



SQUID Interconnected Sites Monitor By Systeminence

Version 1.1

• Systeminence Off-Shore, SAL | Adonis El Wadi Street | Bld37 | Zouk Mosbeh | Lebanon • M. +961 3 53 30 36 | E. info@systeminence.com | W. <u>www.systeminence.com</u>



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Document Information

Product Name:	SQUID - Interconnected Sites Monitor by Systeminence
Document Version	1.1

Document Revision History

Revision Date	Author	Summary of changes
11/1/2019	Ramy Abou Haydar	Initial Version 1.0
22/7/2019	Ramy Abou Haydar	Enhanced Version 1.1

Introduction

This installation and user manual describe the steps to install and use "SQUID-Interconnected Sites Monitor" plugin By Systeminence.

The purpose of this plugin is to provide users at a Milestone XProtect Corporate central site with a detailed overview about all their Milestone Interconnected sites. these details include: Site IP address, name, status, last connection, last disconnection and a reporting tab that could be used for auditing changes done in the interconnected sites.

Enhancement

This new version release includes feature enhancements and is more stable. A service has been created for collecting data and storing it in an SQL database for reporting purposes. This release is designed to work with any version of Milestone XProtect Corporate between 2018 R1 and newer. In addition, the administrator can now modify the SQL configuration through the Management Client and export a status report out of the system.

Feature Matrix

Supported Features

Plugin Feature	Supported (Y/N/NR)*	Notes
Live status monitoring	Y	
Filter between online/ Offline	Y	
Filter by Server Name	Y	
Status filter between 2 dates	Y	
Status reporting	Y	
License per remote site	Y	
Management Client Plugin	Y	

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Pre-Requisites

Milestone XProtect Corporate installed and configured

Prior to installation, verify that Milestone XProtect Corporate Management server is installed and configured in the main site, and all the interconnected sites are added. In addition, verify that Milestone data collector service and Milestone log server service are running. Make sure to include all log level for the system logs. To do that, open the management client \rightarrow tools \rightarrow Options \rightarrow Server logs and choose "All" from the log level drop down list as per the picture below.



NB: Please close all windows prior launching SQUID installer to avoid any errors.

The installation process requires the below steps:

- i. Install .net Framework 4.7.2 to be able to use the plugin.
- ii. Milestone Corporate 2018R1 or above installed.
- iii. Configure SQL server 2016.
- iv. Setup and configure "SQUID-Interconnected site Monitoring plugin"



Install .net Framework 4.7.2

.net Framework installer can be downloaded using the following this link:

https://go.microsoft.com/fwlink/?linkid=863265

.Net Framework should be installed on every Smart client machine that is going to host the "Interconnected site Monitoring plugin".

SQL server 2016 or above configuration

As a pre-requisite to the plugin installation, the SQL server 2016 or above which contains the configuration of Milestone should be configured to accept SQL server authentication and "sa" username to be enabled or create a new SQL login.

In order to configure SQL server, SQL management studio 2016 or above have to be installed.

	Microsoft SQL Server Management Studio				Quick Launch (Ctrl+Q)
With With With With With With With With	File Edit View Tools Window Help 이 - 이 웹 - 입 - 일 볼 이 요 New Query 온 삶 삶 값 삶 응 습 / 기 - 연 - () [2]	- 🗇 - 🗇	ger • 💦 🖉	- 同 ル 羊 朝 - 。	
	Tris Edit West Trade West Help □ □ □ □ □ □ □		PPI V V A	· 贝ノ ≐ 颖 • .	

Open and login to SQL Management Studio and click connect

In the left pane, right click the server name and choose properties





Go to "Security" and enable "SQL Server and Windows Authentication mode", click OK.

