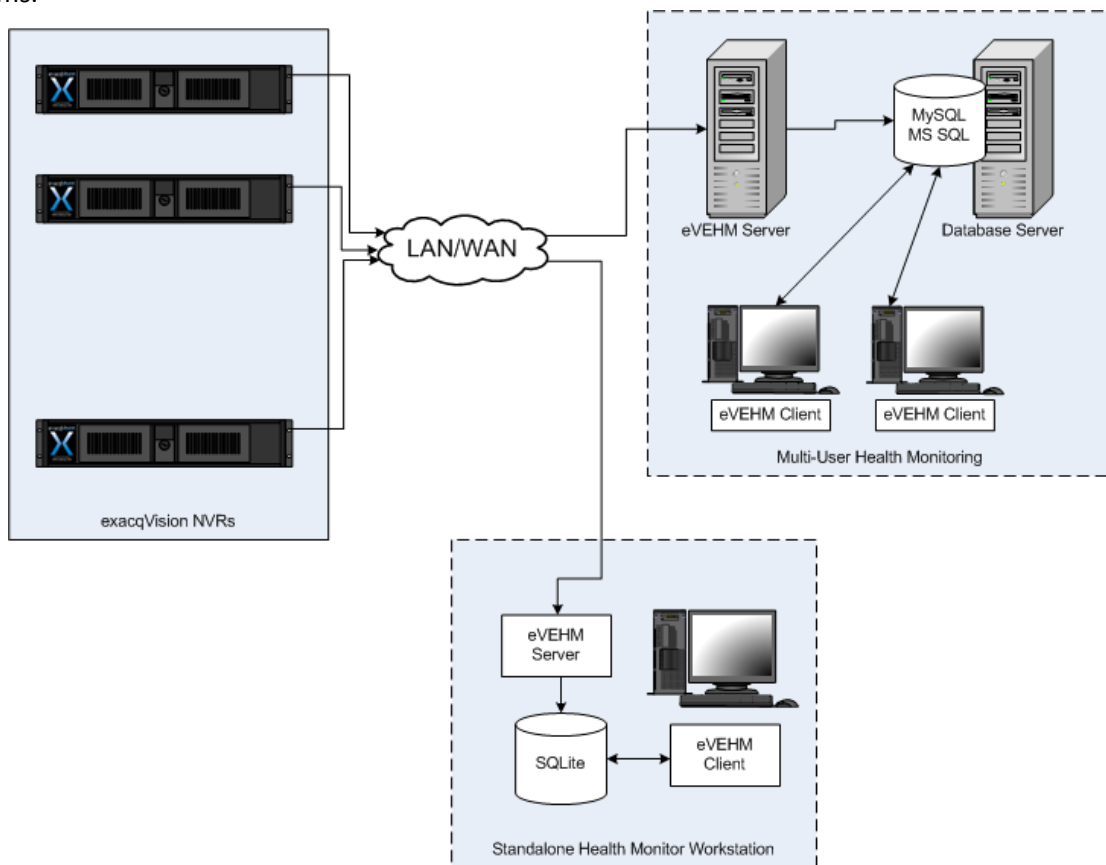


Introduction

exacqVision Enterprise Health Manager (eVEHM) allows you to remotely monitor certain parameters and events on exacqVision Servers with Enterprise licenses. eVEHM is a Client/Server application. The eVEHM Server runs as a service on any computer with a network connection to the monitored exacqVision Servers and a database connection. The eVEHM Client only requires connectivity to the database. eVEHM can run as part of a multi-user platform connected to a MySQL or Microsoft SQL (MS SQL) database, or on a standalone Client/Server workstation using an SQLite database that is created by the eVEHM Server.

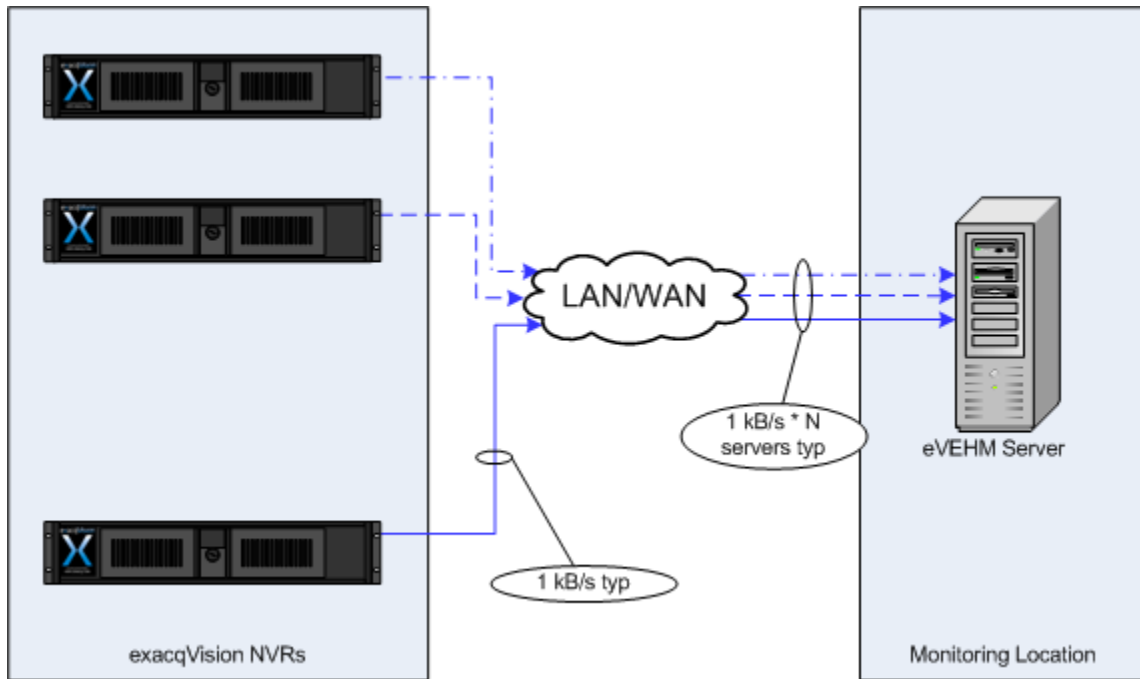
The following diagram shows how eVEHM communicates with the database server and exacqVision systems.



