Performance Sentry Query Tool for Microsoft System Center Operations Manager

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1. Revision History

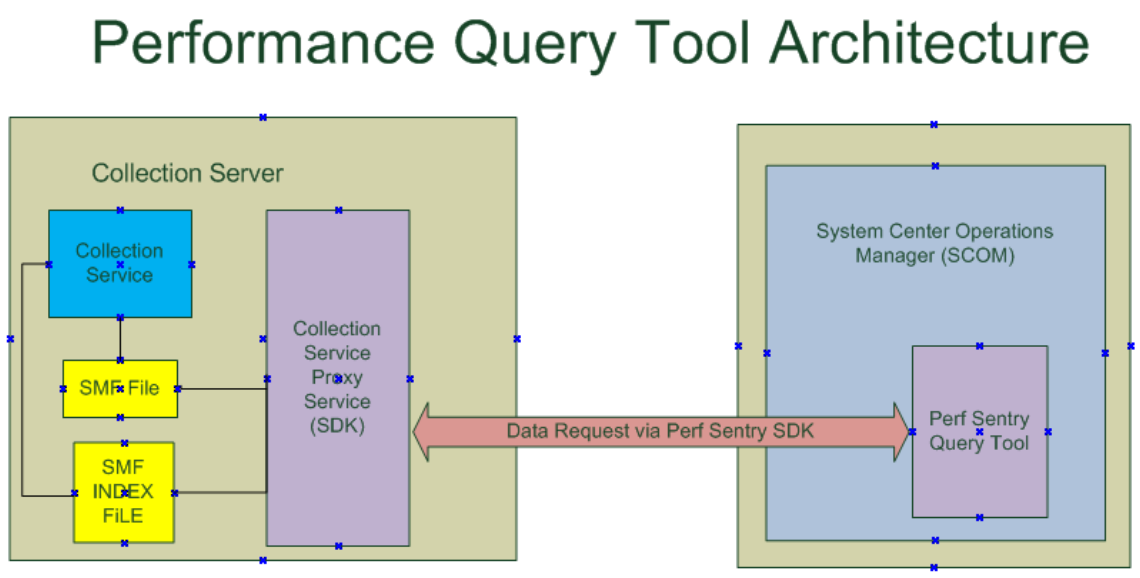
Author	Date	Version	Description
Mark Fuini	02-10-2012	v1.0	Initial Version
Phil Henninge	06-01-2012	V1.0	Revision 1

2. Overview

Thank you for your interest in Demand Technology Software's Performance Sentry product.

This document describes the Performance Sentry Query Tool. The Query Tool is a management pack for Microsoft System Center Operations Manager (SCOM). The Query Tool will allow administrators to retrieve near real-time or historical performance data from a particular machine running the Performance Sentry Collection Service. The Query Tool utilizes the Performance Sentry SDK to retrieve the data from the Performance Sentry Collection Service. Once the data is retrieved from the Collection Service into SCOM, it can be displayed or exported to CSV for further analysis.

3. Performance Sentry Query Tool Architecture



4. Performance Sentry Query Tool Components and Installation

The Performance Sentry Query Tool requires at minimum System Center Operations Manager 2007.

