

O-Insights™ Command Center-1.0 Installation Guide

Contents

Pre-Requisites	3
Minimum Server Requirements	3
Where to Install	4
Setup	5
O-Insights Query Engine5	
Command Center Service10	
Enable SSL Encryption for Command Center	14
Using an Existing Certificate14	
Checking/ Verifying SSL Certificate16	
Command Center Plugin Installation	17

Pre-Requisites

- XProtect 2023 R2, or later.
- .Net Framework v 4.7.2 or later.
- Microsoft Visual C++ Redistributable 2019 Update 9 (Ver:14.27.29903) or later
- O-Insights Query Engine v 5.0
- Following ports to be opened: 9011, 9026, 9027, 9028

Port Number	Service	Source	Destination
9011	O-Insights Query engine service	O-Insights Command Center Service, XProtect Smart Clients running O-Insights Command Center	Server running O-Insights Query Engine
9026,9027,9028	O-Insights Command Center Service	XProtect Smart Clients running O-Insights Command Center	Server running Command Center

Minimum Server Requirements

СРИ	Quad-Core CPU with Hyper-Threading or better, 2.5 GHz or higher
RAM	8GB, 16GB or more for large systems
Network	Ethernet 100 Mbit or better
Hard Disk	8 GB or more free

Where to Install

Application	Environment
O-Insights Query Engine Setup.exe	XProtect Management server or server that can connect to the Management Server.
O-Insights Command Center Service Setup.exe	XProtect Management server or server that can connect to the Management Server.
O-Insights Command Center Plugins.exe	XProtect Smart Client, XProtect Event Server

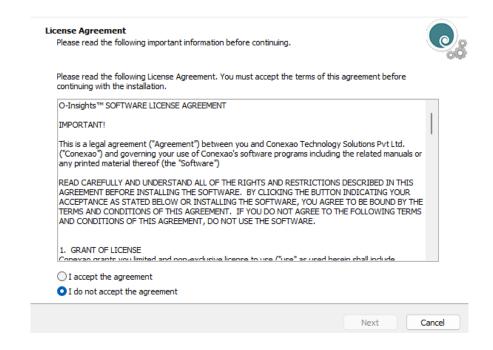
Setup

O-Insights Query Engine

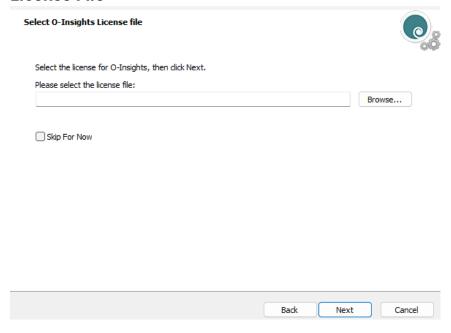
O-Insights™ Query Engine is a powerful reporting engine designed to work natively with XProtect, enabling automated report generation. It is recommended to install it on the XProtect Management Server. Follow the steps below to install and configure the Query Engine.

1. Start the Installation

Open the setup file. After reviewing the License Agreement, click **Accept** and then **Next** to proceed.



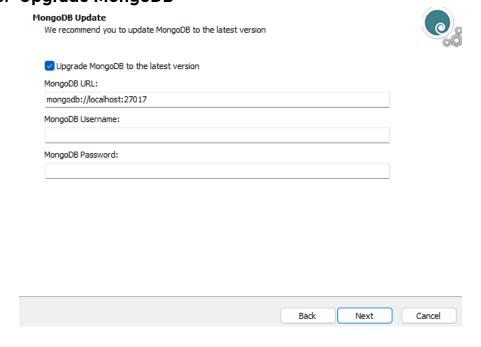
2. License File



Locate the license file by browsing the designated path or skip this step if the license file is already present (e.g., in an upgrade scenario). Alternatively, you can manually copy the license file into the License folder and then click **Next**.

