SNMP OIDs for Spectracom SecureSyncs

OIDs (Object IDs) associated with the SecureSync SNMP functionality

There are actually three unique sets of SNMP OIDs/Object Numbers for the SecureSyncs. SecureSync run Net- SNMP software for its SNMP functionality. Net-SNMP has its own set of SNMP objects. A second set of objects is for the Spectracom-specific objects (such as the majority of the available SNMP traps are Spectracom-specific, for example). The Authorization trap is a Net-SNMP trap instead of a Spectracom-specific trap. SecureSync SNMP also supports the generic RFC-1213 MIB file, which also has its own OID numbers associated with it.

In summary:

- The SNMP object numbers of "**.1.3.6.1.4.1.18837.x**" are for Spectracom-specific objects.
- The SNMP object numbers of "**.1.3.6.1.4.1.8072.x**" are objects associated with Net-SNMP.
- The SNMP object numbers of "**.1.3.6.1.4.1.2.1.x**" are objects associated with RFC-1213.

Unit Identification/version info

Model Number	**.1.3.6.1.2.1.1.1.0**	sysDescr	
Serial Number	**.1.3.6.1.4.1.18837.3.2.2.1.16**	spectracom.specProducts.specSecureSyncMIB.specSecSyncObjs.ssSystemStatusObjs.ssSysStaSerial	**(Serial Number is available via SNMP in software versions 5.2.1 and above)**
Software version	**.1.3.6.1.4.1.18837.3.2.2.1.11**	spectracom.specProducts.specSecureSyncMIB.specSecSyncObjs.ssSystemStatusObjs.ssSysStaVersion	

Reboot

Reboot	**18837.3.2.2.5.1**	ssSysCtrlCommand to either Reboot or apply remote software updates	{ REboot (4) , normal state is "idle (1)" "(2)" and "(3)" are for performing software updated

Uptime/Input power

System Uptime	**.1.3.6.1.2.1.1.3.0**		
AC input power	**.1.3.6.1.4.1.18837.3.2.2.1.1**	spectracom.specProducts.specSecureSyncMIB.specSecSyncObjs.ssSystemStatusObjs.ssSysStaPowerAC	
DC input power	**.1.3.6.1.4.1.18837.3.2.2.1.2**	spectracom.specProducts.specSecureSyncMIB.specSecSyncObjs.ssSystemStatusObjs.ssSysStaPowerDC	{ ok (1) , in alarm (2) , none (3) }

Synchronization

Unit's Sync State	**.1.3.6.1.4.1.18837.3.2.2.1.5**	spectracom.specProducts.specSecureSyncMIB.specSecSyncObjs.ssSystemStatusObjs.ssSysStaSyncState	{ sync (1) , nosync (2) }
Selected Time Reference	**.1.3.6.1.4.1.18837.3.2.2.1.3**	spectracom.specProducts.specSecureSyncMIB.specSecSyncObjs.ssSystemStatusObjs.ssSysStaTimeReference	(null if none selected)
Selected 1PPS Reference	**.1.3.6.1.4.1.18837.3.2.2.1.4**	spectracom.specProducts.specSecureSyncMIB.specSecSyncObjs.ssSystemStatusObjs.ssSysSta1PPSReference	(null if none selected)
Holdover mode	**.1.3.6.1.4.1.18837.3.2.2.1.6**	spectracom.specProducts.specSecureSyncMIB.specSecSyncObjs.ssSystemStatusObjs.ssSysStaHoldoverState	{ inHoldover (1) , notInHoldover (2) }
TFOM	**.1.3.6.1.4.1.18837.3.2.2.1.7**	spectracom.specProducts.specSecureSyncMIB.specSecSyncObjs.ssSystemStatusObjs.ssSysStaTfom	(range of 1 to 15)
Estimated Frequency Error	**.1.3.6.1.4.1.18837.3.2.2.1.9**	spectracom.specProducts.specSecureSyncMIB.specSecSyncObjs.ssSystemStatusObjs.ssSysStaEstFreqError	
Estimated Phase Error	**.1.3.6.1.4.1.18837.3.2.2.1.8**	spectracom.specProducts.specSecureSyncMIB.specSecSyncObjs.ssSystemStatusObjs.ssSysStaEstPhaseError	

