STROMASYS
VIRTUALIZATION TECHNOLOGIES

Software Product Description

CockpitMgr for OpenVMS

Version 7.2

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Use CockpitMgr to improve the reliability and effectiveness of your OpenVMS system environment by detecting potential problems and solve them before they develop into real ones.

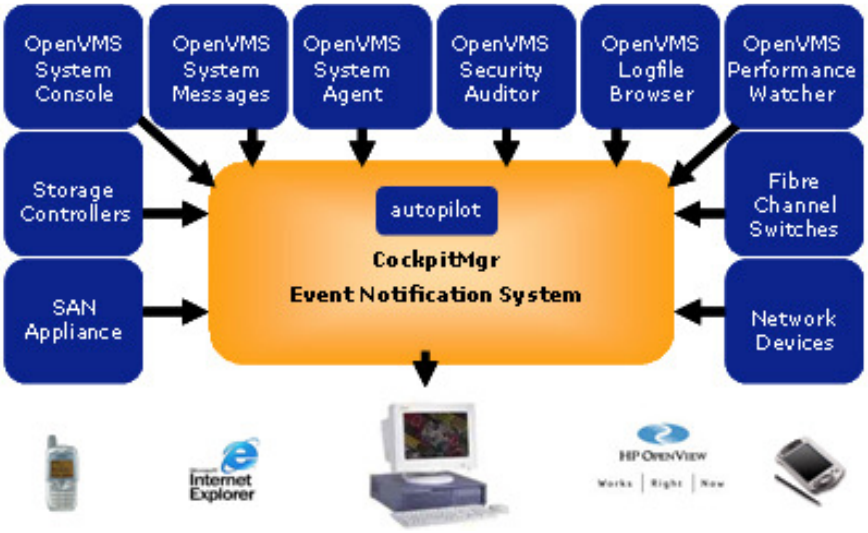
CockpitMgr for OpenVMS is available in 3 versions:

MiniCenter to manage up to 10 systems for smaller, but still business critical datacenters;

DataCenter managing up to 25 attached systems and offering paging and a graphical user interface for 'blink-of-an-eye' insight in the status of your OpenVMS environment;

MaxiCenter with management support for an unlimited amount of systems, installation of a hot-standby CockpitMgr system for multi-site clusters.

System requirements: HP Integrity rx1600 or HP Alpha DS15 with 1 GB of memory, 2 disks and running OpenVMS v7.3-2 or v8.3.



Running business critical operations means that you have to monitor the status of the underlying IT-infrastructure. Running OpenVMS helps you to support 24x7 operations, but still problems can occur, in hardware, software or applications. It is important to identify events and solve them before they become a problem that affects your daily operation.

CockpitMgr for OpenVMS is this tool. Through detection and automated processes it helps you to prevent these events developing into real problems which cause operational problems and with those direct or indirect costs.

The main responsibility of OpenVMS system management is to make sure that the OpenVMS environment always delivers the performance and availability that levels the business demand. It keeps track of all events that occur in the OpenVMS system environment and all integrated network and storage elements. Events are detected, analyzed, automatically processed, reported and finally logged. CockpitMgr for OpenVMS indicates where problems occur or are about to occur. The availability and performance of your OpenVMS environment will increase significantly by using this toolkit.

CockpitMgr for OpenVMS actively monitors all intelligent nodes in the OpenVMS network, either by directly receiving console or operator messages, either by CockpitMgr agents that perform monitoring tasks on designated equipment and issue regular status reports to the central CockpitMgr. Every system, network or storage node that can provide system management information can report it to the event notification system that is parameterized to initiate appropriate actions to handle events.

The OpenVMS system manager will be notified of events, also when the autopilot corrects them without operator intervention.

CockpitMgr for OpenVMS allows you to do more with less staff; at the same time providing better service to the users of the systems. The product has a number of unique and valuable features to improve the availability of your computer systems.

CockpitMgr runs on OpenVMS and provides a solution for the entire OpenVMS production environment.

Event Notification System

The Event Notification System (ENS) is the heart of the cockpit system. All event messages, from different sources, are fed into the ENS. This handles event pre-processing, event correlation, message text translation and event notification in a various number of ways.

Event Console

The event console is a customizable Motif application that connects to the ENS. It is the central place for a system manager to look for new events. Programmable buttons make it possible to select quickly specific classes of events. The event console also allows to take ownership of events, and to delete events.

System Monitor

Monitors many items on OpenVMS production systems, including processes, free disk space, shadow sets, batch jobs and queues. Monitoring of each item can be restricted to specific time periods. The cluster concept is fully present and configuration per node and cluster is made within minutes.

Automatic Event Response

Repair actions can be automatically triggered on events, without intervention of a system manager. This automatic pilot is the keystone to make “lights-out” computing a reality.

Console Management

The system console is an important resource of system and application messages. CockpitMgr allows you to connect remotely to the console of any system or storage controller, log console messages for further reference and to scan console messages for important messages. Fast configuration is achieved due to the availability of many useful and up-to-date scan profiles.

Storage Monitoring

CockpitMgr does all the necessary monitoring on storage controllers, devices and Fibre Channel switches.

Network monitoring

The network is used today more and more as cluster-interconnect. Especially in multi-site disaster-tolerant cluster configurations it is mandatory to monitor the availability of network devices and changes in their port states. SNMP-based utilities monitor selected network devices, such as VNswitches, GIGAswitches and CISCO Catalyst switches.

Security Audit Listener

The CockpitMgr Security Audit Listener monitors the security of the information entrusted to your VMS systems. Every security event generates a comprehensive message within the ENS.

SNMPtrap Listener

The SNMPtrap Listener handles all SNMPtraps received by the cockpit system and interprets the information.

Performance Watcher

The CockpitMgr Performance Watcher continuously looks for possible causes of system performance degradation. This includes the search for looping processes, processes in a special wait state, processes using lots of CPU, pool utilization, etc.

Reporting

A reporting utility generates detailed and customized reports. Reporting using a web interface is possible if the Secure Web Server for OpenVMS (based on Apache) has been installed on the cockpit.

Logfile Browser

Keeping the production running smoothly also means continuous checking for errors within the log files of batch jobs. The CockpitMgr Logfile Browser looks for error messages in the logfiles and guarantees early notification of problems during a job stream.

HP OpenView integration

Events detected by the cockpit can easily be uploaded to your enterprise management framework. The cockpit can send event messages to applications such as HP OpenView.

Configuration and change management

Detailed configuration snapshots of VMS systems, FibreChannel switches and network devices are taken. Information from different sources is correlated and can be displayed in your web browser. Configuration changes are reported.

Job scheduler

CockpitMgr includes a job scheduler which lets you automate and manage repetitious computer jobs. The scheduler makes it possible to separate scheduling specifics such as schedule interval and job dependencies from the job’s main task.

Graphical Monitoring Interface (DataCenter)

This graphical interface allows you to monitor your complex OpenVMS system environment at the blink of an eye. It shows where problems occur, allowing system management to resolve them before they escalate.

Pager Engine (DataCenter)

CockpitMgr includes an intelligent Pager Engine to notify system management of important events by sending a message to a cellular phone allowing you to keep track of events, wherever you are.

Cockpit Failover (MaxiCenter)

MaxiCenter supports the presence of a stand-by cockpit that will take over management when the primary cockpit becomes unavailable (e.g. power-failure or network disconnect). The secondary cockpit manages the remainder of installed base until the primary system becomes available again.