

O-Insights™ Reporting – 5.0 User Guide

Contents

Scheduling	
Emailing Reports	
Save Reports	
Export As	
Generating and Saving Report Configuration	
Storage Report	
Report Configuration	
Storage Column Configuration	
Scheduling	40
Emailing Reports	40
Save Reports	41
Export As	41
Generating and Saving Report Configuration	41
Camera Health Report	
Data Collector Job	
Report Configuration	
Camera Health Column Configuration	
Scheduling	45
Emailing Reports	46
Save Reports	46
Export As	
Generating and Saving Report Configuration	
Camera Recording Report	
Report Configuration	
Camera Recording Column Configuration	50
Scheduling	51
Emailing Reports	51
Save Reports	52
Export As	52
Generating and Saving Report Configuration	52
Recording Server Health Report	53
Report Configuration	53
Scheduling	54

55
56
56
56
56
57
57
58
59
60
60
60
60
61
61
61
62
63
63
64
64
65
65
65
66
67
67
68
68
69
69
69
70

Emailing Reports	71
Save Reports	71
Export As	71
Generating and Saving Report Configuration	72
LPR Report	73
Setting Up LPR with Dynamic Tags	73
Report Configuration	76
LPR Column Configuration	76
Scheduling	77
Emailing Reports	78
Save Reports	78
Export As	78
Generating and Saving Report Configuration	78
User Report	79
Report Configuration	79
User Column Configuration	79
Scheduling	80
Emailing Reports	81
Save Reports	81
Export As	81
Generating and Saving Report Configuration	82
Devices Report	83
Report Configuration	83
Events Column Configuration	83
Scheduling	84
Emailing Reports	85
Save Reports	85
Export As	85
Generating and Saving Report Configuration	85
Disabled Device Report	86
Report Configuration	86
Disabled Devices Column Configuration	86
Scheduling	87

88
88
88
88
89
89
90
91
91
92
92
92
93
93
94
95
95
96
96
96
97
97
98
105
105
106
106
106
107
107
108
110
110

Report Actions	111
All Reports	112
Filtering All Reports Table	112
Report Actions	112
Action Reports	114
Create Action Report	114
View Action Report	116
Filtering View Action Report Table	116
Action Report - Actions	117
Analytics	118
Camera Analytics	118
Report Configuration	118
Camera Analytics Column Configuration	119
Scheduling	120
Emailing Reports	121
Save Reports	121
Export As	122
Generating and Saving Report Configuration	122
User Login Analytics	123
Report Configuration	123
User Login Analytics Column Configuration	124
Scheduling	125
Emailing Reports	126
Save Reports	126
Export As	126
Generating and Saving Report Configuration	126
View Analytics	127
Filtering View Analytics Table	127
Analytics Actions	128
Widgets for O-Insights VMS Plugin	129
Reports Widget	129
Camera Analytics Widget	129
User Login Analytics Widget	129

User Login Analytics Chart Widget	130
Camera Uptime Chart Widget	130
Camera Disconnection Chart Widget	130
Report Data List	130
Ranking Chart Widget	130
Report Analytics Widget	131
User Jobs	132
Purge Reports	132
Configuring Purge	133
Scheduling	134
Saving Purge Job Configuration	135
Cache Update	136
Scheduling	137
Saving Cache Job Configuration	137
Camera Installed Date Picker Job	138
Configuring Camera Installed Date Picker Job	138
Scheduling	139
Saving Camera Installed Date Picker Job Configuration	140
Auto-Populating Warranty End Date	140
Data Collector Job	141
Data Collector Job Scheduling	141 141
Data Collector Job Scheduling Saving Data Collector Job	141 141 142
Data Collector Job Scheduling Saving Data Collector Job Import Tags Job	141 141 142 143
Data Collector Job Scheduling Saving Data Collector Job Import Tags Job Bulk tagging of cameras	141 141 142 143 143
Data Collector Job Scheduling Saving Data Collector Job Import Tags Job Bulk tagging of cameras Scheduling	141 141 142 143 143 146
Data Collector Job Scheduling Saving Data Collector Job Import Tags Job Bulk tagging of cameras Scheduling Saving Import Tags Job	141 141 142 143 143 146 147
Data Collector Job Scheduling Saving Data Collector Job Import Tags Job Bulk tagging of cameras Scheduling Saving Import Tags Job	141 141 142 143 143 146 147 148
Data Collector Job Scheduling Saving Data Collector Job Import Tags Job Bulk tagging of cameras Scheduling Saving Import Tags Job View User Job Filtering View User Job Table	141 141 142 143 143 146 147 148 148
Data Collector Job Scheduling Saving Data Collector Job Import Tags Job Bulk tagging of cameras Scheduling Saving Import Tags Job View User Job Filtering View User Job Table User Job Actions	141 141 142 143 143 143 146 147 148 148 149
Data Collector Job Scheduling Saving Data Collector Job Import Tags Job Bulk tagging of cameras Scheduling Saving Import Tags Job View User Job Filtering View User Job Table User Job Actions	141 141 142 143 143 143 146 147 148 148 149 150
Data Collector Job Scheduling Saving Data Collector Job Import Tags Job Bulk tagging of cameras Scheduling Saving Import Tags Job View User Job Filtering View User Job Table User Job Actions Audit Trail	141 141 142 143 143 143 146 147 148 148 149 150 152
Data Collector Job Scheduling Saving Data Collector Job Import Tags Job Bulk tagging of cameras Scheduling Saving Import Tags Job View User Job Filtering View User Job Table User Job Actions Audit Trail Right to Left Script Support Multisite Configuration	141 141 142 143 143 143 146 147 148 148 149 150 152 153

Tips for Optimal Configuration	156
Configuring Multisite Permissions for Different Roles	156
Steps to Configure Multisite Permissions	156
Config File	158
Understanding Config file	158
Keys and Functions	158
Federated Architecture Support	162
Interconnect Architecture Support	163
Multisite Support	165
Troubleshooting	166

About O-Insights Reporting Engine

O-Insights[™] Reporting Engine is a reporting engine designed to work natively with XProtect that facilitates automated report generation for Access Control Events, Alarms, Events, Audit Data, Bookmark, Evidence Lock, Camera Details and Health, Camera Status Count, Devices, Disabled Devices, Recording Server Details and Health, Storage, User, LPR and IoT Analytics. Reports can be created and accessed using O-Insights plugin in the XProtect smart client.

Installation

For installation instructions and prerequisites, please refer to the *Installation Guide*.

Note: If your API gateway URL differs from the VMS Server URL, you will need to manually update the `QueryEngine.exe.config` file or make the necessary changes via the Query Engine Configuration Tray Tool.

Report Configuration

Report Configuration helps to configure the settings for the entire reporting engine like Date/Time Formats, Email Configurations, Reporting permissions for Users and Roles, Multisite permission, and the Storage path of the shared drive where the reports generated need to be stored (Default Path is C:\Program Files\Reports on the machine on which Query Engine is installed). This can be accessed by expanding the settings menu as shown in the image below:



Report Configuration

Settings

Reporting

Reports Settings lets the users configure various reporting-related settings.

Reporting Engine Config

- Reporting Engine: The reporting engine that is to be used. Set it to default for the O-Insights Reporting Engine.
- Storage Path: Path where a report is saved. The Default path is C:\Program Files\Reports. Any shared folder path can be provided here.

Date Time Config

- *Time Format:* The time format in *HH:mm*, where HH denotes the hour and mm the minutes.
- Date Format: The date format in dd/MM/yyyy where dd denotes the date, MM the month, and yyyy the year.

Email Config

- Sender Email: Email of the sender's account, from which the Emails will be mailed.
- Sender Password: The sender's account password.
- SMTP Server: SMTP Server address.
- SMTP Port: SMTP Port number.
- Security Protocol: Security protocol.
- Disable Authentication: Disabling authentication removes the requirement for user credentials for sending email. This can be used in case the sender does not have a password.
- Enable Email: Enable/disable email of reports.

Email Settings needs to be correctly configured with the *Enable Email* **checked for automatic emailing for scheduled reports.**

\bigcirc	Settings ▶ Reporting			DE	SKTOP-ST2QKOF\
€					
۵	Reporting Engine Config				
=	Reporting Engine		Storage Path		
4	Date Time Config				
▦	Date Format		Time Format		
۹	Date Format	dd/MM/yyyy	nine Format		
8	Email Config				
•	SMTP Server		SMTP Port		
E					
	Security Protocol		Enable Email	2	
÷	Sender Email				
۰					
8	Disable Authentication				
	Sender Name		Sender Password		

Permissions for other Roles and Users can be managed from the below settings:



User Role

Click on + to add another Row from which the admin can select a different Role for which permissions can be selected from the checkbox

Example: A user with an operator role will only be able to View Reports created by a user with an Administrator role. He will not be able to edit the report configurations and will also not be able to cancel or delete the report.

The user can access all the reports whose *Access Types* are *Public* from the *View Report* section.



View Report

In case, the Write permissions are granted for the Operator role then the user will be able to create a report / edit a previously created report / cancel the previous run of the report. The user is not allowed to delete/import or export the report as permissions are not assigned. The user will not have access to the reporting configuration menu.

Similarly, if check boxes for Import/Export/Delete/Config are checked then the user with that particular role will be able to Import a report /Export a report and Delete a report. He will also have access to the reporting settings.

User permission settings can be modified to control the access to the type of report based on their Role access. This allows the administrator to restrict which user role has permission to view the type of report.



User permission

The O-Insights reporting engine can be used to connect to the independent sites which are neither federated nor interconnected with the Multisite connectivity feature. The Reporting permissions for multisite for each user role can be configured in multisite permission settings.

Multisite Permission			+
Role	Permissions		
ADMINISTRATORS (Current Role)	ALL .		
Security	* LABMLSTHM2 * LABMLSTHM1		
	LABMLSTHM2		
		Ð	Save

Permissions

Click on + to add a role and then select the site from the dropdown to give reporting permissions to the role. The user with a particular role will need access to generate reports only for a selected site.

Note: Access to the site will allow the users to run reports for all devices in the site based on the permissions configured while adding the site.

Action Report Settings

Action Report allows the administrator to change the camera properties such as Frame Rate, Resolution or Passwords from the camera detail report and it allows you to change the MaxSize or Retention Time from the Storage Report. Action report settings can be accessed from the settings menu.



Action Reports

Action Report settings contain the user roles based on which access and operations will be restricted and allowed in the Action Reports. To assign the permissions, check the desired permissions next to the user and click Save to save the preferences. The following permissions are available:

- Read: Access the action reports.
- Write: Create and modify action reports.
- Delete: Delete the action reports.
- Config: Configure the action reports.





Jobs Settings

Jobs settings contain the user roles based on which access and operations will be restricted and allowed in the User Jobs. To assign the permissions, check the desired permissions next to the Role and click Save to save the preferences. The following permissions are available:

- Read: Access the user jobs.
- Write: Create and modify user jobs.
- Delete: Delete the user jobs.
- Config: Configure the user jobs.

User Permission settings allow the administrator to restrict which role has the right to view/edit jobs.

\bigcirc	Settings ▶Jobs					DESKTOP-ST20	QKOF\
€							
۵	User Role						
	Role		Read	Write	Delete	Config	
F	ADMINISTRATORS (Current Role)						
▦	Operators			•	•	•	
۵							
•	User Permission						
E	Role	Permissions					
٠	ADMINISTRATORS (Current Role)	ALL					
٠							
8							B Save
<u> </u>							

Jobs Settings

Analytics Settings

Analytics settings contain the settings using which access and operations will be restricted and allowed in the Analytics reports. To assign the permissions, check the desired permissions next to the Role and click Save to save the preferences. The following permissions are available:

- Read: Access the user jobs.
- Write: Create and modify user jobs.
- Delete: Delete the user jobs.
- Config: Configure the user jobs.

User Permission settings allow the administrator to restrict which role has the right to view/edit the camera/user analytics report.

	Settings Analytics					DESKTOP-ST20	QKOF\	
8								
	User Role							
	Role		Read	Write	Delete	Config		
	ADMINISTRATORS (Current Role)							
14	Operators							
▦								
۹								
8	User Permission							
•	Role	Permissions						
E	ADMINISTRATORS (Current Role)	ALL						
۰	Operators	× ALL						
٠								
8								
^						[_]	🖬 Sa	ave

Analytics Settings

Creating/Scheduling Reports

The Create Reports option allows users to create, schedule, email, and/or generate PDF, Excel, or CSV copies of various reports based on their preferences. The reports are nested within folders on the left and on selection of the folders the reports that belong to those folders will show up on the right. The various reports can be selected by switching between the *Report Type* options. To close the *Create Report* popup without saving changes, click the *Cancel* button or click the Generate button to generate and save the report.



Create Report View

- To create a new folder, click the folder icon. Reports and subfolders can be organized within these folders by clicking the folder icon and clicking the report icon and/or the container/folder icon.
- To create a new report, click the first report icon **1**.
- To create a new folder, click the folder icon □.
- To rename a folder, click on the pen icon after choosing the desired folder.
- To delete a folder and all the reports within, click on the trash icon after choosing the desired folder, and in the prompt choose OK. This action cannot be undone. *Please note that the root folder cannot be deleted.*

Alarm Report

The Alarm Report provides tools for generating detailed reports based on alarms within the XProtect system.

Create Or Schedule Report						
Report Configuration						
Selected Folder	Reports					
Report Type			Report no.			
Report Name			Report Template			
Daterange Picker	🗎 Today 👻		Datetime in Days			
Access						
Alarm Column Configuration						
Select Parameters						
Scheduling						
Schedule						
Additional Settings						
Send Email	\bigcirc		Ignore Empty Data	Save Report		
Data Only	\bigcirc					
Export As						
Pdf	\bigcirc		Excel			
					× Cancel	🖬 Generate

Create/Schedule Alarm Report

Report Configuration

- The *Reporting No.* field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Report template helps to Select the desired report template from the dropdown, based on which the reports will be generated. Alarm Report has only one template named *DefaultAlarm*.
- Report templates can be customized to have Logos, custom report names, etc. In case, there has been a change in templates or new templates are added, click reload template by expanding the context menu (triangle next to username) to clear the cache and reload the new / modified templates.
- The Daterange Picker lets the user select the duration of time for which the alarm records need to be fetched, based on which the report will be generated. The users can select *Today* to select Today's records, Yesterday to select Yesterday's records, Last 24 hours to select the records for the last 24

hours, This Month to select the current month's records, and Last 30 days or Last 7 days to select the records for the past 30 days or the past 7 days, respectively. To choose any custom date range, select the *Custom Range* option. Select the start date/time in the first calendar by clicking only once on date and only once on time and then the end date by clicking only once on date and only once on time in the calendar box.

• If records are to be selected dynamically to the current date, toggle on Datetime in days and fill in the From and To ranges where days are relative to the present day.

From Days	From Time	To Days 0	To Time

• If you need to consider records from a specific range of days, for example, from the last 7 days until today, follow these instructions:

From days: Enter 7.

To days: Enter 0.

Make sure to specify the respective start and end times.

• The Access option lets the Admin user restrict users with roles other than admin from accessing the report or lets them access the report. For Restricting the report to the user, select *Private* or leave it as *Public* for access to all users. All private reports can be viewed and edited by any user with administrator role.

Alarm Column Configuration

• The Select Parameters button opens the Configure Alarm Column popup, where the users can select all the alarm parameters that are required by switching the toggle on. In the Display Name field next to the selected parameters, add the name to be displayed in the report for the selected parameter.

Serial No	Record No.
Acknowledgment Date Time	Date and time of alarm acknowledgment.
Activity Name	Column contains details of the state / priority of alarm and the Initial Alarm Owner

Below are the Columns available for selection:

ActivityOwner	Details of who acknowledged the alarm or changed the state of alarm.		
Activity Time	Shows data and time details of each of the changed state/priority.		
Alarm	Shows name of the Alarm.		
Alarm Definition	Shows Alarm Definition.		
Alarm Duration	Shows duration of Alarm.		
Alarm Type	Shows Alarm Type.		
Comment	Shows Comment.		
Description	Shows Description.		
Owner	Shows Owner of the alarm.		
Close Datetime	Shows details of when the alarm was closed.		
Date	Shows the Alarm Date.		
Local Id - Alarm ID	Shows Alarm ID.		
Message	Shows Alarm Message.		
Open Duration	Shows Open duration of Alarm.		
Priority	Shows Alarm Priority.		
Remarks	Shows details entered during closing / changing state of an alarm.		
Site	Shows site details.		
Source	Shows details of Alarm Source.		
Source IP	Shows Camera IP Address.		
Source Type	Shows Type of source based on Tags added in O-Insights custom properties Tab.		
Source Location	Shows Location of source based on Tags added in O-Insights custom properties Tab.		
Source RecordingServer	Shows name of Recording Server.		
State	Shows State of the Alarm.		
Snapshot	Shows a Snapshot of the Alarm.		
Time	Shows Alarm Time.		
Timestamp	Shows Date and Time of Alarm in a single Column.		
Time Taken for First Action	Shows Time duration to attend the alarm.		

- Once the parameters are selected, the sort dropdowns will show up. From the dropdown, select the column to sort the table from the *Sort By* dropdown and select whether to sort in ascending or descending order from the *Sort Order* dropdown.
- The *Filter* option lets the user filter the records by the given parameters. Enter the desired parameters and click *Apply Filter* and the filter will be applied. Toggle *Case Insensitive* to ignore case sensitivity. Click *Cancel* to close the *Filter Results* without saving the filters.
- Below columns support Comma-separated values (CSV). This will help the user to filter out report data based on the below mentioned CSV values:
 - Message
 - Remarks
 - Sources
 - Source Type
 - Source Location
 - Source Recording Server

Scheduling

- To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - Minutes: Generate reports for every selected minute(s).

Schedule Report	
Select period:	
Minutes 🗸	
Every 1 v minutes(s)	
×c	Cancel 🖬 Save

• *Hourly:* Choose to generate the report for every selected hour(s).



 Daily: Generate a report for either every selected number of days or every weekday at the selected time.



 Weekly: Check the days of the week and the time when the report is to be generated from the Start Time dropdown.



 Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.



 Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Tip: Any data which is to be reported out will require it to be available in the XProtect.



Emailing Reports

- To enable mailing of reports, toggle the Send Email toggle on.
 - To send to custom recipients, select *Email* from in the *Email* field, enter the desired email address click the + button, and repeat until all email addresses are added. Click the trash icon to remove an added email address.
 - Toggle *Ignore Empty Data* if the report is not to be mailed in case there is no data in the report.
 - Click Save to save the configuration or Cancel to discard without saving changes.

Create Or Schedule Report		Email Recipients				×			×
Report Configuration									
Selected Folder		Email	operator@compa						
Report Type		Eur - il		0.					
Report Name		email operator@company	/.com		peration				
Daterange Picker							D		
Access									
Alarm Column Configuration									
Sites +									
Select Parameters									
Scheduling									
Schedule									
Additional Settings									
Send Email	C Email			Ignore Empty [
Data Only	•								
Export As									
Pdf	•								
CSV									

Save Reports

• To save a report to a preconfigured location, toggle Save Report on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

• The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *Pdf* toggle on, to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

Additional Settings				
Send Email		Ignore Empty Data	Save Report	
Data Only				
Export As				
Pdf		Excel		
csv				

Generating and Saving Report Configuration

- To save the configuration and/or generate the report, click the *Generate button*.
- To exit without saving changes, click the Cancel button.

Note:

The Filter option lets users to selectively narrow down records based on specified parameters.

Here are the regular expressions (regex) for this functionality:

- Regex for an empty string: **^\$**'
- Regex for a non-empty string: '.+'

Audit Report

The Audit Report facilitates the creation of detailed reports derived from XProtect Audit logs.

