

## Instructions for using the MIB

### —、KYLAND Private MIB

#### 1. KYLAND-SMI.MIB

OID: 1.3.6.1.4.1.26067

Type: Private node

**Description:** Private node of Kyland, other private MIBs of the company depend on this node. 2.

#### 2. KYLAND-DEV.MIB

OID: 1.3.6.1.4.1.26067.1.9

Type: Private Node

**Description:** Private device information of Kyland, including device ip, name, running time, some performance nodes of the device such as CPU, memory, etc.

#### kylandDev module node content description:

Serial No.	Node name	Sub-serial No.	Sub-node name	Scalar Meaning	Value domain
1	kylandDevInfo	1	kylandDevNEId	Network Element ID	1-6000
		2	kylandDevIpAddr	Device IP address	
		3	kylandDevIpMask	Single board IP mask	
		4*	kylandDevType	Device Type	Numerical
		5	kylandDevSlotNum	Maximum number of slots	1
		6	kylandDevRunTime	Device Runtime Unit: second	1
		7	kylandDevName	Device name	String
		8	kylandDevMngType	Type of network management supported by the device	Expressed as a mask 0-bit: indicates if SNMP is supported, 1 for support, 0 for not; 1-bit: indicates if CLI is supported, 1 for support, 0 for not; 2-bit: indicates if WEB is supported, 1 for support, 0 for not.
		9	kylandDevSnmpVersion	snmp version	Fixed to 2 (snmp V2.0)
		10	kylandDevSnmpRespPort	Port number on which the SNMP agent receives requests	0-65535

11	kylandDevSnmpTrapPort	The port number on which the SNMP agent sends trap messages	0-65535
12	kylandDevMaxAllowTrapDestNum	The maximum number of traps allowed to be sent to the destination, with a minimum value of 1 and a maximum value of 5. EMSs that exceed this number will not receive trap messages	1-5
13	kylandDevSnmpTrapIpAddrList	The SNMP agent sends trap messages to a list of Ip addresses, EMSs that are not in this list do not receive trap messages.	Every 4 bytes, starting from the highest bit, represents an IP address. The missing bits are filled with zeros.
14	kylandDevSnmpROCommunity	Read only the community name of the user, only get operations can be performed	String
15	kylandDevSnmpRWCommunity	Reads and writes the user's community name, can perform get and set operations	String
16	kylandDevMaxAllowEmsNum	The maximum number of EMSs allowed to access the network, the minimum value is 1 and the maximum value is 5.	From 1 to 5
17	kylandDevMgrIpAddrList	The list of management station IP addresses, only the EMS in this list can manage the whole network element.	Every 4 bytes, starting with the highest bit, represents an IP address. The insufficient bits are filled with 0
18	KylandDevMasterPowerState	Status of the main power supply of the device	1: Power supply is normal 2: Power supply is not working
19	KylandDevBackupPowerState	Status of standby power supply of the device	1: Power supply is normal 2: Power supply is not working
20	kylandDevRowState	Row Status	
21	kylandDevSaveOrLdDefault	Numeric	1: Save ; 2: Load default
22	kylandGetDevMac	Device MAC	
23	kylandDevSysLogAddr	IP address of the receiving	

		List	SysLog		
		24	kylandDevSNTPAddrList	IP address of SNTP	
		25	kylandDevReStart	Reserved	Default value 0
		26	kylandDevTimezoneAddZone	Reserved	Default value 0
		27	kylandDevTimezoneAddMinute	Reserved	Default value 0
		28	kylandDevTimezoneSubZone	Reserved	Default value 0
		29	kylandDevTimezoneSubMinute	Reserved	Default value 0
		30	kylandDevTypeName	Equipment Type	String
		31	kylandDevSerialNumber	Device serial number	String
		32	kylandDevSwVersion	Device Software Version Information	String
		33	kylandDevHwVersion	Device hardware version information	String
		34	kylandDevLgVersion	Device logical version information	String
2	kylandDevPerformInfo	1	cpuCurrentUtilRate	The one second cpu utilization	Numerical values, 0-100
		2	cpuLongTimeUtilRate	The long time cpu utilization	Numerical values, 0-100
		3	devMemoryTotalNum	The device memory total number	Numerical values
		4	devMemoryFreeNum	The device free memory number	Numerical values
		5	devMemoryAllocNum	The device alloc memory number	Numerical values
		6	cpuUtilRateLimit	CPU Utilisation Threshold	Numerical values, 0-100
		7	memUtilRateLimit	Memory Utilization Threshold	Numerical values, 0-100
		8	devRingLoadRate	Memory Utilization Threshold	Numerical values, 0-100
		9	devMemoryUtilRate	Device memory utilisation = allocated memory*100/(free memory + allocated memory)	Numerical values, 0-100

