

Suprema Integration with NX Witness

ADMINISTRATOR GUIDE

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Introduction

Target Audience

This document describes how to install and configure Suprema Integration with NX Witness. It is intended for system setup specialists as well as system administrators. The system administrators require advanced knowledge of the video management system (VMS) and Suprema BioStar 2. Operators require basic knowledge of both systems.

Features

Suprema Integration with NX Witness is a middleware that connects BioStar 2 to the VMS. Devices in BioStar 2 can be connected to cameras in the VMS and if events occur on that device, they will be transferred in real-time to the VMS, where they will be connected to recorded videos.

It allows operators to monitor sites with a single user interface and associate access control events with videos. By using bookmarks, you can easily find or retrieve moments in that events occurred.

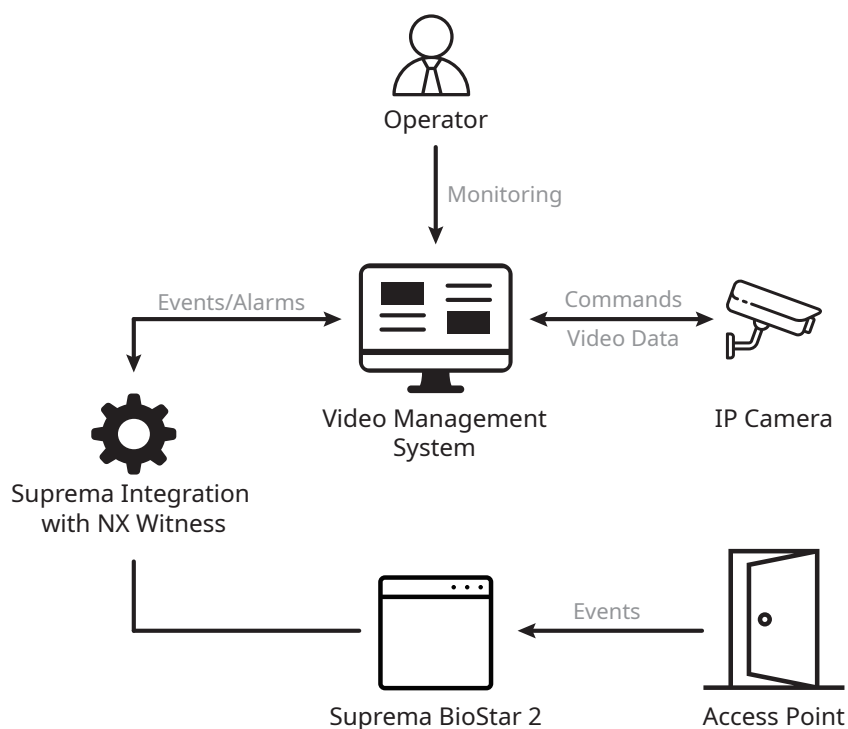
Suprema Integration with NX Witness provides the following features.

- Bookmarks on video stream recordings for easy retrieval and playback.
- Event log synchronization in between the VMS and BioStar 2 in real-time.



For more details on the functionality of the VMS, refer to its user manual.

System diagram



Installation

Prerequisites

BioStar 2

- BioStar 2 version 2.7.10 or later

Video Management System (VMS)

- NX Witness version 4.2 or later
- Hanwha Wave version 4.2 or later
- Digital Watchdog Spectrum version 4.2 or later

Operating System

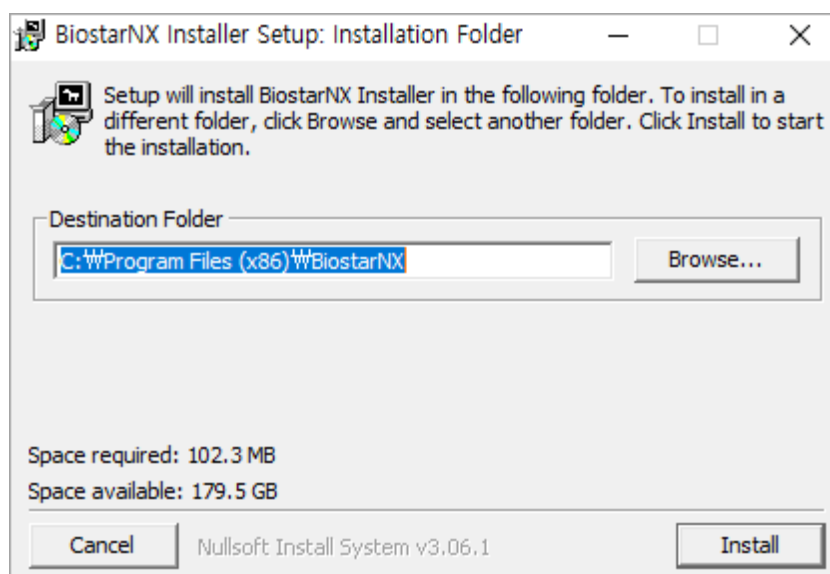
- Windows 10 Professional and later (x64)
- Windows Server 2016 and later (x64)

Installing Suprema Integration with NX Witness



- Suprema Integration with NX Witness can be installed on any computer in the network. However, it is recommended to install Suprema Integration with NX Witness on either the BioStar 2 or the VMS server computer.
- This section describes how to install Suprema Integration with NX Witness. For more details on the installation of both BioStar 2 and the VMS, refer to its manuals.

