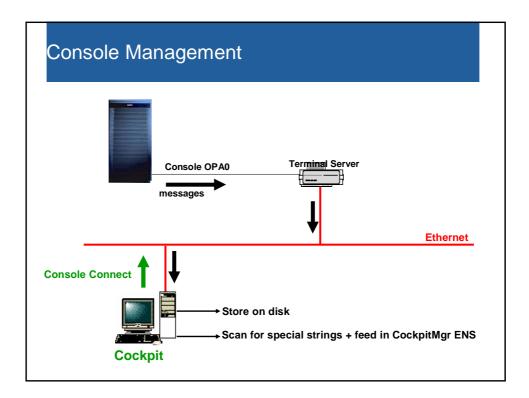
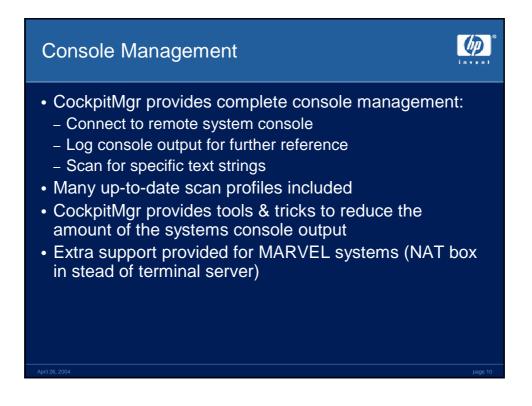
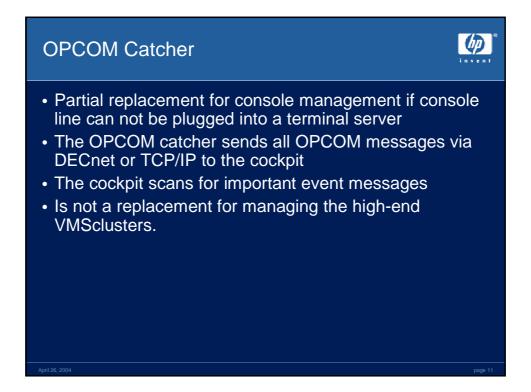
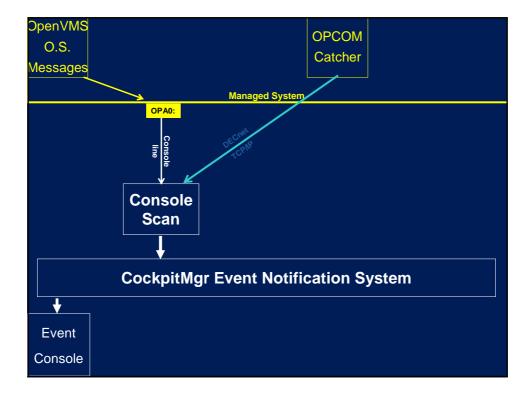


