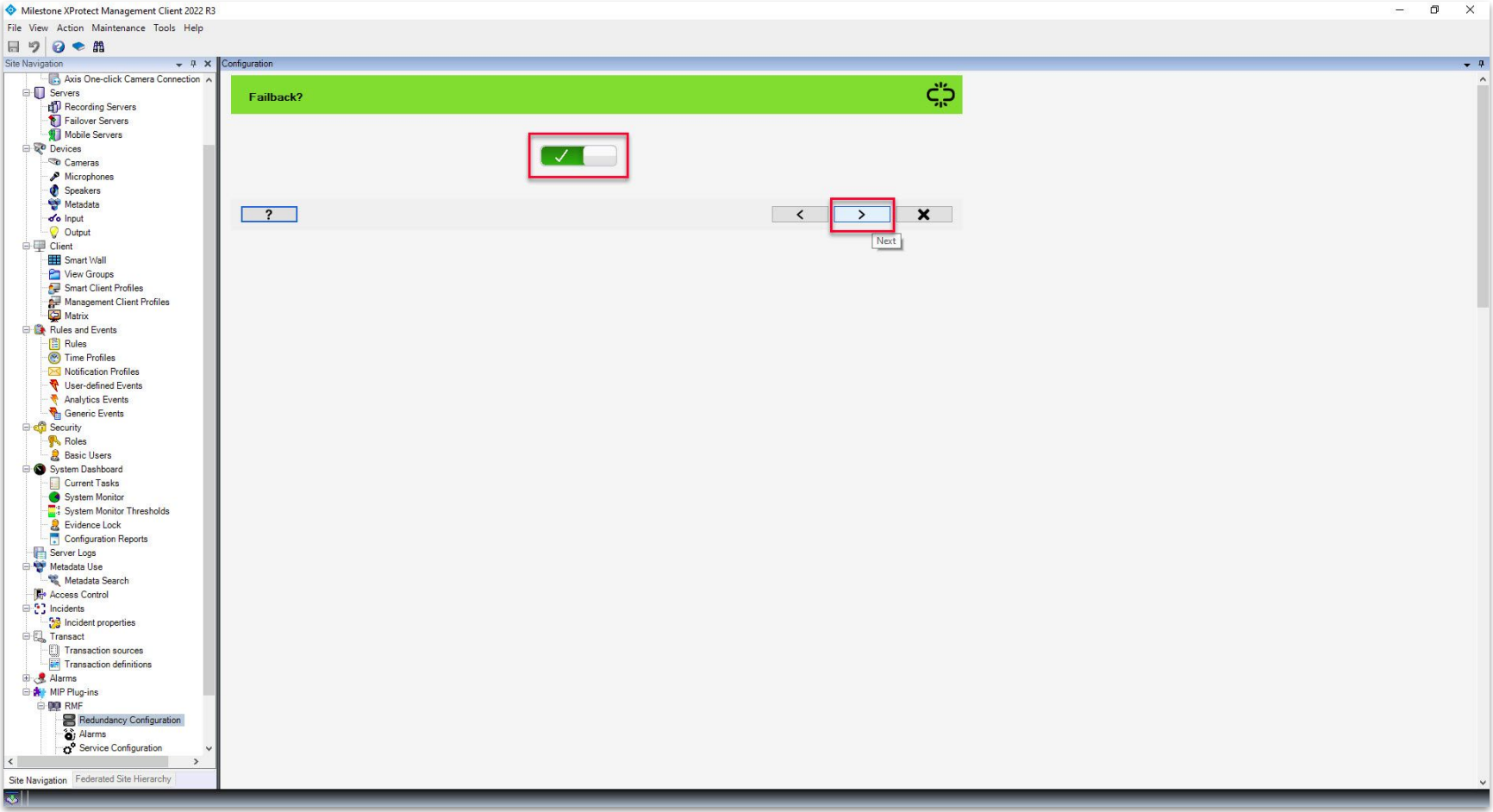
Step 32: Click **Skip** to continue with the configuration.

At any time, launch the Role Replicator to ensure that the roles are synchronized.