- 1 Run the downloaded setup program.
(ex. 'BiostarNX Installer.exe')
- 2 Set a path and click **Install**.



Getting started

Login


- 1 Enter `https://localhost:5051` in a web browser on the computer where Suprema Integration with NX Witness is installed.



Do not use the IP address or access Suprema Integration with NX Witness from another computer.

- 2 Enter the username and password that you are using in BioStar 2, and then click **Login**.

The image shows the BioStar 2 login interface. At the top left is the BioStar 2 logo, a multi-colored star. To its right is the text "BioStar 2". Below the logo are two input fields: "Username" with the placeholder text "BioStar 2 Username" and "Password" with the placeholder text "BioStar 2 Password". To the left of the "Login" button is a small blue gear icon. The "Login" button is a teal-colored rectangle with the text "Login" in white.

If the BioStar 2 server is not installed on the local computer or if the default port (443) has been changed, click  to access the connection configuration options and input the correct settings.

The image shows the BioStar 2 login interface with additional configuration options. It features the same logo and "BioStar 2" text as the previous form. Below the "Password" field is a blue gear icon. To the right of the gear icon is a teal "Login" button. Below the "Login" button are two more input fields: "Host" with the placeholder text "127.0.0.1" and "HTTPS Port" with the placeholder text "4443".

Settings

Settings overview

You can configure settings for connection to BioStar 2 and the VMS server.



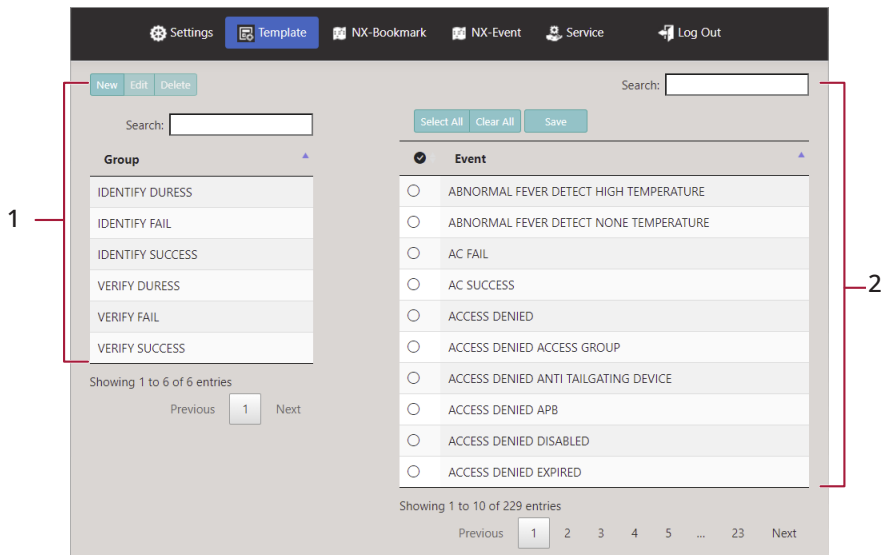
If either server is located on a different computer where the integration service is running, make sure that any firewalls or security software is set to allow communication on the ports specified.

No.	Item	Description
1	BioStar 2	<ul style="list-style-type: none"> Host: It indicates the IP address of BioStar 2. HTTPS Port: It indicates the port number that you are using in BioStar 2. <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;"> <ul style="list-style-type: none"> It is not possible to modify the BioStar 2 server address and port here. To configure another system, log out and reconnect using the desired connection parameters </div> <ul style="list-style-type: none"> Username: Enter the operator ID of BioStar 2. Password: Enter the password of BioStar 2.
2	NX Witness	<ul style="list-style-type: none"> Host: Enter the IP address of the server where the VMS is installed. HTTPS Port: Enter the port number of the VMS. Username: Enter the operator ID of the VMS. Password: Enter the password of the VMS. Bookmark Duration (ms): Enter the duration for Bookmarks created in the VMS (20000 ms = 20 seconds). Bookmark PreEvent (ms): Enter the duration to shift Bookmark starting times relative to the actual event time in BioStar 2 to include a video before the actual event occurs. For example, if the event occurs at 11:40:45, the bookmark will start at 11:40:35 when the Bookmark PreEvent setting is 10000 ms (10000 ms = 10 seconds). Save Settings: Save the settings.

