



SIMMT
UČINKOVITE SISTEMSKE REŠITVE

Tivoli nadzorna orodja v praksi

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Medvode, 27. november 2007

Zakaj to potrebujemo?

- Zaradi odvisnosti od IT storitev
- Zaradi proaktivnega upravljanja incidentov
- Enotnega pogleda v delovanje naših IT storitev
- Zaradi enostavnejšega/transparentnega planiranja investicij
- Zaradi zmanjševanja stroškov organizacije in povečanja produktivnosti
- Zaradi povečanja naše konkurenčne prednosti

IBM Tivoli Monitoring

- Skalabilna in visokozmogljiva arhitektura
- Arhitektura je neodvisna od operacijskih sistemov
- Različni tipi odjemalcev
 - Za nadzor operacijskih sistemov in aplikacij (varna povezava)
 - Za nadzor poljubnih naprav preko SNMP, ODBC, API, SCRIPT, LOG
 - Za poglobljen nadzor spletnih aplikacijskih strežnikov (odkrivanje napak v kodi, spremljanje obnašanja uporabnikov....)
- Vse aktivnosti se izvajajo v enem upraviteljskem vmesniku (nastavitve, prilagoditve, pregled dogodkov v realnem in historičnem času...)
- Visoka prilagodljivost....

View: Physical

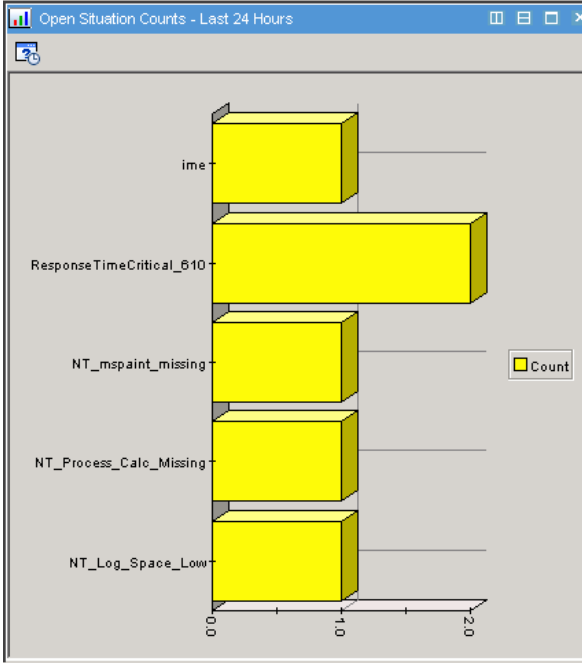
Enterprise

Physical

Situation Event Console

Total Events: 3 | Item Filter: Enterprise

Severity	Status	Owner	Situation Name	Display Item	Source	Impact
Warning	Open		NT_Log_Space_Low		Primary:WIN2K3:NT	System
Critical	Open		ResponseTimeCritical_610	4236f3ef4335a03f02ec5153cd65105d	D4::soademo-J2EEClient	Performance Summary
Critical	Open		ResponseTimeCritical_610	b3c5bb59275371e956d649693a0259d5	D4::soademo-J2EEClient	Performance Summary



