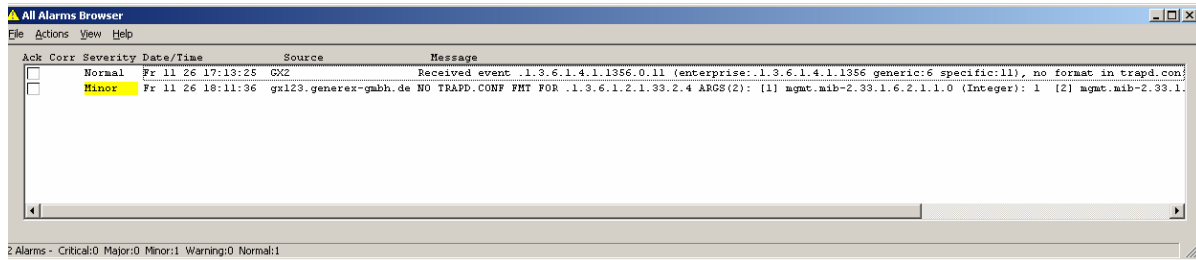


HP OPENVIEW Nodemanage for Windows Version 7.5

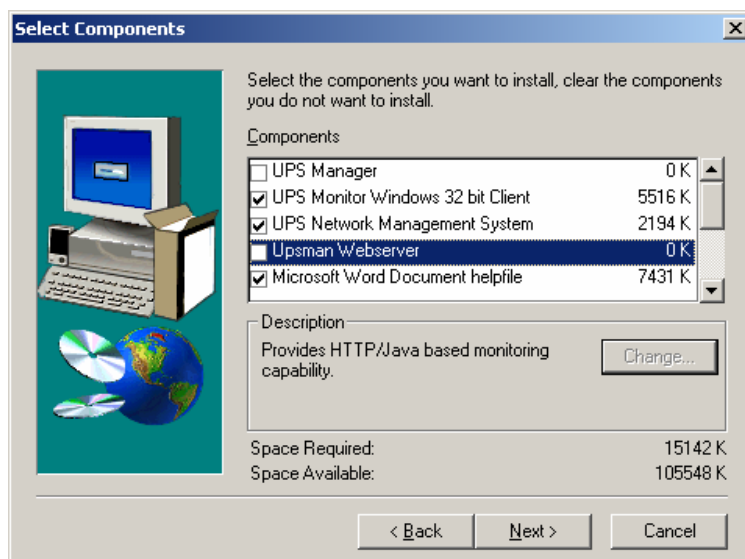
Configuration for the use with CS121 FW 2.6x extended RFC1628 UPS MIB:

If you have already installed a CS121 SNMP Webadapter or UPSMAN SNMP Agent, your HP OV Alarmbrowser may not correctly identify the traps coming from those objects:

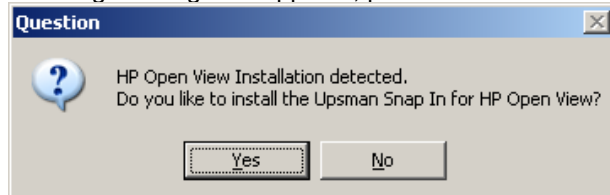


To solve this problem please follow the instructions below:

1. Before starting the installation please start your HP Openview Nodemanager and make sure all processes of HP OV run smoothly and the trap receiver is active.
2. Insert CD 5.06X or higher and enter the Licensekey for Windows. If you do not want to use the UPSMAN service (RS-232/USB network manager) but only the CS121, than please do not install the UPSMAN component of this software, disable the component and install only UPSMON as shown below.



2. The new UPSMAN CDs after version 5.06 include an automatic HP Openview Nodemanager installation routine if such a installation is found on your Computer. For this, the SETUP checks if the entry *HKEY_Local_Machine\Software\Hewlett-Packard\Openview* is found in the registry. If the entry is found, the following messagebox appears, please confirm with YES.



