

EATON How to get OIDs list

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Requirements:

Software: a MIB browser is required. For this procedure I will use iReasoning MIB Browser.

Hardware: An UPS with a network card

Download the MIB

Go to <u>http://powerquality.eaton.fr/Support/Software-Drivers/Downloads/connectivity-firmware.asp</u> and download the Mib files for your card.

(in this case I am using the Network-MS card)



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Download - Firmware	Power Xpert Gateway I	JPS and Mini-	slot cards			Find a Reseller
	Eaton-OIDS					Register a Product
	Eaton-EMP-MIB Eaton PXG-MIB RFC-1628 Standard MIB v	1.00				Download Software & Drivers
	ConnectUPS-X, -BD and PowerMIB RFC <u>-1628 Standard MIB v</u>	-E cards				Become a Reseller
	Network Card-MS PowerMIB RFC-1628 Standard MIB v UPS Pulsar MIB Eaton-ATS2 MIB	1.00)			
	Power Apert Gate	way Mini-S	lot card			
	Firmware	Instru	ctions		Notes	
	pxms_2.3.7.zip (12.59MB	3) Upgrad Power	e Instructions Xpert Gateway Card USB	configuration file	Release Notes	
	Power Xpert Gate	way X-Slot	UPS card			

Firmware	Instructions	Notes
pxgx_ups_2.3.6.zip (12.15MB)	Upgrade Instructions Power Xpert Gateway Card USB configuration file	Release Notes

Network Card-MS

Network Card-MS (former NMC 66102/ConnectUPS-MS)

Firmware	Instructions	Notes
Multilingual - Version JI (1.96MB)	Network Management Card-MS User Manual (pdf) english / french	Release Notes Upgrade instructions



Load the MIB on Ireasoning MIB Browser

Open Ireasoning MIB Browser software and go to File and Load MIBs

🚳 iReasoning MIB Browser		
File Edit Operations Tools Bookmark	rks Help	
Ctrl+L Ad	dvanced OID: .1.3.6.1.2.1	✓ Operations: Get Next ✓ Go
UnLoad MIBs	Result Table	
MIB Modules	Name/OID	Value Type IP:Port
Open Graph Data		W
Open Session		
Corres Constinue		
Save Session		\mathcal{P}
Exit		
Name mib-2		
OID .1.3.6.1.2.1		
MIB SNMPv2-SMI		
Syntax		
Status		
DefVal		
Indexes		
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Descr		
iso ora dad internet mamt mih-2		



Select the MIBs files and click on Open

🕤 iReasoni	ing MIB Browser		
File Edit	Operations Tools Bookmarks Help		
Address:	😵 Open	Operations: Get Next	🔻 🌈 Go
SNMP MIBs	Look in: 🚺 Network Card-MS 🔹 🎲 📂 🖽 🗸		
iso.o	Documents r EATON-ATS2-MIB.TXT Documents r EATON-ATS2-MIB.TXT Dulsar_mib17_ae.mib XUPS-MIB.txt	Туре	IP:Port 😮
	Bureau		<u>~</u> #
	Mes documents		
Name OID MIB	Ordinateur		
Syntax Access Status DefVal Indexes	File name: Open Réseau Files of type: All Files		
Descr			
.iso.org.dod.	internet.mgmt.mib-2		



Get the OID list

Enter the IP address of the UPS network card

🚳 iReasonin	g MIB Browser				-				x
File Edit	Operations Tools	Bookmark: Help							
Address:		Advanced	OID: .1.3.6.1.2.1			Operations: 0	Get Next 👻	6 Go	,
SNMP MIBs			Result Table	1					
MIB Tree			N	ame/OID	N	alue	Type	TP:Port	
🗄 🕛 iso.org	.dod.internet					alac	Type	11. Orc	•
									×
									\wp
									2
Name n	nib-2								
OID .	1.3.6.1.2.1								
MIB S	NMPv2-SMI								
Access									
Status									
DefVal									
Indexes									
Descr									
.iso.org.dod.in	ternet.mgmt.mib-2								



Click on Advanced... and add the Read and Write Community password (public and private).