My Acknowledged Events

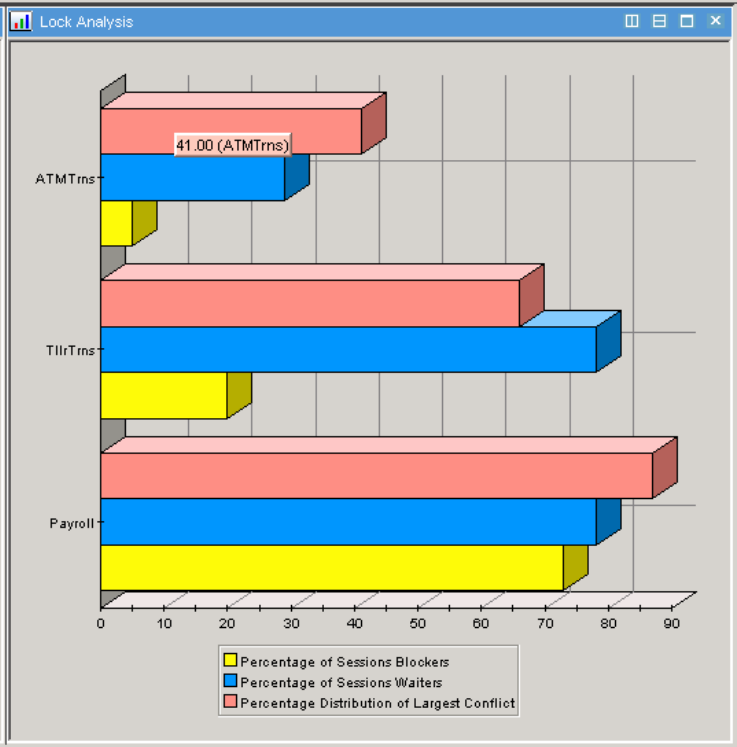
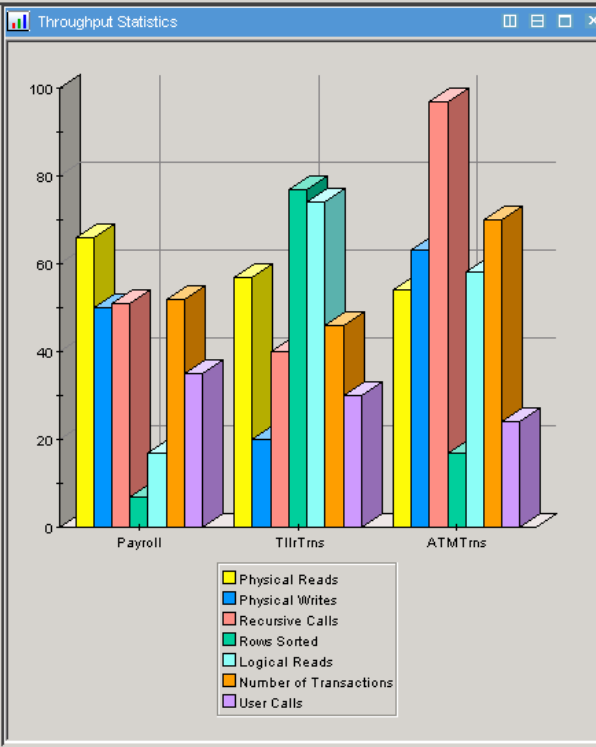
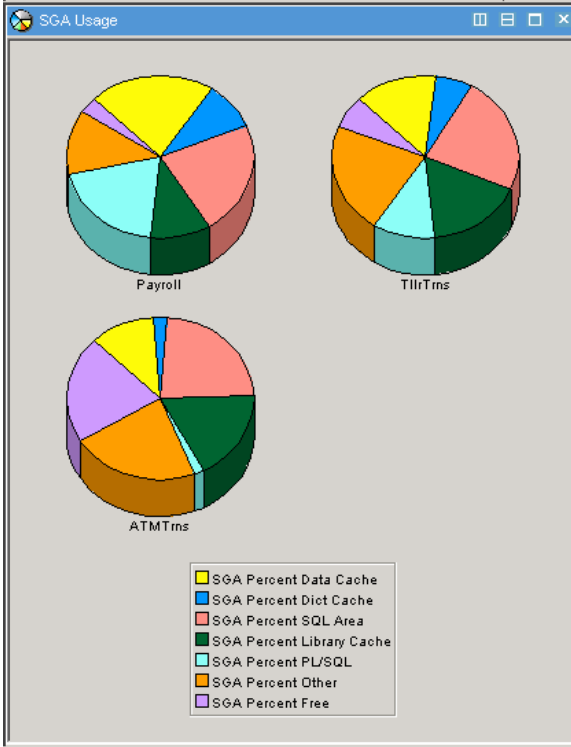
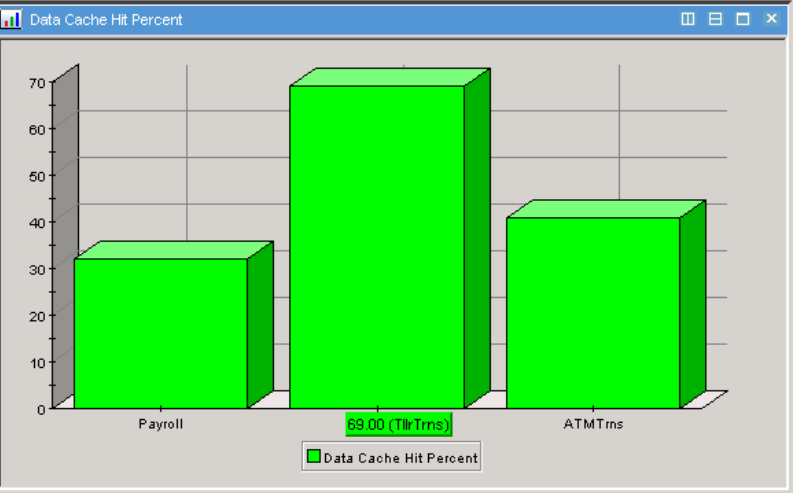
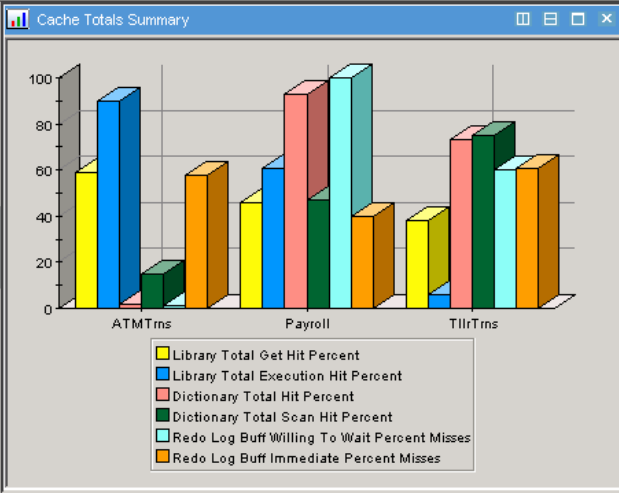
Severity	Status	Owner	Situation Name	Display Item	Source	Impact	Opened	Local Timestamp	Type
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Message Log

Status	Name	Display Item	Origin Node	Global Timestamp	Local Timestamp	Node
Open	ime		Primary:WIN2K3:NT	11/27/07 11:42:26	11/27/07 11:42:26	HUB_WIN2
Open	NT_Log_Space_Low		Primary:WIN2K3:NT	11/27/07 11:42:26	11/27/07 11:42:26	HUB_WIN2
Open	ResponseTimeCritical_610	b3c5bb59275371e956d649693a0259d5	D4::soademo-J2EEClient	11/27/07 11:37:26	11/27/07 11:37:26	HUB_WIN2
Open	ResponseTimeCritical_610	4236f3ef4335a03f02ec5153cd65105d	D4::soademo-J2EEClient	11/27/07 11:37:26	11/27/07 11:37:26	HUB_WIN2
Open	NT_mspaint_missing		Primary:WIN2K3:NT	11/27/07 11:33:27	11/27/07 11:33:26	HUB_WIN2
Open	NT_Process_Calc_Missing		Primary:WIN2K3:NT	11/27/07 11:33:26	11/27/07 11:33:26	HUB_WIN2

