

# » MS29xx SNMP Support «

Symkloud MS29xx SNMP Support Summary  
Revision 1.1

## 1 Introduction

The SNMP solution for the Symcloud MS29xx is made up of MIBs covering 2 (independent) key components, the Platform MIBs and the Switch MIBs.

## 2 Minimum required Firmware Versions

The following Firmware versions are the minimum required for proper reporting/control via the MS29xx SNMP solution, and are packaged as part of the v3.00 OneClick Update bundle:

Component	MSH8900	MSH8910	MSP800x	MSP802x	MSP803x	MSP804x
<b>FRU Data</b>	FRU4301-02	FRU4302-00	FRU4003-08	FRU4005-08	FRU4007-02	FRU4008-02
<b>ShMC/BMC</b>	3.06	2.06	2.10	2.18	1.01	1.07
<b>FPGA</b>	2.00	1.08	1.02	2.12	0.12	1.12
<b>BIOS</b>	N/A	N/A	0.42	2.14	2.16	1.09
<b>Switch FW</b>	1.14	GA2.01	N/A	N/A	N/A	N/A

### 2.1 Node FRU Updates

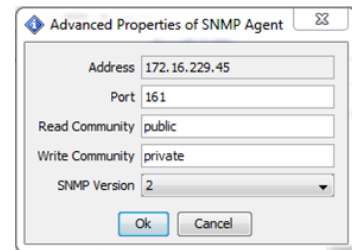
While board firmware (ShMC/BMC/FPGA/BIOS) can be updated using OneClick Update bundle, a separate FRU update may be required for nodes to add Read/Write support for the MS29xxServerType OID. The minimum FRU versions that include this support are specified above.

## 3 Accessing the MS29xx Platform with SNMP Set/Get/Walk

SNMP Set/Get/Walk can be accessed by pointing your SNMP browser at the Active ShMC's IP address.

For convenience, the Symcloud System Monitor provides the option to configure a 3<sup>rd</sup> 'Shared IP', which will automatically redirect HTTP, API and SNMP requests to the Active ShMC.

Use the settings on the right with the Active ShMC's IP (or the Shared IP) to access SNMP functionality.



## 4 SNMP-Trap

SNMP-Trap is not currently supported by the MS29xx Platform. Please contact your Kontron representative for more details or to inquire about a request for new development.

## 5 MS29xx SNMP MIBs package

This zip file contains 3 folders: one for the Platform (MS29xx\_ShMC\_MIBs) and one for each model of switch (MSH8900\_Switch\_MIBs and MSH8910\_Switch\_MIBs).

### 5.1 MSH8900 Switch (Vitesse/Microsemi) MIB

MIBs for monitoring/control of the switch on the HubNode model via SNMP are provided by Vitesse/Microsemi, the switch manufacturer. The MSH8900\_Switch\_MIBs folder contains MIBs to interact with the Vitesse/Microsemi switch on MSH8900 HubNodes.

### 5.2 MSH8910 Switch (Broadcom) MIB

MIBs for monitoring/control of the switch on the HubNode model via SNMP are provided by Broadcom, the switch manufacturer. The MSH8910\_Switch\_MIBs folder contains MIBs to interact with the Broadcom switch on MSH8910 HubNodes.

### 5.3 Platform MIB files

The MS29xx\_ShMC\_MIBs folder includes the 2 MIB-files detailed below. A number of standard MIBs, which may already be included in your browser, are also supported.

Additional details on each MIB (possible get/set values, etc.) are contained in the text of the MIB files.

