

Reference Manual

Snell Router SNMP

Reference Manual

Contents

1. About this Manual	5
1.1 Contact Details	5
1.2 Copyright and Disclaimer	5
2. SNMP Terminology	7
3. SNMP General Description	9
3.1 MIBs Required	9
3.2 Configuration	9
3.2.1 <Enabled>	9
3.2.2 <Contact>	9
3.2.3 <Location>	9
3.2.4 <SysName>	9
3.2.5 <EnableSnellTraps>	9
3.2.6 <DisableInitialNotify>	10
3.2.7 <CommunityTrapName>	10
3.2.8 <TrapManagers>	10
3.2.9 <CommunityGetNames>	10
3.2.10 <CommunitySetNames>	10
3.2.11 Disabling Specific Traps	11
4. Parameters Available Through SNMP	13
4.1 Router Controller SNMP Parameters:	13
4.2 Matrix and Level SNMP Parameters:	14
4.3 Monitor SNMP Parameters:	17
4.4 SNMP Mode Parameters:	17
4.5 Comms Port SNMP Parameters:	21
4.6 Router Controller SNMP Parameters:	22
4.7 Alarm SNMP Parameters - Sirius 800 only:	24
4.8 Input/Output Port SNMP Parameters:	26
4.9 Module Configuration SNMP Parameters:	30
4.10 PSU and Fan SNMP Status Parameters - Sirius 800 only:	32
4.11 Video Redundancy Matrix Configuration SNMP Parameters - S800 only:	33
4.12 Main Video Crosspoint Matrix Parameters - Sirius 800 only:	34
4.13 Expansion Video Crosspoint Matrix Parameters - Sirius 850 only:	36
4.14 Audio Crosspoint Matrix SNMP Parameters - Sirius 800 only:	37
4.15 Router Frame Parameters	41
4.16 Sirius 830 Fan SNMP Numbers & Controller Module IDs	42
4.16.1 Sirius 830 Front and Rear Fan Numbers	42
4.16.2 Sirius 830 Controller Module IDs	43
4.17 Sirius 840/850 Fan SNMP Numbers & Controller Module IDs	44
4.17.1 Sirius 840/850 Front and Rear Fan Numbers	44
4.17.2 Sirius 840 Controller Module IDs	45
4.17.3 Sirius 850 Controller Module IDs	46
4.18 Pyxis Controller Module IDs	47
4.19 Cygnus Controller Module IDs	48

1. About this Manual

This document details the SNMP parameters and MIBs (Management Information Base) required for Snell 2463, 2450 and Vega router control modules fitted in Sirius 800, Pyxis, Cygnus and Vega routers.

If you have any questions regarding the installation and setup of your product, please refer to the Customer Service contact details (see section 1.1).

1.1 Contact Details

Customer Support

For details of our Regional Customer Support Offices please visit the Snell web site and navigate to Support/Customer Support Contacts.

<http://www.snellgroup.com/support/customer-support/>

Customers with a support contract should call their personalized number, which can be found in their contract, and be ready to provide their contract number and details.

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2. SNMP Terminology

SNMP (Simple Network Management Protocol) is a protocol for allowing a device (the agent) to be remotely interrogated and controlled by remote applications (managers). Certain parameters are made accessible to the SNMP interface within the device by associating them with OID's (Object Identifiers). An OID consists of a sequence of numbers separated by dots. The accessible parameters are arranged in a hierarchical structure and the numbers in the OID provide a path to navigate the structure to home in on the specific parameter required.

SNMP is a complex subject and cannot be fully described within this document. The following is a summary of terms that may be encountered:

Manager and Agent

The terms 'client' and 'server' tend not to be used when discussing SNMP. Instead, the terms 'Manager' and 'Agent' are used. The agent is the device being managed, normally some sort of network infrastructure such as a router or hub. The manager is the software that is using SNMP to communicate with agents. The reason that the terms 'client' and 'server' are not appropriate is that these terms imply a central server supplying services to a number of clients. With SNMP normally one manager is used to manage a number of agents, although it is perfectly possible for an agent to be connected to more than one manager at once.

MIB

SNMP is a 'variable-based' protocol. An agent provides an interface comprising a number of variables, these can be scalar variables (a single value, for example 'SysLocation' a string describing the physical location of the device) or tables, which are lists of structured records, like database tables. Each device will want to provide data that is structured in accordance with the type of the device. The structure of the information provided via SNMP for a particular device is called a "Management Information Base" or MIB. In the case of SNMP the MIB is stored in a file – wherein the structure of the information is described using a language called ASN.1.

MIB2

Although a specific type of device will have a MIB that is particular to its function there are some variables that are deemed to be common to all devices managed by SNMP. These variables are stored in the 'MIB2' branch of the overall MIB tree. All SNMP managed devices are supposed to support these variables.

OID

Variables within a MIB are identified with an OID, or 'OBJECT_IDENTIFIER'. This is a long sequence of numbers, separated by dots. These numbers are globally unique and are managed by the IANA on behalf of the IETF. In practice the IANA does not approve every OID, but assigns an OID to an organization, which then becomes a 'branch' of the global namespace.

The Snell OID is 1.3.6.1.4.1.6419.1

The OID for the Sirius router is 1.3.6.1.4.1.6419.1.1.530

For example, the 2463 controller associates the OID 1.3.6.1.4.1.6419.1.1.530.100.3.2.2.1.1.1 with a flag identifying if there is a fault on PSU 1. The last number is the PSU number. In text form, the OID is interpreted as:

```
iso.org.dod.internet.private.enterprises.probelLtd.probel.  
probelProducts.localRouter.localRouterDevice.localRouterControl.  
commonControl.psuFaultsTable.psuFaultsEntry.psuFaultsFault.N
```

The first set of numbers are fixed and defined by ISO (International Standards Organization). 6419 (probelLtd) is a registered code which all Snell OIDs must use to prevent clashes with any OID defined by other companies. After 6419, the numbers are internally specified by

Snell. Some parameters (such as the previous example) have indices to identify an entry in an array. Sometimes, there are multiple indices and each one is appended to the basic OID to reference the exact entry required.

These OIDs are not easy to recognise and so MIB (Management Information Base) files are used by SNMP managers to generate the numbers from easily human readable descriptive labels. Also, when an asynchronous SNMP message (called a trap) is received by a manager, the descriptive label can be displayed instead of the OID.

In the example above, the MIB interprets PSU 1 fault as `psuFaultsFault.1`.

Snell has defined four MIB files to interpret OIDs for the 2463 router control module.

These are:

- `CentraController.mib`
- `LocalRouter.mib`
- `RouterDevice.mib`
- `Alarm.mib`.

These should be loaded into SNMP managers before attempting to use the controller's SNMP functionality.

PDU

PDU stands for 'Protocol Data Unit' and is a UDP packet conforming to SNMP format specifications sent between manager and agent. There are four basic PDU types: GET, GETNEXT, SET and TRAP. For example, to retrieve a variable from an agent, a manager sends a GET PDU then waits for a GET response from the agent. Similarly with GETNEXT (which retrieves the 'next' variable in the MIB from the one asked for) and SET.

TRAP

A manager initiates GET, GETNEXT and SET transactions, by sending an appropriate PDU. A TRAP, on the other hand, is sent unsolicited by the Agent. The manager does not have to respond to a TRAP. TRAPs are intended to allow an agent to inform a manager that something requires attention. It is then up to the manager to decide what action to take. A TRAP can include variable bindings, but it doesn't normally include a lot of data – normally it is sufficient to indicate to the manager what has changed, so the manager can then use a GET to retrieve the information.

3. SNMP General Description

3.1 MIBs Required

The MIBs required for use with the router control module are:

MIB Name	Describes
PROBEL-COMMON.mib	Root description of Snell products (required by all other MIBs)
CentraController.mib	Controller active, dual processor parameters
LocalRouter.mib	Local router device parameters
RouterDevice.mib	Router device parameters
Alarm.mib	Alarm set and record parameters

Table 1. MIBs Required For The Router Control Module

Note: The PROBEL-COMMON.mib does not need to be specifically loaded into any SNMP manager software by itself. It is referenced by the other MIBs and provides common definitions required by them.

3.2 Configuration

The first thing to do when using SNMP is to enable it in the configuration xml file Config.xml. The configuration file is described in the Workbench user manual.

The config.xml file must include the <SNMP> section and include the element <Enabled>true</Enabled> within that section. Other elements within the <SNMP> section are described in the following sections.

Most of these parameters can also be modified using the Workbench Generic Online Configuration Editor (not CommunityTrapName and disabling specific traps). When modified in this way, the parameters are written to config.xml and will only take effect after the controller has restarted.

3.2.1 <Enabled>

This element can contain either true or false in order to enable or disable SNMP functionality in the controller.

3.2.2 <Contact>

This element defines the text returned by the system SNMP parameter sysContact (1.3.6.1.2.1.1.4). It serves no other purpose.

3.2.3 <Location>

This element defines the text returned by the system SNMP parameter sysLocation (1.3.6.1.2.1.1.6). It serves no other purpose.

3.2.4 <SysName>

This element defines the text returned by the system SNMP parameter sysName (1.3.6.1.2.1.1.5). It serves no other purpose.

3.2.5 <EnableSnellTraps>

This element can contain either true or false in order to enable or disable SNMP traps from the controller. If traps are disabled then no asynchronous notifications will be sent from the controller.

3.2.6 <DisableInitialNotify>

This element can contain either true or false in order to allow or inhibit the initial set of SNMP traps from the controller. If set to true, when the controller boots up it will send out traps for every parameter configured to send traps. Depending on the size of the controller configuration database this could result in an extremely large amount of messages being sent in quick succession. Setting this element to false will inhibit those initial trap messages. Changes in any of those parameters after the controller has initialized will still be sent out as trap messages.