NOTE: In the Multi-User example, eVEHM and the database can run on the same server.

NOTE: In the Standalone example, eVEHM, SQLite, and the eVEHM Client must all run on the same workstation (even an exacqVision client computer). Clients from remote machines cannot connect to the SQLite database in the standalone installation.

The following drawing shows the approximate bandwidth used by the various eVEHM connections.

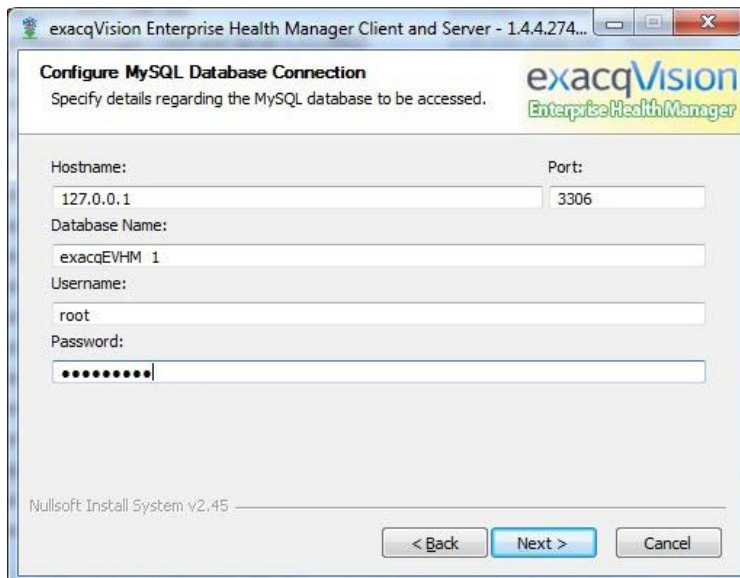


Installation

NOTE: eVEHM Server can be installed on a Linux or Windows platform. eVEHM Client can be installed on a Linux, Windows, or Mac platform. **If eVEHM will connect to a new MySQL database, see Appendix A before starting the procedure in this section.**

To install Enterprise Health Monitor Client and Server, complete the following steps:

1. Run the exacqVisionHealthClientAndServer.exe file and follow the onscreen prompts.
2. When the database types appear, select the type as follows:
 - **MySQL** (appropriate for most installations)
 - **ODBC** (select only if the database type is MS SQL)
 - **SQLite** (select if the eVEHM client will be run only on the eVEHM server)
3. Configure the eVEHM database connection to match your database. If eVEHM and the database are located on the same server, enter 127.0.0.1 as the hostname, as shown in the following example.



The screenshot shows a window titled "exacqVision Enterprise Health Manager Client and Server - 1.4.4.274...". The main content area is titled "Configure MySQL Database Connection" and includes the instruction "Specify details regarding the MySQL database to be accessed." The fields are as follows:

Hostname:	127.0.0.1	Port:	3306
Database Name:	exacqEVHM 1		
Username:	root		
Password:	••••••••		

At the bottom, there are three buttons: "< Back", "Next >", and "Cancel". The text "Nullsoft Install System v2.45" is visible in the bottom left corner of the dialog box.

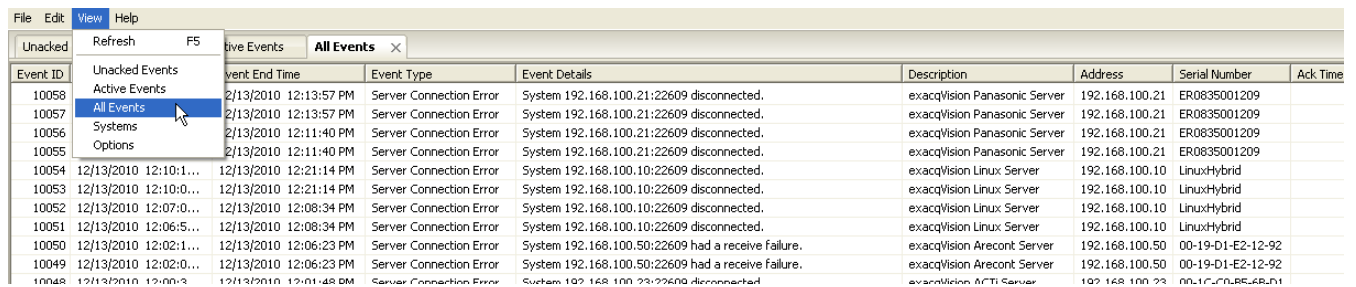
4. If eVEHM will connect to an existing SQL server, select Write Schema File and provide the file to the database administrator for manual configuration. Otherwise, select the Update Database Schema During Installation to have the installation process take care of this for you.

eVEHM Client Overview

By default, eVEHM Client opens to the Active Events tab if the connection the database is successful. Otherwise, you must select Open from the File menu and browse to the database.

You can open the following tabs from the View menu:

- **Unacked Events.** This tab shows all active events that have not been acked.
- **Active Events.** This tab shows all monitored events that are still in progress or haven't been resolved. This can include events that have been acknowledged (acked).
- **All Events.** This tab shows all events regardless of whether they are active, inactive, acked, or unacked.
- **Systems.** This tab shows a list of all monitored servers and their status.
- **Options.** This tab allows you to modify eVEHM parameters.