🕤 Advanced F	Properties of SNMP Agent
Addre	ss
Po	ort 161
Read Commun	ty ****** public
Write Commun	ty ******* private
SNMP Versi	on 1 🗸
	OK Cancel



Go to iso.org.dod.internet.mgnt.mib-2 and right click upsMIB. Then Get Subtree (on the right you will have the list of all the OIDs in the RFC 1628 standard MIB)

😺 iReasoning MIB Browser	
File Edit Operations Tools Bookmarks Help	
Address: Advanced OID: .1.3.6.1.2.1.33 Operations: Get Next	• 🕝 🕝
SNMP MIBs Result Table	
MIB Tree	TD-Dt
iso.org.dod.internet	
	X A
er → in → 2 er → is system	<u> </u>
B- La interfaces	
B b at	9
🖶 🛺 udp	
dot1dBridge	
🕮 🎍 host	
B- smpV2 Find in subtree	
B-B SNMPv1 TRAP	
Expand subtree	
Graph View Ctrl+R	
Get Next Ctrl+N	
Get Bulk Ctrl+B	
Get Subtree Ctrl+E	
Name upsMIB Walk Ctrl+W	
UID 1.1.3.6.1.2.1 MTB LUBCATE Add to Watches Ctrl+D	
Syntax Table View Ctrl+T	
Access	
Status	
Indexes	
Descr	



🕤 iReasonii	ng MIB Brows	er		No. to be 100 to	when the add in					X
File Edit	Operations	Tools	Bookmarks He	lp						
Address:	•		 Advanced 	OID: .1.3.6.1.2.1.33		•	Operations:	Get Next	• 🔿	Go
SNMP MIBs				Result Table						
MIB Tree	والمستحدة المراسم			Name/0	DID	Value		Type	IP:Port 🗸	
iso.or	g.dod.internet			upsIdentManufacturer.0		EATON		OctetString		1
	gmt Lath D			upsIdentModel.0		Evolution 650		OctetString	1	80
	miD-2			upsIdentUPSSoftwareVersion	1.0	INV: 620106		OctetString	1	ш
	interface	-		upsIdentAgentSoftwareVersio	on.0	Network Management Card V6.00	ננ	OctetString	1	B
1	interface	:S		upsIdentName.0		ID: AREM4802C , Msg: unknown		OctetString	1	
				upsIdentAttachedDevices.0				OctetString	1	
	icmp			upsBatteryStatus.0		batteryNormal (2)		Integer	1	~
				upsSecondsOnBattery.0		0		Integer	1	di d
				upsEstimatedMinutesRemainin	ng.0	87		Integer	1	
	ean			upsEstimatedChargeRemainin	ng.0	100		Integer		🖻 🗡
	transmiss	sion		upsBatteryVoltage.0		140		Integer		
	snmp			upsBatteryCurrent.0		0		Integer		
	dot1dBriv	dae		upsBatteryTemperature.0		0		Integer		
	host	uge		upsInputLineBads.0		1		Counter32		
				upsInputNumLines.0		1		Integer		
	rivate			upsInputFrequency.1		500		Integer	1	
	mmV2			upsInputVoltage.1		242		Integer		
	MPv1 TR APs			upsInputCurrent.1		0		Integer		
m	NULL TOP 3			upsInputTruePower.1		0		Integer]	
				upsOutputSource.0		normal (3)		Integer		
				upsOutputFrequency.0		500		Integer		
				upsOutputNumLines.0		1		Integer		
				upsOutputVoltage.1		242		Integer		
				upsOutputCurrent.1		0		Integer		
				upsOutputPower.1		0		Integer		
Name	upsMIB			upsOutputPercentLoad.1		0		Integer		
DID	.1.3.6.1.2.1.3	3		upsBypassFrequency.0		0		Integer		
MIB	UPS-MIB			upsBypassNumLines.0		0		Integer		
Syntax				upsAlarmsPresent.0		0		Gauge		
Access				upsTestResultsSummary.0		donePass (1)		Integer		
Status				upsTestResultsDetail.0				OctetString		
DefVal				upsTestStartTime.0		31 hours 24 minutes 5 seconds (11	1304574)	TimeTicks		
ndexes				upsTestElapsedTime.0		0		Integer		
				upsShutdownType.0		system (2)		Integer		
				upsShutdownAfterDelay.0		-1		Integer		
lescr				upsStartupAfterDelay.0		-1		Integer		
				upsRebootWithDuration.0		-1		Integer		
				upsAutoRestart.0		on (1)		Integer		
				upsConfigInputVoltage.0		230		Integer		
				upsContigInputFreq.0		500		Integer		
				upsConfigOutputVoltage.0		230		Integer		
				upsConfigOutputFreq.0		500		Integer		
				upsConfigOutputVA.0		650		Integer		
				upsConfigOutputPower.0		420		Integer		
				upsconfigLowBattTime.0		3		Integer		
				upsconfigAudibleStatus.0		enabled (2)		Integer		
				upsConfigLowVoltageTransfe	rPoint.U	100		Integer		
								annaga -		
.iso.org.dod.i	internet.mgmt.	mib-2.upsN	MIB							



