



Security Removable Media Manager

# **secRMMCentral** **for AD domain** **environments**

Version 9.11.27.0

(April 2024)

*Protect your valuable data*



# secRMMCentral Administrator Guide

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Squadra Technologies secRMMCentral Administrator Guide  
Created - September 2011

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## Introduction

### Overview

secRMMCentral lets you collect the secRMM events from all the computers in your network into a central event log on a single computer. This is useful for environments that are not running Microsoft Operations Manager (or another similar systems management product) or if you need to implement fault-tolerant functionality for your removable media events. At a bare minimum, combined with the secRMM Excel AddIn, you can use secRMMCentral to centrally monitor and manage the secRMM product in your environment.

The remaining subsections in this section can be skipped and you can proceed directly to the “Installation using Active Directory” section if you are already familiar with the Microsoft Event Forwarding technology.

### Architecture

#### Microsoft Event Forwarding

secRMMCentral is an implementation of the Microsoft Event Viewer Event Forwarding/Subscription technology. The Microsoft documentation uses the term “event collector” as the Windows computer that will receive the events (i.e. the central event log). The computers that forward the events (to the “event collector”) are called the “event source” computers. The “event source” computers are running the secRMM product and generating events into their local secRMM event log. The Microsoft Event Forwarding/Subscription technology relies upon the Microsoft WinRM technology. The section below (titled “Install/Configure WinRM”) will guide you through installing Microsoft WinRM if it is not already installed in your environment.

#### *secRMMCentral Event Log*

For secRMMCentral, we are going to create a new event log named secRMMCentral on the “event collector” computer. The event log named secRMMCentral will receive all the secRMM events from the “event source” computers. The “event collector” can act as both an “event collector” and an “event source” so if an end user uses the “event collector” computer to copy files to a removable media device, these events will be collected just like any other “event source” computer. Creating the secRMMCentral event log is done using a standard Windows Installation which will be downloaded from the Squadra Technologies web site.

#### *secRMMCentral Event Log Subscription*

Once the secRMMCentral event log is created, we will create an “event log subscription” on the “event collector” computer. The “event log subscription” tells the “event collector” computer (actually, the service running on the “event collector” computer named “Windows Event Collector” [Wecsvc]) which “event source” computers will participate, from what event log to collect events from (in our specific case, this will be secRMM), what event log to put them in (in our specific case, this will be secRMMCentral) and how the event log data will be forwarded (either push [called Source-initiated] or pull [called Collector-initiated]) to the “event collector” computer.

## *Types of Event Log Subscriptions*

Microsoft lets you associate the “event source” computers to the “event collector” computer in two different ways:

1. Source-initiated subscriptions
2. Collector-initiated subscriptions

When you define a Source-initiated subscription, you use an Active Directory (AD) Group Policy Object (GPO) to tell the event log subscription on the “event collector” computer what computers are the “event source” computers. This is recommended if you have many computers in your network and they all have secRMM deployed on them. The Source-initiated subscription uses a “push” architecture.

When you define a Collector-initiated subscription, you manually add the computers to the event log subscription on the “event collector” computer. This is recommended if you only have a small number of computers in your environment. The Collector-initiated subscription uses a “pull” architecture. For the collector-initiated subscription, there is a configuration difference based on if your computers are in a domain or workgroup. We will point out these configuration differences in the installation steps below.

## *Microsoft Event Forwarding references*

Before moving on to the installation, it might be beneficial to first read the following Microsoft links to increase your understand of the Microsoft event forwarding technology:

Configure Computers to Forward and Collect Events at:

<http://technet.microsoft.com/en-us/library/cc748890.aspx>

## *Microsoft WinRM Overview*

### *Supported Operations System Versions for WinRM*

Windows Server 2003 R2, Windows Vista with Service Pack 1 (SP1), Windows 7, Windows 8, Windows Server 2008, Windows Server 2008 R2, Windows 2012, or Windows 2012 R2 can be the “event collector” computer.

Windows XP with Service Pack 2 (SP2), Windows Server 2003 with Service Pack 1 (SP1), Windows Server 2003 with Service Pack 2 (SP2), Windows Server 2003 R2, Windows Vista, Windows Vista with SP1, Windows 7, Windows 8 or Windows Server 2008 can be “event source” computers.

**Note:** Windows Vista, Windows 7 and Windows 2008 come with WinRM 2.0 as part of the Operating System installation. Windows 8 uses WinRM 3.0. WS-Management 2.0 is not installed by default for computers running on Windows XP with SP2, Windows Server 2003 with SP1, Windows Server 2003 with SP2, or Windows Server 2003 R2, so you must install WS-Man 2.0 before these computers can become “event source” computers. To get the download for WS-Management 2.0 go to [Windows Management Framework Core package \(Windows PowerShell 2.0 and WinRM 2.0\)](#).

## *Microsoft versions of WinRM*

If you are using the older Operating Systems (Windows XP with SP2, Windows Server 2003 with SP1, Windows Server 2003 with SP2, or Windows Server 2003 R2) and have already deployed WinRM 1.1, you need to decide whether you want to upgrade the WinRM 1.1 deployment to WinRM 2.0 first. You can choose not to upgrade to WinRM 2.0 (from WinRM 1.1), just be sure you enable the WinRM “EnableCompatibilityHttpListener” property when you configure WinRM in the section below. WinRM1.1 used (uses) ports 80 and 443 while WinRM2.0 uses 5985 and 5986 (for HTTP and HTTPS respectively). This impacts the WinRM service listener as well as the Windows Firewall settings. Compatibility between WinRM 2.0 and WinRM 1.1 is possible by using WinRM compatibility listeners (please read <http://blogs.msdn.com/b/wmi/archive/2009/07/22/new-default-ports-for-ws-management-and-powershell-remoting.aspx> ). Note also that WinRM 2.0 requires the .Net 2.0 sp1 framework (at a minimum).

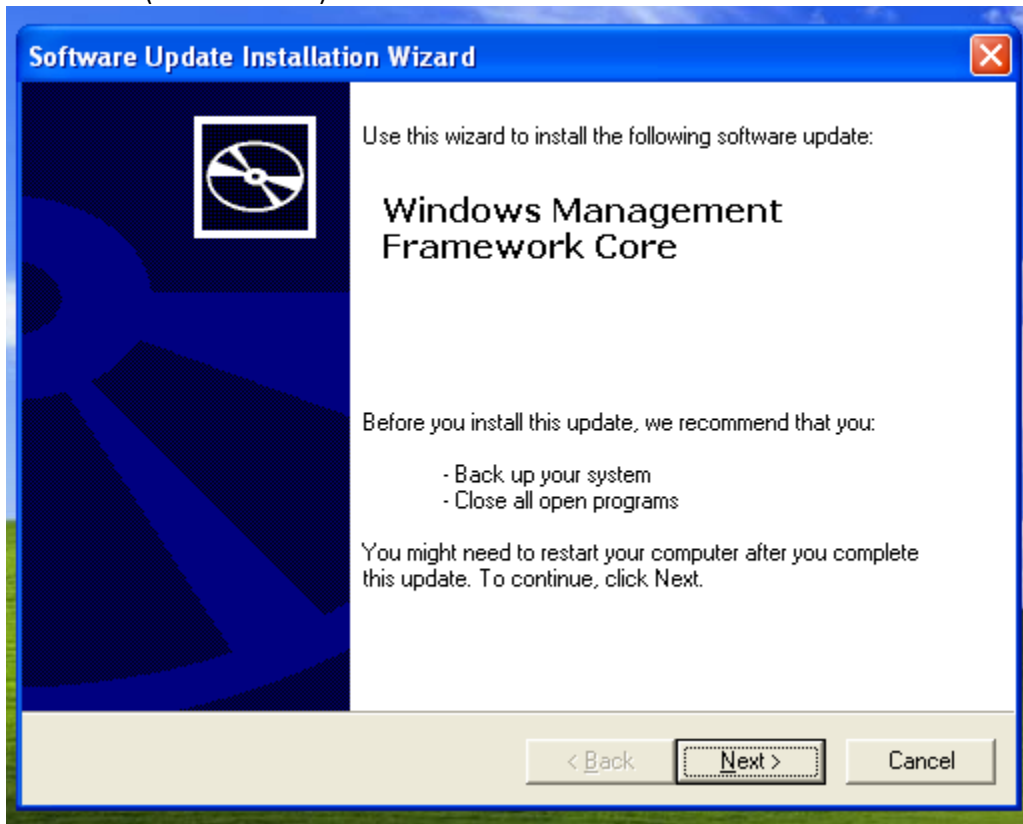


Figure 1 - Install WinRM 2.0 on older Windows OS

Lastly, Windows 8 and better are using WinRM 3.0. WinRM 3.0 and WinRM 2.0 appear to coexist without any need for special configuration.

### *Detecting which version of WinRM is installed*

WinRM service is running

If the WinRM service is running, from an elevated command prompt, type: **winrm id** and then look in the table below using the first part of the ProductVersion line in the output.

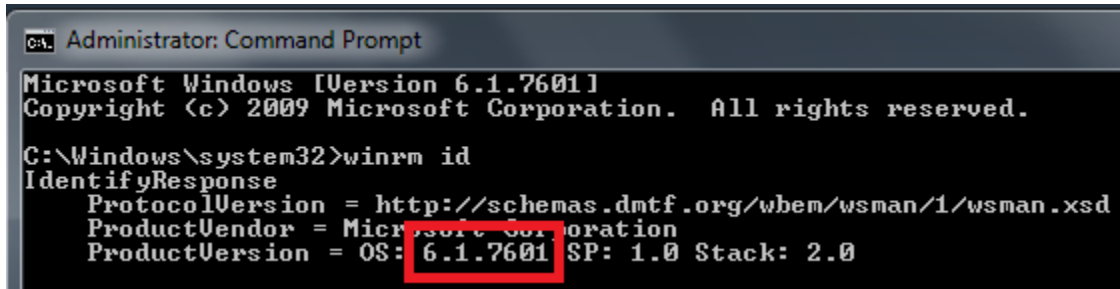


Figure 2 - Checking the WinRM version using WinRM command

Note: If you get an access denied error when you issue winrm id (see screen shot below), be sure that the Administrator userid you are using has a password. Also, issue the following command so that your local Administrator account can get past User Access Control (UAC):

```
reg add HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\System /v  
LocalAccountTokenFilterPolicy /t REG_DWORD /d 1 /f
```

If you still get an error after the steps above, then you should go to the section below titled “Install/Configure WinRM” to issue the command **winrm quickconfig** since it is likely that winrm has not yet been configured on the computer.

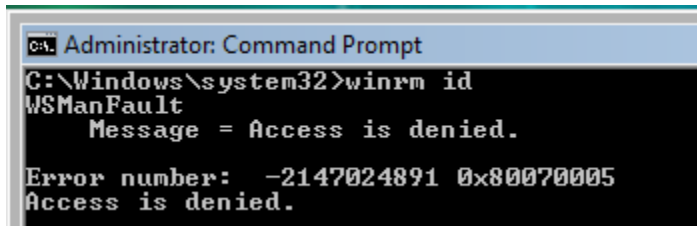


Figure 3 - Access denied error issuing WinRM command due to UAC

### WinRM service is not running

If the WinRM service is not currently running, you can determine the version of WinRM installed on your system by checking the version of the file **%Windir%\System32\wsmsvc.dll**. You need to use Windows Explorer to do this. Using Windows Explorer, right mouse click on **%Windir%\System32\wsmsvc.dll** and select the Properties menu item. In the tabbed Properties window, click the Details tab. Look at the Property named “Product version”. The table below outlines the WinRM version number that is indicated by the various possible file version numbers of **%Windir%\System32\wsmsvc.dll**:

Version number for %Windir%\System32\wsmsvc.dll	WinRM version
5.2.3790.2075	0.5
6.0.6000.16386	1.0
5.1.2600.3191	1.1
5.2.3790.2990	1.1



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5.2.3790.4131	1.1
6.0.6001.18000	2.0
6.0.6002.18111	2.0
6.1.7600.16385	2.0
6.1.7601.17514	2.0
6.2.8102.0	3.0
10.0.14393.479	3.0

### *Microsoft WinRM references*

Before moving on to the installation, it might be beneficial to first read the following Microsoft links to increase your understanding of the Microsoft WinRM technology:

Installation and Configuration for Windows Remote Management at:

[http://msdn.microsoft.com/en-us/library/aa384372\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/aa384372(v=vs.85).aspx)

Details on the changes in Windows Remote Management behavior in Windows Server 2008 R2 and Windows 7

[http://technet.microsoft.com/en-us/library/ee922649\(Ws.10\).aspx](http://technet.microsoft.com/en-us/library/ee922649(Ws.10).aspx)

### *Comments about WinRM*

We chose to use the Microsoft Windows Event Forwarding technology since it comes as a core component of the newer Microsoft Operating Systems. The steps to setup the Event Forwarding Technology are not difficult. We wish that could be said of WinRM. WinRM is not difficult to install if your environment is entirely comprised of the newer Microsoft Operating Systems and you are running in a domain environment. In this case, you can simply use Active Directory Group Policy to install and configure WinRM. Where it becomes more challenging is when you also are still running the older Microsoft Operating Systems and have already deployed WinRM version 1.1. Installing WinRM in a non-domain (i.e. WORKGROUP) environment also requires additional steps. In this document, we give you all the commands you need to handle a mixed WinRM versioned environment and for a non-domain environment. All that said, there are security considerations that need to be made. While we make every attempt to answer these questions in this documentation, you will need to factor in the security policies of your environment and weave them into the steps in the Installation sections below. Squadra Technologies is always willing to provide free technical support during the secRMMCentral deployment so if you have questions and need assistance, please call us.

With all that said, you might be somewhat hesitant about using WinRM. However, the advantages of using this technology, combined with Windows Event Forwarding technology make it attractive to implement. First off, since these technologies come as part of the OS, there is no agent needed (although running the WinRM service could be argued that it is an agent). The solution is very scalable and the collector is capable of supporting 100s or 1000s of computers. If you are working in a domain, Microsoft has made the configuration available in Active Directory Group Policy. This is useful in a large

deployment. Finally, a huge benefit of the Microsoft Event Forwarding technology is for systems that are mobile (i.e. sometimes on the network and sometimes not on the network), the Windows Event Forwarding technology will pick up all the events once the system comes onto the network.

### Installation using Active Directory

The following sections describe how to deploy WinRM, Microsoft Event Forwarding and secRMMCentral. These 3 components are all inter-related to allow you to forward the secRMM events from all the computers in your environment into one computers event log (this event log will be named secRMMCentral and the computer is the “event collector”).