The screenshot shows the eVEHM Client interface. The 'View' menu is open, showing options: Unacked Events, Active Events, All Events (highlighted), Systems, and Options. The background shows a table with columns: Event ID, Event Start Time, Event End Time, Event Type, Event Details, Description, Address, Serial Number, and Ack Time. The table contains several rows of event data, including server connection errors and disconnections.

Event ID	Event Start Time	Event End Time	Event Type	Event Details	Description	Address	Serial Number	Ack Time
10058	12/13/2010 12:13:57 PM	12/13/2010 12:13:57 PM	Server Connection Error	System 192.168.100.21:22609 disconnected.	exacqVision Panasonic Server	192.168.100.21	ER0835001209	
10057	12/13/2010 12:13:57 PM	12/13/2010 12:13:57 PM	Server Connection Error	System 192.168.100.21:22609 disconnected.	exacqVision Panasonic Server	192.168.100.21	ER0835001209	
10056	12/13/2010 12:11:40 PM	12/13/2010 12:11:40 PM	Server Connection Error	System 192.168.100.21:22609 disconnected.	exacqVision Panasonic Server	192.168.100.21	ER0835001209	
10055	12/13/2010 12:11:40 PM	12/13/2010 12:11:40 PM	Server Connection Error	System 192.168.100.21:22609 disconnected.	exacqVision Panasonic Server	192.168.100.21	ER0835001209	
10054	12/13/2010 12:10:14 PM	12/13/2010 12:21:14 PM	Server Connection Error	System 192.168.100.10:22609 disconnected.	exacqVision Linux: Server	192.168.100.10	LinuxHybrid	
10053	12/13/2010 12:10:14 PM	12/13/2010 12:21:14 PM	Server Connection Error	System 192.168.100.10:22609 disconnected.	exacqVision Linux: Server	192.168.100.10	LinuxHybrid	
10052	12/13/2010 12:07:03 PM	12/13/2010 12:08:34 PM	Server Connection Error	System 192.168.100.10:22609 disconnected.	exacqVision Linux: Server	192.168.100.10	LinuxHybrid	
10051	12/13/2010 12:06:53 PM	12/13/2010 12:08:34 PM	Server Connection Error	System 192.168.100.10:22609 disconnected.	exacqVision Linux: Server	192.168.100.10	LinuxHybrid	
10050	12/13/2010 12:02:11 PM	12/13/2010 12:06:23 PM	Server Connection Error	System 192.168.100.50:22609 had a receive failure.	exacqVision Arecont Server	192.168.100.50	00-19-D1-E2-12-92	
10049	12/13/2010 12:02:11 PM	12/13/2010 12:06:23 PM	Server Connection Error	System 192.168.100.50:22609 had a receive failure.	exacqVision Arecont Server	192.168.100.50	00-19-D1-E2-12-92	
10048	12/13/2010 12:00:03 PM	12/13/2010 12:01:48 PM	Server Connection Error	System 192.168.100.22:22609 disconnected.	exacqVision ACTI Server	192.168.100.22	00-1C-C0-BE-6B-D1	

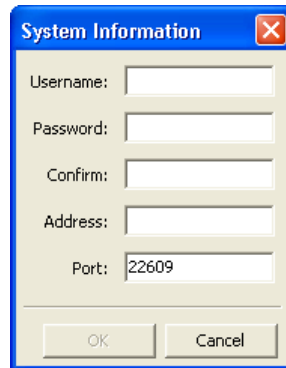
To close a tab, click on the X next to the tab's title. You can open multiple tabs simultaneously. To view more than one tab at a time, click and drag a tab title to an empty part of the screen. You can then resize a tab as desired by clicking and dragging its borders.

Each tab is described in greater detail the following sections.

NOTE: Information on all eVEHM tabs is displayed in columns. To add or remove a column from a tab, right-click any column title and select a column name (columns with check marks next to them are displayed in the tab). You can also re-sort entries by clicking a column title.

Adding Systems

The first thing you should do when you run eVEHM is add a server that you want to monitor. Open the Systems tab and select Add System from the Edit menu to display the System Information pop-up window. Enter a valid username as configured on the system, a password, the password again, the IP address of the system, and the port number through which the system communicates on the network. Click OK when finished.

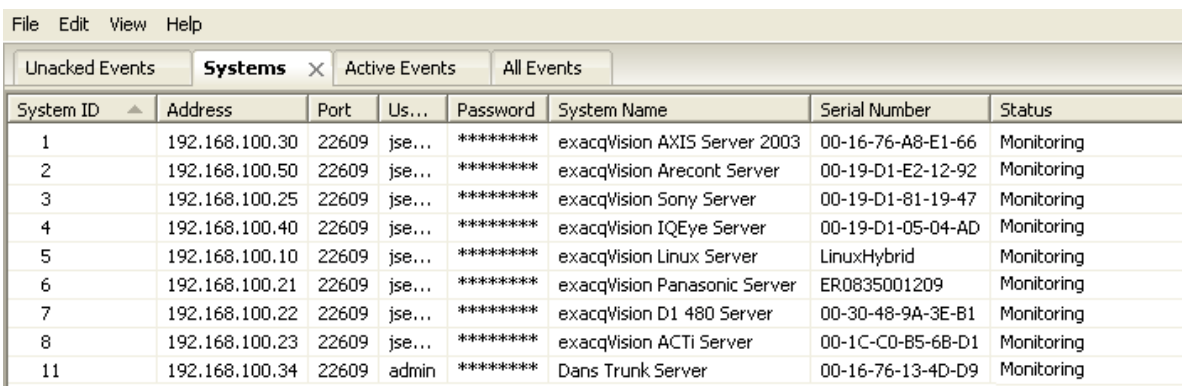


A dialog box titled "System Information" with a close button (X) in the top right corner. It contains five input fields: "Username:" (empty), "Password:" (empty), "Confirm:" (empty), "Address:" (empty), and "Port:" (containing "22609"). At the bottom are "OK" and "Cancel" buttons.