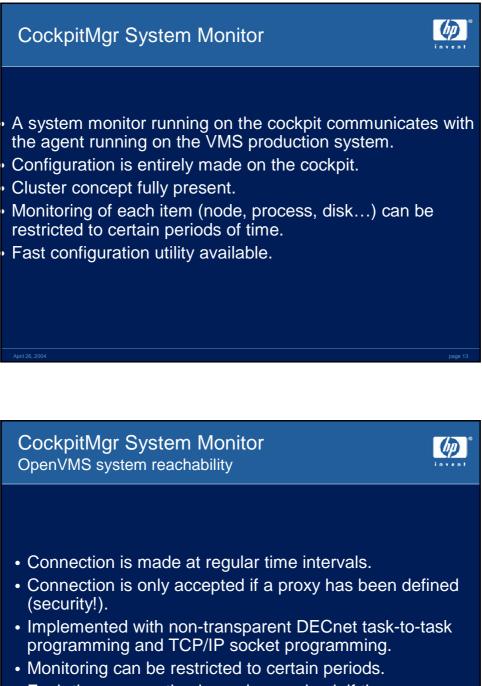
a a a a a a a a a a a a a a a a a a a	Event Console		
ontrol Cu			
System	Date & Time	Text	Solution
TETHYS	11-APR-2001 22:32:18.74	Disk \$1\$DGA203: (DISK\$ORACLE 1) has 7% free blocks (663480 blocks)	
BRSADV	11-APR-2001 23:00:03.46	I Disk \$1\$DGA203: (DISK\$ORACLE_1) has 7% free blocks (663480 blocks) Disk \$2\$DUA5: is not mounted	
) Physical state of port 4 has changed from inSync to noLight	
NEPTUN	12-APR-2001 03:01:11.65	5 BACKUP requests: Saveset PITR3_704.BCK, Volume number 02, write ENABLED	
	12-APR-2001 13:57:30.38) uss 3430/kb. is not induited Hystal state of port 4 has changed from inSync to noLight. BACKUP requests: Savesot PTR3 704.BCK, Volume number 02, write ENABLED **SECURITY BREAKIB, BROOD ://SITOR attempts increasin with user SMITH	
HUB001	IZ-APR-2001 14:13:19.70) A module has been removed.	
HUB001	TZ-APR-2001 1491323.82	A backplane connection change has occurred.	C
LUX BRSADV		7 Disk_\$1\$DUA300 is copy target in shadow set DSA3:) Only 320 global page table entries free	Copy operation t
BRSADV	12_APR_2001 14:19:55 59	Process DB server is missing	Process availabl
BRSVMS			Process deleted
BRUGGE	12-APR-2001 15:59:11.86	%SYSTEM-W-PAGEERAG, page file filling up; please create more space	1100000 ucic icu
BRSAXP	12-APR-2001 16:12:33.73	-SYSTEM-F-NOSLOT, no PCB available	
LUX	12-APR-2001 18:00:04.71	-SYSTEM-F-NOSLOT, no PCB available Disk \$1\$DUA420: is missing as member of shadow set DSA5:	
BRSOPI	12-APR-2001 18:16:09.25	5 %SECURITY_SYSUAF, OPERATOR modified SYSUAF record SMITH - PGFLQUOTA, BYTLM	
BROBAT			Job completed O
CON1		B DECconcentrator CON1: Status of port 2 has changed form inuse to watch	
BRSVMS		SYSTEM-W-POOLEXPF, Pool expansion failure	
BRUGGE	12-APR-2001 22:53:26.81	%LICENSE-W-NOLOAD, license was not loaded for NET-APP-SUP-300	
LU2	TZ-APR-2001 22:59:42.59	WQMAN-E-CREPRCSTOP, failed to create a batch process, queue TCPPOLYSRV_LU2 will be stopped Dick \$140,C4201, (DISK6000REUES) has 0% (ma blacks (2002762 blacks)).	Thusehold not
TETHYS	12-APR-2001 22:59:42.90 1 13-APR-2001 00:02:08.53		Threshold not ex
	TJ-APK-2001-00:02:08.53	- Link abwir (2)	
Open\	/MS System Mor	nitor Operations Security Storage/Backup Applications	
			-
Lood	All Delete Close	ared Delete Shown Show Marked AutoScroll Ouit	
Load	All Delete Clea	ared Delete Shown Show Marked AutoScroll Quit	
Load	All Delete Clea	ared Delete Shown Show Marked AutoScroll Quit	
Load	All Delete Clea	ared Delete Shown Show Marked AutoScroll Quit	
Load	All Delete Clea	ared Delete Shown Show Marked AutoScroll Quit	
Load		ared Delete Shown Show Marked AutoScroll Quit	



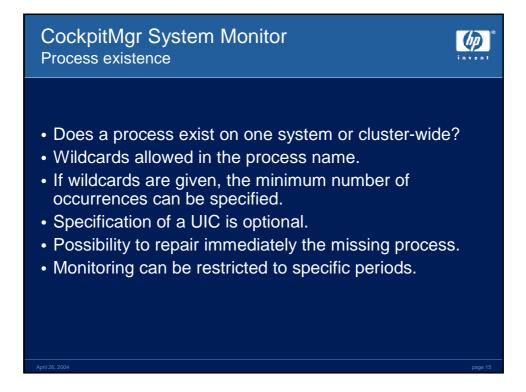








• Each time connection is made, we check if there are any changes in the error count on devices, busses, controllers, CPU and memory.