Before you start, you will need to choose a computer in your environment that will act as the “event collector” (i.e. the computer that will receive all the forwarded secRMM events). This computer is where you will install secRMMCentral.

Since the Microsoft Event Forwarding technology relies on WinRM. WinRM must be installed and configured on both the “event collector” and “event source” computers. These steps are outlined below.

**NOTE:** If your domain controller is not yet on W2008 and you do not see the “Windows Remote Management” System Service in step 1 below, you can download the Windowsremotemanagement.adm from <http://support.microsoft.com/kb/936059>.

### Create the AD GPO

Using the Group Policy Management MMC, create a Group Policy Object with the following 4 settings:

1. Set the WinRM service to auto start:
  - A. In the Group Policy Editor, navigate to Computer Configuration \ Policies \ Windows Settings \ Security Settings \ System Services.
  - B. Double click Windows Remote Management (WS-Management)
  - C. Set it to Automatic.

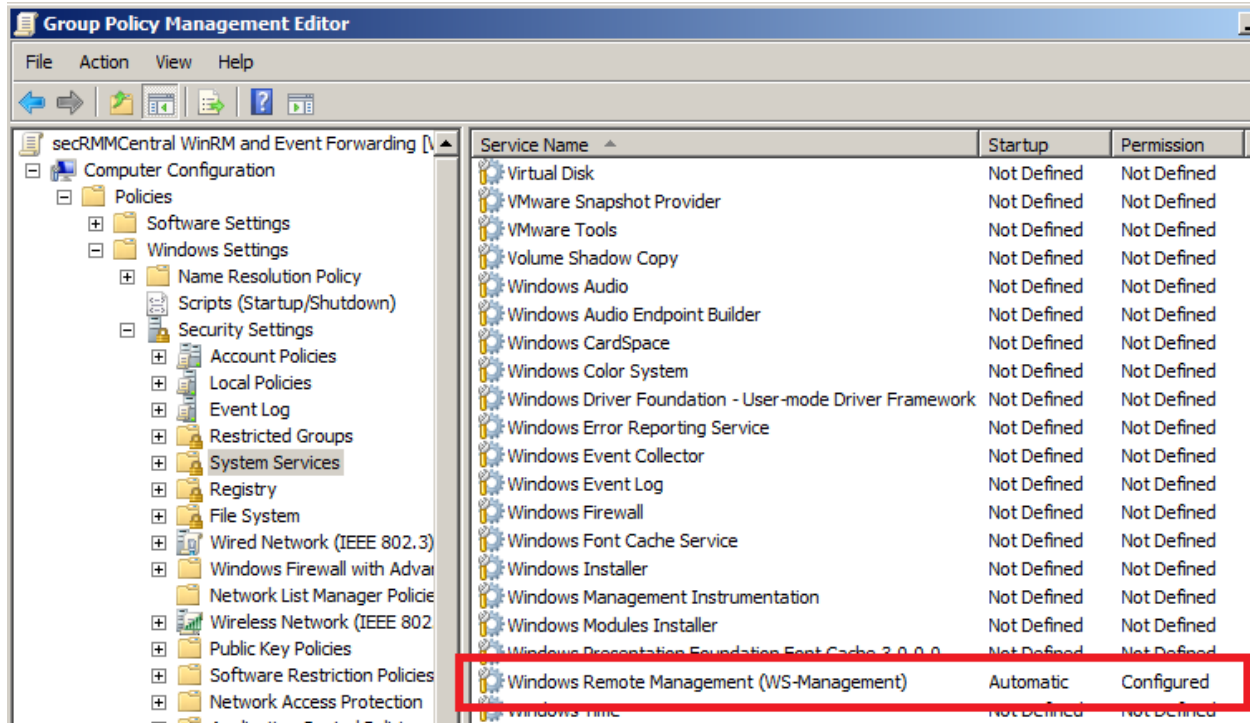


Figure 4 - Group Policy Object for WinRM Service

## 2. Create the WinRM listener:

- In the Group Policy Editor, navigate to Computer Configuration \ Policies \ Administrative Templates \ Windows Components \ Windows Remote Management (WinRM) \ WinRM Service.
- Double click:
  - For pre-W2012: Allow automatic configuration of listeners
  - For W2012: Allow remote server management through WinRM
- Set the IPv4 and IPv6 filters to \* (an asterisk).
- [Optional] If you have any older Windows systems using WinRM 1.1 AND they are still using the old WinRM service listener port numbers (i.e. 80 and 443), then you should also enable "Turn On compatibility HTTP[S] Listener"

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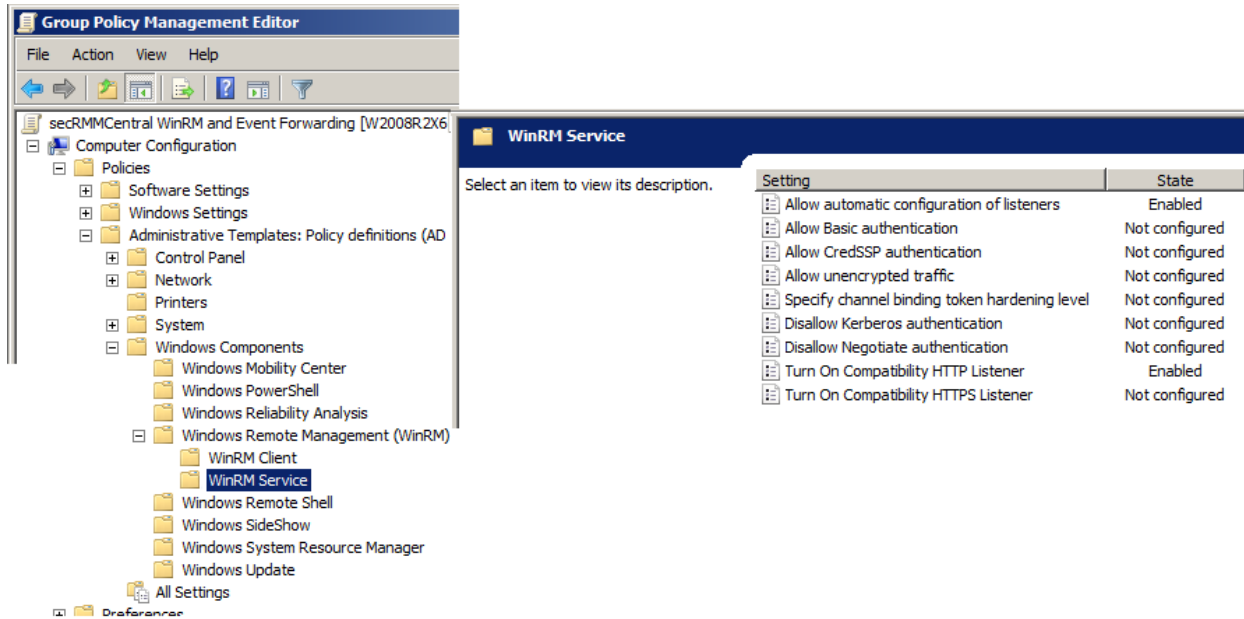


Figure 5 - Group Policy Object for WinRm Service Listener Component

3. Create a firewall exception for WinRM:
  - A. In the Group Policy Editor, navigate to Computer Configuration \ Policies \ Windows Settings \ Security Settings \ Windows Firewall with Advanced Security \ Inbound Rules.
  - B. Create an Inbound Rule for WinRM for port 5985. Select the "Predefined" radio button and select the "Windows Remote Management" in the drop-down listbox.

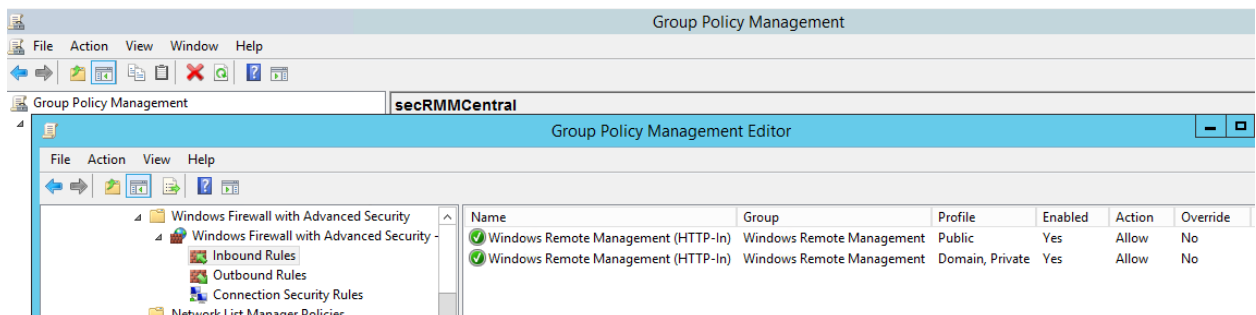


Figure 6 - Group Policy Object for WinRM (Remote Windows Management Instrumentation)

Note: The firewall rule you create in the GPO (above ) equates to the command line:

```
netsh advfirewall firewall add rule name="Windows Remote Management (HTTP-In)"  
dir=in action=allow service=any enable=yes profile=any localport=5985 protocol=tcp
```

4. Specify the “event collector” computer for the “event source” computers
  - A. In the Group Policy Editor, navigate to Computer Configuration \ Policies \ Administrative Templates \ Windows Components \ Event Forwarding.
  - B. Double click either (whichever is listed in your environment):
    - a. Configure target subscription manager
    - b. Configure the server address
  - C. Click the Enable button.
  - D. Click the Show button (to the left of the button, it says subscription managers)
  - E. Add the value Server=*TheCollector.YourDomain.com*
    - a. Where *TheCollector.YourDomain.com* is the FQDN name of the “event collector” computer in your environment
    - b. **NOTE: Make sure you type in the “Server=” text**

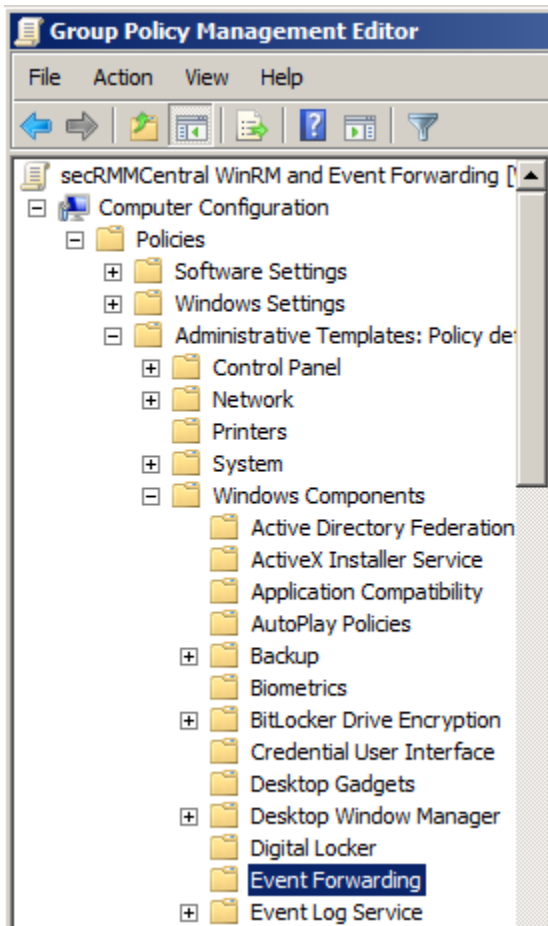


Figure 7 - Group Policy Object for the event forwarding subscription

Al. / BM11.5. / 6. / li. /

6. iii. (a)  $\frac{1}{2}$  (b)  $\frac{1}{2}$  (c)  $\frac{1}{2}$  (d)  $\frac{1}{2}$

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Config. 1: test 16, baseline. Model: 16, baseline. Model: 16, baseline. Model: 16, baseline.

6 10 11 5005 / 6 1 10 11 1000

TABLE 1. *ESR spectra of ESRN-6000 and ESRN-6000-10000*

### Configure the “event collector” computer

To configure the “event collector” computer:

1. You must login to the “event collector” computer using an Administrators account.
2. Open a Command Prompt Window in Administration Mode
  - a. At the command prompt, type **winrm qc**
  - b. At the command prompt, type: **wecutil qc**