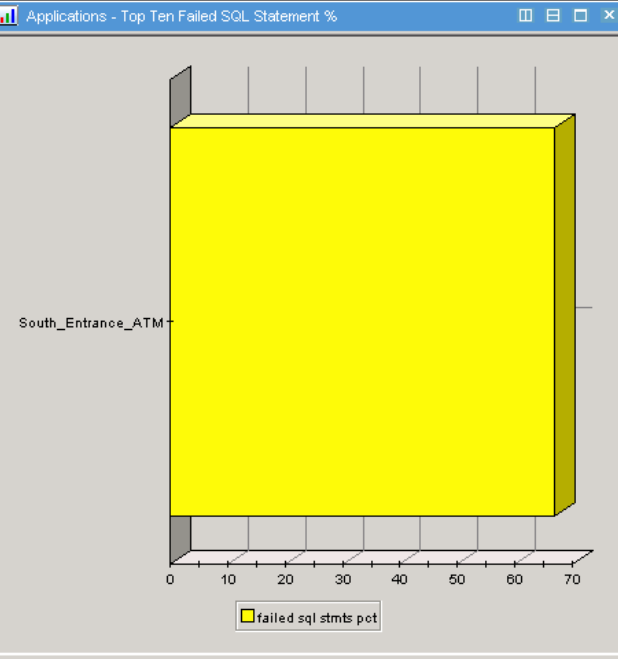
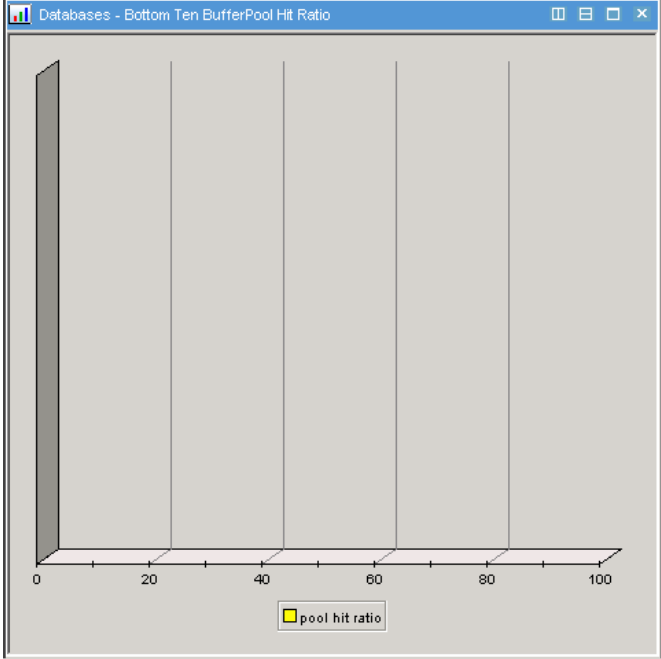
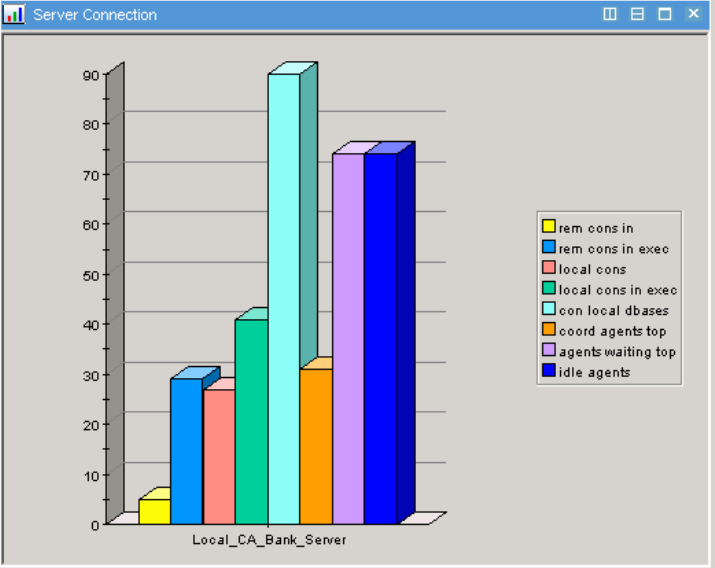
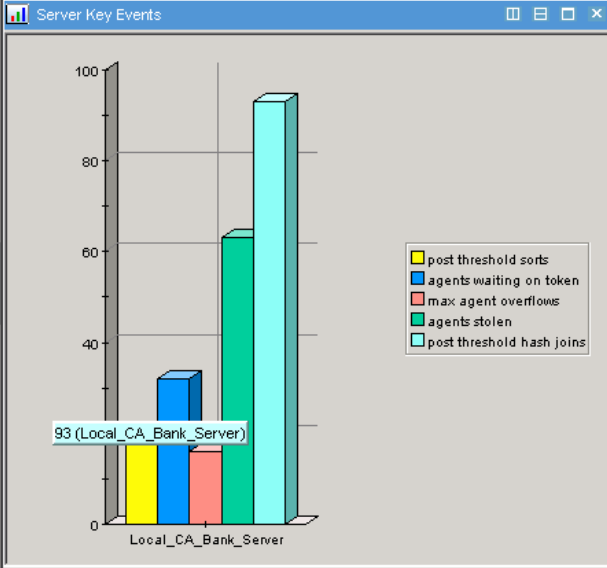
View: Physical

- zVM Linux Systems
- WIN2K3
 - Microsoft Exchange Server
 - Microsoft SQL Server
 - MS Cluster Server
 - Oracle
 - Alert Log
 - Cache Totals
 - Contention
 - Databases
 - Logging
 - Processes
 - Servers
 - Sessions
 - System Global Area
 - Sybase server
 - z/OS Systems



View: Physical

- GLDVICOM
 - Active Directory
 - Citrix
 - DB2 - WIN2K3:UD
 - Application
 - Database
 - System Overview
 - Locking Conflict
 - Buffer Pool Activity
 - Table Space
- IBM Information Management
- ITCAM for RT - Web Response Time
- ITM 5.x Endpoint - Resource Model Data
- ITM 5.x Endpoint - WebSphere Monitor
- Linux OS
- Lotus Domino
- MS .NET Framework
- MS Virtual Server
- mySAP Agent - WIN2K3:SA
- QI Agent
- Services Management Agent