When you select a line on the Systems tab, the Edit menu also contains an Edit System and a Delete System menu item. You can use these to modify system information or remove a system from eVEHM monitoring.

The Systems tab contains the following columns:

- **System ID.** This is a sequential number assigned to each server. The first system is 1, and each successive server is the next available number. If a system is deleted from the list, all systems maintain their original System ID.
- **Address.** The IP address of each server (not the address of an IP camera).
- **Port.** The port number through which the server communicates over the network.
- **Username.** The account through which the user is logged in to the server.
- **Password.** The password that the account used to log in to the server.
- **System Name.** The name of the server as it is identified on the network.
- **Serial Number.** The serial number of the system as assigned during manufacturing
- **Status.** The current status of eVEHM monitoring on the system.



A screenshot of the software interface showing the "Systems" tab. The window has a menu bar with "File", "Edit", "View", and "Help". Below the menu bar are tabs for "Unacked Events", "Systems" (selected), "Active Events", and "All Events". The main area displays a table with the following columns: System ID, Address, Port, Us..., Password, System Name, Serial Number, and Status. The table contains 11 rows of system data.

System ID	Address	Port	Us...	Password	System Name	Serial Number	Status
1	192.168.100.30	22609	jse...	*****	exacqVision AXIS Server 2003	00-16-76-A8-E1-66	Monitoring
2	192.168.100.50	22609	jse...	*****	exacqVision Arecont Server	00-19-D1-E2-12-92	Monitoring
3	192.168.100.25	22609	jse...	*****	exacqVision Sony Server	00-19-D1-81-19-47	Monitoring
4	192.168.100.40	22609	jse...	*****	exacqVision IQEye Server	00-19-D1-05-04-AD	Monitoring
5	192.168.100.10	22609	jse...	*****	exacqVision Linux Server	LinuxHybrid	Monitoring
6	192.168.100.21	22609	jse...	*****	exacqVision Panasonic Server	ER0835001209	Monitoring
7	192.168.100.22	22609	jse...	*****	exacqVision D1 480 Server	00-30-48-9A-3E-B1	Monitoring
8	192.168.100.23	22609	jse...	*****	exacqVision ACTi Server	00-1C-C0-B5-6B-D1	Monitoring
11	192.168.100.34	22609	admin	*****	Dans Trunk Server	00-16-76-13-4D-D9	Monitoring

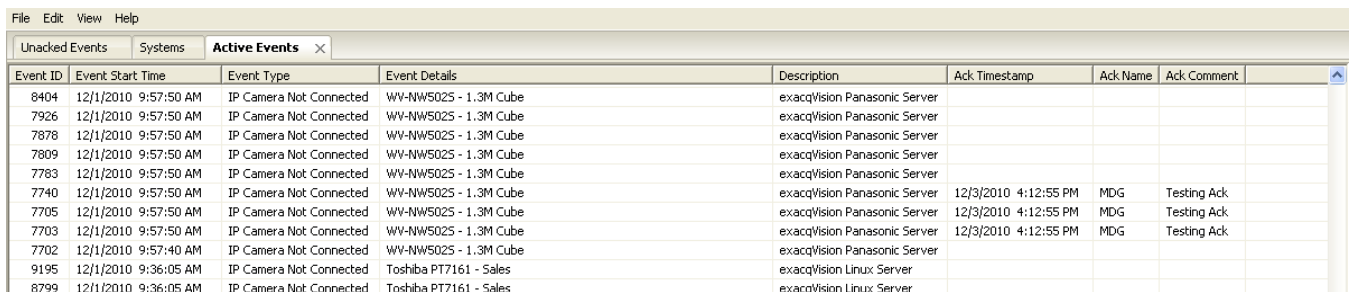
Viewing and Managing Monitored Events

By default, the Active Events, Unacked Events, and All Events tabs contain the following columns:

- **Event ID.** This is a sequential number assigned to each event. The first event is 1, and each successive event is the next available number.
- **Event Start Time.** This is the date and time of the start of the event.
- **Event Type.** See the “Options Tab” section of this document to see the types of events that can be monitored.
- **Event Details.** This shows the camera affected by the event or the name of an activated trigger.
- **Description.** This is the server on which the event occurred.

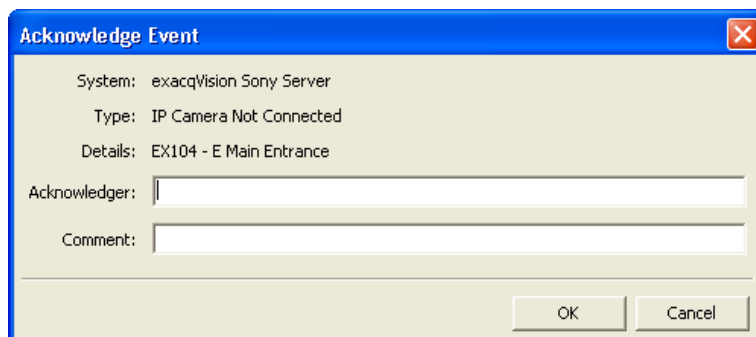
The ActiveEvents and All Events tabs also include the following columns:

- **Ack Timestamp.** The time that the event was acked (if applicable).
- **Ack Name.** The name of the person or account that acked the event.
- **Ack Comment.** Any optional information about the ack.