3.2.7 <CommunityTrapName>

This element defines the text which is sent with every trap as the community parameter. It serves no other purpose.

3.2.8 <TrapManagers>

This element contains sub-elements to define up to ten trap managers to receive trap messages from the controller. For example:

```
<TrapManagers>
  <Address>192.168.0.1</Address>
  <Address>192.168.0.2</Address>
</TrapManagers>
```

Each of those addresses should be running an SNMP trap manager to receive trap messages on IP port 162.

3.2.9 <CommunityGetNames>

This element must be present to allow an SNMP manager to read parameters from the controller. Up to two names can be specified. If the Community Get Name used by the SNMP manager does not match one of those specified in this element, then no parameters can be read. By default, SNMP managers use public as the Community Get Name. For example:

```
<CommunityGetNames>
  <Name>public</Name>
  <Name>getonly</Name>
</CommunityGetNames>
```

3.2.10 <CommunitySetNames>

This element must be present to allow an SNMP manager to write parameters to the controller. Up to two names can be specified. If the Community Set Name used by the SNMP manager does not match one of those specified in this element, then no parameters can be written. By default, SNMP managers use private as the Community Set Name. For example:

```
<CommunitySetNames>
  <Name>private</Name>
  <Name>setonly</Name>
</CommunitySetNames>
```

3.2.11 Disabling Specific Traps

The following elements can be included in the <SNMP> section of config.xml in order to disable specific traps from being sent by the controller. Note that not all traps can be disabled.

Config Element	Traps Disabled
DisableCrossPointTraps	Routed source
DisableProtectStateTraps	Dest protect state, Dest device number, Dest client name
DisableSrcAudioModifyTraps	Source audio modify
DisableDestAudioModifyTraps	Dest audio modify
DisableMonitorRowPortTraps	Monitor row port
DisableMonitorRowInputNotOutputTraps	Monitor row input/output
DisableControllerCommsTraps	Router comms, Comms from other processor, Comms to other processor
DisablePSUFaultTraps	Any PSU fault, Specific PSU faults
DisableFanFaultTraps	Any fan fault, Specific fan faults
DisableInputTypeTraps	Input port type
DisableInputPresenceTraps	Input port presence
DisableInputSignalTraps	Input port DV signal present, Audio signal present
DisableInputStandardTraps	Input port DV standard locked, DV standard detected
DisableInputSubstitutedTraps	Input port DV2 PPIO substituted
DisableInputFibreModuleTraps	Input port DV2 fibre module present
DisableOutputTypeTraps	Output port type
DisableOutputPresenceTraps	Output port presence
DisableOutputSignalTraps	Output port DV signal present, Audio signal present
DisableOutputStandardTraps	Output port DV standard locked, DV standard detected, DV2 standard valid, DV2 ref standard
DisableOutputFibreModuleTraps	Output port DV2 fibre module present
DisableModulePresentTraps	Module presence
DisableModuleTypeTraps	Module type
DisableModuleConfigTraps	Module config power status, MADI SAS input, MADI main status, MADI redundant status, MADI input select
DisableAlarmSetTraps	Alarm set active, Alarm set acknowledged
DisableAlarmRecordTraps	Alarm record active, Alarm record acknowledged, Alarm record latched
DisableRedntVideoXpntsTraps	Main/Redundant video crosspoints
DisableRedntAudioXpntsTraps	Main (Right)/Redundant (Left) audio crosspoints

Table 2. Disable Specific Traps

In order to disable traps, include something like the following in config.xml:

```
<SNMP>
  <Enable>true</Enable>
  <EnableSnellTraps>true</EnableSnellTraps>
  <DisableSrcAudioModifyTraps/>
  <DisableDestAudioModifyTraps/>
</SNMP>
```


4. Parameters Available Through SNMP

Note:

- Parameters are not valid for all router/controller combinations.
- The Active router control module must be interrogated for router SNMP parameters as the Idle controller will not report these values correctly.
- When a parameter state changes it will take a short period time before its new state is reported correctly. The actual period of time depends on how long the router control module takes to poll the entire router frame which varies depending on the number and configuration of modules fitted in the router.
 - A Sirius 830 frame can take up to 30 Seconds to report a parameter state correctly after a change in its state.
 - A dual frame Sirius 850 system can take up to 90 Seconds to report a parameter state correctly after a change in its state.

The following sections detail controller parameters that are available through SNMP.

4.1 Router Controller SNMP Parameters:

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Controller Active - Returns the active status of the router control module being addressed.	controllerActive	2.10.52	R	False (0) True (1)
Comms from other Processor - Returns the status of communications from the other router control module in the router frame (if fitted).	commsFromOtherProcessor	2.10.71.1 Trap OID: 2.10.71.101.1	R	False (0) True (1)
Comms to other Processor - Returns the status of communications to the other router control module in the router frame (if fitted).	commsToOtherProcessor	2.10.71.2 Trap OID: 2.10.71.101.2	R	False (0) True (1)
Force Reset of other Card Resets the other router control module in the router frame (if fitted).	forceResetOfOtherCard	2.10.71.3	W	False (0) True (1)
Force Reset of this Card - Resets the router control module being addressed.	forceResetOfThisCard	2.10.71.4	W	False (0) True (1)
Controller name - Returns the name set for the control module being addressed.	controllerName	2.10.74	R	String
Controller Type - Returns the controller type of the controller being addressed.	controllerType	2.10.91	R	2450 Controller (0) 2330 Controller (1) 2463 Controller (2) Vega Controller (3)

Table 3. Router Controller SNMP Parameters

4.2 Matrix and Level SNMP Parameters:

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Matrix Name (M) - Returns the name of the specified matrix.	matrixName.M	100.2.1.1.1.M where M = Matrix Number	R	String
Level Name (M, L) - Returns the name of the specified level.	levelName.M.L	100.2.101.2.2.1.M.L where M = Matrix Number where L = Level Number	R	String
Level Type (M, L) - Returns the level type of the specified level.	levelLevelType.M.L	100.2.101.2.2.2.M.L where M = Matrix Number where L = Level Number	R	Digital Video (0) Analogue Video (1) AES(2) Analogue Audio (3) Timecode (4) RS422 (5)
Source Association Alternative Name (M, S) - Returns the source association alternative name of the specified source.	sourceAssocAlternativeName.M.S	100.2.101.3.3.2.M.S where M = Matrix Number where S = Source Number	R	String
Destination Association Alternate Name (M, D) - Returns the destination association alternative name of the specified destination.	destAssocAlternativeName.M.D	100.2.101.4.4.2.M.D where M = Matrix Number where D = Destination Number	R	String
Source Alternative Name (M, L, S) - Returns the alternative name for the specified source.	sourceAlternativeName.M.L.S	100.2.101.101.3.3.2.M.L.S where M = Matrix Number where L = Level Number where S = Source Number	R	String

Table 4. Matrix and Level SNMP Parameters:

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Source Reference (M, L, S) - Returns the switching reference configured for the specified source.	sourceReference.M.L.S	100.2.101.101.3.3.3.M.L.S where M = Matrix Number where L = Level Number where S = Source Number	R	ref525i59 (156) ref625i50 (173) ref720p60 (176) ref720p59 (177) ref720p50 (178) ref1080i60 (203) ref1080i59 (204) ref1080i50 (205) refInput1 (241) refInput2 (242) refInput3 (243) refInput4 (244) refAuto (245)
Source Switch Field Not Frame (M, L, S) - Returns the switching configuration for the specified video source (switch on frame or switch on field).	sourceSwitchFieldNotFrame.M.L.S	100.2.101.101.3.3.4.M.L.S where M = Matrix Number where L = Level Number where S = Source Number	R	Frame (0) Field (1)
Source Audio Modify (M, L, S) - Pyxis only - Returns details on how the specified source audio is being modified.	sourceAudioModify.M.L.S	100.2.101.101.3.3.5.M.L.S where M = Matrix Number where L = Level Number where S = Source Number Trap OID: 100.101.1	R	Source Audio Normal (0) Source Audio Left Both (1) Source Audio Right Both (2) Source Audio Swap (3)
Destination Alternative Name (M, L, D) - Returns the alternative name for the specified destination.	destAlternativeName.M.L.D	100.2.101.101.4.4.2.M.L.D where M = Matrix Number where L = Level Number where D = Destination Number	R	String
Destination Audio Modify (M, L, S) - Pyxis only - Returns details on how the specified destination audio is being modified.	destAudioModify.M.L.D	100.2.101.101.4.4.3.M.L.D where M = Matrix Number where L = Level Number where D = Destination Number Trap OID: 100.101.2	R	Destination Audio Normal (0) Destination Audio Swap (3) Destination Audio Mono (5)

Table 4. Matrix and Level SNMP Parameters:

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Destination Routed Source (M, L, D) - Read or set the source that is routed to the specified destination	destRoutedSource.M.L.D	100.2.101.101.4.4.4.M.L.D where M = Matrix Number where L = Level Number where D = Destination Number Trap OID: 100.101.3	R + W	Integer
Destination Client Name (M, L, D) - Returns the name of the device that has protected the destination (if protected).	destClientName.M.L.D	100.2.101.101.4.4.5.M.L.D where M = Matrix Number where L = Level Number where D = Destination Number Trap OID: 100.101.4	R	String
Destination Device Number (M, L, D) - Returns the number of the device that has protected the destination (if protected).	destDeviceNumber.M.L.D	100.2.101.101.4.4.6.M.L.D where M = Matrix Number where L = Level Number where D = Destination Number Trap OID: 100.101.5	R	Integer
Destination Protect State (M, L, D) - Returns the protect state (including the device type generating the protect) of the specified destination.	destProtectState.M.L.D	100.2.101.101.4.4.7.M.L.D where M = Matrix Number where L = Level Number where D = Destination Number Trap OID: 100.101.6	R	pt Not Protected (0) pt ProBel Protected (1) pt ProBel Override Protected (2) pt Oem Protected (3)