					inven!
CockpitMgr Event Console					
System Date & Time	Owner	Text			Solution
BRSADV 15-MAY-2000 15:30:05.18	AutoPilot	Process DB is	erver is missing		Process available now
KETJE 15-MAY-2000 15:39:35:44 BRSOPI 15-MAY-2000 15:45:21:30 BRSMV6 15-MAY-2000 16:22:29:46 PLUTON 16-MAY-2000 02:00:03:43		Process DB_si Process ADB* Process POLY Process ORA*	upervisor is missin with UIC [50,1] is m SERV07 is missing with UIC ORACLER	g cluster-wide issing I has only 4 occurences	Monitoring ended
∢					
OpenVMS System Monito	r 0	perations	Security	Storage/Backup	Applications
Process Disk	S	hadow set	Batch Queue	Hardware	Autopilot
Load All Delete Cleared	De	lete Shown	Show Marked	AutoScroll	Quit

CockpitMgr System Monitor Storage



- Disk free space.
 - 4 thresholds can be defined (warning, minor, major, critical)
 - Cleanup/archive procedure can be automatically triggered when threshold is exceeded.
- Disk states (e.g. mount verification, not mounted, writelocked,...etc.)
- Disks to monitor can be defined per system or per cluster.

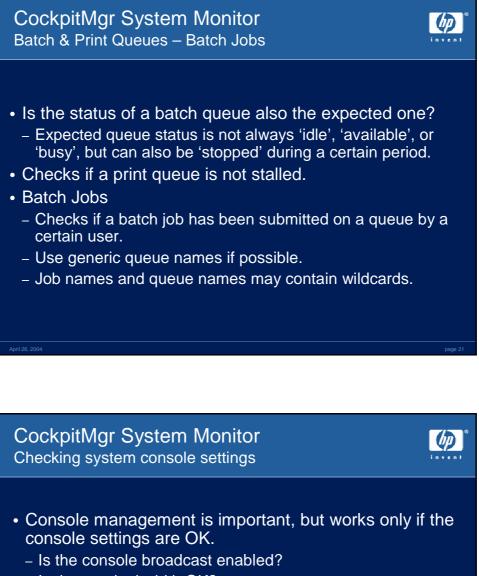
	i aveal
CockpitMgr Event Console	
Control Customize	
System Date&Time Text	Solution
KETJE 15-MAY-2000 14:10:11:85 Disk DSA10: (DISK\$USER_4) has 16 free blocks (27507 blocks) BR\$XAP 15-MAY-2000 15:00:01.79 Disk_\$1\$DUA220 is mount verification in progress BR\$VMS 15-MAY-2000 17:20:11.71 Disk_\$1\$DUA220 is write-locked KETJE 15-MAY-2000 17:20:11.71 Disk_\$1\$DUA22: (DISK\$SYSTEM_1) has 10% free blocks (1232411 blocks	Disk writable a) Threshold not exceeded Disk writable Disk writ
OpenVMS System Monitor Operations Security Storage/Backup	Applications
Process Disk Shadow set Batch Queue Hardware	Autopilot
Load All Delete Cleared Delete Shown Show Marked AutoScroll	Quit