Template



Template overview

You can create a template group with the desired event types or edit existing groups.



No.	Item	Description
1	Group	<ul style="list-style-type: none">• New: Create a new template group.• Edit: Rename the group name.• Delete: Delete the group.• Search: Search for groups.
2	Event	<ul style="list-style-type: none">• Search: Search for event types.• Select All: Select all event types shown on the page.• Clear All: Deselect all event types shown on the page.• Save: Save the template group.



You can sort the list in ascending or descending by clicking  or .

Creating a new template group

- 1 Click **New**.
- 2 Enter a name for the template group and click **Save**.
- 3 Select the template group created under **Group**.
- 4 Select the desired event types under **Event**.
- 5 Click **Save** to save the template group.

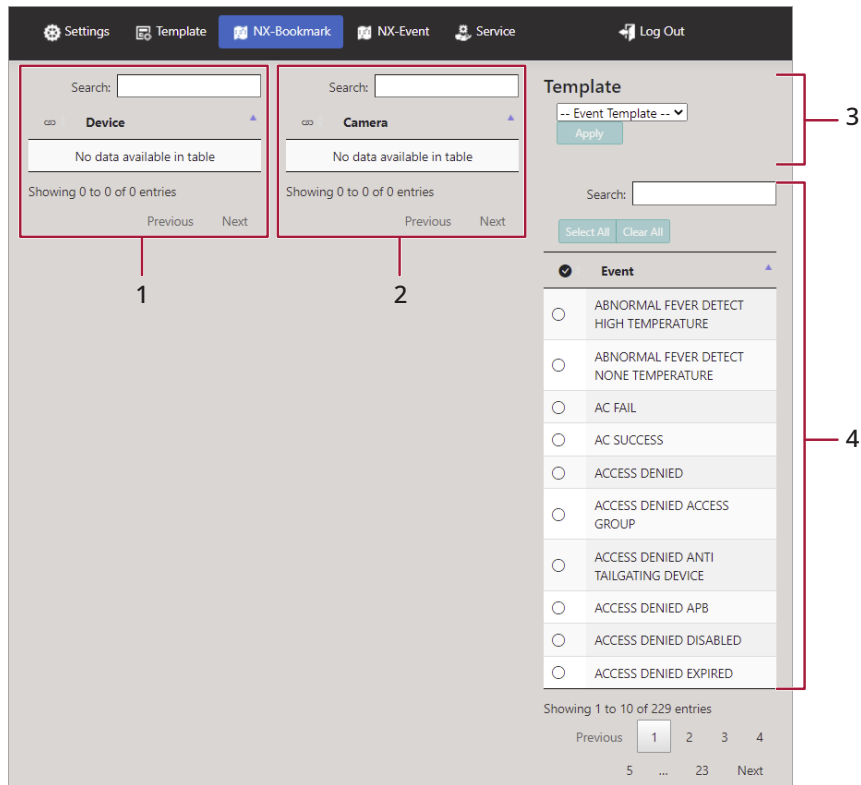
Editing a group template

- 1 Select a template group to edit under **Group**.
- 2 Select or deselect event types under **Event**.
- 3 Click **Save** to save the changes.

NX-Bookmark

NX-Bookmark overview

Bookmarks are video clips in the archive that are marked to make it easy to find and review. You can create bookmarks with event types or a preset template.



No.	Item	Description
1	Device	<ul style="list-style-type: none"> • Search: Search for devices.
2	Camera	<ul style="list-style-type: none"> • Search: Search for cameras.
3	Template	<ul style="list-style-type: none"> • Template: Select a preset template group. • Apply: Save the bookmark settings.
4	Event	<ul style="list-style-type: none"> • Search: Search for event types. • Select All: Select all event types shown on the page. • Clear All: Deselect all event types shown on the page.



You can sort the list in ascending or descending by clicking ▲ or ▼.

Configuring bookmark settings

- 1 Select a device under **Device**.
- 2 Select cameras to connect under **Camera**.




It is recommended to connect up to 15 cameras to one device.

- 3 Select event types under **Event** or you can select a preset template from the dropdown menu under **Template**.