Create Or Schedule Report						
Report Configuration						
Selected Folder	Reports					
Report Type			Report no.			
Report Name			Report Template			
Daterange Picker	🗎 Today 👻		Datetime in Days	\bigcirc		
Access						
Audit Logs Column Configuration						
Select Parameters						
Scheduling						
Schedule						
Additional Settings						
Send Email			Ignore Empty Data	\bigcirc	Save Report	
Data Only	\bigcirc					
Export As						
Pdf			Excel	\bigcirc		
CSV						

Create/Schedule Audit Report

Report Configuration

- The *Reporting No* field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Select the desired report template from the *Report Template* dropdown, based on which the reports will be generated. Audit Report has only one template named *DefaultAudit*.
- The Daterange Picker lets the user select the duration of time for which the audit logs need to be fetched, based on which the report will be generated. The users can select Today to select Today's records, Yesterday to select Yesterday's records, Last 24 hours to select the records from the last 24 hours, This Month to select the current month's records, and Last 30 days or Last 7 days to select the records for the past 30 days or the past 7 days, respectively. To choose any custom date range, select the Custom Range option. Select the start date/time in the first calendar by clicking only once on date and only once on time and then the end date by clicking only once on date and only once on time in the calendar box.

• If records are to be selected dynamically to the current date, toggle on Datetime in days and fill in the From and To ranges where days are relative to the present day.

From Days	From Time	To Days 0	To Time

If you need to consider records from a specific range of days, for example, from the last days until today, follow these instructions:

From days: Enter 7.

To days: Enter 0.

Make sure to also specify the respective start and end times.

• The Access option lets the Admin user restrict users with roles other than admin from accessing the report or lets them access the report. To restrict the report to only the user, select Private or leave it as Public for access to all users. All private reports can be viewed and edited by any user with an administrator role.

Audit Logs Column Configuration

- The Select Parameters button triggers the Configure Audit Columns popup, where the users can select all the audit history parameters that are required by switching the toggle on. In the Display Name field next to the selected parameters, add the name to be displayed in the report for the selected parameter.
- Below are the Columns available for selection:

Serial No	Record no.
Category	Shows the category of the particular entry in the audit logs.
Local time	Shows the Date and Time of the log.
Message text	Shows the message text of a particular log.
Permission	Shows whether permission was granted or denied for the user.
Source type	Shows the type of source to which the log belongs to.

Source name	Shows the name of the source to which the log belongs.
User	Shows the details of the user who initiated the log.
User location	Shows the location of the user to which the log belongs to.

- To close the popup without saving changes, click the *Cancel* button or click the *Save* button to save changes.
- Once the columns are selected, the sort dropdowns will show up below. From the dropdown, select the column to sort the table from the *Sort By* dropdown and select whether to sort in ascending or descending order from the *Sort Order* dropdown.
- The *Filter* option lets the user filter the records by the given parameters. Enter the desired parameters and click *Apply Filter* and the filter will be applied. Toggle *Case Insensitive* to ignore case sensitivity. Click *Cancel* to close the *Filter Results* without saving the filters.

Scheduling

- To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - *Minutes:* Generate reports for every selected minute(s).
 - *Hourly:* Choose to generate the report for every selected hour(s).
 - Daily: Generate reports for either every selected number of days or every weekday at the selected time.
 - Weekly: Check the days of the week and the time when the report is to be generated from the Start Time dropdown.
 - Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

 Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Emailing Reports

- To enable mailing of reports, toggle the Send Email toggle on.
 - Now click on Email Recipient and the below popup opens.
 Email Recipients

Email Recipier	nts	×
Email	user@company.co	
E-ma ^{ti} l	Operation	
	Operation	
	× Cance	l 🕞 Save

- Enter your Email ID click on + to add and then click on save.
- Toggle *Ignore Empty Data* if the report is not to be mailed in case there is no data in the report.
- Click Save to save the configuration or Cancel to discard without saving changes.

Save Reports

• To save a report to the preconfigured location, toggle Save Report on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

• The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *PDF* toggle on, to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

Generating and Saving Report Configuration

- To save the configuration or to generate the report, click the Update button/generate button.
- To exit without saving changes, click the Cancel button.

Camera Report

The Camera Report compiles detailed reports of cameras that have been added to XProtect.

Create Or Schedule Report				
Report Configuration				
Selected Folder	Reports			
Report Type		, Report no.		
Report Name		Report Template		
Access				
Camera Column Configuration				
Camera Group				
Select Parameters				
Scheduling				
Schedule	•			
Additional Settings				
Send Email	Email Recipient	Ignore Empty Data	Save Report	
Data Only				
Export As				
Pdf		Excel		
				X Cancel 🖬 Generate

Create/Schedule Camera Report

Report Configuration

- The *Reporting No* field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Select the desired report template from the *Report Template* dropdown, based on which the reports will be generated. Camera Report has only one template named *DefaultCamera*.
- The Access option lets the Admin user restrict users with roles other than admin from accessing the report or lets them access the report. To restrict the report to only the user, select *Private* or leave it as *Public* for access to all users. All private reports can be viewed and edited by any user with an administrator role.

Camera Column Configuration

• The Select Parameters button triggers the Configure Camera Column popup, where the users can select all the Camera parameters that are required by switching the toggle on. The Snapshot toggle lets the users include a snapshot of that camera for that timestamp. In the Display Name field next to the selected parameters, add the name to be displayed in the report for the selected parameter.

•	Below	are the	Columns	available	for	selection:
---	-------	---------	---------	-----------	-----	------------

Serial No	Record no.
Address	Shows the IP Address of the camera.
Camera Age	Shows the camera age based on the camera installation date in the O-Insights custom camera properties section in the management client.
Camera Serial Number	Shows the camera serial number.
Firmware	Shows the camera firmware version.
Hardware	Shows name given to camera hardware.
Hardware Path	Shows the Hardware Path.
Installed Date	Shows the camera installed date picked up from the installation date in the O- Insights custom properties section in the management client.
Last Password Change	Shows the date of the last password
Date	change for the camera.
Location	Shows camera location picked up from the O-Insights custom properties section in the management client.
MAC Address	Shows the camera Mac address.
Manufacturer	Shows the name of the camera manufacturer.
Model	Shows the model number of the camera.
Motion Detection	Shows if motion detection is enabled for the camera.
Name	Shows the name of the camera.
No Password	Shows true if there is no password for the camera.
Password Age	Shows the camera password age based on the last password change date.

Recording Enabled	Shows True if recording is enabled for the camera.
Recording Server	Shows the name of the recording server for the camera.
Server	Shows the name of the management server to which the recording server for the camera is connected.
Status	Shows the camera's online/offline status
Storage Actual Retention Time	Shows the actual retention time for each camera.
Storage Available Size	Shows the free space in GB for storage to which camera recording is saved.
Storage Available Size Percentage	Shows the percentage of space available for storage.
Storage Encryption Method	Shows details of encryption if configured.
Storage Max Size	Shows the maximum assigned size of a storage.
Storage Name	Shows the name of the storage.
Storage Disk Path	Shows the path of storage.
Storage Retention Time	Shows the configured retention time for the live database. If it is configured for less than a day, then the value will be zero.
Storage Signing	Shows if storage signing is enabled.
Storage Used Size	Shows the used size of the storage.
Storage Used Size	Shows used size of the storage in
Percentage	percentage.
Туре	Shows camera type picked up from the O-Insights custom properties section in the management client.
Weak Password	Shows True for cameras with weak passwords based on default passwords stored in the configuration file.
Snapshot	Shows a snapshot of the camera.
Video Settings	Shows the video settings of the camera
Warranty End Date	Shows warranty end date picked up from the Warranty End date in the O- Insights custom properties section in the management client.

Note: The serial number column for the interconnect child site camera is currently displaying the SLC rather than the actual serial number.

- Once the parameters are selected, the sort dropdowns will show up below. From the dropdown, select the column to sort the table from the *Sort By* dropdown and select whether to sort in ascending or descending order from the *Sort Order* dropdown.
- The *Filter* option lets the user filter the records by the given parameters. Enter the desired parameters and click *Apply Filter* and the filter will be applied. Toggle *Case Insensitive* to ignore case sensitivity. Click *Cancel* to close the *Filter Results* without saving the filters.
- Additional rows like Frames per second, Resolution, etc can be added to the configure camera column by clicking the add button and then by entering the column name display name.

		~
StorageUsedSizePercentage		
Туре		
WeakPassword		
Snapshot		
VideoSettings		•
WarrantyEndDate		
× Cancel	+ Add	Save
Configure Camera Column		
WeakPassword		•
Snapshot		
Snapshot VideoSettings		
Snapshot VideoSettings WarrantyEndDate		
Snapshot VideoSettings WarrantyEndDate Resolution		•
Snapshot VideoSettings WarrantyEndDate Resolution Frames per second		

• The column name entered should exactly match the video settings of the camera as in the example below.



Scheduling

- To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - Minutes: Generate reports for every selected minute(s).
 - *Hourly:* Choose to generate the report for every selected hour(s).
 - Daily: Generate a report for either every selected number of days or every weekday at the selected time.
 - Weekly: Check the days of the week and the time when the report is to be generated from the *Start Time* dropdown.
 - Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.
 - Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Emailing Reports

- To enable the mailing of reports, toggle the Send Email toggle on:
 - To send to custom recipients, select *Email* from the in the *Email* field, enter the desired email address click the + button, and repeat until all email addresses are added. Click the trash icon to remove an added email address.
 - Toggle *Ignore Empty Data* if the report is not to be mailed in case there is no data in the report.
 - Click Save to save the configuration or Cancel to discard without saving changes.
Save Reports

• To save a report to the preconfigured location, toggle Save Report on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

• The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *PDF* toggle on, to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

- To save the configuration and/or generate the report, click the Update button.
- To exit without saving changes, click the Cancel button.

Storage Report

The Storage Report generates detailed reports for all storage configurations on the recording server.

Create Or Schedule Report							
Report Configuration							
Selected Folder	Reports						
Report Type			Report no.				
Report Name			Report Template				
Access							
Storage Column Configuration							
			Detailed Report				
E Select Parameters							
Scheduling							
Schedule							
Additional Settings							
Send Email	\bigcirc		Ignore Empty Data	\bigcirc	Save Report		
Data Only	\bigcirc						
Export As							
Pdf	\bigcirc		Excel	\bigcirc			
						× Cancel	🖥 Generate

Create/Schedule Storage Report

Report Configuration

- The *Reporting No* field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Select the desired report template from the *Report Template* dropdown, based on which the reports will be generated. Storage Report has 2 templates named DefaultStorage and DefaultStorage(Detailed).
- The Access option allows an administrator to restrict or grant access to reports for non-admin users. To restrict the report to only the user, select *Private* or leave it as *Public* for access to all users. All private reports can be viewed and edited by any user with an administrator role.

Storage Column Configuration

• The Select Parameters button triggers the Configure Storage Column popup, where the users can select all the Storage parameters that are required by switching the toggle on. In the Display Name field next to the selected parameters, add the name to be displayed in the report for the selected parameter.

Serial No	Record no.
Recording Server	Shows the name of the Recording
Name	Server.
	Shows the storage available size in
Available Size	GB/TB.
Available Size	Shows the storage available size
Percentage	percentage in %.
	Shows the status of storage based
	on the configuration in
	"QueryEngine.exe.config ("storage
	usage up to 60% will be shown as
	normal, if 90% space is used it will
	be shown as a Warning and if more
	than 90 % space is used it will be
Available Status	shown as critical").
Disk Path	Shows the storage path.
Encryption	
Method	Shows the encryption method.
Max Size	Shows the size of allocated storage.
	Shows the total configured
	retention time for the storage and
Retention Time	its archive.
	Shows the name given to the
Storage Name	storage.
Signing	Shows if storage signing is enabled.
	Shows the name of the
	management server to which the
Site	recording server is connected.
	Shows the storage used size in
Used Size	GB/TB.

• The Columns available for selection are given below:

T

_

- Once the parameters are selected, the sort dropdowns will show up below. From the dropdown, select the column to sort the table from the *Sort By* dropdown and select whether to sort in ascending or descending order from the *Sort Order* dropdown.
- The *Filter* option lets the user filter the records by the given parameters. Enter the desired parameters and click *Apply Filter* and the filter will be applied. Toggle *Case Insensitive* to ignore

case sensitivity. Click Cancel to close the Filter Results without saving the filters.

Scheduling

- To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - Minutes: Generate reports for every selected minute(s).
 - Hourly: Choose to generate the report for every selected hour(s).
 - Daily: Generate a report for either every selected number of days or every weekday at the selected time.
 - Weekly: Check the days of the week and the time when the report is to be generated from the *Start Time* dropdown.
 - Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.
 - Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Emailing Reports

- To enable the mailing of reports, toggle the Send Email toggle on:
 - To send to custom recipients, select *Email* from in the *Email* field, enter the desired email address click the + button, and repeat until all email addresses are added. Click the trash icon to remove an added email address.

- Toggle *Ignore Empty Data* if the report is not to be mailed in case there is no data in the report.
- Click Save to save the configuration or Cancel to discard without saving changes.

Save Reports

To save a report to the preconfigured location, toggle *Save Report* on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *PDF* toggle on, to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

- To save the configuration and/or generate the report, click the *Generate button*.
- To exit without saving changes, click the Cancel button.

Camera Health Report

The Camera Health Report provides detailed analysis of the health status for all cameras integrated with XProtect.

Data Collector Job

The Data Collector job is tasked with daily gathering and storage of data for camera storage size and camera health, according to a predefined schedule.

Camera health data is leveraged in reports to identify instances where a camera has been offline for an extended period without corresponding *Not Responding* Alarms in the database for the selected report duration.

Note: To make the report function correctly, it is necessary to configure Not Responding Alarms specifically for all cameras with the auto-close option checked to get accurate health status. Whenever a camera is offline for a longer duration of time and there are no Not Responding alarms in XProtect for the selected duration of the report, the reporting engine uses data from Data Collector Job to check for any not responding events available to calculate the camera health status. The Data collector job will log the online offline status of the camera when the job runs Daily.



Create/Schedule Camera Health Report

Report Configuration

- The *Reporting No* field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Select the desired report template from the *Report Template* dropdown, based on which the reports will be generated.
 Camera Health Report has 2 templates named DefaultCameraHealth and DefaultCameraHealth (Detailed).
- Select DefaultCameraHealth (Detailed) and Toggle DetailedReport to get more information like camera downtime stamp, camera uptime stamp, camera downtime & alarm status for each camera.

Report Configuration				
Selected Folder	Sample Reports			
Report Type	Camera Health		Report no.	
Report Name	Camera Health Report		Report Template	DefaultCameraHealth(Detailed) 🗸
Daterange Picker	苗 Last 7 Days 🔻		Datetime in Days	DefaultCameraHealth DefaultCameraHealth(Detailed)
Access				
Camera Health Column Configuration				
Detailed Report			Show all Cameras	



• Show All cameras if toggled will add all cameras to the report which does not have a not responding alarm for the selected time range.

Note: For those cameras which do not have *Not Responding* alarms for the selected time range, the *Camera status* is picked up by the Data collector job. This job is used to check if the camera is online or offline when it runs during the scheduled time. Any offline camera during that time is considered offline for the day in calculating the camera health.

• The Daterange Picker lets the user select the duration of time for which the camera health records need to be fetched, based

on which the report will be generated. The users can select Today to select Today's records, Yesterday to select Yesterday's records, Last 24 hours to select the records from the last 24 hours, This Month to select the current month's records, and Last 30 days or Last 7 days to select the records for the past 30 days or the past 7 days, respectively. To choose any custom date range, select the Custom Range option. Select the start date/time in the first calendar by clicking only once on date and only once on time and then the end date by clicking only once on date and only once on time in the calendar box.

• If records are to be selected dynamically to the current date, toggle on Datetime in days and fill in the From and To ranges where days are relative to the present day.

From Days	7	From Time	To Days	D	To Time

• If you need to consider records from a specific range of days, for example, from the last days until today, follow these instructions:

```
From days: Enter 7.
To days: Enter 0.
```

Make sure to also specify the respective start and end times.

• The Access option lets the Admin user restrict users with roles other than admin from accessing the report or lets them access the report. To restrict the report to only the user, select *Private* or leave it as *Public* for access to all users. All private reports can be viewed and edited by any user with an administrator role.

Camera Health Column Configuration

• The Select Parameters button triggers the Configure Camera Health Column popup, where the users can select all the Camera Health parameters that are required by switching the toggle on. In the Display Name field next to the selected parameters, add the name to be displayed in the report for the selected parameter.

Serial No	Pecord no
Marga	Chause the name of the same
Name	Shows the name of the camera
Source IP	Shows the IP Address of the camera
	Shows the name of the recording server for
Recording Server	the camera
	Shows the time for which the camera is
	Online for a selected time range of the
Up Time	report
	Shows the time for which the camera is
	Offline for a selected time range of the
Down Time	report
	Shows the % uptime for which the camera is
Up Time	Online for a selected time range of the
Percentage	report
:	Shows the % downtime for which the
Down Time	camera is Offline for a selected time range
Percentage	of the report
	Shows the name of the management server
	to which the recording server for the
Server	camera is connected
	Shows camera location picked up from the
	O-Insights custom properties section in the
Source Location	management client
	Shows camera type picked up from the O-
	Insights custom properties section in the
Source Type	management client

• Below are the columns available for selection:

- Once the parameters are selected, the sort dropdowns will show up below. From the dropdown, select the column to sort the table from the *Sort By* dropdown and select whether to sort in ascending or descending order from the *Sort Order* dropdown.
- The *Filter* option lets the user filter the records by the given parameters. Enter the desired parameters and click *Apply Filter* and the filter will be applied. Toggle *Case Insensitive* to ignore case sensitivity. Click *Cancel* to close the *Filter Results* without saving the filters.

Scheduling

• To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.

- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - *Minutes:* Generate reports for every selected minute(s).
 - Hourly: Choose to generate the report for every selected hour(s).
 - Daily: Generate a report for either every selected number of days or every weekday at the selected time.
 - Weekly: Check the days of the week and the time when the report is to be generated from the *Start Time* dropdown.
 - Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.
 - Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Emailing Reports

- To enable mailing of reports, toggle the Send Email toggle on.
 - To send to custom recipients, select *Email* from in the *Email* field, enter the desired email address, and click the + button, and repeat until all email addresses are added. Click the trash icon to remove an added email address.
 - Toggle *Ignore Empty Data* if the report is not to be mailed in case there is no data in the report.
 - Click Save to save the configuration or Cancel to discard without saving changes.

Save Reports

• To save a report to the preconfigured location, toggle *Save Report* on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

• The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *PDF* toggle on, to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

- To save the configuration and/or generate the report, click the Update button.
- To exit without saving changes, click the Cancel button.

Camera Recording Report

The Camera Recording Report provides detailed information on Recording Available and Recording Gaps for each camera connected to XProtect. This report is particularly useful for identifying any gaps in recording, especially in systems set for continuous recording.

Report Configuration				
Selected Folder	Reports			
Report Type		V Report no.		
Report Name		Report Template		
Daterange Picker	🚔 Today 👻	Datetime in Days	•	
Access				
User Column Configuration				
Detailed Report	•	Ignore Gap (In Seconds)		
Camera Group				
Select Parameters				
Scheduling				
Schedule	•			
Email Save Report				
Send Email	Email Recipient	Ignore Empty Data	Save Report	
Export As				
Pdf	•	Excel	•	
CSV				
				Generate

Create/Schedule Camera Recording Report

Report Configuration

- The *Reporting No* field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Select the desired report template from the Report Template dropdown, based on which the reports will be generated.
 Camera Health Report has 2 templates named DefaultCameraRecording and DefaultCameraRecording (Detailed).
- Select DefaultCameraHealth (Detailed) and Toggle DetailedReport to get more information on when the recording has stopped/started for each of the cameras.
- **The Recording Gap** in seconds needs to be entered here to ignore minimum gaps in recording which is acceptable.

