



CockpitMgr for OpenVMS Solution Data Sheet

CockpitMgr is an OpenVMS-based solution designed for managing mission-critical systems and clusters. It centralizes all management operations to monitor your OpenVMS production environment.



The screenshot displays the CockpitMgr for OpenVMS graphical user interface. The top portion shows a network diagram with various nodes and connections. Below the diagram is the 'CockpitMgr Event Console' window, which lists system events with columns for System, Date&Time, Text, and Solution.

System	Date&Time	Text	Solution
CIS00	27-OCT-2024 00:02:08.26	Link down (2)	
X01S03	28-OCT-2024 00:08:18.28	Controller cache of PKA0: has 1 failed battery	
TETHYS	29-OCT-2024 22:32:18.58	Disk \$1SDGA203: (DISKSORACLE_1) has 7.32% free blocks (6634480 blocks)	
BRSADV	29-OCT-2024 23:00:03.06	Disk \$2SDGAS: is not mounted	
FC33	29-OCT-2024 23:44:10.19	The physical state of port 4 has changed from inSync to noLight	
NEPTUN	30-OCT-2024 03:01:04.27	Please mount device: \$2DKB300: (NEPTUN)	
BRSOPI	30-OCT-2024 03:07:29.85	%SECURITY_BREAKIN, BRS001:VISITOR attempts breakin with user SMITH	
LUX	30-OCT-2024 04:16:19.26	Disk \$1SDGA000 is copy target in shadow set DSA3:	Copy operation terminated
L15S51	30-OCT-2024 04:17:10.36	Process WSI\$MANAGER owned by SYSTEM (PID: 45A0045C) has used most of its PGLQUOTA quota (3827362100000)	
BRSADV	30-OCT-2024 04:19:55.01	Process DB_server is missing	Process available
BRSVMS	30-OCT-2024 04:19:58.06	Process UPDATER (PID: 20400129) seems to be looping	Process deleted
PLUS1	30-OCT-2024 05:59:11.46	%SYSTEM-W-PAGEFRAG: page file filling up; please create more space	
BRSAXP	30-OCT-2024 06:12:33.25	-SYSTEM-F-NOSLOT, no PCB available	
LUX	30-OCT-2024 06:14:04.26	Disk \$1SDGA420: is missing as member of shadow set DSA5:	
BRSOPI	30-OCT-2024 06:19:00.83	User OPERATOR modified SYSUAF record SMITH: PGLQUOTA, BYTLM	
BROBAT	30-OCT-2024 06:20:12.05	Scheduler job FIBAS_EOD (PID: 20200103) for user ACCOUNTING1 has started	Job completed OK
PLUS1	30-OCT-2024 06:20:16.10	Sending: 'L15S59: %RDBAGNT-F-BLOCKED, Locks on SSB_DB_PROD: 5839CFD' to DELESPESE using SMSEAGLE ATRIUM with APIZ.	Message accepted by SMSC
BRAXP6	30-OCT-2024 06:48:12.51	%SYSTEM-W-POOLEXP, Pool expansion failure	
PLUS1	30-OCT-2024 06:53:26.33	%LICENSE-W-HOLOAD, license was not loaded for VMSCLUSTER	
LUZ	30-OCT-2024 06:54:42.18	%QMAN-E-CREPRCSTOP, failed to create a batch process, queue TCPOLYSRV_LUZ will be stopped	
TETHYS	30-OCT-2024 06:54:42.23	Disk \$1SDGA201: (DISK\$WORKFILES) has 9.88% free blocks (2002762 blocks)	Threshold not exceeded
HVR	30-OCT-2024 07:00:29.03	Process DCI_TO_CLOUD owned by [120,100] is missing	
L15S20	30-OCT-2024 08:45:32.04	File DSA1:VMS\$COMMON.RDB\$REMOTE73[RDBSERVER_TCPIP.LOG has a high version number (30001)	
L15S20	30-OCT-2024 09:10:33.15	Process SBN_LISA_0018 owned by user SBN_USER (PID: 2E600D48) seems to be looping.	
SAHELIOST103	30-OCT-2024 10:10:22.21	The overall status of port 49 (SAHELIOST2D3_48_ISL) has changed to BAD.	
X01S18	30-OCT-2024 10:15:44.06	Fan18 is running too high (tach = 35 while range is 21 - 30)	
L15S57	30-OCT-2024 12:44:12.16	%LLA0, Logical LAN fallover device unavailable, EIB0 d8-d3-85-f7-10-15	
L95S08	30-OCT-2024 13:01:36.25	State of process CLM_DOLISSPD (PID: 0000FBEB) is RWMBX	
N02S06	30-OCT-2024 15:04:01.45	%PEA0, Port has Closed Virtual Circuit - REMOTE NODE N02S07	
X01S03	30-OCT-2024 16:01:28.37	Throughput on LAN device LLA0 is above 53% (Sent: 529 Mbps - Recv: 6 Mbps)	

