

Time Zone Inventory – Configuration Manager

In this post, I will show you how to create time zone query to find out which clients are at which time zone within your network.

The screenshot shows the Configuration Manager console. At the top, the navigation pane is expanded to **Administration > Overview > Client Settings**. An orange arrow points to the **Properties** button in the top ribbon. Below this, the **Client Settings** pane shows a list of settings with **Default Client Settings** selected. An orange arrow points to this selection.

The main pane displays the **Default Settings** for hardware inventory. Under the **Device Settings** section, the **Enable hardware inventory on clients** checkbox is checked. The **Hardware inventory schedule** is set to "Occurs every 7 days effective 01-Feb-1970 12:00 AM". The **Maximum random delay (minutes)** is 240, and the **Maximum custom MIF file size (KB)** is 250. An orange arrow points to the **Set Classes ...** button.

The **Hardware Inventory Classes** dialog box is open, showing a search for "timezone". The **Time Zone (Win32_TimeZone)** class is selected, and all its sub-properties are checked, including **Standard Name**, **Bias**, **Caption**, **Daylight Bias**, **Daylight Day**, **Daylight Day Of Week**, **Daylight Hour**, **Daylight Millisecond**, **Daylight Minute**, **Daylight Month**, **Daylight Name**, **Daylight Second**, **Daylight Year**, **Description**, **Setting ID**, **Standard Bias**, **Standard Day**, **Standard Day Of Week**, **Standard Hour**, **Standard Millisecond**, **Standard Minute**, **Standard Month**, **Standard Second**, and **Standard Year**. An orange arrow points to the **OK** button at the bottom right.

Default Settings

Background Intelligent Transfer

- Client Cache Settings
- Client Policy
- Cloud Services
- Compliance Settings
- Computer Agent
- Computer Restart
- Delivery Optimization
- Endpoint Protection
- Enrollment
- Hardware Inventory**
- Metered Internet Connections
- Power Management
- Remote Tools
- Software Center
- Software Deployment
- Software Inventory
- Software Metering
- Software Updates
- State Messaging
- User and Device Affinity
- Windows Analytics

Default Settings

Specify settings that apply to all clients in the hierarchy, and can be modified by custom settings.

Specify hardware inventory settings for client computers.

Device Settings

- Enable hardware inventory on clients: Yes
- Hardware inventory schedule: Occurs every 7 days effective 01-Feb-1970 12:00 AM
- Maximum random delay (minutes): 240
- Maximum custom MIF file size (KB): 250
- Hardware inventory classes: Set Classes ...
- Collect MIF files: None

OK Cancel

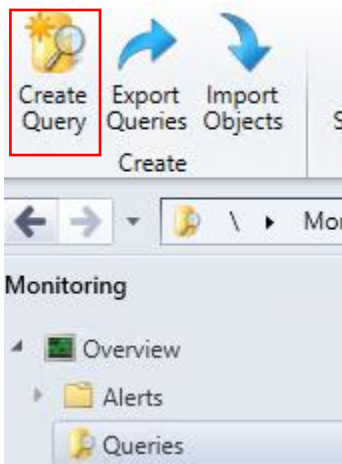
- Client Notification
- Client Diagnostics
- Endpoint Protection
- Export
- Copy
- Refresh F5
- Delete Delete
- Simulate Deployment
- Deploy
- Clear Server Group Deployment Locks

- Download Computer Policy
- Download User Policy
- Collect Discovery Data
- Collect Software Inventory
- Collect Hardware Inventory
- Evaluate Application Deployments
- Evaluate Software Update Deployments
- Switch to next Software Update Point
- Evaluate Device Health Attestation
- Wake Up

Monitoring > Client Operations

Icon	Operation Name	Description	Date Created	Status	Collection	Clients	Success	Failed	Offline	Unknown	Last Status Time
	Collect Hardware Inventory		24-Feb-2020 6:50 AM	Active	All Systems	9	7	0	2	0	24-Feb-2020 6:51 AM
	Download Computer Policy		24-Feb-2020 6:49 AM	Active	All Systems	9	7	0	2	0	24-Feb-2020 6:50 AM