Report Configuration			
Selected Folder			
Report Type	Camera Recording	Report no.	
Report Name	Camera Recording Report	Report Template	DefaultCameraRecording(Detailed) 🗸 🗸
Daterange Picker	🗎 Today 👻	Datetime in Days	
Access			
Alarm Column Configur	ation		
Detailed Report		Ignore Gap (In Seconds)	1

Report Configuration

- The Daterange Picker lets the user select the duration of time for which the records need to be fetched, based on which the report will be generated. The users can select Today to select Today's records, Yesterday for selecting Yesterday's records, Last 24 hours to select the records for last 24 hours, This Month to select the current month's records, and Last 30 days or Last 7 days to select the records for the past 30 days or the past 7 days, respectively. To choose any custom date range, select the Custom Range option. Select the start date/time in the first calendar by clicking only once on date and only once on time and then the end date by clicking only once on date and only once on time in the calendar box.
- If records are to be selected dynamically to the current date, toggle on Datetime in days and fill in the From and To ranges where days are relative to the present day.

From Days 7	From Time	To Days	0 To Time	•

• If you need to consider records from a specific range of days, for example, from the last days until today, follow these instructions:

```
From days: Enter 7.
```

To days: Enter 0.

Make sure to also specify the respective start and end times.

• The Access option allows an administrator to restrict or grant access to reports for non-admin users. To restrict the report to only the user, select *Private* or leave it as *Public* for access to all users. All private reports can be viewed and edited by any user with an administrator role.

Camera Recording Column Configuration

- The Select Parameters button triggers the Configure Camera Recording Column popup, where the users can select the parameters that are required by switching the toggle on. In the Display Name field next to the selected parameters, add the name to be displayed in the report for the selected parameter. To generate a camera recording report, it is essential to include the Name column in your selection. The report cannot be generated without the inclusion of the Name column.
 - Serial No Record no. Name Shows the name of the camera Shows the name of the management server to which the recording server for camera is connected. Server Recordina Shows the name of the recording server for the camera. Server **IP** Address Shows the IP Address of the camera. Shows camera location picked up from the O-Insights custom properties section Location in the management client. Shows camera type picked up from the O-Insights custom properties section in the management client. Type Shows the time for which the recording Recording is available for a selected time range of Available the report. Shows the time for which the recording is not available for a selected time range Recording Gap of the report. Recording Shows the % of available recordings Available% for a selected time range of the report. Recording Gap Shows the % of recordings not available for a selected time range of the report. %
- The columns available for selection are given below:

- Once the parameters are selected, the sort dropdowns will show up below. From the dropdown, select the column to sort the table from the *Sort By* dropdown and select whether to sort in ascending or descending order from the *Sort Order* dropdown.
- The *Filter* option lets the user filter the records by the given parameters. Enter the desired parameters and click *Apply Filter* and the filter will be applied. Toggle *Case Insensitive* to ignore

case sensitivity. Click Cancel to close the Filter Results without saving the filters.

Scheduling

- To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - Minutes: Generate reports for every selected minute(s).
 - Hourly: Choose to generate the report for every selected hour(s).
 - Daily: Generate a report for either every selected number of days or every weekday at the selected time.
 - Weekly: Check the days of the week and the time when the report is to be generated from the *Start Time* dropdown.
 - Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use The nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.
 - Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use The nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Emailing Reports

- To enable mailing of reports, toggle the Send Email toggle on.
 - To send to custom recipients, select *Email* from in the *Email* field, enter the desired email address click the + button, and repeat until all email addresses are added. Click the trash icon to remove an added email address.
 - Toggle *Ignore Empty Data* if the report is not to be mailed in case there is no data in the report.

• Click Save to save the configuration or Cancel to discard without saving changes.

Save Reports

• To save a report to the preconfigured location, toggle Save Report on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

• The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *PDF* toggle on, to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

- To save the configuration and/or generate the report, click the Update button.
- To exit without saving changes, click the Cancel button.

Recording Server Health Report

The Recording Server Health Report generates a report of the health status of all recording servers added to the management server.

Note: To make the report function correctly, it is necessary to configure *Not Responding Alarms* specifically for all recording servers with the auto-close option checked to get accurate health status.



Create/Schedule Recording Server Health Report

Report Configuration

- The *Reporting No* field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Select the desired report template from the *Report Template* dropdown, based on which the reports will be generated.
 Camera Report has only one template named DefaultRecordingServerHealth.
- Show All Recording Servers if toggled will add all recording servers to the report which does not have a server not responding alarm for the selected time range.
- The Daterange Picker lets the user select the duration of time for which the records need to be fetched, based on which the report will be generated. The users can select *Today* to select

Today's records, Yesterday to select Yesterday's records, Last 24 hours to select the records for the last 24 hours, This Month to select the current month's records, and Last 30 days or Last 7 days to select the records for the past 30 days or the past 7 days, respectively. To choose any custom date range, select the *Custom Range* option. Select the start date/time in the first calendar by clicking only once on date and only once on time and then the end date by clicking only once on date and only once on time in the calendar box.

• If records are to be selected dynamically to the current date, toggle on Datetime in days and fill in the From and To ranges where days are relative to the present day.

From Days	From Time	To Days 0	To Time
			23 🗙 : 59 🗙

• If you need to consider records from a specific range of days, for example, from the last days until today, follow these instructions:

From days: Enter 7.

To days: Enter 0.

Make sure to also specify the respective start and end times.

• The Access option allows an administrator to restrict or grant access to reports for non-admin users. To restrict the report to only the user, select *Private* or leave it as *Public* for access to all users. All private reports can be viewed and edited by any user with an administrator role.

Scheduling

- To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - *Minutes:* Generate reports for every selected minute(s).
 - Hourly: Choose to generate the report for every selected hour(s).
 - Daily: Generate a report for either every selected number of days or every weekday at the selected time.
 - Weekly: Check the days of the week and the time when the report is to be generated from the *Start Time* dropdown.

- Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.
- Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Recording Server Health Column Configuration

• The Select Parameters button triggers the Configure Recording Server Health Column popup, where the users can select all the parameters that are required by switching the toggle on. In the Display Name field next to the selected parameters, add the name to be displayed in the report for the selected parameter.

Serial No	Record no.
Name	Shows the name of the camera
	Shows the name of the management
	server to which recording server for
Server	camera is connected
	Shows the time for which the server is
	Online
Up Time	for a selected time range of the report
	Shows the time for which the server is
	Offline
Down Time	for a selected time range of the report
	Shows the % uptime for which the
Up Time	server is Online
Percentage	for a selected time range of the report
	Shows the % downtime for which the
Down Time	server is Offline for a selected time
Percentage	range of the report

• The Columns available for selection are given below:

• Once the parameters are selected, the sort dropdowns will show up below. From the dropdown, select the column to sort

the table from the *Sort By* dropdown and select whether to sort in ascending or descending order from the *Sort Order* dropdown.

• The *Filter* option lets the user filter the records by the given parameters. Enter the desired parameters and click *Apply Filter* and the filter will be applied. Toggle *Case Insensitive* to ignore case sensitivity. Click *Cancel* to close the *Filter Results* without saving the filters.

Emailing Reports

- To enable mailing of reports, toggle the Send Email toggle on.
 - To send to custom recipients, select *Email* from in the *Email* field, and enter the desired email address. Click the + button and repeat until all email addresses are added. Click the trash icon to remove an added email address.
 - Toggle *Ignore Empty Data* on if the report is not to be mailed in case there is no data in the report.
 - Click Save to save the configuration or Cancel to discard without saving changes.

Save Reports

• To save a report to the preconfigured location, toggle *Save Report* on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

• The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *PDF* toggle on, to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

- To save the configuration and/or generate the report, click the Update button.
- To exit without saving changes, click the Cancel button.

Recording Server Report

The Recording Server Report generates comprehensive reports for all recording servers added to the XProtect Management Server.

Create Or Schedule Report				
Report Configuration				
Selected Folder	Reports			
Report Type		V Report no.		
Report Name		Report Template		
Access				
Bookmark Column Configuration				
None selected -		Detailed Report	•••	
Select Parameters				
Scheduling				
Schedule				
Email Save Report				
Send Email	Email Recipient	Ignore Empty Data	Save Report	
Export As				
Pdf	•	Excel		
CSV	•			

Create/Schedule Recording Server Report

Report Configuration

- The *Reporting No* field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Select the desired report template from the *Report Template* dropdown, based on which the reports will be generated. The default is *DefaultRecordingServer*[*Detailed*].
- Select the desired report template from the Report Template dropdown, based on which the reports will be generated.
 Recording Server Report has 2 templates named DefaultRecordingServer and DefaultRecordingServer (Detailed).
- Select DefaultRecordingServer (Detailed) and Toggle DetailedReport to get more information like Storage Name/Available Size/Available Size Percentage/Storage Available Status/Disk Path/Encryption Status/Max Size/Used Size/Storage Signing Status for each storage configured for the recording server

Report Type	Recording Server	~	Report no.	າ
Report Name	Recording Server Report		Report Template	DefaultRecordingserver(Detailed)
Access	Private			DefaultRecordingserver DefaultRecordingserver(Detailed)
Recording Server Colum	n Configuration			
DESKTOP-ST	2QKOF +		Detailed Report	

• The Access option allows an administrator to restrict or grant access to reports for non-admin users. To restrict the report to only the user, select *Private* or leave it as *Public* for access to all users. All the reports that are private can be viewed and edited by any user with an administrator role.

Recording Server Column Configuration

• The Select Parameters button triggers the Configure Recording Server Column popup, where the users can select all the parameters that are required by switching the toggle on. In the Display Name field next to the selected parameters, add the name to be displayed in the report for the selected parameter.

Serial No	Record no.
Host Name	Shows the Host Name.
Web Server Address	Shows the Web Server Address.
Max Size (In GB)	Shows the Sum of all storage (GB) configured for the recording server.
Used Size (In GB)	Shows the total used size for all configured storage in GB.
Available Size (In GB)	Shows the total available size for all configured storage in GB.
Available Size	
Percentage	Shows the % of total available space.
	Shows the status of the recording
Status	server.

• The columns available for selection are given below:

• Once the parameters are selected, the sort dropdowns will show up below. From the dropdown, select the column to sort the table from the *Sort By* dropdown and select whether to sort in ascending or descending order from the *Sort Order* dropdown.

- The required servers for which the report must be generated can be selected from the server dropdown.
- The *Filter* option lets the user filter the records by the given parameters. Enter the desired parameters and click *Apply Filter* and the filter will be applied. Toggle *Case Insensitive* to ignore case sensitivity. Click *Cancel* to close the *Filter Results* without saving the filters.

Scheduling

- To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - Minutes: Generate reports for every selected minute(s).
 - Hourly: Choose to generate the report for every selected hour(s).
 - Daily: Generate a report for either every selected number of days or every weekday at the selected time.
 - Weekly: Check the days of the week and the time when the report is to be generated from the *Start Time* dropdown.
 - Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.
 - Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Emailing Reports

- To enable mailing of reports, toggle the Send Email toggle on.
 - To send to custom recipients, select *Email* from in the *Email* field, enter the desired email address click the + button, and repeat until all email addresses are added. Click the trash icon to remove an added email address.
 - Toggle *Ignore Empty Data* if the report is not to be mailed in case there is no data in the report.
 - Click Save to save the configuration or Cancel to discard without saving changes.

Save Reports

• To save a report to the preconfigured location, toggle *Save Report* on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

• The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *PDF* toggle on, to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

- To save the configuration and/or generate the report, click the Update button.
- To exit without saving changes, click the Cancel button.

Evidence Report

The Evidence Report generates detailed reports on evidence locks created within XProtect.

Create Or Schedule Report						
Report Configuration						
Selected Folder	Reports					
Report Type		Report no.				
Report Name		Report Template				
Daterange Picker	曽 Today 👻	Datetime in Days	\bigcirc			
Access						
Evidence Column Configuration						
Scheduling						
Schedule						
Email Save Report						
Send Email		Ignore Empty Data		Save Report	(
Export As						
Pdf		Excel				
					× Cancel	Generate

Create/Schedule Evidence Report

Report Configuration

- The Reporting No field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Report template helps to Select the desired report template from the dropdown, based on which the reports will be generated. Evidence Lock Report has only one template named DefaultEvidence.
- The Access option allows an administrator to restrict or grant access to reports for non-admin users. To restrict the report to only the user, select *Private* or leave it as *Public* for access to all users. All private reports can be viewed and edited by any user with an administrator role.

Evidence Column Configuration

- The Select Parameters button triggers the Configure Evidence Column popup, where the users can select all the parameters that are required by switching the toggle on. In the Display Name field next to the selected parameters, add the name to be displayed in the report for the selected parameter.
- The columns available for selection are given below:

Serial No	Record no.
Camera	Shows the name of the camera.
Created Time	Show the time and date of creation of the evidence lock.
Description	Shows the description entered while creating an evidence lock.
End Time	Shows the end date & time of the evidence locked video.
Header	Shows the Headline entered while creating evidence lock.
Last Modified	Shows the date and time of modification of an existing evidence lock.
Retention Expire	Shows the date and time of expiry of the evidence lock.
Snapshot	Shows the snapshot of the camera at the time of locking the evidence.
Start Time	Shows the start date and time of evidence locked video.
Tag Time	Shows the tag date and time of evidence lock
User	Shows details of the user who created the evidence lock.

- Once the parameters are selected, the sort dropdowns will show up below. From the dropdown, select the column to sort the table from the *Sort By* dropdown and select whether to sort in ascending or descending order from the *Sort Order* dropdown.
- To select the desired camera groups on which the report must be generated, click the *Camera Group* button, and from the popup, choose the required camera group.
- The *Filter* option lets the user filter the records by the given parameters. Enter the desired parameters and click *Apply Filter* and the filter will be applied. Toggle *Case Insensitive* to ignore case sensitivity. Click *Cancel* to close the *Filter Results* without saving the filters.

Scheduling

- To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - *Minutes:* Generate reports for every selected minute(s).

- Hourly: Choose to generate the report for every selected hour(s).
- Daily: Generate reports for either every selected number of days or every weekday at the selected time.
- Weekly: Check the days of the week and the time when the report is to be generated from the *Start Time* dropdown.
- Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.
- Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Emailing Reports

- To enable mailing of reports, toggle the Send Email toggle on.
 - To send to custom recipients, select *Email* from in the *Email* field, enter the desired email address click the + button, and repeat until all email addresses are added. Click the trash icon to remove an added email address.
 - Toggle Ignore Empty Data if the report is not to be mailed in case there is no data in the report.
 - Click Save to save the configuration or Cancel to discard without saving changes.

Save Reports

• To save a report to the preconfigured location, toggle *Save Report* on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

• The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *PDF* toggle on, to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

- To save the configuration and/or generate the report, click the Update button.
- To exit without saving changes, click the Cancel button.

Camera Status Count Report

The Camera Status Report generates detailed reports on the number of cameras that are online and offline, as well as the status of the recording server.

Create Or Schedule Report				×
Report Configuration				
Selected Folder	Reports			
Report Type		🗸 Report no.		
Report Name		Report Template		
Access				
Camera Status Configuration				
Camera	•	Server		
Select Parameters				
Scheduling				
Schedule				
Email Save Report				
Send Email	Email Recipient	Ignore Empty Data	Save Report	
Export As				
Pdf		Excel		
CSV				
				× Cancel

Create/Schedule Camera Status Report

Report Configuration

- The *Reporting No* field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Report template helps to Select the desired report template from the dropdown, based on which the reports will be generated. Camera Status Count Report has only one template named DefaultCameraStatus.
- The Access option allows an administrator to restrict or grant access to reports for non-admin users. To restrict the report to only the user, select *Private* or leave it as *Public* for access to all users. All private reports can be viewed and edited by any user with an administrator role.

Camera Status Column Configuration

• The Select Parameters button triggers the Configure Camera Status Column popup, where the users can select all the Camera Status parameters that are required by switching the toggle on. In the Display Name field next to the selected parameters, add the name to be displayed in the report for the selected parameter.

Serial No	Record no.
	Shows the row item as the camera or
	recording server based on the options
Item Type	selected.
	Shows the total count of the cameras/
Total Count	recording servers.
	Shows the Online count of cameras/
Online Count	recording servers.
	Shows the Offline count of cameras/
Offline Count	recording servers.
	Shows the Type of camera/ recording server
	based on tags added in O-Insights custom
Location	camera properties.
	Shows the Type of camera/recording server
	based on tags added in O-Insights custom
Туре	camera properties.
Recording	Shows the recording server to which the
Server	camera is added.
Site	Shows the management server details.

• The columns available for selection are given below:

- Once the parameters are selected, the sort dropdowns will show up below. From the dropdown, select the column to sort the table from the *Sort By* dropdown and select whether to sort in ascending or descending order from the *Sort Order* dropdown.
- The *Filter* option lets the user filter the records by the given parameters. Enter the desired parameters and click *Apply Filter* and the filter will be applied. Toggle *Case Insensitive* to ignore case sensitivity. Click *Cancel* to close the *Filter Results* without saving the filters.

Scheduling

- To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - *Minutes:* Generate reports for every selected minute(s).
 - Hourly: Choose to generate the report for every selected hour(s).

- Daily: Generate reports for either every selected number of days or every weekday at the selected time.
- Weekly: Check the days of the week and the time when the report is to be generated from the *Start Time* dropdown.
- Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.
- Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Emailing Reports

- To enable mailing of reports, toggle the Send Email toggle on.
 - To send to custom recipients, select *Email* from in the *Email* field, enter the desired email address click the + button, and repeat until all email addresses are added. Click the trash icon to remove an added email address.
 - Toggle *Ignore Empty Data* if the report is not to be mailed in case there is no data in the report.
 - Click Save to save the configuration or Cancel to discard without saving changes.

Save Reports

• To save a report to the preconfigured location, toggle Save Report on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

• The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *PDF* toggle on, to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

- To save the configuration and/or generate the report, click the Update button.
- To exit without saving changes, click the Cancel button.

Bookmark Report

The Recording Server Report generates reports based on Bookmark done in XProtect.

reate Report							
Create Or Schedule Report							
Report Configuration							
Selected Folder	Reports						
Report Type			Report no.				
Report Name			Report Template				
Daterange Picker			Datetime in Days	•			
Access							
Bookmark Column Configuration							
Camera Group							
Select Parameters							
Scheduling							
Schedule	_						
Email Save Report							
Send Email			Ignore Empty Data	• •	Save Report		
Export As							
Pdf			Excel	• _			
csv							
						× Cancel	Generate

Create/Schedule Bookmark Report

Report Configuration

- The *Reporting No* field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Report template helps to Select the desired report template from the dropdown, based on which the reports will be generated. Bookmark Report has only one template named *DefaultBookmark*.
- The Access option allows an administrator to restrict or grant access to reports for non-admin users. To restrict the report to only the user, select *Private* or leave as *Public* for access to all users. All reports which are private can be viewed and edited by any user with administrator role.

Bookmark Column Configuration

• The Select Parameters button triggers the Configure Bookmark Column popup, where the users can select all the parameters that are required by switching the toggle on. In the Display Name field next to the selected parameters, add the name to be displayed in the report for the selected parameter.