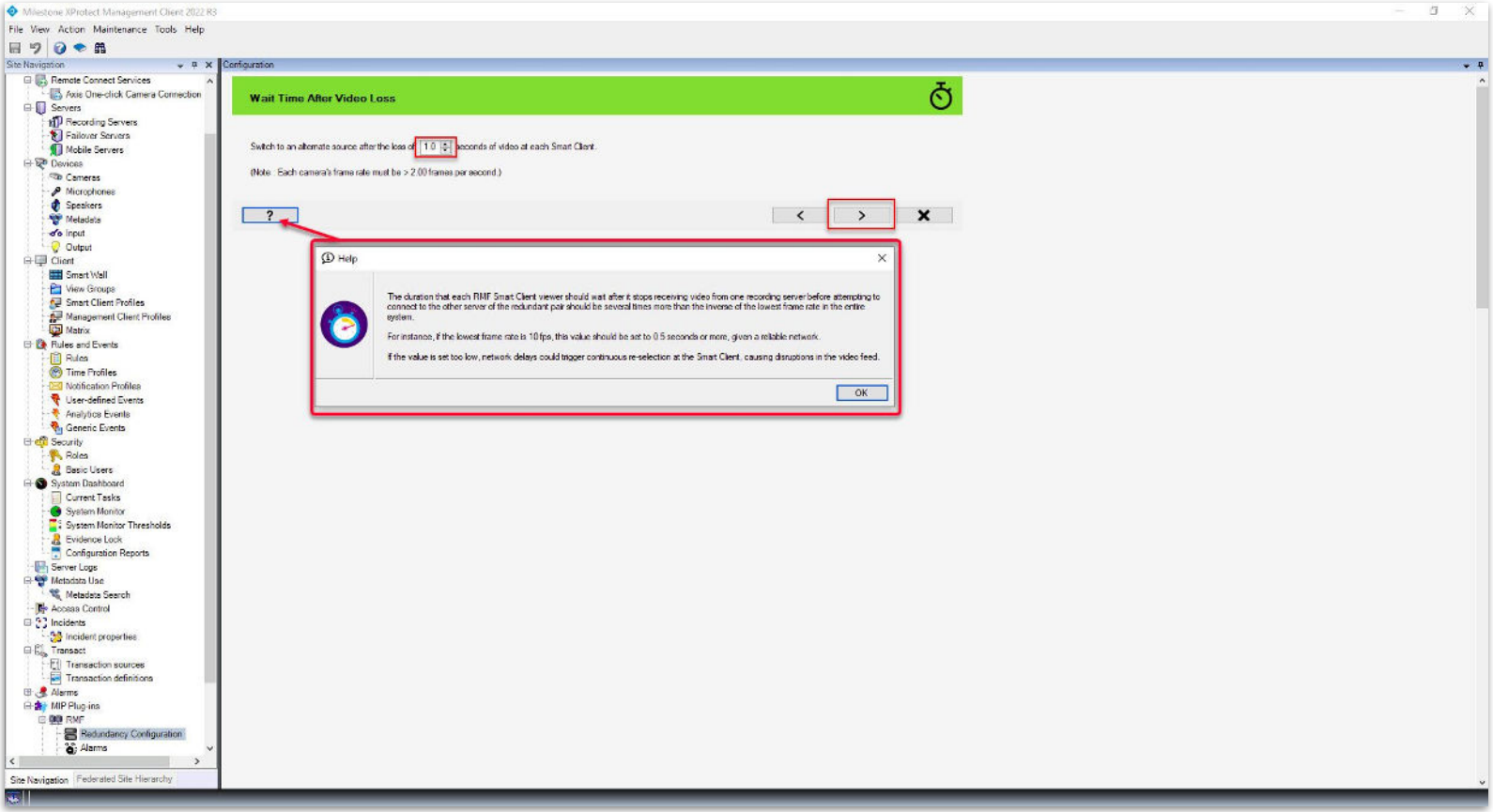


<u>Step 33</u>: Configure the **failback.**

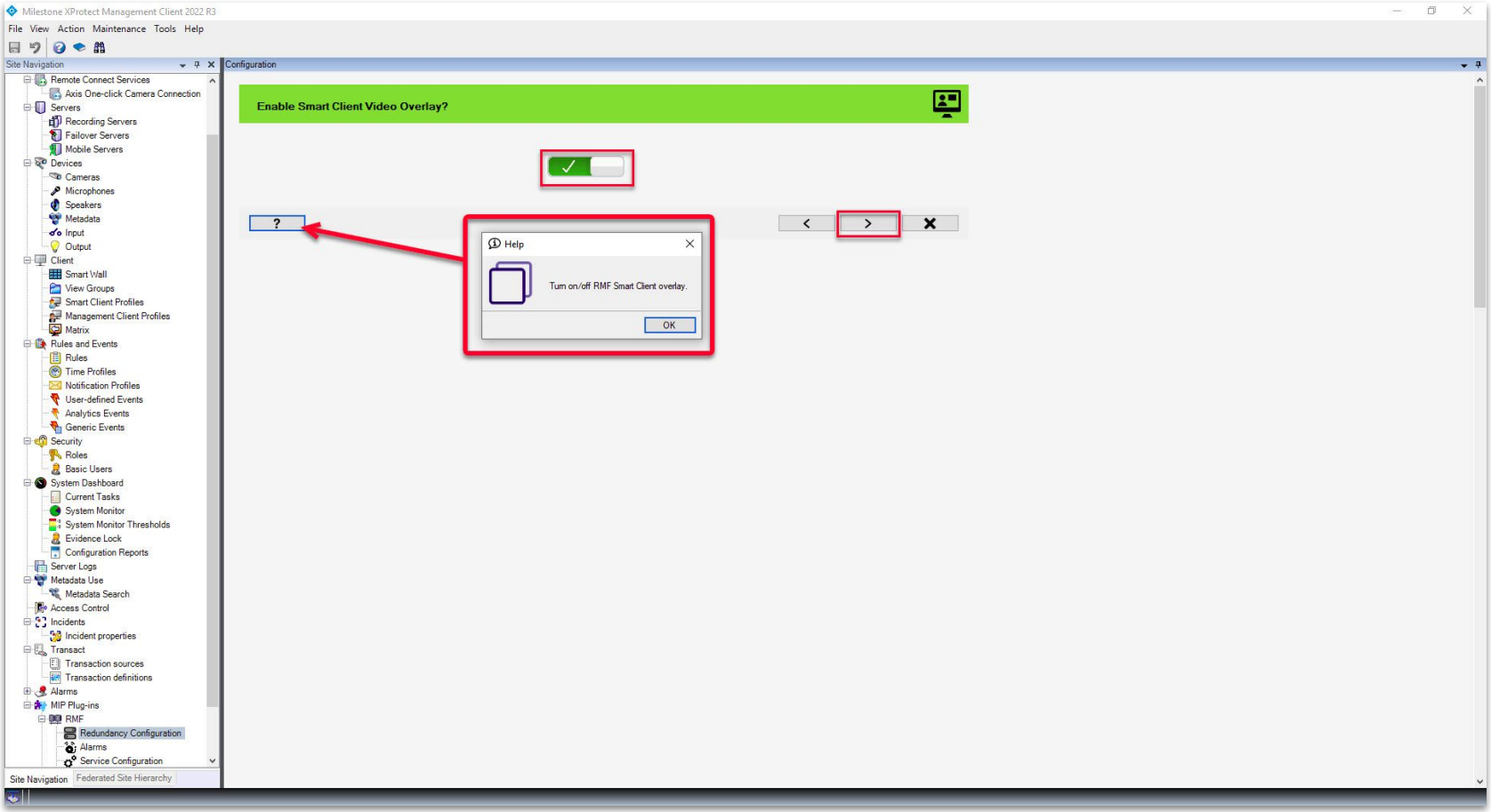
The Smart Client default switches back to a higher priority server once the priority server is back online.



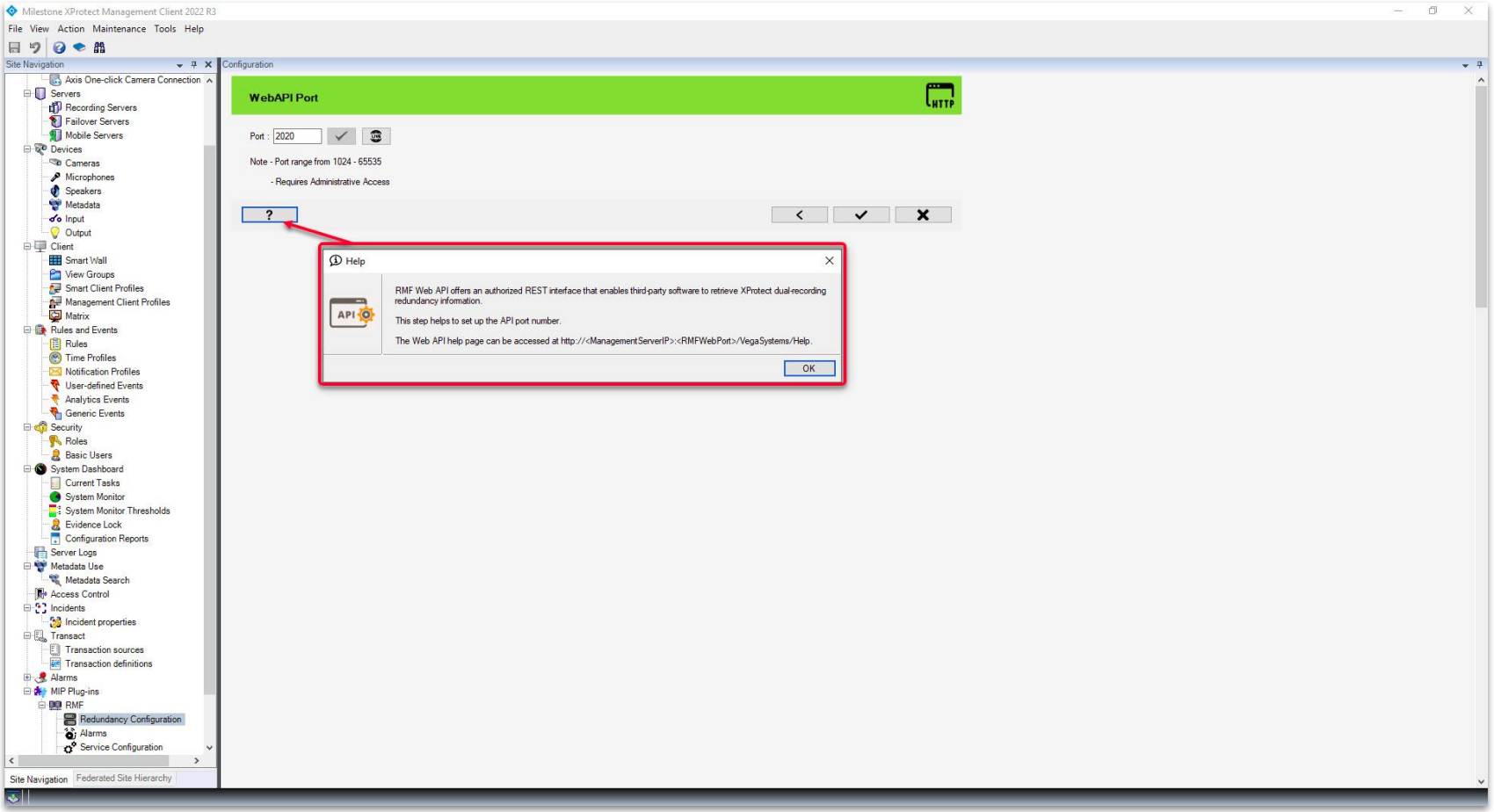
<u>Step 34</u>: Click **Next.**



<u>Step 35</u>: Configure the **Wait Time After Video Loss.**
Smart Client default switches to a redundant recording server after video loss of 1.0 seconds, in this case