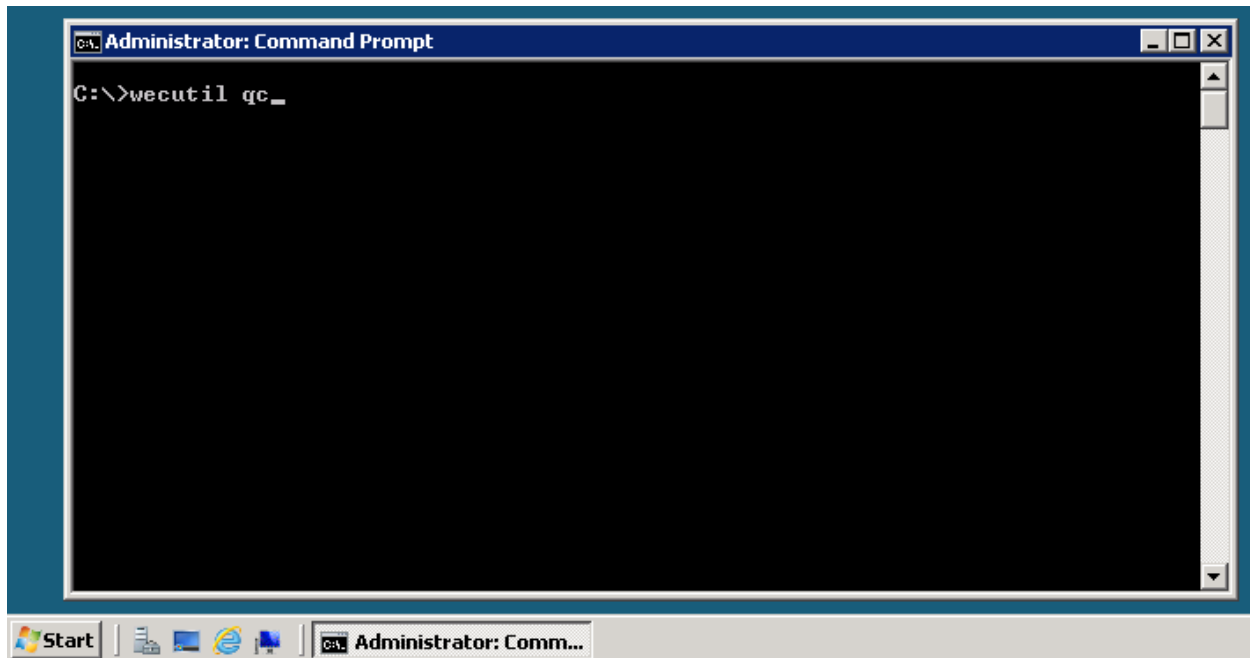


Figure 9 - Issuing wecutil qc

3. Respond Y if you get the prompt in the screen shot below.

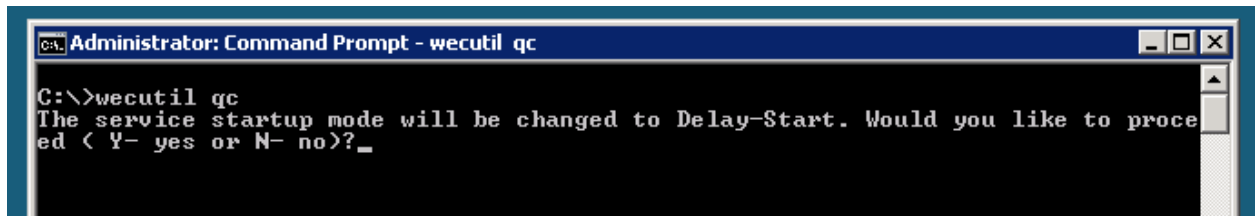


Figure 10 - Responding to wecutil qc

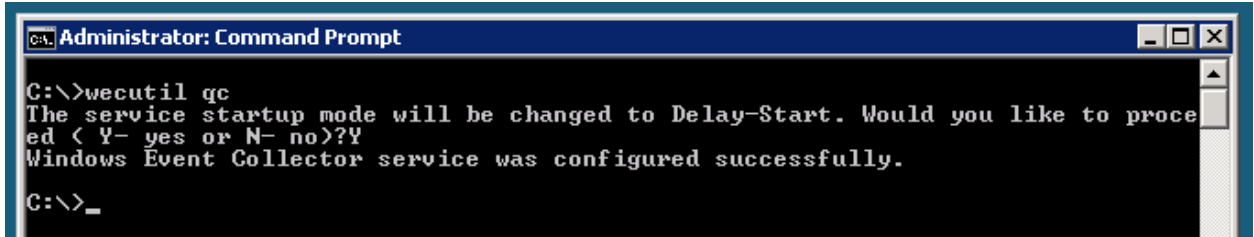


Figure 11 - Successful wecutil install message

### Enable “event collector” permission to Event log

Add the “Network Service” built-in user account (i.e. not from the domain but from the local computer) to the “Event Log Readers” Group.

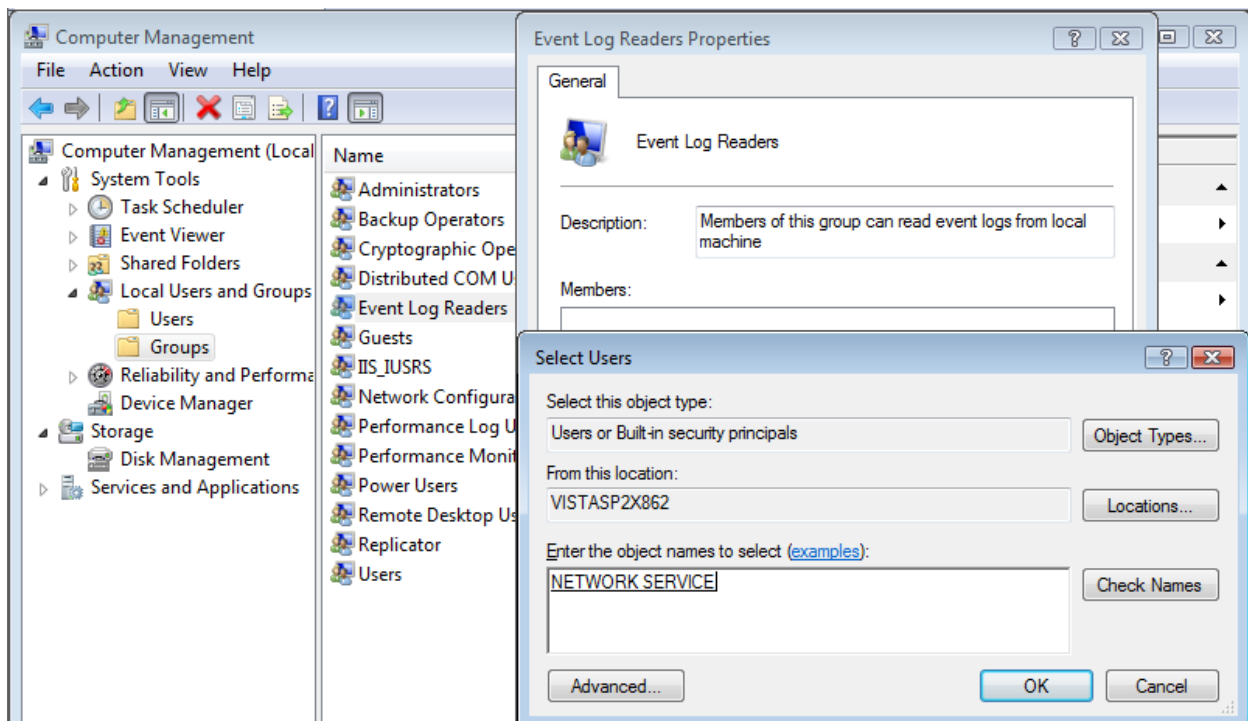


Figure 12 - Add network service built-in account to Event Log Readers group

### Install secRMMCentral on the “event collector” system

1. On the “event collector” system, download the secRMMCentral installation program from the Squadra Technologies web site at <http://www.squadratechnologies.com/Products/secRMM/secRMMDownloads.aspx>. The secRMMCentral download is under the “Additional optional downloads” link on the Squadra



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secRMMCentral	<a href="#">secRMMCentral</a>

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secRMMCentral collects all the secRMM events from the computers running secRMM. This might be necessary if you are not using Microsoft Operations Manager or another systems management product.

secRMMCentral utilizes [Microsoft Windows Event Log](#)

[Forwarding/Subscriptions](#). This Microsoft technology allows you to define a central repository of events from other computers. secRMMCentral works with the [secRMM Excel AddIn](#) to allow you to look at an individual system or all the systems in your environment.

Please select a link(s) from the list below.

Item	Download link
secRMMCentral x64 install	<a href="#">secRMMCentralInstallx64.zip</a>
secRMMCentral x86 install	<a href="#">secRMMCentralInstallx86.zip</a>
Administrators Guide	<a href="#">secRMMCentralAdministratorGuide.pdf</a> left click to view online right click and then "Save As" to download

Figure 13 - Download secRMMCentral installation from Squadra Technologies web site

2. Perform the secRMMCentral installation **only on** the "event collector" system:

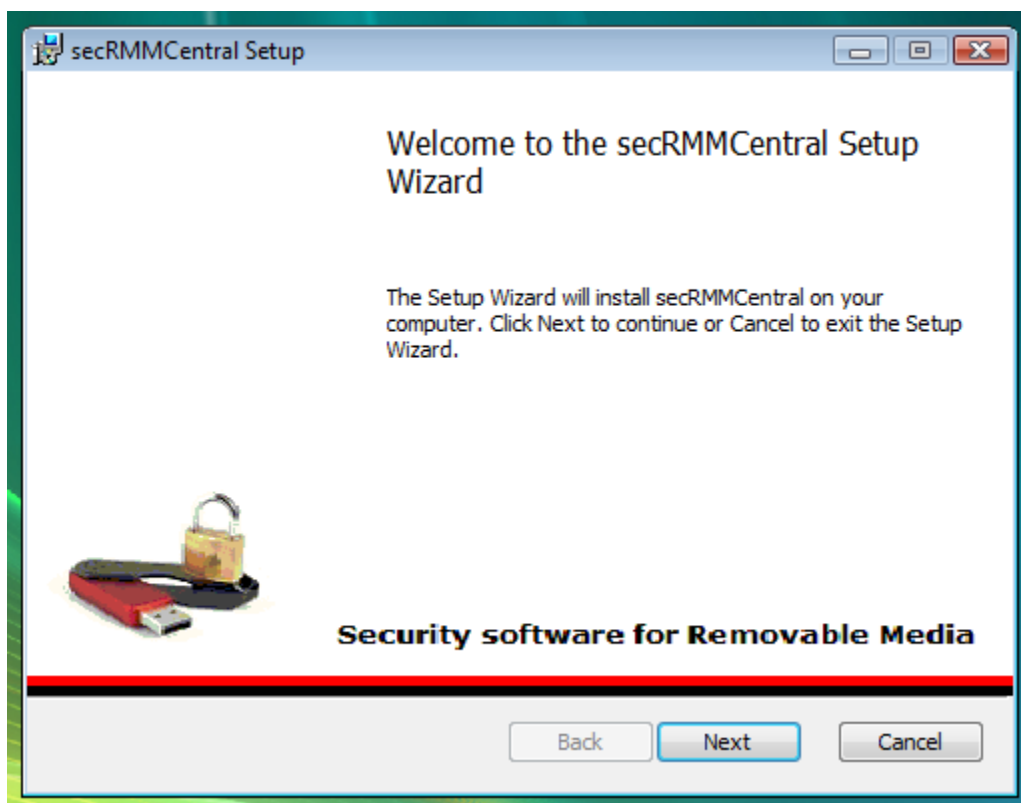


Figure 14 - secRMMCentral installation

3. Once the installation is complete, you will see the secRMMCentral event log in the event log viewer:

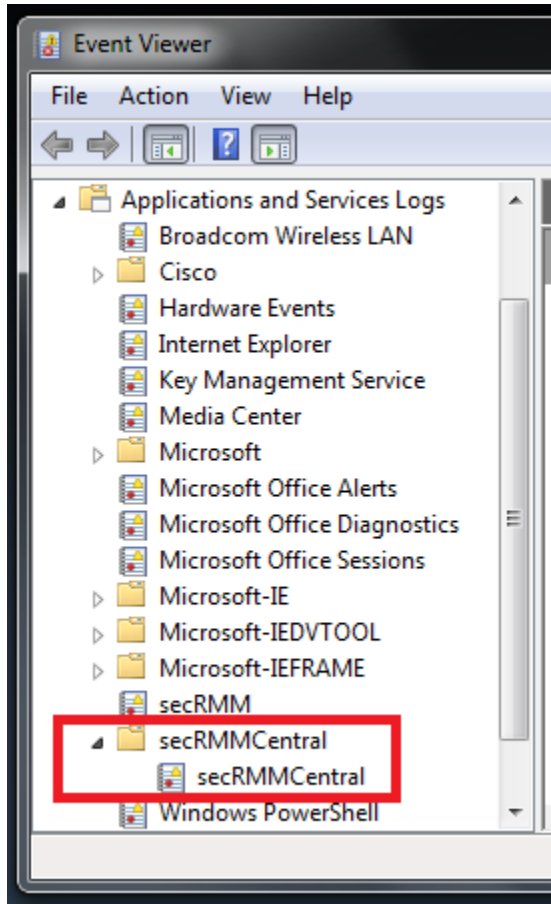


Figure 15 - secRMMCentral Event Log

### Configure the Event Forwarding Subscription

In the secRMMCentral installation directory on the “event collector” computer (you performed this installation in the previous section), there is an XML file that get installed called: SubscriptionSourceInitiated.xml

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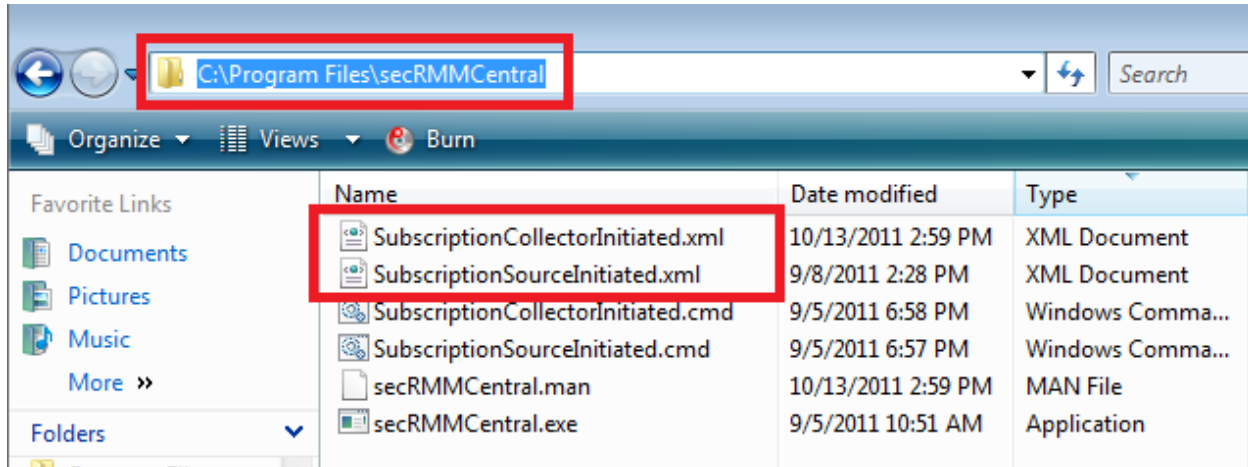
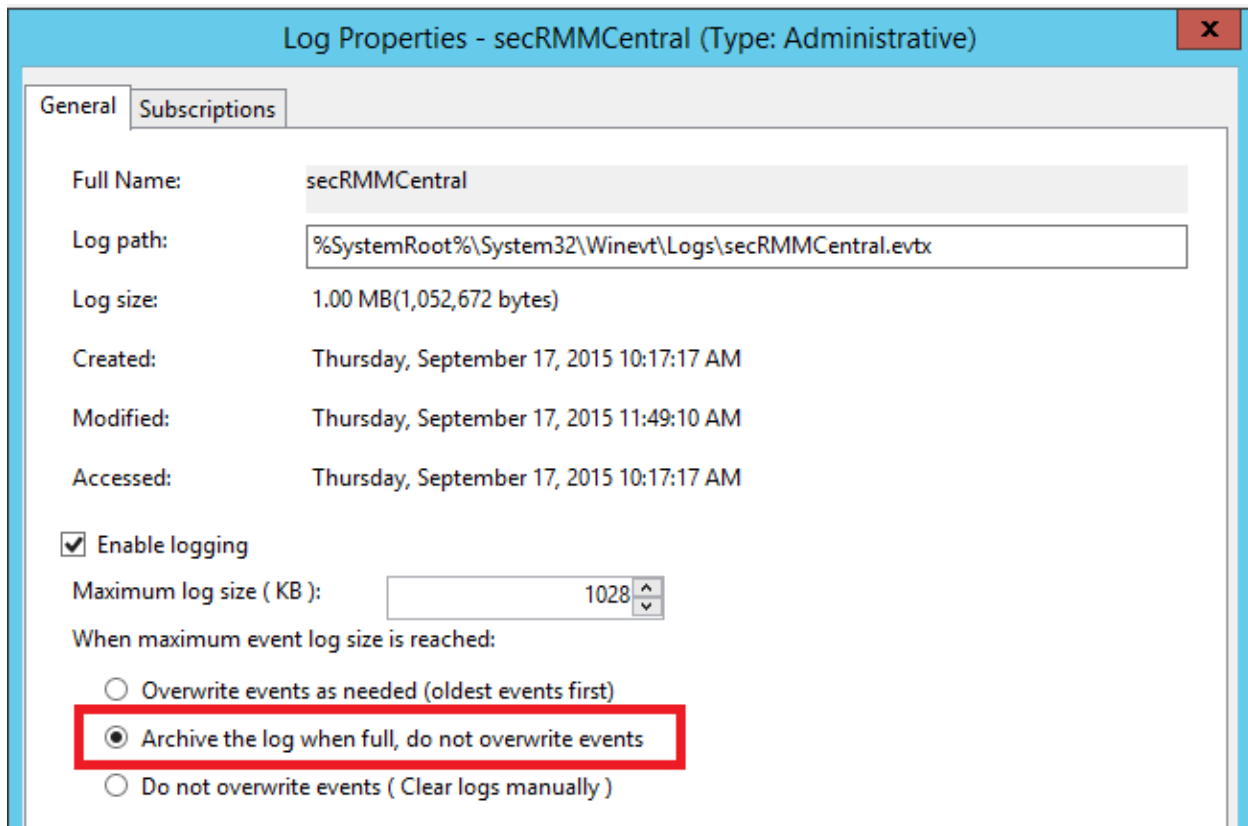


Figure 16 - secRMMCentral Installation directory

Using a CMD window in Administrator mode, change into the directory where secRMMCentral is installed (this is C:\Program Files\secRMMCentral by default) and execute the SubscriptionSourceInitiated.cmd. This cmd file will use the xml file SubscriptionSourceInitiated.xml to create the subscription.