Server Status

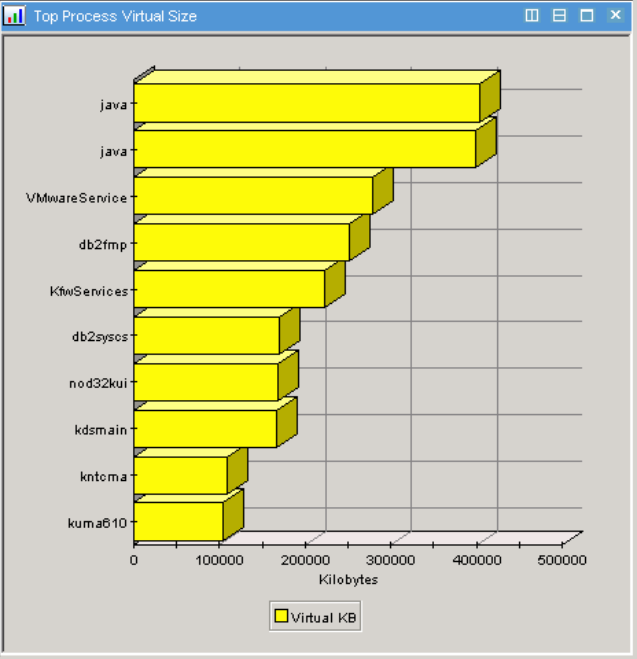
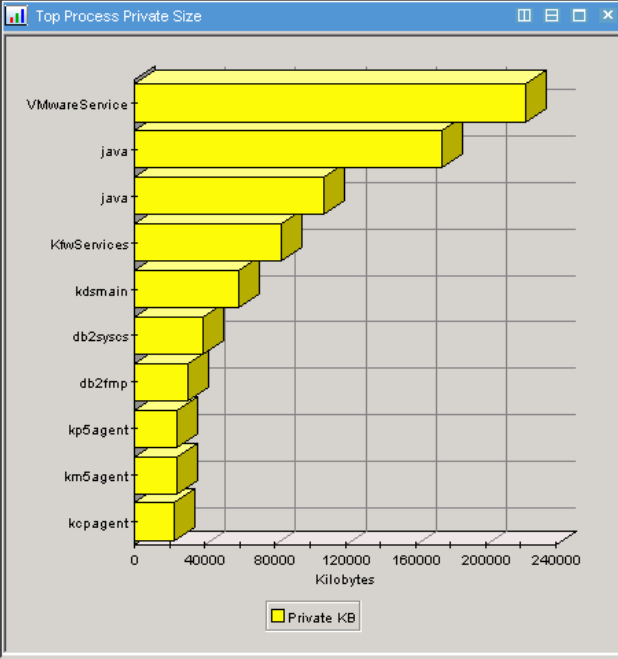
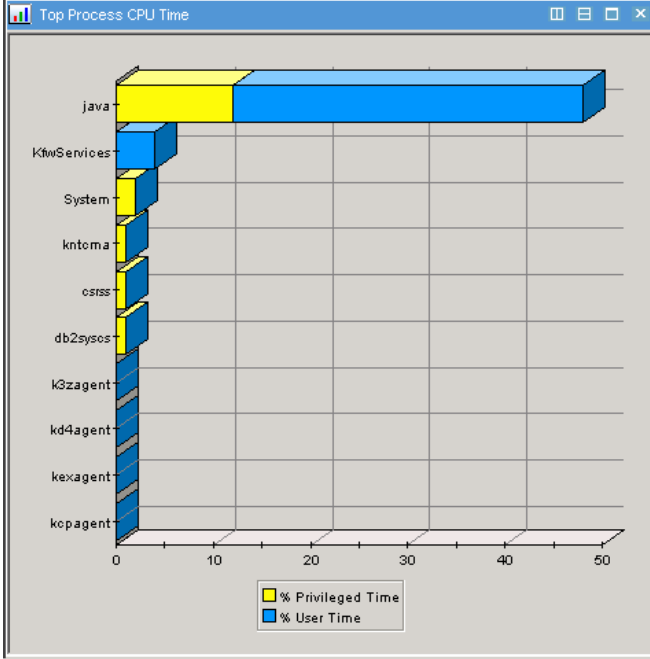
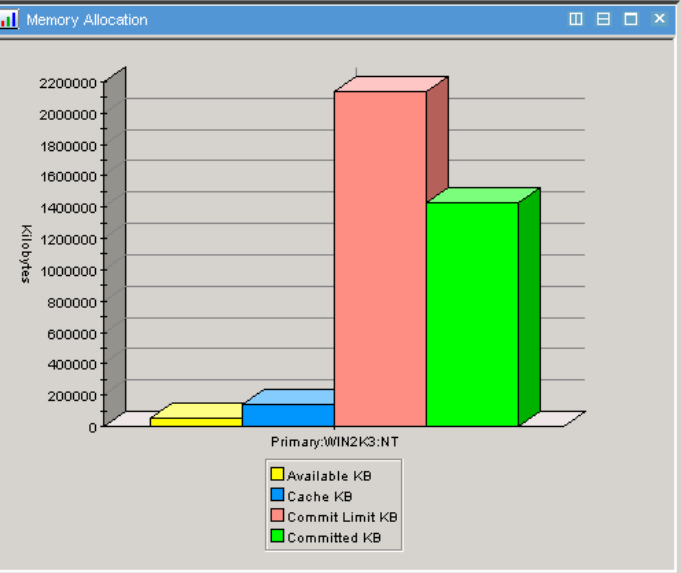
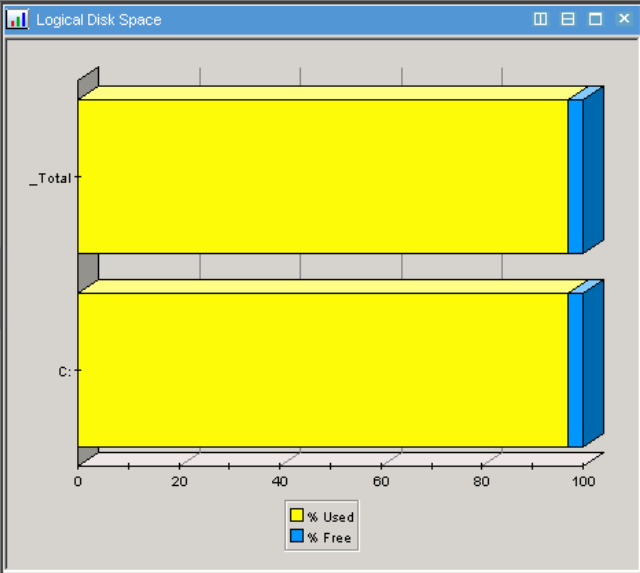
db2 status	db2start time	last reset	snapshot time	prcid	in:
Active	10/25/2005 7:00	10/25/2005 7:00	10/31/2005 9:00	8.2	Lo