Server Properties - DESKTO	P-V8LSR60	_		\times
Select a page	🖾 Script 🔻 🌇 Help			
Memory Processors Secuty Connections Database Settings Advanced Permissions	Server authentication Windows Authentication mode			
Connection	Proxy account.			
Server: DESKTOP-V8LSR60	Options			
Connection: DESKTOP-V8LSR60\Ramy	Enable C2 audit tracing Cross database ownership chaining			
Progress				
Ready				
		ОК	Cance	el l

By Default, "sa" user is disabled. To enable it, expand the security tab under the server name than click "Logins". Right click the "sa" user and open the properties tab.

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Click on "General" in the left pane,

- 1- change the password
- 2- modify password complexity, uncheck if you will use simple passwords.

🚦 Login Properties - sa				_		×
Select a page	🖾 Script 🔻 🚺 Help					
Server Roles User Mapping Status	Login name: Vindows authentication SQL Server authentication Password: Confirm password: Specify old password Old password: Enforce password policy Enforce password expiration User must change password Netword to certificate Mapped to asymmetric key	sa) 2		Search	l
Connection	Map to Credential			\sim	Add	
Server: DESKTOP-V8LSR60 Connection: DESKTOP-V8LSR60\Ramy Wiew connection properties	Mapped Credentials	Credential	Provider			
Progress					Remov	/e
Ready	Default database: Default language:	master English		~		
	·		0	(Cance	

To assign the server role "Sysadmin", click on "Server roles"



🚦 Login Properties - sa		_		×
Select a page	Script 👻 📑 Help			
Server Roles	Server role is used to grant server-wide security privileges to a user.			
	Server roles:			
	diskadmin			
	C processauxio			
· · · · · · · · · · · · · · · · · · ·				
	seturadmin			
	✓ sysadmin			
	\smile			
A A				
Connection				
Server: DESKTOP-V8LSR60				
Connection: DESKTOP-V8LSR60\Ramy				
View connection properties				
Progress				
Ready				
-4PA				
		ОК	Cance	el:

Once done, please restart the SQL. Right click on the server name and click "Restart"





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SQUID Installation

To start the installation, open the SQUID folder and run the SQUID.exe installer "as Administrator". Click "next"

🥹 Squid	—		\times
Welcome to SQUID Interconnected Site Monitor for XProtect Corporate setup W	izard		
The installer will guide you through the steps required to install SQUID Interconnected Site XProtect Corporate on your Computer.	Monitor	for	
WARNING: This computer program is portected by copyright law and international treaties duplication or distribution of this program, or any portion of it, may result in severe civil or and will be prosecuted to the maximum extent possible under the law.	.Unautho criminal p	orized penalties	δ,
Cancel		Next ->]

After reading the License Agreement, click "I agree" and click "Next"

😔 Squid	_		\times
End User License Agreement			
This End-user License Agreement is a legally binding agreement between you (either an individual or a single entity) and SYSTEMINENCE for this software add on for the Milestone Smart Client, which may include associated software components, media, printed materials, an electronic documentation. By installing, copying, or otherwise using the product covered by this EULA, you agree to be bound by the ter you do not agree to the terms of this EULA, do not install or use the product, instead you may return it, within 30 days, along with all ass your place of purchase for a full refund. The product is protected by copyright laws and international copyright treaties, as well as other laws and treaties. Note that the product is licensed to you, not sold. The license you have been granted is identified by the Software Lice received.	(OFFSHO d online o ms of this ociated m intellectu anse Code	DRE) SAL r EULA. If naterial to al property you	^
* Installation and Use *			
SYSTEMINENCE (OFFSHORE) SAL hereby grants you the right to install and use the software product with the following restrictions:			
 The purchased license allows the product to be installed on an unlimited number of computers designated as Master Servers per Software License Code. 	r Mileston	e	
 The purchased license allows the product to be installed on an unlimited number of Slave Server computers per designated Mas same Milestone Software License Code. 	ter Serve	r using the	
3. The product may only be used on computers running operating systems and Software for which the product was designed.			
4. The product may only be operated, regardless of whether this is directly or in some indirect form, by you, your employees or of for you, including law enforcement authorities investigating incidents for you. The product may therefore, for instance, not be operated by customers of you or other 3rd parties not controlled by you.	ther peop or used in	le working any way	~
		O I agree	э
<- Back Can	cel	Next -	>

In the window below, you can choose either to install:

1- SQUID smart client plugin: This plugin should be installed on Smart Client Workstation that needs to use the SQUID application.

