

# Datasheet

## Fujitsu Software BS2000

### openSM2 (BS2000) Version 21.0

openSM2 – the System Performance Monitor

## Topics

### Product characteristic

Product line **FUJITSU Software BS2000 openSM2**

Round-the-clock performance monitoring forms the basis for effective and economic operation of IT systems. With the openSM2 product line, Fujitsu offers a consistent solution for the enterprise-wide performance management of heterogeneous IT environments. openSM2 provides comprehensive online monitoring with configurable alarm management, detailed bottleneck analyses as well as forecasts of future performance requirements and so gives the customer the capability to optimize the performance of his systems. openSM2 offers a web-based user interface: the openSM2 Manager. The openSM2 Manager is available in the SE Manager. It is running on the Management Unit and allows the central monitoring of the system.

The product line Fujitsu Software openSM2 consists of these products:

- **openSM2 (BS2000)**
- **openSM2 (Open Systems)**
- **SM2-PA**

**openSM2 (Open Systems)** is an all-inclusive-package for monitoring - in conjunction with openSM2 (BS2000) – all server units and application units on the SE server, the systems running outside the server, the storage systems and SNMP capable devices in and connected to the SE server.

**SM2-PA** supplies statistics about resource consumption of the task and the performance behavior of the user program as a starting point for tuning measures.



### openSM2 (BS2000)

openSM2 (BS2000) provides the user with statistical data about the performance of the BS2000 and about resource utilization. All the relevant utilization data of CPUs, memory, channels and disks is collected as standard. The extent of the data collection can be adapted to suit requirements - up to and including seamless recording of system events for detailed bottleneck analyses - by using additional monitoring programs.

In addition to system monitoring openSM2 (BS2000) enables task and program-specific measurement data to be collected by user programs and analyzed using the product SM2-PA.

# Features and Benefits

Main features	Benefits
<b>FUJITSU Software BS2000 openSM2</b>	
<ul style="list-style-type: none"> <li>■ Simple installation and configuration</li> <li>■ Comfortable graphical user interfaces</li> <li>■ Central performance monitoring of heterogeneous IT infrastructures</li> <li>■ Uniform tool for various system types</li> </ul>	<ul style="list-style-type: none"> <li>■ Ready to run</li> <li>■ Intuitive to use</li> <li>■ Efficient and transparent performance management</li> <li>■ Unified and graphically supported processing of all measurement data</li> </ul>
<b>Online monitoring</b>	
<ul style="list-style-type: none"> <li>■ Simultaneous monitoring of several systems with a different system type</li> <li>■ Graphical and tabular presentation of the measurement data</li> <li>■ Rule-based verification of the measurement data</li> <li>■ Configurable alarms</li> <li>■ Automatically triggered actions</li> </ul>	<ul style="list-style-type: none"> <li>■ Swift estimation of the overall situation</li> <li>■ Precise assessment of system behavior</li> <li>■ Automated monitoring</li> <li>■ Early problem recognition</li> <li>■ Rapid reaction to problems</li> </ul>
<b>Offline analysis</b>	
<ul style="list-style-type: none"> <li>■ Central analysis of systems with a different system type</li> <li>■ Accurate analysis due to flexible selection of the analysis period and measurement variables</li> <li>■ Automatic generation of a list of processes with the highest CPU consumption</li> <li>■ Automatic generation of hit lists of the monitored objects with the highest utilization values</li> <li>■ Time-controlled analysis using macro technology</li> </ul>	<ul style="list-style-type: none"> <li>■ Unified layout of charts and reports</li> <li>■ Implementation of trend and bottleneck analyses</li> <li>■ Fast identification of the mains causes of peak loads</li> <li>■ Simple identification of overloaded resources</li> <li>■ Automation of analyses to be performed on a regular basis</li> </ul>

## SM2 monitor

The SM2 monitor consists of a privileged BS2000 subsystem that gathers the performance data and makes it available at a program interface and, if

requested, saves it in a monitoring file, as well as a user program to manage the collection and screen presentation of the performance data.

