CA Performance Management for OpenVMS

Release Summary

r3.1

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Chapter 1: Features

CA Performance Management for OpenVMS products are OpenVMS layered products designed to reduce the time and effort required to manage and monitor OpenVMS system performance and to plan for future resource requirements. You can use these products as standalone and with OpenVMS cluster systems.

CA Performance Management for OpenVMS includes the Performance Manager and the Performance Agent, which share a common database and a basic set of utilities. The Performance Agent provides these utilities for the Performance Manager components of the same version. CA Performance Management for OpenVMS also includes Accounting Chargeback on Alpha.

The Performance Manager makes recommendations for improving system performance. It does this by analyzing system data through the application of expert system technology, identifying specific conditions causing performance degradation, and presenting detailed evidence to support its conclusions. It provides real-time displays of performance data using either DECwindows Motif or character cell displays. The user can interactively view and investigate system performance problems and resource usage.

The Performance Agent supports the Performance Manager by gathering, managing, classifying, and archiving OpenVMS system data. It uses this information to provide data collection, storage, archiving, and reporting.

Accounting Chargeback uses OpenVMS accounting data to produce system use reports. These reports show the charges for various system resources based on unit prices that you provide. You can use Accounting Chargeback report as an itemized bill or as a general resource use report.

Note: The Performance Agent was formerly known as the Data Collector, and the Performance Manager was formerly known as the Advisor.

This section contains the following topics:

r3.1 Features (see page 8)
r3 Features (see page 8)

r3.1 Features

The following features are new for all versions of CA Performance Management for OpenVMS r3.1:

- IPv6 Support
- Additional Data in Cubes
- Extended Graphic Support for MS Excel™

IPv6 Support

We've added IPv6 protocol support for components that use TCP/IP to communicate, which includes the Performance Manager Real-time Display. In CA NSM for OpenVMS Integration, IPv6 support is provided for system monitoring using CA NSM Manager, and cube transfer to CA NSM Performance Trend.

Additional Data in Cubes

We added overall CPU Utilization and overall Memory Utilization to Performance cubes. You can view this data by using CA Unicenter NSM Performance Trend.

Extended Graphic Support for MS Excel

To create a graph that displays more than six CPUs for a node, a method is now documented to extract the data and format it for easy viewing in MS Excel.

r3 Features

CA Performance Management for OpenVMS r3 features now support Alpha 7.3-2 and higher. Users of CA Performance Management for OpenVMS r3 should be familiar with these features, but they are new for CA Performance Management for OpenVMS Alpha users:

- Ported CA Performance Manager for OpenVMS to HP OpenVMS (Itanium)
- Ported the integration software to the CA® Network and System Management (NSM)

- Added XFC support
- Added XFC data to reports and graphs
- Created new performance tuning rules and deleted or modified old rules
- Expanded support to include up to 4000 disks
- Expanded support to include ODS-5 disks
- Graduated data cell sizes
- Restructured dump reports to prevent overflows
- Created a new Software Development Kit (SDK) guide and reorganized the documentation set

Integration Software Ported to CA NSM

The integration with CA NSM Systems Performance Option, the Cube API, is ported to CA Performance Management for OpenVMS for this release to resolve support issues with displaying cubes on localized Performance Managers. The latest Cube API software from CA NSM Systems Performance Option is ported to OpenVMS.

XFC Support

Extended File Cache (XFC) is available for OpenVMS beginning with version 7.3. XFC data is available in the following locations:

- **XFC data to the CPD database**-New data cells are available in the CPD database to support XFC.
- **XFC Support in the Data Collector**-New data is gathered by the Data Collector to support XFC.
- **XFC Support in the Performance Manager**-XFC data is included in the Knowledge Base and Rules Compiler.

XFC Data in Reports and Graphs

XFC data is also available for the following reports and graphs:

- **Analysis Report**-Added new conclusions and recommendations about potential performance problems related to the Extended File Cache uncovered by the Knowledge Base.
- **Brief Analysis Report**-Added new conclusions/recommendations about potential performance problems related to the Extended File Cache uncovered by the Knowledge Base.

- **Tabular Report**-Added a section that displays XFC cache misses.
- **Graphs and Pie Charts**-Added a new graph and a new pie chart in the available formats:
  - Postscript pattern graph
  - Postscript formatted line graph
  - ANSI formatted graph
  - Motif graph
  - Motif pie chart
- **Custom Graphs**-Added new metrics that allow you to insert the XFC data.
- **Dump Reports**-Added XFC data to the Agent Dump Reports.

Updated Performance Tuning Rules

The entire Factory rule set was reviewed by an industry-leading consultant and augmented to reflect the latest versions of OpenVMS, resulting in new keywords added to the rules compiler. These changes are reflected in the new rules provided for XFC. To support rule changes, additional SYSGEN parameters were collected.

Support 4000 disks

Due to the ever-increasing size of disk farms, we increased our hard-coded limit. The count is increased by a factor of two to 4000 in both the Performance Agent and the Performance Manager.

ODS-5 Disk Analysis

We added support for the analysis of ODS-5 disk format formatted disks. The Disk Space Analysis utility, ADVISE COLLECT REPORT DISK_SPACE, now supports disk volumes with FILES-11 ODS-2 and ODS-5 formats.

Data Cell Size Graduation

With the continued system growth and speed increases, data cells in the Performance database were at risk for overflow, so we increased the data cell sizes as needed.

Dump Report Overflows

With the continued system growth and speed increases, dump reports were also at risk for overflow. To correct this, we increased the dump report field width as needed.

Documentation Enhancements

We completed the following work on the documentation set for this release:

- Created a new Software Development Kit (SDK) Guide to assist you with building custom application programming interfaces (APIs). It is intended for application support personnel and application developers who maintain and administer their company's OpenVMS systems.
- Upgraded the existing documentation and reorganized for ease of use and quicker referencing of information.
- Provided all guides in both PDF and HTML format on your installation CD-ROM.