CapaInstaller Utilization Index

Web Site	Document
www.performanceguard.dk	**CUI PG Agent Reference Manual**

Introduction

CapaInstaller Utilization Index (CUI) is a module in **CapaInstaller** that uses **Performance Guard (PG)** technology to monitor the resource utilization on all client PC's.

To use the CUI module you must

1. Aquire a CapaInstaller license for the CUI module
2. Deploy a "PerformanceGuard" CapaInstaller software package to the clients

Read more about Getting started with Performance Guard integration to CapaInstaller

What is deployed

The software package deployed to end user clients will run the script "PerformanceGuard.cis" which will

1. Install a Performance Guard agent to client PC
2. Configure the Performance Guard agent to run in standalone mode (without access to a PG server)
3. Start the Performance Guard Agent

What is configured

The PG agent configuration is located in Windows registry at the following location:

OS Type	Registry Key Name
32-bit	HKEY_LOCAL_MACHINE\SOFTWARE\Premitech\E2EAgent
64-bit	HKEY_LOCAL_MACHINE\SOFTWARE\Premitech\E2EAgent

The following registry parameter values are set explicitly by the CUI installation script:

Parameter	Value
CMSInterface	CMSMaxFiles=1120 CMSDir=CMS CMSReportTime=180
Configuration	ReportInterval=60 DynamicMachineReport=true DiskIOReport=true ProcessStatInterval=5 ContextSwitchPerProcess=false ServerMetrics=true CollectOSStart=true DoFullStartupReport=false StartupTimeoutSecs=300 StartupCondition=<PROCESS; winlogon; started> and <SERVICE; GUARDagent; started; "Performance Guard Agent"> LoginStartCondition=<SESSION; logon> LoginEndCondition=<PROCESS; GUARDagent; started> and <PROCESS; explorer; started> and <CPU; explorer; below; 10> CMSEnabled=true CMSForced=false GUIMode=NoIcon UDPReport=false TCPReport=false AllowWFICATest=false
ConfigurationId	0

What is measured

The Performance Guard agent will measure information about

- **PC Startup Time** (Time of Boot and Duration of Boot Sequence)
- **User Login Time** (Time of Login and Duration of Login)

- **Startup Report** Ressource usage report for all processes started during the PC boot sequence
- **Utilization Index** (a value from 0% to 100%) representing the percentual utilization of CPU, Disk, Network and Memory ressources

Where is the data located

The measured information will be stored in XML-files on the local disk. The file are named PFDatannnnnnnnn.xml where nnnnnnnnn is a timestamp.

The files are be placed here by default:

Client Operation System	Data File Location
Windows XP	C:\Documents and Settings\All Users\Application Data\CMS
Windows Vista	C:\ProgramData\CMS
Windows 7	C:\ProgramData\CMS

Hers's an example XML file: PFData1304352120.xml

Using CUI in a PG environment

When using CUI in a mixed CapaInstaller and PG environment, the PG agents must first be deployed using the standard deployment procedure for PG agents. This is because the agents must be configured to use a PG server.

When the PG agents are deployed and connected to the PG server you can rollout the CUI package.When using CUI in a PG environment you may take control over the CMS parameters from the PG web console. If you go to Administration -> Agent -> Configuration and edit an agent configuration you will the following options:

Known Issues

Problem: There's no startup time or login time data avaiable in CMS
Solution: In PG agents prior to version 5.8 there was a bug that caused some clients to fail measuring startup and login. Make sure to upgrade to a CUI package with a newer version of the PG agent.

Problem: Even when using a new PG agent there's still no startup time available in CMS.
Solution: Due to a bug in the CUI installation script you must upgrade to the CUI package available from CMS Service Update 2 - 2011. More specifically the startup condition was never met because the agent was configured to monitor a wrong service name for the PG agent service.

Problem: Startup time shows as 300 seconds in CMS
Solution: Due to a bug in the CUI installation script you must upgrade to the CUI package available from CMS Service Update 2 - 2011. More specifically startup times of 300 seconds (the timeout value) was reported to CMS in all cases where the startup measurement failed. Related to the above issue.