Table 4. Matrix and Level SNMP Parameters:

4.3 Monitor SNMP Parameters:

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Monitor Row Port (M, L, R) - Read or set the status of the monitor output ports.	monitorRowPort.M.L.R	100.2.101.101.7.7.2.M.L.R Trap OID: 100.101.7.M.L.R where M = Matrix Number where L = Level Number where R = Row Number (1 to 4)	R + W	Integer
Monitor Row Port (M, L, R) - Returns the directionality of the signal that the specified monitor port is outputting.	monitorRowInputNotOutput.M.L.R	100.2.101.101.7.7.3.M.L.R Trap OID: 100.101.8.M.L.R where M = Matrix Number where L = Level Number where R = Row Number (1 to 4)	R	Output (0) Input (1)

Table 5. Monitor SNMP Parameters:

4.4 SNMP Mode Parameters:

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Level Features Audio Parameters Supported (M, L) - Indicates whether audio parameters are supported by the specified level. 1 = Audio parameters supported	levelFeaturesAudioParamsSupported.M.L	100.2.101.101.10.10.1.M.L where M = Matrix Number where L = Level Number	R	False (0) True (1)
Level Features Protects Supported (M, L) - Indicates whether protects are supported by the specified level. 1 = Protects supported	levelFeaturesProtectsSupported.M.L	100.2.101.101.10.10.2.M.L where M = Matrix Number where L = Level Number	R	False (0) True (1)
Level Features Connect on Go Supported (M, L) - Indicates whether Connect on Go is supported by the specified level. 1 = Connect on Go supported	levelFeaturesConnectOnGoSupported.M.L	100.2.101.101.10.10.3.M.L where M = Matrix Number where L = Level Number	R	False (0) True (1)
4 Character Name (M, L, S) - Returns the 4 character name configured for the specified source.	namesName4.M.L.S	100.2.101.101.101.1.1.1.M.L.S where M = Matrix Number where L = Level Number where S = Source Number	R	String

Table 6. SNMP Mode Parameters

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
8 Character Name (M, L, S) - Returns the 8 character name configured for the specified source.	namesName8.M.L.S	100.2.101.101.101.1.1.2.M.L.S where M = Matrix Number where L = Level Number where S = Source Number	R	String
12 Character Name (M, L, S) - Returns the 12 character name configured for the specified source.	namesName12.M.L.S	100.2.101.101.101.1.1.3.M.L.S where M = Matrix Number where L = Level Number where S = Source Number	R	String
16 Character Name (M, L, S) - Returns the 16 character name configured for the specified source.	namesName16.M.L.S	100.2.101.101.101.1.1.4.M.L.S where M = Matrix Number where L = Level Number where S = Source Number	R	String
4 Character Destination Names (M,L,D) - Returns the 4 character name configured for the specified destination.	destnamesName4.M.L.D	100.2.101.101.102.1.1.1.M.L.D where M = Matrix Number where L = Level Number where D = Destination Number	R	String
8 Character Destination Names (M,L,D) - Returns the 8 character name configured for the specified destination.	destnamesName8.M.L.D	100.2.101.101.102.1.1.2.M.L.D where M = Matrix Number where L = Level Number where D = Destination Number	R	String
12 Character Destination Names (M,L,D) - Returns the 12 character name configured for the specified destination.	destnamesName12.M.L.D	100.2.101.101.102.1.1.3.M.L.D where M = Matrix Number where L = Level Number where D = Destination Number	R	String
16 Character Destination Names (M,L,D) - Returns the 16 character name configured for the specified destination.	destnamesName16.M.L.D	100.2.101.101.102.1.1.4.M.L.D where M = Matrix Number where L = Level Number where D = Destination Number	R	String
4 Character Monitor Row Names (M,L,R) - Returns the 4 character name configured for the specified monitor row.	monitorRowsTablesbnodes.1.1.1.M.L.R	100.2.101.101.103.1.1.1.M.L.R where M = Matrix Number where L = Level Number where D = Monitor Row Number	R	String
8 Character Monitor Row Names (M,L,R) - Returns the 8 character name configured for the specified monitor row.	monitorRowsTablesbnodes.1.1.2.M.L.R	100.2.101.101.103.1.1.2.M.L.R where M = Matrix Number where L = Level Number where D = Monitor Row Number	R	String

Table 6. SNMP Mode Parameters

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
12 Character Monitor Row Names (M,L,R) - Returns the 12 character name configured for the specified monitor row.	monitorRowsTablesSubnodes.1.1.3.M.L.R	100.2.101.101.103.1.1.3.M.L.R where M = Matrix Number where L = Level Number where D = Monitor Row Number	R	String
16 Character Monitor Row Names (M,L,R) - Returns the 16 character name configured for the specified monitor row.	monitorRowsTablesSubnodes.1.1.4.M.L.R	100.2.101.101.103.1.1.4.M.L.R where M = Matrix Number where L = Level Number where D = Monitor Row Number	R	String
4 Character Source Association Names (M,S) - Returns the 4 character source association name configured for the specified source.	sourceAssocsTablesSubnodes.1.1.1.M.S	100.2.101.102.1.1.1.M.S where M = Matrix Number where S = Source Number	R	String
8 Character Source Association Names (M,S) - Returns the 8 character source association name configured for the specified source.	sourceAssocsTablesSubnodes.1.1.2.M.S	100.2.101.102.1.1.2.M.S where M = Matrix Number where S = Source Number	R	String
12 Character Source Association Names (M,S) - Returns the 12 character source association name configured for the specified source.	sourceAssocsTablesSubnodes.1.1.3.M.S	100.2.101.102.1.1.3.M.S where M = Matrix Number where S = Source Number	R	String
16 Character Source Association Names (M,S) - Returns the 16 character source association name configured for the specified source.	sourceAssocsTablesSubnodes.1.1.4.M.S	100.2.101.102.1.1.4.M.S where M = Matrix Number where S = Source Number	R	String
Source assoc source Association number (M,S,L) - Returns the individual source at the specified level in the association. In multilevel systems this counts through the associated sources and allows access to all associations.	sourceAssocsTablesSubnodes.4.1.1.M.S.L	100.2.101.102.4.1.1.M.S.L where M = Matrix Number where S = Source Association Number where L = Level Source Configured On	R	Integer
4 Character Destination Association Names (M,D) - Returns the 4 character destination association name configured for the specified destination.	destAssocsTablesSubnodes.1.1.1.M.D	100.2.101.103.1.1.1.M.D where M = Matrix Number where D = Destination Number	R	String

Table 6. SNMP Mode Parameters

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
8 Character Destination Association Names (M,D) - Returns the 8 character destination association name configured for the specified destination.	destAssocsTablesSubnodes.1.1.2.M.D	100.2.101.103.1.1.2.M.D where M = Matrix Number where D = Destination Number	R	String
12 Character Destination Association Names (M,D) - Returns the 12 character destination association name configured for the specified destination.	destAssocsTablesSubnodes.1.1.3.M.D	100.2.101.103.1.1.3.M.D where M = Matrix Number where D = Destination Number	R	String
16 Character Destination Association Names (M,D) - Returns the 16 character destination association name configured for the specified destination.	destAssocsTablesSubnodes.1.1.4.M.D	100.2.101.103.1.1.4.M.D where M = Matrix Number where D = Destination Number	R	String
Destination Association Destination Number (M,D,L) - Returns the individual destination at the specified level in the association. In multilevel systems this counts through the destinations associated and allows access to all associations.	destAssocsTablesSubnodes.4.1.1.M.D.L	100.2.101.103.4.1.1.M.D.L where M = Matrix Number where D = Destination Association Number where L = Level Destination Configured On	R	Integer

Table 6. SNMP Mode Parameters

4.5 Comms Port SNMP Parameters:

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Comms Port Name (P) - Returns the name configured for the specified comms port.	serialName.P	100.2.102.1.1.7.1.P where P = Comms Port Number	R	String
Comms port type (P) - Returns the port type configured for the specified comms port.	serialPortType.P	100.2.102.1.1.7.2.P where P = Comms Port Number	R	ptUndefined(0), ptGeneralSwitcherIn(1) ptGeneralSwitcherOut(2) ptGeneralRemoteIn(3) ptGeneralRemoteOut(4) ptKramerOut(5) ptSimulatedOut(6) ptLocalControl(7) ptETLMatrix(8) ptLeitchHarrisPassThroughIn(9) ptGVGESControlIn(10) ptGVGESControlOut(11)
Comms port connected (P) - Returns the connected status of the specified comms port.	serialConnected.P	100.2.102.1.1.7.3.P where P = Comms Port Number Trap OID: 100.101.9	R	False (0) True (1)
Comms port max modules (P) - Returns the maximum number of modules configured for the specified comms port.	serialMaximumNumberOfModules.P	100.2.102.1.1.7.4.P where P = Comms Port entry Number (as listed in serial/IP port configuration, entries start from 1).	R	Integer

