
Subject: SNMP Support for RTS VDC?

Posted by [ryan.smith](#) on Wed, 07 Apr 2021 16:22:05 GMT

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I have a customer that wants remote configuration of a Device Master RTS VDC through our software interface. The spec sheet lists SNMP as being supported, but I can not find any information related to the SNMP operation of a DeviceMaster - with the exception of how to enable/disable SNMP. Is there any documentation available related to the SNMP capabilities? Is there a MIB file for the device?

Subject: Re: SNMP Support for RTS VDC?

Posted by [Kurt](#) on Wed, 07 Apr 2021 16:30:34 GMT

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Hi,

We only do minimal SNMP support.

Control uses an industry standard SNMP V2 MIB II. Hence we do not issue a custom MIB.

The Information below applies to our DeviceMaster RTS, Serial Hub, and Pro products.

Here is a little background information.

The Management Information Base (MIB) is a definition of a set of values that an SNMP "agent" monitors and the structures with which the agent reports those values to an SNMP "station" or "management station". The implementation of the MIB in the agent is integrated into the agent implementation. There is no "MIB file" on the agent side. We have implemented an SNMP Version 2 agent in the DeviceMaster RTS. It supports a minimal standard MIB commonly known as MIB II. MIB II defines a set of values for monitoring the Ethernet interface and the TCP/IP protocol stack. The definition of MIB II is RFC 1213 which can be obtained from:

<<http://www.cis.ohio-state.edu/cgi-bin/rfc/rfc1213.html>> .

Among the things MIB II does not include is monitoring of the serial ports. Our SNMP implementation does not do that.

MIB II and all other MIBs are defined using a formally defined notation called Abstract Syntax Notation One (ASN.1). The ASN.1 MIB definition is commonly used with an ASN.1 "MIB compiler" to extend the set of definitions known to a management station.

This may be what someone is calling the "MIB file". We do not have a MIB

II definition to supply, nor should anyone have any need to get one from us. MIB II is the least common denominator of MIBs. A management station that comes without MIB II implemented is difficult to imagine. If it exists, and they have one, they bought the wrong thing. Further, the complete ASN.1 definition of MIB II is in RFC 1213. That's where they should get it if they need it.

SNMP defines methods for providing enterprise unique monitoring capabilities. Many vendors provide so-called "Enterprise MIBs" implementing SNMP management of properties unique to their product. Part of providing an Enterprise MIB is providing the ASN.1 definition of that MIB so that customers can add it to their SNMP management station by the process described above. We have no Enterprise MIB.

Another possibility is that they are asking for the "RS232 MIB" defined in RFC 1659 "Definitions of Managed Objects for RS-232-like Hardware Devices using SMIv2". We have not implemented that MIB.

The only MIB we have implemented is universally implemented, there is nothing for us to add to it.

Additional Info

Technical Overview from the O/S perspective

https://files.comtrol.com/dev_mstr/rts/software/redboot/user_guide/ecos-2.0_redboot.pdf

(Starting at page 615)

Subject: Re: SNMP Support for RTS VDC?

Posted by [ryan.smith](#) on Wed, 07 Apr 2021 20:23:55 GMT

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Thank you for that detailed response. Is there any external interface that the RTS supports that will allow configuration and monitoring of the serial port interface? Or is that really only done through PortVision and the web interface?

Subject: Re: SNMP Support for RTS VDC?

Posted by [Kurt](#) on Thu, 08 Apr 2021 12:31:56 GMT

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Hi,

Yes, it is possible to monitor a serial port. The DeviceMasters only monitor 1 serial port at a time, however.

We can monitor via a telnet session in Putty or what other application you'd like.

Here is a link that will provide instructions:

[https:// files.comtrol.com/contribs/devicemaster/help_files/tracing/monitor_serial_data_in_devicemaster_using_putty_to_log_file.p df](https://files.comtrol.com/contribs/devicemaster/help_files/tracing/monitor_serial_data_in_devicemaster_using_putty_to_log_file.pdf)

Kurt

Subject: Re: SNMP Support for RTS VDC?
Posted by [Ed](#) on Mon, 12 Apr 2021 18:15:06 GMT
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Hello,

The RTS device is configured and monitored through PortVision or the website. Putty or Telnet can be used to monitor the output of each port.
