

MIB Specification

WJ-ND200 Series

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Panasonic System Networks Co.,Ltd.

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1. Introduction

This document is described about a part of MIB information of WJ-ND200 series.

Important:

The Live image view to PC might stop for a few ten seconds when the load is put on the communication between WJ-ND200 - PC as the MIB is downloaded in bulk. However recording is continued.

2. Outline

The MIB information to be implemented is Read only, and Set/Write is impossible.

2.1. MIB structure

Category	Object name	Description
Common MIB (MIB-2)	System	<ul style="list-style-type: none"> -Model No. Software version -Vender OID -The time since the network management portion of the system was last re-initialized -The contact person for this managed node -An administratively-assigned name for this managed node -The physical location of this node -A value which indicates the set of services that this entity primarily offers
	Interface	<ul style="list-style-type: none"> -The number of LAN interface -Index of LAN interface -Information about LAN interface -The type of LAN interface -MAC address
	Ip	<ul style="list-style-type: none"> -IPv4 address -Index of interface as IPv4 address -Subnet mask of interface as IPv4 address
Private MIB	Panasonic	<ul style="list-style-type: none"> -vendor name -Model number -Current date and time -Serial number
	SSD	<ul style="list-style-type: none"> -The number of user access -The number of alarm
		<ul style="list-style-type: none"> -The number of Access log -Index of Access log -The date and time of Access log -Access log type
		<ul style="list-style-type: none"> -The number of Network log -Index of Network log -The date and time of Network log -Network log type

Category	Object name	Description
Private MIB	HDR	-The number of Event log -Index of Event log -The date and time of Event log -Event log type
		-The number of Error log -Index of Error log -The date and time of Error log -Error log type
		-HDD capacity -HDD hour meter
		-Reboot status
		-Camera connection

3. Common MIB (MIB-2)

Important:

About MIB which is not defined with this document, it is Linux standard MIB.

It is not guaranteed about the contents.

3.1. system

MIB-2=1.3.6.1.2.1

No.	Object name	Syntax	Access	OID	Description	Factory default
1	sysDescr	DisplayString (size0..255)	RO	MIB2.1.1	Model No. Software version	e.g. WJ-ND200 SWVer1.00
2	sysObjectID	ObjectIdentifir	RO	MIB2.1.2	Vender OID	1.3.6.1.4.1.258.5100. 200 (Fix)
3	sysUpTime	TimeTicks	RO	MIB2.1.3	The time since the network management portion of the system was last re-initialized. (Value x 10ms) It is not accumulation time. (0~4294967295) e.g. 10s is value of "1000", because 10s=1000x10ms	0
4	sysContact	DisplayString (size0..255)	RO	MIB2.1.4	the contact person for this managed node, information on how to contact this person	NULL *This item can be set from the ND200 menu on browser.
5	sysName	DisplayString (size0..255)	RO	MIB2.1.5	An administratively-assigned name for this managed node. This is the node's fully-qualified domain name.	NULL *This item can be set from the ND200 menu on browser.
6	sysLocation	DisplayString (size0..255)	RO	MIB2.1.6	The physical location of this node.	NULL *This item can be set from the ND200 menu on browser.
7	sysServices	Integer (0..127)	RO	MIB2.1.7	A value which indicates the set of services that this entity primarily offers.	64(Fix)

3.2. Interface

MIB2=1.3.6.1.2.1

No.	Object name	Syntax	Access	OID	Description	Factory default
8	ifNumber	Integer (0..127)	RO	MIB2.2.1	The number of LAN interface	2 (Fix)
9	ifIndex	InterfaceIndex	RO	MIB2.2.2.1.1.1	Index of LAN interface (1)	1 (Fix)
			RO	MIB2.2.2.1.1.2	Index of LAN interface (2)	2 (Fix)
10	IfDescr	DisplayString (SIZE (0..255))	RO	MIB2.2.2.1.2.1	Information about LAN interface (1)	LAN1 (Fix)
			RO	MIB2.2.2.1.2.2	Information about LAN interface (2)	LAN2 (Fix)
11	ifType	InterfaceIndex	RO	MIB2.2.2.1.3.1	The type of LAN interface (1)	6 (Fix)
			RO	MIB2.2.2.1.3.2	The type of LAN interface (2)	6 (Fix)
12	ifPhyAddress	InterfaceIndex	RO	MIB2.2.2.1.6.1	MAC address of eth0	MAC address of device(Fix)
			RO	MIB2.2.2.1.6.2	MAC address of eth1	MAC address of device(Fix)

*) LAN1 is a Network port in the back of ND200.