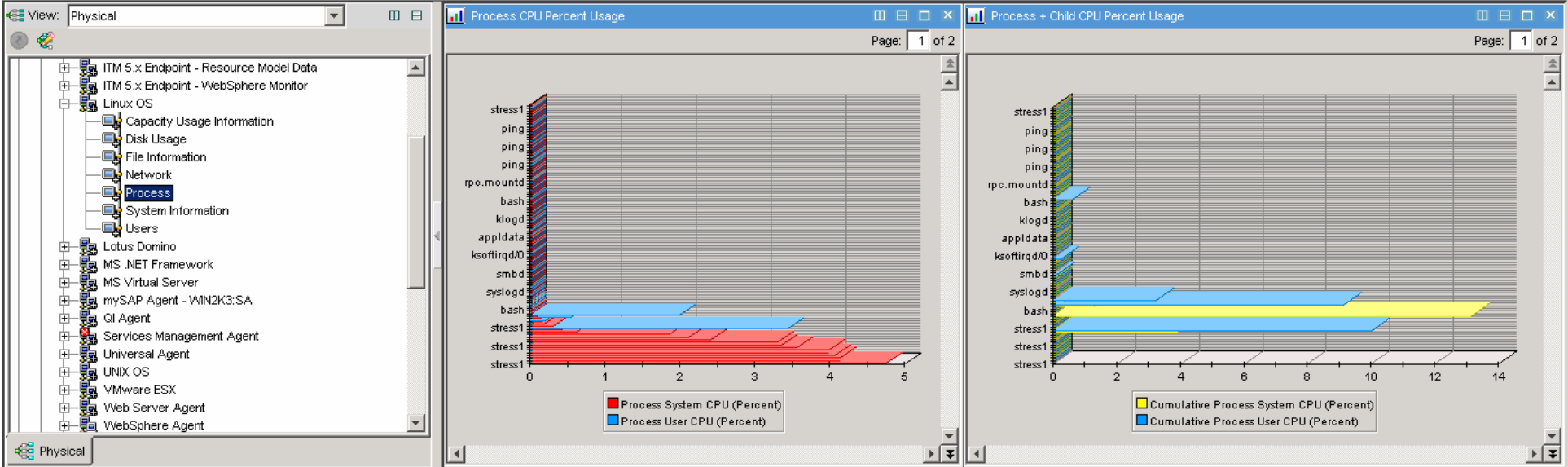
Locking Conflict

agent id	appl name (Unicode)	appl status	snapshot time	auth id (Unicode)
34	South_Entrance_A...	Connected	10/29/2005 9:00	db2admin

View: Physical

- MS Virtual Server
 - mySAP Agent - WIN2K3:SA
 - GI Agent
 - Services Management Agent
 - Universal Agent
 - UNIX OS
 - VMware ESX
 - Web Server Agent
 - WebSphere Agent
 - Windows OS
 - Disk
 - Enterprise Services
 - Memory
 - Network
 - Printer
 - Process
 - Processor
 - System
 - z/VN Linux Systems
 - WIN2K3
 - Microsoft Exchange Server





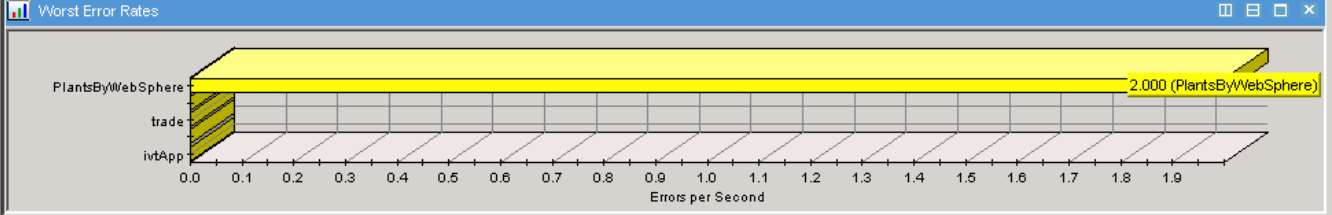
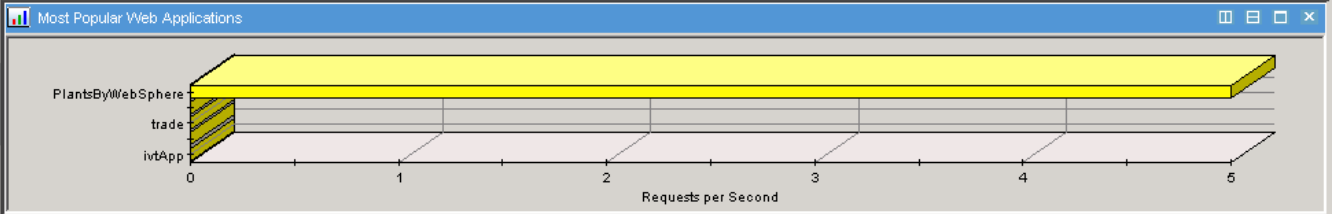
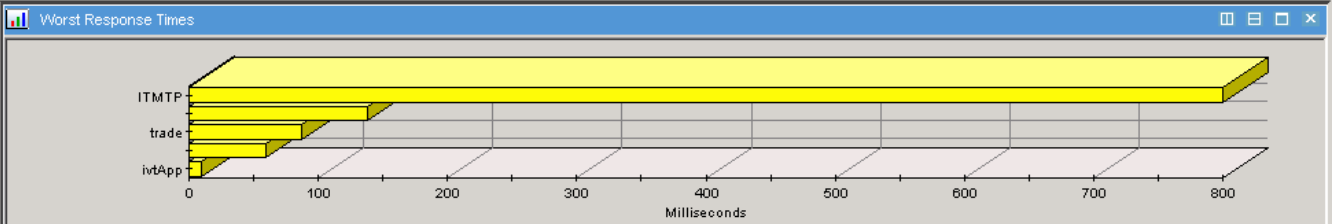
Process Information Detail