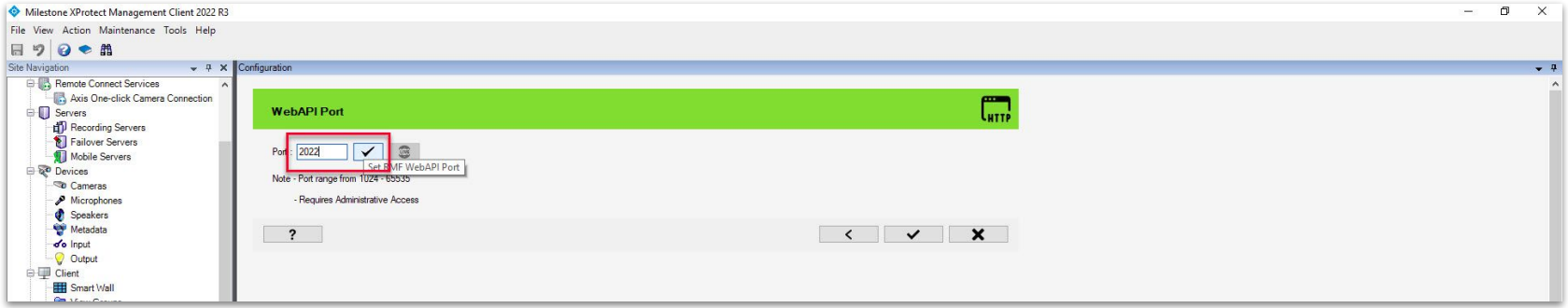


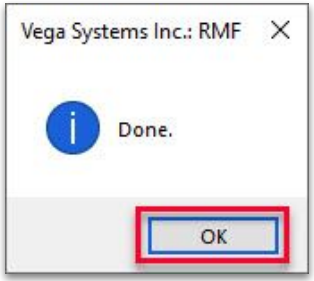
<u>Step 36</u>: Enable or disable **Smart Client Overlay**.
By default, the overlay is disabled.



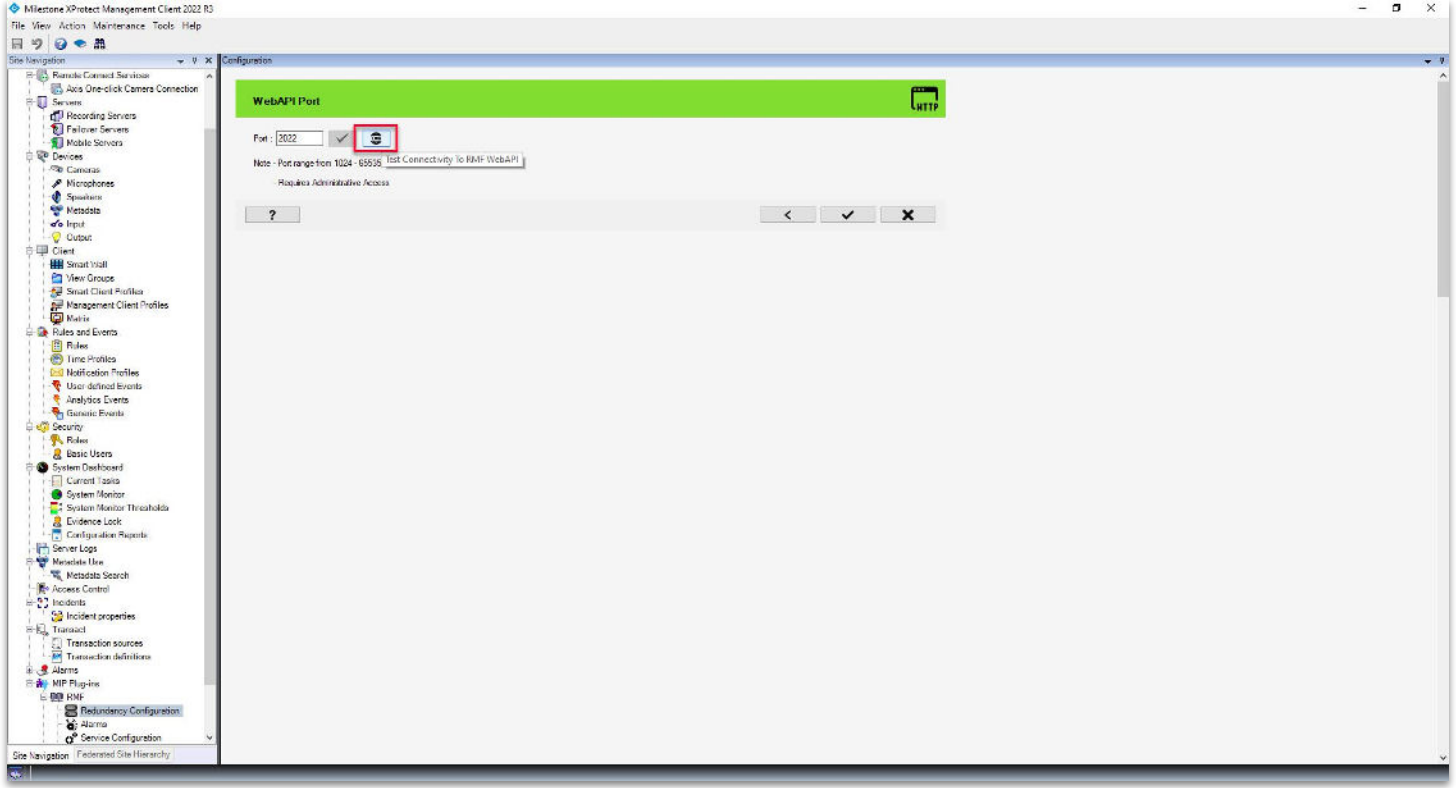
<u>Step 37</u>: Configure the **Web API Port Number**.

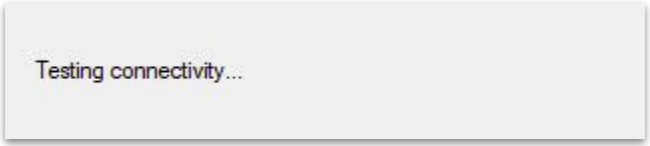
By default, the Web API port number is configured to 2020.





Step 38: Modify the Web API port number, if required. Click on **Set RMF Web API Port**. A done message is popped if the port number was set successfully.





<u>Step 39</u>: Click **Test Connectivity to RMF WebAPI** to test the connectivity to the configured port number.

