System stats change in Resource Usage reports

Many of the system total fields for a target agent are based on the latest known configuration at the latest period of the report window. For example, in the Resource Usage report, # of CPUs, memory size, swap size, CPU utilization and memory utilization take the available capacity at the end of the reporting window as the baseline figure for total capacity. Configuration changes on the system and rescanning of the host in question during the time range included in the report may change these values, even if the collected performance data is unchanged.

This scenario would potentially produce a report of the same data that shows different values depending on the report timeframe. For example:

Configuration Changes

Change Detected   Change Description

2010-01-27 15:04:43   Memory size changed from 18874368kB to 4194304kB

2010-01-27 11:18:54   Memory size changed from 4194304kB to 18874368kB

2010-01-27 09:15:01   Memory size changed from 18874368kB to 4194304kB

2010-01-27 06:47:17   Memory size changed from 4194304kB to 18874368kB

If we were to run a report on Jan 27 for the system with the above configuration changes, we would see that some reports show memory at 18 Gb, some at 4 Gb and the average as n/a.