Table 7. Comms Port SNMP Parameters

4.6 Router Controller SNMP Parameters:

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Single controller name - Returns the name of the router control module if only one controller is fitted.	singleControllerName	100.2.102.1.102.1.1.41.1	R	String
Single controller IP address - Returns the IP Address of the router control module if only one controller is fitted.	singleControllerIPAddress	100.2.102.1.102.1.1.41.2	R	IP Address
Single controller IP port - Returns the IP Port of the router control module if only one controller is fitted.	singleControllerPort	100.2.102.1.102.1.1.41.3	R	Integer
Single controller connected state - Returns the connected status of the router control module if only one controller is fitted.	singleControllerConnectionState	100.2.102.1.102.1.1.41.4 Trap OID: 100.101.10	R	Closed (0) Disconnected (1) Negotiating (2) Negotiation Failed (3) Connected (4)
Single controller active - Returns the active status of the router control module if only one controller is fitted. 1 = Router control module Active	singleControllerActive	100.2.102.1.102.1.1.41.5	R	False (0) True (1)
Note: By default Dual Controller 1 is located in the left controller slot when viewing the router from the front. This can be changed when configuring the router if required.				
Dual controller 1 name - Returns the name of router control module 1 if two controllers are fitted.	controller1Name	100.2.102.1.102.1.101.1.1.1	R	String
Dual controller 1 IP address - Returns the IP Address of router control module 1 if two controllers are fitted.	controller1IPAddress	100.2.102.1.102.1.101.1.1.2	R	IP Address
Dual controller 1 IP port - Returns the IP Port of router control module 1 if two controllers are fitted.	controller1Port	100.2.102.1.102.1.101.1.1.3	R	Integer
Dual controller 1 connected state - Returns the connected status of router control module 1 if two controllers are fitted.	controller1ConnectionState	100.2.102.1.102.1.101.1.1.4 Trap OID: 100.101.11	R	Closed (0) Disconnected (1) Negotiating (2) Negotiation Failed (3) Connected (4)

Table 8. Router Controller SNMP Parameters:

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Dual controller 1 active - Returns the active status of router control module 1 if two controllers are fitted.	controller1Active	100.2.102.1.102.1.101.1.1.5	R	False (0) True (1)
Note: By default Dual Controller 2 is located in the right controller slot when viewing the router from the front. This can be changed when configuring the router if required.				
Dual controller 2 name - Returns the name of router control module 2 if two controllers are fitted.	controller2Name	100.2.102.1.102.1.101.2.1.1	R	String
Dual controller 2 IP address - Returns the IP Address of router control module 2 if two controllers are fitted.	controller2IPAddress	100.2.102.1.102.1.101.2.1.2	R	IP Address
Dual controller 2 IP port - Returns the IP Port of router control module 2 if two controllers are fitted.	controller2Port	100.2.102.1.102.1.101.2.1.3	R	Integer
Dual controller 2 connected state - Returns the connected status of router control module 2 if two controllers are fitted.	controller2ConnectionState	100.2.102.1.102.1.101.2.1.4 Trap OID: 100.101.12	R	Closed (0) Disconnected (1) Negotiating (2) Negotiation Failed (3) Connected (4)
Dual controller 2 active - Returns the active status of router control module 2 if two controllers are fitted.	controller2Active	100.2.102.1.102.1.101.2.1.5	R	False (0) True (1)

Table 8. Router Controller SNMP Parameters:

4.7 Alarm SNMP Parameters - Sirius 800 only:

The Alarm SNMP parameters are only available if the Alarm device has been added to the controller. The Alarm device is not included in the default controller configuration but can be added if required.

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Alarm set name (S) - Returns the name of the specified alarm.	alarmSetName.S	102.6.1.1.2.S where S = Alarm Set Number	R	String
Alarm set active (S) - Returns the active status of the specified alarm. 1 = Alarm set active	alarmSetActive.S	102.6.1.1.3.S Trap OID: 102.101.1.S where S = Alarm Set Number	R	False (0) True (1)
Alarm set acknowledged (S) - Returns the acknowledged status of the specified alarm. 1 = Alarm set acknowledged	alarmSetAcknowledged.S	102.6.1.1.4.S Trap OID: 102.101.2.S where S = Alarm Set Number	R	False (0) True (1)
Alarm record name (S,R) - Returns the alarm record name of the specified alarm record.	alarmRecordName.S.R	102.6.101.1.1.1.S.R where S = Alarm Set Number and R = Alarm Record Number	R	String
Alarm record timestamp (S,R) - Returns the alarm record timestamp of the specified alarm record.	alarmRecordTimestamp.S.R	102.6.101.1.1.2.S.R where S = Alarm Set Number and R = Alarm Record Number	R	String
Alarm record active (S,R) - Read or set the alarm record active status of the specified alarm record. 1 = Alarm record active	alarmRecordActive.S.R	102.6.101.1.1.3.S.R Trap OID: 102.101.3.S.R where S = Alarm Set Number and R = Alarm Record Number	R + W	False (0) True (1)
Alarm record device (S,R) - Read or set the alarm record device of the specified alarm record.	alarmRecordDevice.S.R	102.6.101.1.1.4.S.R where S = Alarm Set Number and R = Alarm Record Number	R + W	String
Alarm record message (S,R) - Returns the alarm message of the specified alarm record.	alarmRecordMessage.S.R	102.6.101.1.1.5.S.R where S = Alarm Set Number and R = Alarm Record Number	R	String

Table 9. Alarm SNMP Parameters - Sirius 800 only

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Alarm record acknowledged (S,R) - Returns the acknowledged status of the specified alarm record. 1 = Alarm record acknowledged	alarmRecordAcknowledged.S.R	102.6.101.1.1.6.S.R where S = Alarm Set Number and R = Alarm Record Number Trap OID: 102.101.4	R	False (0) True (1)
Alarm record acknowledge timestamp (S,R) - Returns the timestamp for the acknowledgment of the specified alarm record.	alarmRecordAckTimestamp.S.R	102.6.101.1.1.7.S.R where S = Alarm Set Number and R = Alarm Record Number	R	String
Alarm record latched (S,R) - Read or set the specified alarm record latch status. 1 = Alarm record latched	alarmRecordLatched.S.R	102.6.101.1.1.8.S.R where S = Alarm Set Number and R = Alarm Record Number Trap OID: 102.101.5	R + W	False (0) True (1)
Alarm record latch timestamp (S,R) - Returns the timestamp for the specified alarm record latch.	alarmRecordLatchTimestamp.S.R	102.6.101.1.1.9.S.R where S = Alarm Set Number and R = Alarm Record Number	R	String

Table 9. Alarm SNMP Parameters - Sirius 800 only

4.8 Input/Output Port SNMP Parameters:

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Input port type (P) - Returns the configured port type for the specified input port.	inputPortsType.P	530.100.2.1.1.7.P Trap OID: 530.100.2.101.12.P where P = Port Number	R	ptUnknown (0) ptDigitalVideo (272) ptAnalogueVideo (304) ptDigitalAudio (336) ptAnalogueAudio (338) ptTimeCode (400) ptRS422 (402) ptFibre (368), ptDigitalVideoVariant2 (528) ptDigitalAudioOcto (340)
Input port presence (P) - Returns the configuration and presence status for the specified input port.	inputPortsPresence.P	530.100.2.1.1.8.P Trap OID: 530.100.2.101.13.P where P = Port Number	R	ppOKConfiguredPresent (0) ppErrorConfiguredNotPresent (1) ppErrorConfiguredDifferent (2) ppOKNotConfiguredNotPresent (3) ppErrorNotConfiguredPresent (4)
Input port DV signal present (P) - Returns the signal presence status for the specified input port. 1 = Video signal present	inputPortsDVSignalPresent.P	530.100.2.1.1.22.P Trap OID: 530.100.2.101.1.P where P = Port Number	R	False (0) True (1)
Input port DV standard locked (P) - Returns the signal lock status for the specified input port. 1 = Video signal locked	inputPortsDVStandardLocked.P	530.100.2.1.1.23.P Trap OID: 530.100.2.101.2.P where P = Port Number	R	False (0) True (1)

Table 10. Input/Output Port SNMP Parameters

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Input port DV standard detected (P) - Returns the detected video signal standard for the specified input port.	inputPortsDVStandardDetected.P	530.100.2.1.1.24.P Trap OID: 530.100.2.101.3.P where P = Port Number	R	vs_None (128) vs_GenericSD (130) vs_GenericHD (132) vs_Generic3G (134) vs_DVB_ASI (138) vs_525i59 (156) vs_625i50 (173) vs_720p60 (176) vs_720p59 (177) vs_720p50 (178) vs_720p30 (179) vs_720p29 (180) vs_720p25 (181) vs_720p24 (182) vs_720p23 (183) vs_1080p60 (192) vs_1080p59 (193) vs_1080p50 (194) vs_1080p30 (195) vs_1080p29 (196) vs_1080p25 (197) vs_1080p24 (198) vs_1080p23 (199) vs_1080i60 (203) vs_1080i59 (204) vs_1080i50 (205) vs_1080sf24 (206) vs_1080sf23 (207) vs_1080p50a (210) vs_1080p50a (213) vs_1080i50a (218) vs_1080p60d (219) vs_1080p59d (220) vs_1080p50d (221)
Input port audio signal present (P) - Sirius 800 only - Returns the audio presence status for the specified input port. 1 = Audio signal present	inputPortsAudioSignalPresent.P	530.100.2.1.1.62.P Trap OID: 530.100.2.101.18.P where P = Port Number		R