**SICOM3000A example**, the implementation of kylandDevMgrIpAddrList has errors, some nodes such as devRingLoadRate, devMemoryUtilRate are also not implemented

\*\*\*\* SNMP QUERY STARTED \*\*\*\*

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1: kylandDevNEId.0 (integer) 1
2: kylandDevIpAddr.0 (integer) -1062731714
3: kylandDevIpMask.0 (integer) -256
4: kylandDevType.0 (integer) 4646
5: kylandDevSlotNum.0 (integer) 1
6: kylandDevRunTime.0 (integer) 1732594
7: kylandDevName.0 (octet string) SWITCH [53.57.49.54.43.48 (hex)]
8: kylandDevMngType.0 (integer) 0
9: kylandDevSnmpVersion.0 (integer) 2
10: kylandDevSnmpRespPort.0 (integer) 161
11: kylandDevSnmpTrapPort.0 (integer) 162
12: kylandDevMaxAllowTrapDestNum.0 (integer) 5
13: kylandDevSnmpTrapIpAddrList.0 (octet string) <C0><A8><00><EF><C0><A8><00><E5> [C0.A8.00.EF.C0.A8.00.E5 (hex)]
14: kylandDevSnmpROCommunity.0 (octet string) public [70.75.62.6C.69.63 (hex)]
15: kylandDevSnmpRWCommunity.0 (octet string) private [70.72.69.76.61.74.65 (hex)]
16: kylandDevMaxAllowEmsNum.0 (integer) 1
17: kylandDevMgrIpAddrList.0 (octet string) ><00><A8><C0> [3E.00.A8.C0 (hex)] // There is an error in the SICOM3000A
implementation, the IP order is reversed, apparently it is C0.A8.00.3E
18: kylandDevMasterPowerState.0 (integer) powerNormal(1)
19: kylandDevBackupPowerState.0 (integer) backupPwDisable(2)
20: kylandDevRowState.0 (integer) active(1)
21: kylandDevSaveOrLdDefault.0 (integer) save(1)
22: kylandDevGetDevMac.0 (octet string) <00><01><C1><01><00><01> [00.01.C1.01.00.01 (hex)]
23: kylandDevSysLogAddrList.0 (octet string) (zero-length)
24: kylandDevSNTPAddrList.0 (octet string) (zero-length)
25: kylandDevReStart.0 (integer) 0
26: kylandDevTimezoneAddZone.0 (integer) 0
27: kylandDevTimezoneAddMinute.0 (integer) 0
28: kylandDevTimezoneSubZone.0 (integer) 0
29: kylandDevTimezoneSubMinute.0 (integer) 0
30: kylandDevTypeName.0 (octet string) SICOM3000A-12GX8GE [53.49.43.4F.4D.33.30.30.41.2D.31.32.47.58.38.47.45 (hex)]
31: kylandDevSerialNumber.0 (octet string) 201501090000000001 [32.30.31.35.30.31.30.39.30.30.30.30.30.30.30.30.31 (hex)]
32: kylandDevSwVersion.0 (octet string) R3006 [52.33.30.30.36 (hex)]
33: kylandDevHwVersion.0 (octet string) V1.1 [56.31.2E.31 (hex)]
34: kylandDevLgVersion.0 (octet string) V1.0.0 [56.31.2E.30.2E.30 (hex)]
**** SNMP QUERY FINISHED ****

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## kylandDevType Corresponding device table

Value of kylandDevType	Device type
12288	SICOM3028GPT-L2GT
12289	SICOM3028GPT-L2FT
12290	SICOM3028GPT-L2G
12291	SICOM3028GPT-L2F
24576	SICOM3028GPT-L3GT

24577	SICOM3028GPT-L3FT
24578	SICOM3028GPT-L3G
24579	SICOM3028GPT-L3F
917505	SICOM3024P
37	SMAR5000
24589	SICOM6300
17170696	SICOM6448G-4XG-16G-32GE
17170691	SICOM6448G-16G-32GE
24581	Aquam8512
24584	Aquam8512A
6293504	
6293505	
6293506	
6293516	
6293517	
6293521	
6293522	
6293760	Aquam8512A-1U-10T
6293761	Aquam8512A-1U-2GE8T
6293762	Aquam8512A-1U-4GE8T
8449	Aquam8012A-1U-2GE8T
8450	Aquam8012A-1U-10T
8705	DGCOM3000
8706	
8193	Aquam8012A
...	
8202	
7340033	SICOM3008GV/PN-2GX6GE
7340034	SICOM3014GV-4GX10GE
7340035	SICOM3008GV/PN-8GE
4097	SICOM3000A
...	
4106	
4622	
...	
4650	
4653	
...	
4658	
4353	SICOM3000A-E
...	
4362	

