



CADANT-REMOTE-QUERY-MIB

File: [CADANT-REMOTE-QUERY-MIB.mib](#) (14506 bytes)

Imported modules

SNMPv2-SMI	SNMPv2-TC	INET-ADDRESS-MIB
SNMPv2-CONF	DOCS-IF-MIB	CADANT-PRODUCTS-MIB
CADANT-CMTS-MAC-MIB		

Imported symbols

MODULE-IDENTITY	OBJECT-TYPE	NOTIFICATION-TYPE
Integer32	IpAddress	Unsigned32
TruthValue	TimeStamp	DisplayString
MacAddress	InetAddressType	InetAddress
OBJECT-GROUP	MODULE-COMPLIANCE	TenthdBmV
TenthdB	cadCmRemoteQuery	cadIfCmtsCmStatusEntry

Defined Types

CadCmRemoteQueryStatusEntry			
SEQUENCE			
	cadCmRemoteQueryPollTime	Unsigned32	
	cadCmRemoteQueryDownChannelPower	TenthdBmV	
	cadCmRemoteQueryStatusTxPower	TenthdBmV	
	cadCmRemoteQueryUpChnlTxTimingOffset	Unsigned32	
	cadCmRemoteQuerySigQSignalNoise	TenthdB	
	cadCmRemoteQuerySigQMicroreflections	Integer32	
	cadCmRemoteQuerySysDescr	DisplayString	

Defined Values

cadCmRemoteQueryMib	1.3.6.1.4.1.4998.1.1.55.1		
This MIB module provides the management of the Cadant C4 Cable Modem Termination Systems (CMTS) Remote Query feature. This feature, implemented on a CMTS, facilitates SNMP polling of remote cable modems (CMs). This MIB includes the configuration and status objects of the CMTS CM Poller and remote CMs that polled by the CMTS CM Poller			
MODULE-IDENTITY			

cadCmRemoteQueryPoller	1.3.6.1.4.1.4998.1.1.55.1.1		
OBJECT IDENTIFIER			

<u>cadCmRemoteQueryPollerEnable</u>	1.3.6.1.4.1.4998.1.1.55.1.1.1		
An indication of whether the CMTS CM Poller is running. When the poller is enabled, it polls the remote CMs periodically specified in the cadCmRemoteQueryPollerInterval mib object. The operation can be expensive depending on how many CMs that the poller would be polling. It is suggested to have it disabled when not needed.			
Status: current	Access: read-write		
OBJECT-TYPE			
	<u>TruthValue</u>		

cadCmRemoteQueryPollerInterval		1.3.6.1.4.1.4998.1.1.55.1.1.2	
An interval between two polling cycles of the CMTS CM Poller. The poller will not start the next cycle until it finished polling for the last CM , even though the time has expired. If the cadCmRemoteQueryPollerInterval is too small with a large number of CMs, the poller would tie up the CPU and resources and possibly degrade the system's performance.			
Status: current		Access: read-write	
OBJECT-TYPE			
	Unsigned32	30..86400	

cadCmRemoteQueryPollerStartTime		1.3.6.1.4.1.4998.1.1.55.1.1.3	
The value of sysUpTime in seconds when the last polling cycle started. cadCmRemoteQueryPollerStartTime is set to 0 when the CMTS is first restarted and doesn't get reset after the poller is disabled.			
Status: current		Access: read-only	
OBJECT-TYPE			
	Unsigned32		

<u>cadCmRemoteQueryPollerStopTime</u>	1.3.6.1.4.1.4998.1.1.55.1.1.4		
The value of sysUpTime in seconds when the last polling cycle finished. cadCmRemoteQueryPollerStopTime is set to 0 when the CMTS is first restarted and doesn't get reset after the poller is disabled.			
Status: current	Access: read-only		
OBJECT-TYPE			
	<u>Unsigned32</u>		

cadCmRemoteQueryPollerCommunity		1.3.6.1.4.1.4998.1.1.55.1.1.5	
The read community string is used for polling the CMs. Any change in the cadCmRemoteQueryPollerCommunity may not be reflected if the poller has already been enabled.			
Status: current		Access: read-write	
OBJECT-TYPE			
	OCTET STRING	Size(0..32)	

<u>cadCmRemoteQueryMacAddress</u>		1.3.6.1.4.1.4998.1.1.55.1.1.6	
The object is used to trigger an immediate poll of a specific CM. This object always read back as a value of 0. The value of sysUpTime should be read and saved before writing this object. Then, the value of cadCmRemoteQueryPollTime can be read and compared to the saved sysUpTime to determine when the immediate poll of retmoe query data has been completed.			
Status: current		Access: read-write	
OBJECT-TYPE			
	<u>MacAddress</u>		

<u>cadCmRemoteQuerySourceIpAddrType</u>	1.3.6.1.4.1.4998.1.1.55.1.1.7
The type of internet address of cadCmRemoteQuerySourceIpAddr.	
Status: current	Access: read-only
OBJECT-TYPE	
	<u>InetAddressType</u>