### Set the secRMMCentral event log to roll when full

Right mouse click on the secRMMCentral event log and select "Properties". In the "General" tab, set "Archive the log when full, do not overwrite events".



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## Install secRMM on the event collector computer

Next, make sure you have secRMM (i.e. the core product, i.e. secRMMInstallx64.msi or secRMMInstallx86.msi) installed on the “event collector” computer.

## Adjusting the security

### Windows 10

If your “event collector” computer is running Windows 10, you will need to modify the permissions to allow the local network service to access the WinRM URL. Please enter the following command (try to use “cut and paste” to avoid mistyping the command):

```
netsh http add urlacl url=http://+:5985/wsman/ user="NT  
AUTHORITY\NETWORK SERVICE"
```

### Windows Server 2016 and above

If your “event collector” computer is a Windows Server version 2016 and above, you will need to modify the permissions to allow the local network service to access the WinRM URL. Please enter the following commands (try to use “cut and paste” to avoid mistyping the commands):

```
netsh http delete urlacl url=http://+:5985/wsman/
```

```
netsh http add urlacl url=http://+:5985/wsman/ sddl=D: (A;;GX;;;S-1-  
5-80-569256582-2953403351-2909559716-1301513147-  
412116970) (A;;GX;;;S-1-5-80-4059739203-877974739-1245631912-  
527174227-2996563517)
```

```
netsh http delete urlacl url=https://+:5986/wsman/
```

```
netsh http add urlacl url=https://+:5986/wsman/ sddl=D: (A;;GX;;;S-  
1-5-80-569256582-2953403351-2909559716-1301513147-  
412116970) (A;;GX;;;S-1-5-80-4059739203-877974739-1245631912-  
527174227-2996563517)
```

```
netsh http show urlacl
```

Details about the commands listed above are in the following Microsoft KB article:

<https://support.microsoft.com/en-us/help/4494462/events-not-forwarded-if-the-collector-runs-windows-server-2019-or-2016>

## Viewing the secRMMCentral data

Now that the installation is complete, you will start to see the secRMM events from the “source event” computers showing up in the secRMMCentral event log on the “collector event” computer.

# secRMMCentral Administrator Guide

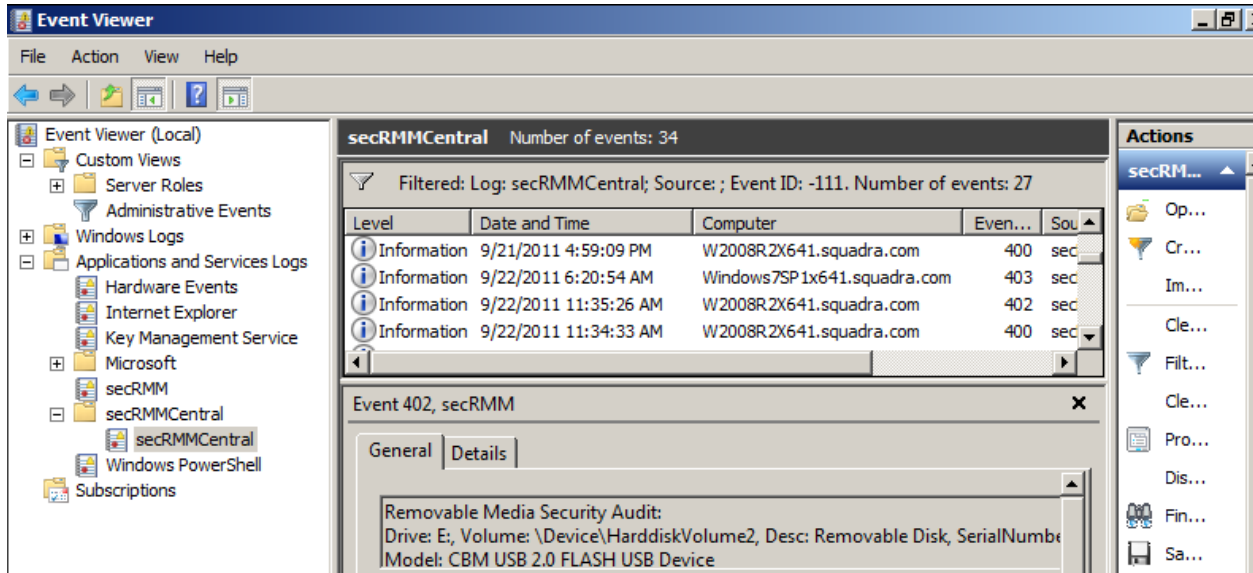


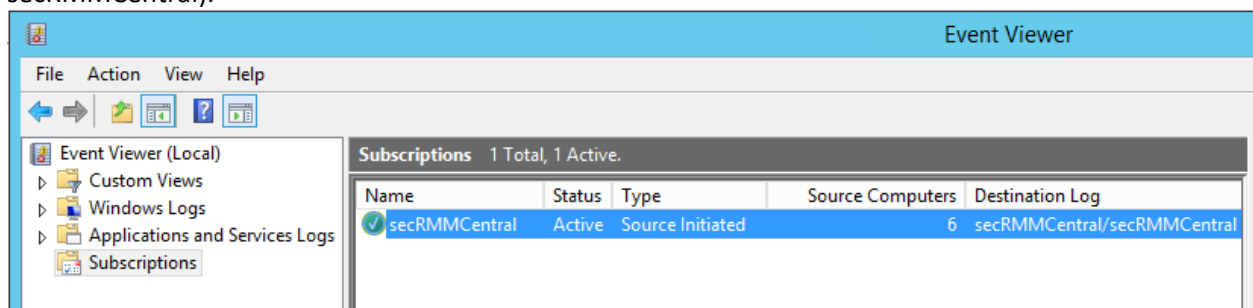
Figure 17 - secRMMCentral Event Log

## Show the Computer column

You can right mouse click on any column header (ex: Level, 'Date and Time', etc.) and select 'Add/Remove columns...'. Click 'Computer' in the 'Available columns' list and then click the 'Add' button so that the 'Computer' column shows in the 'Displayed columns' list.

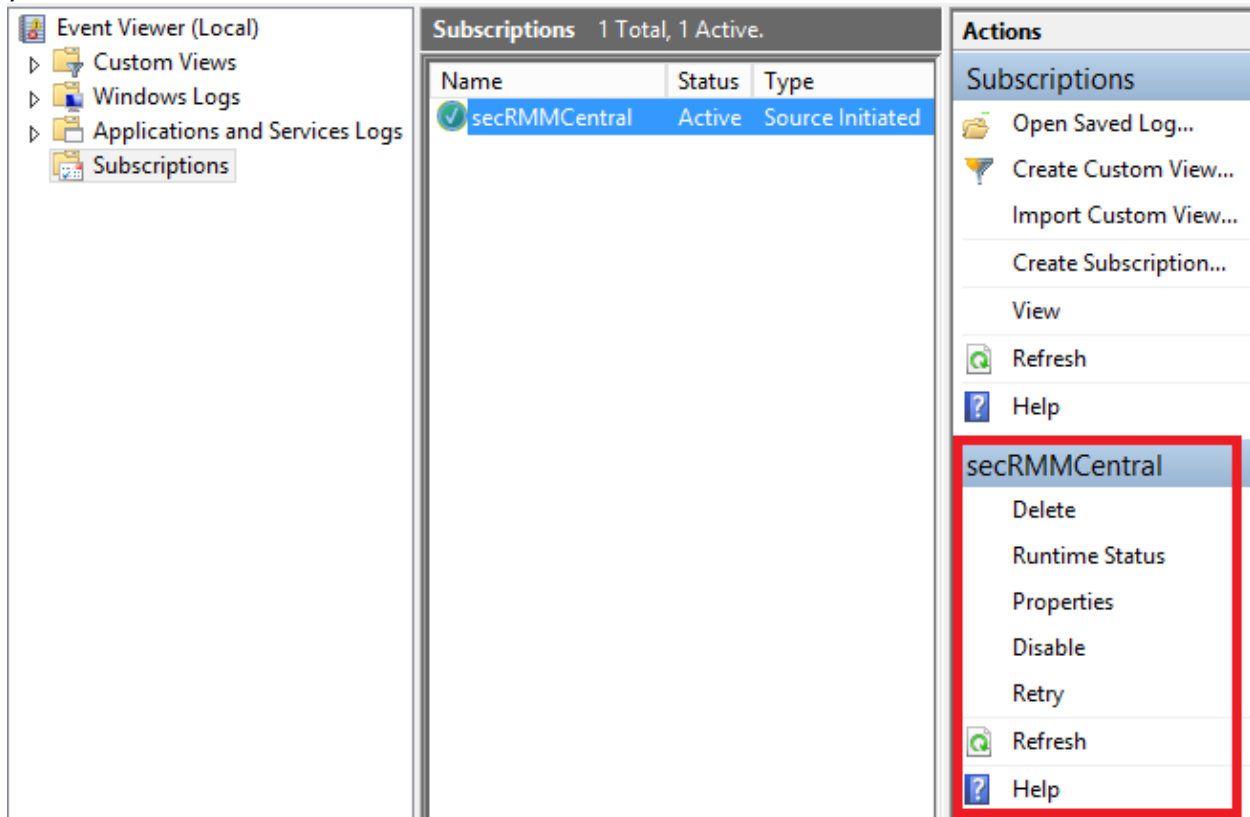
## Viewing the “source event” computers

On the secRMMCentral (collector) computer, within the “Event Viewer”, you can see the “source event” computers as shown in the screenshot below. Notice the column labeled “Source Computers”. It shows the number of “source event” computers that are registered with the “collector computer” (i.e. secRMMCentral).

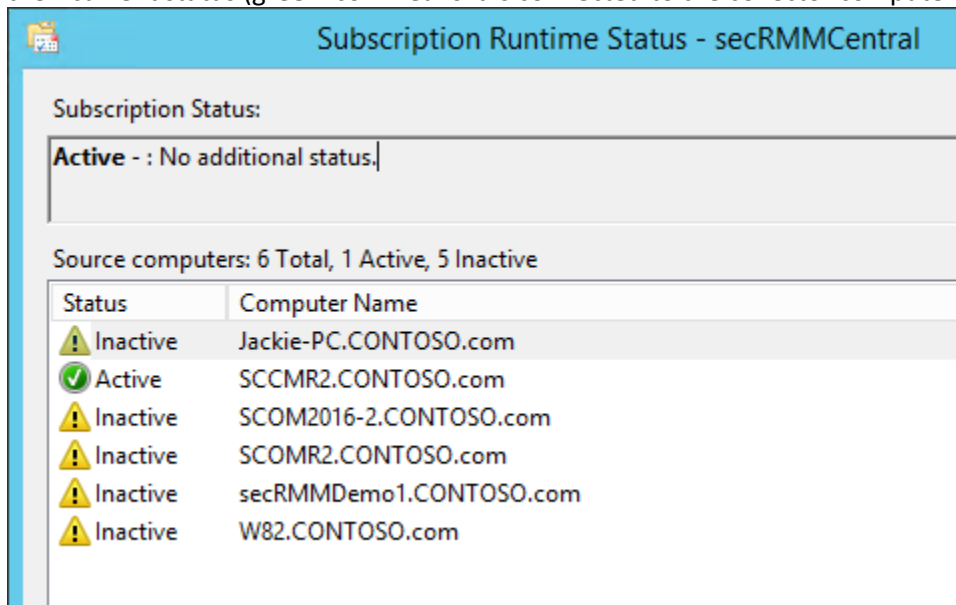


## secRMMCentral Administrator Guide

When you click the secRMMCentral subscription, the Actions column will give you options to further see your environment as shown in the screenshot below.



The “Runtime Status” is especially useful since it will show you the list of “source event” computers and their current status (green icon means it is connected to the collector computer).



If you are first bringing on “source event” computers and they are not “Active”, try restarting the WinRM service on the “source event” computer. This will usually bring it to the “Active” Status.

## Using the secRMMCentral data

### Microsoft System Center Operations Manager

secRMMCentral has a System Center Operations Manager (SCOM) Management Pack available. The SCOM Management Pack allows you to see the secRMMCentral events as SCOM alerts. It also gets the secRMMCentral events into the SCOM databases (Datawarehouse and ACS) for reporting purposes. To get the secRMMCentral SCOM Management Pack, please go to <http://www.squadratechnologies.com/Products/secRMM/SystemCenter/secRMMSystemCenterOperationsManager.aspx>.

Home >> secRMM >> Downloads >> secRMM System Center/Azure >> SCOM

The secRMM System Center Operations Manager Management Pack (MP) allows you to utilize the functions and features of secRMM directly from within the Operations Manager Console. secRMM has reports in both the OpsMgr Data Warehouse and the OpsMgr Audit Collection Services databases.