4609 ... 4621	SICOM3000A-T
1835009 1835010 1835011 1835012 1835013	Aquam8020
2752513	SICOM3416H-4GX-16T
2686977 2686978 2686979 2686980	SICOM3172
1245185 1245186 1245187 1245188 1245189 1245190	Aquam8010
1703937 1703938 1703939 1703940 1703941 1703942	SICOM5424R
2555905	SICOM3307S
2621441	SICOM3008S
65536 65537 65538 65539 65540 65541 65542	SICOM3000
6001	SICOM3024G-12G12GE
20481 20482 20483	SICOM3448G-4XG8G16GE SICOM3448G-4XG8G24GX16GE SICOM3448G-4XG20G28GE
6294272	SICOM6024G-12G-12GE
6294016 6294017 6294020	SICOM6448G-20G28GE SICOM6448G-4XG-20G28GE SICOM6448G-8G24GX16GE

6294021	SICOM6448G-4XG-8G24GX16GE
917523	SICOM3024P(V3.1)
917537 917538 917539 917540 917541 917542	SICOM3024P(V4)
917506 917507 917508	SICOM3024PT SICOM3024PT-18 SICOM3024PT-28
1966081	SICOM3024PE
1900548	SICOM3416F
131072 131073 ..... 131086 131090 ..... 131099	SICOM3024
1769473	SICOM3024
1507329	SICOM3024-4G-24T
196609	SICOM3024-EX
983041 983042 983043	SICOM2024M-24T SICOM2024M-1S/M-24T SICOM2024M-2S/M-24T
1441793 1441794 1441795 1441796 1441797 1441798	SICOM2024M-4S/M-24T SICOM2024M-2S/M-24T(new) SICOM2024M-1S/M-24T(new) SICOM2024M-24T(new) SICOM2024M-16T(new) SICOM2024M-2SFP-24T(new)
1048576 1048577 1048579 1048580	SICOM3005 SICOM3005-2S/M-3T SICOM3005-2S/M-4T SICOM3005-6T
2686993 2686994 2686995 2686996	SICOM3005A-2S/M-4T-4D SICOM3005A-6T-4D SICOM3005A-2S/M-4T SICOM3005A-6T

720896	SICOM3016
1376257	SICOM3016B-4G-16T
1376258	SICOM3016B-2G-16T
262152	SICOM3008BA-2S/M-6T
262149	SICOM3009-3S/M-6T
262151	SICOM3009-2S/M-6T
524289	SICOM3048
393227	SICOM6000(NEW)
252	SICOM6000
3840	SICOM6424M-12S/M-8T
16/17/18	SICOM6424SM
524290	SICOM3048-2G-48T
524291	SICOM3048-4G-48T
393226	SICOM6496
393228	SICOM6496-48FE-4GX
393231	SICOM6496-24GE-4GX
262145	SICOM3000BA-6T
262146	SICOM3000BA-3GX-6T
262153	SICOM3000BA-EM-C-3GX-6T
262155	SICOM3000BA-1GX-6T
262156	SICOM3000BA-2GX-6T
262157	SICOM3000BA-EM-C-2GX-6T
262147	SICOM3009BA
262154	SICOM3009BA-EM-C-3S-6T
33554432	SICOM4000
393217	SICOM4001
458753	SICOM4002
786432	SICOM3024SM
786433	SICOM3024SM-24T
786434	SICOM3024SM-2G-24T
786435	SICOM3024SM-4G-24T
262148	SICOM3170
393225	SICOM6448SM
2097154	KOM300M
2293761	SICOM3009A-8T
2293762	SICOM3009A-1M-7T
2293763	SICOM3009A-2M-6T
2293764	SICOM3009A-3M-6T
2293765	SICOM3009A-1S-7T
2293766	SICOM3009A-2S-6T
2293767	SICOM3009A-3S-6T



4701	SICOM3009A-6T
4702	SICOM3009A-8T(V2)
4703	SICOM3009A-1S/M-4T
4704	SICOM3009A-2GX-8T
2359297	SICOM3306-2GX-6T
2359298	SICOM3306-3GX-6T
2359299	SICOM3306-1GX-2M-6T
2359300	SICOM3306-1GX-2S-6T
2359301	SICOM3306-1GX-8T
655363	SICOM8000
1572865	SICOM3016BA-4GX-12S/M
1572869	SICOM3016BA-2GX-12S/M
1572873	SICOM3016BA-3GX-12S/M
1572877	SICOM3016BA-12S/M
1638409	SICOM3016DH-3GX-12S/M
1024579	SICOM6424P
12305	SICOM3306PT-3GX-6T
2424833	SICOM3216-16T
2424834	SICOM3216-2M-14T
2424835	SICOM3216-2S-14T
2424836	SICOM3216-2G-16T
2424837	SICOM3216-2G-2M-14T
2424838	SICOM3216-2G-2S-14T
2162689	KIEN2006-2M-4T
2162690	KIEN2006-2S-4T
2228225	KIEN7009-8T
2228226	KIEN7009-1M-7T
2228227	KIEN7009-2M-6T
2228228	KIEN7009-3M-6T
2228229	KIEN7009-2M-4T
2490369	SICOM3010G-2G-8T
2490370	SICOM3010G-8T
917520	PTC1000
917521	
8347	SICOM6424G
8719	SICOM3424G