<u>cadCmRemoteQuerySourceIpAddr</u>	1.3.6.1.4.1.4998.1.1.55.1.1.8
The source IP address of the SNMP remote queries to the CMs. This value is changed from the Poller when the ifIndex of the cadSysSourceInterfaceRemoteQuery in the CADANT-CMTS-SYSTEM-MIB is changed due to using the cli command .. configure cable modem remote-query source-interface ..	
Status: current	Access: read-only
OBJECT-TYPE	
	<u>InetAddress</u>

<u>cadCmRemoteQueryStatusTable</u>	1.3.6.1.4.1.4998.1.1.55.1.2
This table contains the status of the cable modems that are polled by the CMTS CM Poller. The information will be overwritten when a new polling cycle starts. Depending on how many CMs that the poller is polling, polling this table constantly can be quite expensive; Excessive polling could degrade performance.	
Status: current	Access: not-accessible
OBJECT-TYPE	
	SEQUENCE OF
	<u>CadCmRemoteQueryStatusEntry</u>

<u>cadCmRemoteQueryStatusEntry</u>	1.3.6.1.4.1.4998.1.1.55.1.2.1
A list of the cable modem's attributes that are polled by a CMTS.	
Status: current	Access: not-accessible
OBJECT-TYPE	
	<u>CadCmRemoteQueryStatusEntry</u>

<u>cadCmRemoteQueryPollTime</u>	1.3.6.1.4.1.4998.1.1.55.1.2.1.1
The value of sysUpTime when this CM entry was polled. If this value is larger than the cadCmRemoteQueryPollerStopTime, it indicates that the status has already been overwritten by a new polling cycle. To avoid this happening, the NMS can increase the cadCmRemoteQueryPollInterval so that the cadCmRemoteQueryPollTime would fall in between the cadCmRemoteQueryPollerStartTime and the cadCmRemoteQueryPollerStopTime.	
Status: current	Access: read-only
OBJECT-TYPE	
	<u>Unsigned32</u>

<u>cadCmRemoteQueryDownChannelPower</u>	1.3.6.1.4.1.4998.1.1.55.1.2.1.2
The CM's received power level. This object may be set to zero if the CM does not support power level measurement. If the CM downstream interface is down, this object either returns the most current value or the value of 0.	
Status: current	Access: read-only
OBJECT-TYPE	
	<u>TenthdBmV</u>

<u>cadCmRemoteQueryStatusTxPower</u>	1.3.6.1.4.1.4998.1.1.55.1.2.1.3
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The operational transmit power for the CM upstream channel.			
Status: current	Access: read-only		
OBJECT-TYPE			
	TenthdBmV		

cadCmRemoteQueryUpChnlTxTimingOffset		1.3.6.1.4.1.4998.1.1.55.1.2.1.4	
A measure of the current round trip time. Used for timing of CM upstream transmissions to ensure synchronized arrivals at the CMTS.			
Status: current		Access: read-only	
OBJECT-TYPE			
	Unsigned32		

cadCmRemoteQuerySigQSignalNoise		1.3.6.1.4.1.4998.1.1.55.1.2.1.5	
Signal/Noise ratio as perceived for the CM downstream channel.			
Status: current		Access: read-only	
OBJECT-TYPE			
	TenthdB		

cadCmRemoteQuerySigQMicroreflections		1.3.6.1.4.1.4998.1.1.55.1.2.1.6	
Total microreflections including in-channel response as perceived on the CM downstream, measured in dBc below the signal level. This object is not assumed to return an absolutely accurate value, but is meant to give a rough indication of microreflections received on this interface. It is up to the implementor to provide information as accurate as possible.			
Status: current		Access: read-only	
OBJECT-TYPE			
	Integer32	0..255	

cadCmRemoteQuerySysDescr		1.3.6.1.4.1.4998.1.1.55.1.2.1.7	
A textual description of the entity.			
Status: current		Access: read-only	
OBJECT-TYPE			
	DisplayString	Size(0..255)	

cadCmRemoteQueryConformance	1.3.6.1.4.1.4998.1.1.55.1.3		
OBJECT IDENTIFIER			

cadCmRemoteQueryDocsRemoteQueryCompliances	1.3.6.1.4.1.4998.1.1.55.1.3.		
OBJECT IDENTIFIER			

cadCmRemoteQueryDocsRemoteQueryGroups	1.3.6.1.4.1.4998.1.1.55.1.3.2		
OBJECT IDENTIFIER			

cadCmRemoteQueryDocsRemoteQueryCompliance		1.3.6.1.4.1.4998.1.1.55.1.3.1	
The compliance statement for entities which implement the Remote Query MIB			
Status: current		Access: read-only	
MODULE-COMPLIANCE			

cadCmRemoteQueryPollerGroup	1.3.6.1.4.1.4998.1.1.55.1.3.2.1		
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Group of objects implemented in Cable Modem Termination Systems (CMTS) for configuring and monitoring the CMTS CM Poller.			
Status: current	Access: read-only		
OBJECT-GROUP			

cadCmRemoteQueryStatusGroup		1.3.6.1.4.1.4998.1.1.55.1.3.2.2	
Group of objects implemented in Cable Modem Termination Systems (CMTS) for monitoring cable modems via CMTS CM Poller.			
Status: current		Access: read-only	
OBJECT-GROUP			

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