# SysTrack
# User Guide

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# Loading SysTrack

Run PowerShell as an administrator (domain account) and change directory to where the script resides. As an example, if the script directory is in the root of your C:\ drive you would type cd C:\SysTrack in PowerShell. To run the program just type .\systrack.ps1 in PowerShell. A Security Warning will appear because of a third party module that is used to establish SSH connections with network devices. Type R to run the module, or install it on your system to never see this again, and the SysTrack window will appear.

If you have version 4.0 of the .NET framework instead of 3.5 you will need to modify this line at the top of the script:

Add-Type -Path ".\Modules\Renci.SshNet35.dll"

The path should read ".\Modules\Renci.SshNet.dll" with the 35 removed. This will ensure you are linked to the proper library for the SSH-Sessions module.

# Modifying Settings

Click the settings button and input your domain and computer OU information. The path to the OU needs to be entered in a reverse dotted notation starting from the OU and working back to the top level OU. For example, if your computer names are stored in **MarketingDept -> FloorOne -> Workstations** you will need to enter **Workstations.FloorOne.MarketingDept**. Click "Save Settings" to save this information. You will see two buttons called "Modify Layer 3 Switch List" and "Modify Layer 2 Switch List". Clicking on these buttons will open two lists in Notepad. Enter the IP addresses of your switches line by line in these lists. An example is already set in the files provided; simply replace them with your own switch IPs.

# Taking Inventory

Now that your settings are in place you can start taking inventory. Click the button "Start Inventory" to begin the process. You will see a progress bar appear in the PowerShell console displaying what system is currently being scanned. The program takes all the computer names from your Computer OU setting and collects the Computer Serial and Hard Drive Serial of each. It may take a while for this task to finish depending on how many systems you support. The application window will go into a Not Responding state while the scan is in progress.

# Tracking Systems

Sometimes you may not know where a system resides on your physical network. SysTrack is able to find a system's location and tell you what switch and port it resides on enabling you to track it down more quickly. Simply select a computer name from the SysTrack window and click "Locate System". The first time you do this you will be asked for credentials. You must enter your TACACS credentials for the remote switch. Your credentials will be stored, password encrypted, for later use so you will not have to enter them again. You will see how the system is traced in the PowerShell console and when it is found an alert box will appear telling you where the system is on your network. If it is unable to find it you will be alerted to that as well. Keep in mind that while SysTrack is locating a system the window will go into a "Not Responding" state but output will still be displayed to the PowerShell console. It is recommended to keep your eye on the console.

# Importing and Exporting Inventories

Since performing a new inventory can take up a lot of time, SysTrack allows you to import and export inventories that have already been completed. When you export an inventory it will be saved in CSV format allowing you to open it in other programs such as Microsoft Office Excel. When you import an inventory it will appear just as it did before you exported it giving you the ability to quickly locate systems without needing to rescan the network.

# Known Bugs

1. When exporting inventories you cannot write over one that already exists. For some reason the program halts and crashes if you attempt to overwrite another inventory file. This may be caused by the *Export-CSV* cmdlet in trying to first open the file then write or append the information to fields that already exist. It is best to just give the new inventory file a different name; maybe you can append the date to it.

# About SysTrack

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Third Party Modules Used: SSH-Sessions
([http://www.powershelladmin.com/wiki/SSH_from_PowerShell_using_the_SSH.NET_library](http://www.powershelladmin.com/wiki/SSH_from_PowerShell_using_the_SSH.NET_library))