### 3. KYLAND-LLDP.MIB

Module: lldpMIB

OID: 1.3.6.1.4.1.26067.1.15

Type: Private Node

Description: Private Neighbourhood Information (LLDP) for Kyland.

表	ID	项	DESC	Value Domain
lldpRemTable	1	lldpRemLocalPortNum	Local Port	
	2	lldpRemChassisIdSubtype	Remote Chassis Type	
	3	lldpRemChassisId	Remote chassis	IP address e.g. C0.A8.FE.0D or MAC address
	4	lldpRemPortIdSubtype	Remote Device Port Type	
	5	lldpRemPortId	Remote Device Port	e.g. 00.16 for port 22
	6	lldpRemSysTimeToLive	TTL	
	7	lldpRemDeviceType	Remote Device Type	Numerical values
	8	lldpRemSysSnmpReqPort	Snmp port	e.g. 161
	9	lldpRemSysSnmpRdComm	The value used to identify time to live associated with the remote system.	e.g. public
	10	lldpRemSysSnmpWtComm	The value used to identify snmp write community associated with the remote system.	e.g. private

#### Example

When the MIB Browser is used to walk node 1.3.6.1.4.1.26067.1.15, the following information is obtained:

- 1: lldpRemLocalPortNum.20 (integer) 772
- 2: lldpRemChassisIdSubtype.20 (integer) networkAddress(5)
- 3: lldpRemChassisId.20 (octet string) <C0><A8><FE><0D> [C0.A8.FE.0D (hex)]
- 4: lldpRemPortIdSubtype.20 (integer) local(7)
- 5: lldpRemPortId.20 (octet string) <00><16> [00.16 (hex)]
- 6: lldpRemSysTimeToLive.20 (gauge) 18
- 7: lldpRemDeviceType.20 (gauge) 131082
- 8: lldpRemSysSnmpReqPort.20 (gauge) 161

9: lldpRemSysSnmpRdComm.20 (octet string) public [70.75.62.6C.69.63 (hex)]

10: lldpRemSysSnmpWtComm.20 (octet string) private [70.72.69.76.61.74.65 (hex)]

Indicates the following link connections:

Item	DESC	Value	Explanation
1.lldpRemLocalPortNum	Local port	772	772 needs to be converted to hex 0304, i.e. Ethernet3/4
2.lldpRemChassisIdSubtype	Remote Chassis Type	networkAddress(5)	
3.lldpRemChassisId	Remote chassis	C0.A8.FE.0D	192.168.254.13
4.lldpRemPortIdSubtype	Remote Device Port Type	local(7)	
5.lldpRemPortId	Remote port	00.16	00.16 converted to decimal, i.e. 22
7.lldpRemDeviceType	Remote Device Type	65536	65536 for SICOM3000 devices, see kylandDevType corresponding device table

#### 4. kyland-alarm.mib

Module: kylandAlarm

OID: 1.3.6.1.4.1.26067.1.12

Type: Private Node

**Description:** Kyland's private alarm information (Alarm), kylandAlarmCfgTable is the alarm configuration table, after the alarm is enabled or de-enabled on the WEB page, the device will modify this table; kylandAlarmStateTable (alarm state table), when a new alarm occurs, a record will appear in this alarm table When an alarm disappears, the corresponding record in the table disappears.

Node description:

Table	ID	Item	Meaning	Value field
kylandAlarmStateTable ( Alarm status table )	1	kylandAlarmSlotId	The slot Id of this entry	This value is 1 for stand-alone board devices
	2	kylandAlarmPortID	The port Id of this entry	See *Port description
	3	kylandAlarmType	The Type of Alarm	See *Alarm type description
	4	kylandAlarmState	The state of this alarm	1:Alarm generated 0:Alarm disappears
	5	kylandAlarmGrade	The grade of this alarm	1-Emergency alarm 2-Major alarm 3-Secondary alarms 4-Alarm alert

