

Network Management Protocol SNMP (Simple Network Management Protocol)

The System Manager Server uses Net-SNMP as an SNMP agent which is commonly used under the UNIX series operating systems including Linux and has an established reputation. It provides management information on the devices such as switchers, panels, and DMEs that are connected to the System Manager Server, to the SNMP manager such as the Sony MMStation BZNW-5000.

Installing the SNMP Agent

The SNMP agent is installed at the same time when the System Manager is installed.
(The SNMP agent supplied with Red Hat Linux is not used.)

Starting Up the SNMP Agent

The SNMP agent starts up automatically when the PC is rebooted after installing System Manager Server.

At the first startup after installation, the Trap address needs to be set on the System Manager client GUI. Refer to the "BZPS-8000 User's Guide" for details on setting the Trap address (Section 3, "Setting Trap Address of the Device Monitor").

If the SNMP function is not used, set the Trap address to "0.0.0.0".

Operation after Start-up

No operation on the SNMP agent is required after start-up.

Information on the devices connected to the server can be displayed by operating SNMP Manager on Sony MMStation BZNW-5000 or other servers.

Refer to the instruction manuals of respective SNMP Managers for details on how to display the information.

The screens shown below are examples for the BZNW-5000.

Display example with BZNW-5000

Product Information screen

The screenshot shows a Java Applet Window titled "Product Information - sm8". It displays the following information:

Product Information

Device ID: 43.25.112.174
sm8

Device ID	SMS001D001
Manufacturer	Sony
Model	BZPS-8000
Model Suffix	
Destination	SY
Serial Number	
Category	controller
Version	1.50
Version Suffix	

Product ID Information Table

Index	Device ID	Manufacturer	Model	Model Suffix	Destination	Serial Number	Category	Version	Version Suffix
1	SMS001D001	Sony	BZPS-8000		SY		controller	1.50	
2	PNL001D001	Sony	MKS-8010		SY		controller	3.10	
3	SWR001D001	Sony	MVS-8000		SY		switcher	3.10	
4	DME001D001	Sony	MKS-8800		SY		dme	3.10	
5	PNL002D001	Sony	MKS-8010		SY		controller	3.10	
6	PNL002D002	Sony	CCP9000		SY		controller	3.10	
7	SWR002D001	Sony	DVS-8000		SY		switcher	3.10	
8	DME002D001	Sony	BKDS-9470		SY		dme	3.10	

Module Information Table

Index	Device ID	Product Name	Serial Number	Module Type	Module Name	Module Name Suffix	Version	Version Suffix
1	PNL002D002	CCP9000 SY		softwareModule(3)	CCP9000-CTRL-MAIN-BOOT		1.10	(Dec.14.2001 15:57)
2	PNL002D002	CCP9000 SY		softwareModule(3)	CCP9000-CTRL-MAIN-APP		3.10	R1_3 (Jan.5.2004 15:57)
3	PNL002D002	CCP9000 SY		softwareModule(3)	CCP9000-COMM1-MAIN-BOOT		1.30	(Mar.18.2003 22:10)
4	PNL002D002	CCP9000 SY		softwareModule(3)	CCP9000-COMM1-MAIN-APP		1.30	(Mar.18.2003 22:10)
5	PNL002D002	CCP9000 SY		softwareModule(3)	CCP9000-COMM1-MAIN-BOOT		1.30	(Mar.18.2003 22:10)
6	PNL002D002	CCP9000 SY		softwareModule(3)	CCP9000-COMM1-MAIN-APP		1.30	(Mar.18.2003 22:10)

Close

Java Applet Window

This screen displays the Device ID, model name, and product version No. etc. If the device has the sub information, model names and other information contained in it are also displayed.

The Device ID consists of the following formats.

- Three alphanumeric characters that indicate the model category (Table 1)
- Three-digit number that indicates the LAN group number to which the unit is connected
- One alphabetic character that indicates the LAN type (Table 2). "D" is typically used for System Manager.
- Three-digit number that indicates the unit number by model.

For example, the name of the first host in the MVS Processor connected to the Data LAN group No. 1 will be:

SWR001D001

Table 1: Model category

System Manager	SMS
Switcher Processor	SWR
Switcher Panel	PNL
DME Processor	DME

Table 2: LAN type

Control LAN	C
Peripheral LAN	P
Data LAN	D
User LAN	U

Error/Warning Information screen

43.25.112.174
sm8

Error/Warning Information

Product Information Table

Index	Device ID	Manufacturer	Model	Model Suffix	Destination	Serial Number	Category	Version	Version Suffix
1	SMS001D001	Sony	BZPS-8000		SY		controller	1.50	
2	PNL001D001	Sony	MKS-8010		SY		controller	3.10	
3	SWR001D001	Sony	MVS-8000		SY		switcher	3.10	
4	DME001D001	Sony	MKS-8800		SY		dme	3.10	
5	PNL002D001	Sony	MKS-8010		SY		controller	3.10	
6	PNL002D002	Sony	CCP9000		SY		controller	3.10	
7	SWR002D001	Sony	DVS-8000		SY		switcher	3.10	
8	DME002D001	Sony	BKDS-9470		SY		dme	3.10	

Current Error/Warning Information Table

Index	Device ID	Product	Severity	Error Code	Time	Description
1	DME001D001	MKS-8800 SY	major		2003/12/02 19:09:00:00 GMT+09:00	Mainframe Fan-RA ERROR
2	DME001D001	MKS-8800 SY	major		2003/12/02 19:09:00:00 GMT+09:00	Mainframe Fan-RB ERROR
3	DME001D001	MKS-8800 SY	major		2003/12/02 19:09:00:00 GMT+09:00	Mainframe Fan-LA ERROR
4	DME001D001	MKS-8800 SY	clear		2003/12/02 19:09:00:00 GMT+09:00	Mainframe Fan-LB OK
5	DME001D001	MKS-8800 SY	clear		2003/12/02 19:09:00:00 GMT+09:00	Power1 Exist OK
6	DME001D001	MKS-8800 SY	clear		2003/12/02 19:09:00:00 GMT+09:00	Power1 Fan OK
7	DME001D001	MKS-8800 SY	clear		2003/12/02 19:09:00:00 GMT+09:00	Power1 AC OK
8	DME001D001	MKS-8800 SY	clear		2003/12/02 19:09:00:00 GMT+09:00	Power1 DC OK
9	DME001D001	MKS-8800 SY	clear		2003/12/02 19:09:00:00 GMT+09:00	Board Fuse OK
10	DME001D001	MKS-8800 SY	clear		2003/12/02 19:09:00:00 GMT+09:00	Reference Exist OK
11	DME001D001	MKS-8800 SY	clear		2003/12/02 19:09:00:00 GMT+09:00	Reference Status OK
12	DME001D001	MKS-8800 SY	clear		2003/12/02 19:09:00:00 GMT+09:00	Reference Lock OK

Close

Java Applet Window

If an event that should be notified such as an error in the device occurs, the contents, cause, level of importance, date and time of occurrence, etc. are displayed.