

Datasheet

FUJITSU Software BS2000 SNMP-AGENTS V1.0

SNMP agents for system and application monitoring in BS2000

SNMP management in BS2000

Based on the SNMP protocol, integrated network, system and application management is now possible. Heterogeneous IT components from different manufacturers can be integrated into a uniform management system.

In combination with the NET-SNMP component of the BS2000 operating system, the product SNMP-AGENTS serves to connect BS2000 systems to a central management system via the SNMP standard management protocol.

With SNMP-AGENTS, Fujitsu provides its customers with a series of agents for system and application monitoring in BS2000. Agents are also available for monitoring and managing various applications, the console interface, BS2000 subsystems, spool and storage systems and log files, as well as for the HSMS, openFT, open SM2 and openUTM products.



Topics

Product Characteristics

The release unit NET-SNMP of the BS2000 operating system and the product SNMP-AGENTS offer the basic functionality for BS2000 systems to be integrated into SNMP-based management environments. NET-SNMP and SNMP-AGENTS allow network, system and application management via SNMP from a central management station.

SNMP management architecture

With the product SNMP-AGENTS, Fujitsu provides a series of agents for system and application monitoring in BS2000. Agents are also available for monitoring and managing various applications, the console interface, BS2000 subsystems, spool and storage systems and log files, as well as for the HSMS, openFT, open SM2 and openUTM products.

The basic functionalities for SNMP in BS2000 are generally available with the operating system component NET-SNMP. In addition to the SNMP daemon snmpd, the SNMP trap daemon and SNMP client tools, NET-SNMP also includes the Event Agent and the Scheduler Agent. In addition, SNMP agents are provided in individual products, which complement the BS2000 agents implemented in SNMP-AGENTS:

- BCAM agent in openNet Server
- FTP agent in internet Services
- SESAM agent in SESAM/SQL

Description of SNMP agents

Application Monitor Agent

The Application Monitor Agent enables the monitoring of user applications, BCAM applications, DCAM applications, BS2000 subsystems and log files. Information written to a log file can be sent as a message (SNMP trap) to a management station. The agent also can generate SNMP traps for state changes of subsystems in BS2000. Additionally, the Application Monitor can evaluate job variables and thereupon generate SNMP traps as a message.

Logically related components of a process (applications, log files, subsystems and job variables) can be monitored together as a group.

Console Monitor Agent

The Console Monitor Agent monitors the console interface. The agent is used to record console messages and to enter console commands. It will rarely make sense to pass on all console messages to the management station. Therefore, the Console Monitor Agent offers options for filtering console messages to limit the flood of messages.

SNMP agent for HSMS

The HSMS agent allows you to read and modify global HSMS data. It also provides detailed information on HSMS orders and their statuses. The scope of the display can be limited by the selection criteria "condition" and "place of origin".

SNMP agent for Host Resources

The Host Resources agent provides information about the system, devices, file systems, installed software and status changes.

SNMP agent for openFT (BS2000)

The openFT agent is used

- for starting and stopping openFT (BS2000)
- for obtaining information about system parameters of openFT (BS2000)
- to change the public key for encryption
- to output statistical data and partner information
- for controlling the diagnostics

The proprietary MIB for openFT (BS2000) provides objects for the management tasks mentioned above.

SNMP agent for openSM2

The performance agent for openSM2 provides basic information about the openSM2 itself, i.e. the status of the subsystem, the version, the size of the measurement interval and the sampling cycle.

The measured values correspond to the SM2-known report groups and inform for example about

- the CPU usage,
- I/O activities,
- the utilization of the main memory and the virtual address space,
- the allocation of the main memory by the four standard categories of tasks,
- input and output operations on peripheral devices during a measurement interval,
- application-specific data of UTM applications,
- individual virtual machines of a VM2000 system,
- consumption values of individual tasks.

SNMP agent for openUTM

The openUTM agent offers the following services:

- monitoring and control of selected UTM applications
- information about system parameters, physical and logical terminals, terminal pools, transaction codes, transaction classes, user data, connections
- statistical data
- changing application properties and system parameters
- locking or unlocking UTM data stations
- changing the configuration file
- terminating an UTM application

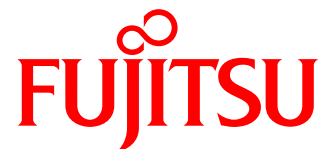
SNMP agent for Spool & Print Services

The Spool & Print Service agent is used to monitor SPOOL and RSO devices. The Print Service agent is delivered with a proprietary MIB that provides information about devices and print jobs.

SNMP agent for Storage

The agent for storage management provides information about pubsets and disks as well as the availability of the storage management products HSMS, MAREN and ROBAR. Accordingly, a proprietary MIB is delivered with the agent, which contains in addition to the global data of the agent four groups with the following information:

- general information about HSMS, MAREN and ROBAR
- resources information
- display of all pubsets in a table
- display of all disks in a table



Technical Details

Requirements

Technical Requirements Hardware	FUJITSU Server BS2000 SE series
Technical Requirements Software	FUJITSU Software BS2000 OSD/XC from V11.0, correction level as of KP1/2018
Demands on the user	Knowledge of BS2000

Installation and operation

Operating mode	Interactive (dialog) and batch mode
User interface	Commands in English, message texts in German/English
Installation	By the customer according to the release notice

Documentation

Documentation	The manuals concerned are available on the manual server .
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Purchasing

Conditions	This software product can be leased by the customer in accordance with the conditions for the use of software products.
Ordering and delivery	This software product may be obtained from your local Fujitsu Technology Solutions GmbH regional office.

More information

Fujitsu products, solutions & services

Products

www.fujitsu.com/global/products/

In addition to the Fujitsu BS2000, Fujitsu offers a full portfolio of other computing products.

Computing products

- Storage systems: ETERNUS
- Server: PRIMERGY, PRIMEQUEST, Fujitsu SPARC M10, BS2000/OSD Mainframe
- Client Computing Devices: LIFEBOOK, STYLISTIC, ESPRIMO, FUTRO, CELSIUS
- Peripherals: Fujitsu Displays, Accessories
- Software
- Network

Product Support Services with different service levels agreements are recommended to safeguard each product and ensure smooth IT operation.

Solutions

<http://www.fujitsu.com/global/solutions>

The Fujitsu solutions combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships. Fujitsu's Solutions include parts of one or more activity groups (e.g., planning, implementation, support, management, and training services) and are designed to solve a specific business need.

Infrastructure Solutions are customer offerings created by bringing Fujitsu's best products, services and technologies together with those from partners to deliver benefit to our customers' businesses.

Industry Solutions are tailored to meet the needs of specific verticals.

Business and Technology Solutions provide a variety of technologies developed to tackle specific business issues such as security and sustainability, across many verticals.

Services

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Several customizable Fujitsu Service offerings ensure that IT makes a real difference and delivers true business value. We do this by leveraging our extensive experience in managing large, complex, transformational IT programs to help clients in planning, delivering and operating IT services in a challenging and changing business environment.

Application Services support the development, integration, testing, deployment and on-going management of both custom developed and packaged applications. The services focus on delivering business and productivity improvements for organizations.

Business Services respond to the challenge of planning, delivering and operating IT in a complex and changing IT environment.

Managed Infrastructure Services enable customers to deliver the optimal IT environment to meet their needs – achieving high levels of IT service quality and performance for data center and end user environments.

Fujitsu green policy innovation

www.fujitsu.com/global/about/environment/

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:



More information

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Contact

Fujitsu Technology Solutions GmbH
Mies-van-der-Rohe-Straße 8, 80807 München
Website: www.fujitsu.com/fts
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