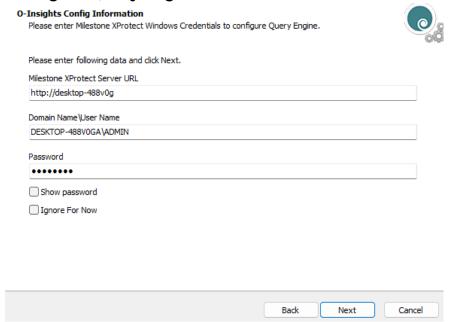
Note: The license file can be found in the following directory: 'C:\Program Files\O-Insights Query Engine\License'.

3. Upgrade MongoDB



If upgrading from version 4.8 to 5.0, you will be prompted to update MongoDB to the latest version. If you choose to proceed, check the corresponding box and provide the MongoDB username and password. This will migrate all databases to the latest version (7.0.12.0) upon successful installation.

4. Configure Query Engine

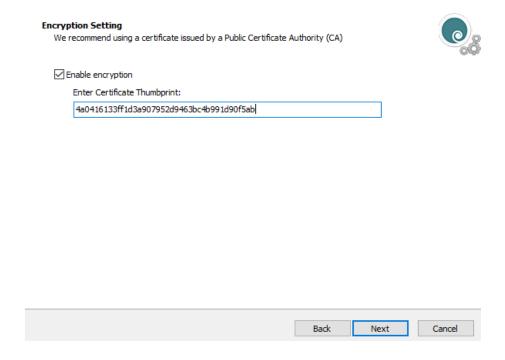


Enter the Query Engine configuration details and click Next.

- a. **Milestone XProtect Server URL**: Obtain this from Milestone Server Configurator > Registering Servers > Management Server address.
- b. Username and Password: These credentials will be used to run the Query Engine Service. The account needs to have an administrator role in XProtect. If you skip this step, the service will run as "Local System," requiring configuration with a XProtect Basic user with admin role using the Query Engine Configuration tool.

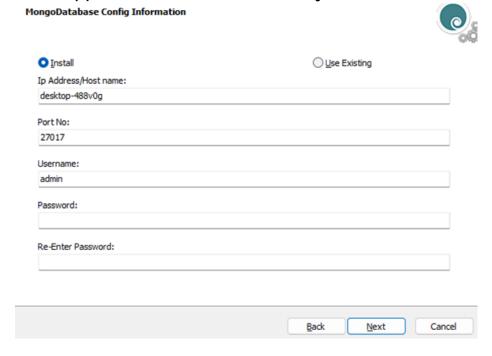
5. SSL Certificate (if applicable)

Enter the SSL certificate thumbprint, if encryption using SSL is configured on your system. If encryption is not configured, proceed without enabling it and click **Next**.



6. Install or Use Existing MongoDB

- a. **Install**: Select **this** option for a fresh installation of the Query Engine, including MongoDB configuration.
- b. **Use Existing**: Choose this option if you have an existing MongoDB service. Enter the same MongoDB username and password used for other applications. Click **Next** to verify the credentials.

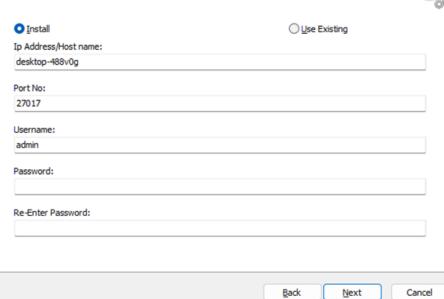


7. Complete Installation

Click **Finish** to complete the installation. Ensure that the Query Engine has fetched all necessary data before starting the XProtect Smart Client.

MongoDatabase Config Information





Note: Please make sure to securely document and store the passwords as they will be required for any future upgrades or maintenance tasks. Losing access to these credentials may result in difficulties during the upgrade process.