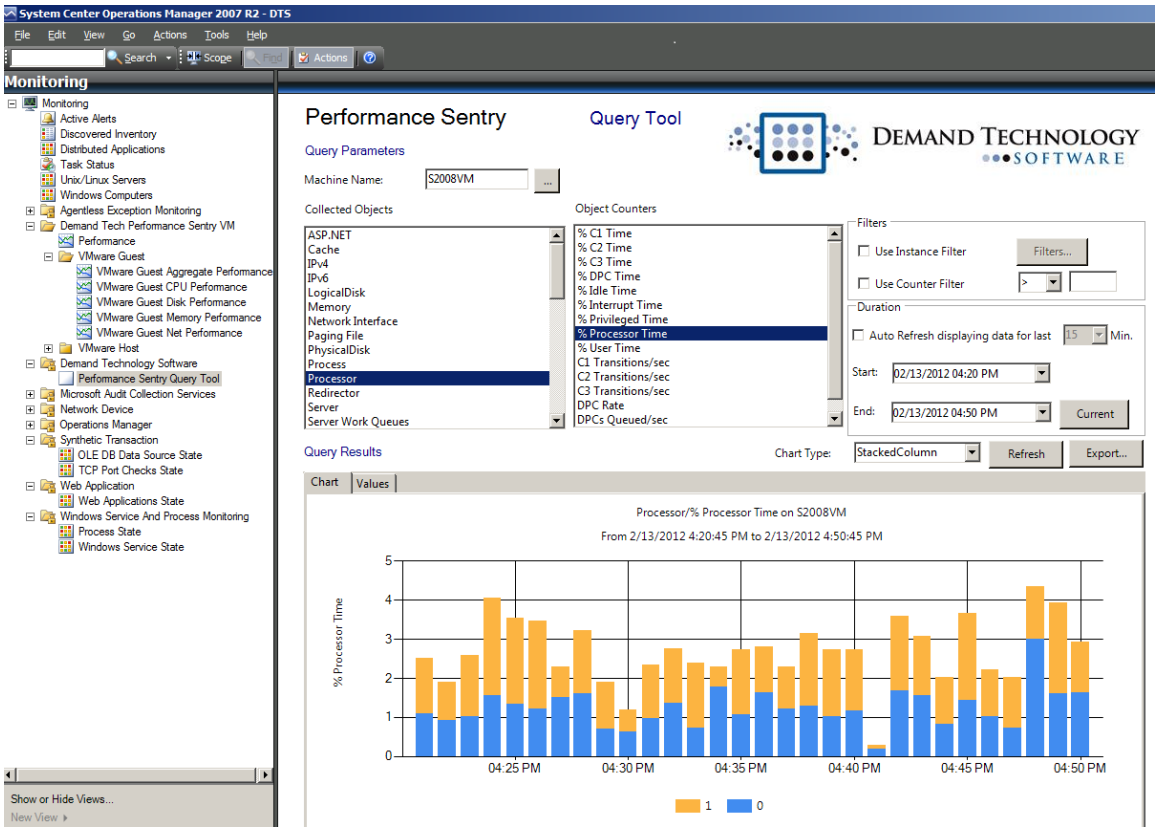
It also requires version 4.0.0.13 of the Performance Sentry Collection Service which also includes the Performance Sentry Proxy Service (the Collection Service Proxy Service seen in the diagram above). Both services must be installed and started on the machine from which you intend to retrieve and chart performance data.

The following table lists the Performance Sentry Query Tool components shipped with the package that must be installed as indicated in the installation instructions column.

Name	**Description**	**Installation Instructions**
DemandTechnology.PerfSentry.QueryTool.UI.dll	User Control DLL for the Perf Sentry Query Tool created in .Net 3.5 SP1	Copy to the SCOM Folder
System.Windows.Forms.DataVisualization.dll	.Net 3.5 SP1 Chart Control for Graphing in the Query Tool	Copy to the SCOM Folder
DemandTechnology.PerfSentry.QueryTool.UI.mp	Perf Sentry Tool Management Pack	Place with other management packs Import into SCOM using SCOM Console

5. Performance Sentry Query Tool Operation

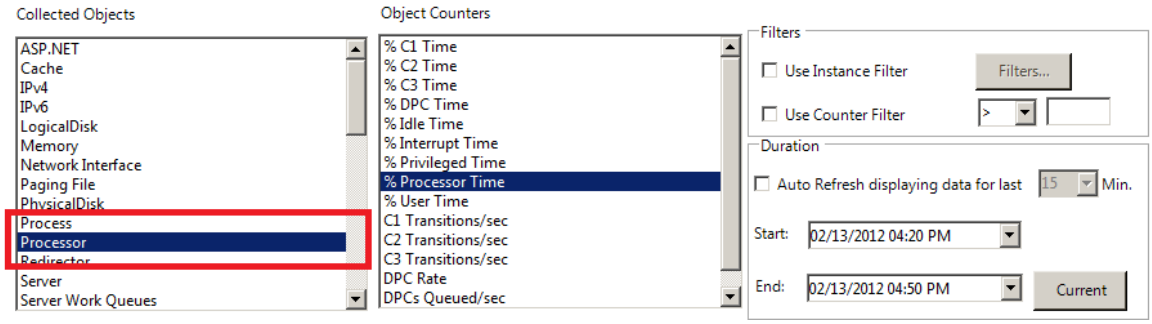
Performance Sentry Query Tool uses the Performance Sentry SDK to retrieve and chart the performance data requested by the user. The following screen capture shows the Query Tool User Interface running inside of System Center Operations Manager:



