

## Benchmarking

The Themis product benchmarks provide a simple method of comparing the performance of product and systems with similar properties across comparable architectures. The benchmarking can be helpful in understanding how the SIM manager corresponds to various products, both on terms of competitiveness but also in terms of integration between modern heterogeneous environments.

The purpose of the Themis product benchmarking is to address typical questions that we get asked, see below:

- Are the tools user friendly?
- Is the documentation clear and understandable?
- Is installation straightforward?
- What is the "out of the box" experience?
- Is it easy to understand the technical architecture?
- How do the tools compare to what the competitors are offering?

The products are graded by a careful evaluation of functionality and feasibility in a number of selected areas. All systems have been tested on the same platforms and under the same environmental conditions.

The Benchmarking Triangle below illustrates the common paradigm used for the benchmarking tests



The grading is done in almost a binary way - giving the evaluated function only a (+) or a (-) - thus identifying whether the grading is there or not and therefore be considered as non-compliant to a more detailed and formal capacity measurement process.

The tools have been evaluated with respect to a non-educated first-time user's perception and his/her actual experiences with the different tools, and we have therefore found the single grading most efficient. It is however recognised that continued experiences and formal education in the respective tools could change the functionality in the products, but it is believed there will be marginal impact on the final benchmarking results.

In a full evaluation process the subjectivity of any benchmarking process must be taken into account. The process can and will only base its evaluation criteria on the actual tested and documented functionalities. Thereby the process recognizes, but does not take into account possible other 'non-tested' similar functionality in the various different software-products. Equally there could be other tools not included in this benchmarking process, which could possibly deliver more breadth and depth into the process, but due to time-limitations these benchmarks have concentrated on the, to our best knowledge, 2006 globally market leading software products. All of these benchmarking results should always be used as only a minor part of a more complete corporate evaluation and selection process, in order to ensure the right investment in the right protection tool.

## Benchmarks

Total Scores	Points	Evaluation
Themis System Information Manager Suite	60	★★★★★
IBM Consul Risk Management Suite	39	★★★★
Arcsight ESM Security Suite	37	★★★★
Trinamo Exaprotect Security Management Suite	36	★★★★
NetIQ Security Manager Suite	32	★★★
Sophos end Point Security and Control suite	32	★★★
McAfee System Security Solution Suite	29	★★
Symantec SSIM and Client Security Suite	27	★★

### Operational Time and Feasibility example

	McAfee	Sophos	Symantec	NetIQ	Themis
Log-On Full scan of C: Drive (system snapshot)	7.25min	8.44min	9.29min	6.41min	1.22min
Second On Demand Scan of C drive (post cache)	7.21min	3.14min	4.37min	2.12min	12sec
On Demand Scan single folder (544MB, no zip folders)	29 sec	27 sec	37 sec	44sec	7 sec



Software assests	System Keys (MS) management	-	-	-	-	-	-	-	+
Policy Compliances	Application manifest tool	-	-	-	-	+	-	-	+
License Control	License meetering tools	-	-	-	-	-	+	+	+
Security Management	Overall Security management capability	10	13	10	10	14	13	13	24
User Behaviour capacity	File & folder access and content	+	+	+	+	+	+	+	+
	application and system access	+	+	+	+	+	+	+	+
	data access and manipultaion	+	+	+	+	+	+	+	+
	registry access and change	+	+	+	+	+	+	+	+
	share and web (inter-intra-extranet) access	+	+	+	+	+	+	+	+
	remote storage access and filestructures	-	-	-	-	-	-	-	+
	USB/Firewire/CD-DVD access and filestructures	-	-	-	-	-	-	-	+
User Analysis capacity	Meta Data management (snapshots)	-	+	-	-	+	+	+	+
	User Assist Analysis	-	-	-	-	-	-	-	+
	Stream MRU analysis	-	-	-	-	-	-	-	+
	Shellbags analysis	-	-	-	-	-	-	-	+
	COMdlg 32 analysis	-	-	-	-	-	-	-	+
	Windows Protected Storage analysis	-	-	-	-	-	-	-	+
	Windows Prefetch analysis	-	-	-	-	-	-	-	+
	Webbrowser analysis	+	+	+	+	+	+	+	+
	Recycle Bin analysis	-	+	-	-	+	-	-	+
	Drive Content analysis	+	+	+	+	+	+	+	+
	OS analysis	+	+	+	+	+	+	+	+
	Network settings analysis	+	+	+	+	+	+	+	+
Key Log scanning	full intext content scanning	-	-	-	-	-	-	-	+
Forensic scanning	full behavioural scanning	-	+	-	-	+	+	+	+
System scanning	full system asset scanning	-	-	-	-	+	+	+	+
Drives scanning	full drive structure and content scanning	+	+	+	+	+	+	+	+
File Compare	Rapid metadata file compare and change functions	-	-	-	-	-	-	-	+
<b>Compliance Management</b>	<b>Overall Compliance management capability</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4</b>
Patch Management	Hotfixes and update documentation	+	+	+	+	+	+	+	+
Application Version Control	Application versions and date documentation	-	-	-	-	+	+	+	+
USB connections	Realtime USB connection and content documentation	-	-	-	-	-	-	-	+
User Behaviours	complex user profiling documentation	+	-	-	-	+	+	+	+
<b>Real Time Monitoring</b>	<b>Overall Monitoring capability</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
	realtime client scanning	+	-	-	-	+	+	+	+

	realtime network scanning	-	+	+	+	+	+	+	+
	triggered alerting	+	+	+	+	+	+	+	+
<b>Reporting</b>	<b>Overall Reporting capability</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>
	Summary report	+	+	+	+	+	+	+	+
	Report wizard	+	-	-	+	+	-	-	+
	Common XML formats	+	+	+	+	+	+	+	+
<b>Total</b>	<b>Total Benchmark figure</b>	<b>32</b>	<b>32</b>	<b>27</b>	<b>29</b>	<b>39</b>	<b>37</b>	<b>36</b>	<b>60</b>

*\*<http://en.wikipedia.org/wiki/Benchmarking> and Harrington, H.J. The Complete Benchmarking Implementation Guide: Total Benchmarking Management. New York: McGraw-Hill, 1996.*

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