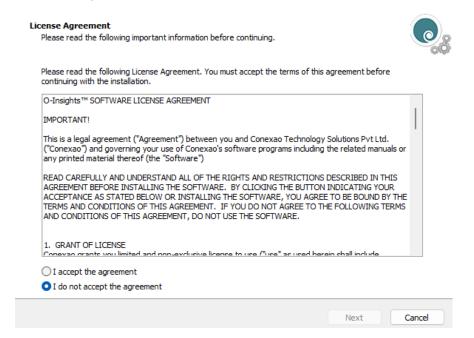
Command Center Service

The Command Center Service facilitates communication between XProtect and the Command Center application. The Command Center Service should be installed on the XProtect Management Server or any server machine that can connect to the XProtect Management Server for optimal performance.

Prerequisites:

 Query Engine Installation: It is mandatory to install the Query Engine before setting up the Command Center. If it is not already installed for O-Insights reporting, please proceed with its installation first, following the steps detailed above.

Installation Steps:



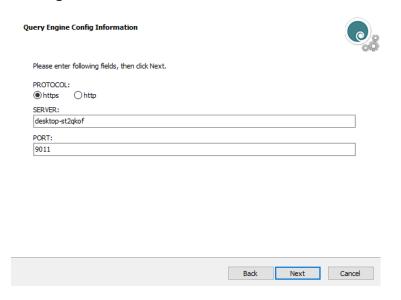
1. Start the Installation

Open the setup file, O-Insights Command Center Service Setup.exe. After reviewing the License Agreement, click Accept and then Next to proceed.

2. License Agreement:

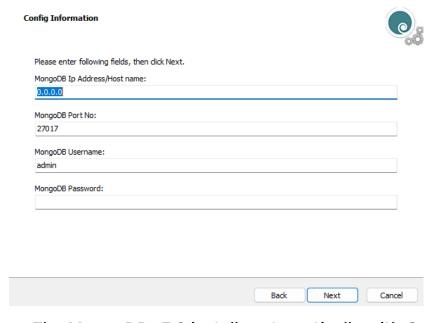
- Read the license agreement carefully.
- Select I accept the agreement and click Next to proceed.

3. Configuration Details:



- Protocol Selection: Choose the appropriate protocol (HTTP or HTTPS).
- Server Details: Enter the hostname of the machine where the Query Engine is running in the SERVER field.
- Port Configuration: The default PORT is 9011. Click Next to continue.

4. Setting up MongoDB:

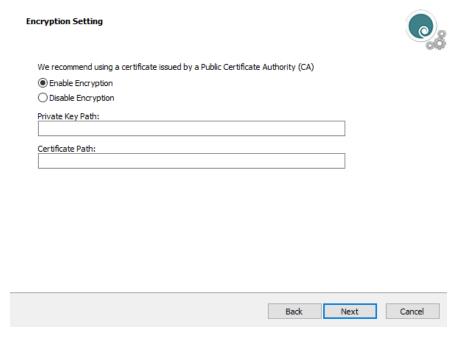


- The MongoDB v7.0 installs automatically with Query Engine 5.0. If MongoDB is already installed, ensure it is at least version 6.0 for compatibility.
- Leave the MongoDB IP Address/Hostname as default if the Query Engine and Command Center Service are on the same machine.
- Default MongoDB Port No is 27017.

• Enter the MongoDB password used during the Query Engine installation in the MongoDB Username and MongoDB Password fields.

Note: Please make sure to securely document and store the passwords as they will be required for any future upgrades or maintenance tasks. Losing access to these credentials may result in difficulties during the upgrade process.

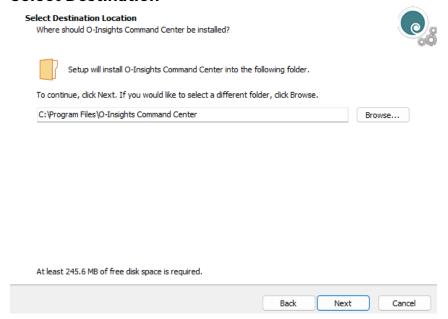
5. SSL Encryption (Optional):



To enable the SSL Encryption, choose the Enable Encryption option.