Now we will create time zone query



Create Query Wizard



General

General Query Settings

Name:

Comments:

Object Type:

Collection Limiting

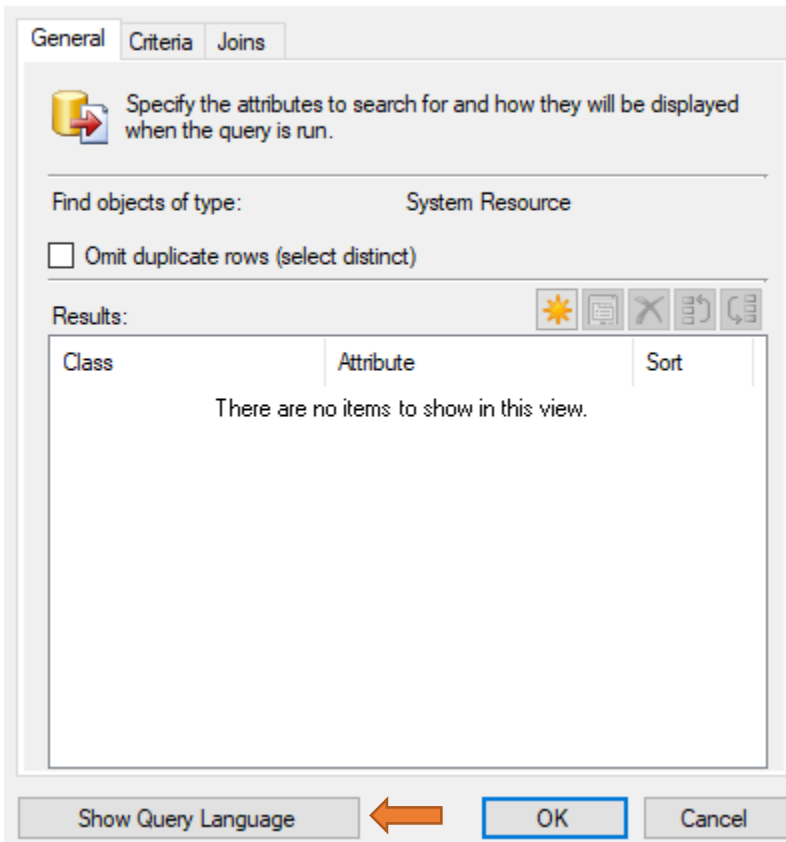
Not collection limited

Limit to collection:

Prompt for collection

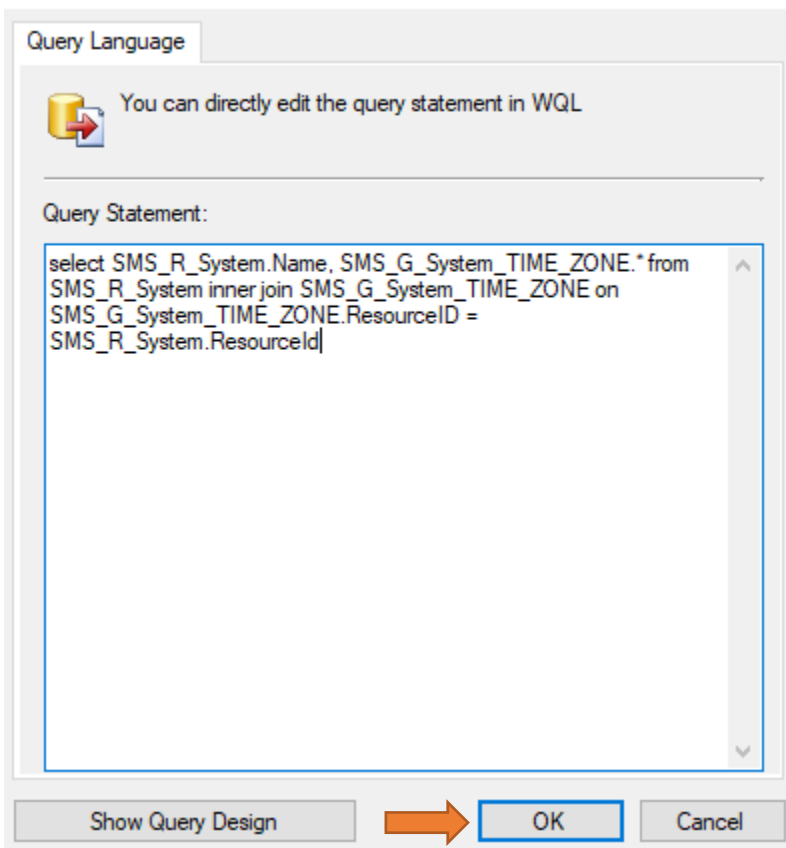
< Previous **Next >** Summary Cancel

Time Zone - Clients and Servers Query Statement Properties



select SMS_R_System.Name, SMS_G_System_TIME_ZONE.* from SMS_R_System inner join SMS_G_System_TIME_ZONE on SMS_G_System_TIME_ZONE.ResourceID = SMS_R_System.ResourceID

Time Zone - Clients and Servers Query Statement Properties





- General
- Summary
- Progress
- Completion

General Query Settings

Name:

Comments:

Object Type:

Collection Limiting

Not collection limited

Limit to collection:

Prompt for collection



- General
- Summary
- Progress
- Completion

Confirm the settings

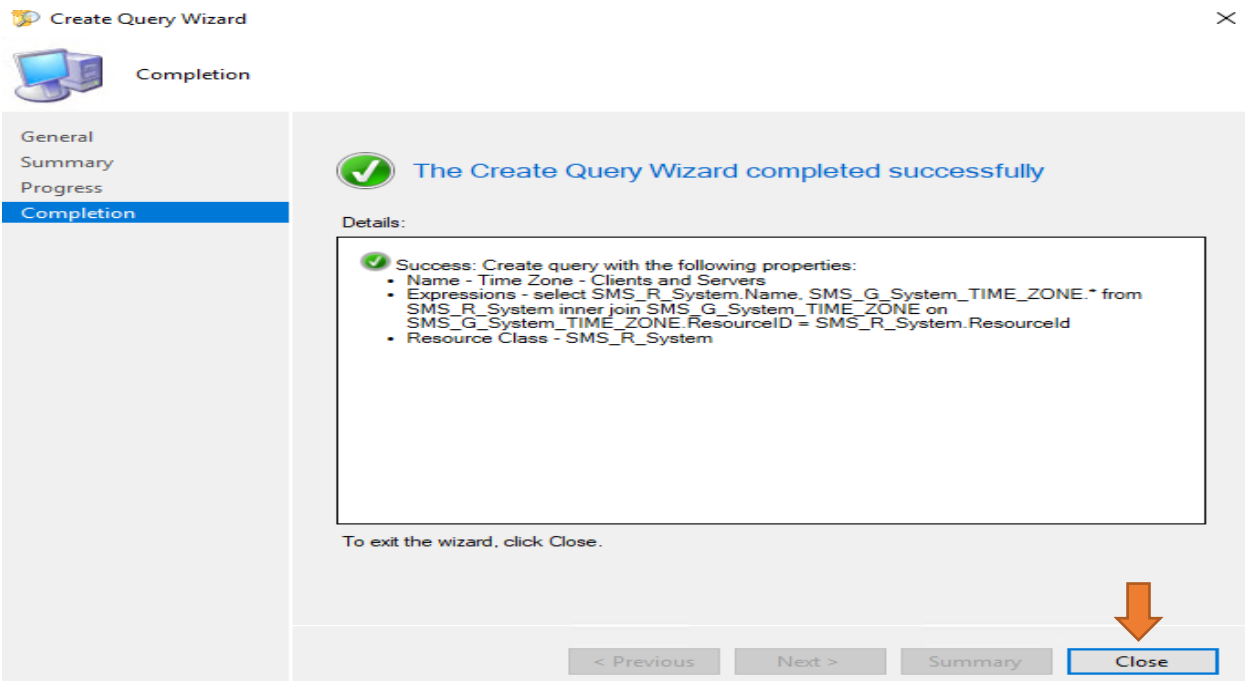
Details:

Create query with the following properties:

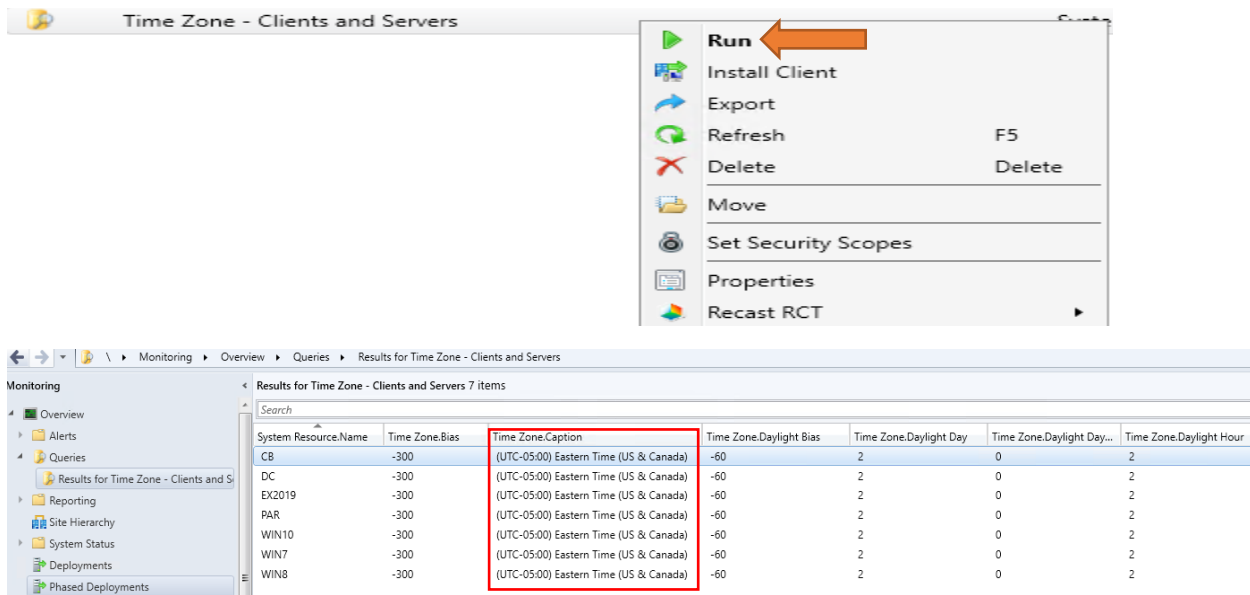
- Name - Time Zone - Clients and Servers
- Expressions - select SMS_R_System.Name, SMS_G_System_TIME_ZONE.* from SMS_R_System inner join SMS_G_System_TIME_ZONE on SMS_G_System_TIME_ZONE.ResourceID = SMS_R_System.ResourceID
- Resource Class - SMS_R_System

To change these settings, click Previous. To apply the settings, click Next.





Now run the query we just created.



Furthermore, the TimeZone.DaylightBias value is stored as part of the value for TZI for that time zone in the Windows registry.

In relation to the UTC time and the local time of the time zone, UTC time is the result of adding the Bias and DaylightBias to the local time. For example, in a state adopting daylight time in the Pacific time zone, the Bias is 480 minutes and DaylightBias is -60 minutes.

To determine the time in UTC for June 11, 2 A.M. PST, add a Bias of (480/60) hours and a DaylightBias of -(60/60) hours to the local time June 11, 2 A.M. The time in UTC is June 11, 9 A.M.

Thanks

Ram Lan
24th Feb 2020