Serial No	Record no.
	Shows the time and date of creation of the
Time Triggered	Bookmark.
Camera	Shows the name of the camera.
	Shows the description entered while
Description	creating a Bookmark.
	Shows the Headline entered while
Header	creating a Bookmark.
	Shows details of the user who created the
User	Bookmark.
Snapshot	Shows the snapshot of the camera.
	Shows the start date and time of
Time Begin	Bookmark.
	Shows the end date and time of the
Time End	Bookmark.

• The columns available for selection are given below:

- Once the parameters are selected, the sort dropdowns will show up below. From the dropdown, select the column to sort the table from the *Sort By* dropdown and select whether to sort in ascending or descending order from the *Sort Order* dropdown.
- To select the desired camera groups on which the report must be generated, click the *Camera Group* button, and from the popup, choose the required camera group.
- The *Filter* option lets the user filter the records by the given parameters. Enter the desired parameters and click *Apply Filter* and the filter will be applied. Toggle *Case Insensitive* to ignore case sensitivity. Click *Cancel* to close the *Filter Results* without saving the filters.

Scheduling

- To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - Minutes: Generate reports for every selected minute(s).
 - Hourly: Choose to generate the report for every selected hour(s).

- Daily: Generate a report for either every selected number of days or every weekday at the selected time.
- Weekly: Check the days of the week and the time when the report is to be generated from the *Start Time* dropdown.
- Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.
- Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Emailing Reports

- To enable mailing of reports, toggle the Send Email toggle on.
 - To send to custom recipients, select *Email* from in the *Email* field, enter the desired email address click the + button, and repeat until all email addresses are added. Click the trash icon to remove an added email address.
 - Toggle *Ignore Empty Data* if the report is not to be mailed in case there is no data in the report.
 - Click Save to save the configuration or Cancel to discard without saving changes.

Save Reports

• To save a report to the preconfigured location, toggle *Save Report* on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

• The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *PDF* toggle on,

to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

- To save the configuration and/or generate the report, click the Update button.
- To exit without saving changes, click the *Cancel* button.
LPR Report

The LPR Report generates detailed reports based on License Plate Recognition (LPR) data available in XProtect. It utilizes the XProtect® module equipped with LPR technology to capture and analyze license plates. This system categorizes vehicles by plate color and generates comprehensive reports, providing advanced insights based on the collected license plate data.

Create Or Schedule Report					×
Report Configuration					
Selected Folder	Reports				
Report Type		V Report no.			
Report Name		Report Template			
Daterange Picker	曽 Today 🔫	Datetime in Days	\bigcirc		
Access					
Lpr Column Configuration					
Camera Group					
Select Parameters					
Scheduling					
Schedule	•				
Additional Settings					
Send Email	\bigcirc	Ignore Empty Data	\bigcirc	Save Report	\bigcirc
Data Only	<u> </u>				
Export As					
Pdf		Excel			
CSV	<u> </u>				

Create/Schedule LPR Report

Setting Up LPR with Dynamic Tags

For LPR to function properly, cameras must be tagged within the XProtect Management Client. This process involves Dynamic Tags, which can be created and added as properties:

- Accessing Tag Settings: Navigate to Management Client -> Cameras -> O-InsightsCustomProperties.
- Adding a Tag:
 - Click on the ³ icon will open the below window.

Properties				
Custom Camera Properti	es			
Associated Camera:	LPR Camera Lane 1			
Location	Pune		+	6
Туре	Outdoor		•	
Installed Date	2021-05-16	YYYY-MM-DD		
Warranty End Date	2022-05-15	YYYY-MM-DD		
💿 Configure Dyn	amic Tags			×
Dynamic Tags Tag Name: Tag Name LPRCamera		Tag Type: string marker Tag Type marker		
LPRSeconda	ŋ,	string	Save	

- Enter a tag name and choose either string or marker.
- Click on the + to add the new tag, then click *Save*.
- Configuring Tags for LPR:

Properties				
- Custom Camera Propert	ies			
Associated Camera:	LPR Camera Lane 1			
Location	Pune		+	G
Туре	Outdoor		•	
Installed Date	2021-05-16	YYYY-MM-DD		
Warranty End Date	2022-05-15	YYYY-MM-DD		
💿 Configure Dyn	amic Tags			×
Dynamic Tags				
Tag Name:		Tag Type:	~ +	
		string		
Tag Name		Tag Type		
LPRCamera LPRCamera	LPRCamera marker			
LENSeconda	LPRSecondary string			
			Ĩ	
				-
			Save	

• Add LPRCamera as a marker tag and LPRSecondary as a string tag.

Properties		
Custom Camera Proper	ties	
Associated Camera	LPR Camera Lane 1	
Location	Pune	+ 6
Туре	Outdoor	
Installed Date	2021-05-16 YYYY-MM-DD	
Warranty End Date	2022-05-15 YYYY-MM-DD	
LPRCamera		Ĩ
LPRSecondary	Driver Image Camera Lane 1	ĩ
	• Select Tag X	
	Select Tag LPRCamera LPRSecondary	

• After adding tags, click on the + icon, select the tags from the *Select Tag* popup click on *Add*.

Devices 👻 🤻	Properties			
E-S Cameras	Custom Camera Properti	ies		
LPR Solution of the second	Associated Camera:	LPR Camera Lane 1		
	Location	Pune	+	6
	Туре	Outdoor		
	Installed Date	2021-05-16 YYYY-MM-DD		
	Warranty End Date	2022-05-15 YYYY-MM-DD		
	LPRCamera		Î	
	LPRSecondary	Driver Image Camera Lane 1	Ĩ	
	🚺 Info 🍪 Settings 📗	🔟 Streams 🥚 Record 🖈 Motion 🔘 Fis	sheye Lens 🗐 🗐 Clien	Privacy maskin

- In the *LPRSecondary* tag field, specify the camera used to capture the driver's image.
- Color Classification keys

These are the default color classifications. If you wish to make changes to these keys, you can modify the configuration at this path C:\Program Files\O-Insights Query Engine\DominantColor.dll.config

<add key="White" value="Private Vehicle"/> <add key="Yellow" value="Commercial Vehicle"/> <add key="Green" value="Electric Vehicle"/> <add key="Blue" value="Diplomat Vehicle"/> <add key="Black" value="Rental Vehicle"/> <add key="DarkGreen" value="Army Vehicle"/> <add key="Red" value="VIP Vehicle"/> <add key="Undefined" value="Undefined Vehicle"/>

- Updating System Settings:
 - Once tags are configured, run a cache update job.
 - Restart the Smart Client to update the dashboard/reporting system with these changes.

Report Configuration

- The *Reporting No* field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Select the desired report template from the *Report Template* dropdown, based on which the reports will be generated. The default is *DefaultLPR*.
- The Access option allows an administrator to restrict or grant access to reports for non-admin users. To restrict the report to only the user, select *Private* or leave it as *Public* for access to all users. All private reports can be viewed and edited by any user with an administrator role.

LPR Column Configuration

• The Select Parameters button triggers the Configure LPR Column popup, where the users can select all the parameters that are required by switching the toggle on. In the Display Name field next to the selected parameters, add the name to be displayed in the report for the selected parameter.

Serial No	Record no.
Timestamp	Shows the Date and Time of License plate capture
Camera Name	Shows the name of the camera.
Secondary Camera	Shows the name of the camera used for Driver's
Name	Image.
Date	Shows the Date of License plate capture.
Time	Shows the Time of License plate capture.
	Hour column can be used in the report if the Data
	is to be plotted on a Ranking Chart and the user
	wants to see how many vehicles have passed per
Hour	hour for a particular lane.
Plate Number	Shows the Plate Number.

• The columns available for selection are given below:

Plate Image	Shows the Image of the Number Plate.		
	Shows the complete image from which the Plate		
Complete Image	Image is taken.		
Driver Image	Shows the driver's Image.		
	Shows the vehicle category based on number		
Vehicle Category	plate colour.		

- Once the parameters are selected, the sort dropdowns will show up below. From the dropdown, select the column to sort the table from the *Sort By* dropdown and select whether to sort in ascending or descending order from the *Sort Order* dropdown.
- To select the desired camera groups on which the report must be generated, click the *Camera Group* button, and from the popup, choose the required camera group.
- The *Filter* option lets the user filter the records by the given parameters. Enter the desired parameters and click *Apply Filter* and the filter will be applied. Toggle *Case Insensitive* to ignore case sensitivity. Click *Cancel* to close the *Filter Results* without saving the filters.

Scheduling

- To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - *Minutes:* Generate reports for every selected minute(s).
 - *Hourly:* Choose to generate the report for every selected hour(s).
 - Daily: Generate a report for either every selected number of days or every weekday at the selected time.
 - Weekly: Check the days of the week and the time when the report is to be generated from the Start Time dropdown.
 - Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

 Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Emailing Reports

- To enable mailing of reports, toggle the Send Email toggle on.
 - To send to custom recipients, select *Email* from in the *Email* field, and enter the desired email address. Click the + button, and repeat until all email addresses are added. Click the trash icon to remove an added email address.
 - Toggle *Ignore Empty Data* if the report is not to be mailed in case there is no data in the report.
 - Click Save to save the configuration or Cancel to discard without saving changes.

Save Reports

• To save a report to the preconfigured location, toggle *Save Report* on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

• The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *PDF* toggle on, to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

- To save the configuration and/or generate the report, click the Update button.
- To exit without saving changes, click the Cancel button.

User Report

The User Report generates detailed reports on user details and their respective roles within XProtect.

Create Or Schedule Report							
Report Configuration							
Selected Folder	Reports						
Report Type			Report no.				
Report Name			Report Template				
Access							
User Column Configuration							
Select Parameters							
Scheduling							
Schedule	-						
Email Save Report							
Send Email	•		Ignore Empty Data	_	Save Report		•
Export As							
Pdf			Excel	-			
CSV							
						× Cancel	B Generate

Create/Schedule User Report

Report Configuration

- The Reporting No field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Select the desired report template from the *Report Template* dropdown, based on which the reports will be generated. User Report has only one template named *DefaultUser*.
- The Access option allows an administrator to restrict or grant access to reports for non-admin users. To restrict the report to only the user, select *Private* or leave it as *Public* for access to all users. All private reports can be viewed and edited by any user with an administrator role.

User Column Configuration

- The Select Parameters button triggers the Configure User Column popup, where the users can select all the parameters that are required by switching the toggle on. In the Display Name field next to the selected parameters, add the name to be displayed in the report for the selected parameter.
- The columns available for selection are given below:

Serial No	Record no.
-----------	------------

ID	Shows the XProtect User ID.
Name	Shows the name of the user.
	Shows the Role to which the user is
Roles	assigned to.
Site	Shows the site name.
	Shows the description entered while
Description	creating a basic user.
Created Date	Shows the date and time of creation of a particular user.
	Shows the date and time of modification
Last Modified	of a particular user.
SID	Shows the XProtect User ID.
	Shows True if the user is allowed to
Can Change	change the password from the smart
Password	client login screen using a browser.
Force Password	Shows True if the user is forced to change
Change	the password on the next login.
	Shows if the user is enabled or locked out
Status	by the admin.
LockoutEnd	Shows the Lockout End Datetime.
	Shows True for Windows users and False
Is External	for Basic User.

- Once the parameters are selected, the sort dropdowns will show up below. From the dropdown, select the column to sort the table from the *Sort By* dropdown and select whether to sort in ascending or descending order from the *Sort Order* dropdown.
- The *Filter* option lets the user filter the records by the given parameters. Enter the desired parameters and click *Apply Filter* and the filter will be applied. Toggle *Case Insensitive* to ignore case sensitivity. Click *Cancel* to close the *Filter Results* without saving the filters.

Scheduling

- To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - *Minutes:* Generate reports for every selected minute(s).
 - *Hourly:* Choose to generate the report for every selected hour(s).

- *Daily:* Generate a report for either every selected number of days or every weekday at the selected time.
- Weekly: Check the days of the week and the time when the report is to be generated from the *Start Time* dropdown.
- Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.
- Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Emailing Reports

- To enable mailing of reports, toggle the Send Email toggle on.
 - To send to custom recipients, select *Email* from the in the *Email* field, enter the desired email address. Click the + button and repeat until all email addresses are added. Click the trash icon to remove an added email address.
 - Toggle *Ignore Empty Data* if the report is not to be mailed in case there is no data in the report.
 - Click Save to save the configuration or Cancel to discard without saving changes.

Save Reports

• To save a report to the preconfigured location, toggle *Save Report* on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

• The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *PDF* toggle on, to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

- To save the configuration and/or generate the report, click the Update button.
- To exit without saving changes, click the Cancel button.

Devices Report

The Device Report generates detailed reports on cameras, microphones, speakers, recording servers, outputs, which also includes disabled devices within XProtect.

CREATE OR SCHEDULE	REPORT			
Report Configuration				
Selected Folder :	Userdefined			
Report Type		Report No		
Report Name		Report Template		
Access				
Devices Configuration				
Select Parameters				
Scheduling				
Schedule				
Email/Save Report				
Send Email	Email Recipient	Ignore Empty Data	Save Report	
Export As				
Pdf		Excel		

Create/Schedule Devices Report

Report Configuration

- The *Reporting No* field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Report template helps to Select the desired report template from the dropdown, based on which the reports will be generated. Devices Report has only one template named *DefaultDevices*.
- The Access option allows an administrator to restrict or grant access to reports for non-admin users. To restrict the report to only the use, select *Private* or leave as *Public* for access to all users. All private reports can be viewed and edited by any user with an administrator role.

Events Column Configuration

• The Select Parameters button triggers the Configure Devices Column popup, where the users can select all the Devices parameters that are required by switching the toggle on. In the Display Name field next to the selected parameters, add the name to be displayed in the report for the selected parameter.

Serial No	Record no.
	Shows the device name of the camera,
Name	Microphone, Speaker & Outputs.
	Type of device such as Camera, Microphone,
Tvpe	Speaker & Outputs.

• The columns available for selection are given below:

- Once the parameters are selected, the sort dropdowns will show up below. From the dropdown, select the column to sort the table from the *Sort By* dropdown and select whether to sort in ascending or descending order from the *Sort Order* dropdown.
- The *Filter* option lets the user filter the records by the given parameters. Enter the desired parameters and click *Apply Filter* and the filter will be applied. Toggle *Case Insensitive* to ignore case sensitivity. Click *Cancel* to close the *Filter Results* without saving the filters.

Scheduling

- To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - *Minutes:* Generate reports for every selected minute(s).
 - *Hourly:* Choose to generate the report for every selected hour(s).
 - Daily: Generate a report for either every selected number of days or every weekday at the selected time.
 - Weekly: Check the days of the week and the time when the report is to be generated from the Start Time dropdown.
 - Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

 Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Emailing Reports

- To enable mailing of reports, toggle the Send Email toggle on.
 - To send to custom recipients, select *Email* from in the *Email* field, enter the desired email address.
 Click the + button and repeat until all email addresses are added. Click the trash icon to remove an added email address.
 - Toggle *Ignore Empty Data* if the report is not to be mailed in case there is no data in the report.
 - Click Save to save the configuration or Cancel to discard without saving changes.

Save Reports

• To save a report to the preconfigured location, toggle *Save Report* on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

• The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *Pdf* toggle on, to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

- To save the configuration and/or generate the report, click the Update button.
- To exit without saving changes, click the Cancel button.

Disabled Device Report

The Disabled Devices Report generates a report of devices disabled in XProtect.

Create Or Schedule Report				×
Report Configuration				
Selected Folder	Sample Reports			
Report Type		V Report no.		
Report Name		Report Template		
Access				
Disabled Devices Configuration				
Disabled Device Types				
Select Parameters	3 columns are selected	▼ Filter		
Sort By		- Sort Order		
Scheduling				
Schedule	•			
Additional Settings				
Send Email	Email Recipient	Ignore Empty Data	Save Report	
Data Only				
Export As				
Pdf		Excel		
CSV	• • • • • • • • • • • • • • • • • • •			

Create/Schedule Disabled Devices Report

Report Configuration

- The *Reporting No* field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Report template helps to Select the desired report template from the dropdown, based on which the reports will be generated. Disabled Devices Report has only one template named DefaultDisabledDevices.
- The Access option lets the user with administrator role restrict users with roles other than admin from accessing the report or lets them access the report. To restrict the report to only the user, select *Private* or leave as *Public* for access to all users. All reports which are private can be viewed and edited by any user with administrator role.

Disabled Devices Column Configuration

• To add device types, enter the device types in the *Disabled Device Type* field separated by commas if multiple device types should be considered in report. For example, to generate a report for all disabled cameras, speakers, and microphones then data should be entered as Camera, Speaker, and Microphone.

- The Select Parameters button triggers the Configure Disabled Devices Column popup, where the users can select all the parameters that are required by switching the toggle on. In the Display Name field next to the selected parameters, add the name to be displayed in the report for the selected parameter.
- The columns available for selection are given below:

Serial No	Record no.
	Shows the device name of the
Name	Camera/Microphone/Speaker & Outputs
	Type of device such as Camera, Microphone,
Туре	Speaker, Outputs.

- Once the parameters are selected, the sort dropdowns will show up below. From the dropdown, select the column to sort the table from the *Sort By* dropdown and select whether to sort in ascending or descending order from the *Sort Order* dropdown.
- The *Filter* option lets the user filter the records by the given parameters. Enter the desired parameters and click *Apply Filter* and the filter will be applied. Toggle *Case Insensitive* to ignore case sensitivity. Click *Cancel* to close the *Filter Results* without saving the filters.

Scheduling

- To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - Minutes: Generate reports for every selected minute(s).
 - Hourly: Choose to generate the report for every selected hour(s).
 - Daily: Generate a report for either every selected number of days or every weekday at the selected time.
 - Weekly: Check the days of the week and the time when the report is to be generated from the *Start Time* dropdown.

- Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.
- Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Emailing Reports

- To enable mailing of reports, toggle the Send Email toggle on.
 - To send to custom recipients, select *Email* from in the *Email* field, enter the desired email address.
 Click the + button and repeat until all email addresses are added. Click the trash icon to remove an added email address.
 - Toggle *Ignore Empty Data* on if the report is not to be mailed in case there is no data in the report.
 - Click Save to save the configuration or Cancel to discard without saving changes.

Save Reports

• To save a report to the preconfigured location, toggle *Save Report* on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

• The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *PDF* toggle on, to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

- To save the configuration and/or generate the report, click the Update button.
- To exit without saving changes, click the Cancel button.

Events Report

The Events Report generates a report of all saved Events in XProtect.

Create Or Schedule Report						
Report Configuration						
Selected Folder	Reports					
Report Type			Report no.			
Report Name			Report Template			
Daterange Picker	📋 Today 👻		Datetime in Days	•		
Access						
Events Column Configuration						
Select Parameters						
Scheduling						
Schedule						
Email Save Report						
Send Email	•		Ignore Empty Data	\bigcirc	Save Report	
Export As						
Pdf			Excel	\bigcirc		
csv						

Create/Schedule Events Report

Report Configuration

- The Reporting No field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Report template helps to Select the desired report template from the dropdown, based on which the reports will be generated.Events Report has only one template named *DefaultEvents*.
- The Daterange Picker lets the user select the duration of time for which the records need to be fetched, based on which the report will be generated. The users can select Today to select Today's records, Yesterday to select Yesterday's records, Last 24 hours to select the records from the last 24 hours, This Month to select the current month's records, and Last 30 days or Last 7 days to select the records for the past 30 days or the past 7 days, respectively. To choose any custom date range, select the Custom Range option. Select the start date/time in the first calendar by clicking only once on date and only once on time and then the end date by clicking only once on date and only once on time in the calendar box.
- If records are to be selected dynamically to the current date, toggle on Datetime in days and fill in the From and To ranges where days are relative to the present day.