CockpitMgr System Monitor Shadow Sets

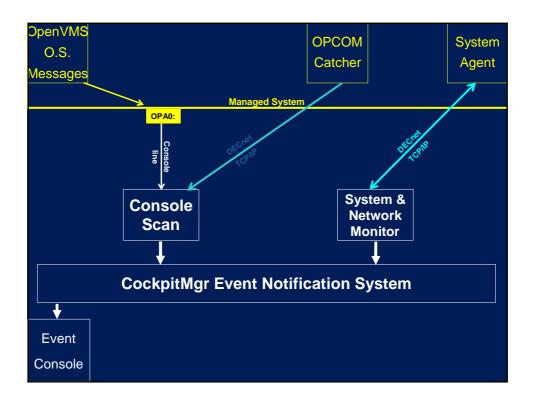


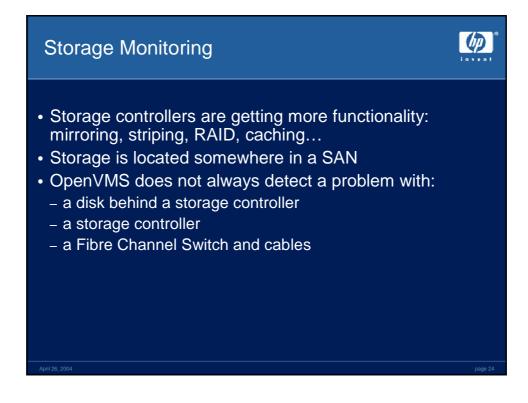
- Is there a disk missing as shadow set member?
- Is a copy operation going on?
- Are the shadow set members merging?
- Is a disk unexpected member of a shadow set?
- State of shadow set members can be visualized in a graphical user interface.
- Mandatory for disaster-tolerant VMSclusters.
- Shadow sets to monitor can be defined per system or per cluster.

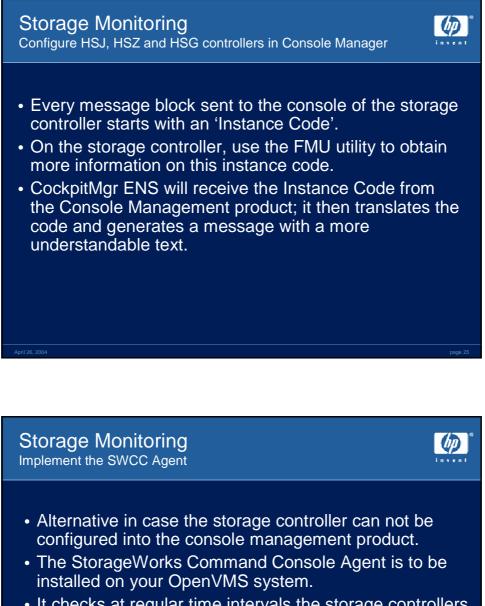
🖋 CockpitMgr Event Consc	le				
Control Customize System Date&Time KETJE 19-MAY-2	Text	\$1\$DIA1005: is miss	ing as member of shad	Solutio	n
KETJE 19-MAY-20 KETJE 19-MAY-20	000 09:12:17.37 Disk 000 09:23:22.38 Disk	_\$1\$DUA3: is unexpe \$1\$DUA12: is missin	cted member of shado Ig as member of shado arget in shadow set _E	wset_DSA0: wset_DSA1: Nowm	ember again
OpenVMS	System Monitor	Operations	Security	Storage/Backup	Applications
Process	Disk	Shadow set	Batch Queue	Hardware	Autopilot
Load All	Delete Cleared	Delete Shown	Show Marked	AutoScroll	Quit



- Is the terminal width OK?
- Is OPCOM enabled on the console?
- Is somebody logged in on the console?