	6	kylandAlarmClrClause	The clause of this alarm disappear	1:Alarm source disappears 2:Alarm blocking
kylandAlarmCfgTable ( Alarm configuration table )	1	kylandAlarmCfgSlotID	The slot Id of this entry	This value is 1 for stand-alone board devices
	2	kylandAlarmCfgPortID	The port Id of this entry	See Port Index & Alarm List
	3	kylandAlarmTrapType	The Type of Alarm	See the following alarm type codes for details
	4	kylandAlarmCfgGrade	The grade of this alarm	1-Emergency alarm 2-Major alarms 3-Secondary alarms 4-Alert
	5	kylandAlarmCfgAdState	The administrative of this alarm state	1:Enable 2:Disable
	6	kylandAclRowState	The row state of	

### \*Port Description

KylandAlarmPortID, a port ID, is a numerical value that represents a comprehensive encoding method for port type, slot number, and port number. The combination method is as follows:

	portSpeedType	PortType
10BaseTx	0x01	0x01
100BaseTx	0x02	0x02
100BaseFx	0x02	0x07
1000BaseTx	0x03	0x03
1000BaseSx	0x03	0x04
1000BaseLx	0x03	0x05

**Example:** When using the MIB Browser to obtain the kylandAlarmEntryTable information

- 1: kylandAlarmSlotId.2.1.32769 (gauge) 2
- 2: kylandAlarmSlotId.1.1.36865 (gauge) 1
- 3: kylandAlarmPortID.2.1.32769 (gauge) 33686017
- 4: kylandAlarmPortID.1.1.36865 (gauge) 1
- 5: kylandAlarmType.2.1.32769 (gauge) 32769
- 6: kylandAlarmType.1.1.36865 (gauge) 36865
- 7: kylandAlarmState.2.1.32769 (integer) alarmOccur(1)
- 8: kylandAlarmState.1.1.36865 (integer) alarmOccur(1)
- 9: kylandAlarmGrade.2.1.32769 (integer) mainAlarm(2)
- 10: kylandAlarmGrade.1.1.36865 (integer) mainAlarm(2)
- 11: kylandAlarmClrClause.2.1.32769 (integer) alarmVanish(1)
- 12: kylandAlarmClrClause.1.1.36865 (integer) alarmVanish(1)

The above records indicate two alarms:

(1) Port DOWN alarm (32769), slot number 2, port number 1, newly generated, main alarm

Here, the value of kylandAlarmPortID is a decimal value of 33686017 -->, and the hexadecimal value is 0x2020201, which resolves to 100BaseTx (100 megabyte electrical port), slot 2, and port 1.

(2) It is a ring open alarm (36865), with slot number 1 and port number 1. The status is newly generated, and it is a main alarm.

### \*Alarm Type Table

Serial No.	Value	Alarm type explanation	remarks
1	32769 32771	Port Alarms Link Down	
2	36865 36867	Ring Open Alarm	DT-RING
3	40961	Upper Temperature Alarm	
4	45057	Lower Temperature Limit Alarm	
5	53249 53251	IP conflict alarm	
6	57345 57347	MAC conflict alarm	
7	49153 49155	Power supply alarm	
8	6006	Memory utilization over threshold alarm	
9	6008	CPU utilization over threshold alarm	
10	40961	High temperature alarm	

	40963		
11	45057 45059	Low temperature alarm	
12	32773	Port inflow direction flow exceeding threshold alarm	
13	32775	Port outlet direction flow over threshold alarm	
14	32777	Port CRC alarm	
15	32779	Port packet loss rate alarm	
16	33033	Port receiving optical power alarm	
17	36869	DRP Ring Open Alarm	DRP Ring
18	57351	Port Loop Detection Alarm	
19	57353	Link Check Link Alarm	
20	57355	Port Block Exception Generation	

## 5. DT-RING.MIB

Module: kylandDTRing

OID: 1.3.6.1.4.1.26067.1.5

Type: Private Node

**Description:** Private DT-RING ring information for Kyland.

Node description:

Table	Item	Description
kylandDTRingBaseTable	kylandSlotIndex	Slot Index
	kylandDTRingVersion	DTRing Protocol Version ID
	kylandDTRingMaxDomain	DT Ring Number of maximum supported domains