- If using SSL Encryption, enable encryption and provide paths for the PEM Certificate and PEM Private Key in the Certificate Path and Private Key Path respectively.
- Certificates used for XProtect, Query Engine, and Command Center Service should be consistent.
- Once done, click Next to proceed.

6. Select Destination



On the Select Destination Location page, you can change the installation path of the service if necessary. The default installation path is C:\Program Files\O-Insights Command Center. Click Next to proceed.

7. Complete Installation

Click on *Install*. Once installation is done, click *Finish* to complete the installation and exit the setup.

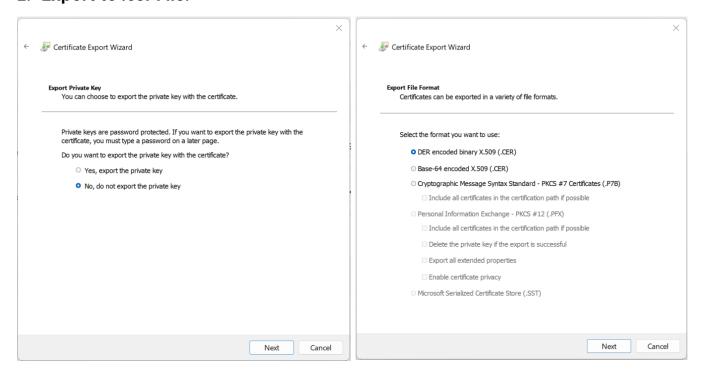
Enable SSL Encryption for Command Center

For enabling SSL with the Command Center over HTTPS, follow these detailed steps. We recommend obtaining a certificate from a trusted certificate authority for security reasons.

Using an Existing Certificate

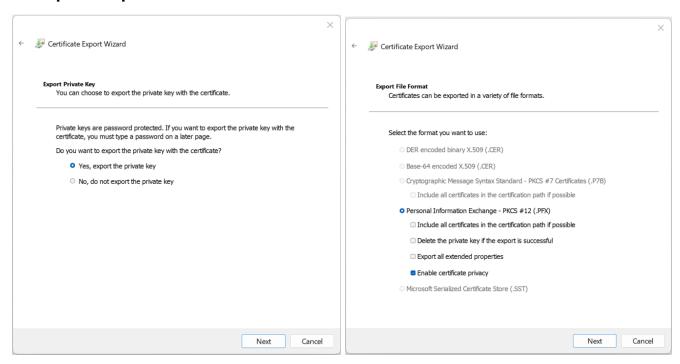
To utilize an existing certificate, it needs to be converted to .pem format. Follow these steps to convert a certificate to .pem files:

- 1. Open MMC: Run mmc.exe and access the certificates folder.
- 2. Export to .cer File:

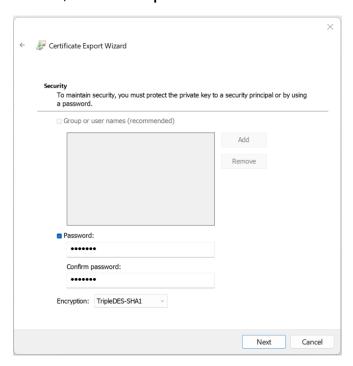


- Right-click on the required certificate.
- Navigate to All Tasks -> Export.
- Save the file as .cer in a desired location. Click Next and once done, click Finish.

3. Export to .pfx File:



- Repeat the export process for the same certificate (Right click -> All Tasks -> Export).
- This time, save as a .pfx file.



- Enter a password for the file, which will be needed for the .pem conversion. Once done click Next.
- Save the file as .pem in a desired location. Click Next and once done, click Finish.