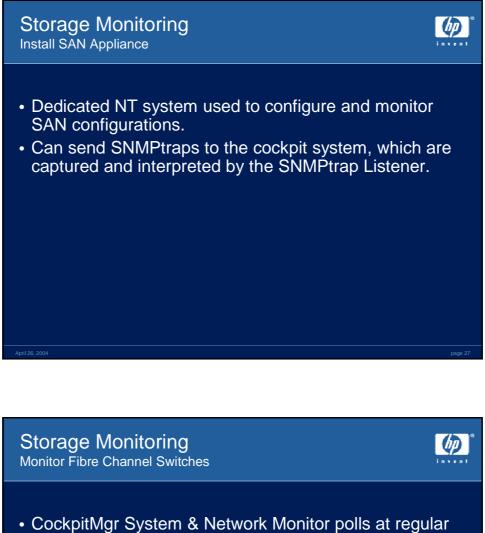




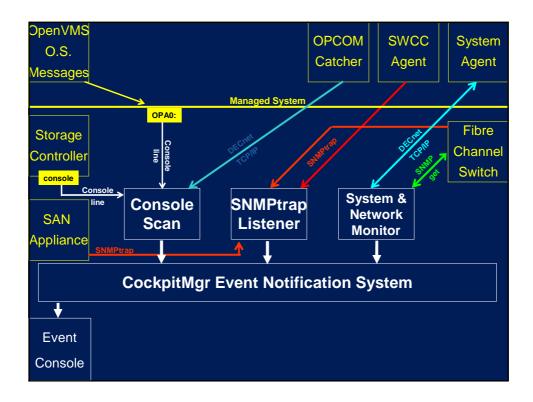


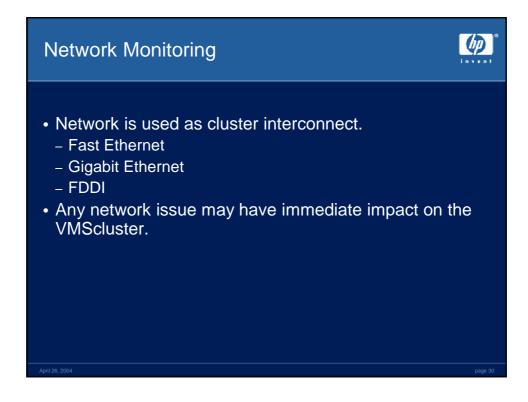
- It checks at regular time intervals the storage controllers and disks.
- Event notification can be made by sending an SNMPtrap to the cockpit system.

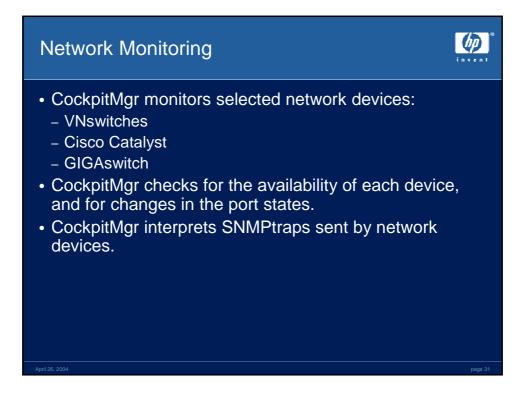
www.decus.de

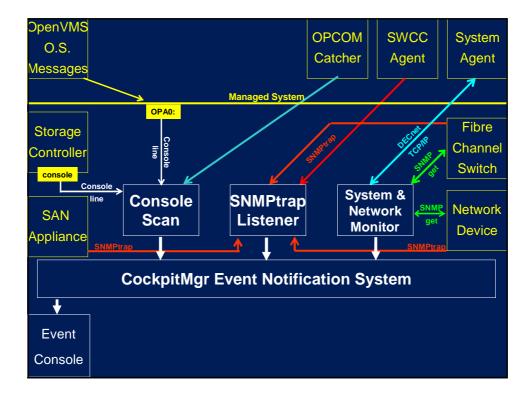


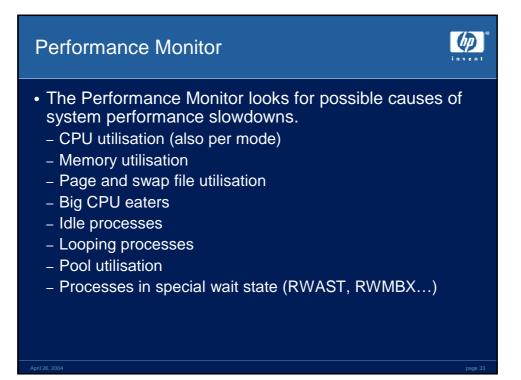
- CockpitMgr System & Network Monitor polls at regular time intervals the availability and operational state of a FC Switch.
- It checks also for changes in port states and sensor states in the FC Switch.
- FC Switch also sends SNMPtraps to the cockpit system, which are captured and interpreted by the SNMPtrap Listener.