DT-RING configuration table		
kylandDTRingCfgTable	kylandSlotIndex	Slot Index
	kylandDTRingCfgDomainIndex	Domain Index
	kylandDTRingCfgName	Domain Name
	kylandDTRingCfgRole	Role
	kylandDTRingCfgPriority	Priority
	kylandDTRingCfgRingPort1	Ring Port 1
	kylandDTRingCfgRingPort2	Ring Port 2
	kylandDTRingCfgAdState	Management Status
	kylandDTRingCfgRowState	Line Status
DT-RING status table		
kylandDTRingStateTable	kylandSlotIndex	Slot Index
	kylandDTRingFsmDomainIndex	Domain Index
	kylandDTRingFsmPriPortId	Primary Ring Port
	kylandDTRingFsmSecPortId	Secondary ring port
	kylandDTRingFsmConverTimes	Number of ring switches (from CLOSE->OPEN) that

	kylandDTRingFsmState	Primary valid
DTR+ configuration table		
kylandDTRingPlusCfgTable	kylandDTRingPlusCfgSlotId	Slot Index
	kylandDTRingPlusCfgDomainId	Domain index
	kylandDTRingPlusStatus	DTR+ status (The status of this dtringplus)
	kylandDTRingBackPort	Backup Port
	kOpDevSupportDTRingPlus	
	kylandDTRingPlusCfgRowState	Line Status
DTR+ Status Sheet		
kylandDTRingPlusStatusTable	kylandDTRingPlusStatusSlotId	Slot Index
	kylandDTRingPlusStatusDomainId	Domain Index
	kylandDTRingPlusMasterDevIP	The ip of DT-Ring master dev.
	kylandDTRingPlusMasterDevMac	The mac of DT-Ring master dev.
	kOpDevDTRingPlusMasterBackPort	The master back port of this DT-Ring Domain.
	kDTRingPlusMasterBackPortStatus	The master back port status of this DT-Ring Domain
	kylandDTRingPlusSlaveDevIP	The ip of DT-Ring slave dev
	kylandDTRingPlusSlaveDevMac	The mac of DT-Ring slave dev
	kOpDevDTRingPlusSlaveBackPort	The slaver back port of this DT-Ring Domain.
	kDTRingPlusSlaveBackPortStatus	The slaver back port status of this DT-Ring Domain

## 6. kyland-drp.mib

Module: kylandDrp

OID: 1.3.6.1.4.1.26067.1.16

Type: Private Node

**Description:** Private DRP ring information of Kyland, including three tables: DRP base table kylandDrpBaseTable, DRP configuration table kylandDrpCfgTable, DRP state table kylandDrpStateTable.

Node Description:

Table	Item	Description
Drp base table kylandDrpBaseTable	kylandDrpVersion	Protocol version
	kylandDrpMaxDomain	Maximum number of supported domains
Drp configuration tablekylandDrpCfgTable	kylandDrpDomainIndex	Domain Index
	kylandDrpName	Domain Name
	kylandDrpPriorityk	priority
	kylandDrpPort1	Ring Port 1
	kylandDrpPort2	Ring Port 2

	kylandDrpBackPort	Backup Port
	kylandDrpAdState	Management Status
	kylandDrpRowState	Line Status
	kylandDrpCRCThreshold	CRC threshold
Drp status table kylandDrpStateTable	kylandDrpStateDomainIndex	Domain Index
	kylandDrpConvertTimes	Loop switching times (from CLOSE ->OPEN)
	kylandDrpChannelConvertTimes	Channel switching times
	kylandDrpRoleState	Role 1: init(1) 2: root(2) 3: broot(3) 4: normal(4)
	kylandDrpBackPortRoleState	Backup Port Status 1: init(1) 2: slave(2) 3: master(3)
	kylandDrpPort1CRCRate	Ring-Port 1 CRC
	kylandDrpPort2CRCRate	Ring-Port 2 CRC
	kylandDrpBackPortCRCRate	Backup Port CRC
	kylandDrpPort1StpState	Ring-Port 1STP Status 1: forward(1) 2: block(2)
	kylandDrpPort2StpState	Ring-Port 1STP Status 1: forward(1) 2: block(2)
	kylandDrpBackPortStpState	Backup Port STP Status 1: forward(1) 2: block(2)
	kylandDrpPort1LinkCheckState	Ring-Port 1LinkCheck Status 1: true(1) 2: false(0)
	kylandDrpPort2LinkCheckState	Ring-Port 1LinkCheck Status 1: true(1) 2: false(0)
	kylandDrpBackPortLinkCheckState	Backup Port LinkCheck Status 1: true(1) 2: false(0)
	kylandDrpState	Ring Status 1: open(1) 2: close(2)



## 7.KYLAND-PORT.MIB

Module: kylandPort

OID: 1.3.6.1.4.1.26067.1.4

Type: Private Node

**Description:** Kyland's private port information includes the port configuration information table kylandPortCfgTable, port mirroring table kylandPortMirrorTable, port TRUNK table kylandPortTrunckTable, kylandPortCosTable, and port performance table kylandPortPerfTable.