Table 10. Input/Output Port SNMP Parameters

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Output port type (P) - Returns the configured port type for the specified output port.	outputPortsType.P	530.100.2.2.1.7.P Trap OID: 530.100.2.101.14.P where P = Port Number	R	ptUnknown (0) ptDigitalVideo (288) ptAnalogueVideo (320) ptDigitalAudio (352) ptAnalogueAudio (354) ptTimeCode (401) ptRS422 (402) ptFibre (384) ptDigitalVideoVariant2 (544) ptDigitalAudioOcto (356)
Output port presence (P) - Returns the configuration and presence status for the specified output port.	outputPortsPresence.P	530.100.2.2.1.8.P Trap OID: 530.100.2.101.15.P where P = Port Number	R	ppOKConfiguredPresent (0) ppErrorConfiguredNotPresent (1) ppErrorConfiguredDifferent (2) ppOKNotConfiguredNotPresent (3) ppErrorNotConfiguredPresent (4)
Output port DV signal present (P) - Returns the output signal presence status for the specified video output port. 1 = Video signal present	outputPortsDVSignalPresent.P	530.100.2.2.1.22.P Trap OID: 530.100.2.101.6.P where P = Port Number	R	False (0) True (1)
Output port DV standard locked (P) - Returns the signal lock status for the specified video output port. 1 = Video signal locked	outputPortsDVStandardLocked.P	530.100.2.2.1.23.P Trap OID: 530.100.2.101.7.P where P = Port Number	R	False (0) True (1)

Table 10. Input/Output Port SNMP Parameters

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Output port DV standard detected (P) - Returns the detected video signal standard for the specified video output port.	outputPortsDVStandardDetected.P	530.100.2.2.1.24.P Trap OID: 530.100.2.101.8.P where P = Port Number	R	vs_None (128) vs_GenericSD (130) vs_GenericHD (132) vs_Generic3G (134) vs_DVB_ASI (138) vs_525i59 (156) vs_625i50 (173) vs_720p60 (176) vs_720p59 (177) vs_720p50 (178) vs_720p30 (179) vs_720p29 (180) vs_720p25 (181) vs_720p24 (182) vs_720p23 (183) vs_1080p60 (192) vs_1080p59 (193) vs_1080p50 (194) vs_1080p30 (195) vs_1080p29 (196) vs_1080p25 (197) vs_1080p24 (198) vs_1080p23 (199) vs_1080i60 (203) vs_1080i59 (204) vs_1080i50 (205) vs_1080sf24 (206) vs_1080sf23 (207) vs_1080p50a (210) vs_1080p50a (213) vs_1080i50a (218) vs_1080p60d (219) vs_1080p59d (220) vs_1080p50d (221)
Output port audio signal present (P) - Sirius 800 only - Returns the audio presence status for the specified output port. 1 = Audio signal present	outputPortsAudioSignalPresent.P	530.100.2.2.1.62.P Trap OID: 530.100.2.101.19.P where P = Port Number		R

Table 10. Input/Output Port SNMP Parameters

4.9 Module Configuration SNMP Parameters:

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Module ID numbers for each router type are listed in the following sections of this document. Sirius 830 - see section 4.16.2 for module ID numbers Sirius 840 - see section 4.17.2 for module ID numbers Sirius 850 - see section 4.17.3 for module ID numbers Pyxis - see section 4.18 for module ID numbers Cygnus - see section 4.19 for module ID numbers				
Module configs - status temp (M) - Returns the temperature, in °C, of the specified module.	moduleConfigsStatusTemperature.M	530.100.2.4.1.1.1.M where M = Module ID Number	R	Integer (in degrees Centigrade)
Module configs - power status (M) - Returns the power status of the specified module.	moduleConfigsPowerStatus.M	530.100.2.4.1.1.2.M Trap OID: 530.100.2.101.20.M where M = Module ID Number	R	powerStatus_NotAvailable (0) powerStatus_Fail (1) powerStatus_OK (2)
Module configs - MADI SAS input (M,m) - Sirius 800 only - Returns the MADI input (main or redundant) being used by the specified module and MADI Input channel.	moduleConfigsAudInp_MADI_SASInput.M.m	530.100.2.4.2.1.1.M.m Trap OID: 530.100.2.101.21.M.m where M = Module ID Number where m = MADI Input (1 to 12)	R	sas_Main (0) sas_Redundant (1)
Module configs - MADI main status (M,m) - Sirius 800 only - Returns the status of the specified module main MADI input.	moduleConfigsAudInp_MADI_MainMADISTatus.M.m	530.100.2.4.2.1.3.M.m Trap OID: 530.100.2.101.22.M.m where M = Module ID Number where m = MADI Input (1 to 12)	R	ms_OK (0) ms_Fail_Inactive (1)
Module configs - MADI rednt status (M,m) - Sirius 800 only - Returns the status of the specified module redundant MADI input.	moduleConfigsAudInp_MADI_RedundantMADISTatus.M.m	530.100.2.4.2.1.4.M.m Trap OID: 530.100.2.101.23.M.m where M = Module ID Number where m = MADI Input (1 to 12)	R	ms_OK (0) ms_Fail_Inactive (1)
Module configs - MADI input select (M,m) - Sirius 800 only - Read or set the MADI input (main or redundant) used by the specified module MADI input.	moduleConfigsAudInp_MADI_InputSelect.M.m	530.100.2.4.2.1.11.M.m Trap OID: 530.100.2.101.24.M.m where M = Module ID Number where m = MADI Input (1 to 12)	R + W	mis_AutoInputSelection (0) mis_EnableOverride (1) mis_Main (2) mis_Redundant (3)

Table 11. Module Configuration SNMP Parameters

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Module ids - module type (M) - Returns the module type for the specified module ID as configured on the controller.	moduleIDsType.M	530.100.2.5.1.12.M Trap OID: 530.100.2.101.16.M where M = Module ID Number		module_Unknown (0) module_DigitalVideoInput (272) module_DigitalVideoOutput (288) module_DigitalVideo12PortIO (296) module_AnalogueVideoInput (304) module_AnalogueVideoOutput (320) module_DigitalAudioInput (336), module_DigitalAudioOutput (352), module_FibreInput (368) module_FibreOutput (384) module_TimeCode (400) module_RS422 (402) module_VideoCrosspoint (416) module_AudioCrosspoint (418) module_DigitalVideoInputXpnt Output (432) module_AnalogueVideoInputXpnt Output (433) module_DigitalAudioInputXpnt Output (434) module_AnalogueAudioInputXpnt Output (435) module_RS422InputCrosspoint Output (440) module_Monitor(464) module_PowerSupply (466) module_FanAlarm (468) module_Control (448) module_ControlExpansion (449) module_DigitalVideoInputVariant2 (528) module_DigitalVideoOutputVariant2 (544) module_VideoCrosspointVariant2 (672)
Module ids - presence (M) - Returns the configuration and presence status for the specified module ID as configured on the controller.	moduleIDsPresence.M	530.100.2.5.1.13.M Trap OID: 530.100.2.101.17.M where M = Module ID Number	R	mpOKConfiguredPresent (0) mpErrorConfiguredNotPresent (1) mpErrorConfiguredDifferent (2) mpOKNotConfiguredNotPresent (3) mpErrorNotConfiguredPresent (4)

Table 11. Module Configuration SNMP Parameters

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Router type - Returns the router type.	routerType	530.100.3.1	R	rtUnknownRouter(0) rtCygnusRouter(1) rtPyxisRouter(2) rtSirius800Router(3) rtVegaRouter(4)

Table 11. Module Configuration SNMP Parameters

4.10 PSU and Fan SNMP Status Parameters - Sirius 800 only:

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message				
Any PSU fault - Returns the fault status of all of the PSUs in power supply shelves connected to the router PSU Status connectors. Reports a fault if any one of the PSUs is faulty. 0 = PSUs okay 1 = Fault present on one or more PSU	psuFault	530.100.3.2.1 Trap OID: 530.100.3.101.1	R	False (0) True (1)				
PSU fault (N) - Returns the fault status of the specified PSU. Only PSUs fitted in power supply shelves connected to a router PSU Status connector are reported on. 0 = PSU okay 1 = PSU fault present NULL (No value returned) = PSU not applicable for router type PSU A Status connector Power Supply Shelf Front View:	psuFaultsFault.N	530.100.3.2.2.1.1.N Trap OID: 530.100.3.101.2.N where N = PSU Number (1 to 8)	R	False (0) True (1)				
<table border="1" style="margin-left: 40px;"> <tr> <td>PSU N = 1</td> <td>PSU N = 2</td> <td>PSU N = 3</td> <td>PSU N = 4</td> </tr> </table>					PSU N = 1	PSU N = 2	PSU N = 3	PSU N = 4
PSU N = 1	PSU N = 2	PSU N = 3	PSU N = 4					
PSU B Status connector Power Supply Shelf Front View: <table border="1" style="margin-left: 40px;"> <tr> <td>PSU N = 5</td> <td>PSU N = 6</td> <td>PSU N = 7</td> <td>PSU N = 8</td> </tr> </table>					PSU N = 5	PSU N = 6	PSU N = 7	PSU N = 8
PSU N = 5	PSU N = 6	PSU N = 7	PSU N = 8					

Table 12. PSU and Fan SNMP Status Parameters - Sirius 800 only

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Any fan fault - Returns the fault status of all of the fans in the router (not Door PC fan). Reports a fault if any one of the fans is faulty. 0 = Fans okay 1 = Fault present on one or more fan	fanFault	530.100.3.2.3 Trap OID: 530.100.3.101.3	R	False (0) True (1)
Fan fault (N) - Returns the fault status of the specified fan. 0 = Fan okay 1 = Fan fault present NULL (No value returned) = Fan not applicable for router type Sirius 830 - see section 4.16.1 for fan numbers (N) Sirius 840/850 - see section 4.17.1 for fan numbers (N)	fanFaultsFault.N	530.100.3.2.4.1.1.N Trap OID: 530.100.3.101.4.N where N = Fan Number	R	False (0) True (1)