*) LAN2 is a Maintenance port in the front of ND200.

3.3. IP

MIB2=1.3.6.1.2.1

No.	Object name	Syntax	Access	OID	Description	Factory default
13	ipAdEntAddr	IpAddress	RO	MIB2.4.20.1.1. ipv4address	IPv4 address of eth0	192.168.0.250
			RO	MIB2.4.20.1.1. ipv4address	IPv4 address of eth1	192.168.1.250
14	ipAdEntIndex	Integer (0..127)	RO	MIB2.4.20.1.2 .ipv4address	Index of eth0 as IPv4 address	1
			RO	MIB2.4.20.1.2. ipv4address	Index of eth1 as IPv4 address	2
15	ipAdEntNetM ask	IpAddress	RO	MIB2.4.20.1.3 .ipv4address	Subnet mask of this index of IPv4 address	255.255.255.0
			RO	MIB2.4.20.1.3 .ipv4address	Subnet mask of this index of IPv4 address	255.255.255.0

4. Private MIB

4.1. Panasonic common MIB

Panasonic=1.3.6.1.4.1.258

No.	Object name	Syntax	Access	OID	Description	Factory default
1	panaNceEqG eneralVendor Name	DisplayString (SIZE (0..255))	RO	Panasonic.1.2.1.1	The vendor name of the net appliance	Panasonic
2	panaNceEqG eneralModel	DisplayString (SIZE (0..255))	RO	Panasonic.1.2.1.2	The model number of the net appliance	WJ-ND200
3	panaNceEqG eneralDayTim e	DateAndTime	RO	Panasonic.1.2.1.10	The current date and time set on the net appliance	
4	panaNceEqG eneralSerialN um	DisplayString (SIZE (0..255))	RO	Panasonic.1.2.1.13	The serial number of the net appliance	NULL

4.2. PssSSD common MIB (common)

PssSSD common MIB is shown as follows. Security common MIB is under 1.3.6.1.4.1.258.5100.

PssSSD =1.3.6.1.4.1.258.5100 (PssSSD Common is described SSD.1)

No.	Object name	Syntax	Access	OID	Description	Factory default
5	UserAccessCount	Integer	RO	PssSSD.1.1	The number of user that accesses device via network (0-99)	0
6	AlarmSumNum	Integer	RO	PssSSD.1.2	counting the number of alarm from device boot. counting from 0 to 4294967295 with 32bit. When exceed Max value, count from 0 again. *) Not counting emergency recording.	0

4.3. PssSSD common MIB (Access log)

Common log is 1.3.6.1.4.1.258.5100.3, and there are two kinds of log.

- * Access log
- * Network log

Network Disk Recorder has Event log and Trouble log in addition to the above Access log and Network log. Event log and Trouble log do not belong to Security common MIB, belong to HDR.

PssSSD=1.3.6.1.4.1.258.5100 (PssSSD is described PssSSD.1.3)

No.	Object name	Syntax	Access	OID	Description	Factory default
7	AccLogNumber	Integer	RO	PssSSD.1.3.1	The number of Access log (0-100)	0
8	AccLogIndex	Integer (1...100)	RO	PssSSD.1.3.2.1.1	Index of Access log	0
9	AccLogDayTime	DateAndTime	RO	PssSSD.1.3.2.1.2	The date and time of Access log "e.g. 02-10-29 12:00:00"	NULL
10	AccLogType	DisplayString (SIZE0...255)	RO	PssSSD.1.3.2.1.3	"Access type"- "User name" *There is a detail as follows.	NULL

"Access type " - "Username"

Access Type

Category	Access type	Access type No.
Login/Logout	Login	001
	Logout	002

Username

Username	Value
Browser access user	Registered username
PC access user	Registered username
FTP access user	Registered username

4.4. PssSSD common MIB (Network log)

Network log is shown as follows.