Now go to private and right click enterprises, then Get Subtree (this will list the list of all OIDs in Eaton MIBs)

	Tools bookmand				[-	-
Address: •	 Advance 	ed 0	ID: .1.3.6.1.4.1	Operations:	Get Next	•	GO
IMP MIBs		Res	ult Table				
MIB Tree			Name/OID	Value	Туре	IP:Port V	
iso.org.dod.internet		upsIde	entManufacturer.0	EATON	OctetString		1'
mih-2		upsIde	entModel.0	Evolution 650	OctetString	Ι	1
system		upsIde	ntUPSSoftwareVersion.0	INV: 620106	OctetString		11
interface	s	upsIde	ntAgentSoftwareVersion.0	Network Management Card V6.00 JJ	OctetString	1	
🕀 🚺 at		upsIde	ntName.0	ID: AREM4802C , Msg: unknown	OctetString	1	1.1
🕀 🚺 ip		upsIde	ntAttachedDevices.0		OctetString	-	4
🕀 🚺 icmp		upsBa	(teryStatus.0	batteryNormal (2)	Integer	-	
🌐 🚹 tcp		upsSe	condsOnBattery.0	0	Integer	+	
🕀 퉲 udp		upsEs	ImatedMinutesRemaining.0	87	Integer	-	
🕀 🌗 egp		upses	ImatedChargeRemaining.U	140	Integer	+	
👻 🝓 transmis	sion	upsBa	tervCurrent 0	140	Integer	+	
🕀 퉲 snmp		upsBa	ttervTemperature 0	0	Integer		
🖶 퉲 dot1dBri	dge	upsba	ut ineBade 0	1	Counter 32	+	
🕀 🍌 host		upsIng	utNumlines 0	1	Toteger	+	
🚊 🗄 퉬 upsMIB		upsing	utErequency 1	500	Integer	+	
🖻 퉲 private		unsing	utVoltage.1	241	Integer	1	
enterprises	P. 12 11	oport	utCurrent, 1	0	Integer	1	
🕀 🤳 eaton	Find in subtree		utTruePower, 1	0	Integer	1	
🔄 💮 🕀 🍈 merlinGe	Export to CSV		putSource.0	normal (3)	Integer	1	
	Expand subtree		putFrequency.0	500	Integer	1	
H-W SNMPV1 TRAPS			putNumLines.0	1	Integer	1	
	Graph View	Ctrl+R	putVoltage.1	241	Integer	1	
	Get Next	Ctrl+N	putCurrent.1	0	Integer	1	
	Cat Dulls	Chill, D	putPower.1	0	Integer	1	
ame enterprises	GET DUIK	Ctri+b	putPercentLoad.1	0	Integer	1	
ID .1.3.6.1.4.1	Get Subtree	Ctrl+E	assFrequency.0	0	Integer	T	
IB SNMPv2-SMI	Walk	Ctrl+W	assNumLines.0	0	Integer		
/ntax	Add to Watches	Ctrl. D	msPresent.0	0	Gauge	1	
cess	Add to watches	Ctri+D	tResultsSummary.0	donePass (1)	Integer		
	Table View	Ctrl+T	tResultsDetail.0		OctetString	1	
atus	Table view		stStartTime.0	31 hours 26 minutes 56 seconds (11321645)	TimeTicks	1	
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stus fVal texes .scr		upsTe upsTe upsSh upsSh upsSt upsRe upsCo upsCo upsCo upsCo upsCo	stEapsedTime.0 utdownType.0 utdownAfterDelay.0 srtupAfterDelay.0 bootWithDuration.0 toRestart.0 nfigInputVoltage.0 nfigInputVoltage.0 nfigOutputVoltage.0 nfigOutputVoltage.0 nfigOutputVoltage.0 nfigOutputVoltage.0	0 System (2) -1 -1 -1 on (1) 230 500 230 500 650 420	Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer		
atus tfval dexes	Table View	upsTe upsTe upsSh upsSh upsSh upsSt upsCo upsCo upsCo upsCo upsCo	stEapsedTime.0 utdownType.0 utdownTterDelay.0 srtupAfterDelay.0 bootWithDuration.0 toRestart.0 nfigInputVoltage.0 nfigOutputFreq.0	0 0 system (2) -1 -1 -1 0n (1) 230 500 230 500 650 420 3	Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer		
atus ftYal dexes sor		upsite upsite upsite upssh upssh upsst upsco upsco upsco upsco upsco upsco upsco upsco upsco upsco	stEapsedTime.0 utdownType.0 utdownAfterDelay.0 srtupAfterDelay.0 bootWithDuration.0 toRestart.0 nfigInputVoltage.0 nfigInputVitage.0 nfigOutputFreq.0 nfigOutputFreq.0 nfigOutputPower.0 nfigOutputPower.0 nfigOutputPower.0 nfigAudibeStatus.0	0 0 system (2) -1 -1 -1 -1 230 500 230 500 650 420 3 enabled (2)	Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer Integer		
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Export the list