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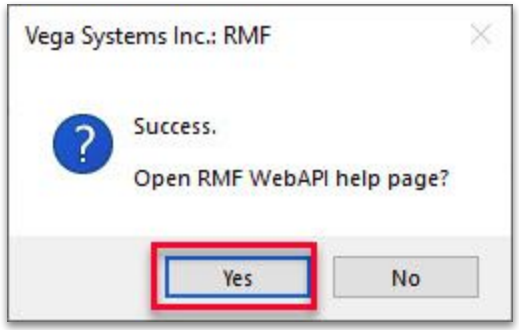
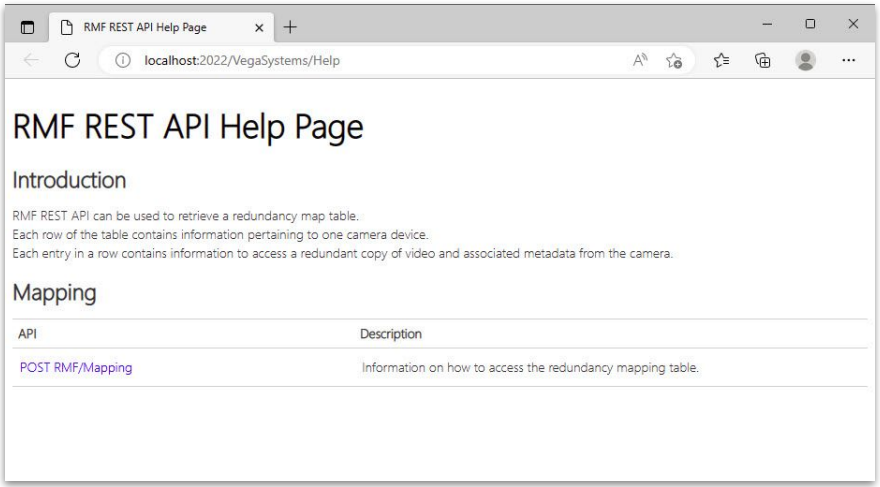
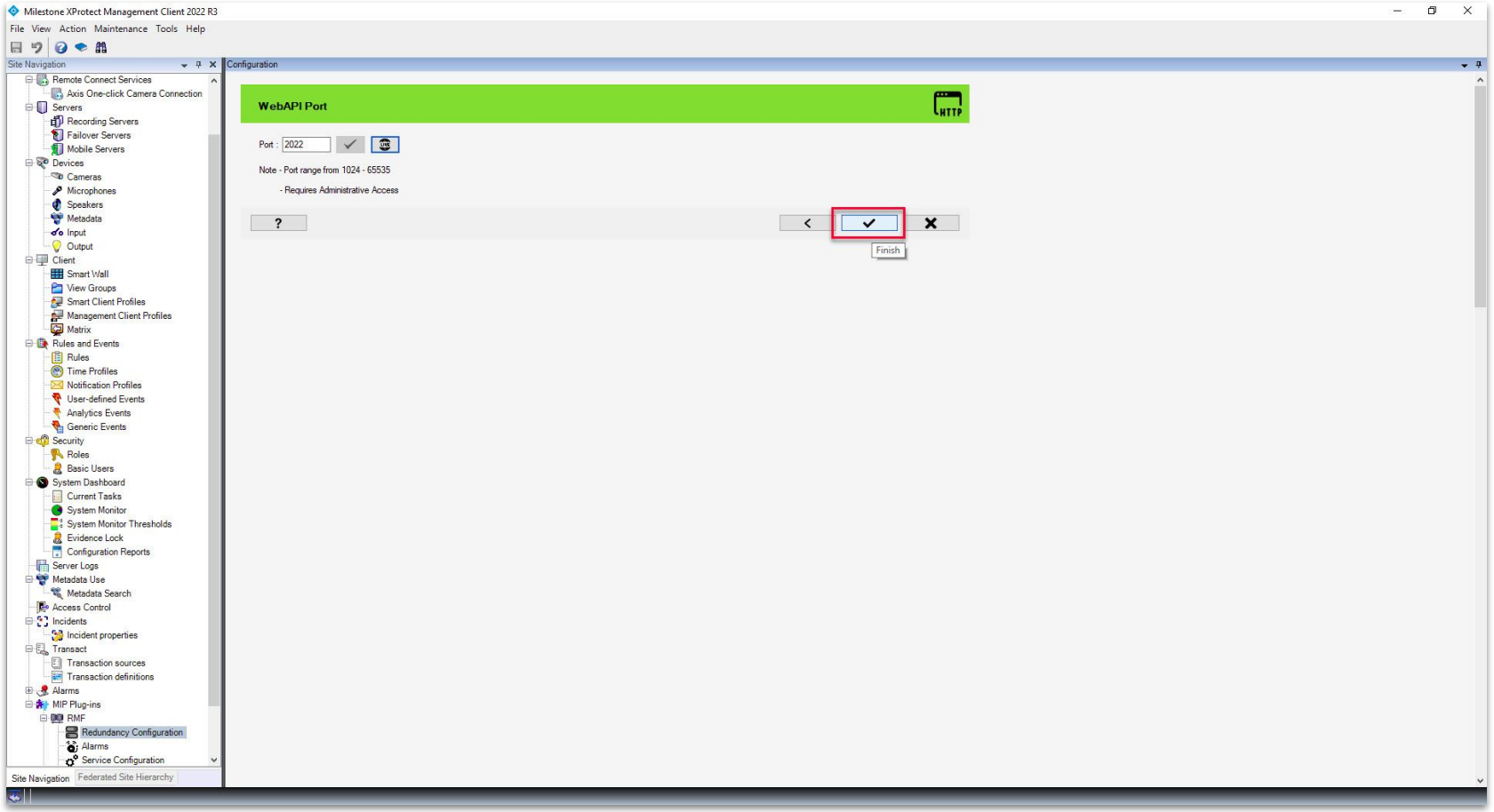
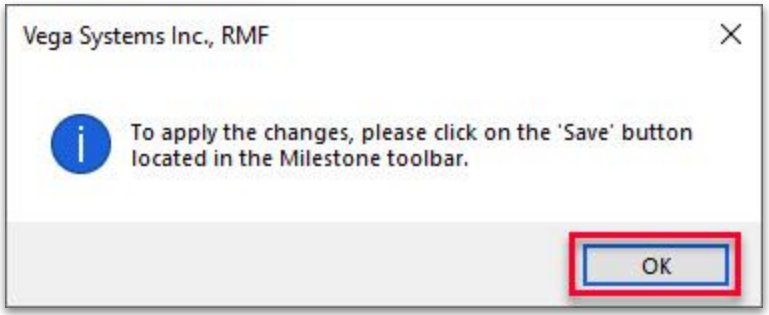


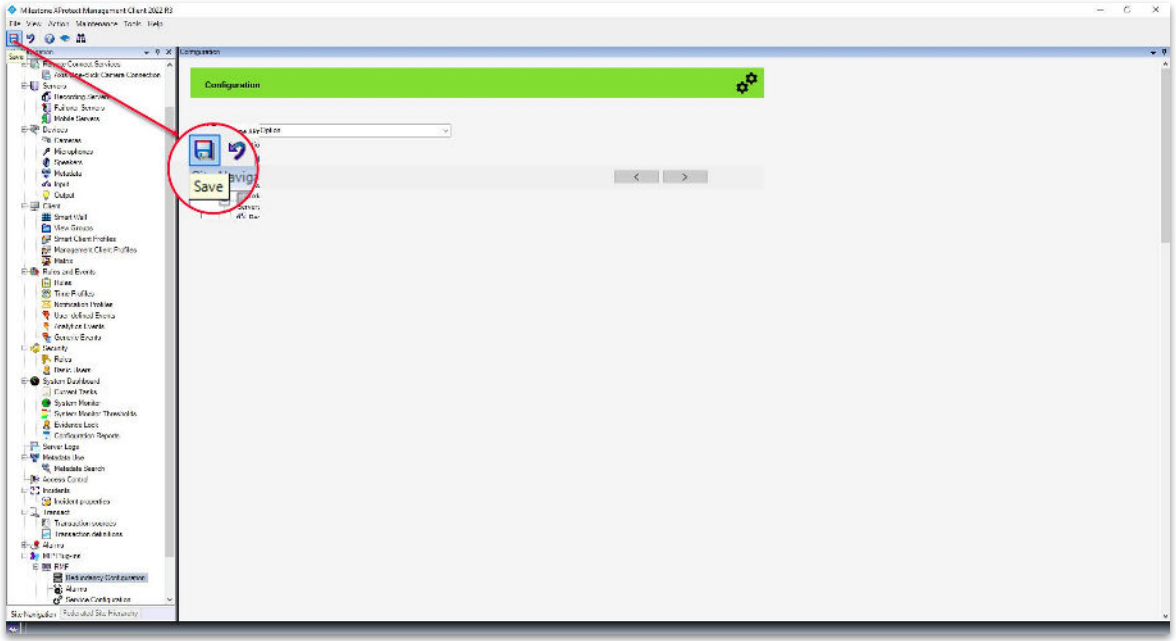


Step 40: Click **Yes** to open the Web API in the browser to verify.



<u>Step 41:</u> Click **Finish** to complete the configuration.





<u>Step 42:</u> Click **Save** to save the configuration.