Event ID	Event Start Time	Event Type	Event Details	Description	Ack Timestamp	Ack Name	Ack Comment
8404	12/1/2010 9:57:50 AM	IP Camera Not Connected	WW-NW5025 - 1.3M Cube	exacqVision Panasonic Server			
7926	12/1/2010 9:57:50 AM	IP Camera Not Connected	WW-NW5025 - 1.3M Cube	exacqVision Panasonic Server			
7878	12/1/2010 9:57:50 AM	IP Camera Not Connected	WW-NW5025 - 1.3M Cube	exacqVision Panasonic Server			
7809	12/1/2010 9:57:50 AM	IP Camera Not Connected	WW-NW5025 - 1.3M Cube	exacqVision Panasonic Server			
7783	12/1/2010 9:57:50 AM	IP Camera Not Connected	WW-NW5025 - 1.3M Cube	exacqVision Panasonic Server			
7740	12/1/2010 9:57:50 AM	IP Camera Not Connected	WW-NW5025 - 1.3M Cube	exacqVision Panasonic Server	12/3/2010 4:12:55 PM	MDG	Testing Ack
7705	12/1/2010 9:57:50 AM	IP Camera Not Connected	WW-NW5025 - 1.3M Cube	exacqVision Panasonic Server	12/3/2010 4:12:55 PM	MDG	Testing Ack
7703	12/1/2010 9:57:50 AM	IP Camera Not Connected	WW-NW5025 - 1.3M Cube	exacqVision Panasonic Server	12/3/2010 4:12:55 PM	MDG	Testing Ack
7702	12/1/2010 9:57:40 AM	IP Camera Not Connected	WW-NW5025 - 1.3M Cube	exacqVision Panasonic Server			
9195	12/1/2010 9:36:05 AM	IP Camera Not Connected	Toshiba P77161 - Sales	exacqVision Linux Server			
8799	12/1/2010 9:36:05 AM	IP Camera Not Connected	Toshiba P77161 - Sales	exacqVision Linux Server			

To ack an event, double-click its entry (or select Acknowledge Event from the Edit menu) to open the Acknowledge Event window. Enter an identification and comment about the ack, and then click OK. To modify an ack, double-click the event entry again (or select Edit Acknowledgement from the Edit menu) and modify the information in the pop-up window. To delete an ack, highlight its entry and select Delete Acknowledgement from the Edit menu.



Acknowledge Event

System: exacqVision Sony Server
Type: IP Camera Not Connected
Details: EX104 - E Main Entrance

Acknowledger:

Comment:

OK Cancel

NOTE: Acking an event does NOT remove it from the Active Events list; it simply means that the event has been noted. The event is removed from the Active Events list only when it has an actual Event End Time.

The All Events tab also includes the following columns:

- **Event End Time.** The date and time of the end of the event.
- **Address.** The IP address of the server on which the event occurred.

File Edit View Help										
Unacked Events Systems Active Events All Events Options										
E...	StartTime	Event End Time	Event Type ID	Event Details	Description	Address	Serial Number	Ack Timestamp	Ack Name	Ack...
9554	12/10/2010 9:36:40 ...	12/10/2010 9:36:40 AM	IP Camera Not Connected	AV8360 - 360 JPEG 3	exacqVision Arecont Server	192.168.100.50	00-19-D1-E2-12-92			
9553	12/10/2010 9:36:40 ...	12/10/2010 9:36:40 AM	IP Camera Not Connected	AV8360 - 360 JPEG 2	exacqVision Arecont Server	192.168.100.50	00-19-D1-E2-12-92			
9552	12/10/2010 9:36:40 ...	12/10/2010 9:36:40 AM	IP Camera Not Connected	AV8360 - 360 JPEG 1	exacqVision Arecont Server	192.168.100.50	00-19-D1-E2-12-92			
9551	12/10/2010 9:27:13 ...		IP Camera Not Connected	Input 1	exacqVision ACTi Server	192.168.100.23	00-1C-C0-B5-68-D1			
9550	12/10/2010 9:27:13 ...	12/10/2010 10:01:12 AM	IP Camera Not Connected	CAM7321 - Eng Cubes	exacqVision ACTi Server	192.168.100.23	00-1C-C0-B5-68-D1			
9549	12/9/2010 3:28:52 PM		IP Camera Not Connected	AV5105DN - 5M W Windows	exacqVision Arecont Server	192.168.100.50	00-19-D1-E2-12-92			
9548	12/1/2010 9:57:50 AM		IP Camera Not Connected	WV-NW5025 - 1.3M Cube	exacqVision Panasonic Server	192.168.100.21	ER0835001209			
9547	12/8/2010 4:47:32 PM		Storage Alarm	E:\	Dans Trunk Server	192.168.100.34	00-16-76-13-4D-D9			
9546	12/8/2010 4:54:17 PM		Video Loss	Input 12	Dans Trunk Server	192.168.100.34	00-16-76-13-4D-D9			
9545	12/8/2010 4:47:34 PM		Video Loss	Input 11	Dans Trunk Server	192.168.100.34	00-16-76-13-4D-D9			
9544	12/8/2010 4:54:17 PM		Video Loss	Input 4	Dans Trunk Server	192.168.100.34	00-16-76-13-4D-D9			
9543	12/9/2010 2:44:26 PM		IP Camera Not Connected	Axis M3011 Linux Test	Dans Trunk Server	192.168.100.34	00-16-76-13-4D-D9			

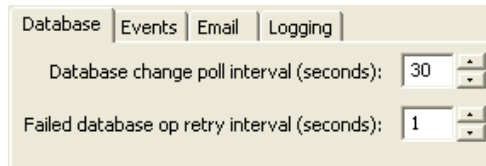


Options Tab

The Options tab allows you to modify eVEHM parameters and select which event types eVEHM monitors.

The Options tab contains the following columns:

- **Database.** This tab allows you to configure the following options:
 - **Database Change Poll Interval (Seconds).** This determines how often eVEHM checks the database for events.
 - **Failed Database Op Retry Interval (Seconds).** This determines how soon eVEHM tries to reconnect to the database server when a connection to the server is lost.

