

# Covalent SNMP Conductor Quick Start Guide

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Please read the licenses included in the licenses directory of the distribution before installing the software.

## Introduction

This quick start guide includes instructions for installing the Covalent SNMP Conductor module with the installer provided by Covalent. For more detailed information about installation and configuration, please read the *Covalent SNMP Conductor User Guide*. If you want to install this product manually, refer to "Appendix A: Manual installation" in the user guide.

## Installation requirements

To install Covalent SNMP Conductor 1.0, you need:

- 1 The Apache HTTP (Web) server.

Use either the Apache binary distribution included with Covalent SNMP Conductor (recommended)

or

Use Covalent SNMP Conductor with your existing Apache installation.

To verify whether your current installation is suitable for adding Covalent SNMP Conductor, run the `httpd -l` command in the `apache/bin` directory and verify that `mod_so.c` is present in the list that displays.

**NOTE:** If you have an Apache installation which is EAPI enabled and older than Apache 1.3.9, you may encounter problems linking our module to your existing Apache installation. You need to upgrade prior to installing the Covalent SNMP Conductor module.

- 2 The X Window System for the graphical user interfaces. A text-based user interface is also provided.
- 3 The gzip decompression utility.

## Downloading and unpacking Covalent SNMP Conductor

- 1 If you do not yet have the Covalent SNMP Conductor 1.0 distribution, purchase a full release of Covalent SNMP Conductor at:

<http://www.covalent.net/products/snmp>

After your purchase is processed, you will receive an e-mail link to the download area.

- 2 Unpack Covalent SNMP Conductor. To unpack the distribution, execute:

```
gunzip -c Conductor-1.*-1.3.*-platform.tar.gz | tar xf -
```

## Installing Covalent SNMP Conductor

### Installing Covalent SNMP Conductor with the Apache binary (recommended)

- 1 Start the installation program.

If you are logged in as root, execute the following:

<i>For graphical mode</i>	<i>For text mode</i>
<pre>cd Conductor-1.* ./setup</pre>	<pre>cd Conductor-1.* ./setup --textmode</pre>

If you **are not** logged in as root, execute the following to log in as root and start the installation program:

<i><b>For graphical mode</b></i>	<i><b>For text mode</b></i>
<pre>xhost +servername su root cd Conductor-1.* ./setup</pre>	<pre>su root cd Conductor-1.* ./setup --textmode</pre>

**NOTE:** If you are logged in as a non-root user, refer to the "Troubleshooting" section in the *Covalent SNMP Conductor User Guide*.

- 2 Follow the instructions in the user interface to install Covalent SNMP Conductor. If you use the default settings, Covalent SNMP Conductor will be installed in:

```
/usr/local/raven/module/conductor1.0
```

and Apache in:

```
/usr/local/apache.
```

You can choose between installing the Covalent Apache binary or linking Covalent SNMP Conductor dynamically to your existing Apache installation.

- 3 The installer will ask you which version of SNMP you want to install. Check the documentation of your management application to verify which versions are supported.

SNMP versions 1 and 2c send information plaintext over the wire. SNMP version 3 provides encryption to prevent unauthorized access.

If you install SNMP versions 1 and v2c, you should be aware that the community string that protects access to your information is set to 'public'. If you want to limit access to your SNMP module, you should change the community string in the `snmpd.conf` file in the `raven/module/conductor1.0/conf` directory. This only gives very limited protection as communication is not encrypted in SNMP versions 1 and 2c. We recommend closing the default SNMP ports (161 and 162) on your firewall if you are concerned about unauthorized access to your SNMP agents.

- 4 If you selected to install SNMPv1/v2c, you need to enter your network address and subnetmask to enable remote access to your Covalent SNMP Conductor module.

The network address is an IP number representing the network in which you are operating. The subnet mask indicates which part of the IP address denotes the network and subnet, and which part denotes the host ID.

For example, the network address 10.0.0.0 combined with the subnetmask 255.255.255.0 indicates that the network has IP addresses ranging from 10.0.0.1 to 1.0.0.255.

**NOTE:** If you do not enter your network address and subnet mask, your SNMP agent will only be accessible from the localhost.

- 5 If you selected to install SNMPv3, you must enter an SNMPv3 password.

**NOTE:** The password must be at least eight characters long.

- 6 When the Installation Program finishes copying files, the Congratulations! screen displays indicating that you have successfully installed Covalent SNMP Conductor.

## Adding SNMP Conductor to your existing Apache installation

- 1 To add Covalent SNMP Conductor to an existing Apache server, verify that your installation supports DSOs. To verify, if you're using a standard (non-Covalent) Apache installation, execute:

```
apache/bin/httpd -l
```

The result of this command should include `mod_so c`. If this module is not included in your current Apache installation, you must recompile the Apache server with the `--enable-module=so` flag added to the `./configure` command.