GPS Receiver info

Antenna Sense	**.1.3.6.1.4.1.18837.3.2.2.2.1.1.17**	specSecSyncObjs.ssGpsRefStatusObjs.ssGpsRefTable.ssGpsRefTableEntry.ssGpsRefAntennaState	{ ok (1) , short (2) , open (3) , unknown (4) }
# Satellites being tracked	**.1.3.6.1.4.1.18837.3.2.2.2.1.1.8**	specSecureSyncMIB.specSecSyncObjs.ssGpsRefStatusObjs.ssGpsRefTable.ssGpsRefTableEntry.ssGpsRefNumSats	(out of a possible max of 12 satellites)
GPS Time validity	**.1.3.6.1.4.1.18837.3.2.2.2.1.1.4**	specSecureSyncMIB.specSecSyncObjs.ssGpsRefStatusObjs.ssGpsRefTable.ssGpsRefTableEntry.ssGpsRefTimeValid	{ valid (1) , not valid (2) }
GPS 1PPS validity	**.1.3.6.1.4.1.18837.3.2.2.2.1.1.5**	specSecureSyncMIB.specSecSyncObjs.ssGpsRefStatusObjs.ssGpsRefTable.ssGpsRefTableEntry.ssGpsRef1ppsValid	{ valid (1) , not valid (2) }

System (kernel) Date / Time (in UTC timescale)

Date/Time	**.1.3.6.1.4.1.18837.3.2.2.1.15**	spectracom.specProducts.specSecureSyncMIB.specSecSyncObjs.ssSystemStatusObjs.ssSysStaDateTime	("YYYY DDD HH:MM:SS.NNNNNNNNN" where: YYYY = Year DDD = Day of Year HH = Hou

System Alarms

Major Alarm	**.1.3.6.1.4.1.18837.3.2.2.1.14**	spectracom.specProducts.specSecureSyncMIB.specSecSyncObjs.ssSystemStatusObjs.ssSysStaMajorAlarm	{ on (1) , off (2) }
Minor Alarm	**.1.3.6.1.4.1.18837.3.2.2.1.13**	spectracom.specProducts.specSecureSyncMIB.specSecSyncObjs.ssSystemStatusObjs.ssSysStaMinorAlarm	{ on (1) , off (2) }

NTP info

NTP Sync state	**.1.3.6.1.4.1.18837.3.3.2.1**	spectracom.specProducts.ntpSnmpObjs.ntpSystemStatusObjs.ntpSysStaCurrentMode	{ unknown (1) , notRunning (2) , notSynchonized (3) , synchronized (4) }
NTP Stratum	**.1.3.6.1.4.1.18837.3.3.2.2**	spectracom.specProducts.ntpSnmpObjs.ntpSystemStatusObjs.ntpSysStaStratum	(Range of Stratum is 1 to 16)

System MIBs (available with software versions 5.2.1 and above)

MEMORY:

Total Swap Size	**.1.3.6.1.4.1.2021.4.3.0**
Available Swap Space:	**.1.3.6.1.4.1.2021.4.4.0**
Total RAM in machine:	**.1.3.6.1.4.1.2021.4.5.0**
Total RAM used:	**.1.3.6.1.4.1.2021.4.6.0**
Total RAM Free:	**.1.3.6.1.4.1.2021.4.11.0**
Total RAM Shared:	**.1.3.6.1.4.1.2021.4.13.0**
Total RAM Buffered:	**.1.3.6.1.4.1.2021.4.14.0**
Total Cached Memory:	**.1.3.6.1.4.1.2021.4.15.0**

CPU: `

percentage of user CPU time:	**.1.3.6.1.4.1.2021.11.9.0**
raw user cpu time:	**.1.3.6.1.4.1.2021.11.50.0**
percentages of system CPU time:	**.1.3.6.1.4.1.2021.11.10.0**
raw system cpu time:	**.1.3.6.1.4.1.2021.11.52.0**
percentages of idle CPU time:	**.1.3.6.1.4.1.2021.11.11.0**
raw idle cpu time:	**.1.3.6.1.4.1.2021.11.53.0**
raw nice cpu time:	**.1.3.6.1.4.1.2021.11.51.0**

DISK USAGE:

Path where the disk is mounted:	**.1.3.6.1.4.1.2021.9.1.2.1**
Path of the device for the partition:	**.1.3.6.1.4.1.2021.9.1.3.1**
Total size of the disk/partition (kBytes):	**.1.3.6.1.4.1.2021.9.1.6.1**
Available space on the disk:	**.1.3.6.1.4.1.2021.9.1.7.1**
Used space on the disk:	**.1.3.6.1.4.1.2021.9.1.8.1**
Percentage of space used on disk:	**.1.3.6.1.4.1.2021.9.1.9.1**
Percentage of inodes used on disk:	**.1.3.6.1.4.1.2021.9.1.10.1**

Temperature MIBs (available with software versions 5.3.1 and above)

Oscillator temp (ssSysStaOscTemp)	**.1.3.6.1.4.1.18837.3.2.2.1.17**
Board temp (ssSysStaBrdTemp)	**.1.3.6.1.4.1.18837.3.2.2.1.18**
CPU temp (ssSysStaCPUTemp)	**.1.3.6.1.4.1.18837.3.2.2.1.19**