

# Datasheet

## Fujitsu Software BS2000 SNMP-AGENTS V1.1

### 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 products HSMS, openFT, open SM2, openUTM and as of SNMP-AGENTS V1.1B also for BCAM, TCP-IP-AP and SESAM/SQL.



# 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 BCAM agent, the FTP agent and the SASAM agent are also integrated in SNMP AGENTS from V1.1B. Up to and including SNMP AGENTS V1.1A and BS2000 Service Pack 20.1, these agents are implemented in the corresponding products BCAM/openNet Server, TCP-IP-AP/interNet Services and SESAM/SQL.

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.

## 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 BCAM

The BCAM agent offers the following monitoring options:

- BCAM memory allocation and trace settings
- Applications configured in BCAM
- Connections, routers, routes, network connections and hosts
- Mapping of addresses and applications

### SNMP Agent for FTP (TCP-IP-AP)

The FTP agent is used to monitor and control the FTP server. Among other things, information on starting and stopping the server, server-specific data and connection data is provided. In addition, a number of control options are available for the server, e.g. starting and shutdown of the FTP server, setting the FTAC level and activating/deactivating a socket trace or debugging.

### 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. Almost all measured values of the reports of openSM2 are supported. These inform for example about

- the CPU usage,
- I/O activities,

- the utilization of the main memory and the virtual address space,
- 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 SESAM / SQL

The SESAM / SQL Agent supplies information about SESAM / SQL databases and about DBHs and DCNs that are used to run these databases.

### 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 Serie
Technical requirements Software	Fujitsu Software BS2000 OS DX V1.0 or OSD/XC V11.0B
Requirements for the user	Knowledge of BS2000

## Installation and operation

Operating mode	Dialog and batch mode
User interface	Commands in English, Message texts in German/English (optional)
Installation	By the customer according to the release notice

## Documentation and training

Documentation	The Manual and Release Notice for SNMP-AGENTS are available on the <a href="#">manual server</a> .
Training	See <a href="#">course offer</a> (German)

## Reference and delivery

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

## Contact

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