From Days	7	From Time	To Days	0	To Time

• If you need to consider records from a specific range of days, for example, from the last days until today, follow these instructions:

From days: Enter 7. To days: Enter 0.

- Make sure to also specify the respective start and end times.
- The Access option allows an administrator to restrict or grant access to reports for non-admin users. To restrict the report to only the user, select *Private* or leave it as *Public* for access to all users. All private reports can be viewed and edited by any user with an administrator role.

Events Column Configuration

• The Select Parameters button triggers the Configure Events Column popup, where the users can select all the Events parameters that are required by switching the toggle on. In the Display Name field next to the selected parameters, add the name to be displayed in the report for the selected parameter.

Serial No	Record no.
Туре	Shows the Type of Event.
Message	Shows the Message.
Time	Shows the Date and Time of Event.
Source	Shows the Source of the Event.
	Shows the name of the Management
Site	Server.
	Shows the IP Address of the Source (In
Source IP	case the event is from the camera).
	Shows camera location picked up
	from the O-Insights custom properties
Source Location	section in the management client.
	Shows camera type picked up from
	the O-Insights custom properties
Source Type	section in the management client.
Source	Shows the name of the recording
Recording Server	server for the camera.

• The columns available for selection are given below:

• Once the parameters are selected, the sort dropdowns will show up below. From the dropdown, select the column to sort

the table from the *Sort By* dropdown and select whether to sort in ascending or descending order from the *Sort Order* dropdown.

• The *Filter* option lets the user filter the records by the given parameters. Enter the desired parameters and click *Apply Filter* and the filter will be applied. Toggle *Case Insensitive* to ignore case sensitivity. Click *Cancel* to close the *Filter Results* without saving the filters.

Scheduling

- To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - Minutes: Generate reports for every selected minute(s).
 - Hourly: Choose to generate the report for every selected hour(s).
 - Daily: Generate a report for either every selected number of days or every weekday at the selected time.
 - Weekly: Check the days of the week and the time when the report is to be generated from the Start Time dropdown.
 - Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.
 - Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Emailing Reports

• To enable mailing of reports, toggle the Send Email toggle on.

- To send to custom recipients, select *Email* from in the *Email* field, enter the desired email address. Click the + button, and repeat until all email addresses are added. Click the trash icon to remove an added email address.
- Toggle *Ignore Empty Data* if the report is not to be mailed in case there is no data in the report.
- Click Save to save the configuration or Cancel to discard without saving changes.

Save Reports

• To save a report to the preconfigured location, toggle Save Report on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

• The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *PDF* toggle on, to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

- To save the configuration and/or generate the report, click the Update button.
- To exit without saving changes, click the Cancel button.

Access Control Events Report

The Access Control Events Report generates a report of all access control Events saved in XProtect.

Selected Folder :	Userdefined		
Report Type		Report No	
Report Name		Report Template	
Daterange Picker	₩ -	Datetime In Days	
Access			
Access Control Events Co	lumn Configuration		
Select Parameters			
Scheduling			
Schedule	-		
Email/Save Report			
Send Email	Email Recipient	Ignore Empty Data	Save Report
Export As			
Pdf	•	Excel	•
Csv			

Create/Schedule Access Control Events Report

Report Configuration

- The *Reporting No* field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Report template helps to Select the desired report template from the dropdown, based on which the reports will be generated. Access Control Report has only one template named DefaultAccessControlEvents.
- The Daterange Picker lets the user select the duration of time for which the records need to be fetched, based on which the report will be generated. The users can select Today to select Today's records, Yesterday for selecting Yesterday's records, Last 24 hours to select the records from the last 24 hours, This Month to select the current month's records, and Last 30 days or Last 7 days to select the records for the past 30 days or the past 7 days, respectively. To choose any custom date range, select the Custom Range option. Select the start date/time in the first calendar by clicking only once on date and only once on time and then the end date by clicking only once on date and only once on time in the calendar box.

• If records are to be selected dynamically to the current date, toggle on *Datetime in days* and fill in the *From* and *To* ranges where *days* are relative to the present day.



 If you need to consider records from a specific range of days, for example, from the last days until today, follow these instructions: From days: Enter 7.

To days: Enter 0.

- Make sure to also specify the respective start and end times.
- The Access option allows an administrator to restrict or grant access to reports for non-admin users. To restrict the report to only the user, select *Private* or leave it as *Public* for access to all users. All private reports can be viewed and edited by any user with an administrator role.

Access Control Events Column Configuration

- The Select Parameters button triggers the Configure Access Control Events Column popup, where the users can select all the Access Control Events parameters that are required by switching the toggle on. In the Display Name field next to the selected parameters, add the name to be displayed in the report for the selected parameter.
- The columns available for selection are given below:

Serial No	Record no.
Access	Shows details of the access control
System	system.
Credential	
Holder	Shows ID of card holder.
Message	Shows the message.
	Shows the source from which the
Source	message originated.
	Shows the Type of event as access control
Туре	system events.
Time	Shows the Date and Time of the Event.

• Once the parameters are selected, the sort dropdowns will show up below. From the dropdown, select the column to sort the table from the *Sort By* dropdown and select whether to sort

in ascending or descending order from the *Sort Order* dropdown.

• The *Filter* option lets the user filter the records by the given parameters. Enter the desired parameters and click *Apply Filter* and the filter will be applied. Toggle *Case Insensitive* to ignore case sensitivity. Click *Cancel* to close the *Filter Results* without saving the filters.

Scheduling

- To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - Minutes: Generate reports for every selected minute(s).
 - Hourly: Choose to generate the report for every selected hour(s).
 - Daily: Generate a report for either every selected number of days or every weekday at the selected time.
 - Weekly: Check the days of the week and the time when the report is to be generated from the *Start Time* dropdown.
 - Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.
 - Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Emailing Reports

• To enable mailing of reports, toggle the Send Email toggle on.

- To send to custom recipients, select *Email* from the in the *Email* field, enter the desired email address click the + button, and repeat until all email addresses are added. Click the trash icon to remove an added email address.
- Toggle *Ignore Empty Data* if the report is not to be mailed in case there is no data in the report.
- Click Save to save the configuration or Cancel to discard without saving changes.

Save Reports

• To save a report to the preconfigured location, toggle Save Report on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

• The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *PDF* toggle on, to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

- To save the configuration and/or generate the report, click the Update button.
- To exit without saving changes, click the Cancel button.

IoT Analytics Report

The Analytics report type produces analytic reports for selected points, aggregating point values based on chosen criteria to provide insights.

For instance, a point could be a temperature sensor transmitting temperature values, or in the context of a camera, it could involve people counting information sent by the camera.

Create Or Schedule Report						×
Report Configuration						
Selected Folder						
Report Type			Report no.			
Report Name			Report Template			
Daterange Picker	苗 Today 👻		Datetime in Days			
Access						
Analytics Column Configuration						
				Time Interval		
Scheduling						
Schedule	-					
Additional Settings						
Send Email			Ignore Empty Data	\bigcirc	Save Report	
Data Only	\bigcirc					
Export As						
Pdf	\bigcirc		Excel			
	\bigcirc					
						Generate

Create/Schedule IoT analytics Report

Report Configuration

- The Reporting No field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Report template helps to Select the desired report template from the dropdown, based on which the reports will be generated. Access Control Report has only one template named DefaultAccessControlEvents.
- The Daterange Picker lets the user select the duration of time for which the records need to be fetched, based on which the report will be generated. The users can select Today to select Today's records, Yesterday to select Yesterday's records, Last 24 hours to select the records from the last 24 hours, This Month to select the current month's records, and Last 30 days

or Last 7 days to select the records for the past 30 days or the past 7 days, respectively. To choose any custom date range, select the *Custom Range* option. Select the start date/time in the first calendar by clicking only once on date and only once on time and then the end date by clicking only once on date and only once on time in the calendar box.

If records are to be selected dynamically to the current date, toggle on *Datetime in days* and fill in the *From* and *To* ranges where *days* are relative to the present day.

From Days	From Time	To Days 0	To Time

• If you need to consider records from a specific range of days, for example, from the last days until today, follow these instructions:

From days: Enter 7. To days: Enter 0.

Make sure to also specify the respective start and end times.

• The Access option allows an administrator to restrict or grant access to reports for non-admin users. To restrict the report to only the user, select *Private* or leave it as *Public* for access to all users. All private reports can be viewed and edited by any user with an administrator role.

Analytics Configuration

The Select Histories button triggers the Configure History popup, where the users can add the histories for points on which analytic operations are to be performed.

CONFIGURE ANALY	псѕ						×
History		🚽 Display Name					
Description							
Rollup:		Aggregation:		× Inherit			
Column Name	Display Name	Description	Rollup	Aggregation	Enabled	Operation	
timestamp	Timestamp						

Configure Analytics

 From the History dropdown, select the required history on which analytic operations are to be performed, and in the Display Name field, add the name to be displayed for the row and click the + icon. Repeat the process until all the required histories are added. Click the trash icon to delete an entry or the pen icon to edit an existing entry.



• The *Rollup* option is for performing the selected operation on the records between intervals for the selected historical records. For instance,

We have a temperature sensor integrated, and we need to find a peak of temperature value on an hourly basis.

Another example would be getting an hourly or daily average of count of vehicles in the parking area.

- Inherit: The roll-up selected in the Analytics button option will get inherited.
- Sum: Sum of all the records within the chosen Time Interval.
- Difference: Difference between the first and last records within the chosen Time Interval.
- *Max:* The highest recorded value within the chosen Time Interval.
- *Min:* The lowest recorded value within the chosen Time Interval.
- *First:* **First record within the chosen Time Interval.**
- Last: Last record within the chosen Time Interval.
- Average: The average of all the records within the chosen Time Interval.
- Count: Counts the number of records.
- The Aggregation option lets the user aggregate all the records for a single point in a separate table. Aggregation types are like rollup operations mentioned above, the

values will be aggregated as a single value based on the operation chosen.

For example, if a temperature sensor is integrated, you might need to identify the peak temperature for a particular day.

Another example could involve calculating the total count of vehicles in a parking area for a day or month.

- To close the popup without saving changes, click the Cancel button or click the *Save* button to save changes.
- The Enable/Disable option is used to either enable or disable a specific history to be plotted in the report.
- The Operation option allows you to edit or delete the configurations per history.
- The *Time Interval* field allows the user to specify the time interval between records in minutes. All the records within the specified interval will be rolled up.
- The *Analytics* button enables performing analytics on the selected histories. Common analytics configuration can be done on the selected histories.

ANALYTICS FILTERS			×	
Rollup	None			
Aggregation	* None			
Group Aggregation	* None			
Missing Data Strategy	None			
Consider Additional Days				
		× Cancel	🖽 Apply Analytics	

Configure Analytics Filters

ANALYTICS FILTERS				×
Rollup	None			
Aggregation	None Sum Average Min			
Group Aggregation	Max Difference			
Missing Data Strategy	First Last			
Consider Additional Days				
		× Cancel	🖽 Apply Analy	ytics

- The Rollup option is for performing the selected operation on the records between intervals for the selected historical records.
- Sum: Sum of all the records within the chosen Time Interval.
- Difference: Difference between the first and last records within the chosen Time Interval.
 - Max: The highest recorded value within the chosen Time Interval.
 - *Min:* The lowest recorded value within the chosen *Time Interval*.
 - First: First record within the chosen Time Interval.
 - Last: Last record within the chosen Time Interval.
 - Average: The average of all the records within the chosen *Time Interval*.
 - Count: Counts the number of records.
 - Range: The Range option is the same as Difference, but the last record in this case is like the first record of the next day of the date range selected. For instance, if five days are selected in the date range, the first record of the sixth day will be the last record. If there are no records available within the next day after the chosen date range, then the last record within the chosen interval will be considered. As in the above instance, if there are no records on the sixth day, then the last record of the fifth day will be considered.

ANALYTICS FILTERS				×
Rollup	None			~
Aggregation	* None			
Group Aggregation	None			
	Sum			
Missing Data Strategy	Average			
Consider Additional	Min			
Days	Max			
	Difference			
		× Cancel	🖽 Apply Anal	ytics

• The Aggregation option lets the user aggregate all the records for a single point as a column in a separate table.

ANALYTICS FILTERS		×
Rollup	None	
Aggregation	* None	
Group Aggregation	* None	
Missing Data Strategy	None Sum	
Consider Additional Days	Average Min Max	
	🗙 Cancel 🛛 🖽 Apply A	nalytics

 The Group Aggregation aggregates different points of the same timestamp based on the aggregation type. Aggregation types are similar to rollup operations mentioned above, the values will be aggregated as a single value based on the operation chosen.

- For instance, if multiple temperature sensors are integrated, you might need to determine the peak temperatures recorded by these sensors over the course of a day.
- Another example could involve cameras installed on different floors to count people; you might need to aggregate the total count of people across all floors.

ANALYTICS FILTERS		×
Rollup	None	
Aggregation	* None	
Group Aggregation	× None	
Missing Data Strategy	None	
Consider Additional Days	None Linear Interpolation K Nearest Neighbors	
	× Cancel 🖽 Apply Ana	alytics

- The Missing Data Strategy lets the user use missing data strategies like *K*-Nearest Neighbour and Linear Interpolation to fill in the missing data.
 - K-Nearest Neighbour is for numeric and Boolean records. For intervals, other than none, this strategy replaces a missing value by calculating the majority value recorded for the item's k nearest neighbours. The number of neighbours to consider is k. The system selects k's previous and next nearest neighbours to calculate the missing value. If a tie occurs between two values, the algorithm selects the lowest timestamp value.

- The interpolation algorithm linearly interpolates the missing values based on the surrounding values in the series.
- There are three locations where data can be missing:
 - At the beginning of the series.
 - Interspersed among the series.
 - At the end of the series.

ANALYTICS FILTERS				×
Rollup	None			~
Aggregation	* None			
Group Aggregation	× None			
Missing Data Strategy	K Nearest Neigh	bors		~
	K Value		0	
Consider Additional Days				
	×	(Cancel	🖽 Apply Analy	rtics

 K Value: The number of neighbouring values to be considered while using the K-Nearest Neighbour missing strategy.

ANALYTICS FILTERS			×
Rollup	None		
Aggregation	* None		
Group Aggregation	* None		
Missing Data Strategy	None		
Consider Additional Days			
		× Cancel	Apply Analytics

Consider Additional Days: This option is applicable only when using Range as the roll-up type. For example, for calculating last month's consumption, it's necessary to take the difference between the value on the first day of the last month and the value on the first day of the current month.

Scheduling

- To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - *Minutes:* Generate reports for every selected minute(s).
 - Hourly: Choose to generate the report for every selected hour(s).
 - Daily: Generate a report for either every selected number of days or every weekday at the selected time.
 - Weekly: Check the days of the week and the time when the report is to be generated from the *Start Time* dropdown.
 - Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.
 - Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Emailing Reports

- To enable mailing of reports, toggle the Send Email toggle on.
 - To send to custom recipients, select *Email* from the in the *Email* field, and enter the desired email address. Click the + button and repeat until all

email addresses are added. Click the trash icon to remove an added email address.

- Toggle *Ignore Empty Data* if the report is not to be mailed in case there is no data in the report.
- Click Save to save the configuration or Cancel to discard without saving changes.

Save Reports

• To save a report to the preconfigured location, toggle Save Report on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

• The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *PDF* toggle on, to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

- To save the configuration and/or generate the report, click the Update button.
- To exit without saving changes, click the Cancel button.

Report Information & Report Actions

The user can perform various actions on the existing reports that are created and listed on the Create Reports page.

\odot	Reports ▶ Create Report									DESKT	OP-ST2	QKOF\	•
•	B 🖬 🖊 🖬 🌔												
٥	🗕 🛅 Reports	Reports											Import
=	Sample Reports					User				Repo	rt Type		
₩										All			
-		Show 10	 Entries 							Search			
•••		No. 🕸	Name	Creation Date	Created By		Access Type	1 Schedul	ər		Actions		
e,			Event Report	01-Aug-2024 15:17:06	DESKTOP-ST2QKOF\		private	Not Sche	duled				
8		16	Disabled Device Reports	01-Aug-2024 12:19:27	DESKTOP-ST2QKOF\		private	Not Sche	duled	4		y 💼	



Report Table

- The users can filter the reports by applying a filter on User or Report Type from the dropdown above the table.
- The user can also search for any report where the report type is public.
- The *Name* column shows the report name as configured by the user while creating/scheduling the report.
- The Creation Date field shows the date/time of report creation.
- The Created by Field shows details of the user who created the report.
- The Access Type shows if the report is private or public.
- The Scheduler Column shows if a report is configured to run on a schedule or is not scheduled.

Reports								Export	🛢 Import
				User			Repo	rt Type	
Show 10	✓ Entries						Search		
No.	† Name	Creation Date	Created By		Access Type	Scheduler		Actions	
	Camera Status Count Report	29-Jul-2024 17:24:47	DESKTOP-ST2QKOF\ajosh		private	Scheduled			

• Below are the functions of buttons under the Action Column

button opens a window that shows all the runs of the report as below:

Report List									×
Show 10 v Entries					Search				
Name	Start DateTime	End DateTime	Created By	Status		Actions			
Camera Status Count Report	03-Aug-2024 12:12:44	03-Aug-2024 12:12:44	DESKTOP-ST2QKOF\ajosh						
Camera Status Count Report	01-Aug-2024 12:25:43	01-Aug-2024 12:25:44	DESKTOP-ST2QKOF\ajosh						
Showing 1 to 2 of 2 Entries									

Clicking on opens the report in PDF format.

Clicking on eili con will open the report within the Smart Client.

Clicking on icon will cancel a run of the report when its status is Running if Okay is clicked on the pop-up screen after the icon is clicked.

Report List								×
Name	Start DateTime	End DateTime	Created By		Status		Action	
			(
			!)					
		Are Yo	Are You Sure					
		This will ca	ncel the job!					

Clicking on site icon will delete the run of the report if *Okay* is clicked on the pop-up screen after the icon is clicked.

Clicking on 🖊 icon will allow a user to edit the report parameters.

Clicking on \square icon will cancel the report schedule.

Clicking on 📕 icon on the report table page will delete the report.

Clicking on 🙋 icon will run the report once.

Exporting/Importing Report



The reports can be imported and exported with the *Export/Import* options.



• Export report: Click Export to export all the reports generated or choose any report from the options. Save the file to the
desired directory. This can be later imported as per requirement.

• Import report: Click Import to import report. From the Explorer window, choose an exported report file and click open.

Import Report				Warning Reports with names a exist. Enter a new rep	already port name.
File Name: Choose File ExportedRepo2418	28.20.json			Export Type	🛢 Import
Report Name	New Report Name				
Access Control Event Report					
Event Report					
User Report					

• If the user already has reports with the same name, then a warning message will be displayed to enter a new name for the report. After entering a new name click on *Import* in the same window.

View Reports

The View Reports page lists all the reports that are generated based on the reports created/scheduled by the user. The report table shows information such as Name (Report Name), Start Datetime (Start Time of the run), End Datetime (End Time of the run), Created By, Status (report status), and Actions.