Process Command name (Unicode)	Process ID	Process Parent ID	Process State	Process System CPU (Percent)	Process User CPU (Percent)	Cumulative Process System CPU (Percent)	Cumulative Process User CPU (Percent)	Kernel Priority	Nice Value	Total Size(pages)	Resident Set Size(pages)	Shared Memory(pages)	Text Resident Set(pages)	Shared Lib Resident Set(pages)	Data Resident Set(pages)	Process Dirty Pag
stress1	12789	12767	Disk	4.76	0.00	0.00	0.00	18	0	488	23	0	8	0	480	
stress1	12786	12767	Disk	4.15	0.00	0.00	0.00	18	0	488	23	0	8	0	480	
stress1	12787	12767	Disk	4.15	0.00	0.00	0.00	18	0	488	23	0	8	0	480	
stress1	12788	12767	Disk	4.07	0.00	0.00	0.00	18	0	488	23	0	8	0	480	
stress1	12773	12767	Disk	4.00	0.00	0.00	0.00	18	0	488	23	0	8	0	480	
stress1	12781	12767	Disk	4.00	0.00	0.00	0.00	18	0	488	23	0	8	0	480	
stress1	12778	12767	Disk	3.57	0.00	0.00	0.00	18	0	488	23	0	8	0	480	
stress1	12779	12767	Disk	3.36	0.00	0.00	0.00	21	0	488	23	0	8	0	480	
stress1	12780	12767	Disk	3.31	0.00	0.00	0.00	18	0	488	23	0	8	0	480	
stress1	12772	12767	Disk	2.42	0.00	0.00	0.00	18	0	488	23	0	8	0	480	
stress1	12793	12768	Disk	2.12	0.00	0.00	0.00	18	0	744	282	3	8	0	736	
stress1	12801	12767	Disk	1.87	0.00	0.00	0.00	17	0	488	23	0	8	0	480	
stress1	12766	12765	Sleeping	0.63	0.00	3.94	10.01	18	0	488	49	26	8	0	480	
sshd	12172	12169	Sleeping	0.44	3.45	0.00	0.00	15	0	2356	228	0	94	0	2262	
stress1	12767	12765	Sleeping	0.31	0.00	0.00	0.00	18	0	488	48	25	8	0	480	
sftp-server	12173	12172	Sleeping	0.20	0.04	0.00	0.00	15	0	1474	233	0	11	0	1463	
klzagent	11655	1	Sleeping	0.16	0.21	0.00	0.00	16	0	17688	1336	142	198	0	17490	
klzagent	12726	1	Zombie	0.15	0.55	0.00	0.00	16	0	0	0	0	0	0	0	
stress1	12768	12765	Sleeping	0.10	2.00	13.15	0.00	18	0	744	284	5	8	0	736	
pdflush	12442	4	Disk	0.01	0.00	0.00	0.00	15	0	0	0	0	0	0	0	
pdflush	12392	4	Disk	0.01	0.00	0.00	0.00	15	0	0	0	0	0	0	0	
bash	12100	12097	Sleeping	0.00	0.01	0.01	0.00	15	0	1045	200	0	153	0	892	
bash	12192	12191	Sleeping	0.00	0.01	1.30	9.13	16	0	1228	185	0	153	0	1075	

View: Physical

- VMware ESX
 - Web Server Agent
 - WebSphere Agent
 - WebSphere Application Server
 - Request Analysis
 - Garbage Collection Analysis
 - Log Analysis
 - Pool Analysis
 - Datasources
 - JMS Summary
 - Web Applications**
 - EJB Containers
 - DB Connection Pools
 - J2C Connection Pools
 - Thread Pools
 - Cache Analysis
 - Workload Management
 - Scheduler
 - Web Services
 - Platform Messaging
 - WebSphere Portal Server
- Windows OS
- z/VM Linux Systems
- WIN2K3
- Microsoft Exchange Server

Physical Logical



Web Applications

Enterprise Application Name	Sample Date and Time	Interval (sec)	Request Count	Request Rate (per sec)	Error Count	Error Rate (per sec)	Average Response Time (ms)	Average Concurrent Requests	Servlets Loaded	Servlets Reloaded	Instrumentation Level	Subinstrumentation Level
PlantsByWebSphere	11/27/07 11:50:44	10	115	5.000	15	2.000	60.000	0.000	0	0	Extended	None
ivtApp	11/27/07 11:50:44	10	300	0.000	22	0.000	10.000	0.000	0	0	Extended	None
adminconsole	11/27/07 11:50:44	10	23	0.000	0	0.000	3.000	0.000	0	0	Extended	None
trade	11/27/07 11:50:44	10	30	0.000	8	0.000	87.000	0.000	0	0	Extended	None
ITMTP	11/27/07 11:50:44	10	0	0.000	0	0.000	138.000	0.000	0	0	Extended	None
ITMTP	11/27/07 11:50:44	10	0	0.000	0	0.000	800.000	0.000	0	0	Extended	None
[Summary]	11/27/07 11:50:44	10	0	0.000	0	0.000	173.000	0.000	0	0	Extended	None