Once you have the list of all OIDs availables in your UPS, just click on Save the result table

e Edit Operations Tools Bookmarks Help			
ddress: ▼		Operations: Get Next	Go 😭
IP MIBs Result Table			
MIB Tree Name/OID	Value	Type IP:F	Port V
iso.org.dod.internet	no (2)	Integer	
mgmt upsmgBatteryReplacement.0	no (2)	Integer	
imib-2	no (2)	Integer	
system	00 (2)	Integer	
interfaces	00 (2)	Integer	
at	1	Integer	
ip minoutVoltage 1.0	2410	Integer	
imp	2410	Integ	
tcp	200	Integ	
udp	10 (2)	Integer	
egp	1 1	Integer	Save Save
transmission	1	Integer	
mgoutputPhaseIndex.1	1	Integer	
dot1dBridge mgoutputPhaseIndex.2	2	Integer	
mgoutputPhaseIndex.3	3	Integer	
mgoutputVoltage. 1	2410	Integer	
mgoutputVoltage.2	2410	Integer	
mgoutputVoltage.3	2410	Integer	
mgoutputFrequency.1	500	Integer	
mgoutputFrequency.2	500	Integer	
mgoutputFrequency.3	500	Integer	
mgoutputLoadPerPhase.1	0	Integer	
mgoutputLoadPerPhase.2	0	Integer	
mgoutputLoadPerPhase.3	0	Integer	
mgoutputCurrent.1	0	Integer	
mgoutputCurrent.2	0	Integer	
e enterprises mgoutputCurrent.3	0	Integer	
upsmgOutputOnBattery.0	no (2)	Integer	
SNMDv2-SMT upsmgOutputOnByPass.0	no (2)	Integer	
upsmgOutputUtilityOff.0	no (2)	Integer	
upsmgOutputInverterOff.0	yes (1)	Integer	
upsmgOutputOverLoad.0	no (2)	Integer	
upsmgOutputOverTemp.0	no (2)	Integer	
upsmgEnvironAmbientTemp.0	242	Integer	
xes unsmoEnvironAmbientHumidity 0	461	Integer	
upsmgEnvironmentNum 0	1	Integer	
upsmgEnvironmentIndex 1	1	Integer	
upsingEnvironmentComEsilure_1	1 (2)	Integer	
upsingEnvironmentTemporature 1	242	Integer	
upsingci virioi Ment Temperature, 1	1 no (2)	Integer	
upsingci vir or Iffert Literity end upsingci vir or Iffert Literity end upsingci vir or Iffert	1 20 (2)	Integer	
upsnigenvironment i emperaturerlign.	1 10 (2)	Integer	
upsnigenvironmentHumiaity, 1	104	Integer	
upsmgEnvironmentHumidityLow.1	no (2)	Integer	
upsmgEnvironmentHumidityHigh.1	no (2)	Integer	
upsmgEnvironmentInput1State.1	open (2)	Integer	
upsmgEnvironmentInput2State.1	open (2)	Integer	=
upsmgAgentIpaddress.0	10.130.35.92	IpAddress	-
upsmgAgentSubnetMask.0	255.255.252.0	IpAddress	
upsmgAgentDefGateway.0	10.130.32.1	IpAddress	
upsmgAgentType.0	deviceEth (1)	Integer	
upsmgAgentMibVersion.0	170	Integer	
upsmgAgentFirmwareVersion.0		OctetString	
unamed appel Control 100.0			