0	Reports View Report				DES	(TOP-ST2QKOF\	
₿							
٥	🗎 Last 7 Days 🔻		Report Name My Re		Report Status		
=	Show 10 v Entries						
	Name	Start DateTime	End DateTime	Created By	Status	Actions	
	Camera Status Count Report	08-Aug-2024 12:00:00	08-Aug-2024 12:00:01	DESKTOP-ST2QKOF\			
۹	Storage Report	07-Aug-2024 22:21:45	07-Aug-2024 22:21:49	DESKTOP-ST2QKOF\	Success		

View Reports

Filtering View Reports Table

- Click the date range picker dropdown at the top corner of the table area to expand and select the date for which the job records are to be shown. The users can select *Today* to select Today's records, *Yesterday* to select Yesterday's records, *Last 24 hours* to select the records from the last 24 hours, *This Month* to select the current month's records, and *Last 30 days* or *Last 7 days* to select the records for the past 30 days or the past 7 days, respectively. To choose any custom date range, select the *Custom Range* option and select the start date/time in the first and the end date/time in the second.
- The Report Name dropdown field has two categories, My Reports, and Public Reports. Under My Reports, all the reports created by the user are nested, and under Public Reports, all the reports created by the other users that are of public access type are listed. The list can be filtered by entering the partial/complete report name in the dropdown text field.
- The Report Status dropdown lets the user filter the table by the status of the report job, where Success is completed, Running is a job that is in progress, Queued is a report that is queued and will start as the other reports running ahead are completed, Cancelled is a user cancelled report, and Incomplete is a report that has aborted without completion.
- The Refresh button next to the date range picker dropdown refreshes the table and shows the updated report status.

Report Actions

• In the action column of each record, the eye views the report in PDF, the table icon opens the report within the Smart Client, the cross icon stops the generation of the report if it is running, and the trash icon deletes the run of the report.

All Reports

The *All Reports* page compiles all generated reports based on usercreated or scheduled reports. Notably, an Admin User has the privilege to access and view reports created by other users, even those marked as private.

The report table shows information such as *Name* (Report Name), *Creation Date* (Start Time of the report), *Created by* (user), *Access Type* (Public/Private), *Scheduler*, and *Actions*.



All Reports

Filtering All Reports Table

- The User dropdown lets the Admin user filter the table by the user who created it.
- The *Report Type* dropdown lets the Admin user filter the table by the type of the report.

Report Actions

- The first eye icon triggers a *Report List* popup which shows all the generated instances of the report. In the popup, click the eye icon to view the report, the cross icon to stop the generation of the report if it is running, and the trash icon to delete the instance of the report from the database. To search/filter items, type the text in the *Search* field. To close the popup, click the close button (x) in the right top corner of the popup.
- The second pen icon edits the report, where the user can modify the date-time range, column configuration, scheduling, email/save options, and export formats. To close the popup without saving changes, click the *Cancel* button or click the *Update* button to save changes.
- The third generate icon generates a single instance of the report. To cancel the generation, click the eye icon, and from the list, click the second *x* button in the row. The state will

change from *Running* to *Cancelled*. Alternatively, the same can be done from the *View Report* page.

• To delete a report, click the trash icon, and in the popup that appears, click *Okay* or *Cancel* to not delete the report. Deleting the report will delete all the jobs associated with the report and cannot be undone.

Action Reports

Action Reports facilitate taking direct remediating action of camera properties or storage size based on generated reports.

It is important to note that video settings can vary among different cameras, so you must specify the video setting and its corresponding value for updates to be applied.

Note: In the Camera Report, you can modify both the camera password and various video settings such as resolution and frames per second (FPS).

Regarding the storage report, you can adjust the MaxSize and RetentionTime settings.

In case we run the action on storage retention (number of days of storage) and if the storage has an archive configured for it, Only the number of days of retention of the live database will be updated and the of days of retention of archive storage is not changed.

Similarly, when the storage size is updated from action reports then the storage size of only the live database is changed, and the archive is not changed.

Create Action Report

The first step to creating an action report is to create a camera detail report or storage report.

To act on a report, go to the reports list, and click on the eye icon. This will show all the runs of the report.

Report List							:	×
Show 10 v Entries					Search			
Name	Start DateTime	End DateTime	Created By	Status		Actior	ıs	
Storage Report	05-Aug-2024 5:50:22	05-Aug-2024 5:50:23	DESKTOP-ST2QKOF\ajosh					
Storage Report	05-Aug-2024 5:49:40	05-Aug-2024 5:49:41	DESKTOP-ST2QKOF\ajosh					
Storage Report	03-Aug-2024 19:40:07	03-Aug-2024 19:40:08	DESKTOP-ST2QKOF\ajosh					
Storage Report	03-Aug-2024 19:33:37	03-Aug-2024 19:33:41	DESKTOP-ST2QKOF\ajosh					
Showing 1 to 4 of 4 Entries								ext

Now click on the 💷 icon to open the Data View pop up as below:

Data View										[+ Action Rep	port 🗶
Show 10 v entries Search:												
Serial No 📗	Site	Recording Server Name 🕸	Disk Path	Storage Name	Available Status	ii I	Max Size 📗	Used Size	Available Size	Available Size Percentage	Retentio	n Time 🔢
1	desktop-st2qkof	DESKTOP-ST2QKOF	D:\MediaDatabase	Local default	Normal		250.0GB	34.0MB	250.0GB	99.99	20 Days	
2	desktop-st2qkof	DESKTOP-ST2QKOF	D:\Storage5	Storage 5	Normal		300.0GB	5.5GB	294.5GB	98.17	5 Days	
Showing 1 to 2	of 2 entries											

In the data view pop up click on Action Report to open the pop up to make changes to the parameter.



The dropdown will show the list of parameters that can be changed for the report. The user must select the parameter, enter the value in the field below, and click the update button to update the value on the management server.

View Action Report

Once done, the executed action reports can be viewed in the *Action Report* **option under** *Reports.*



Click on Action Report to open the view action report window.

0	Reports View Action Repo	ort							
0									
٥	03-08-2024 00:00 - 03-00			Report Name			Report Status		
=	Show 10 - Entries								
2	Report Name	Start DateTime	End DateTime	Created By		Action Field	Action Value	Status	Actions
	Storage Report	03-Aug-2024 19:40:01	03-Aug-2024 19:40:02	DESKTOP-ST2QKOF	ajosh	MaxSize	250 GB		· · · ·
а п	Storage Report	03-Aug-2024 19:34:56	03-Aug-2024 19:34:59	DESKTOP-ST2QKOF	ajosh	RetentionTime	20 Days		
	Showing 1 to 2 of 2 Entries								
E.									
٠									

View Action Report

Filtering View Action Report Table

- Click the date range picker dropdown at the top corner of the table area to expand and select the date for which the action report records are shown. The users can select *Today* to select Today's records, *Yesterday* to select Yesterday's records, *Last 24 hours* to select the records for the last 24 hours, *This Month* to select the current month's records, and *Last 30 days* or *Last 7 days* to select the records for the past 30 days or the past 7 days, respectively. To choose any custom date range, select the *Custom Range* option. Select the start date/time in the first calendar by clicking only once on date and only once on time and then the end date by clicking only once on date and only once on time in the calendar box.
- The Report Name dropdown field has two categories, My Reports, and Public Reports. Under My Reports, all the reports created by the user are nested, and under Public Reports, all the reports created by the other users that are of public access

type are listed. The list can be filtered by entering the partial/complete report name in the dropdown text field.

- The Report Status dropdown lets the user filter the table by the status of the user report, where Success is completed, Running is a job that's in progress, Queued is a report that's queued and will start as the other reports running ahead are completed, Cancelled is a user cancelled report, and Incomplete is a report that has aborted without completion.
- The refresh button next to the date range picker dropdown refreshes the table and shows the updated Report Status.

Action Report - Actions

• In the Actions column of each record, the table views the report details, the cross icon stops the generation of the report if it is currently running, and the trash icon deletes the report record.

Analytics

Camera Analytics

The Camera Analytics Report provides an analysis of data such as the frequency of camera disconnections and the average disconnection time in hours, organized on a daily, weekly, or monthly basis.

CREATE OR SCHEDULE ANALYTIC	'S			ж					
Analytics Configuration									
Selected Folder	Reportsl								
Analytics Type		Analytics No							
Analytics Name		Analytics Template							
Daterange Picker	🚔 Today 👻	Datetime in Days							
Access									
Camera Analytics Column Configu	Camera Analytics Column Configuration								
Detailed Report									
Camera Group									
Scheduling									
	_								
Schedule	-								
Email/Save Analytics									
Send Email	Email Recipient	Ignore Empty Data	Save Analytics						
Export As									
Pdf	•	Excel	•						
	•								
			× Cancel 🛛 🖨 Gen	erate					

Create/Schedule Camera Analytics

Report Configuration

- The *Reporting No* field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Select the desired report template from the *Report Template* dropdown, based on which the reports will be generated.
 Camera Analytics Report has 2 templates named DefaultCameraAnalytics and DefaultCameraAnalytics (Detailed).
- Select DefaultCameraAnalytics (Detailed) and Toggle DetailedReport to get more information like camera downtime stamp, camera uptime stamp, camera downtime & alarm status for each camera.

- The Daterange Picker lets the user select the duration of time for which the audit logs need to be fetched, based on which the report will be generated. The users can select Today to select Today's records, Yesterday to select Yesterday's records, Last 24 hours to select the records from the last 24 hours, This Month to select the current month's records, and Last 30 days or Last 7 days to select the records for the past 30 days or the past 7 days, respectively. To choose any custom date range, select the Custom Range option. Select the start date/time in the first calendar by clicking only once on date and only once on time and then the end date by clicking only once on date and only once on time in the calendar box.
- If records are to be selected dynamically to the current date, toggle on Datetime in days and fill in the From and To ranges where days are relative to the present day.

From Days	7	From Time		0	To Time

 If you need to consider records from a specific range of days, for example, from the last days until today, follow these instructions: From days: Enter 7.

To days: Enter 0.

- Make sure to also specify the respective start and end times.
- The Access option allows an administrator to restrict or grant access to reports for non-admin users. To restrict the report to only the user, select *Private* or leave it as *Public* for access to all users. All private reports can be viewed and edited by any user with an administrator role.

Camera Analytics Column Configuration

- The Select Parameters button triggers the Configure Camera Analytics Column popup, where the users can select all the Camera parameters that are required by switching the toggle on. In the Display Name field next to the selected parameters, add the name to be displayed in the report for the selected parameter.
- The columns available for selection are given below:

Serial No	Record no.
Name	Shows the name of the camera.
Server	Shows the management server.
	Shows the recording server for the
Recording Server	camera.
	Shows the total uptime for the camera in
	hours for the selected duration of the
Total uptime (In Hours)	report.
	Shows the percentage uptime for the
	camera for the selected duration of the
Total uptime (In Percent)	report.
Disconnection Count	Shows how many numbers of times the
	camera got disconnected for the selected
	duration of the report.
Disconnection Daily Avg	Shows the average disconnection time in
(In Hours)	hours per day for the camera.
DisconnectionWeekly Avg	Shows the average disconnection time in
(In Hours)	hours per week for the camera.
Disconnection Monthly	Shows the average disconnection time in
Avg (In Hours)	hours per month for the camera.
Last Password Change	Shows the last password change for the
Date	camera.
Age of password (In Days)	Shows the age of the password.
	Shows the oldest date of available
Oldest Date of recording	recording.

- Once the parameters are selected, the sort dropdowns will show up below. From the dropdown, select the column to sort the table from the *Sort By* dropdown and select whether to sort in ascending or descending order from the *Sort Order* dropdown.
- The Filter option lets the user filter the camera list by Camera Name, Server, Recording Server, Total Uptime In Hours, Total Uptime In Percent, Disconnection Count, etc. Type the filter input in the required fields and click on Apply Filter.

Scheduling

• To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.

- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - *Minutes:* Generate reports for every selected minute(s).
 - Hourly: Choose to generate the report for every selected hour(s).
 - Daily: Generate a report for either every selected number of days or every weekday at the selected time.
 - Weekly: Check the days of the week and the time when the report is to be generated from the *Start Time* dropdown.
 - Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.
 - Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Emailing Reports

- To enable mailing of reports, toggle the Send Email toggle on.
 - To send to custom recipients, select *Email* from in the *Email* field, and enter the desired email address. Click the + button, and repeat until all email addresses are added. Click the trash icon to remove an added email address.
 - Toggle *Ignore Empty Data* if the report is not to be mailed in case there is no data in the report.
 - Click Save to save the configuration or Cancel to discard without saving changes.

Save Reports

• To save a report to the preconfigured location, toggle *Save Report* on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

• The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *PDF* toggle on, to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

Generating and Saving Report Configuration

- To save the configuration and/or generate the report, click the Update button.
- To exit without saving changes, click the Cancel button.

User Login Analytics

The User Login Analytics Report offers detailed insights into user login activities within XProtect, including the number of logins, average login duration, maximum and minimum login times, days without login activity, date of last password change, and days since the password was last updated. Analytics report uses the XProtect audits log.

CREATE OR SCHEDULE ANALYTIC	35			х			
Analytics Configuration							
Selected Folder	Reports1						
Analytics Type		Analytics No					
Analytics Name		Analytics Template		~			
Daterange Picker	曽 Today 👻	Datetime in Days	-				
Access							
User Login Analytics Column Configuration							
Select Parameters							
Scheduling							
Schedule	•						
Email/Save Analytics							
Send Email	Email Recipient	Ignore Empty Data	Save Analytics				
Export As							
Pdf	•	Excel	•				
	•						
				X Cancel 🔒 Generate			

Create/Schedule User Login Analytics

Report Configuration

- The *Reporting No* field lets the user add the Report Number if needed.
- The *Report Name* option lets the user configure the report name, which should be unique.
- Select the desired report template from the *Report Template* dropdown, based on which the reports will be generated. User Analytics Report has only one template named *DefaultUserLoginAnalytics*.
- The Daterange Picker lets the user select the duration of time for which the audit logs need to be fetched, based on which the report will be generated. The users can select Today to select Today's records, Yesterday to select Yesterday's records, Last 24 hours to select the records from the last 24 hours, This Month to select the current month's records, and Last 30 days or Last 7 days to select the records for the past 30 days or the past 7 days, respectively. To choose any custom date range, select the Custom Range option. Select the start date/time in the first calendar by clicking only once on date and only once

on time and then the end date by clicking only once on date and only once on time in the calendar box.

• If records are to be selected dynamically to the current date, toggle on Datetime in days and fill in the From and To ranges where days are relative to the present day.



 If you need to consider records from a specific range of days, for example, from the last days until today, follow these instructions:
 From days: Enter 7.

To days: Enter 0.

- Make sure to also specify the respective start and end times.
- The Access option allows an administrator to restrict or grant access to reports for non-admin users. To restrict the report to only the user, select *Private* or leave it as *Public* for access to all users. All private reports can be viewed and edited by any user with an administrator role.

User Login Analytics Column Configuration

• The Select Parameters button triggers the Configure User Login Analytics Column popup, where the users can select all the User Login parameters that are required by switching the toggle on. In the Display Name field next to the selected parameters, add the name to be displayed in the report for the selected parameter.

Serial No	Record no.
Username	Shows the name of the user.
	Shows the number of times the user has
	logged in to the system for the selected
No. of Logins	duration of the report.
	Shows the average login time in hours for the
Average Time	selected duration of the report.
	Shows the maximum login time in hours for
Max Time	the selected duration of the report.
	Shows the minimum login time in hours for the
Min Time	selected duration of the report.
	Shows the number of days the user has not
Days Not Logged	logged in for the selected duration of the
In	report.
Password Last	Shows the date and time of password change
Changed	for the user.

- Once the parameters are selected, the sort dropdowns will show up below. From the dropdown, select the column to sort the table from the *Sort By* dropdown and select whether to sort in ascending or descending order from the *Sort Order* dropdown.
- The *Filter* option lets the user filter the records by the given parameters. Enter the desired parameters and click *Apply Filter* and the filter will be applied. Toggle *Case Insensitive* to ignore case sensitivity. Click *Cancel* to close the *Filter Results* without saving the filters.

Scheduling

- To schedule report generation based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Report popup where the user can choose the schedule timing.
 - *Minutes:* Generate reports for every selected minute(s).
 - Hourly: Choose to generate the report for every selected hour(s).
 - Daily: Generate a report for either every selected number of days or every weekday at the selected time.
 - Weekly: Check the days of the week and the time when the report is to be generated from the *Start Time* dropdown.
 - Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.
 - Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select

the time when the report is to be generated in the *Start Time* dropdown.

Emailing Reports

- To enable mailing of reports, toggle the Send Email toggle on.
 - To send to custom recipients, select *Email* from in the *Email* field, and enter the desired email address. Click the + button, and repeat until all email addresses are added. Click the trash icon to remove an added email address.
 - Toggle *Ignore Empty Data* if the report is not to be mailed in case there is no data in the report.
 - Click Save to save the configuration or Cancel to discard without saving changes.

Save Reports

• To save a report to the preconfigured location, toggle Save Report on and select the required format (CSV, PDF, Excel) in Export as Section. The Default location is C:\Program Files\Reports.

Export As

• The user can select the format in which the report will be saved to disk or emailed. To export as PDF, toggle the *PDF* toggle on, to export as Excel, toggle *Excel* on and to export as CSV, toggle CSV on.

Generating and Saving Report Configuration

- To save the configuration and/or generate the report, click the Update button.
- To exit without saving changes, click the Cancel button.

View Analytics

The View Analytics page lists all the runs of analytics reports created/scheduled by the user. The table shows information such as Name (Job Name), Start DateTime, End DateTime, Created By (User who created the job), Status (Job Status), and Actions.

0	Analytics View Analytics				DES	KTOP-ST2QKOF
€	苗 Today 👻		Analytics Name My		Analytics Statu	is All 👻
•	Show 10 v Entries					
5	Name	Start DateTime	End DateTime	Created By	Status	Actions
Ē	User Analytics Report	05-Aug-2024 15:05:57	05-Aug-2024 15:05:58	DESKTOP-ST2QKOF\		
	Camera Analytics Report	05-Aug-2024 11:43:43	05-Aug-2024 11:43:45	DESKTOP-ST2QKOF\		
	Camera Analytics Report	05-Aug-2024 11:35:39	05-Aug-2024 11:35:43	DESKTOP-ST2QKOF\		
	Camera Analytics Report	05-Aug-2024 11:34:57	05-Aug-2024 11:35:15	DESKTOP-ST2QKOF\		
-	User Analytics Report	05-Aug-2024 10:46:02	05-Aug-2024 10:46:08	DESKTOP-ST2QKOF\		
	Camera Analytics Report	05-Aug-2024 10:45:32	05-Aug-2024 10:45:52	DESKTOP-ST2QKOF\		
.	Showing 1 to 6 of 6 Entries					
*						
8						
						Version 5.0



Filtering View Analytics Table

- Click the date range picker dropdown at the top corner of the table area to expand and select the date for which the job records are to be shown. The users can select *Today* to select Today's records, *Yesterday* for selecting Yesterday's records, *Last 24 hours* to select the records from the last 24 hours, *This Month* to select the current month's records, and *Last 30 days* or *Last 7 days* to select the records for the past 30 days or the past 7 days, respectively. To choose any custom date range, select the *Custom Range* option and select the start date/time in the first and the end date/time in the second.
- The Analytics Name dropdown field has two categories, My Reports, and Public Reports. Under My Reports, all the reports created by the user are listed, and under Public Reports, all the reports created by the other users that are of public access type are listed. The list can be filtered by entering the partial/complete name in the dropdown text field.
- The Analytics Status dropdown lets the user filter the table by the status of the analytics report, where Success is completed, Running is a report that is in progress, Queued is a report that's queued and will start as the other report running ahead is

completed, *Cancelled* is a user cancelled report, and *Incomplete* is a report that has aborted without completion.

• The refresh button next to the date range picker dropdown refreshes the table and shows the updated report status.

Analytics Actions

• In the action column of each record, the eye icon opens the report in pdf format, the table views the report details within XProtect, the cross icon stops the generation of the report if it's running, and the trash icon deletes the job record.