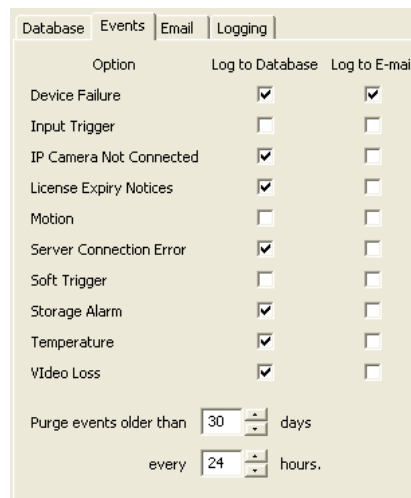


Database | Events | Email | Logging

Database change poll interval (seconds): 30

Failed database op retry interval (seconds): 1

- **Events.** This tab allows you to choose whether to create a log entry or send an email notification for each of the following events:
 - **Device Failure**
 - **Input Trigger**
 - **IP Camera Not Connected**
 - **License Expiry Notices**
 - **Motion**
 - **Server Connection Error**
 - **Soft Trigger**
 - **Storage Alarm**
 - **Temperature**
 - **Video Loss**



Option	Log to Database	Log to E-mail
Device Failure	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Input Trigger	<input type="checkbox"/>	<input type="checkbox"/>
IP Camera Not Connected	<input checked="" type="checkbox"/>	<input type="checkbox"/>
License Expiry Notices	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Motion	<input type="checkbox"/>	<input type="checkbox"/>
Server Connection Error	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Soft Trigger	<input type="checkbox"/>	<input type="checkbox"/>
Storage Alarm	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Video Loss	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Purge events older than 30 days every 24 hours.

Select the appropriate checkboxes for each event type. You can select one logging option, both logging options, or neither logging option for each event separately. The Events tab also allows you to configure events older than a certain number of days and configure how often those events are purged.

- **Email.** This tab allows you to configure the email notification feature. Enter the email server address, username, password, and timeout (in seconds). Also enter the information that will be included in the email, such as the name of the email's sender, the email's recipients, and the email's subject line. Also select the maximum number of events that can be included in a single email and how often email notifications should be sent (in minutes).

The screenshot shows the 'Email' configuration tab. It contains the following fields and controls:

- Server Address:
- Server Username:
- Server Password:
- Server Timeout (seconds): with up/down arrows
- Message From:
- Message To:
- Message Subject:
- Max Events per Message: with up/down arrows
- Message Interval (minutes): with up/down arrows

- **Logging.** This tab allows you to configure the maximum number of days of event information to include in the log file, which is saved to the eVEHM server and inaccessible from the eVEHM Client.

The screenshot shows the 'Logging' configuration tab. It contains the following field and control:

- Maximum Days to Log: with up/down arrows

Troubleshooting

An eVEHM log file created on the server daily in \Program Files\exacqVision\Health\logs (default location) can help you determine the cause of various issues. Following are common issues that can be identified using the log file:

Issue: eVEHM Server does not start.

Cause: Database connection error.

Log file entry: "Failed to open DB."

Resolution: Contact the database administrator for information about database credentials.

Issue: eVEHM Client shows no data.

Cause: eVEHM Server unable to write event data to database.

Log file entry: "Failed to update system status into DB" and "... server has gone away."

Resolution: Contact the database administrator for information about database credentials.

The following issue can also appear in the eVEHM Client:

Issue: This message appears: "Enterprise Health Manager is not connected to this database. Please contact your system administrator." The title bar of the eVEHM Client also displays the message "Enterprise Health Manager Server is not connected."

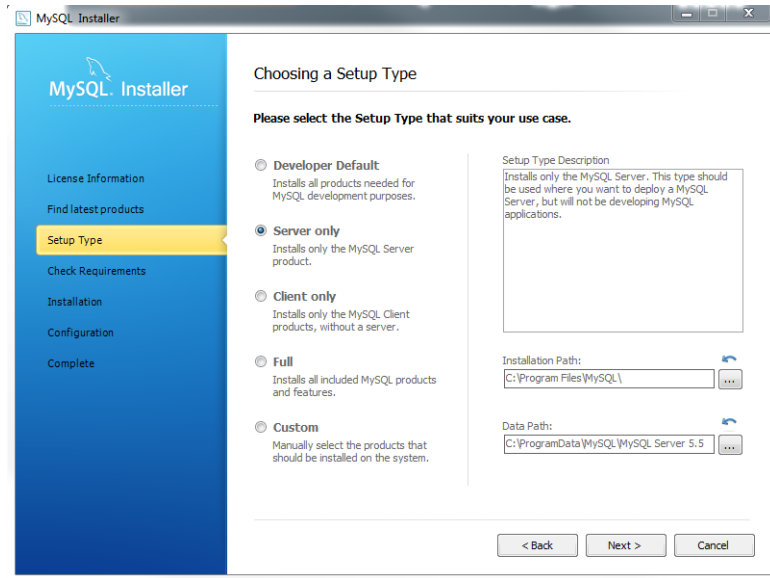
Cause: In normal operation, the eVEHM Server increments a heartbeat counter in the database. This message indicates the heartbeat counter is not changing.

Resolution: Contact the database administrator to determine why the eVEHM Server is not writing to the database.