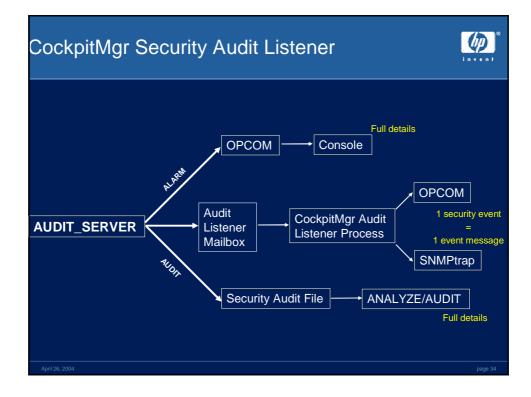










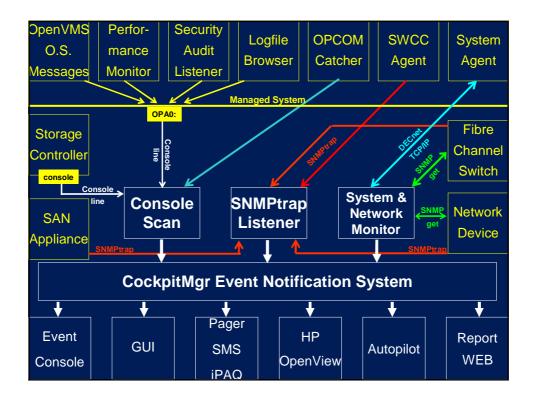


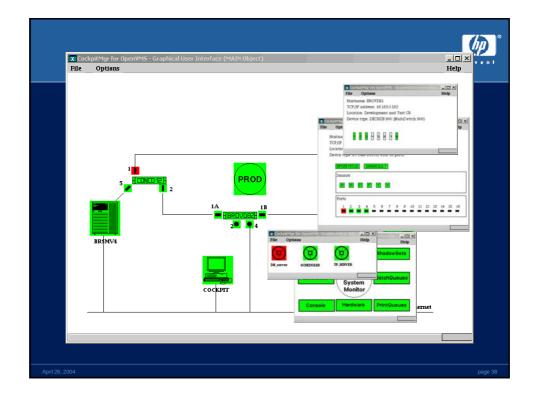
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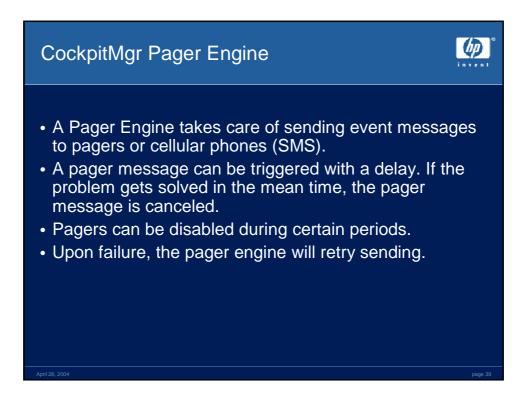
	6	
	inve	n 1
🖇 CockpitMgr Event Console		_ 🗆
Control Customize		
System Date&Time	Text	
BRSADV 11-MAY-1999 10:02: BRSADV 11-MAY-1999 10:02: BRSADV 11-MAY-1999 10:03:	:09.15 %SECURITY_LOGFAI.Login failure by DEC.:BRO.KWAK::MICHIELS: invalid password :14.47 %SECURITY_ACCESS, STEUKERS accesses (R+W) file NETPROXY.DAT : successfully :15.48 %SECURITY_AUDIT, System security alarms changed by user KNOL	
BRSADV 11-MAY-1999 10:09:	:38.47 %SECURITY_SYSUAF, SYSTEM modified SYSAF record user SAEYS: PGFLQUOTA,BYTLM	
BRSAXP 11-MAY-1999 11:14:	:29.65 %SECURITY_SYSGEN, MICHIELS modified active SYSGEN parameters :22.46 %SECURITY_INSTALL, WOERTMAN installed image DSA0:[SYS0.SYSCOMMON.SYSEXE]CPT\$L	OCIN
BRSVMS 11-MAY-1999 11:55:	:01.50 %SECURITY RIGHTS, MICHIELS added identifier TESTENV	OGIN
BRSVMS 11-MAY-1999 11:55:	:12.59 %SECURITY_RIGHTS, MICHIELS granted identifier TESTENV to user STEUKERS :34.45 %SECURITY_NETUAF, SYSTEM added proxy BROFIN::SYSTEM GEORGES(D)	
	:34.46 %SECURITY_LOGON, JSMITH dialed in on _VTA10: (DCS.25001381112)	
4		Þ
OpenVMS System M	Aonitor Operations Security Storage/Backup Applications	
Load All Delete Cl	leared Delete Shown Show Marked AutoScroll Quit	
Load All Delete Cl	leared Delete Shown Show Marked AutoScroll Quit	
Load All Delete Cl	leared Delete Shown Show Marked AutoScroll Quit	