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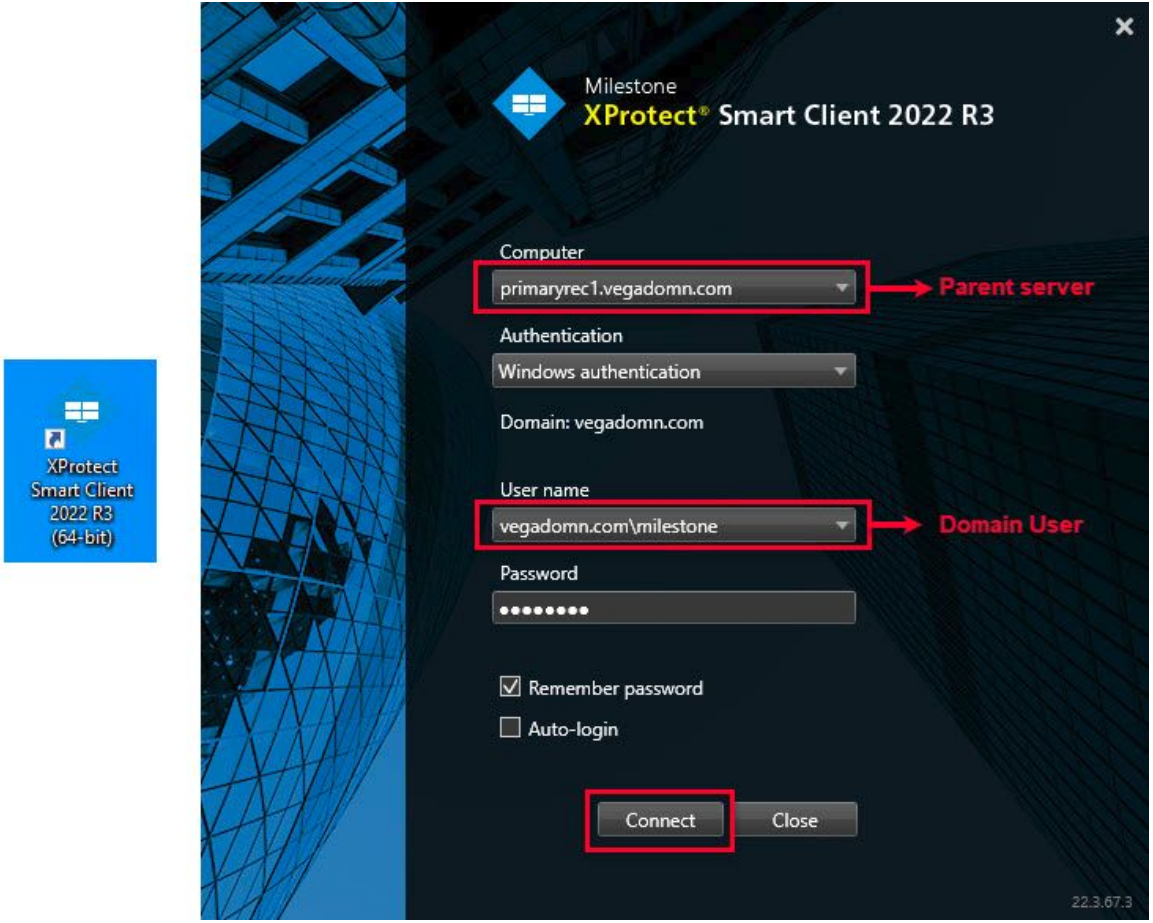
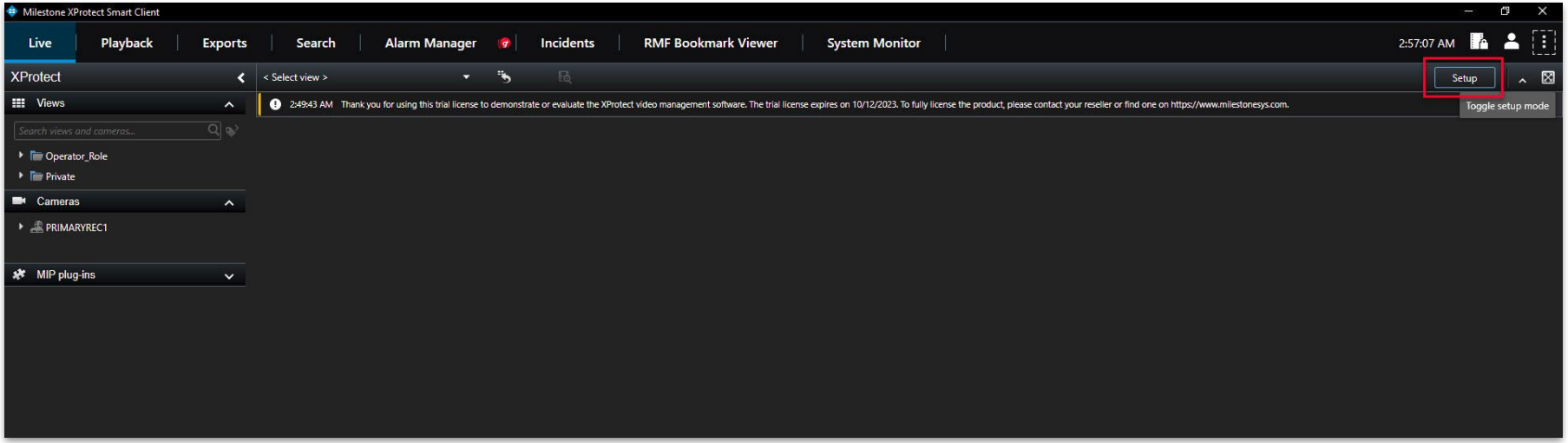
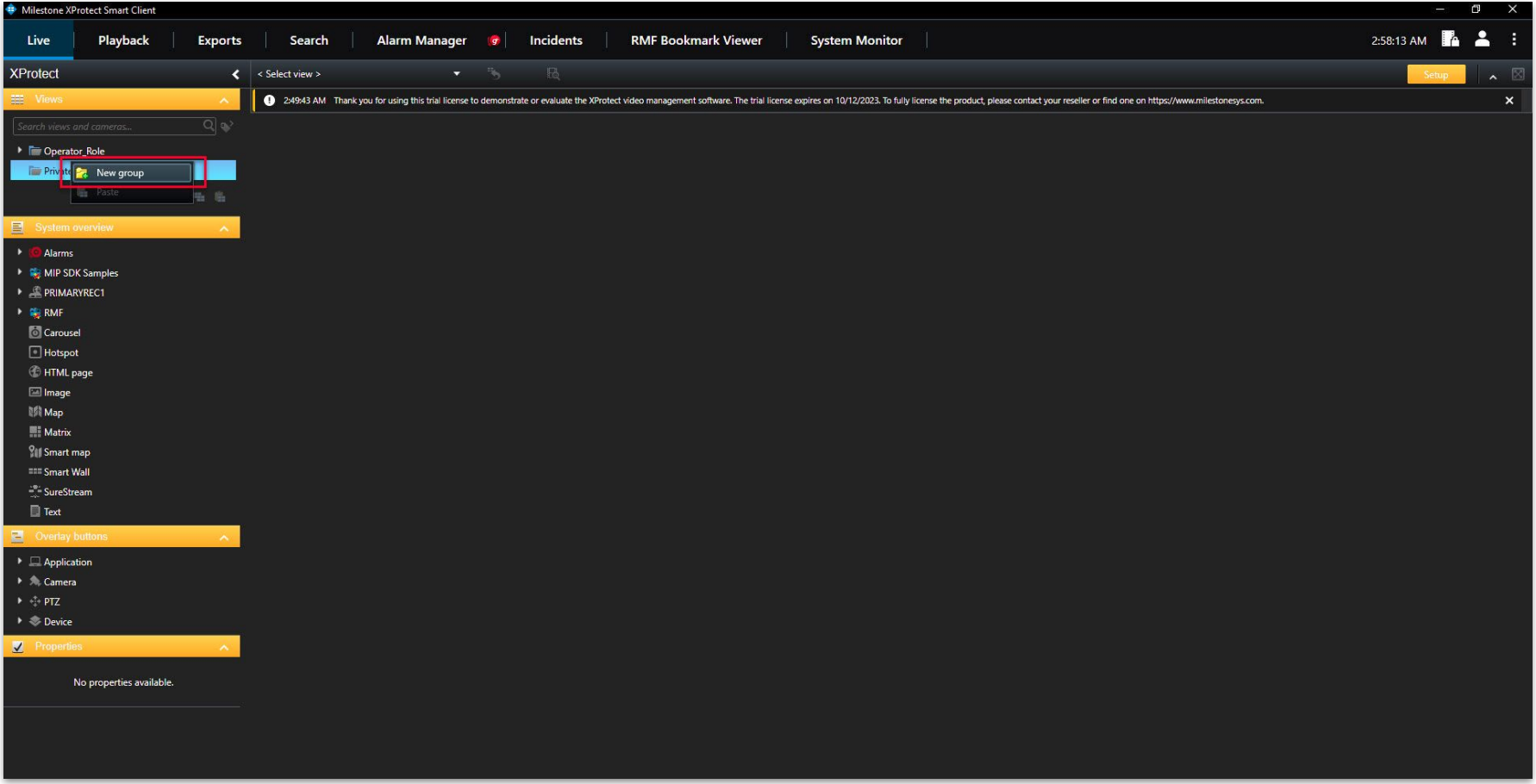
Part 4: Verification – Smart Client