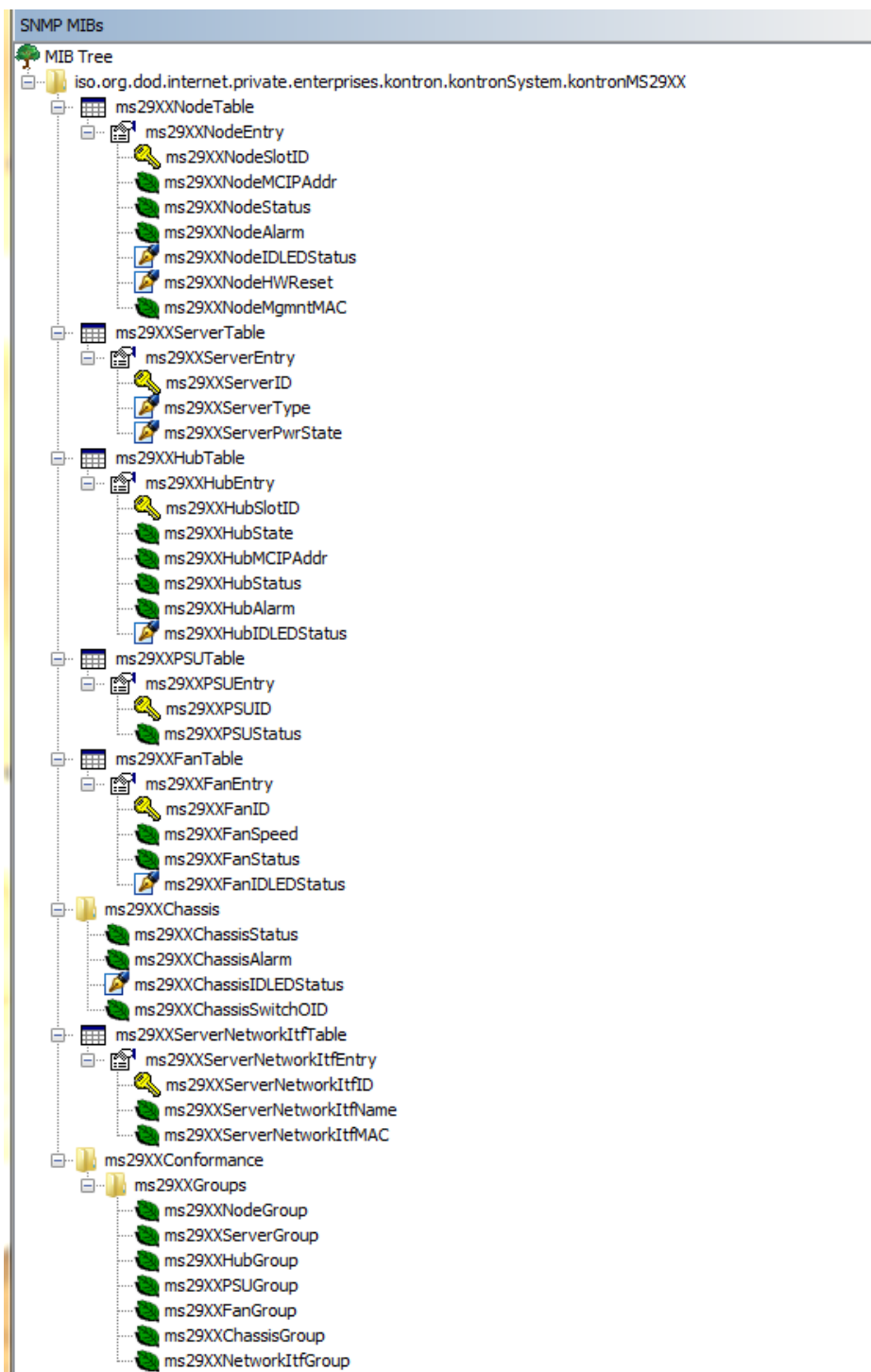
## 5.3.1 Load "KONTRON-ROOT-MIB.txt" in MIB browser

<b>Module Identity:</b>
kontron
<b>Organization:</b>
kontron Inc.
<b>Last Updated:</b>
2015-11-17
<b>Contact Info:</b>
email:support@kontron.com
<b>Description:</b>
The root MIB module for Kontron products
<b>Import from SNMPv2-SMI :</b>
MODULE-IDENTITY enterprises

## 5.3.2 Load "MS29XX-MIB.txt" in MIB Browser :

<b>Import from KONTRON-ROOT-MIB :</b>
kontronSystem
<b>Import from SNMPv2-SMI :</b>
MODULE-IDENTITY enterprises OBJECT-TYPE Integer32 IpAddress
<b>Import from SNMPv2-TC :</b>
PhysAddress TEXTUAL-CONVENTION DisplayString
<b>Import from SNMPv2-CONF :</b>
OBJECT-GROUP

## 5.3.3 MS29XX MIB tree:



## 6 SNMP details and supported RFCs

### 6.1 MS29xx Shelf Manager (Kontron ShMC) SNMP specification:

- Support SNMPv2c
- Support following RFC:
  - RFC3418 (SNMPv2):
    - MODULE-IDENTITY
    - NOTIFICATION-TYPE
    - OBJECT-TYPE
    - Counter32
    - mib-2
    - snmpModules
    - TimeTicks
  - RFC 1213:
    - System up time
    - System description
    - System Object ID
    - System Contact
    - System Location
    - System Name

### 6.2 MSH8900 Switch (Vitesse/Microsemi) SNMP Specification - supported RFCs:

### 6.3 MSH8910 Switch (Broadcom) SNMP Specification - supported RFCs:

- RFC 1155
- RFC 1157
- RFC 1212
- RFC 1901
- RFC 1908
- RFC 2271
- RFC 2576
- RFC 2578
- RFC 2579
- RFC 2580
- RFC 3410
- RFC 3411
- RFC 3412
- RFC 3413
- RFC 3414
- RFC 3415
- RFC 3416 – SNMP V2c
- RFC 3417
- RFC 3418 – MIB and SNMP

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