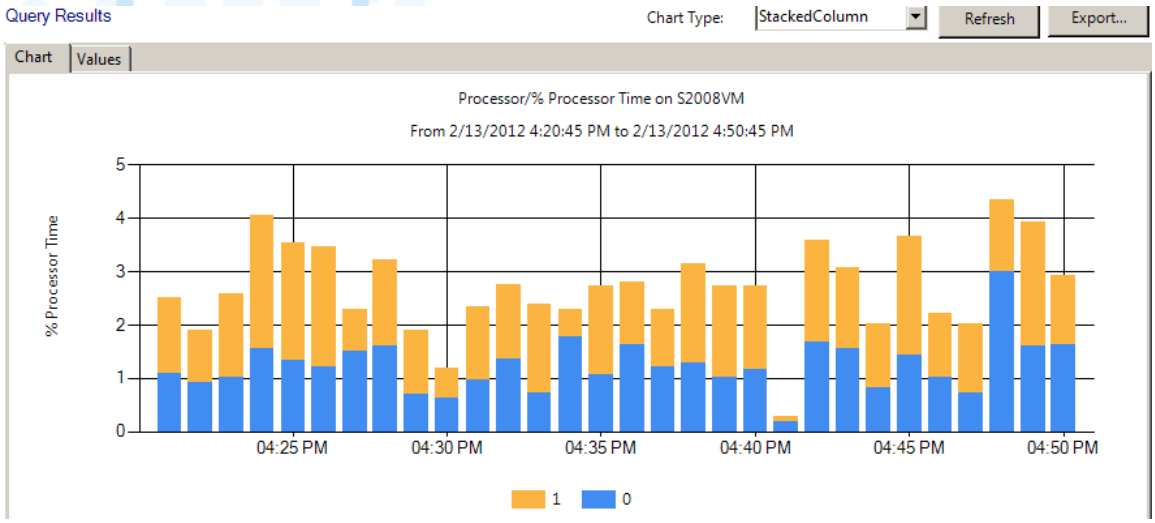
Use the following steps to retrieve and chart near real-time performance data from a machine running the Performance Sentry Collection Service:

1. Using the interface from within SCOM, select a machine with the browse '…' button.

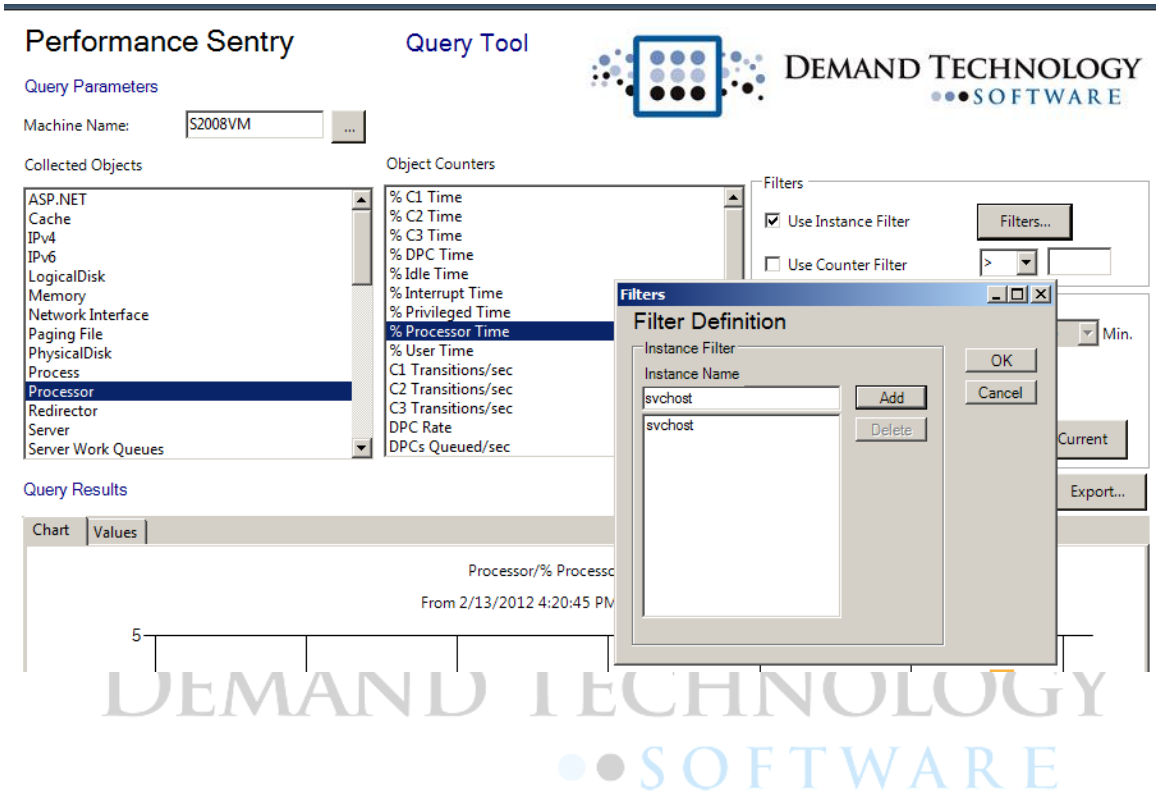
2. The Query Tool uses the SDK to retrieve the names of the objects being collected by the Collection Service. Once an object is selected by the user, the Performance Sentry Query tool retrieves the respective counters for that object:



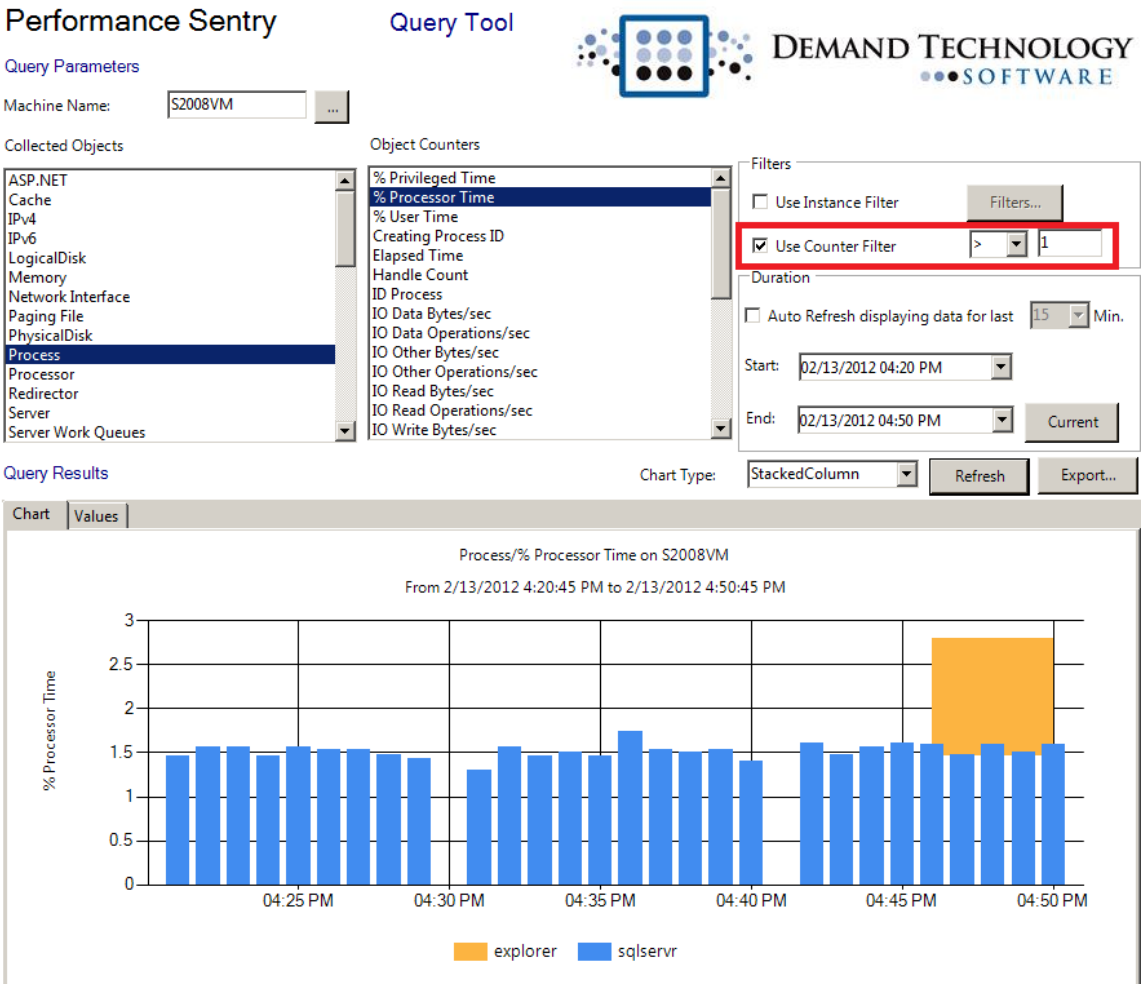
3. After an object and counter pair is selected, the Query Tool retrieves the performance data for the particular Object Counter and charts the data. The values of this data can be exported in CSV format with the 'Export..' button.



4. The user can also select filters for an instanced object or on counters of the object in order to reduce the amount of data being returned from the Performance Sentry Collection Service. This is accomplished by enabling the ‘Use Instance Filter’ checkbox and by pressing the ‘Filters…’ button and entering the instance name.



5. The user can also exclude data by a specific counter value. The following example shows data being restricted by 1% Processor Time.



Demand Technology Software also has a System Center Operations Manager Management Pack for a sister product called Performance Sentry VM. Performance Sentry VM connects to a VMware ESX server to retrieve performance data for the ESX server and all guests and formats the data in Windows Object/Counter format so that any Windows performance monitoring software can collect and report on VMware performance data.

For more information on the Performance Sentry VM Management Pack, please visit Demand Technology's product website at www.demandtech.com/products