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2- SQUID Data Collector: This service should be installed on the management server machine. Choose this option to install the SQUID service for data collection and the Management client plugin for updating configuration.

NOTE: The squid data collector cannot be installed on more than 1 server. If the service is already installed, the "Squid Data Collector" is ticked and grayed out.

😣 Squid				×
Please select Squid feature	e to install			
Squid Smart Client Plugin				
Squid Data Collector				
	<- Back	Cancel	Next	->

Squid Data Collector

- Write the SQL server name and click get logins, all SQL authentication usernames will appear in the *"Server Admin Login Name"*, choose the correct username and enter the password in the *"Login Password"* and click *"Test"*. A successful connection message box should appear. Otherwise, you will receive a notification if the password is wrong.
- 2. Configure the "Data Update Interval in seconds" text box to configure the update frequency of the data.

NOTE: if the SQUID database already exists, the "Database exist" check box will be ticked.



😣 Squid		_		Х
	SQL Server Name Nsqlexpress Server Admin Login Name Login Password Data update interval in seconds Database exists	Get Logins		
	<- Back	Cancel	Next	->

Once all information is filled, click "Next"

On this page, enter Milestone management server IP address and choose the type of authentication. You can choose 1 of 3 authentication methods:

• Basic authentication: from the drop-down list you can choose one of the basic users created inside Milestone. Only basic users that belongs to the Administrator role will be seen in the drop-down list.

😣 Squid			_		×
Management server address:	http://localhost]			
Authentication:	Basic authentication $~~$ $~~$				
User Name:	op1 ~]			
Password:	4]			
	<- Back Car	icei	Next ->	>	

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• Windows authentication: you can choose any windows user related to the target machine

😣 Squid		_		×
Management server	address: http://localhost			
Authentication:	Window authentication $~~$			
User Name:	Administrator			
Password:	***			
	<- Back Cancel	Nevt	->	
	Cancer	NCAU	-	

• Windows authentication (current user): the installer will use the currently logged in user.

😣 Squid		_		×
Management server address:	http://localhost			
Authentication:	Window authentication (Cun $ \sim$			
User Name:	User 🗸			
Password:				
	<- Back Cance	Next	->	

Once ready, click next.

You will receive the below message if the installation was successful.



Squid	-		×
You have successfuly installed Souid Data Collector			
	_		_
	L	Close	

NOTE: Squid service will run automatically once installed. Please check the "services" in the "Task Manager" and make sure the service is running.

Squid Management Client Plugin

In this release, the plugin is installed on the same server of the data collector. To modify the SQL server configuration, the administrator can update the settings through the management client:

• SQL configuration tab



To modify the Data collector configuration, the administrator can update the settings through the management client:

• Data Collector Configuration

Milestone XProtect Management Client	t 2019 R1		
File Edit View Action Tools Help			
Site Navigation	Continuention		
D AMY (12 1-)	Conliguration	-	
RAMIT - (13.1a)	Sql Configuration Data collector co	onfiguartion	
Disease Information			
Site Information			
Remote Connect Services	Management server address:	http://localhost	
Axis One-click Camera Conn	Authentication:	Device of the street of the	
Servers		Basic authentication	
Recording Servers	User Name:	interronnect v	
Failover Servers			
Mobile Servers	Password:		
E Pevices			
Cameras			
Microphones			
Speakers		Save	
ofo Input			
💡 Output			
🖻 💷 Client			
- Smart Wall			
🛁 View Groups			
- 🛃 Smart Client Profiles			
Management Client Profiles			
Matrix			
Rules and Events			
- 🔛 Rules			
Time Profiles			
Notification Profiles			
User-defined Events			
Analytics Events			
Generic Events			
Security Relace			
Proies			
Svetem Dashboard			
Current Tasks			
System Monitor			
System Monitor Thresholds			
2 Evidence Lock			
Configuration Reports			
Server Logs			
Access Control			
Transact			
Transaction sources			
Transaction definitions			
Squid			

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Squid Smart Client Plugin

NB: Please make sure that Smart Client is closed prior starting the installation

In order to start monitor the status of the interconnected remote sites, you will have to install the "Squid Smart Client Plugin".

