# TTP Detail – T1013

## TTP Information

Name: Port Monitors

Description: A port monitor can be set through the (Citation: AddMonitor) API call to set a DLL to be loaded at startup. (Citation: AddMonitor) This DLL can be located in <code>C:\Windows\System32</code> and will be loaded by the print spooler service, spoolsv.exe, on boot. The spoolsv.exe process also runs under SYSTEM level permissions. (Citation: Bloxham) Alternatively, an arbitrary DLL can be loaded if permissions allow writing a fully-qualified pathname for that DLL to <code>HKLM\SYSTEM\CurrentControlSet\Control\Print\Monitors</code>.   
  
The Registry key contains entries for the following:  
  
\* Local Port  
\* Standard TCP/IP Port  
\* USB Monitor  
\* WSD Port  
  
Adversaries can use this technique to load malicious code at startup that will persist on system reboot and execute as SYSTEM.

## Threat-Mapped Scoring

Score: 0.0

Priority: Unclassified

## Kill Chain Phases

**•** mitre-attack: persistence

**•** mitre-attack: privilege-escalation