PssSSD=1.3.6.1.4.1.258.5100 (PssSSD is described PssSSD.1.3)

No.	Object name	Syntax	Access	OID	Description	Factory default
11	NetLogNumber	Integer	RO	SSD.1.3.3	The number of network log (1-1000)	0
12	NetLogIndex	Integer (1...1000)	RO	SSD.1.3.4.1.1	Index of network log	0
13	NetLogDayTime	DisplayString (SIZE0...255)	RO	SSD.1.3.4.1.2	The date and time of network log "e.g. 02-10-29 12:00:00"	0
14	NetLogType	DisplayString (SIZE0...255)	RO	SSD.1.3.4.1.3	Network log type "Protocol type"- "Category"- "Log type" *There is a detail in next page.	0

4.4.1. Protocol type of network log type

Protocol type	Protocol type No.	
	Value	Range
SMTP	00	00~99
FTP	01	00~99
DDNS	02	00~99
NTP	03	00~99
SNMP	04	00~99
DHCP	05	00~99
HTTP	06	00~99
CONFIG_LOGIN	08	00~99
LINK_ERROR	09	00~99
Other	99	00~99

4.4.2. Network log category

Category	Category No.	
	Value	Range
Success	00	00~99
POP3 Error	01	00~99
SMTP Error	02	00~99
FTP Error	03	00~99
Connect Error	04	00~99
Internal Error	05	00~99

4.4.3. Network log type

Network log type	Type No.	"Protocol type"- "Category"- "Log type"
	Value	
SMTPMAIL_SEND	00	00-00-00
<SMTP>POP3_ATTEST_ERR	01	00-01-01
SMTPPOP3ADD_ERR	02	00-05-02
SMTPPOP3SVR_ERR	03	00-04-03
SMTPSVRADD_ERR	04	00-05-04
SMTPSVR_ERR	05	00-04-05
SMTPRCPTTO_ERR	07	00-02-07
FTPCLIENT_OK	09	01-00-09
FTPSVRFWD_OK	10	01-00-10
FTPSVRADD_ERR	11	01-03-11
FTPSVR_ERR	12	01-03-12
FTPPASSIVE_ERR	14	01-04-14
FTPLGIN_FAULT	16	01-03-16

Network log type	Type No.	"Protocol type"- "Category"- "Log type"
	Value	
FTPOTHER	20	01-05-20
DDNSIPADDUPDATE_OK	21	02-00-21
DDNSSVRRES_ERR	22	02-04-22
DDNSUSERPASS_ERR	23	02-04-23
DDNSOTHER	25	02-05-25
NTPGETTIME_OK	26	03-00-26
NTPSVRADD_ERR	27	03-05-27
NTPTIME_INVALID	30	03-05-30
NTPSVRRES_ERR	32	03-05-32
SNMPSEND_OK	34	03-05-33
SNMPUSERPASS_ERR	35	04-05-35
DHCPPIADD_OK	38	05-00-38
DHCPPIADD_LOST	39	05-04-39
DHCPPIADDUPDATE_ERR	40	05-04-40
HTTPUSERPASS_ERR	45	06-04-45
HTTPDOWNLOAD_ERR	46	06-04-46
HTTPDREQUEST_ERR	47	06-04-47
LINK ERR	52	09-04-52
CONFIG LOGIN	56	08-00-56

4.5. Disk Recorder Category common MIB (Event log)

Event log is shown as follows.

Event log is Disk Recorder Category (HdrCategory) common MIB as PssSSD common MIB.

HdrCategory =1.3.6.1.4.1.258.5100.200

No.	Object name	Syntax	Access	OID	Description	Factory default
15	evtLogNumber	Integer	RO	HdrCategory.1.3	Event log (1-750)	0
16	evtLogIndex	Integer (1...750)	RO	HdrCategory.1.4.1	Index of Event log	NULL
17	evtLogDayTime	DisplayString (SIZE0...255)	RO	HdrCategory.1.4.2	The date and time of event log "e.g. 02-10-29 12:00:00"	NULL
18	evtLogType	Integer	RO	HdrCategory.1.4.3	"Event log type" - "Ch No./Alarm In port No."	NULL