This will install the HP OV Snapin module and the following action will be processed by the SETUP tool in the background:

The SETUP creates and copies the following files:

- UPSMON.CMD : This is the startupfile of the Windows UPSMON viewing tool. This file is copied into <HP Openview Path>/BIN/UPSMON.CMD is a scriptfile which is started by doubleclicking on the UPS SNMP Object, it gives the IP address of this object so that it will directly connect with the UPS device. Note: You may change this scriptfile if you want to start any other application than UPSMON32.EXE, eg. If you want to monitor any other RFC 1628 SNMP device which is not manufactured by GENEREX, please change the entry in this UPSMON.CMD file to SNMP, syntax: `upsmon32.exe -p:snmp -a:%1`. Please open file "upsmon.cmd" inside <HP Openview Path//bin/ with any editor if you want to do changes.

- UPSMON: This is the registration file for HP Openview. It will be copied into the <HP Openview Path>/registration/C folder. This file registers the UPSMON startup file upsmon.cmd at HP Openview.

- UPSTRAP_D.CONF: This is the CS121 RFC 1628 TRAP configuration file. This file is copied into <HP Openview Path>/BIN/. This file defines the traps sent in format RFC 1628 by the CS121 in readable traps for HP OV.

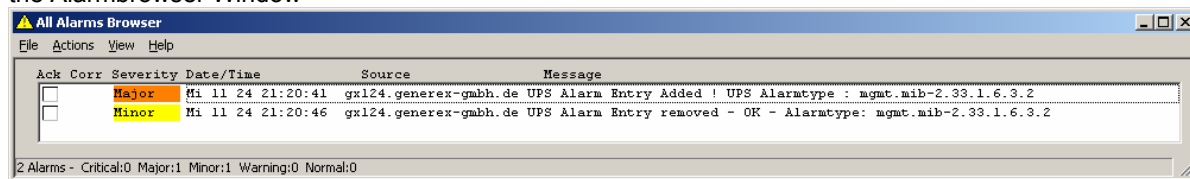
3. After the copy process the file will be registered at HP OV by the command "xnmevents -replace upstrapd.conf". (If you receive an error message or if the Snapin does not work properly, please re-enter this command from a commandline and check for results.) If no error message occurs, then the import was OK and the EVENTS of CS121 have been successfully imported to your trapd.conf file.

File sRFC1628CS121.MIB and UPSMAN.MIB files are copied into <HP Openview Path>/snmp_mibs/standard, the UPSMAN.MIB into <HP Openview Path>/snmp_mibs/vendor/GENEREX.

- RFC1628CS121.MIB is the database for CS121 SNMP Webadapters. If you use such devices in your network you have to add this MIB to your HP OV Database – see the description how to load MIBs at the end of this file.

- UPSMAN.MIB is the database for UPSMAN software running on windows and using the SNMP proxy agent UPSAGNT.DLL. If you have UPSMAN software in your network running, you have to compile this MIB to your HP OV MIB database.

4. At this point the Nodemanager already understands the CS121 Traps and will display them as follows at the Alarmbrowser Window



At CS121 you may test this with the SNMP Test function in the Webbrowser menu:

SNMP Settings

SNMP Communities			SNMP Trap Receivers	
Address	Community	Permission	Address	Community
1 192.168.202.31	public	Read/Write	1 192.168.202.31	public
2 0.0.0.0		Read only	2 0.0.0.0	
3 0.0.0.0		Read only	3 0.0.0.0	
4 0.0.0.0		Read only	4 0.0.0.0	
5 0.0.0.0		Read only	5 0.0.0.0	
6 0.0.0.0		Read only	6 0.0.0.0	
7 0.0.0.0		Read only	7 0.0.0.0	
8 0.0.0.0		Read only	8 0.0.0.0	
9 0.0.0.0		Read only	9 0.0.0.0	
10 0.0.0.0		Read only	10 0.0.0.0	