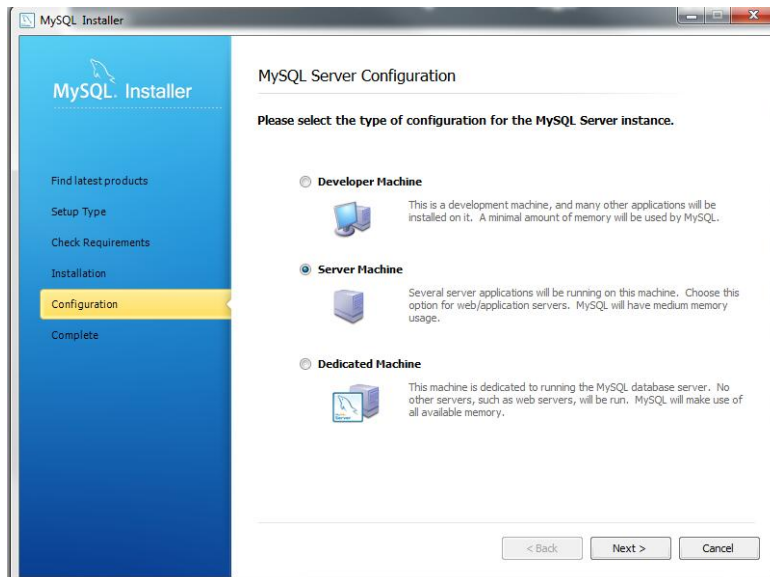
Appendix A – MySQL Installation Procedure

If eVEHM will connect to a new MySQL database, complete these steps before starting the procedure in the “Installation” section of this document:

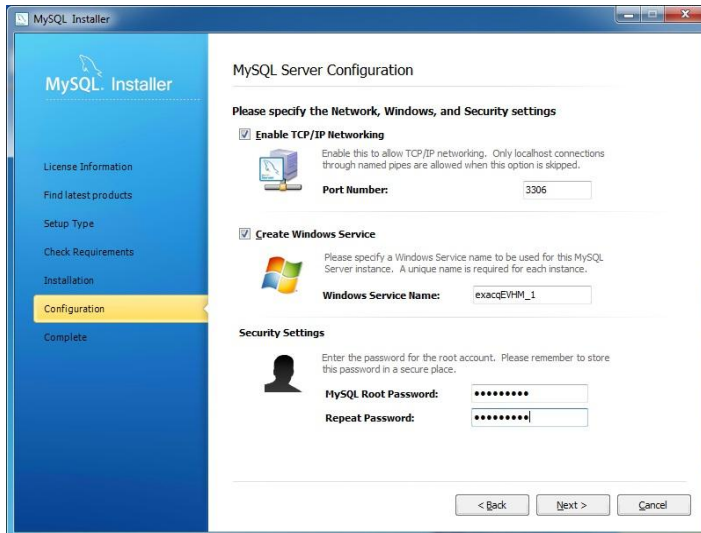
1. Download the most recent version of MySQL from www.mysql.com.
2. Run the MySQL installer. This might require additional software upgrades to support MySQL on your server.
3. On the Choosing a Setup Type screen, select Server Only or Full. (Do not select Client Only.)



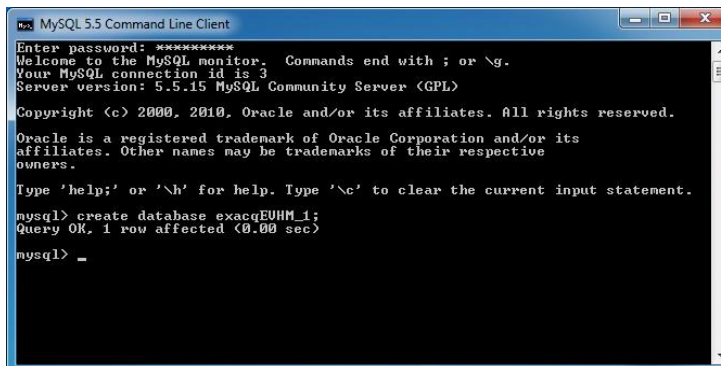
4. When prompted to select the type of configuration on the MySQL Server Configuration screen, select Server Machine. (Do not select Developer Machine.)



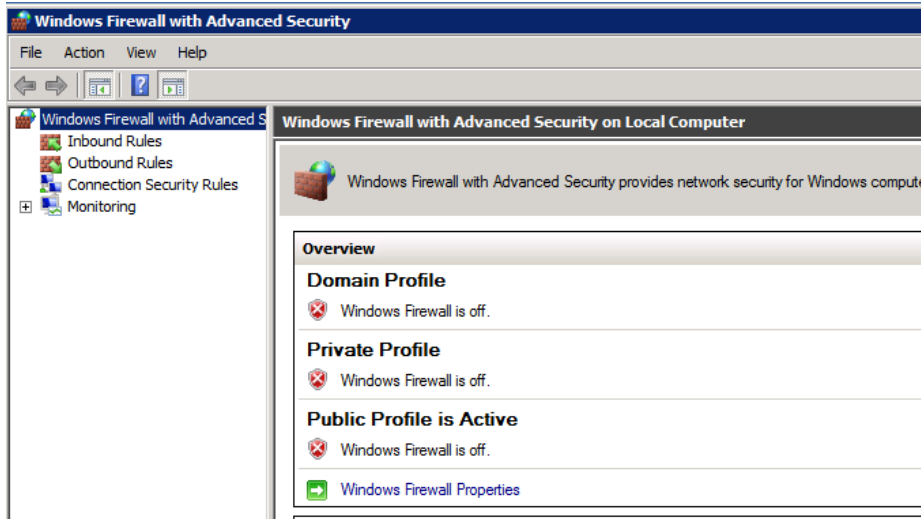
- When prompted to specify the network, Windows, and security settings on the MySQL Server Configuration screen, take note of all the information that you enter because you will need it in the next step and during eVEHM installation.



- After the MySQL installation is complete, create the eVEHM database in MySQL. To do this, complete the following steps:
 - Start the MySQL command line application.
 - Enter “create database xxxx,” where “xxxx” is the Windows service name created in step 5.
 - Type “exit” and press Enter to close the command line application.