4.5.1. Event log type

Event log type	Type No.	Event type	Channel No. Alarm out No,	
	Value			
TRM	2	02	Alarm In port number(1-32)	
COM	3	03	Channel No,	
EMR	4	04	0 fixed	
SCD	5	05	Channel No,	
SD-LOST	6	06	Channel No,	
SD-ERROR	7	07	Channel No,	
CAM	8	08	Channel No,	
EXT START	9	09	0 fixed	
EXT STOP	10	10	0 fixed	
HDDy ON/OFF ***	11	11	HDD No.	Num of Push
SD START	12	12	0 fixed	
SD ABORT	13	13	0 fixed	
SD END	14	14	0 fixed	

4.5.2. Port number in the back of ND200

Type		Alarm port number
Port number in the back of ND200	No assignment	0
	Port number1	1
	Port number2	2
	Port number3	3
	Port number4	4
	Port number5	5
	Port number6	6
	Port number7	7
	Port number8	8
	Port number9	9
	Port number10	10
	Port number11	11
	Port number12	12
	Port number13	13
	Port number14	14
	Port number15	15
Port number16	16	

4.6. Disk Recorder Category common MIB (Error log)

Error log is Disk Recorder Category (HdrCategory) common MIB as PssSSD common MIB.

HdrCategory=1.3.6.1.4.1.258.5100.200

No.	Object name	Syntax	Access	OID	Description	Factory default
19	ErrLogNumber	Integer	RO	HdrCategory.1.5	The number of error log (1-100)	0
20	errLogIndex	Integer (1...100)	RO	HdrCategory.1.6.1.1 - HdrCategory.1.6.100.1	Index of Error log	NULL
21	errLogDayTime	DisplayString (SIZE0...255)	RO	HdrCategory.1.6.1.2 - HdrCategory.1.6.100.2	The date and time of Error log "e.g. 02-10-29 12:00:00"	NULL
22	errLogType	DisplayString (SIZE0...255)	RO	HdrCategory.1.6.1.3 - HdrCategory.1.6.100.3	Error log type "Error type"- "Unit number"- "Disk number/Channel No./Port No./Area /Fan number" *)reference as fellows	NULL

4.6.1. Error log type

Category	Error type description	Error type	Unit number	Disk number/Channel No./Port No./Area /Fan number
HDD	HDD Write error	001	Unit number	0 fixed
	HDD Read error	002	Unit number	0 fixed
	HDD SMART warning	004	Unit number	Disk number (Both single mode and RAID mode)
	HDD hour meter warning	005	Unit number	Disk number
	Available capacity warning	006	Area number	Remain capacity
	Available capacity warning (FULL)	007	Area number	0
	Remove auto links (per HDD)	016	Unit number	Disk number
	Mirroring recovery failure	017	Unit number	Disk number
	HDD Error	020	000 fixed	0 fixed
	Skip HDD (per HDD)	029	Unit number	Disk number
	Single mode format failure	030	001	Disk number
	Mirroring mode format failure	031	001	0 fixed
	HDD exchange warning	032	001	Disk number
	HDD remove error	033	001	Disk number
Main unit	Fan error	101	Unit number	Fan number
	Thermal trouble	102	Unit number	0 fixed
	Power failure detection	103	000 fixed	0 fixed
	Power failure recovery	104	000 fixed	0 fixed
	USE button pressed number of times	105	000 fixed	The number of detection
Camera	NW camera error detection	203	000 fixed	Channel No.
	NW camera error recovery	204	000 fixed	Channel No.
	Camera SD memory card error	205	000 fixed	Channel No.
	Camera SD memory card starting write error	206	000 fixed	Channel No.
	Camera SD memory card ending write error	207	000 fixed	Channel No.
	Camera SD memory card list request error	208	000 fixed	Channel No.
	Camera SD memory card data obtainment failure	209	000 fixed	Channel No.
	Camera SD memory card data deletion failure	210	000 fixed	Channel No.

	Video loss detection	211	000 fixed	Channel No.
	Video loss recovery	212	000 fixed	Channel No.
	NW camera error detection (audio)	213	000 fixed	Channel No.
	NW camera error recovery (audio)	214	000 fixed	Channel No.
Data	Alteration detected	301	000 fixed	Channel No.