Item	Download link
Microsoft System Center Operations Manager secRMM Management Pack	<a href="#">Squadra.secRMM.xml</a> right click and then "Save As" to download
Microsoft System Center Operations Manager ACS and Data Warehouse reports	<a href="#">secRMMReports</a>
Microsoft System Center Operations Manager Administrators Guide	<a href="#">secRMMSCOM.pdf</a>
Microsoft System Center Operations Manager secRMMCentral Management Pack	<a href="#">Squadra.secRMMCentral.xml</a> right click and then "Save As" to download



## Standalone SQL database for reports

If you do not have a backend framework product (such as SCCM or SCOM or a SIEM tool) that can consume the secRMMCentral event data, you can still generate reports from the data using a standalone SQL database. If possible, the SQL instance should be on the same computer as the secRMMCentral event log (which you setup above). While it is possible for the SQL instance to be on a separate computer, you will need to edit some of the installation scripts (in the instructions below). If your SQL instance is on a separate computer from the secRMMCentral event log, please contact Squadra Technologies support for assistance.

### Prerequisites

You will need the following software components installed:

1. Microsoft SQL server with the **“SQL reporting services”** component installed
2. Microsoft Command Line Utilities for SQL Server (i.e. sqlcmd)  
<https://docs.microsoft.com/en-us/sql/tools/sqlcmd-utility> (for SQL 2017 and 2019)  
<https://www.microsoft.com/en-us/download/details.aspx?id=52676> (for SQL 2016)  
<http://www.microsoft.com/en-us/download/details.aspx?id=42295> (for SQL 2014)  
<http://www.microsoft.com/en-us/download/details.aspx?id=36433> (for SQL 2012)  
<http://www.microsoft.com/en-us/download/details.aspx?id=16978> (for SQL 2008)
3. Microsoft Log Parser  
<https://www.microsoft.com/en-us/download/details.aspx?id=24659>
4. Squadra Technologies secRMM (i.e. the core product, i.e. secRMMInstallx64.msi or secRMMInstallx86.msi)
5. Microsoft SQL Management Studio (optional but very helpful)

### Setup

1. Download the secRMMStandaloneReports.zip file from the Squadra Technologies web site under the secRMM Download area as shown in the screenshot below

## secRMMCentral Administrator Guide

---

[Home](#) >> [secRMM](#) >> [Downloads](#) >> [secRMMReports](#)

secRMM Reports are available in Microsoft System Center [Configuration Manager](#) (SCCM) and [Operations Manager](#) (SCOM). The secRMM SCOM reports can be run from either/or the SCOM Datawarehouse Database or the SCOM Audit and Collection Services (ACS) Database.

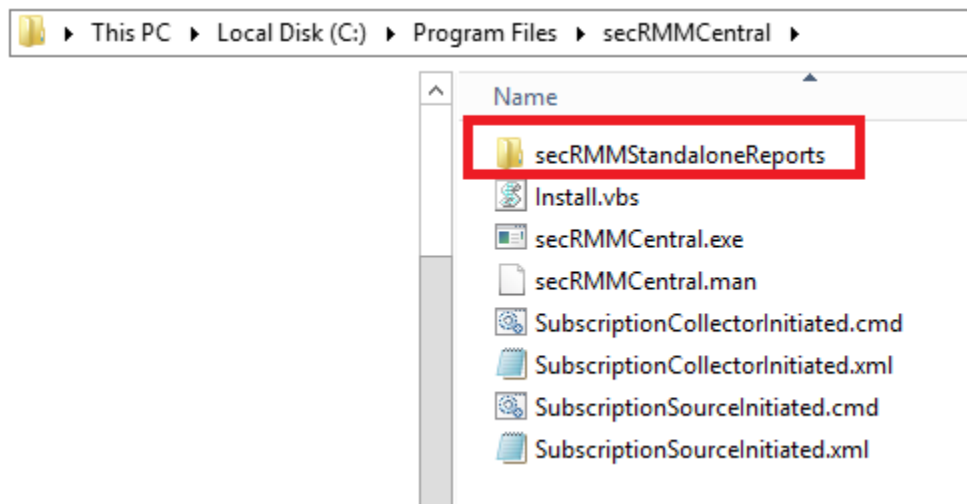
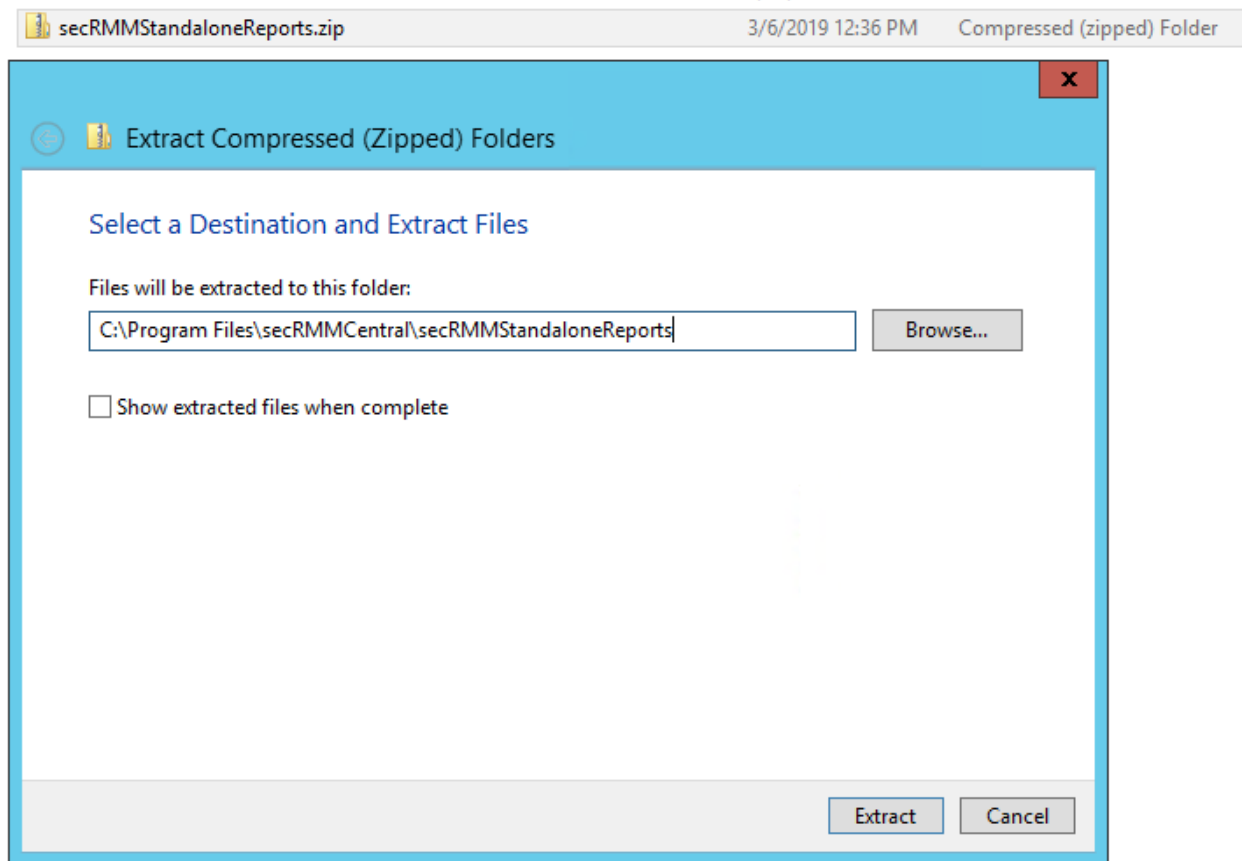
If you do not have SCOM in your environment, you can run a standalone SQL Database to report off. The standalone SQL configuration can work in conjunction with [secRMMCentral](#) or just by forwarding the event data via files.

Please select a link(s) from the list below.

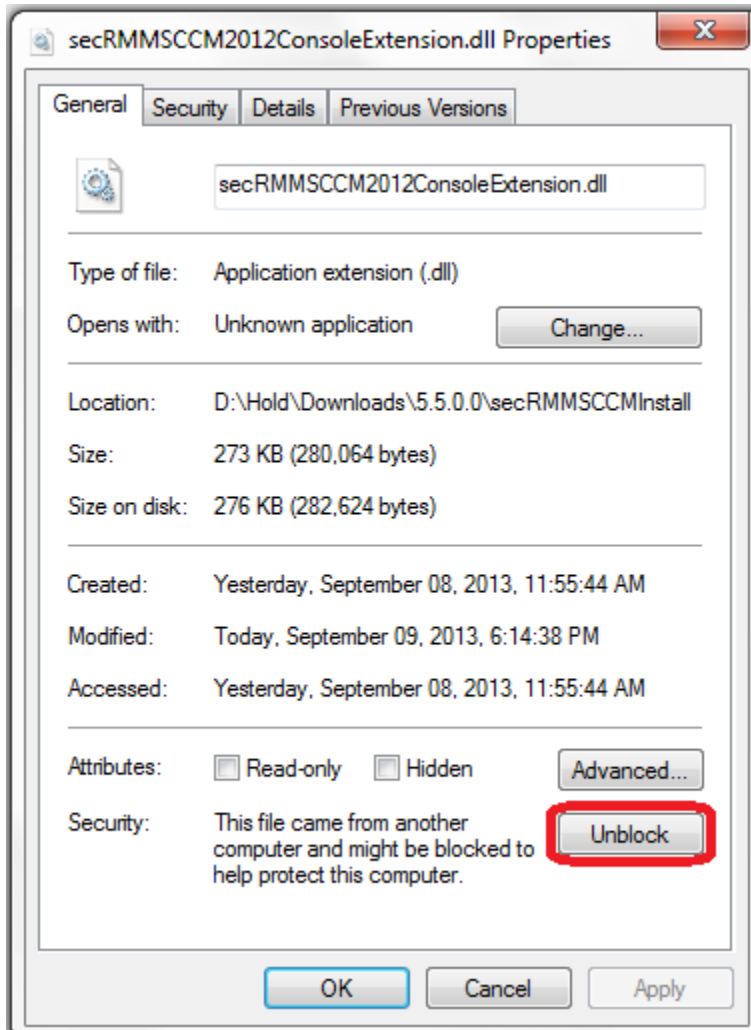
Item	Download link
Microsoft System Center Operations Manager Data Warehouse reports	<a href="#">secRMMOpsMgrDWReports.zip</a>
Microsoft System Center Operations Manager ACS reports	<a href="#">secRMMOpsMgrACSReports.zip</a>
Microsoft System Center Configuration Manager reports	<a href="#">secRMMSCCMReports.zip</a> <a href="#">secRMMSCCMInTuneReports.zip</a>
Standalone reports	<a href="#">secRMMStandaloneReports.zip</a>

- Unzip the secRMMStandaloneReports.zip file. It is recommended that you unzip it in the secRMMCentral directory as shown in the two screenshots below.

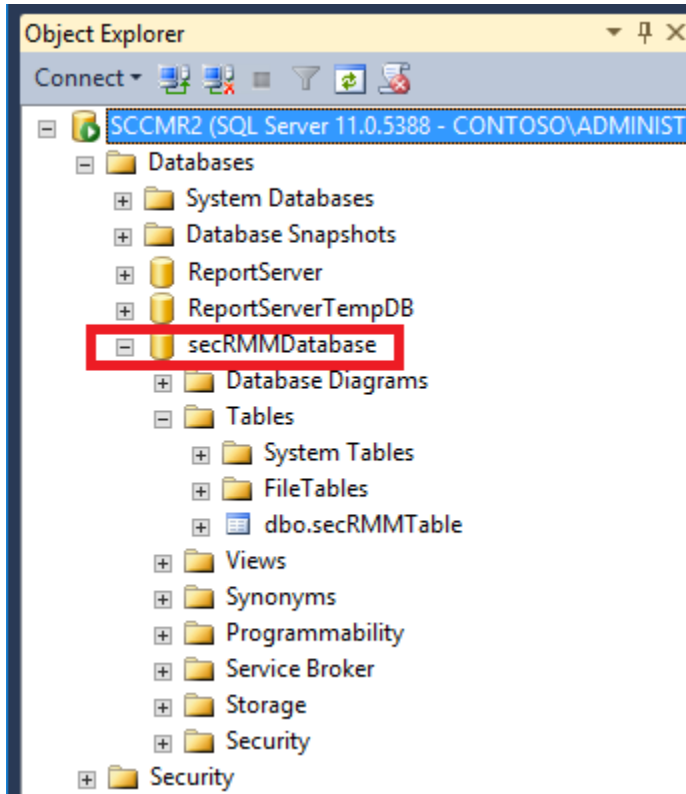
## secRMMCentral Administrator Guide



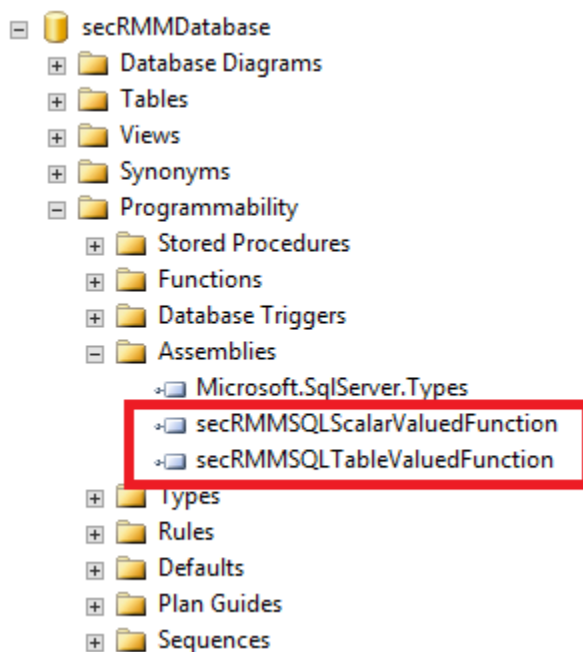
3. For the following steps below, check to make sure that all of the files that were unzipped are unblocked (see screen shot below). Windows (sometimes) blocks these files because they were downloaded from the Internet.



4. Within the secRMMStandaloneReports subdirectory, edit CMD file Standalone\_ImportSecRMMEventsIntoSQL.cmd to set the variables below for your environment:  
Line 34: set SQLServerAndInstance=localhost  
Line 35: set DatabasePhysicalFilesLocation=C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL\DATA\  
Line 36: set DatabasePhysicalFilesLocationLog=C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL\DATA\
5. Run Standalone\_ImportSecRMMEventsIntoSQL.cmd so that the SQL database named secRMMDatabase gets created.