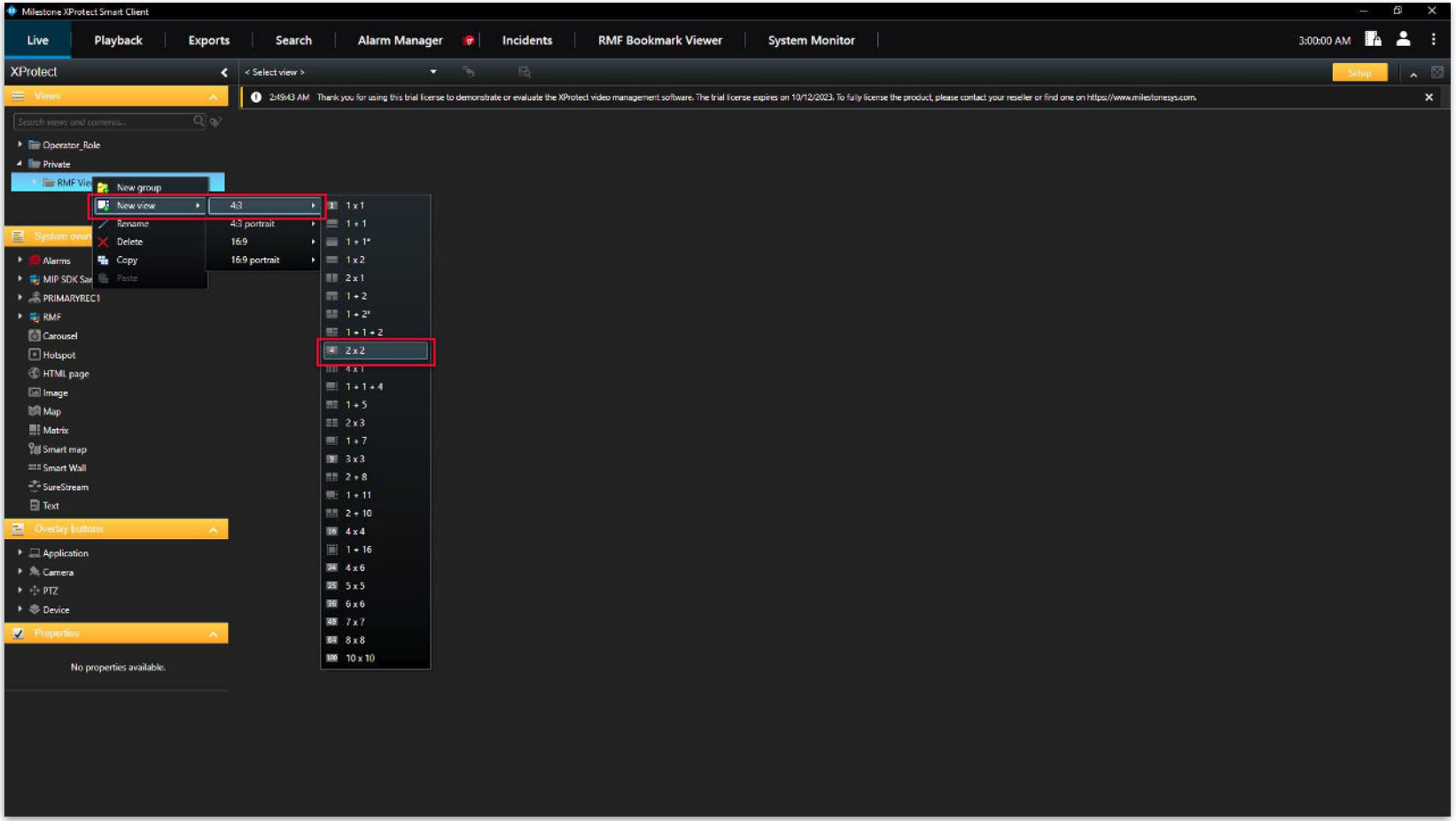
Step 1: Open the **Smart Client**. **Login** as a domain user with admin privileges.



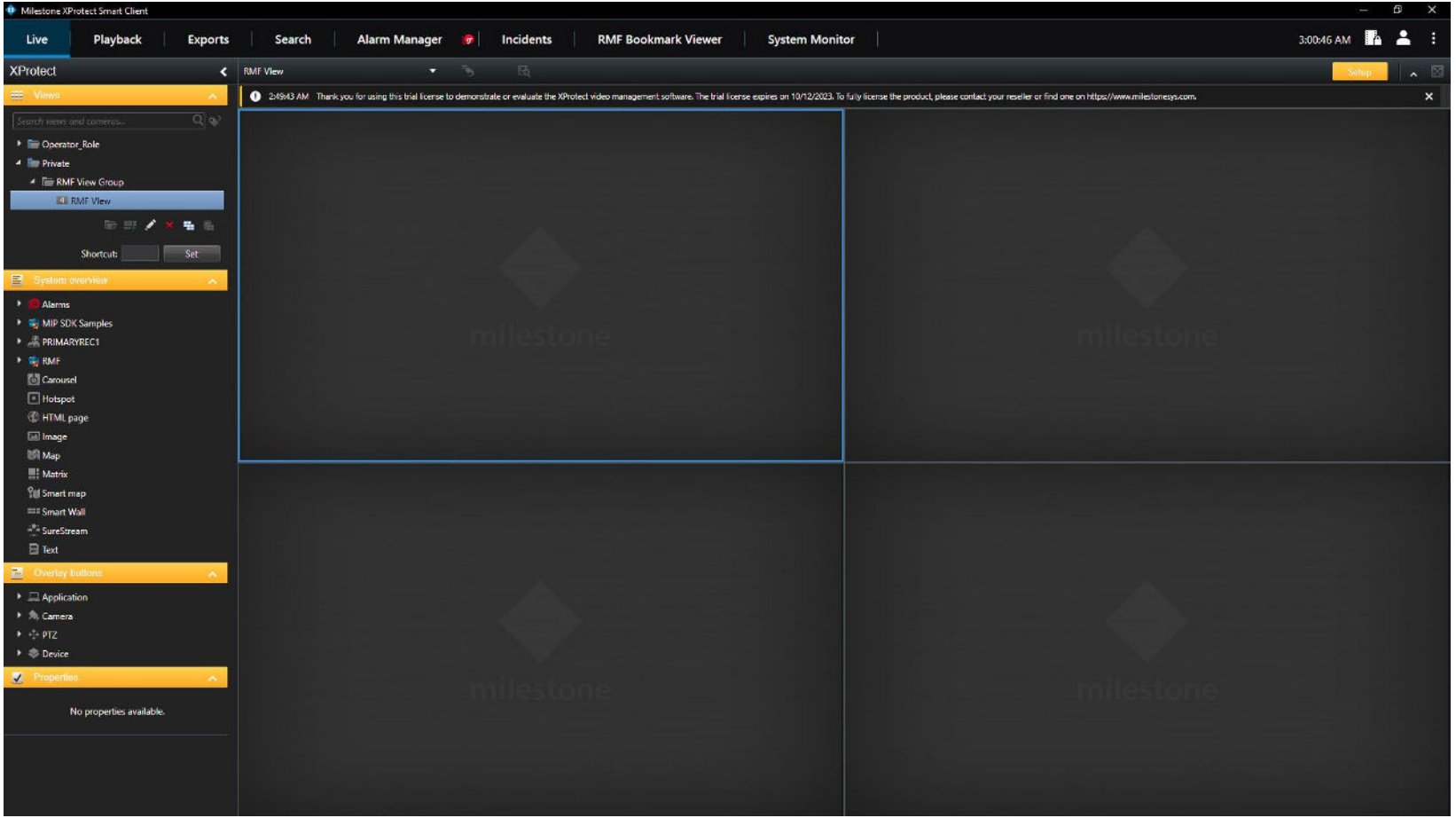
<u>Step 2</u>: Switch to **Setup** mode.