A business-critical environment demands 24x7 monitoring of the complete underlying IT-infrastructure. System managers need the tools to deliver the required availability and performance. Although OpenVMS is considered one of the most reliable operating systems, hardware and software problems cannot be entirely avoided.

CockpitMgr is a proven OpenVMS-based solution for managing mission-critical systems and clusters. It monitors the entire OpenVMS production environment and helps system managers to identify potential problems before they cause painful interruption of service. CockpitMgr centralizes all management operations and provides all necessary tools to build a fully integrated management system.

CockpitMgr for OpenVMS assists the system manager 24 hours per day. The product records all events generated by the monitored systems and associated network and storage devices. CockpitMgr takes over routine tasks, notifies the OpenVMS system manager when necessary and can take corrective action without operator intervention. Events are detected, analysed, processed, reported and logged, allowing problems to be detected and corrected before operations are disturbed.

CockpitMgr has been successfully deployed in rail transport, stock exchanges and financial services, retail, automobile industry, police departments, healthcare, military, telecommunication, food industry, energy production and transport, travel industry and managed services.



System Monitor

The System Monitor supervises aspects of production systems, including processes, disk space, shadow sets, and queues. Each type can be configured according to time of day. VMS clusters are fully supported. Configuration per node and cluster can be accomplished within minutes. Monitoring can also be extended with your own specialized modules.

Console Management

The system console is an important source for system and application messages. CockpitMgr allows connection to consoles, logging of console output, and searching for important messages. Scan profiles allow quick configuration of the console manager.

SNMPtrap Listener

The SNMPtrap Listener analyzes SNMPtraps sent by network and storage devices.

Logfile Browser

Checking log files of batch jobs and applications is necessary for smooth production running. The Logfile Browser provides early notification of errors detected.

Hardware Monitoring

Hardware monitoring includes checks of device error counters, power supplies, temperature sensors, and fans in servers, timeouts on FC HBA's, and the status of RAID controllers and their physical devices.

Network Monitoring

Monitoring the availability of network devices and changes to their port states is crucial in multi-site cluster configurations. SNMP-based utilities monitor selected network devices.

Storage

CockpitMgr monitors storage arrays, controllers, and Fibre Channel devices.

Performance Watcher

The Performance Watcher scans for system performance issues, such as looping processes, processes in a special wait state, high CPU and memory usage, and quota utilization.

Security Audit Listener

The CockpitMgr Security Audit Listener monitors the security of information on OpenVMS systems. A comprehensible message is generated for each security event.

Central Event Engine

The Event Engine processes information from various sources and handles event correlation, notification, and reporting.

Event Console

The event console is a customizable application that displays events. Buttons allow selection of events based on event class. Events can be assigned owners or deleted. A web browser can also display events.

Pager Engine

CockpitMgr includes a Pager Engine for notification of important events to cell phones.

Automatic Pilot

Repair actions can be automatically triggered by events without system manager intervention.

Graphical User Interface (GUI)

A GUI provides an overview of systems, clusters, network and storage devices, as well as their interconnections.

Census

Census collects configuration data on systems, storage, and network devices, comparing it with previous snapshots. Configuration data is stored in XML format for web browser reporting.

Minimum System Requirements:

For the cockpit:

- ✓ OpenVMS V8.4-2L1 for Alpha
- ✓ OpenVMS V8.4-2L3 for Integrity
- ✓ OpenVMS V9.2-3 for x86
- ✓ VSI TCP/IP V6.0, SSL V3, OpenSSH

For managed systems:

- ✓ OpenVMS V5.5 for VAX
- ✓ OpenVMS V6.2 for Alpha
- ✓ OpenVMS V8.3 for Integrity
- ✓ OpenVMS V9.2 for x86

CockpitMgr incorporates 40 years of experience in OpenVMS systems management and system programming. It combines the expertise of multiple system managers into a single product.

For further information, contact us to arrange a free initial workshop to explore how CockpitMgr can be implemented in your production environment.