- 2 Run `./setup` according to the installation procedures in the previous section, with following exceptions (steps 3 through 5 below).
- 3 When the Install Apache screen displays, choose to add Covalent SNMP Conductor to your existing Apache installation.
- 4 When prompted, enter the path to the Apache configuration file. The default path to the Apache configuration file is:  
`usr/local/apache/conf/httpd.conf`
- 5 When prompted, enter the appropriate commands to start and stop your server. The command to start a standard (non-Covalent) Apache configuration is:

```
/path/to/apache/bin/apachectl start
```

The command to start a Covalent Apache installation is:

```
/path/to/apache/bin/httpsdctl start
```

# Starting and stopping your server

## Starting your server

If you installed the Apache binary included with Covalent SNMP Conductor, to start your Apache Web server execute:

```
apache/bin/httpsdctl start
```

The output should be:

```
httpsdctl start: httpd started
```

**NOTE:** Refer to the "Troubleshooting" section of the *Covalent SNMP Conductor User Guide* if you have problems starting your server.

## Stopping your server

To stop your Apache Web server execute:

```
apache/bin/httpsdctl stop
```

# Testing your installation

If the installation was successful, you are now ready to test the functionality of your Covalent SNMP Conductor module.

## Testing if you installed as a root user

The following steps only apply if you installed Covalent SNMP Conductor as a root user. If you did *not* install as a root user, skip these steps and proceed to "Testing if you installed as a non-root user" on page 7.

- 1 Start your Apache Web server.

The output should be `httpdctl start: httpd started` for a standard (non-Covalent) Apache installation, or `httpsdctl start: httpd started` for a Covalent Apache installation.

- 2 To test SNMPv1 enter the following, where *public* is your community string:

```
raven/module/conductor1.0/bin/snmpwalk -v 1 localhost public
```

The expected output for this command looks like this:

```
system.sysDescr.0 = FreeBSD localhost 4.1-RELEASE FreeBSD 4.1- Fri Jul
i386
system.sysObjectID.0 = OID:
enterprises.covalent.covalentGenericMIB.ctGenericOSoid.255
system.sysUpTime.0 = Timeticks: (2340) 0:00:23.40
system.sysContact.0 = Covalent SNMP Conductor <webmaster@localhost.com>
system.sysName.0 = localhost
system.sysLocation.0 = Apache Server with Covalent SNMP Conductor
...
```

- 3 To test SNMPv2c enter the following, where *public* is your community string:

```
raven/module/conductor1.0/bin/snmpwalk -v 2c localhost public
```

The expected output for this command is the same as for testing SNMPv1.

- 4 To test SNMPv3 enter the following, where *password* is the password you established while installing Covalent SNMP Conductor:

```
raven/module/conductor1.0/bin/snmpwalk -v 3 -l authNoPriv -u
covalent -a MD5 -A password localhost
```

**NOTE:** The default user after installing Covalent SNMP Conductor is called *covalent*.

The expected output for this command is the same as for testing SNMPv1.

- 5 Stop your Apache Web server.

## Testing if you installed as a non-root user

- 1 Start your Apache Web server.

The output should be `httpdctl start: httpd started for a standard (non-Covalent) Apache installation`, or `httpsdctl start: httpd started for a Covalent Apache installation`.

- 2 To test SNMPv1 enter the following, where *public* is your community string:

```
raven/module/conductor1.0/bin/snmpwalk -p 1610 -v 1 localhost
public
```

The expected output for this command looks like this:

```
system.sysDescr.0 = FreeBSD www.localhost 4.1-RELEASE FreeBSD 4.1- Fri
Jul i386
system.sysObjectID.0 = OID:
enterprises.covalent.covalentGenericMIB.ctGenericOSoid.255
system.sysUpTime.0 = Timeticks: (2340) 0:00:23.40
system.sysContact.0 = Covalent SNMP Conductor <webmaster@localhost.com>
system.sysName.0 = localhost
system.sysLocation.0 = Apache Server with Covalent SNMP Conductor
...
```

- 3 To test SNMPv2c enter the following, where *public* is your community string:

```
raven/module/conductor1.0/bin/snmpwalk -p 1610 -v 2c localhost
public
```

The expected output for this command is the same as for testing SNMPv1.

- 4 To test SNMPv3 enter the following, where *password* is the password you established while installing Covalent SNMP Conductor:

```
raven/module/conductor1.0/bin/snmpwalk -p 1610 -v 3 -l
authNoPriv -u covalent -a MD5 -A password localhost
```

**NOTE:** The default user after installing Covalent SNMP Conductor is called *covalent*.

The expected output for this command is the same as for testing SNMPv1.

- 5 Stop your Apache Web server.

**For more information, please refer to the Covalent SNMP Conductor User Guide at:**

**<http://www.covalent.net/support/snmp>**