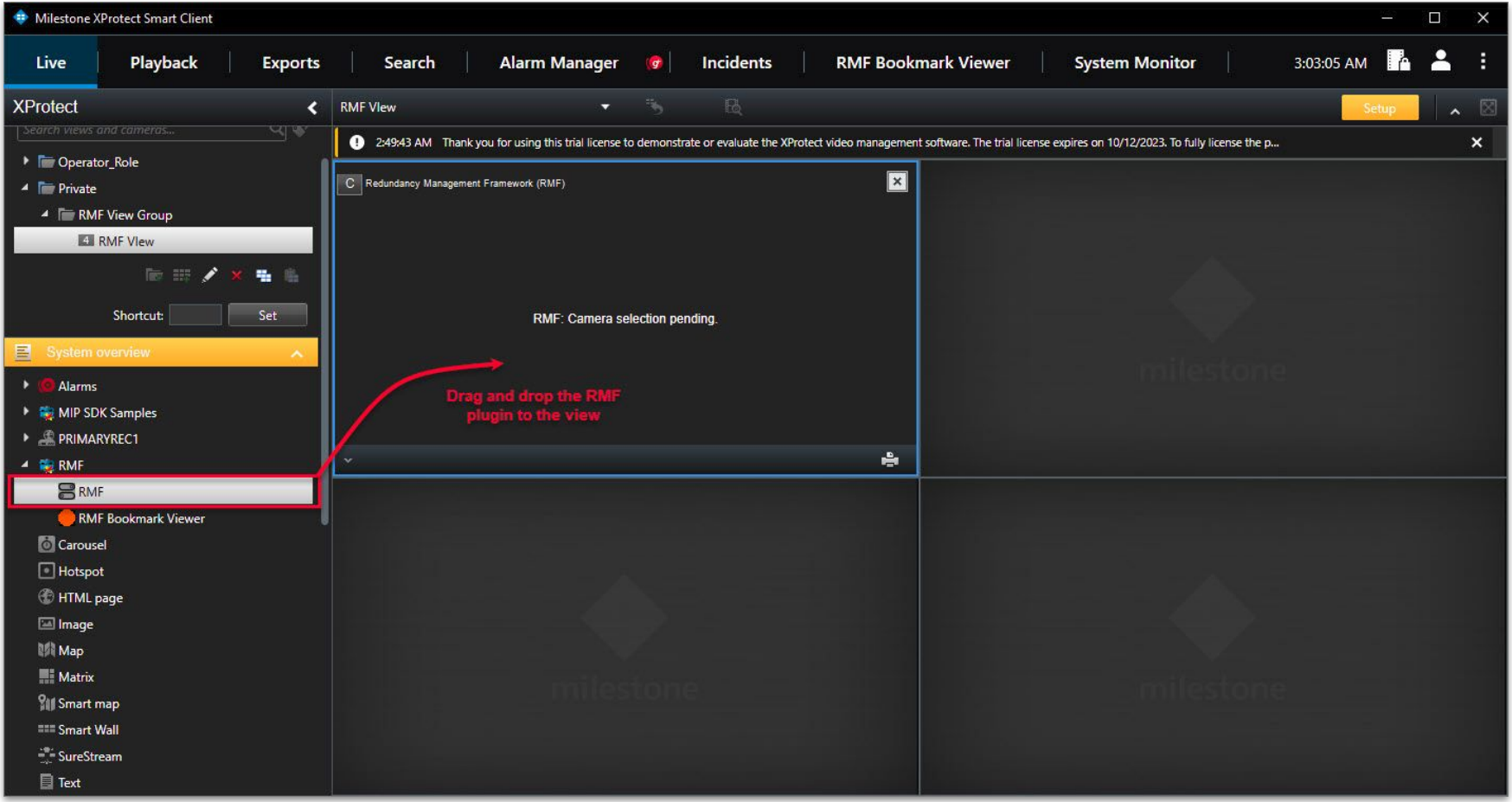
Step 3: Right-click Private under **Views**. Select **New Group** and provide a name for the group.



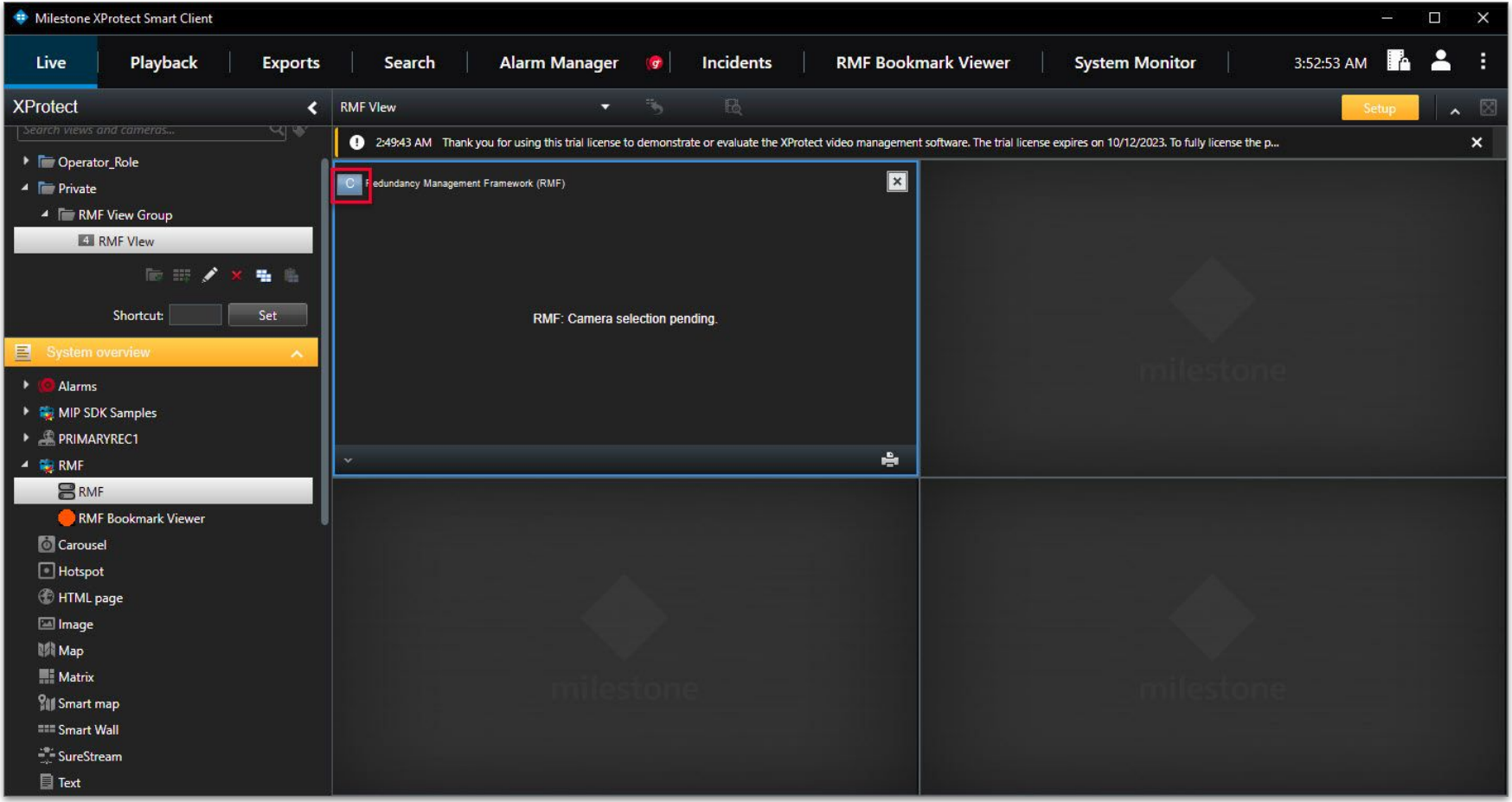
<u>Step 4</u>: Right-click the group created, select **New View** option and select the view.