Table 12. PSU and Fan SNMP Status Parameters - Sirius 800 only

4.11 Video Redundancy Matrix Configuration SNMP Parameters - S800 only:

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Redn't xpnts - enable - Disable or enable video redundant crosspoint module usage. 0 = Redundant video crosspoint module operation disabled. 1 = Redundant video crosspoint module operation enabled.	redundantXpntControlEnable	530.100.3.3.3.3.1	R + W	False (0) True (1)
Redn't xpnts - action on fail - Read or set the action the router controller takes on video crosspoint failure.	redundantXpntControlActionOnFail	530.100.3.3.3.3.2	R + W	aofNoAction (0) aofMoveFailedRoute (1) aofMoveAllRoutes (2)

Table 13. Video Redundancy Matrix Configuration SNMP Parameters - Sirius 800 only

4.12 Main Video Crosspoint Matrix Parameters - Sirius 800 only:

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Redn't xpnts - main available - Returns the availability of redundancy for the main video crosspoint matrix. 0 = Not configured for redundancy. 1 = Configured for redundancy.	redundantXpntMainAvailable	530.100.3.3.3.3.3.1	R	False (0) True (1)
Redn't xpnts - main fail found - Returns the fail status of the main video crosspoint matrix. 0 = A failure has not occurred in the main video crosspoint matrix 1 = A failure has occurred in the main video crosspoint matrix. This may be a failure that has now cleared.	redundantXpntMainFailFound	530.100.3.3.3.3.3.2 Trap OID: 530.100.3.102.1	R	False (0) True (1)
Redn't xpnts - main failed xpnt card - Sirius 840/850 - Returns the first failed crosspoint module in the main video crosspoint matrix. 0 = No failed modules in the main video crosspoint matrix.	redundantXpntMainFailedXpntCard	530.100.3.3.3.3.3.3 Trap OID: 530.100.3.102.2	R	fxcXpntCardNone (0) fxcXpntCardOddToOdd_1 (1) fxcXpntCardEvenToOdd_2 (2) fxcXpntCardRedundant_R (3) fxcXpntCardOddToEven_3 (4) fxcXpntCardEvenToEven_4 (5)
Redn't xpnts - main failed 830 x card - Sirius 830 - Returns the failed crosspoint module in the video crosspoint matrix. 0 = No failed modules in the crosspoint matrix.	redundantXpntMainFailed830XpntCard	530.100.3.3.3.3.3.4 Trap OID: 530.100.3.102.3		fxcXpntCardNone830 (0) fxcXpntCardRedundant830 (1), fxcXpntCardMain830 (2)
Redn't xpnts - main failed destination - Returns the first failed route destination in the main video crosspoint matrix.	redundantXpntMainFailedDestination	530.100.3.3.3.3.3.5 Trap OID: 530.100.3.102.4	R	Integer
Redn't xpnts - main failed source - Returns the first failed route source in the main video crosspoint matrix.	redundantXpntMainFailedSource	530.100.3.3.3.3.3.6 Trap OID: 530.100.3.102.5	R	Integer
Redn't xpnts - main fault present - Returns the main video crosspoint matrix fault status. 0 = The crosspoint matrix is currently working correctly. 1 = There is currently a fault present in the crosspoint matrix.	redundantXpntMainFaultPresent	530.100.3.3.3.3.3.7 Trap OID: 530.100.3.102.6	R	False (0) True (1)

Table 14. Main Video Crosspoint Matrix Parameters - Sirius 800 only

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Redn't xpnts - main free failed xpnt - Set to 1 to move all of the routes from the failed video crosspoint module in the main video crosspoint matrix to the redundant video crosspoint module.	redundantXpntMainFreeFailedXpnt	530.100.3.3.3.3.8 Trap OID: 530.100.3.102.7	R + W	False (0) True (1)
Redn't xpnts - main fault fixed - Set to 1 when the failed video crosspoint module in the main video crosspoint matrix has been replaced with a working module. This will move the routes from the redundant crosspoint module back to the replacement video crosspoint module.	redundantXpntMainFaultFixed	530.100.3.3.3.3.9	R + W	False (0) True (1)
Redn't xpnts - main tot. routes main - Returns the total number of routes passing through the main video crosspoint matrix crosspoint module(s).	redundantXpntMainTotalRoutesMain	530.100.3.3.3.3.11 Trap OID: 530.100.3.102.9	R	Integer
Redn't xpnts - main tot. routes redn't - Returns the total number of routes passing through the main video crosspoint matrix redundant crosspoint module.	redundantXpntMainTotalRoutesRedundant	530.100.3.3.3.3.12 Trap OID: 530.100.3.102.10	R	Integer

Table 14. Main Video Crosspoint Matrix Parameters - Sirius 800 only

4.13 Expansion Video Crosspoint Matrix Parameters - Sirius 850 only:

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
<p>Redn't xpnts - exp available - Returns the availability of redundancy for the expansion video crosspoint matrix.</p> <p>0 = Not configured for redundancy. 1 = Configured for redundancy.</p>	redundantXpntExpAvailable	530.100.3.3.3.3.4.1	R	False (0) True (1)
<p>Redn't xpnts - exp fail found - Returns the fail status of the expansion video crosspoint matrix.</p> <p>0 = A failure has not occurred in the expansion video crosspoint matrix 1 = A failure has occurred in the expansion video crosspoint matrix. This may be a failure that has now cleared.</p>	redundantXpntExpFailFound	530.100.3.3.3.3.4.2 Trap OID: 530.100.3.102.21	R	False (0) True (1)
<p>Redn't xpnts - exp failed xpnt card - Returns the first failed crosspoint module in the expansion video crosspoint matrix.</p> <p>0 = No failed modules in the crosspoint matrix.</p>	redundantXpntExpFailedXpntCard	530.100.3.3.3.3.4.3 Trap OID: 530.100.3.102.22	R	fxcXpntCardNone (0) fxcXpntCardOddToOdd_1 (1) fxcXpntCardEvenToOdd_2 (2) fxcXpntCardRedundant_R (3) fxcXpntCardOddToEven_3 (4) fxcXpntCardEvenToEven_4 (5)
<p>Redn't xpnts - exp failed destination - Returns the first failed route destination in the expansion video crosspoint matrix.</p>	redundantXpntExpFailedDestination	530.100.3.3.3.3.4.5 Trap OID: 530.100.3.102.24	R	Integer
<p>Redn't xpnts - exp failed source - Returns the first failed route source in the expansion video crosspoint matrix.</p>	redundantXpntExpFailedSource	530.100.3.3.3.3.4.6 Trap OID: 530.100.3.102.25	R	Integer
<p>Redn't xpnts - exp fault present - Returns the expansion video crosspoint matrix fault status.</p> <p>0 = The crosspoint matrix is currently working correctly. 1 = There is currently a fault present in the crosspoint matrix.</p>	redundantXpntExpFaultPresent	530.100.3.3.3.3.4.7 Trap OID: 530.100.3.102.26	R	False (0) True (1)

Table 15. Expansion Video Crosspoint Matrix Parameters - Sirius 850 only

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Redn't xpnts - exp free failed xpnt - Set to 1 to move all of the routes from the failed video crosspoint module in the expansion video crosspoint matrix to the redundant video crosspoint module.	redundantXpntExpFreeFailedXpnt	530.100.3.3.3.3.4.8 Trap OID: 530.100.3.102.27	R + W	False (0) True (1)
Redn't xpnts - exp fault fixed - Set to 1 when the failed video crosspoint module in the expansion video crosspoint matrix has been replaced with a working module. This will move the routes from the redundant crosspoint module back to the replacement video crosspoint module.	redundantXpntExpFaultFixed	530.100.3.3.3.3.4.9	R + W	False (0) True (1)
Redn't xpnts - exp tot. routes main - Returns the total number of routes passing through the expansion video crosspoint matrix crosspoint module(s).	redundantXpntExpTotalRoutesMain	530.100.3.3.3.3.4.11 Trap OID: 530.100.3.102.29	R	Integer
Redn't xpnts - exp tot. routes redn't - Returns the total number of routes passing through the expansion video crosspoint matrix redundant crosspoint module.	redundantXpntExpTotalRoutesRedundant	530.100.3.3.3.3.4.12 Trap OID: 530.100.3.102.30	R	Integer

Table 15. Expansion Video Crosspoint Matrix Parameters - Sirius 850 only

4.14 Audio Crosspoint Matrix SNMP Parameters - Sirius 800 only:

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Audio xpnts - redundancy available - Returns the availability of redundancy for the audio crosspoint matrix. 0 = Not configured for redundancy. 1 = Configured for redundancy.	redundantAudXpntRedundancyAvailable	530.100.3.3.3.13.3	R	False (0) True (1)
Audio xpnts right state - total input syncs ok - Returns the total number of successful input syncs for the audio crosspoint module mounted in the right slot of the router.	redundantAudXpntRightTotalInputSyncsOk	530.100.3.3.3.13.4.1 Trap OID: 530.100.3.103.1	R	Integer

