

# VSI OpenVMS Performance Service

VSI Technical Services



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## Introduction

The VSI OpenVMS Performance Service enables OpenVMS customers to do performance analysis on their own and provides a powerful framework for capacity planning issues. Based on the ability to create long time trend reports automatically, it is possible to detect changes in system behavior in short time with low effort – changes that are due to release upgrades of the application, upgrades of OpenVMS or just changes in end-user behavior. In most cases potential performance bottlenecks can be identified, before they can impact operation. Hence the customer can take appropriate actions in a timely fashion.

Please see the section *Performance Service Description* for a detailed service description.

For the life of this service agreement the service tool PERFDAT is provided by VSI. The tool set and its components are described in detail in the section *Tools and Methods*.

## Performance Service Description

### Implementation and initial configuration of the service tool

This includes the installation of the service tool PERFDAT (see section *Tools and Methods*) on the OpenVMS systems at the customer site, customizing the service tool and the default collection profiles according to the requirements of the customer environment. Before installing the service tool, the customer and VSI will agree upon whether the installation shall be done by VSI remotely or by the customer on his own. If the installation is done by VSI, the customer must provide remote access to systems. If the installation and initial configuration of the service tool PERFDAT is done by the customer, VSI will provide online phone support in order to guarantee quick and smooth implementation.

### PERFDAT Software maintenance

Software maintenance includes ongoing maintenance (such as bug fixes) of the actual PERFDAT version in use during the runtime of the service agreement. The service tool will be available for future OpenVMS releases within 6 weeks after official shipment date of a new OpenVMS release.

## PERFDAT Upgrade Service

During the contract period of the service agreement customers may use the most recent version of PERFDAT. VSI will inform the customer about availability of new PERFDAT releases. The installation at the customer site will be done by VSI remotely upon customer request, if the customer provides remote access. If the installation is performed by the customer, VSI will provide online phone support in order to guarantee quick and smooth upgrades.

### Tools and Methods

The performance service described above is based on the service tool PERFDAT, which will be installed at the customer site. This tool includes the following components:

- OpenVMS Data Collector
- EVA Extension
- SNMP Extension
- Online performance alerting subsystem
- Performance data GUI
- Online data mapping and offline data importing
- Query Interface
- Auto trend engine

The **OpenVMS Data Collector** provided with the PERFDAT tool set is the most comprehensive data collector for OpenVMS on the market today. It provides statistics in the area of system, CPU, volume, file, devices, processes and SCS. The data collector is supported on OpenVMS Alpha V7.2-2 and above, and on OpenVMS I64 V8.2 and above. OpenVMS VAX is not supported. The data collector is controlled by predefined profiles. Due to various numbers of filter options, the customer is able to create specific profiles matching different and/or special requirements. In order to keep the creation of such profiles simple, a DCL-based wizard is available.

The **EVA Extension** provides the ability to monitor the performance from HP Storage Enterprise Virtual Arrays (EVA). The performance data collection does not depend on the availability of a SAN appliance or any other external source.

The **SNMP Extension** provides the ability to monitor the performance of non-OpenVMS systems. Collecting performance data via SNMP requires knowledge of the remote system's MIB table. In order to monitor a specific type of remote system, system specific configuration tables based on its MIB table have to be created and loaded into the PERFDAT configuration database. Such configuration tables are available for Linux, Tru64 and Brocade switches out of the box. Configuration tables for any other system can be created on customer request but is not included in this service

The **Online Performance Alerting Subsystem** tracks specific performance data collected by the OpenVMS data collector, the EVA extension and the SNMP extension and triggers alerts if any alert condition becomes true. The performance data being monitored, the alert conditions and the alert method (OPCOM messages, user definable command scripts) are defined by alert blocks within an alert definition file. An alert definition file is a text file for easy customization. Predefined alert definition files are available for OpenVMS, EVA, Tru64 and Brocade switches. Customizing these alert definition files is not included in this service.

The **Performance data GUI** is a Windows XP/7/8.1/10-based tool for displaying 2D graphs and for visualizing the results of several freely definable statistics (deviation and/or correlation report). It accesses the performance database via the Data Query Interface. The main features are Zoom-In/Out, reference data processing, data correlation, data scanning and multi-scaling. For easy and structured access, a metrics and statistics explorer is available.

The **online data mapping and offline data importing** functionality provides a method to map or import any kind of timeline (CSV) data created by any 3rd party tool. Using the import

functionality for the offline import of external data, any data can be imported into the database providing the user has a well-defined number of attributes per time.

The **Query Interface** is the interface to access the performance database. Due to the implemented abstraction layers (data abstraction layer, network abstraction layer) and the predefined semantics it is guaranteed that the end-user does not have to know anything about the organization of the performance database to access the performance data. Moreover the end-user does not have to know where the data files of the performance database reside – the access is transparent. Full up- and downward data compatibility is available, meaning that data will be always readable no matter which OpenVMS and PERFDAT Version has been in use when collecting the data.

The **Auto Trend Engine** creates long time trend reports automatically. The predefined trend report periods are day, week, month, quarter and year. The auto trend engine enables the system manager to detect any change in system behaviour - changes that are due to release upgrades of the application, upgrades of OpenVMS or changes in user behaviour, etc. – with low effort. The auto trend engine is controlled via so called trend report profiles. For easy creation of such profiles a DCL based wizard is provided.

### **More information**

For more information please contact VMS Software Sales at [sales@vmssoftware.com](mailto:sales@vmssoftware.com).