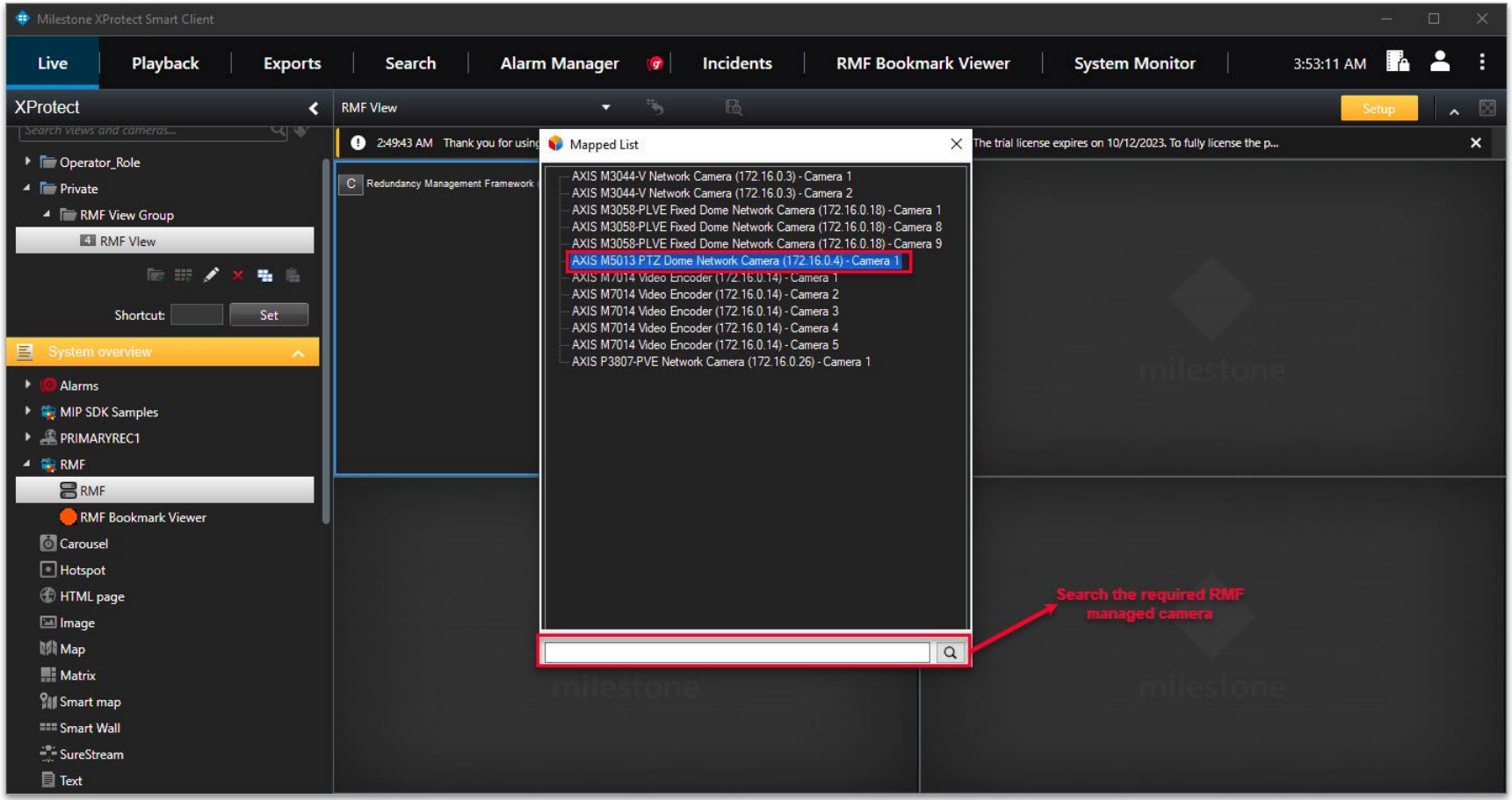
<u>Step 5</u>: The chosen **4X4 view** is created, as shown above.



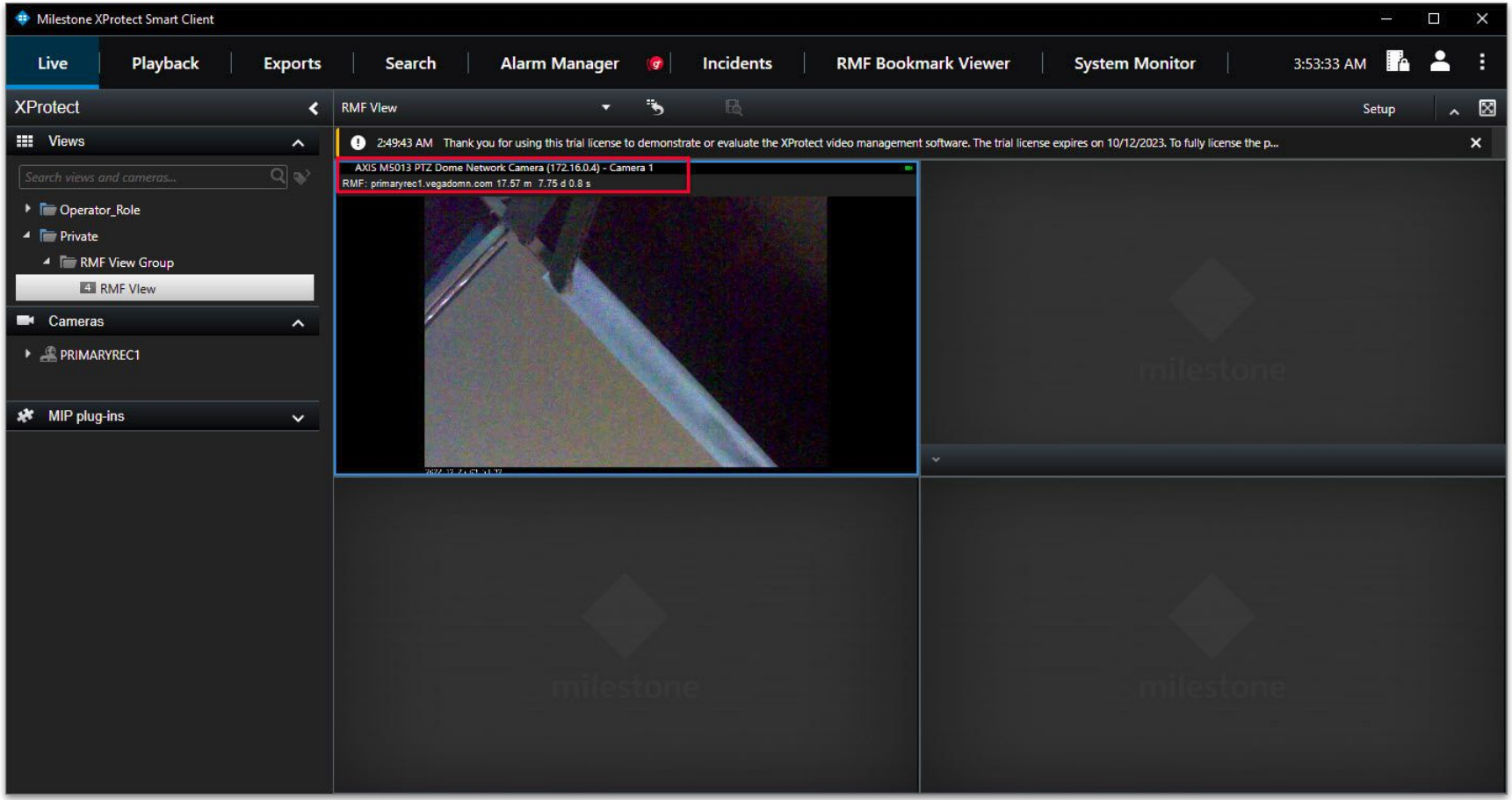
Step 6: Goto System Overview → RMF. **Drag and drop the RMF plugin to the view**.



Step 7: Click the **"C"** button to open the list of RMF managed cameras.



<u>Step 8</u>: Select (Double-click) a **camera** for the view.



Step 9: Exit the Setup mode.
View the **Live stream for the selected camera** from the parent recording server.