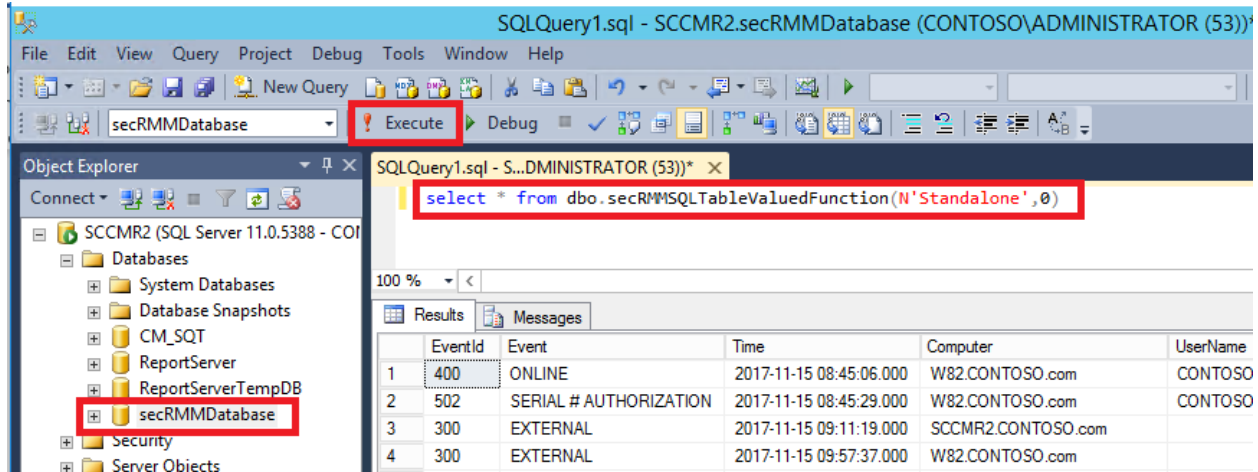


6. Once the database named secRMMDatabase exists, register the .net assemblies named secRMMSQLScalarValuedFunction and secRMMSQLTableValuedFunction.dll into the SQL database named secRMMDatabase by running the script InstallAssemblyForStandaloneDB.cmd in the Assembly subfolder.

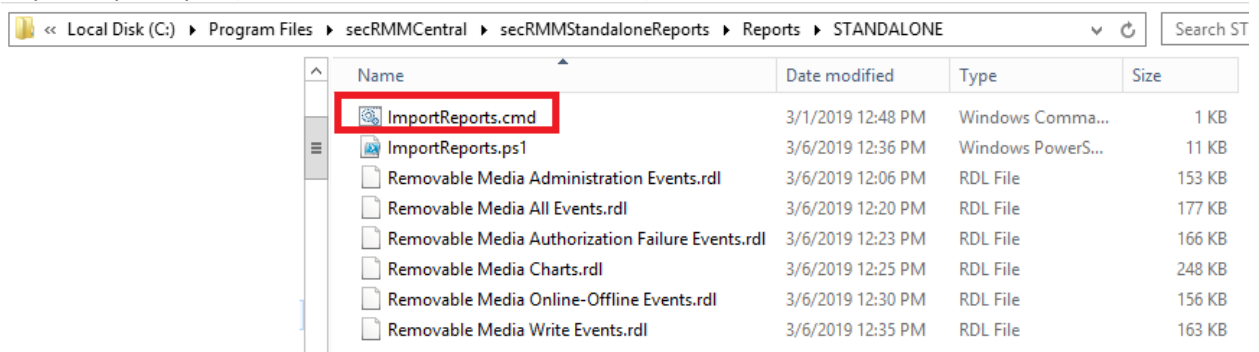


## secRMMCentral Administrator Guide

- Run the following SQL query against the secRMMDatabase (preferably using SQL Management Studio):  
`select * from dbo.secRMMSQLTableValuedFunction(N'Standalone',0)`  
Make sure there are no errors reported.



- If you already have a secRMMCentral event log on the system, run `BackupSecRMMCentralEventLog.cmd` to verify that it generates a "backup evtx file for the secRMMCentral event log" into this directory (i.e. the directory where this Standalone\_README.txt file resides...by default, this will be C:\Program Files\secRMMCentral\secRMMStandaloneReports).
- When there is one or more .evtx file(s) in the directory, run the script `Standalone_ImportSecRMMEventsIntoSQL.cmd`. **Note:** that we have seen times where you need close SQL Management Studio before this command will complete. It seems that some SQL lock gets created that hangs the script caused by the LogParser utility
- Verify that there is now data in the secRMMDatabase table named secRMMTable
- Run the following SQL query against the secRMMDatabase (preferably using SQL Management Studio):  
`select * from dbo.secRMMSQLTableValuedFunction(N'Standalone',0)`  
Verify there is data output.
- In the command window, change directory (CD) into the Reports\STANDALONE sub-directory.
- In the Reports\STANDALONE sub-directory, you will see a file named `ImportReports.cmd` and `ImportReports.ps1` (as shown in the screenshot below).



- In the command window, type `ImportReports.cmd` and hit the enter key.  
The output will look similar to the screenshot below.

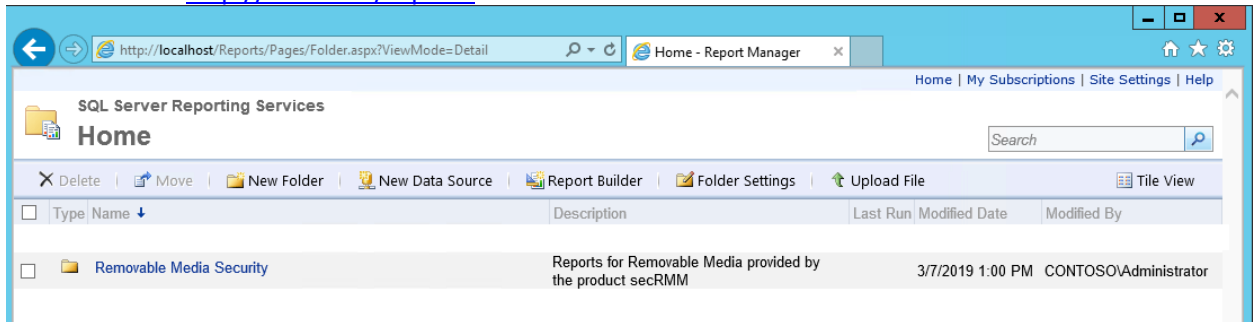
## secRMMCentral Administrator Guide

```
Administrator: Command Prompt
Folder "Removable Media Security" Created
Report Removable Media Administration Events.rdl uploaded successfully.
Report Removable Media All Events.rdl uploaded successfully.
Report Removable Media Authorization Failure Events.rdl uploaded successfully.
Report Removable Media by Device.rdl uploaded successfully.
Report Removable Media by User.rdl uploaded successfully.
Report Removable Media Charts.rdl uploaded successfully.
Report Removable Media Online-Offline Events.rdl uploaded successfully.
Report Removable Media Write Events.rdl uploaded successfully.
Import of reports completed.

C:\Program Files\secRMMCentral\secRMMStandaloneReports\Reports\STANDALONE>
```

15. You can now run the reports by opening a browser.

16. Go to the URL: <http://localhost/reports>

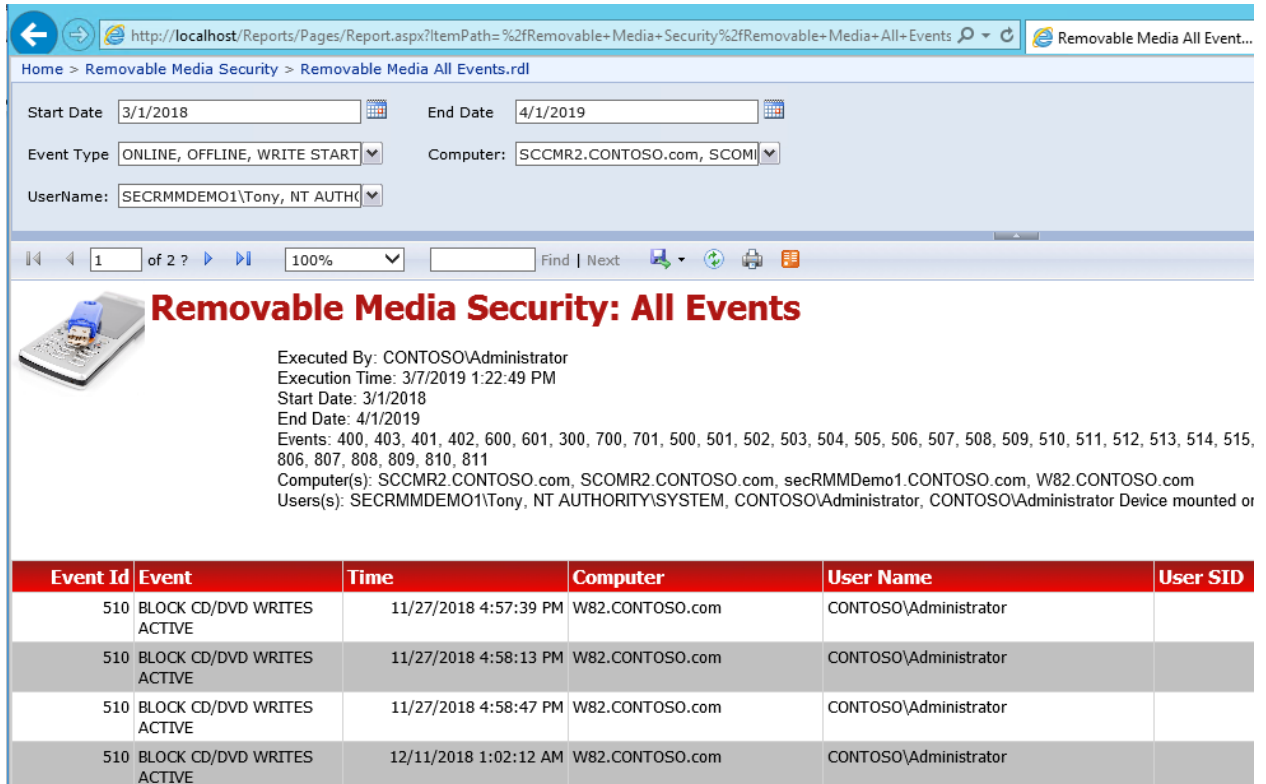


17. Click into the "Removable Media Security" folder within the browser.



18. Click any one of the reports to run them.

# secRMMCentral Administrator Guide



The screenshot displays the 'Removable Media Security: All Events' report in the secRMMCentral Administrator. The interface includes a navigation bar with the breadcrumb 'Home > Removable Media Security > Removable Media All Events.rdl'. Below the navigation bar, there are search filters for Start Date (3/1/2018), End Date (4/1/2019), Event Type (ONLINE, OFFLINE, WRITE START), Computer (SCCMR2.CONTOSO.com, SCOM), and UserName (SECRMDEMO1\Tony, NT AUTH). The report title 'Removable Media Security: All Events' is displayed in red. Below the title, the execution details are shown: Executed By: CONTOSO\Administrator, Execution Time: 3/7/2019 1:22:49 PM, Start Date: 3/1/2018, End Date: 4/1/2019, Events: 400, 403, 401, 402, 600, 601, 300, 700, 701, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 806, 807, 808, 809, 810, 811, Computer(s): SCCMR2.CONTOSO.com, SCOMR2.CONTOSO.com, secRMMDemo1.CONTOSO.com, W82.CONTOSO.com, Users(s): SECRMDEMO1\Tony, NT AUTHORITY\SYSTEM, CONTOSO\Administrator, CONTOSO\Administrator Device mounted or.

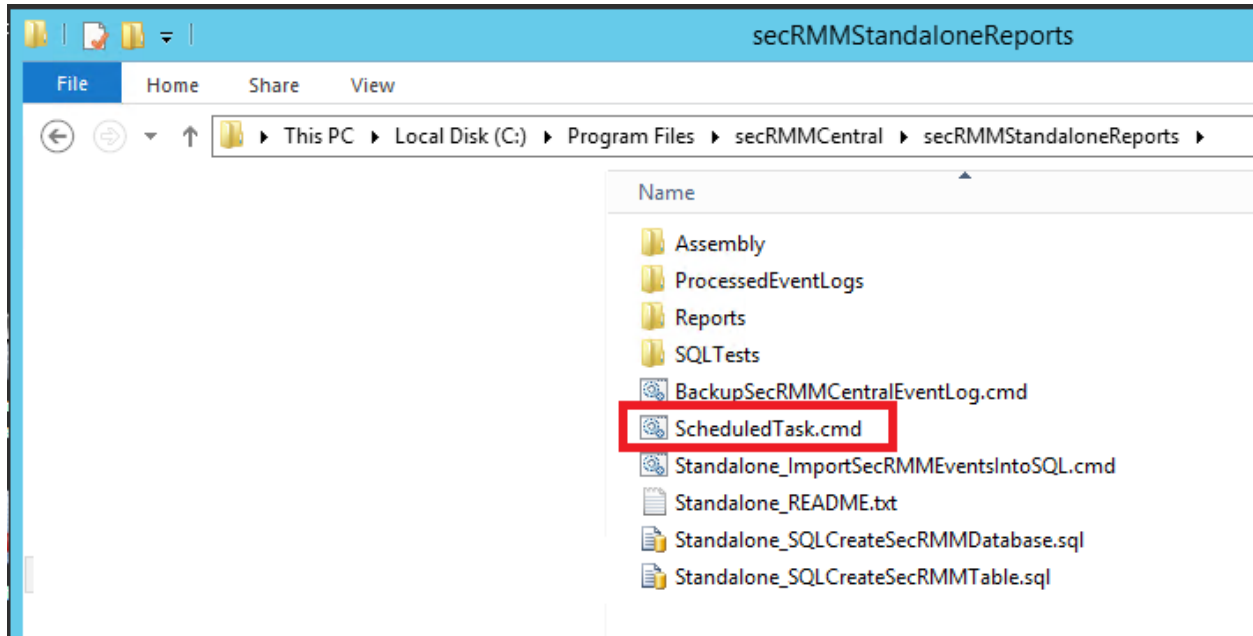
Event Id	Event	Time	Computer	User Name	User SID
510	BLOCK CD/DVD WRITES ACTIVE	11/27/2018 4:57:39 PM	W82.CONTOSO.com	CONTOSO\Administrator	
510	BLOCK CD/DVD WRITES ACTIVE	11/27/2018 4:58:13 PM	W82.CONTOSO.com	CONTOSO\Administrator	
510	BLOCK CD/DVD WRITES ACTIVE	11/27/2018 4:58:47 PM	W82.CONTOSO.com	CONTOSO\Administrator	
510	BLOCK CD/DVD WRITES ACTIVE	12/11/2018 1:02:12 AM	W82.CONTOSO.com	CONTOSO\Administrator	