KylandPortCfg node description:

Table name	Column Object	Value field	
kylandPortCfgTable	kylandSlotIndex	Slot index starting from 1	
	kylandPortIfIndex	See port index description	
	kylandPortAuto	1:Self-negotiating	
		0:non-self-negotiating	
	kylandPortSpeed	0:10M	
		1:100M	
		2:1000M	
		3:10G	
	kylandPortDuplex	1: Full duplex	
		0:Half duplex	
	kylandPortAdStatus	1:Enabled	
		0:not enabled	
kylandPortOpStatus	1:LinkUp		
	0:LinkDown		
kylandPortType	See port type description		
kylandPortMirror	1:Mirroring function is set		
	0:Mirroring is not set		
kylandPortTrunck	1:TRUNK function is set		
	0:TRUNK function is not set		
kylandFlowControl	0: Flow control disabled		
	1: Flow control enabled		
kylandPortRowStatus			
kylandPortMirrorTable	kylandSlotIndex	Slot index from 1	
	kylandMirrorID	For SICOM3000 and SICOM4000, there is only one MIRROR group, fixed at 1	
		Whether the mirror function is enabled or not	
	kylandMirrorStatus	1:enabled	
0:not enabled			
kylandMirrorPort	See port descriptions		

	kylandMirrorIngressPortList	A list of ports; A list of 80 ports in total, each occupying four bytes, whose value is the port index, see the port index description; The invalid value is 0xFFFFFFFF, on the device side, no mirroring of subsequent ports is performed when the first invalid value is checked
	kylandMirrorEgressPortList	as above
	kylandMirrorRowStatus	
	<b>Column Object</b>	<b>range</b>
kylandPortTrunkTable	kylandSlotIndex	<b>The slot index starts at 1</b>
	kylandTrunkIndex	<b>Start at 1</b>
	kylandTrunkStatus	1: Enable 0: disabled
	kylandTrunkPortList	See the list of mirrored ingress direction ports in the mirror table
	kylandTrunkRowStatus	
	<b>Column Object</b>	<b>range</b>
kylandPortCosTable	kylandSlotIndex	The slot index starts at 1
	kylandPortIndex	See port index description
	kylandPortCosPri	1: High priority 0: Low priority
	kylandPortCosRowStatus	
	<b>Column Object</b>	<b>range</b>
kylandPortPerfTable	kylandSlotIndex	The slot index starts at 1
	kylandPortIndex	See port index description
	kylandPortSndBytes	UCHAR[8]
	kylandPortSndPkts	UCHAR[8]
	kylandPortRcvBytes	UCHAR[8]
	kylandPortRcvPkts	UCHAR[8]
	kylandPortCrcPkts	UCHAR[8]
	kylandPortUnSizePkts	UCHAR[8]
	kylandPortCrcRate	INTEGER (1..1000000)
	kylandPortCrcThreshold	INTEGER (1..1000000)
	kylandPortIngressRate	INTEGER (1..1000000)

	kylandPortIngressThreshold	INTEGER (1..1000000)
	kylandPortOutgressRate	INTEGER (1..1000000)
	kylandPortOutgressThreshold	INTEGER (1..1000000)
	kylandPortPacketLossRate	INTEGER (1..1000000)
	kylandPortPacketLossThreshold	INTEGER (1..1000000)

## 8. kyland-slot.MIB

Module: kylandSlot

OID: 1.3.6.1.4.1.26067.1.10

Type: Private Node

**Description:** Private slot information of Kyland, containing slot information etc. Only some devices implement it.

Table name	Column Object	Meaning	Value Range
kylandSlot	Column Object		
	kylandSlotIndex	Slot index	Slot index starting from 1
	kylandSlotAdState	Management status, single board use and disable For standalone boards, this value is always 1: enable	1:enable 0:disable
	kylandSlotOpState	Operational status: For standalone boards, this value is always 1: enable	1-6 1:deactive 2:normal, 3:nocard 4:dismatch 5:timeout 6:notinitt 7:unexpected
	kylandSlotExpCardType	The type of board to be secured; (primary and secondary MCCs are fixed to create and do not allow deletion)  The following attributes are only valid if the 'board type' is non-zero; the writable attributes are only writable when the board type is 'modified'	Reference board type
	kylandSlotExpHWVersion	Hardware version; (fixed)	
	kylandSlotActCardType	Real security veneer type	
	kylandSlotActCardSerialNum ber	Serial number of the real security veneer	Board serial number

	kylandSlotActHWVersion	Actual hardware version of the single board (obtained from MCU)	Hardware version
	kylandSlotResetOp	Rebooting a single board	1: Reboot
	kylandSlotRowState	Line Status	

### 9. kyland-update-cfg.mib

Module: kylandUpdateCfg

OID: 1.3.6.1.4.1.26067.1.21

Type: Private Node

**Description:** Private configuration importing MIB information from Kyland, only partially implemented in some devices.