4. Copy to OpenSSL Folder: Move the .cer and .pfx files to the OpenSSL directory included with the Command Center setup.

5. Convert to .pem:

- Open a command line interface and navigate to the OpenSSL directory.
- Execute the following commands to convert files:

Convert .cer to .pem: .\openssl x509 -inform DER -in yourcerfilename.cer -out cert.pem

Convert .pfx to .pem: .\openssl pkcs12 -in yourpfxfile.pfx -out key.pem - nocerts -nodes

• Use the password from step 3 when prompted.

Note: When SSL is active for the Query Engine or Command Center Service using a self-signed certificate, adjust the .env file of the Command Center Service. By default, secure SSL certificate validation is enforced (value set to 1). For self-signed certificates, you need to modify the following line in the .env file located in Install Directory>\O-Insights Command Center\Services\.env to disable strict validation:

 # Set to 0 if the SSL certificate is self-signed; setting it to 0 may compromise security

NODE_TLS_REJECT_UNAUTHORIZED=0

Checking/Verifying SSL Certificate

Here's the guide for checking and verifying the SSL certificate using the SSL Checker tool provided in the setup:

1. Access Configuration File: Open the .env file included with the SSL Checker tool.

2. Update Certificate Paths

- Modify the following lines in the .env file to point to your certificate paths, then save the changes:
 - SSL_CERTIFICATE_PATH=*C:\SSLCertificate\cert.pem*
 - SSL_PRIVATE_KEY_PATH=*C:\SSLCertificate\key.pem*
- 3. **Run SSL Checker**: Execute the ssl-cert-check.exe tool to start the SSL verification process.
- 4. **Verify Certificate:** Once the application window provides a URL, copy and paste it into any web browser to check the certificate's functionality and ensure it is working correctly.

Command Center Plugin Installation

1. Prerequisites:

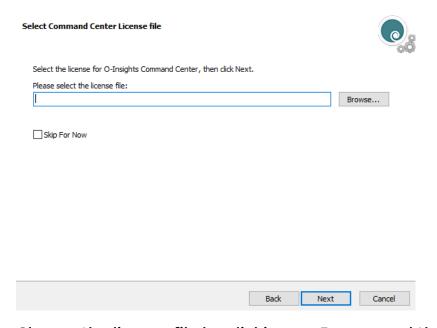
- Ensure that the Command Center Plugin is installed on all machines running XProtect Smart Client.
- If the event server is located on a different machine than the XProtect Smart Client machine, copy the Olnsights Incident Creator Rule folder to the MIP plugin folder of the event server. This folder can be found at:
 - C:\Program Files\Milestone\MIPPlugins\O-Insights Command Center on XProtect Smart Client machines where the Command Center plugin is installed.
- Before starting the installation, ensure that all XProtect Client components are closed and the XProtect Event Server is stopped.

Note: Installation should be done in the MIP Plugin Directory. Typically, this should be: C:\Program Files\Milestone\MIPPlugins\O-Insights

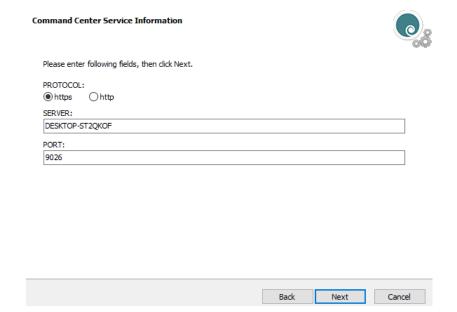
Command Center

2. Installation Process:

- Open the setup EXE file provided.
- Read the license agreement, select I accept the agreement, and click Next to proceed.



• Choose the license file by clicking on Browse and then click Next to proceed.



• Configure the Command Center Service details such as protocol, server, and port. Provide the DNS Host name of the machine running the Command Center Service in the SERVER field.

Note: Use the ping command to obtain the full DNS name.

3. Completing Installation:

- After completing the setup, click Finish to conclude the installation process.
- Restart the XProtect Event server.

You can start XProtect Smart Client from the installed directory or use the desktop shortcut.