## Scheduled Task

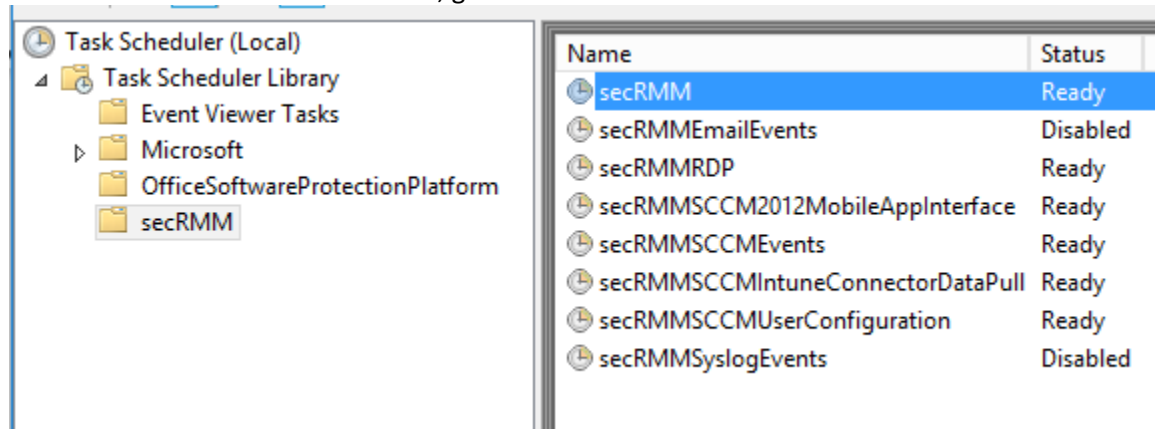
You should create a scheduled task that will take the events from the secRMMCentral event log and put them into the SQL secRMMDatabase. It is up to you how often you want to run the scheduled task but once a day is a good value. The action that the scheduled task should take is to call the script named C:\Program Files\secRMMCentral\secRMMStandaloneReports\ScheduledTask.cmd (see screenshot below).



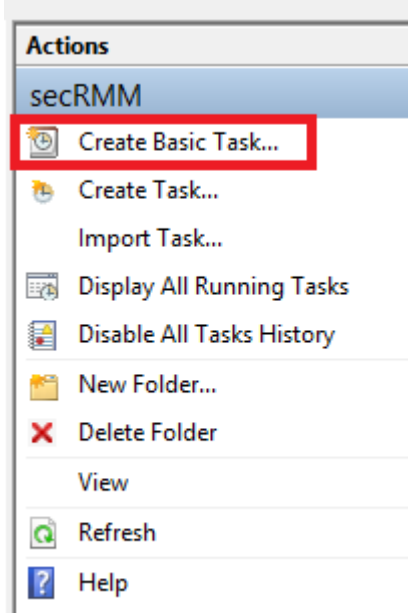
## secRMMCentral Administrator Guide



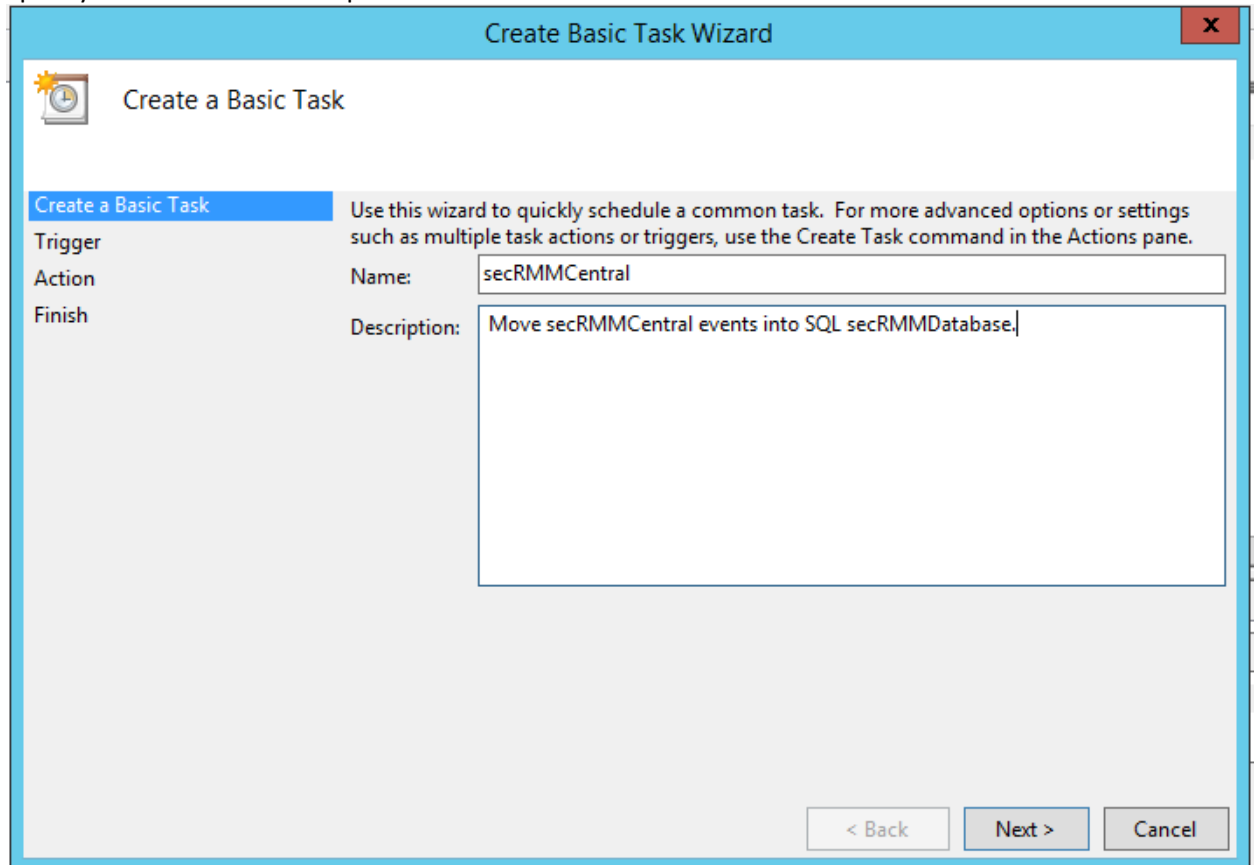
1. Go to the Windows Task Scheduler (taskschd.msc)
2. Within the Windows Task Scheduler, go to the secRMM folder



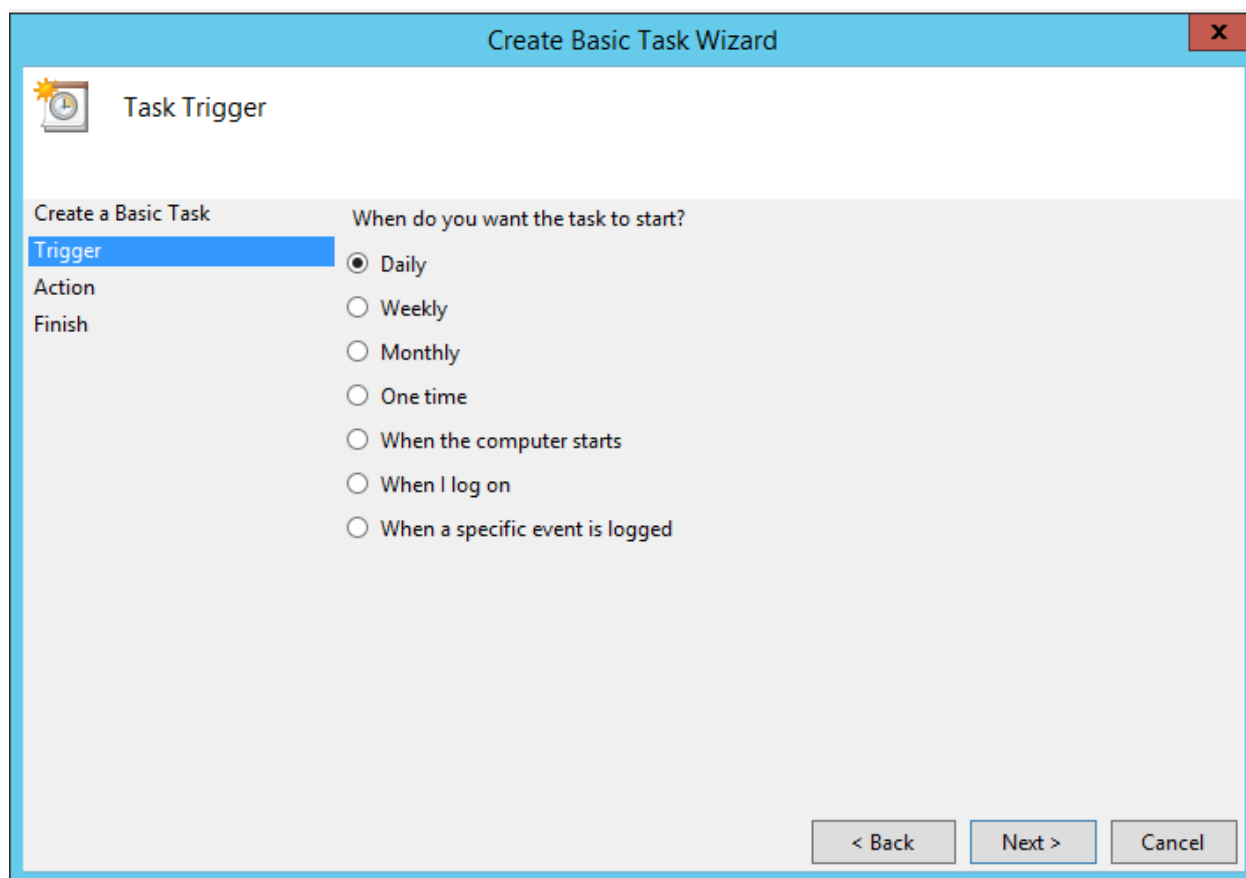
3. In the Actions column, click “Create Basic Task...”



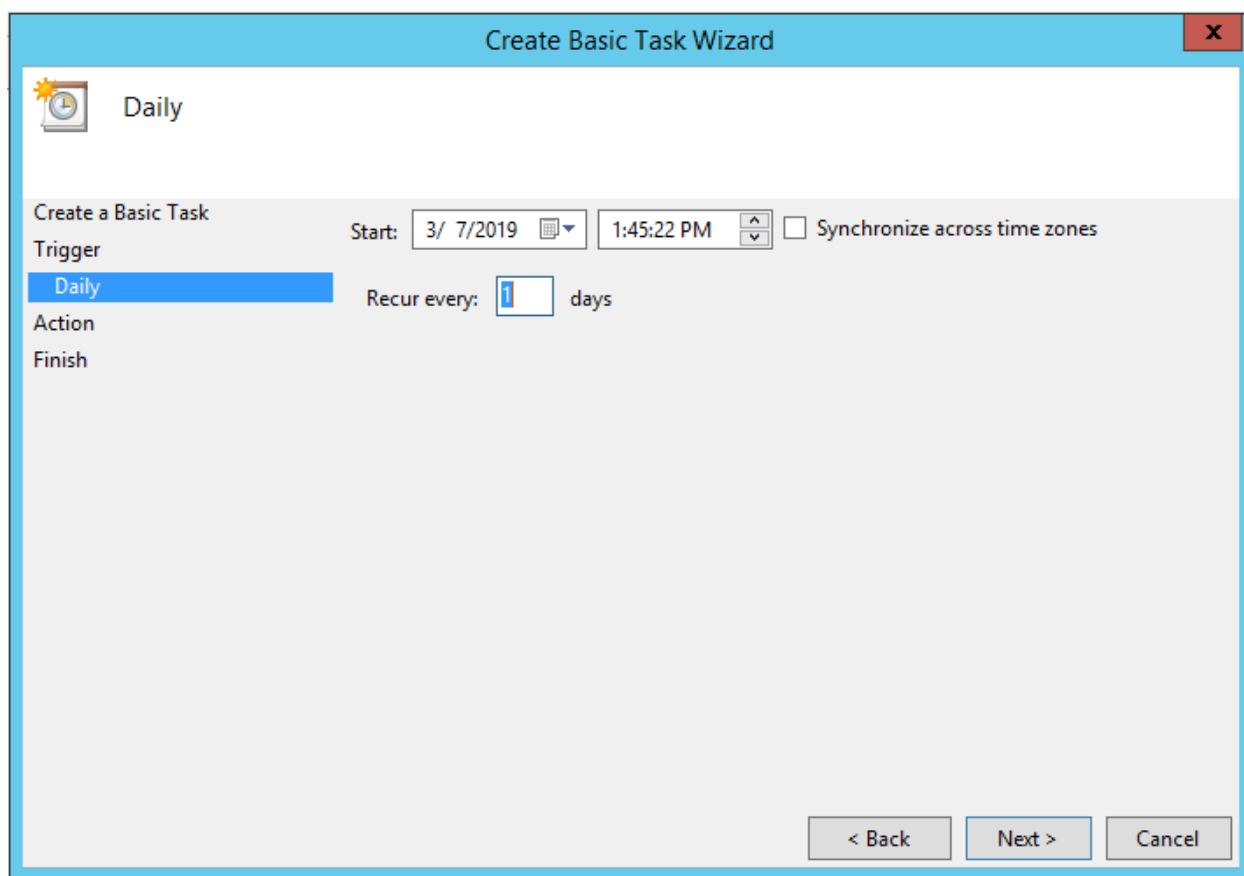
4. Specify the Name and Description and then click the next button



5. Specify how often you want to run the scheduled task and then click the next button




6. Specify the time to run the scheduled task and then click the next button



The image shows a 'Create Basic Task Wizard' dialog box. It has a blue title bar with the text 'Create Basic Task Wizard' and a close button (X) in the top right corner. Below the title bar, there is a section with a clock icon and the word 'Daily'. The main area of the dialog is divided into four sections: 'Create a Basic Task', 'Trigger', 'Action', and 'Finish'. The 'Trigger' section is currently selected and highlighted in blue. It contains a 'Start' field with a date picker set to '3/ 7/2019' and a time picker set to '1:45:22 PM'. To the right of the time picker is a checkbox labeled 'Synchronize across time zones'. Below the 'Start' field is a 'Recur every' field with a spinner box set to '1' and the text 'days'. The 'Action' and 'Finish' sections are currently empty. At the bottom right of the dialog, there are three buttons: '< Back', 'Next >', and 'Cancel'.