Widgets for O-Insights VMS Plugin

O-Insights Reporting enhances data visualization and insights by displaying data generated by the Reporting in O-Insights VMS Plugin. This integration allows users to access and interpret complex data through a user-friendly interface, providing a clear and comprehensive view of operations.

Currently, the following widgets are supported in the O-Insights Reporting for VMS Workspace.

Reports Widget

Reports Widgets are designed to show the count of report data for the report, offering a detailed view when drilled down. Each widget is designed to reflect the counts from its associated report on the interface. While all widgets share a common configuration, the primary distinction is that each widget allows selection and display for only its respective report.

Available widgets include those for the Camera Report, Alarm Report, Audit Report, Storage Report, Camera Health Report, Recording Server Health Report, Disabled Devices Report, Devices Report, Events Report, Access Control Events Report, Evidence Report, LPR Report, Recording Server Report, User Report, Camera Recording Report, and Bookmark Report.

For example, to display data related to the Camera Report, select the camera widget and configure it to show the specific information you want to visualize about camera reports.

Camera Analytics Widget

The Camera Analytics Report widget displays data from the camera analytics report. It is designed to show the count of report data for the report and enables users to drill down into the count to view detailed information. This feature enhances user understanding by providing specific insights directly related to camera analytics.

User Login Analytics Widget

The User Login Analytics Report Widget displays data from the User Analytics report. It is designed to show the count of report data for the report and allows users to drill down on this count to access detailed information. This functionality enhances the visibility of user login patterns and behaviours within the report.

User Login Analytics Chart Widget

The User Login Analytics chart offers a visual representation, specifically a bar chart, of the frequency of user logins to the smart client, using data from the User Analytics report. Users can hover over each bar to view the login counts for individual users, providing an interactive way to quickly assess user activity.

Camera Uptime Chart Widget

The Camera Uptime Chart offers a visual representation of the historical operational durations of cameras, providing a snapshot of their reliability and performance over time. This chart helps quickly assess how consistently cameras have been functioning.

Camera Disconnection Chart Widget

The Camera Disconnection Chart provides a visual representation of the frequency of disconnections for each camera over time, offering a clear graphical overview of connectivity issues. Users can hover over the chart to view the number of disconnections for each camera.

Report Data List

The Report Data List widget is designed to display count information from multiple reports, providing a consolidated view of key data across various reports.

Ranking Chart Widget

The Ranking Chart displays ranking data based on the selected report, tailored to the type of report and the specific Ranking column chosen. Users can customize the chart by selecting the Report Type and the specific report, specifying the property for grouping (Ranking Column) within the widget, and selecting the ranking operation. To ensure compatibility, users must create a report that aligns with the chart's specifications.

Report Analytics Widget

The Report Analytics Widget is designed to analyse and display report data based on user configurations. This widget allows for operations such as counting, and determining the minimum, maximum, average, and sum of a specific column within the selected report, effectively visualizing the data for easy interpretation.

User Jobs

The User Job section lets the users create and view jobs.

Click on above the tree after selecting the desired folder to create a new user job. Only one user is allowed to create/edit/delete User Jobs and the Access Type is always set to public. Other users can only view the instances of the job.

Note: In Query Engine, you are limited to creating just one user job of the same type. Having multiple user jobs of the same type is not allowed, as it prevents the concurrent execution of multiple instances of the same user job.

0	User Jobs ▶ Create							
ø	6 H / S	User Jobs						
٥	- Jobs				User		Job Type	
=								
R		Show 10	 Entries 					Search
		No.	Name	Creation Date	☐ Created By	Access Type	Scheduler	Actions
Q			Import Camera Tags	05-Aug-2024 17:20:42	DESKTOP-ST2QKOF\ajosh	public	Not Scheduled	
в			Data Collector	05-Aug-2024 17:14:40	DESKTOP-ST2QKOF\ajosh	public	Scheduled	
٠			Install Date Picker	05-Aug-2024 17:14:16	DESKTOP-ST2QKOF\ajosh	public	Not Scheduled	
E.			Cache Update	05-Aug-2024 17:13:03	DESKTOP-ST2QKOF\ajosh	public	Scheduled	
			Purge Reports older than 30 runs	05-Aug-2024 17:11:57	DESKTOP-ST2QKOF\ajosh	public	Scheduled	

Create User Job

Purge Reports

The *Purge Reports* job lets the users purge reports periodically based on the number of reports generated or the age of reports by each report type. **Purging the reports is permanent and purged reports cannot be recovered.**

Create Or Schedule Job				×
Job Configuration				
Selected Folder	Jobs			
Јор Туре		Job Number		
Job Name		Access		
Purge Report Configuration				
Configure				
Scheduling				
Schedule	•	a Scheduled	00:00 every day	
				× Cancel 🖬 Update

- From the dropdown, choose the *Purge* option to create a purge job.
- Fill in the Job No. and Job Name fields as desired.
- The access option is left as public by default and only one user is allowed to create/edit/delete Purge Job. Other users will only be able to view it.

Configuring Purge

• To configure the purge settings, click the *Configure* button. The *Purge Jobs* popup will show up.

Purge Jobs		×
Job Type	× All	
Criteria	Runs	
Job Count Exceeding	30	
		X Cancel

• Job type lets the user choose the report types that are to be considered for purging. Users can select All or can do a multi-select of different report types.

Purge Jobs			×
Job Type	× Access Control Events × Alarms × Audit		
Criteria	All		
Citteria	Access Control Events	U	
Job Count Exceeding	Alarms		
	Audit		
	Bookmark	ancel	Save

• *Criteria* lets the user specify the criteria based on which the purging is to be carried out:

• *Runs:* Purge reports based on many runs of the reports.

Purge Jobs				×
Job Type	* Access Control Events	× Alarms × Audit		
Criteria	Runs		X X Cancel	
Job Count Exceeding	30		¥ × Cancel Save	
			X Cancel	Save

 Duration: Purge reports exceeding specified days/Weeks/Months/Years.

Purge Jobs					×	
Job Type	× Access Control Events ×	Alarm	s × Audit			
Criteria	Date Time					
Jobs Older Than			Days	~		
			Weeks Months Years	đ	ancel 🕞 Save	2

• To save the configurations, click *Save* or click *Cancel* to discard.

Scheduling

- To schedule a purge job based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Job popup where the user can choose the schedule timing.
 - Minutes: Generate reports for every selected minute(s).
 - Hourly: Choose to generate the report for every selected hour(s).
 - Daily: Generate reports for either every selected number of days or every weekday at the selected time.

- Weekly: Check the days of the week and the time when the report is to be generated from the *Start Time* dropdown.
- Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.
- Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Saving Purge Job Configuration

- To save the configuration, click the Generate/Update button.
- To exit without saving changes, click the Cancel button.

Cache Update

The Cache Update job fetches the properties of the Camera, Recording Server, Microphone, and Speakers, and saves them in the Cache. The data that is Cached is used in the Camera Details-Inventory, Camera/Server status by Tags Widget as well as in reporting.

- To ensure that the changes made to the camera / recording server/ microphone/ speaker properties in the management server are reflected in Query Engine, the User needs to initiate a cache update job.
- To maintain smooth and proper functionality, it is advisable to run the cache update job at least once a day/once a week depending on the frequency of changes made at the management server end.

Note: To reflect the changes done in XProtect configuration, the dashboard smart client needs to be restarted.

Cache Update

• From the dropdown, choose the Cache Update option to create a cache update.

Create Or Schedule Job					×
Job Configuration					
Selected Folder	Jobs				
Job Type	Cache Update	Job Number	102		
Job Name	Cache Update	Access	Public		
Scheduling					
Schedule		Scheduled	12:00 every day		
				X Cancel	D Update

- Fill in the Job No. and Job Name fields as desired.
- The access option is left as public by default and only one user is allowed to create/edit/delete cache Job. Other users will only be able to view it.

Scheduling

- To schedule a cache job based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Job popup where the user can choose the schedule timing.
 - *Minutes:* Generate reports for every selected minute(s).
 - Hourly: Choose to generate the report for every selected hour(s).
 - Daily: Generate reports for either every selected number of days or every weekday at the selected time.
 - Weekly: Check the days of the week and the time when the report is to be generated from the *Start Time* dropdown.
 - Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.
 - Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Saving Cache Job Configuration

- To save the configuration, click the Generate/Update button.
- To exit without saving changes, click the *Cancel* button.

Camera Installed Date Picker Job

The Camera Installed Date Picker job enables users to retrieve the installation dates of new cameras added to the recording server, and automatically populate these dates into the Installation Date field within the O-Insights custom properties tab in the Management Client. The installation date is extracted from the XProtect Logs. To ensure accuracy, this job should be executed immediately after cameras are added to the recording server, and before any modifications are made to the default hardware or device names (e.g., added as Hardware Device 1, Hardware Device 2, etc.).

Once the Camera Installed Date Picker job is executed, it's necessary to run the Cache Update Job. This ensures that the Query Engine recognizes and incorporates the changes made.

Create Or Schedule Job					×
Job Configuration					
Selected Folder	Jobs				
Јор Туре		Jo	lob Number		
Job Name		Ad	Access		~
Camera Installed Date Picker Conf	iguration				
Scheduling					
Schedule	•				
				× Cancel	B Generate

Camera Installed Date Picker

- From the dropdown, choose the Camera Installed Date Picker.
- Fill in the Job No. and Job Name fields as desired.
- The access option is left as public by default and only one user is allowed to create/edit/delete camera installed date picker Job. Other users will only be able to view it.

Configuring Camera Installed Date Picker Job

• To configure the camera-installed date picker, click the Configure button. The Configure Camera Installed Date Picker Job popup will show up.

Create Or Schec	Camera Installed Date Picker Job Configuration					×
Job Configuratic	Consider Audit logs for		Days			
Selected Folder				× Cancel	Save	
Јор Туре						
Job Name	Install Date Picker		Access			
Camera Installed I	Date Picker Configuration					
Configure 🗘						
Scheduling						
Schedule						
					X Cancel	Generate

- In the Consider Audit logs for x Days field, add the number of days for which the log needs to be checked.
- To save the configurations, click Save or click Cancel to discard.

Scheduling

- To schedule a camera-installed date picker job based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Job popup where the user can choose the schedule timing.
 - Minutes: Generate reports for every selected minute(s).
 - Hourly: Choose to generate the report for every selected hour(s).
 - Daily: Generate reports for either every selected number of days or every weekday at the selected time.
 - Weekly: Check the days of the week and the time when the report is to be generated from the Start Time dropdown.
 - Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

 Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Saving Camera Installed Date Picker Job Configuration

- To save the configuration, click the Generate/Update button.
- To exit without saving changes, click the Cancel button.

Auto-Populating Warranty End Date

The warranty end date for each camera can be automatically populated by specifying the warranty period for each camera model in the *ModelWarrantyDetails.json* file, located at:

C:\Program Files\O-Insights Query Engine\Config\ModelWarrantyDetails.json

For example, the configuration for two different camera models with different warranty periods will be detailed in this file. Below is the screenshot depicting the JSON configuration for these models:



This method ensures that each camera's warranty end date is calculated and updated based on the specific warranty period provided for its model in the configuration file.

Data Collector Job

The Data Collector Job is responsible for daily collection of data on camera storage size and camera health according to a set schedule. Here's how the collected data is utilized:

- **Storage Data**: Utilized by Genie to display historical information related to camera storage, helping in trend analysis and storage management.
- Camera Health Information: Used in reporting to identify instances where a camera remains offline for an extended period without triggering any *Not Responding* alarms in the database for the specified report duration.

Create Or Schedule Job				×
Job Configuration				
Selected Folder	Jobs			
Јор Туре		Job Number		
Job Name		Access		
Scheduling				
Schedule	•	 	12:00 every day	

Data Collector Job

- From the dropdown, choose the Data Collector option.
- Fill in the Job No. and Job Name fields as desired.
- The access option is left as public by default and only one user is allowed to create/edit/delete data collector Job. Other users will only be able to view it.

Scheduling

- The job should be scheduled to run once daily, ideally at 00:01 hours. This timing ensures that each day's data is collected promptly after midnight, providing a consistent and accurate daily snapshot.
- It is important to note that if the job is run multiple times in a single day, subsequent runs will overwrite the data captured in the previous run for that day. Therefore, scheduling it to run only once daily is crucial to maintain data accuracy and avoid redundancy.
- To schedule a data collector job based on a custom schedule, toggle the *Schedule* toggle on.

- The Schedule button triggers the Schedule Job popup where the user can choose the schedule timing.
 - Minutes: Generate reports for every selected minute(s).
 - Hourly: Choose to generate the report for every selected hour(s).
 - Daily: Generate reports for either every selected number of days or every weekday at the selected time.
 - Weekly: Check the days of the week and the time when the report is to be generated from the *Start Time* dropdown.
 - Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.
 - Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Saving Data Collector Job

- To save the configuration, click the Generate/Update button.
- To exit without saving changes, click the Cancel button.

Import Tags Job

The Import Tags Job can be utilized to efficiently tag multiple cameras using a CSV file. This method helps the process of applying tags across numerous cameras simultaneously, enhancing the management and categorization within the system.

Create Or Schedule Jo	b				×
Job Configuration					
Selected Folder	Jobs				
Job Type	Import Tags	Job Number	105		
Job Name	Import Camera Tags	Access	Public		
Import Tags Configura	tion				
Configure 🗘					
Scheduling					
Schedule		🖀 Schedule			
				× Cancel	B Update

Import Tags Job

- From the dropdown, choose the Import Tags option.
- Fill in the Job No. and Job Name fields as desired.
- The access option is left as public by default and only one user is allowed to create/edit/delete import tag Job. Other users will only be able to view it.
- Click on configure, provide the CSV file location and save.
- Click Generate to import the data from CSV into XProtect

Bulk tagging of cameras

The below-mentioned steps need to be done for bulk tagging of cameras:

1. Create a Camera detail report with Name, Address, Location, Type, Install Date, and Warranty End Date. Name and Address columns are mandatory.

Data View						+ Action Report	ж
Show 10 v entrie						Search:	
Serial No 🕸	Name	1 Address II	Location	Туре 🛙	Installed Date	Warranty End Date	11
1	Office4	http://192.168.0.222/	Chennai	Indoor	11/11/2022	11/11/2024	
2	Office2	http://192.168.0.200/	Goa	Outdoor	11/11/2022	11/11/2024	

- 2. In the report configuration toggle, both save the report and CSV options and click on *Generate*.
- **3.** The default location for CSV file is C:\Program Files\Reports\.
- 4. Ensure the folder and file has right permissions for Query Engine Logon user.

General Securi Object name: Group or user n Ajosh (DE: Administrat Users (DE	ty Details Tag Repr ames: SKTOP-ST2 tors (DESK SKTOP-ST	Previous Ve ort 06.08.2024 2QKOF\Ajosh) TOP-ST2QKO 2QKOF\Users	rsions 4 12.13.2217) FVAdministra	722926602.cs tors)	v
Se TrustedIns	taller		,		,
<				>	
To change per	missions, clie	ck Edit.		Edit	
Permissions for	Users		Allow	Deny	
Full control			~		
Modify			\checkmark		
Read & exec	ute		\checkmark		
Read			~		
Write			~		
Special perm	issions				
For special perm click Advanced	nissions or a I.	advanced sett	ings,	Advanced	

- 5. Right-click on the file and open it with Excel.
- 6. Assign the cameras with the appropriate tags in the CSV file and save.
- 7. Use the *Import Tags Job* to import the file, ensuring that all tags are assigned at once. This significantly speeds up the tagging process.
- 8. Create Import Tag job from User jobs by choosing Import Tags from the drop-down.

Create Or Schedule Jo	b					×
Job Configuration						
Selected Folder	Jobs					
Job Type			Job Number			
Job Name			Access			~
Import Tags Configuration						
Configure						
Scheduling						
Schedule						
						Dupdate

9. Fill in the Job No. and Job Name fields as desired.
- 10. The access option is public by default and only one user is allowed to create/edit/delete import tag Job. Other users will only be able to view it.
- **11.** Now click on *Configure* and enter the file location in *Input File*.
- 12. Keep the Row Start and Row End unchanged to update all rows and click on Save.

Import Tags			×
Input File	C:\Program Files\Reports\Ca		
Row Start			
Row End			
		× Cancel	Cave Save

13. On the Import Tag Job (Create or Schedule job) click Generate.14. Now click on the Eye icon to see the report status.

User Jobs							
			User		Job Type		
Show 10 v Entries						Search	
No. Name	Creation Date	Created By		Access Type	Scheduler	1 Actions	
105 Import Camera Tags	05-Aug-2024 17:20:42	DESKTOP-ST2Q	OF\	public	Not Scheduled	o / c 🔹	

15. Below pop up will open.

Job List					×
Show 10 v Entries					Search
Name	Start DateTime	End DateTime	Created By	Status	Actions
Import Camera Tags	06-Aug-2024 12:14:51	06-Aug-2024 12:14:51	DESKTOP-ST2QKOF\		
Showing 1 to 1 of 1 Entries					

- 16. The status of the job will be shown as *Running* if the job is in progress and will show as *Success* once it's completed.
- 17. The user can click on the \blacksquare and see the details below:

Data View	
Show 10 V Entries	
Timestamp	Status
06/08/2024 12:14	Dynamic Tags of 10 cameras updated successfully
Showing 1 to 1 of 1 Entries	

18. To verify the tagging, the user can log in to the management client and check the O-Insights Custom Properties tab.

Properties Custom Camera Propert	ies								
Associated Camera: Location	Meeting Room KHADKA				+				
Туре	INDOOR				•	10			
Installed Date	2024-12-10		YYYYY-MI	M-DD					
Warranty End Date	2026-12-10		YYYY-MI	N-DD					
🕦 Info 🆓 Settings 📗	🛂 Streams 🥚	Record	🖈 Motion	S Fisheye Lens	🖳 Client	Privacy ma	asking 💽 C	-Insights Cust	om Properties

- 19. The user can also do a cache update job and then run the camera tag report for verification.
- When generating the CSV report, ensure that the tag you intend to use is initially added to at least one camera via the *Custom Properties* plugin. This setup is necessary to establish the tag within the system.
- To successfully import the CSV file using the *Import Tags Job*, store the CSV file on the same system where the Query Engine is installed. This placement ensures that the Query Engine can access and process the file correctly.

Scheduling

- To schedule an import tags job based on a custom schedule, toggle the *Schedule* toggle on.
- The Schedule button triggers the Schedule Job popup where the user can choose the schedule timing.
 - Minutes: Generate reports for every selected minute(s).
 - Hourly: Choose to generate the report for every selected hour(s).
 - Daily: Generate reports for either every selected number of days or every weekday at the selected time.
 - Weekly: Check the days of the week and the time when the report is to be generated from the Start Time dropdown.
 - Monthly: For generating a report on a specific day of every nth month, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

 Yearly: For generating a report on a specific day of every nth year, use the Day radio button. For selecting a specific weekday of every month, use the nth day of every month(s) radio button. Select the time when the report is to be generated in the Start Time dropdown.

Saving Import Tags Job

- To save the configuration, click the Generate/Update button.
- To exit without saving changes, click the Cancel button.

View User Job

The View User Job page lists all the runs of the user jobs that are created by the user. The table shows information such as Name (Job Name), Start DateTime, End DateTime, Created By (User who created the job), Status (Job Status), and Actions.

For any other user who wants to see the jobs, you need to click on the drop-down *job* name and then select the *type* of job under the public report.