🕤 Save				×
Save in:	🧮 Bureau		- 🗊 🖻	۶ 🛄 -
ea	🥃 Bibliothèo	lues		
Documents r	Ordinateu	r		
Bureau	Keseau			
Mes documents				
Ordinateur				
	File name:	UPS_DIDs.xml		Save
Réseau	Files of type:	XML File		Cancel



Import into Excel

Open Microsoft Excel and go to Data/ From other sources and select From XML Data Import





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Select your file and just import the XML file generated with iReasoning MIB Browser

	А	В	С	D
1	name 🗾 🗾	oid 💌	valueType 💌	Value 🗾
2	upsIdentManufacturer.0	.1.3.6.1.2.1.33.1.1.1.0	OctetString	EATON
3	upsIdentModel.0	.1.3.6.1.2.1.33.1.1.2.0	OctetString	Evolution 650
4	upsIdentUPSSoftwareVersion.0	.1.3.6.1.2.1.33.1.1.3.0	OctetString	INV: 620106
5	upsIdentAgentSoftwareVersion.0	.1.3.6.1.2.1.33.1.1.4.0	OctetString	Network Management Card V6.00 JJ
6	upsIdentName.0	.1.3.6.1.2.1.33.1.1.5.0	OctetString	ID: AREM4802C , Msg: unknown
7	upsIdentAttachedDevices.0	.1.3.6.1.2.1.33.1.1.6.0	OctetString	
8	upsBatteryStatus.0	.1.3.6.1.2.1.33.1.2.1.0	Integer	batteryNormal (2)
9	upsSecondsOnBattery.0	.1.3.6.1.2.1.33.1.2.2.0	Integer	0
10	upsEstimatedMinutesRemaining.0	.1.3.6.1.2.1.33.1.2.3.0	Integer	87
11	upsEstimatedChargeRemaining.0	.1.3.6.1.2.1.33.1.2.4.0	Integer	100
12	upsBatteryVoltage.0	.1.3.6.1.2.1.33.1.2.5.0	Integer	140
13	upsBatteryCurrent.0	.1.3.6.1.2.1.33.1.2.6.0	Integer	0
14	upsBatteryTemperature.0	.1.3.6.1.2.1.33.1.2.7.0	Integer	0
15	upsInputLineBads.0	.1.3.6.1.2.1.33.1.3.1.0	Counter32	1
16	upsInputNumLines.0	.1.3.6.1.2.1.33.1.3.2.0	Integer	1
17	upsInputFrequency.1	.1.3.6.1.2.1.33.1.3.3.1.2.1	Integer	500
18	upsInputVoltage.1	.1.3.6.1.2.1.33.1.3.3.1.3.1	Integer	241
19	upsInputCurrent.1	.1.3.6.1.2.1.33.1.3.3.1.4.1	Integer	0
20	upsInputTruePower.1	.1.3.6.1.2.1.33.1.3.3.1.5.1	Integer	0
21	upsOutputSource.0	.1.3.6.1.2.1.33.1.4.1.0	Integer	normal (3)
22	upsOutputFrequency.0	.1.3.6.1.2.1.33.1.4.2.0	Integer	500
23	upsOutputNumLines.0	.1.3.6.1.2.1.33.1.4.3.0	Integer	1
24	upsOutputVoltage.1	.1.3.6.1.2.1.33.1.4.4.1.2.1	Integer	241
25	upsOutputCurrent.1	.1.3.6.1.2.1.33.1.4.4.1.3.1	Integer	1
26	upsOutputPower.1	.1.3.6.1.2.1.33.1.4.4.1.4.1	Integer	0
27	upsOutputPercentLoad.1	.1.3.6.1.2.1.33.1.4.4.1.5.1	Integer	0
28	upsBypassFrequency.0	.1.3.6.1.2.1.33.1.5.1.0	Integer	0
29	upsBypassNumLines.0	.1.3.6.1.2.1.33.1.5.2.0	Integer	0
30	upsAlarmsPresent.0	.1.3.6.1.2.1.33.1.6.1.0	Gauge	0
31	upsTestResultsSummary.0	.1.3.6.1.2.1.33.1.7.3.0	Integer	donePass (1)
32	upsTestResultsDetail.0	.1.3.6.1.2.1.33.1.7.4.0	OctetString	
33	upsTestStartTime.0	.1.3.6.1.2.1.33.1.7.5.0	TimeTicks	31 hours 29 minutes (11334034)

End of the procedure.