7. By default, Windows Firewall blocks database access to remote users. Either disable Windows Firewall, or configure an exception for the SQL port.



8. By default, MySQL does not grant user access to remote clients. Add each user account to MySQL as follows:
- Start the MySQL command line application.
 - Enter the following:

grant all privileges on [dbname].* to [user]@[IP address] identified by '[Password]';

- [dbname]** is the database name created in step 5.
- [user]** is either the database username created in step 5, or the first of each username to be created.
- [IP address]** is the IP address of the user. If multiple IP addresses are possible (such as with DHCP), use the % wildcard symbol as shown here:

```
MySQL 5.5 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 4
Server version: 5.5.15 MySQL Community Server (GPL)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> grant all privileges on exacqEUHM.* to user@'192.168.%' identified by 'REallyStr@ngPASSWORD';
Query OK, 0 rows affected (0.00 sec)

mysql> _
```

- [Password]** is the database password of the [user] account.

NOTE: The special characters (dot-asterisk, apostrophes, and semicolon) are all required. If a “Query OK” message is not received after pressing Enter, the privilege was not added.

9. Continue with the procedure in the “Installation” chapter of this document.

Appendix B – Installation Notes

Creating a DSN. In a Windows deployment where the database backend will be SQL server, the database connection will be via ODBC. Before installing either the Client or the Server on a computer, a data source name (DSN) must be created. This DSN is used to inform both eVEHM Server (evHealthServer.exe) and eVEHM Client (evClientServer.exe) where to find the database. Creating a DSN is done via Start->Settings->Control Panel->Administrative Tools->Data Sources (ODBC). If this computer will run the eVEHM Server, ensure that the DSN created is a System DSN, not a User DSN. This is selected on the first tab of the ODBC Data Source Administrator dialog.

Service Control Manager. The Windows eVEHM Server installer registers evHealthServer as a service. It sets the recovery operations to retry the service first and then reboot the system upon service failure. These recovery options can be edited using Windows Service Control Manager (Start->Run->services.msc). There is no dependency set against the SQL Server because it is possible that the SQL Server will be running on a different computer. Upon startup, the eVEHM Server will continue trying to connect to the SQL Server periodically until it successful.

eVEHM Client Database Permissions. The eVEHM Client user must have database credentials giving permission for certain operations:

For true read only access to the data,
SELECT ON [healthdbname].*

For the ability to acknowledge alarms
SELECT, INSERT, UPDATE, DELETE ON [healthdbname].EVH_Acks

For the ability to add/remove systems
SELECT, INSERT, UPDATE, DELETE ON [healthdbname].EVH_Systems

For the ability to change settings
SELECT, INSERT, UPDATE, DELETE ON [healthdbname].EVH_Options

If a user without sufficient permissions attempts an operation, a message box will be displayed containing the SQL error from the database.

Server Database Configuration. The eVEHM Server always reads evHealthServer.ini from its current directory. If the INI file is missing or invalid, the service defaults to a SQLite database evHealth.db in its immediate directory. The INI file is expected to contain the following:

- Group "[DatabasePrefs]".
- Required property "Engine" is "SQLite", "ODBC", or "MySQL".
- Required property "Name" is the relative/full path to a SQLite database file, an ODBC DSN, or a MySQL schema name.
- Property "Username" is ignored by SQLite, optional for ODBC, and required for MySQL.
- Property "Password" is ignored by SQLite, optional for ODBC, and required for MySQL.
- Property "Hostname" is ignored by SQLite and ODBC, and required for MySQL.

- Property "Port" is ignored by SQLite and ODBC and optional for MySQL (the default MySQL port 3306 is hard-coded in the service).

Client Database Configuration. The eVEHM Client must use the same database as the eVEHM Server. The Client is pointed to that database in the following order:

- Command Line parameters:
 - /l, --ini=<str> INI file to use, defaults to "evHealthServer.ini"
 - /s, --sqlite=<str> sqlite database to open, defaults to "evHealth.db"
 - /m, --mysql=<str> mysql database to open, defaults to "evHealth"
 - /o, --odbc=<str> odbc database to open, defaults to "evHealth"
 - /u, --username=<str> username for database connection (not used for SQLite)
 - /p, --password=<str> password for database connection (not used for SQLite)
 - /a, --address=<str> mysql host address or name (not used for SQLite or ODBC)
 - /t, --port=<str> mysql host port or name (not used for SQLite or ODBC)
- evHealthServer.ini in the current directory with the same format specified for the eVEHM Server.
- Windows Registry entries in HKEY_CURRENT_USER\Software\evHealthClient. In Linux or MacOS, the /Conf or /Pref files are used.
- An SQLite database called evHealth.db in the current directory.
- Open blank and force the user to 'File | Open'.

Server Command Line Parameters. The Windows Server installer will invoke evHealthServer as appropriate to register the eVEHM Server as a service and update database schema as necessary. A Linux eVEHM Server installation must perform these operations manually.

- **evHealthServer /registerService /displayName="exacqVision Health Service" --** (Windows) Service recovery options are configured and sets the description.
- **evHealthServer /unregisterService --** (Windows) Unregister service and exit.
- **evHealthServer --daemon --pidfile=/var/run/whateveryouwant.pid --** (Linux) Run as daemon.
- **evHealthServer /updatedb (Windows), evHealthServer -updatedb --** (Linux) The database is validated at startup, and any necessary changes are attempted. If any change fails (for example, if the database user doesn't have change permissions), regardless of whether the field is *required* or *optional*, an error code (non-zero) is returned, and a short error message is returned on stdout. Otherwise, a success code (zero) is returned.
- **evHealthServer /writeschema=FILENAME (Windows), evHealthServer --writeschema=FILENAME --** (Linux) The database is validated at startup, and the SQL statements for any necessary changes are written to the specified file.