Table 16. Audio Crosspoint Matrix SNMP Parameters - Sirius 800 only

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Audio xpnts right state - total input sync faults - Returns the total number of failed input syncs for the audio crosspoint module mounted in the right slot of the router. 0 = No failed input syncs (good)	redundantAudXpntRightTotalInputSyncFaults	530.100.3.3.3.13.4.2 Trap OID: 530.100.3.103.2	R	Integer
Audio xpnts right state - total input syncs in use - Returns the total number of input syncs in use on the input modules from the audio crosspoint module mounted in the right slot of the router.	redundantAudXpntRightTotalInputSyncsInUse	530.100.3.3.3.13.4.3 Trap OID: 530.100.3.103.3	R	Integer
Audio xpnts right state - total input streams ok - Returns the total number of input streams without faults on the audio crosspoint module mounted in the right slot of the router.	redundantAudXpntRightTotalInputStreamsOk	530.100.3.3.3.13.4.4 Trap OID: 530.100.3.103.4	R	Integer
Audio xpnts right state - total input stream faults - Returns the total number of input stream faults for the audio crosspoint module mounted in the right slot of the router. 0 = No failed input streams (good)	redundantAudXpntRightTotalInputStreamFaults	530.100.3.3.3.13.4.5 Trap OID: 530.100.3.103.5	R	Integer
Audio xpnts right state - total output streams ok - Returns the total number of output streams without faults on the audio crosspoint module mounted in the right slot of the router.	redundantAudXpntRightTotalOutputStreamsOk	530.100.3.3.3.13.4.6 Trap OID: 530.100.3.103.6	R	Integer
Audio xpnts right state - total output stream faults - Returns the total number of output stream faults for the audio crosspoint module mounted in the right slot of the router. 0 = No failed output streams (good)	redundantAudXpntRightTotalOutputStreamFaults	530.100.3.3.3.13.4.7 Trap OID: 530.100.3.103.7	R	Integer
Audio xpnts right state - total output streams in use - Returns the total number of output streams in use on the output modules from the audio crosspoint module mounted in the right slot of the router.	redundantAudXpntRightTotalOutputStreamsInUse	530.100.3.3.3.13.4.8 Trap OID: 530.100.3.103.8	R	Integer

Table 16. Audio Crosspoint Matrix SNMP Parameters - Sirius 800 only

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Audio xpnts right state - failed incoming stream - Returns the first failed incoming stream for the audio crosspoint module mounted in the right slot of the router.	redundantAudXpntRightFailedIncomingStream	530.100.3.3.3.13.4.9 Trap OID: 530.100.3.103.9	R	Integer
Audio xpnts right state - failed outgoing stream - Returns the first failed outgoing stream for the audio crosspoint module mounted in the right slot of the router.	redundantAudXpntRightFailedOutgoingStream	530.100.3.3.3.13.4.10 Trap OID: 530.100.3.103.10	R	Integer
Audio xpnts left state - total input syncs ok - Returns the total number of successful input syncs for the audio crosspoint module mounted in the left slot of the router.	redundantAudXpntLeftTotalInputSyncsOk	530.100.3.3.3.13.5.1 Trap OID: 530.100.3.103.11	R	Integer
Audio xpnts left state - total input sync faults - Returns the total number of failed input syncs for the audio crosspoint module mounted in the left slot of the router. 0 = No failed input syncs (good)	redundantAudXpntLeftTotalInputSyncFaults	530.100.3.3.3.13.5.2 Trap OID: 530.100.3.103.12	R	Integer
Audio xpnts left state - total input syncs in use - Returns the total number of input syncs in use on the audio crosspoint module mounted in the left slot of the router.	redundantAudXpntLeftTotalInputSyncsInUse	530.100.3.3.3.13.5.3 Trap OID: 530.100.3.103.13	R	Integer
Audio xpnts left state - total input streams ok - Returns the total number of input streams without faults on the audio crosspoint module mounted in the left slot of the router.	redundantAudXpntLeftTotalInputStreamsOk	530.100.3.3.3.13.5.4 Trap OID: 530.100.3.103.14	R	Integer
Audio xpnts left state - total input stream faults - Returns the total number of input stream faults for the audio crosspoint module mounted in the left slot of the router. 0 = No failed input streams (good)	redundantAudXpntLeftTotalInputStreamFaults	530.100.3.3.3.13.5.5 Trap OID: 530.100.3.103.15	R	Integer
Audio xpnts left state - total output streams ok - Returns the total number of output streams without faults on the audio crosspoint module mounted in the left slot of the router.	redundantAudXpntLeftTotalOutputStreamsOk	530.100.3.3.3.13.5.6 Trap OID: 530.100.3.103.16	R	Integer

Table 16. Audio Crosspoint Matrix SNMP Parameters - Sirius 800 only

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Audio xpnts left state - total output stream faults - Returns the total number of output stream faults for the audio crosspoint module mounted in the left slot of the router. 0 = No failed output streams (good)	redundantAudXpntLeftTotalOutputStreamF aults	530.100.3.3.3.13.5.7 Trap OID: 530.100.3.103.17	R	Integer
Audio xpnts left state - total output streams in use - Returns the total number of output streams in use on the audio crosspoint module mounted in the left slot of the router.	redundantAudXpntLeftTotalOutputStreamsI nUse	530.100.3.3.3.13.5.8 Trap OID: 530.100.3.103.18	R	Integer
Audio xpnts left state - failed incoming stream - Returns the first failed incoming stream for the audio crosspoint module mounted in the left slot of the router.	redundantAudXpntLeftFailedIncomingStrea m	530.100.3.3.3.13.5.9 Trap OID: 530.100.3.103.19	R	Integer
Audio xpnts left state - failed outgoing stream - Returns the first failed outgoing stream for the audio crosspoint module mounted in the left slot of the router.	redundantAudXpntLeftFailedOutgoingStrea m	530.100.3.3.3.13.5.10 Trap OID: 530.100.3.103.20	R	Integer
Audio xpnts - fail found - Returns the fail status of the audio crosspoint matrix. 0 = A failure has not occurred in the audio crosspoint matrix 1 = A failure has occurred in the audio crosspoint matrix. This may be a failure that has now cleared.	redundantAudXpntFailFound	530.100.3.3.3.13.6 Trap OID: 530.100.3.103.21	R	False (0) True (1)
Audio xpnts - fault present - Returns the audio crosspoint matrix fault status. 0 = The crosspoint matrix is currently working correctly. 1 = There is currently a fault present in the crosspoint matrix.	redundantAudXpntFaultPresent	530.100.3.3.3.13.7 Trap OID: 530.100.3.103.22	R	False (0) True (1)
Audio xpnts - crosspoint status - Returns the failed crosspoint module in the audio crosspoint matrix. Write a value (1 or 2) to force a failure on an audio crosspoint module. 0 = No failed modules in the crosspoint matrix.	redundantAudXpntCrosspointStatus	530.100.3.3.3.13.8 Trap OID: 530.100.3.103.23	R + W	audioXpntCardNone (0) audioXpntCardLeft (1) audioXpntCardRight (2)

Table 16. Audio Crosspoint Matrix SNMP Parameters - Sirius 800 only

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Audio xpnts - clock master - Returns the audio crosspoint module that is supplying the audio system clock.	redundantAudXpntClockMaster	530.100.3.3.3.13.9 Trap OID: 530.100.3.103.24	R	audioStreamRight (0) audioStreamLeft (1)
Audio xpnts - free failed crosspoint - Set to 1 to move all of the routes from the failed audio crosspoint module to the other audio crosspoint module.	redundantAudXpntFreeFailedXpnt	530.100.3.3.3.13.10 Trap OID: 530.100.3.103.25	R + W	False (0) True (1)
Audio xpnts - fault fixed - Set to 1 when the failed audio crosspoint module has been replaced with a working module. This will move all of the routes back to the replacement audio crosspoint module.	redundantAudXpntFaultFixed	530.100.3.3.3.13.11	R + W	False (0) True (1)

Table 16. Audio Crosspoint Matrix SNMP Parameters - Sirius 800 only

4.15 Router Frame Parameters

MIB Description	MIB Label	SNMP OID (All OIDs start: 1.3.6.1.4.1.6419.1.1.)	Read/ Write	SNMP Message
Frame type - Returns the frame type. 2RU and 4RU = Vega variants	frameType	530.100.3.91	R	frameType_UNKNOWN (0) frameType_S850 (1) frameType_S840 (2) frameType_S830 (3) frameType_2RU (10) frameType_4RU (12)
Frame number - Returns the router frame number.	frameNumber	530.100.3.92	R	frameNumber_S850_Single (0) frameNumber_S850_First (1) frameNumber_S850_Second (2) frameNumber_S840 (3) frameNumber_S830 (14) frameNumber_Vega (15)

Table 17. Router Frame Parameters

4.16 Sirius 830 Fan SNMP Numbers & Controller Module IDs

4.16.1 Sirius 830 Front and Rear Fan Numbers

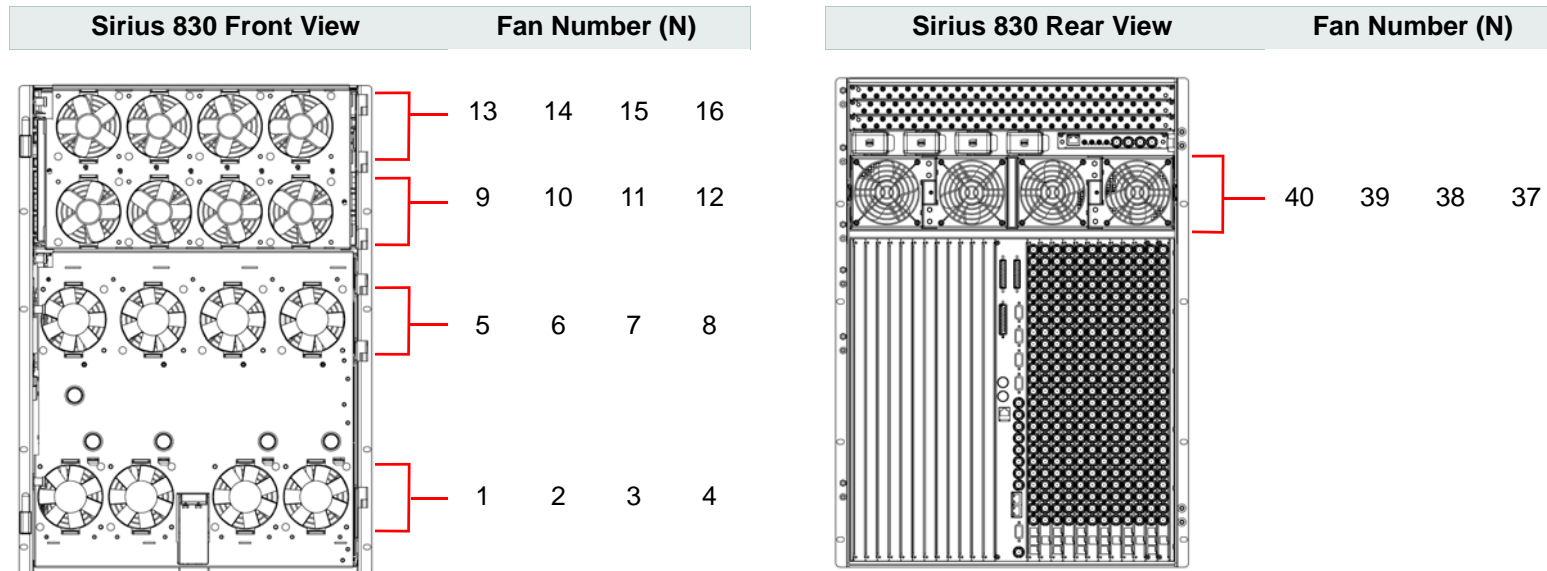


Table 18. Sirius 830 Front and Rear Fan Numbers

4.16.2 Sirius 830 Controller Module IDs

Module positions shown below are as viewed from the front of the router.