Hub Time: Tue, 11/27/2007 11:50 AM

Server Available

Web Applications - WIN2K3 - SYSADMIN

MNZ_TSM - TM-MNZ - SYSADMIN *ADMIN MODE*

File Edit View Help

View: MNZ_TSM

Physical MNZ_TSM MNZ_NOVELL
 MNZ_NAPRAVE MNZ_WINDOWS
 MNZ_LINUX MNZ_LOTUS_DOMINO

Table

All Records	Failed and Missed	Failed Archive logs	% Success
833	0	0	100,00

Število neuspešnih

Uspešnost izvajanja urnikov

100,00

Tipi odjemalcev

TDP Domino LINUX
 NetWare
 Linux86
 DB2

Pregled zasedenosti odjemalcev

NODE NAME	BACKUP MB	BACKUP COPY MB	AI
ESX1	2110	2124	
ESX2	2221	2243	
LINUX-MNZ-APL	85245	85293	
LINUX-MNZ-APL_DOM	218243	218243	
LINUX-MNZ1	83755	83860	
LINUX-MNZ1_DOM	3793620	3793620	
MNZ-01	796319	709079	
MNZ-ARHIV	8932	9052	
MNZ-IMIS1	67121	67177	
MNZ-K1	11424	10869	
MNZ-TSM	8110	5795	
TM-MNZ	10578	10578	
TM-MNZ_DB2	10851	10851	

Prazni trakovi

SV 2

Nerazpoložljivi trakovi

UA 0

Hub Time: Tor, 09/18/2007 11:55 AM Server Available MNZ_TSM - TM-MNZ - SYSADMIN *ADMIN MODE*

start Command P... Manage Tiv... 10.3.208.4... 2 Java la... tsm_zt prtscr.doc -... 11:55

Prilagoditve.....



Web Applications - WIN2K3 - SYSADMIN

Physical View

Most Popular Web Applications

Most Error Rates

Enterprise Application Name	Sample Date and Time	Interval (sec)	Request Count	Request Rate (per sec)	Error Count	Error Rate (per sec)	Average Response Time (ms)	Average Concurrent Requests	Servlets Loaded	Servlets Reloaded	Instrumentation Level	Subinstrumentation Level
PlantsByWebSphere	11/27/07 11:50:44	10	115	0.000	15	0.000	60.000	0.000	0	0	Extended	None
idApp	11/27/07 11:50:44	10	300	0.000	22	0.000	10.000	0.000	0	0	Extended	None
adminconsole	11/27/07 11:50:44	10	23	0.000	0	0.000	3.000	0.000	0	0	Extended	None
trade	11/27/07 11:50:44	10	30	0.000	8	0.000	87.000	0.000	0	0	Extended	None
ITMTP	11/27/07 11:50:44	10	0	0.000	0	0.000	1.36.000	0.000	0	0	Extended	None
ITMTP (Summary)	11/27/07 11:50:44	10	0	0.000	0	0.000	600.000	0.000	0	0	Extended	None
(Summary)	11/27/07 11:50:44	10	0	0.000	0	0.000	173.000	0.000	0	0	Extended	None

Windows OS

is OS

Available_Bytes_Critical
Available_Bytes_Warnin
Bottleneck_Disk
Bottleneck_Memory
Bottleneck_Paging
Bottleneck_Processor
Context_Switches_Sec
Context_Switches_Sec
Disk_Space_Low
Invalid_Logon_Attempt
Log_Space_Low
Logical_Disk_Space_Crit
Logical_Disk_Space_Wa
Memory_Pages_Sec
Memory_Pages_Sec_Lo
Missing_Msdtc_VWarning
Missing_Process
mspanit_missing
Number_Processes_Crit
Number_Processes_Wa
NT_Number_Processes_Wa
NT_Paging_File_Critical
NT_Paging_File_Warning
NT_Percent_Disk_Time
NT_Percent_Disk_Time_Low
NT_Percent_Processor_Time
NT_Percent_Processor_Time
NT_Percent_Total_Proc_Time
NT_Percent_Total_Proc_Time
NT_Physical_Disk_Busy_Crit
NT_Physical_Disk_Busy_Wa
NT_Process_Calc_Missing

Formula

Description

Percent of the Page File in use.

Formula

	% Usage	Pagefile Name (Unicode)
1	>= 80	= _Total
2		
3		

Click inside a cell of the formula editor to see a description of the attribute for that column and to compose the expression.

Add a condition by clicking **Add conditions** and selecting the situations to embed or attributes you want to include.