0	Jobs ≱ View Job						DESKTOP-ST2QKOF\
0							
۰	🛗 Today 👻		Job Name			Job Status	
=	Show 10 v Entries						
5	Name	Start DateTime	End DateTime		Created By	Status	Actions
₩	Import Camera Tags	06-Aug-2024 15:53:54	06-Aug-2024 15:53	:56	DESKTOP-ST2QKOF ¹		
۹	Cache Update	06-Aug-2024 12:14:59	06-Aug-2024 12:15	05	DESKTOP-ST2QKOF		
4	Import Camera Tags	06-Aug-2024 12:14:51	06-Aug-2024 12:14		DESKTOP-ST2QKOF		
	Cache Update	06-Aug-2024 12:10:38	06-Aug-2024 12:10		DESKTOP-ST2QKOF ¹		
E.	Cache Update	06-Aug-2024 12:07:16	06-Aug-2024 12:07		DESKTOP-ST2QKOF		
*	Cache Update	06-Aug-2024 12:00:00	06-Aug-2024 12:00	k03	DESKTOP-ST2QKOF ¹		
٠	Data Collector	06-Aug-2024 12:00:00	06-Aug-2024 12:00	x08	DESKTOP-ST2QKOF ¹		
8	Purge Reports older than 30 runs	06-Aug-2024 10:00:40	06-Aug-2024 10:00	2:47	DESKTOP-ST2QKOF		
	Showing 1 to 8 of 8 Entries						Previous 1 Next

Filtering View User Job Table

- Click the date range picker dropdown at the top corner of the table area to expand and select the date for which the job records are to be shown. The users can select *Today* to select Today's records, *Yesterday* to select Yesterday's records, *Last 24 hours* to select the records from the last 24 hours, *This Month* to select the current month's records, and *Last 30 days* or *Last 7 days* to select the records for the past 30 days or the past 7 days, respectively. To choose any custom date range, select the *Custom Range* option and select the start date/time in the first and the end date/time in the second.
- The Job Name dropdown field has two categories, My Jobs, and Public Jobs. Under My Jobs, all the jobs created by the user are nested, and under Public Jobs, all the jobs created by the other users that are of public access type are listed. The list can be filtered by entering the partial/complete job name in the dropdown text field.
- The Report Status dropdown lets the user filter the table by the status of the user job, where Success is completed, Running is a job that is in progress, Queued is a job that is queued and will start as the other jobs running ahead are completed, Cancelled is a user cancelled job, and Incomplete is a job that has aborted without completion.

• The refresh button next to the date range picker dropdown refreshes the table and shows the updated Job Status.

User Job Actions

• In the action column of each record, the table views the job details, the cross icon stops the generation of the job if it is running, and the trash icon deletes the job record.

Audit Trail

The Audit Trail shows a detailed audit trail for each action performed within O-Insights Reporting (Create/Update/Delete). The audit trail can be accessed from the sidebar by selecting Audit Trail.

Third and the set of and chemic					- D X
Views Exports Search	Alarm Manag	ger 🔞 Incidents Command Center	O-Insights Genie	IoT Config Tool O-Insights Slider System Monitor	4:29:23 PM 🚹 🤱 i
Audit Trail Report					DESKTOP-ST2QKOF\;
🐨 🛍 Today 🕶		Operations			
Export	Show 10 v Ent	tries			
Time Operation Targ	Event et Name	Old Value		New Value	User Name Notes
0 64-Mg- UPDATE Repo 2004 162045 B LE LE	rt/Query Camera	[Scope] [desktop-stoject] [fields [][fieldNamd)S (b)][fieldNamd)SigsipyAmd)Namd)SigsipyAmd (fieldNamd)Address)AdsigsipyAmd(Nddress) (fieldNamd)Address)AdsigsipyAmd(Nddres) (fieldNamd)Address)AdsigsipyAmd(Nddres) (fieldNamd)NamdAtsicationAdsigsipyAmd(Nddress) (fieldNamd)NamtalCottak)AdsigsipyAmd(Nddress) (fieldNamd)Namtak) (fieldNamd)Namtak) (fieldNamd)Namtak) (fieldNamd)Namtak) (fieldNamd)Namtak) (fieldNamd)Namtak) (fieldNamd)Namtak) (fieldNamd)Namtak) (fieldNamd)Namtak) (fieldNamd)Namtak) (fieldNamtak) (fieldNamd)Namtak) (fieldNamt	erialNo\\displayName\\Serial ed Date\}, arranty End Date\} J, config: { v:00, todatetime: 08-05-2024 sys:, todays: colime:, ly; J, userParameters: [] }}	[Report Name: Camera Tag Report: Scope: desktop:st2pilor, fields: [//fieldstamakStamikSkatiskytamikamakSkata Nol, // //fieldstamakStamekSkata Nol, // //fieldstamakStamekSkata Noldenski, // //fieldstamakStaksjatyskamakK.V.castarol), //fieldstamakStaksjatyskatamakK.v.castarol), //fieldstamakStaksjatyskatamakK.v.castarol, // //fieldstamakStaksjatyskatamakK.v.castarol, // //fieldstamakStaksjatyskatamakK.v.castarol, // //fieldstamakStaksjatyskatamakK.v.castarol, // //fieldstamakKstamarjerkdtaksi/kalpsykatamakKstarot, ford Datel), //fieldstamakKstarestagAtkStaksjatyskatamakKstarot, gamakstarot, // // fieldstamakKstarestagAtkStaksjatyskatamakKstarot, gamakstarot, // // fieldstamakKstarot, // fiornalistarot, // fiornalistaro, //	DESKTOP- ST3QKOP
	rt/Jobs Import Tags			Report Name: Import Camera Tags	DESKTOP- ST2QKOF\
06-Aug- DELETE Repo 2024 15:06:02 Showing 1 to 10 of 21 Entries	rt/Jobs Import Tags	Report Name: Import Camera Tags			DESKTOP- ST2QKOF\
					Version 5.0

Audit Trail

- Click the date range picker dropdown at the top corner of the table area to expand and select the date for which the audit trail records are to be shown. The users can select Today to select Today's records, Yesterday to select Yesterday's records, Last 24 hours to select the records from the last 24 hours, This Month to select the current month's records, and Last 30 days or Last 7 days to select the records for the past 30 days or the past 7 days, respectively. To choose any custom date range, select the Custom Range option and select the start date/time in the first and the end date/time in the second.
- The Time column lists the timestamp of the audit trail event, Operation lists whether the entry is for Creation/updating/deletion of job/report, Target shows whether the entry is related to reports/jobs/Action Reports, Event Name shows the type of report, Old Value shows the initial name/ details /parameters of the job or reports, New Value shows the current details/parameters, User Name shows the user who acted, and Notes show the notes.
- The Operations dropdown lets the user filter the table by operation (Create/Update/Delete).

• The Audit Trail can be exported to PDF and Excel by clicking the export button. The current records in view will be exported to PDF. To export all, choose *All* from the *Show* x *Entries* dropdown and repeat the same process. This may be a time and resource-consuming process.

Right to Left Script Support

The right-to-left script is currently supported in reports for Arabic and Hebrew languages.

The configuration file for the same is available in:

C:\Program Files\O-Insights Query Engine\QueryEngine.exe.config

To modify, edit the *QueryEngine.exe.config* in the reporting folder in any text editor.

To enable left to right script support, make sure that the value in the <add key="isRightToLeftLanguage" value="true" /> is set to true.

To choose the language,

either let the <add key="regexForRightToLeftLanguage" value="[\p{IsHebrew}]" /> line remain as is for Hebrew

or change it to <add key="regexForRightToLeftLanguage" value="^[\u0020-\u002F]\u0600-\u06FF]\d]+\$"/> for Arabic

```
C:\Program Files\O-Insights Query Engine\QueryEngine.exe.config - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

Image: Compute Section of the sect
```

Multisite Configuration

O-Insights reporting engine can be used to connect to independent sites which are neither federated not interconnected with Multisite connectivity feature. This capability allows for seamless integration and centralized reporting for various sites, enhancing operational oversight and data aggregation.

O-Insights Multisite

1. Access Multisite Configuration

Restart	
Start	
Stop	
Site	
Camera	
Event Serve	er
Running Jo	ıb
Milestone	Protect Configuration
Multisite C	onfiguration
Query Engi	ne Configuration
MongoDB	Credentials
Reset Cred	entials
Test Conne	ction
Logs	
Version: 5.0	0.15.0
E	

- Right-click on the Query Engine System tray tool.
- Select Multisite Configuration from the context menu.

2. View Existing Sites

🖲 Mu	Itisite Configuration						-		×
Searc	ch						Total Sites: 2		+
SI.No	URL	Usemame	Password	Secure Only	Include Child Sites	Authorization	Edit	Delete	
1	http://192.168.0.27	ctsdom\mus	•••••	No	No	AD	Edit	Delete	
2	http://192.168.0.17	ctsdom\mus		No	No	AD	Edit	Delete	
									_
			<	Page 1 of 1	>				

• A table view will be displayed, listing all the sites that have been added.

3. Add a New Site

- Click the ⁺ button located at the top right corner of the table view.
- A new form will launch, prompting you to enter the required credentials for the new site.

4. Enter Site Credentials

Add Site	_	×
Server Creden	tials	
Server	http://192.168.0.17	
User Name	ctsdom\mus	
Password	•••••	
	Show Password	
	AD O Basic O Current	
	Secure only Include child sites	
	Test Connection Add Site	
Starting C Connectior Retry Coun Un for Logi Site Added Server Un Is Logged	nnection Test 1Tmeout is set : 30 t : 1/5 : http://192.168.0.17 :DESKTOP-GP1V585 http://192.168.0.17/ n: True	

- Fill in the necessary credentials in the form. It is supported to use Windows credentials for basic users and logon user types.
- It is recommended to use the credentials of a user with an administrator role to ensure the QUERY ENGINE can fetch all the data.

5. Test Connection

- Use the *Test Connection* button to verify the entered credentials.
- If the test connection is successful, proceed to add the site by clicking the *Add Site* button.

6. Add Child Sites

- There is an *Include Child Site* checkbox available. If checked, this will add the child sites of the site which are added to the configuration.
- 7. Edit or Delete Sites

• Each row in the table view has a *Delete* button to remove the site and an *Edit* button to update the site credentials or details.

Tips for Optimal Configuration

- Use Administrator Credentials: For comprehensive data retrieval, ensure you use the credentials of a user with an administrator role.
- Verify Connections: Always test the connection before adding a new site to ensure the configuration is correct and the site is accessible.
- Regularly Update Credentials: Keep the credentials updated to avoid any disruptions in data aggregation.
- Network Configuration: Ensure that all sites are connected on a stable network.
- Port Configuration: Make sure that port numbers 22331 and 22333 are open for communication between the query engine and the sites.

By following these tips, you can optimize the configuration of the Multisite feature, ensuring efficient and reliable data aggregation across multiple sites.

Configuring Multisite Permissions for Different Roles

In addition to configuring the Multisite feature, it is important to manage permissions and assign site access to different user roles. This ensures that only authorized users can view and manage data from specific sites.

Steps to Configure Multisite Permissions

- 1. Access Reporting Settings
 - Navigate to the Reporting Settings page in the O-Insights plugin.
- 2. Multisite Configuration
 - Within the Reporting Settings page, locate the Multisite Configuration section.

- This section allows the Admin User to assign site access to different user roles.
- 3. Assign Site Access



- Select the user role for which you want to configure site access.
- A list of available sites will be displayed.
- Select the sites that you want to grant access for the selected user role.

4. Save Changes

• Once the site access for the user role is configured, save the changes to apply the permissions.

By following these steps, you can effectively configure multisite permissions and ensure that site access is appropriately managed across different user roles within your organization. This setup helps maintain secure and organized access to critical data and system functionalities.

Note: Camera Statistics by Tags widget, Server Statistics by Tags widget, and all reports except *Audit reports* and *User analytics* supports multisite.

Config File

Understanding Config file

Users can modify various advanced properties by modifying the *QueryEngine.exe.config* file located in the plugin's directory. The configuration file contains several keys, the values of which can be altered to implement changes.

Кеу	Function	Default
<add key="HostingPort"></add>	Port on which the Query Engine will run.	9011
<add key="ReviveJobs"></add>	This is used to rerun incomplete jobs if Query Engine stops and restarts.	True
<add key="EnableSSL"></add>	Whether to enable SSL or not. <i>O</i> to disable and <i>1</i> to enable.	0
<add key="MongoUserName"></add 	MongoDB Username for Reporting/Query Engine.	
<add key="MongoPassword"></add 	MongoDB Password.	
<add key="MongoPort"></add>	Port on which MongoDB will run.	
<add key="VMSServer"></add>	XProtect Management Server URL.	
<add key="VMSLoginType"></add>	The login type of VMS User.	
<add key="ReloadFromCacheUpd ate"></add 	To enable caching in O-Insights, set this as True or set this as False to disable.	True
<add key="GenieSupport"></add>	Set to <i>True</i> if O- Insights Genie is installed.	False
<add key="MaxParallelTaskCount "></add 	Maximum parallel reports/jobs to be run together.	4

Keys and Functions

	Increase count for faster results or lower count for better performance/ resource allocation.	
<add key="CheckAllocatedMemor yIntervalInSeconds"></add 	Intervals at which the Query Engine will check Memory it consumes. If it exceeds the threshold, QUERY ENGINE will stop.	30
<add key="EnableMemoryCappin g"></add 	Cap Memory usage for Query Engine. Leave it as <i>True</i> to cap memory usage.	True
<add key="MaxAllocatedMemoryl nGB"></add 	Currently, a maximum of 40% of available memory can be used by the Query Engine. To override this property, add the required memory cap in GBs.	
<add key="ConnectionTimeout"></add 	Timeout duration for connecting to the XProtect server.	30
<add key="RetryDelay"></add>	The delay for a retry after a failed attempt at establishing a connection with the XProtect Server.	30
<add key="RetryCount"></add>	Maximum number of retries that are to be attempted to establish a connection with the XProtect Server.	10
<add key="FetchServerStatistics" value=""/></add 	To Enable the "System Monitor" set this as <i>True</i> or set this as <i>False</i> to disable.	False
<add key="RefreshServerStatistics</add 	The interval between data fetch for the O-	30

DurationInMinutes" value="" />	Insights System Monitor widget, value is in minutes.	
<add key="ExcludeSitesHostNam e" value="" /></add 	Sites to be excluded from O-Insights System Monitor widget.	
<add key="MaxEmailRequests"></add 	Email sending rate- limit per minute.	30
<add <br="" key="LPREvent">value=""/></add>	LPR Event is the event name for LPR event data.	LPR Event
<add <br="" key="LPRCamera">value=""/></add>	Used to identify the LPR image camera. To be tagged as a marker to the LPR camera.	LPRCamera
<add <br="" key="LPRSecondary">value=" " /></add>	Used to identify the Driver image camera. LPRSecondary should be tagged as a String to the LPR camera.	LPRSecondary
<add <br="" key="ImageQuality">value=""/></add>	Quality Of Images in reports. Integer from 1-100. (Recommended to keep value below 75 as it can impact the performance for large amount of data).	20
<add <br="" key="IdentityProvider">/></add>	The address where the XProtect IDP server is installed.	
<add key="IdentityProviderUrI" /></add 	The URL of the IDP server.	
<add key="APIGateway"></add>	The address where the XProtect API server is installed.	
<add key="APIGatewayUrl"/></add 	The URL of the API server.	
<add key="ResultsPerPage"/></add 	Specifies default pagination size for all the XProtect REST API.	100

<add key="IncludeChildSites" /></add 	This configuration key dictates whether child sites in a federated architecture are automatically included in queries processed by the QUERY ENGINE. If set to "False," only the parent site's data is considered. The users can then add child sites through the <i>Multisite</i> configuration.	True
<add key="LogoutAfterInactivityD urationInMinutes" /></add 	The duration of inactivity (in minutes) after which the user is automatically logged out of the O- Insights web plugin.	15
<add key="Origins"></add>	If you want to set up CORS (Cross-origin resource sharing) then put allowed domains here. * means all origins allowed. file:// allowed by default. This is used by O- Insights Web Client.	*

Federated Architecture Support

Following features in O-Insights will NOT be available for Child Sites data when Smart Client is connected to the master site.

Workspace

Feature	Remarks
Live Alarms	Only the Alarms of Master site will be shown.
Camera Details Health View	In the camera details health view, health status of camera from child sites will not be available. To fetch the camera health of child sites, please use the <i>camera health report</i> in reporting section.
Widget Filters for Alarms and Event Names	O-Insights will only pull Alarms and Event names from the Master Site.
Event List and Trend Widget	Only shows data from the Master Site.

Reporting

Feature	Remarks
User Report	Role details for users of child site won't be available.

Analytics

Feature	Remarks
User Analytics	Certain features of user analytics report will not work for child site.

* All the results are based on XProtect version 2024 R1 and O-Insights 5.0

Interconnect Architecture Support

The following features in O-Insights will **NOT** be available for remote site data when the Smart Client is connected to the master site:

All recording server and storage related information will NOT be available for remote sites.

The dashboard and reporting can fetch data for remote sites only when the sites can communicate to the master

Workspace

Feature	Remarks
Live Alarms	Will show data from Master Site
Camera Widgets	For filters applicable to recording servers only that of master site will be displayed
All recording Server View's and Widgets	Will show data from Master Site
Widget Filters for Alarms and Event Names	Alarms and Event from the Master Site only.
Event List and Trend Widget	Will show data from Master Site
User count	Will show data from Master Site
License Widget	Will show data from Master Site

Reporting

Feature	Remarks
Alarm Report	Alarm Report will be fetched only for Master Site by default . If alarms from child are sent to Master site using XProtect rule engine, Alarm report will include data for child Sites also
Audit Report	Will show data from Master Site
Evidence Lock Report	Will show data from Master Site
Bookmark Report	Will show data from Master Site
Event Report	Will show data from Master Site
Camera Health Report	Health Report for cameras of child site will only work if not responding alarms

	are created for All cameras in Master site.
Camera Recording report	Camera Recording report will have recording details of child site camera only if its being recorded on Master site
Recording Server Report	Will show data from Master Site
Recording Server Health report	Will show data from Master Site
Storage Report	Will show data from Master Site
User Report	Will show data from Master Site

Analytics

Feature	Remarks
User Analytics Report	Will show data from Master Site

* All the results are based on XProtect version 2024 R1 and O-Insights 5.0

Multisite Support

Following features in O-Insights will NOT be available for other Sites data when Smart Client and QE is connected to the master site.

Workspace

Feature	Remarks
	All widgets, except for Camera Status by
	Tags, Recording Server Status by Tags,
	Microphones Status by Tags, and Speakers
	Status by Tags, will not include added sites
Widgets	data.
	Only the Alarms of the Master Site will be
Live Alarms	shown.
	In the camera details health view, health
	status of camera from child sites will not be
	available. To fetch the camera health of child
Camera Details	sites, please use the camera health report in
Health Views	reporting section.
Widget Filters for	
Alarms and Event	O-Insights will only pull Alarms and Event
Names	names from the Master Site.
Event List and Trend	
Widget	Only shows data from the Master Site.

Reporting

Feature	Remarks
User Report	Role details for users of child site won't be available

Analytics

Feature	Remarks
User Analytics	Certain features of user analytics report will not work for child site.

* All the results are based on XProtect version 2024 R1 and O-Insights 5.0

Troubleshooting

1. How can you restrict access for reporting users?

Configurations in the reporting settings tab determines user access. It is essential to note that user visibility is based on these settings; however, all data is pulled from QUERY ENGINE, with reports presented through the user interface.

2. How many reporting engines are needed?

One reporting engine per XProtect installation suffices, as all Smart Clients communicate with this central reporting engine.

3. What access privileges does QUERY ENGINE receive in XProtect?

QUERY ENGINE operates with access privileges according to the configured account, running either as a Windows user or the XProtect basic user based on the established settings.