Create Basic Task Wizard

 Daily

Create a Basic Task

Trigger

Start: 3/ 7/2019 1:45:22 PM ☐ Synchronize across time zones

Daily

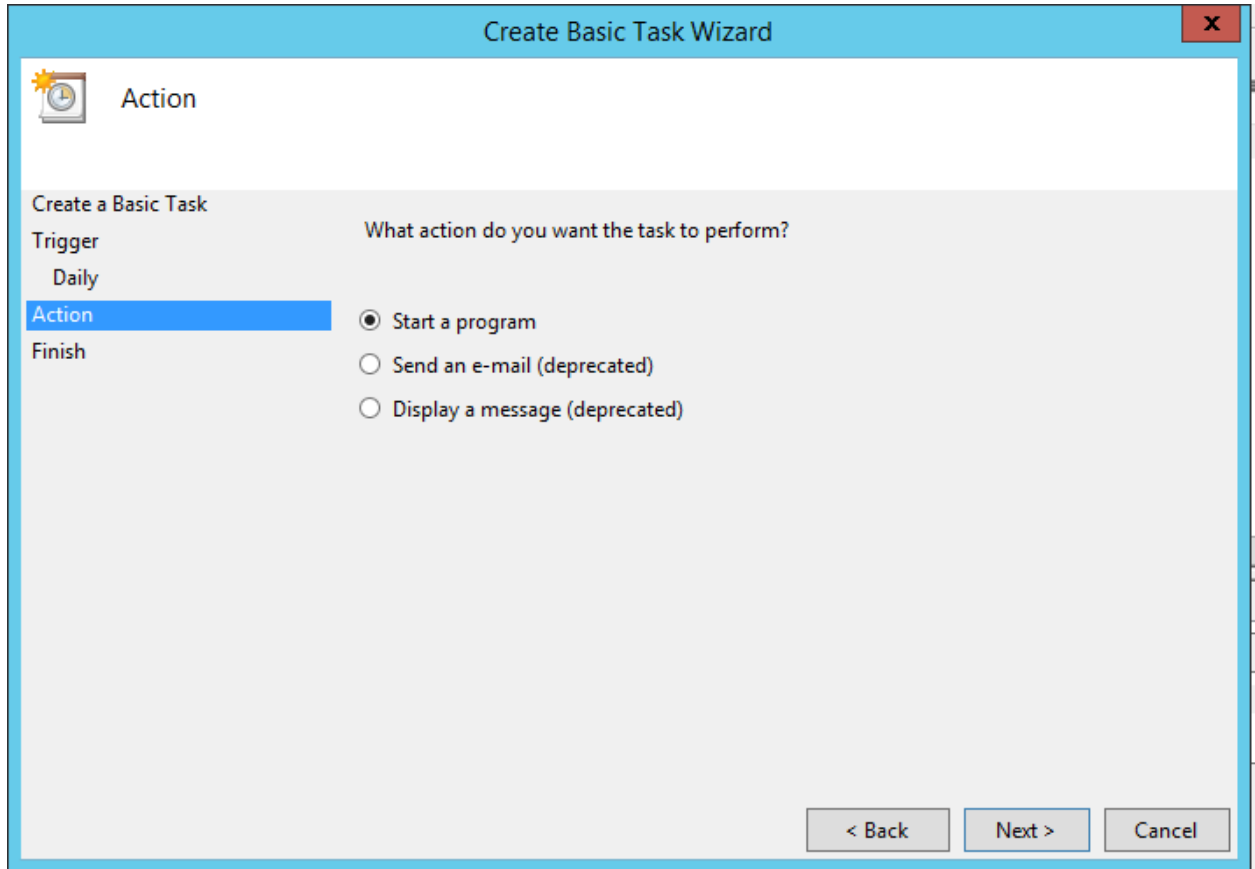
Recur every: 1 days

Action

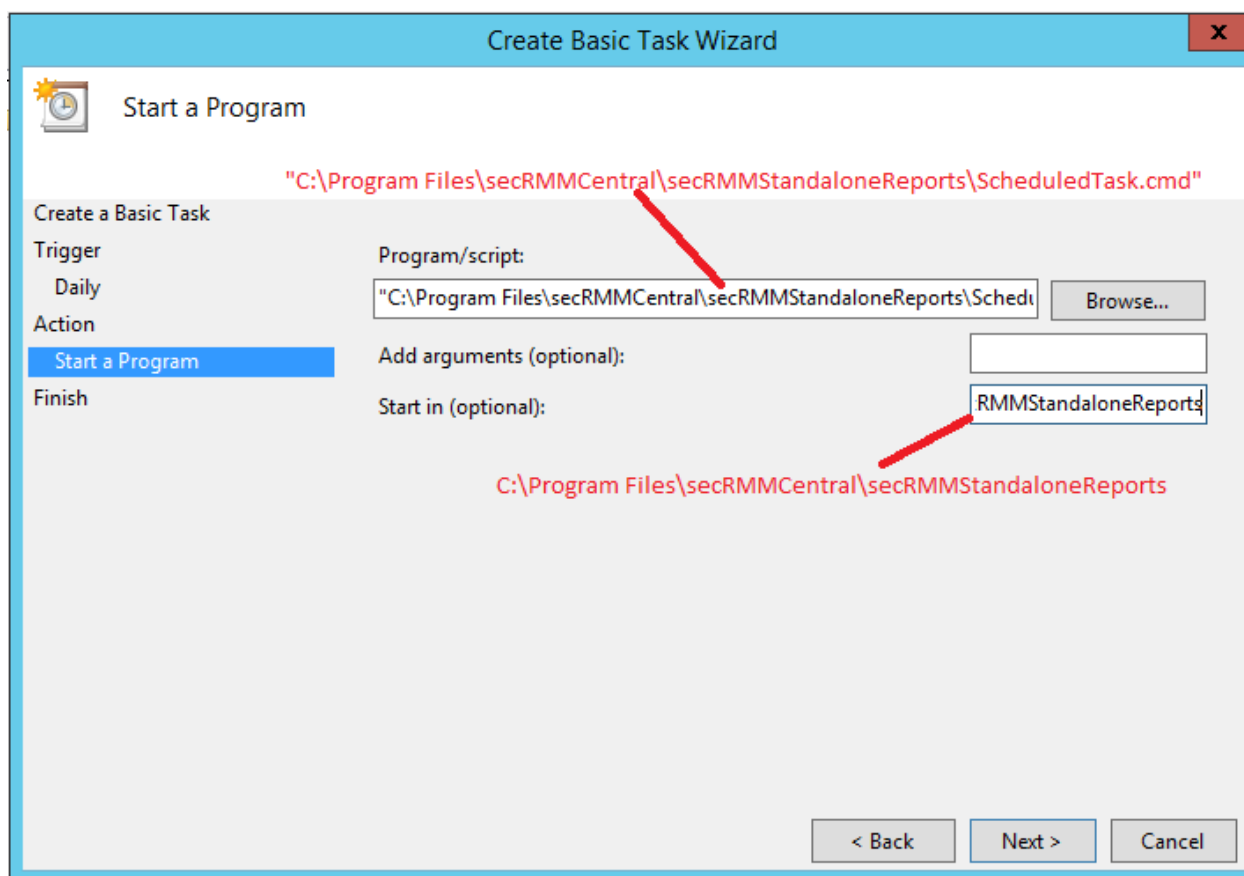
Finish

< Back Next > Cancel

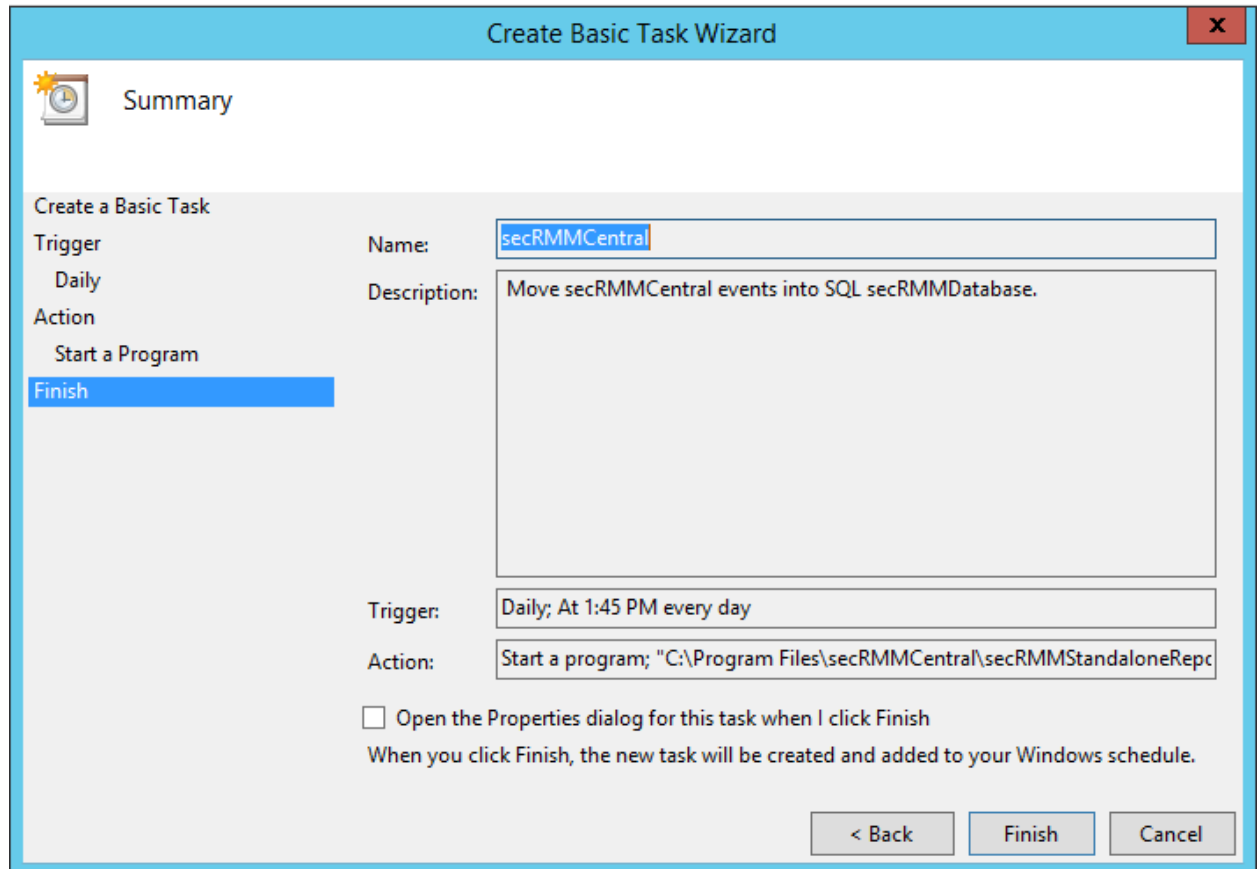
7. Specify "Start a program" and then click the next button



8. For the "Program/script", specify:  
"C:\Program Files\secRMMCentral\secRMMStandaloneReports\ScheduledTask.cmd"  
For the "Start in (optional)", specify:  
C:\Program Files\secRMMCentral\secRMMStandaloneReports



9. Click the Finish button



### ODBC Security

If you get ODBC security errors when the sqlcmd utility is called, you need to change a registry setting: HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\SecurityProviders\SCHANNEL\Protocols\TLS 1.0\Client\Enabled from 0 to 1.

### Azure Log Analytics and Azure Sentinel

secRMM event data can be forwarded to Microsoft Azure to be used with the various Microsoft Azure security solutions. You can modify the secRMM scheduled task on the secRMMCentral computer so that the secRMM event data can be forwarded to Microsoft Azure from the secRMMCentral event log rather than having every endpoint (workstation) running secRMM forward the events. To do this, edit the scheduled task (in the secRMM folder) on the secRMMCentral computer named secRMMAzureLogAnalytics (double click it to edit it). Click the "Triggers" tab and click the edit button for the "On an event" trigger. Now click the "Edit Event Filter..." button (it is a custom trigger so don't click the Basic radio button). In the XML tab, you will see 2 places where it says "secRMM". Just change "secRMM" to "secRMMCentral" in both places. Now click OK. Once you do this, make sure you enable this scheduled task manually. Then, make sure that your secRMM "Computer policies" do not have the "SendToAzureLog" property configured (since secRMMCentral is now doing the forwarding to Azure).

## Troubleshooting

If you have followed the steps explained in the sections above but are not getting events into the secRMMCentral event log, this section offers some troubleshooting steps. You may also want to contact Squadra Technologies technical support to get assistance.

1. Check the secRMM event log on the “event source” computer(s) to make sure there are current events. You can plug-in and remove a removable storage device to generate event ids 400 and 403.
2. On an “event source” computer, issue the WinRM commands below. Use the output of the command to determine if it was successful or an error occurred. The bold text is the text you will need to provide from your environment.  

```
winrm id -auth:none -remote:<hostname of the event collector machine>  
winrm id -remote:<hostname of the event collector machine>  
winrm get winrm/Config -r:<hostname of the event collector machine>
```
3. There are 3 Microsoft event logs that will help you to see if there are any WinRm errors. They are all under the Applications and Services Logs->Microsoft folder. They are listed below in the order in which you should look for errors:
  1. Eventlog-ForwardingPlugin
  2. Windows Remote Management
  3. Windows Firewall With Advanced Security
4. If one or more of the commands in step 2 failed or you are seeing errors in the events logs from step 3, determine if there is a proxy server between the event collector and the event source computer(s). You can use the tracert command to see the network hops. If there is a proxy server, you will need to modify WinRM (on the source computers) using the command:  

```
netsh winhttp set proxy proxy-server=http://hostname of the proxy/
```

## Contacting Squadra Technologies Support

Squadra Technologies Support is available to customers who have purchased a commercial version of secRMM and have a valid maintenance contract or who are in a trial mode of the product.

When you contact Support please include the following information:

1. The version of secRMM you have installed.
2. The Windows versions you have installed: XP, 2003 Server, 2008 Server R2, Vista, Windows 7, etc.
3. Whether the Windows Operating System is 32bit or 64bit.
4. The specific issue you are contacting support for.

## About Squadra Technologies, LLC.

Squadra Technologies delivers innovative products that help organizations get more data protection within the computer infrastructure. Through a deep expertise in IT operations and a continued focus on what works best, Squadra Technologies is helping customers worldwide.

Contacting Squadra Technologies, LLC.

Phone                      562.221.3079 (United States and Canada)



## secRMMCentral Administrator Guide

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