Situation Formula Capacity 9%

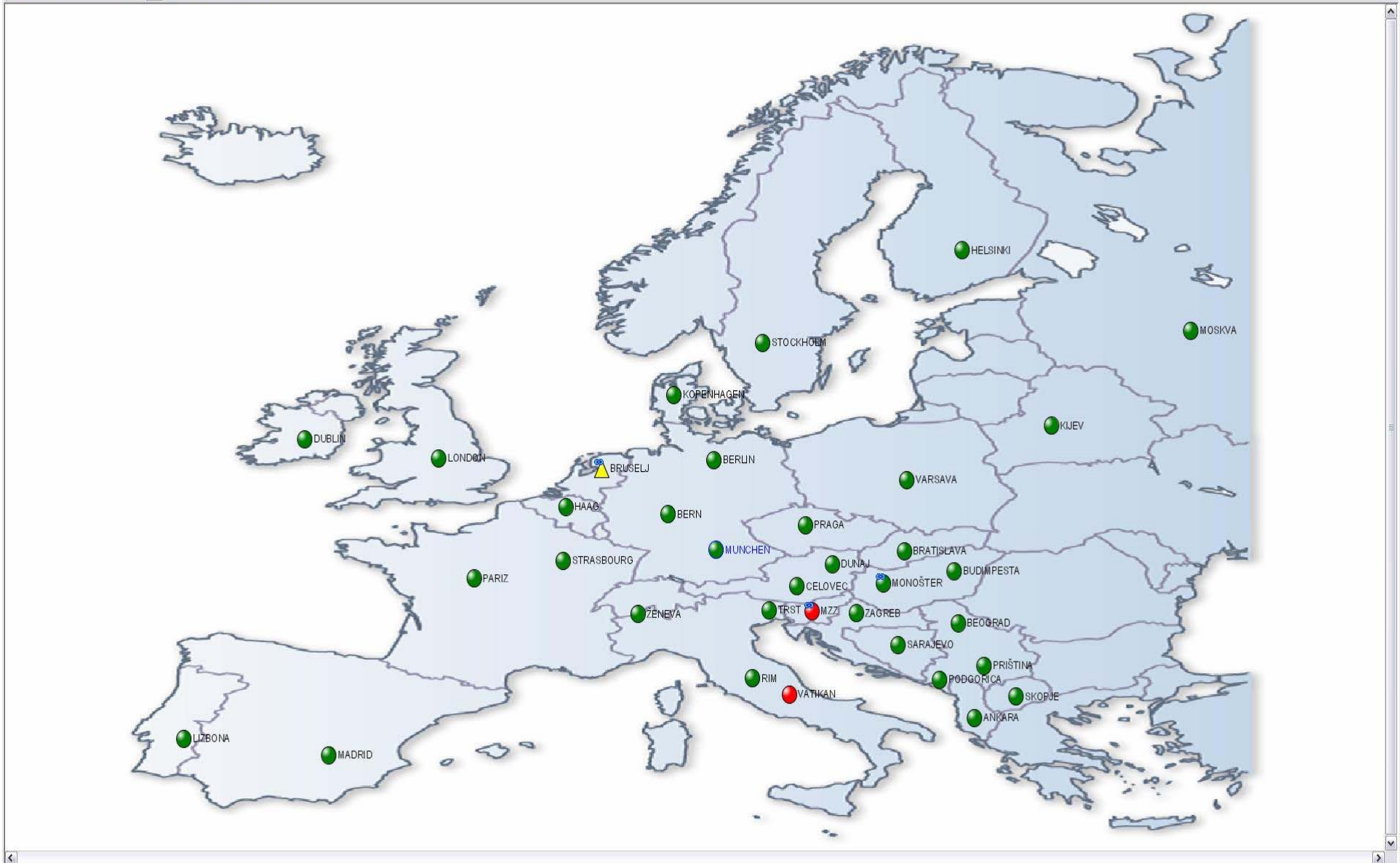
Sampling interval: 0 : 15 : 0

Sound: Enable critical.wav

State: **Critical**

Run at startup

OK Cancel Apply Help



ITM 6.1 je enostaven, ITM Express je še enostavnejši

	ITM Express	ITM 6.1
Enostaven za namestitev namestitev konfiguracija	Manj kot v eni uri namesti privzete komponente Majhen, enostaven, razširljiv	V manj kot dveh urah Fleksibilna namestitev Majhen, enostaven, razširljiv
Enostaven za uporabo IT Footprint Uporabniški vmesnik obveščanje	Prilagojeni in personalizirani upraviteljski vmesniki Out of the box obveščanje v realnem času Out of the box best monitoriji za nadzor (najboljša praksa) En management server Nadzor heterogenih sistemov Avtonomno upravljanje z zmožnostjo samodejnega odpravljanja težav.	Prilagojeni in personalizirani upraviteljski vmesniki Remote management strežniki za večjo skalabilnost Integracija z ostalimi Tivoli produkti Out of the box obveščanje v realnem času Out of the box best monitoriji za nadzor (najboljša praksa) Nadzor heterogenih sistemov Avtonomno upravljanje z zmožnostjo samodejnega odpravljanja težav. Ni omejitve
Rast (skalabilnost)	4 CPUs per server 100 CPUs/servers (max) for OS/400 and i5/OS)	
Kaj pa licenciranje?	ITM v6 nadgradnja Cca. USD 795 Eur po strežniku (agenti so vključeni) 4 processor/server max do 100 strežnikov	Cca. 700 EUR po procesorju Agenti se obračunajo dodatno
Okolja	5 do 50 strežnikov	50+ strežnikov

ITM 6.1 Express vs. MOM 2007

Licence / Produkt	MOM 2007	ITM 6.1 Express
Management Server	1 po strežniku Neodvisno od CPUs € 729 vsak	Se ne zaračuna Vključeno v ceno
Klienti	1 na klienta Neodvisno od CPUs	1 na klienta maksimalno 4 CPUs in 100 klientov
Operacijski sistem	€ 539 vsak	€ 795 vsak
Active Directory	Vključeno v ceno	Vključeno v ceno
Exchange	Vključeno v ceno	Vključeno v ceno
SQL Server	Vključeno v ceno	Vključeno v ceno
.Net	Vključeno v ceno	Vključeno v ceno
Vzdrževanje licenc	Dodatnih 25% na leto	Prvo leto vključeno. 20% kasneje
Interna podatkovna zbirka	€ 1489	DB2 vključen v ceno
Poročanje in izdelava poročil	od € 799 do € 2499	Vključeno v ceno



Zakaj je SIMT vaš pravi partner?

- Znanje, 12 izkušenih strokovnjakov na Tivoli področjih
(30 tehničnih certifikatov)
- Reference, več kot 60 uspešnih zaključenih projektov doma in v tujini
- Širina znanja, varnost, upravljanje IT in storitev,
- Demo in izobraževalni center
- Upravno območje in ISO27001

Vprašanja?

E-mail:

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prodaja@simt.si