MV Output 3													248											
MV Output 2													247											
MV Output 1													246											
MV XPT 1													245											
XPT R ^[1]													194											
XPT M													193											
Audio XPT	233							234																
Fan Controllers							237	238																
Input and Outputs	1	97	2	98	3	99	4	100	5	101	6	102	7	103	8	104	9	105	10	106	11	107	12	108

Table 19. Sirius 830 Module ID Locations (viewed from the front)

^[1] Redundant Crosspoint Module

4.17 Sirius 840/850 Fan SNMP Numbers & Controller Module IDs

4.17.1 Sirius 840/850 Front and Rear Fan Numbers

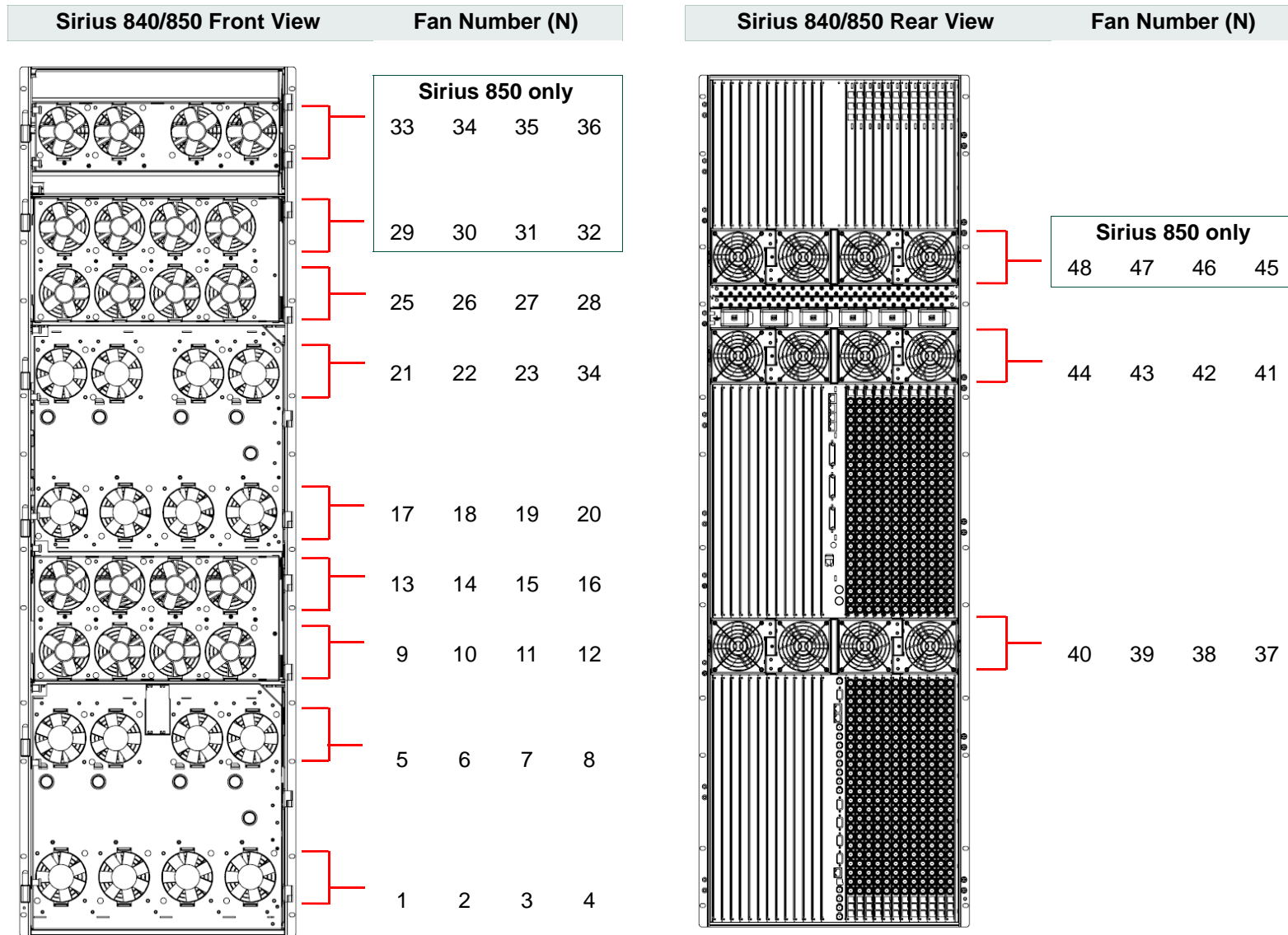


Table 20. Sirius 840/850 Front and Rear Fan Numbers

4.17.2 Sirius 840 Controller Module IDs

Module positions shown below are as viewed from the front of the router.

MV Output 3																									248		
MV Output 2																									247		
MV Output 1																									246		
MV XPT																									245		
Inputs and Fan Controllers	1	2	3	4	5	6	7	8	9	10	11	12	237	238	13	14	15	16	17	18	19	20	21	22	23	24	
Audio XPT	233												234														
XPT 1																									193		
XPT 2																									194		
XPT R ^[1]																									197		
XPT 3																									195		
XPT 4																									196		
Outputs and Monitor	97	98	99	100	101	102	103	104	105	106	107	108	257		109	110	111	112	113	114	115	116	117	118	119	120	

Table 21. Sirius 840 Module ID Locations (viewed from the front)

^[1] Redundant Crosspoint Module

4.17.3 Sirius 850 Controller Module IDs

Module positions shown below are as viewed from the front of the router.

Expansion Modules	145	146	147	148	149	150	151	152	153	154	155	156		157	158	159	160	161	162	163	164	165	166	167	168	
XPT 1													198													
XPT 2													199													
XPT R ^[1]													202													
XPT 3													200													
XPT 4													201													
MV Output 1													246													
MV Output 2													247													
MV XPT 1													245													
Inputs and Fan Controllers	1	2	3	4	5	6	7	8	9	10	11	12	237	238	13	14	15	16	17	18	19	20	21	22	23	24
Audio XPT	233													234												
XPT 1													193													
XPT 2													194													
XPT R ^[1]													197													
XPT 3													195													
XPT 4													196													
Outputs and Monitor	97	98	99	100	101	102	103	104	105	106	107	108	257		109	110	111	112	113	114	115	116	117	118	119	120

Table 22. Sirius 850 Module ID Locations (viewed from the front)

^[1] Redundant Crosspoint Module

4.18 Pyxis Controller Module IDs

Module positions shown below are as viewed from the front of the router.

Pyxis Frame 1	
Slot 1	10
Slot 2	11
Slot 3	12
Slot 4	13
Pyxis Frame 2 (Level 2)	
Slot 1	20
Slot 2	21
Slot 3	22
Slot 4	23
Pyxis Frame 3 (Level 3)	
Slot 1	30
Slot 2	31
Slot 3	32
Slot 4	33
Pyxis Frame 4 (Level 4)	
Slot 1	40
Slot 2	41
Slot 3	42
Slot 4	43

Pyxis Frame 5 (Level 5)	
Slot 1	50
Slot 2	51
Slot 3	52
Slot 4	53
Pyxis Frame 6 (Level 6)	
Slot 1	60
Slot 2	61
Slot 3	62
Slot 4	63
Pyxis Frame 7 (Level 7)	
Slot 1	70
Slot 2	71
Slot 3	72
Slot 4	73
Pyxis Frame 8 (Level 8)	
Slot 1	80
Slot 2	81
Slot 3	82
Slot 4	83

Table 23. Pyxis Module ID Locations (viewed from the front)

4.19 Cygnus Controller Module IDs

Module positions shown below are as viewed from the front of the router.

	Input																MON1	MON2	Input															
Top Input row	1	13	2	14	3	15	4	16	5	17	6	18	270	271	7	19	8	20	9	21	10	22	11	23	12	24								
XPT 1																	257																	
XPT 2																	258																	
	Output																CTRL1	CTRL2	Output															
Output Row	129	141	130	142	131	143	132	144	133	145	134	146	N/A	N/A	135	147	136	148	137	149	138	150	139	151	140	152								
XPT 1																	259																	
XPT 2																	260																	
	Input																SPARE	MON3	Input															
Bottom Input Row	48	36	47	35	46	34	45	33	44	32	43	31	<none>	272	42	30	41	29	40	28	39	27	38	26	37	25								

Table 24. Cygnus Module ID Locations (viewed from the front)