Query SWIS with PowerShell

Add-PSSnapin SwisSnapin

Get-Credential

Connect-Swis -Credential $creds -Hostname localhost

Get-SwisData $swis 'SELECT nodeID, Caption FROM Orion.Nodes Where Vendor=@v' @{v='Cisco'}

Invoke-SwisVerb $swis Orion.Nodes Unmanage @("N:1",$now,$later,"false")

The **Invoke-SwisVerb** cmdlet argument lists support XmlElement objects from **Orion SDK 1.5**. If your scripts rely on the original behavior, update them to use the **InnerText** property of the returned element.

Installing SWIS PowerShell

choco install orionsdk -y

C:\Windows\Microsoft.NET\Framework\v-4.0.30319\InstallUtil.exe 'C:\Program Files\SolarWinds\Orion SDK\SWQL Studio\SwisPowerShell.dll'

C:\Windows\Microsoft.NET\Framework64-\v4.0.30319\InstallUtil.exe 'C:\Program Files (x86)\SolarWinds\Orion SDK\SWQL Studio\SwisPowerShell.dll'

If you installed the Orion SDK to a different folder, adjust the path to **SwisPowerShell.dll** accordingly.
The same DLL works in both 32- and 64-bit shells, but you have to register it separately for each context.
Don't forget that you need to run the Powershell as Administrator.

SWQL supported constructs

SELECT ... FROM ...

WHERE

GROUP BY ... HAVING ...

ORDER BY

INNER JOIN

LEFT/RIGHT OUTER JOIN

UNION

UNION ALL

SELECT TOP n

SELECT DISTINCT

Subqueries in SELECT

Subqueries in FROM/JOIN

Aggregates SUM, MAX, MIN, AVG, COUNT

Functions ISNULL, ABS

Credit

The cheat sheet was created in conformity with SolarWinds Orion SDK 1.5.

SWQL unique

Navigation Properties

SELECT I.Caption, I.Node.Contact FROM Orion.NPM.Interfaces I WHERE I.TypeName='ieee80211'

Row Windows

SELECT NodeID, Caption, IPAddress, Status FROM Orion.Nodes ORDER BY Caption WITH ROWS 100 TO 199

SWQL - NOT SUPPORTED

SELECT * FROM	You must list the actual properties you want to select.
UPDATE, INSERT, DELETE	You can only use SWQL to read data

You must use CRUD operations to create, read, update, or delete entities.