4.6.2. Error log unit number

Type	Unit number
No Unit assignment	000
Main unit	001

4.6.3. Error log Disk number/Channel number/Port number/Area number/Fan number

Type	Disk No.
Disk No. No Disk assignment	0
Main unit1	1
Main unit2	2

Type	Value	Reamrks
Channel No. No Camera No, assignment	0	
Camera1	1	
Camera2	2	
Camera3	3	
Camera4	4	
Camera5	5	
Camera6	6	
Camera7	7	
Camera8	8	
Camera9	9	
Camera10	10	
Camera11	11	
Camera12	12	
Camera13	13	
Camera14	14	
Camera15	15	
Camera16	16	

Type		Port number
Port number	No assignment number	0
	Camera port	1
	Maintenance port	2

Type		Area number
Area number	No assignment area	0
	Normal area	1

Type		Fan number
Fan number	No assignment fan	0
	Fan1	1
	Fan2	2

4.7. Disk Recorder Category common MIB (Internal Error log)

Internal Error log is Disk Recorder Category (HdrCategory) common MIB as PssSSD common MIB.

HdrCategory=1.3.6.1.4.1.258.5100.200

No.	Object name	Syntax	Access	OID	Description	Factory default
23	IntErrLogNumber	Integer	RO	HdrCategory.1.11	The number of Internal Error log (1-200)	0
24	IntErrLogIndex	Integer (1...200)	RO	HdrCategory.1.12.1.1 - HdrCategory.1.12.200.1	Index of Internal Error log	NULL
25	IntErrLogType	DisplayString (SIZED...255)	RO	HdrCategory.1.12.1.2 - HdrCategory.1.12.200.2	Internal Error log Description	NULL

4.8. Disk Recorder Category common MIB (HDD information)

HDD information is Disk Recorder Category (HdrCategory) common MIB as PssSSD common MIB.

HdrCategory=1.3.6.1.4.1.258.5100.200

No.	Object name	Syntax	Access	OID	Description	Factory default
1	HDD	Integer	RO	HdrCategory.1.13.1.1 - HdrCategory.1.13.1.2	HDD capacity(GB)	120
2	HourMeterXX	Integer	RO	HdrCategory.1.13.2.1 - HdrCategory.1.13.2.2	The operating time (hour) of the HDD. (1-99999)	0

4.9. Disk Recorder Category common MIB (Reboot status)

Reboot status is Disk Recorder Category (HdrCategory) common MIB as PssSSD common MIB

HdrCategory=1.3.6.1.4.1.258.5100.200

No.	Object name	Syntax	Access	OID	Description	Factory default
1	rebootRequest	Integer	RO	HdrCategory.1.14	It is shown whether reboot is necessary. 0:Normal state (reboot not need) 1.State of reboot demand (Fixed 0 in WJ-ND200)	0

4.10. Disk Recorder Category common MIB (Camera connection status)

Camera connection status is Disk Recorder Category (HdrCategory) common MIB as PssSSD common MIB

HdrCategory=1.3.6.1.4.1.258.5100.200

No.	Object name	Syntax	Access	OID	Description	Factory default
1	CamSvncState	Integer	RO	HdrCategory.1.15.1 -- HdrCategory.1.15.16	0: connect 1: Not connect Index 1-16 is Camera channel.	-

4.11. Disk Recorder Category common MIB (Temperature)

Temperature is Disk Recorder Category (HdrCategory) common MIB as PssSSD common MIB.

HdrCategory=1.3.6.1.4.1.258.5100.200

No.	Object name	Syntax	Access	OID	Description
1	Temperature	String	RO	HdrCategory.1.16	Temperature of ND200 (The second place of the decimal point is rounded off) * J/G model :degrees centigrade * P model :degrees Fahrenheit e.g. 38.4 deg C 101.1 deg F

5. Community

In setup menu of WJ-ND200, the user can set the community name.

The default value is "NULL".

6. WJ-ND200 SNMP settings

The capital letter and the small letter are distinguished.

WJ-ND200 SNMP settings	Object name	Description	Factory default	Max length
Community		Community name	NULL	32
System name	SysName	Name for this managed node. This is the node's fully-qualified domain name.	NULL	255
Location	Sys Location	The physical location of this node.	NULL	255
Contact	SysContact	the contact person for this managed node, information on how to contact this person	NULL	255

7. MIB under Enterprises

It is fix value.

OID	Name	Description
258	Panasonic	Panasonic
5100	PssSSD	System Solutions Company Security & Sound Systems Business Unit
200	HdrCategory	Disk Recorder Category