kylandUpdateCfgTable group node description:

Nodes	Subsections	Meaning	Value field
kylandUpdateCfgEntryTable	kylandUpdateCfgServerIP	FTP server IP	Numeric IP address
	kylandUpdateCfgUserName	FTP USER	
	kylandUpdateCfgPassword	FTP PASSWORD	
	kylandUpdateCfgFilename	file name	
	kylandUpdateCfgVersion	Version	1: version1(1) 2: version2(2)
	kylandUpdateCfgState	Upgrade Status	1: success(0) 2: error(1) 3: busy(2)
	kylandUpdateCfgSet	Upgrade Settings ID	1: end(1) 2: begin(0)

### 10. kyland-update.MIB

Module: kylandUpdate

OID: 1.3.6.1.4.1.26067.1.30

Type: Private Node

**Description:** Private software update MIB information from Kyland, only partially implemented in some devices.

kylandUpdateTable group node description:

Nodes	Subsections	Meaning	Value field
kylandUpdateEntryTable	kylandUpdateServerIP	FTP server IP	Numeric IP address
	kylandUpdateUserName	FTP USER	
	kylandUpdatePassword	FTP PASSWORD	
	kylandUpdateFilename	file name	
	kylandUpdateVersion	Version	1: version1(1) 2: version2(2)

	kylandUpdateState	Upgrade Status	1: success(0) 2: error(1) 3: busy(2)
	kylandUpdateSet	Upgrade Settings ID	1: end(1) 2: begin(0)

### 11. kyland-download-cfg.mib

Module: kylandDownloadCfg

OID: 1.3.6.1.4.1.26067.1.22

Type: Private Node

**Description:** Kyland's private configuration for exporting MIB information, only partially implemented in some devices.

kylandDownloadCfgTable group node description:

Nodes	Subsections	Meaning	Value field
kylandDownloadCfgEntryTable	kylandDownloadCfgServerIP	FTP Server IP	Numeric IP address
	kylandDownloadCfgUserName	Download username	
	kylandDownloadCfgPassword	Download Password	
	kylandDownloadCfgFilename	Download file name	
	kylandDownloadCfgVersion	Version	1: version1(1) 2: version2(2)
	kylandDownloadCfgState	Download Status	1: success(0) 2: error(1) 3: busy(2)
	kylandDownloadCfgSet	Download ID	1: end(1) 2: begin(0)

### 12. kyland-log-download.MIB

Module: kylandLogDownload

OID: 1.3.6.1.4.1.26067.1.29

Type: Private Node

**Description:** Private log download MIB information from Kyland, only partially implemented in some devices.

kylandLogDownloadTable group node description:

Nodes	Subsections	Meaning	Value field
kylandLogDownloadEntryTable	kylandLogDownloadServerIP	FTP Server IP	Numeric IP address
	kylandLogDownloadUserName	Download username	
	kylandLogDownloadPassword	Download Password	
	kylandLogDownloadFilename	Download file name	
	kylandLogDownloadVersion	Version	1: version1(1) 2: version2(2)

	kylandLogDownloadState	Download Status	1: success(0) 2: error(1) 3: busy(2)
	kylandLogDownloadSet	Download ID	1: end(1) 2: begin(0)

## 二、Public MIBs

### 13. RFC1213.MIB

Module: mib-2

OID: 1.3.6.1.2.1

Type: public node

**Description:** Information about the base MIB of the network device, supported by all Kyland managed switches.

(1) system group

Implementation, used by the network manager

(2) Interfaces group

Implementation, used by the network administrator

Port Description: ifDescr

OID: 1.3.6.1.2.1.2.2.1.2

Value: See the following table

value
FE
FX
M-ST
M-SC
S-ST
S-SC
GEGX
GE
GX
XG
GigabitEthernet
Ethernet
FastEthernet
10GigabitEthernet
TenGigabitEthernet

(3) Ip groups

Implemented on the device side

Network management uses ipAddrTable, ipRouteTable.

### 14. bridge-mib.mib

Bridge related MIB

Implemented on the device side

Network management uses dot1dBaseBridgeAddress(1.3.6.1.2.1.17.1.1) bridge MAC,  
dot1dBaseNumPorts(1.3.6.1.2.1.17.1.2)

#### 15. ifMIB.mib

Port MIB, iftable upgraded version, providing 64-bit statistics values

Implemented on the device side

Network management uses ifXTable

#### 16. lldp.mib

Public LLDP, neighbour protocol

VTESS series device side implementation

Automatic topology for network management

#### 17. rfc2674-qbridge.mib

VTESS series device side and SICOM3028GPT implementation dot1qVlan  
(1.3.6.1.2.1.17.7.1.4)

Used by network management for VLAN visualization