## Measurement data

The SM2 collects all relevant system performance data as standard, including the categories of CPU, I/Os, main memory, pubset and datamanagement.

The measurement data is saved in two databases. One database contains the current measurement data for online monitoring and the second (optional) database contains archived measurement data for offline analysis.

Several different types of reports are available for presenting the performance data in graphical or tabular form. Snapshot reports indicate the current system status in a chart or a table.

The user can specify the measurement variables and the monitored objects whose performance data is to be included in a report, as well as define new measurement variables by linking measurement variables by means of formulas.

The archive scope is configurable. Furthermore, the archived measurement data can be compressed by putting several monitoring intervals together.

With the extended export and import function, an openSM2 configuration, i.e., settings and optionally also monitored data, can be transferred from one Management Unit to another.

## openSM2 Manager

To monitor SE servers openSM2 has a web application, which is installed as an add-on to the SE Manager and is accessed to the SE Manager. This is referred to as openSM2 Manager.

The systems in the SE server are automatically determined and included in the monitoring. Systems outside the SE Server can also be monitored if it is

correctly configured and lizenzed.

User management with a role concept is connected to the role in the SE Manager. .

An outline of the most important utilization values of all monitored systems with filter and sorting functions provides a swift overview of the overall utilization of the SE server.

The system group concept has been extended to include inhomogeneous and dynamic system groups. Inhomogeneous system groups contain systems of various types, thus enabling e.g., a system group with all its guest systems (VMs) to be mapped on a virtualized server. Dynamic system groups allow systems to be selected and grouped according to specific criteria. The members of these system groups are not permanently defined but determined dynamically by means of filter functions so that any newly added systems can also be automatically allocated to a system group.

## Innovations with SP 23.2

Management of active rules for all users who trigger an action (e. g. procedure, e-mail, event, etc.) and thus possibly disrupt ongoing operations.

## Innovations with SP 24.1

openSM2 V21.0B – SM2-Web V21.0.6:

- Inclusion of CLUSTER-UNITs in OpenSM2
- Entry of configuration changes also in AUDITLOG in addition to OpenSM2 log files
- Non-automatic deletion of non-existent users after SM2 export/import to new MU: New dialogue for manual deletion of users that no longer exist
- SE V6.6 support

# Technical Details

Requirements	
<b>Technical Requirements Hardware</b>	Fujitsu Server BS2000 See release notes
<b>Technical Requirements Software</b>	Fujitsu Software BS2000 openSM2 V21.0 is released for FUJITSU Software BS2000 OS DX V1.0 SE Manager, M2000 for released versions., depending on the versions available for SE Manager Current Internet browser For more information see release notes
<b>User Requirements</b>	To analyze and interpret the performance data, users should have an in-depth knowledge of the system.
Installation	
<b>User Interface</b>	German and English, others on request
<b>Installation</b>	By the customer (see Release Notice)
Documentation and Training	
<b>Documentation</b>	openSM2 User Guide <a href="https://www.fujitsu.com/emeia/bs2000/documentation">BS2000 Documentation (fujitsu.com)</a> Help functions of the user interfaces
<b>Training</b>	See course offer <a href="#">course offer</a>
Purchase and Delivery	
<b>Conditions</b>	This software product is supplied to the customer under the conditions for the use of software products against a single payment or installments.
<b>Order and Delivery</b>	The software product may be obtained from your local Fujitsu Technology Solutions GmbH regional office.

### Fujitsu Platform Solutions

In addition to Fujitsu Software BS2000, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio Built on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions, and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offerings. This allows customers to select from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

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### Fujitsu Green Policy Innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at <https://www.fujitsu.com/global/about/environment>



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### More Information

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[www.fujitsu.com/emeia/bs2000](http://www.fujitsu.com/emeia/bs2000)

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