To start the installation, run the setup and choose "Squid Smart Client Plugin" and click "Next"

🐵 Squid		_		×
Please select Squid feature	e to install			
Squid Smart Client Plugin				
Squid Data Collector				
	<- Back	Cancel	Next ->	

1. Write the SQL server name and click get logins, all SQL authentication usernames will appear in the *"Server Admin Login Name"*, choose the correct username and enter the password in the *"Login Password"* and click *"Test"*. A successful connection message box will appear.

You will receive a notification if the password is wrong.

2. Configure the "Data Update Interval in seconds" text box to assign the update frequency of the data.

NOTE: if the database already exists, the "Database exist" check box will be ticked.



🛞 Squid		_		×
	SQL Server Name Naglexpress Server Admin Login Name Login Password Data update interval in seconds Database exists	Get Logins		
	<- Back	Cancel	Next	->

Once all information is correct, click "*Next*". If the installation is successful, you will receive the below message.

Squid	—		×
You have successfuly installed Squid Smart Client Plugin.			
		Close]

Licensing

The license for the monitoring tool is per remote site and linked to your SLC. In order to issue a license for your clients, please send your client's SLC number to support@systeminence.com and once you get a confirmation email, please reactivate your license.



Plugin Functionality

Milestor	e XProtect Smart C	lient															8/5/201	9 2:24:46 PM	- 0	×
Live	Playback	Sequence Explorer	Alarm Manager	Squid	System Monitor														• 0	۴ ~
22440 84	A Transforme for us	ing this trial licence to demonstrate of	r evaluate the XProtect vid	eo management so	tware. The trial license expire	s on 9/20/2019. To fully lic	ense the product, ple	ease contact you	ur reseller or find on	e on www.milestonesy	rs.com.		с					Setup D		~ ⊠ ×
Server Name		Status:										<	From: S	elect a date 🏢	To: Sel	lect a date 🏢	Clear	Report	Sett	tings
Server Home First Site N	lew	Conver IP Address http://192.168.0.1	146/	Last Connection 05/08/19 09:2	Last Disc 8 05/08/	onnection 19 09:58	Status Offline													
Second Sit	e	http://192.168.0.1	113/	05/08/19 10:2	6 05/08/	19 12:43	Offline													

- 1- Plugin tab: Click on this tab if you want to view its content
- 2- Filter by:
 - A. Server name: Use the server name to filter the targeted server
 - B. Status: Chooses between "Online" or "Offline" to filter by server status
 - C. From To: Filter between 2 dates
 - D. Report: to extract reports out of the system
 - i. Type of the user activity reports:
 - 1. User added site: "Server name" added between predefined 2 dates
 - 2. User deleted site: "Server name" deleted between predefined 2 dates
 - 3. User Renamed site: "Server name" renamed between predefined 2 dates
 - 4. User added multiple sites: Site(s) added between predefined 2 dates
 - 5. User deleted multiple sites: Site(s) deleted between predefined 2 dates
 - 6. User renamed multiple sites: Site(s) renamed between predefined 2 dates
 - 7. User changed site IP address: Site(s) replaced between predefined 2 dates
 - E. Settings: Use this tab to modify the SQL configuration of the plugin in case the IP address or SQL authentication changed.

FAQ

- 1- My Smart Client crashed after requesting a status report: Always make sure to close all previous requested reports
- 2- The Smart Client has no data: make sure to have Squid service running and authentication with SQL server is established
- 3- Squid service not restarted after updating configuration in the Milestone Management client: The Management client plugin should be started with "*Run as administrator*"

For more information, please contact supprot@systeminence.com

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