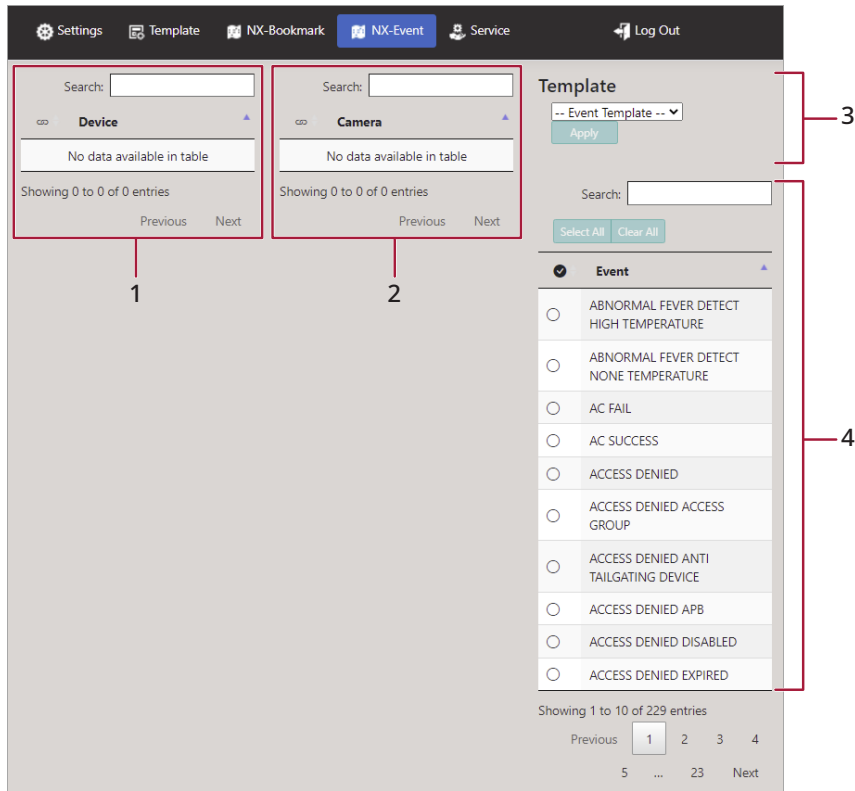
It is recommended to select up to 50 event types per camera.

- 4 Click **Apply** to save the bookmark. Once the device and the cameras are successfully connected,  appears next to their names.

NX-Event

NX-Event overview

Event logs are used to store issues occurred and navigate through past activity.



No.	Item	Description
1	Device	<ul style="list-style-type: none"> • Search: Search for devices.
2	Camera	<ul style="list-style-type: none"> • Search: Search for cameras.
3	Template	<ul style="list-style-type: none"> • Event Template: Select a preset template group. • Apply: Save the event settings.
4	Event	<ul style="list-style-type: none"> • Search: Search for event types. • Select All: Select all event types shown on the page. • Clear All: Deselect all event types shown on the page.



You can sort the list in ascending or descending by clicking ▲ or ▼.

Configuring event settings

- 1 Select a device under **Device**.
- 2 Select cameras to connect under **Camera**.




It is recommended to connect up to 15 cameras to one device.

- 3 Select event types under **Event** or you can select a preset template from the dropdown menu under **Template**.



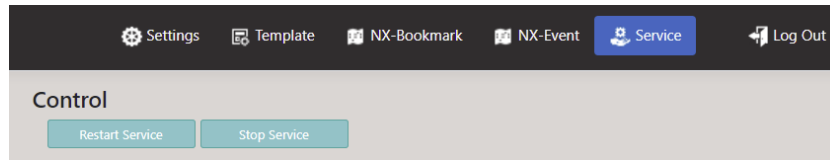
It is recommended to select up to 50 event types per camera.

- 4 Click **Apply** to save the event. Once the device and the cameras are successfully connected,  appears next to their names.

Service

Service overview

You can restart or stop xxx (integration).



- **Restart Service:** Start or restart Suprema Integration with NX Witness.
- **Stop Service:** Stop Suprema Integration with NX Witness. The integration will be disabled until the service is started again manually or by rebooting the computer.

Troubleshooting

This troubleshooting provides information to solve unexpected issues that you may encounter when using Suprema Integration with NX Witness.

Problem	Solution
The configuration webpage can not be accessed.	<ul style="list-style-type: none">• Check that the service has been successfully installed and is running.• Open service control panel (run: services.msc) and restart 'BiostarNXUI', or reboot the computer.
Devices or cameras are not displayed in the Bookmark/Event configuration screen.	<ul style="list-style-type: none">• If devices are not displaying, check the connection settings for BioStar 2.• If cameras are not displaying, check the connection settings for the VMS.
No bookmarks or events are created in the VMS when it occurs in BioStar 2.	<ul style="list-style-type: none">• Check that the Integration service is running. Try to restart the service or reboot the computer where the integration service is installed.• Check the Bookmark/Event configuration. Make sure the correct event from the correct device is connected to a camera. Try another event type.• Check the Bookmark/Event filter in the VMS. The events may be hidden by the filter.• If the event is being recorded but not displayed, check the bookmark logs and event logs.

Appendices

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