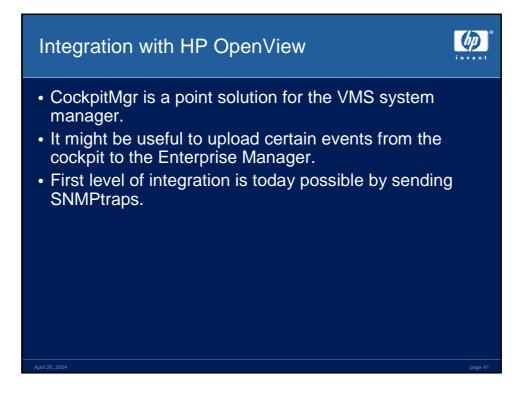
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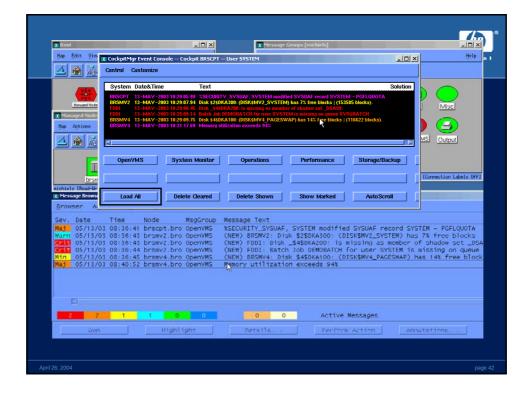




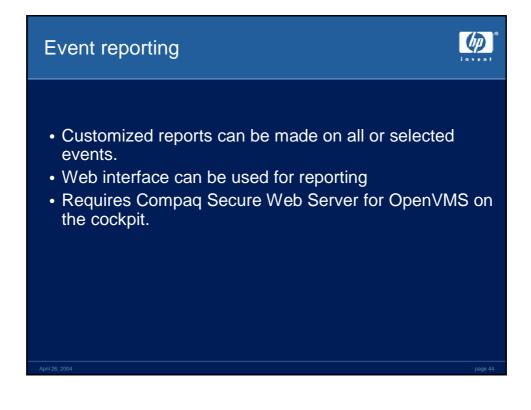


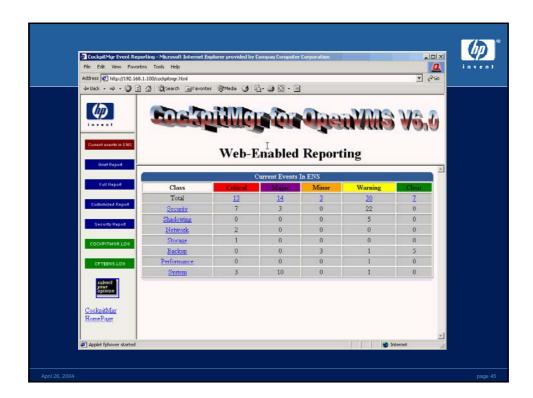
Event Notification on iPAQ Pocket PC
CockpitMgr Main ◄ \$ 10:05 ● ✓ VIEWED (39) UNREAD S. X System SubSys Name ● BRSMV6 DB_server Process ● BRSMV6 TEST2 Process ● BRSCPT X SYST BatchJo ● BRSCPT StatkAc. FreeSpace ● Minor 4-MAY-2003 00:00:00:00:00 BRSCAB NXT BRSCPT Storage > ● Minor 4-MAY-2003 00:00:00:00:00 > ● Minor 4-MAY-2003 00:00:00:00:00 > ● Minor 1-MAY-2003 00:00:00:00:00 > ● Minor 1-MAY-2003 00:00:00:00:00 > ● BRSCPT Free-Space > RQU \$1\$\$DKA0: Storage > D:Set \$1\$DKA0: Storage > D.All ● > >
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