Apply

Test SNMP Traps

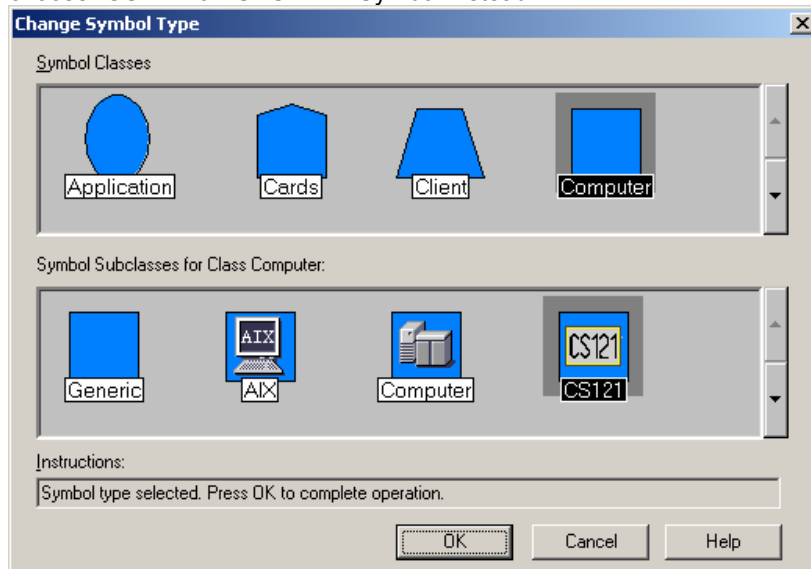
You can send a powerfail trap and a power restored trap to the receivers defined below.
Please note: To test newly added receivers, you must save the configuration and reboot the CS121 first.

192.168.202.031 public

Test

Note: UPSMAN Traps are not yet correctly shown, for this you have to follow the instruction and load the UPSMAN.MIB manually – see end subject 7 in this file.

5. CS121 icons are copied into the folder \bitmaps\C\computer. If you want to change the default Icon from HP OV into a CS121 icon, please open in HP OV “Change Symbol Type”, choose “COMPUTER”, and choose “CS121” or “UPSMAN” Symbol instead.

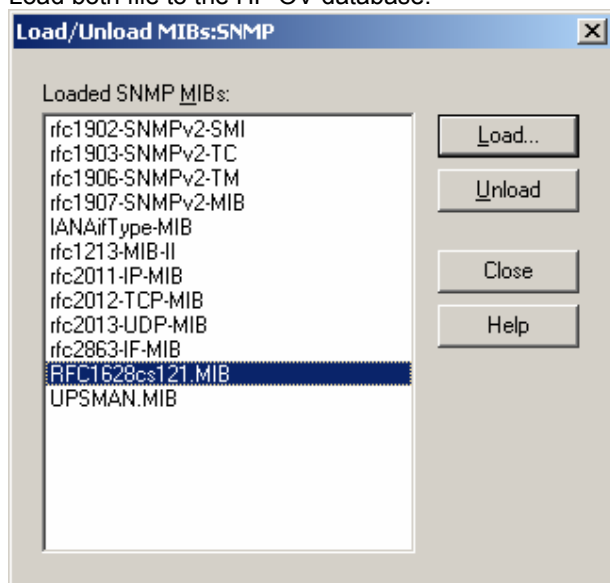


6. After the copy process of HP OV related files has ended, the SETUP continues to install the UPSMON files into the default directory at <Program Files>/UPS.

7. Stop/restart all Nodemanager services. After having restarted the Nodemanager services, please open your Nodemanager for Windows again and search for your new UPS SNMP device. If present, goto OPTIONS and open LOAD/UNLOAD MIBs -SNMP.

8. If not already present (you did not use the SETUP for HP OV Snapin) please Download the CS121 MIB “RFC1628CS121.MIB”, available as download from GENEREX Website and install the MIB manually. (SETUP does this normally automatically, if you did not use the SETUP tool you have to copy the MIB files manually). Unzip the file and copy it into <HP Openview Path>/snmp_mibs/vendor/OTHER-VENDORS/. UPSMAN.MIB is to be found in the UPSMAN folder, RFC1628CS121.MIB is available as download from <http://www.generex.de/wwwfiles/mib/SNMPAdapterCS121.zip>

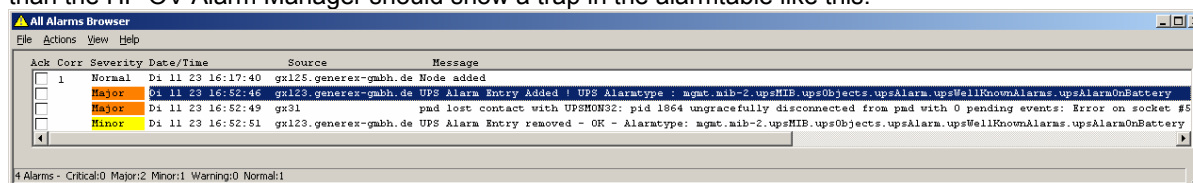
Load both file to the HP OV database:



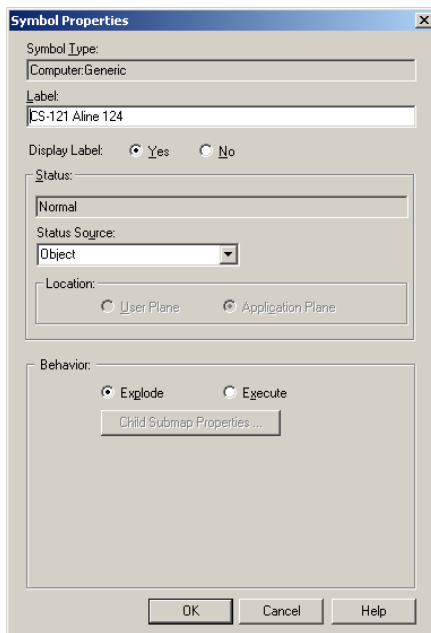
If you did not successfully compile the MIB, you will receive an undefined alarm such as:

```
Do Jan 16 17:19:29
192.168.202.125
NO TRAPD.CONF.FMT.FOR.1.3.6.1.2.1.33.2.0.4.ARGS(2): [1] mgmt.mib-2.upsMIB.upsObjects.upsAlarm.upsAlarmTable.upsAlarmEntry.upsAlarmId.0 (Integer): 1 [2]
mgmt.mib-2.upsMIB.upsObjects.upsAlarm.upsAlarmTable.upsAlarmEntry.upsAlarmDescr.0 (ObjectIdentifier): mgmt.mib-2.upsMIB.upsObjects.upsAlarm.upsWellKnownAlarms.upsAlarmOnBattery
```

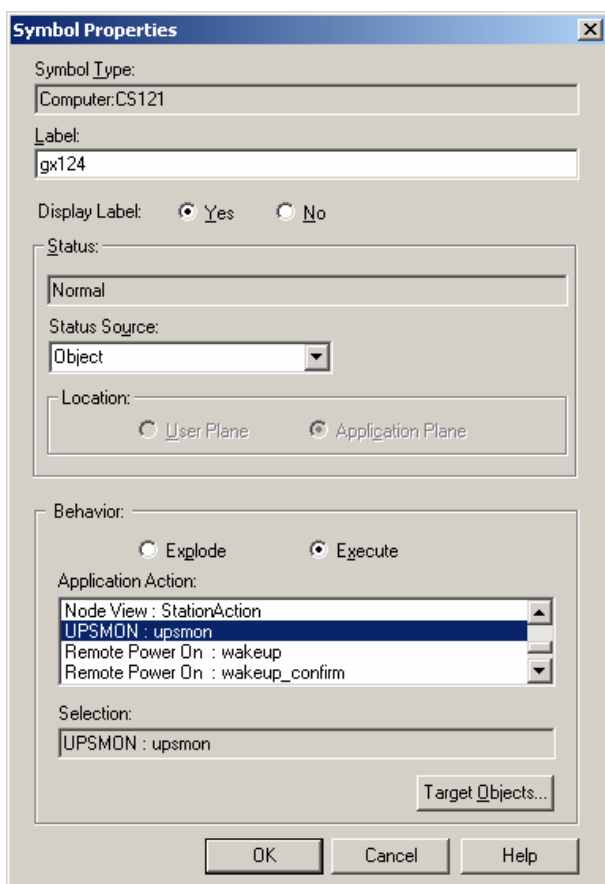
To solve this problem, please retry the UPS MIB compile process. If you successfully compiled the MIB than the HP OV Alarm Manager should show a trap in the alarmtable like this:



9. Enable HP OV Snapin : To allow a change of the icon color of your UPS object in HPOV, you have to open the Symbol Property page and change the Status source to “object”:

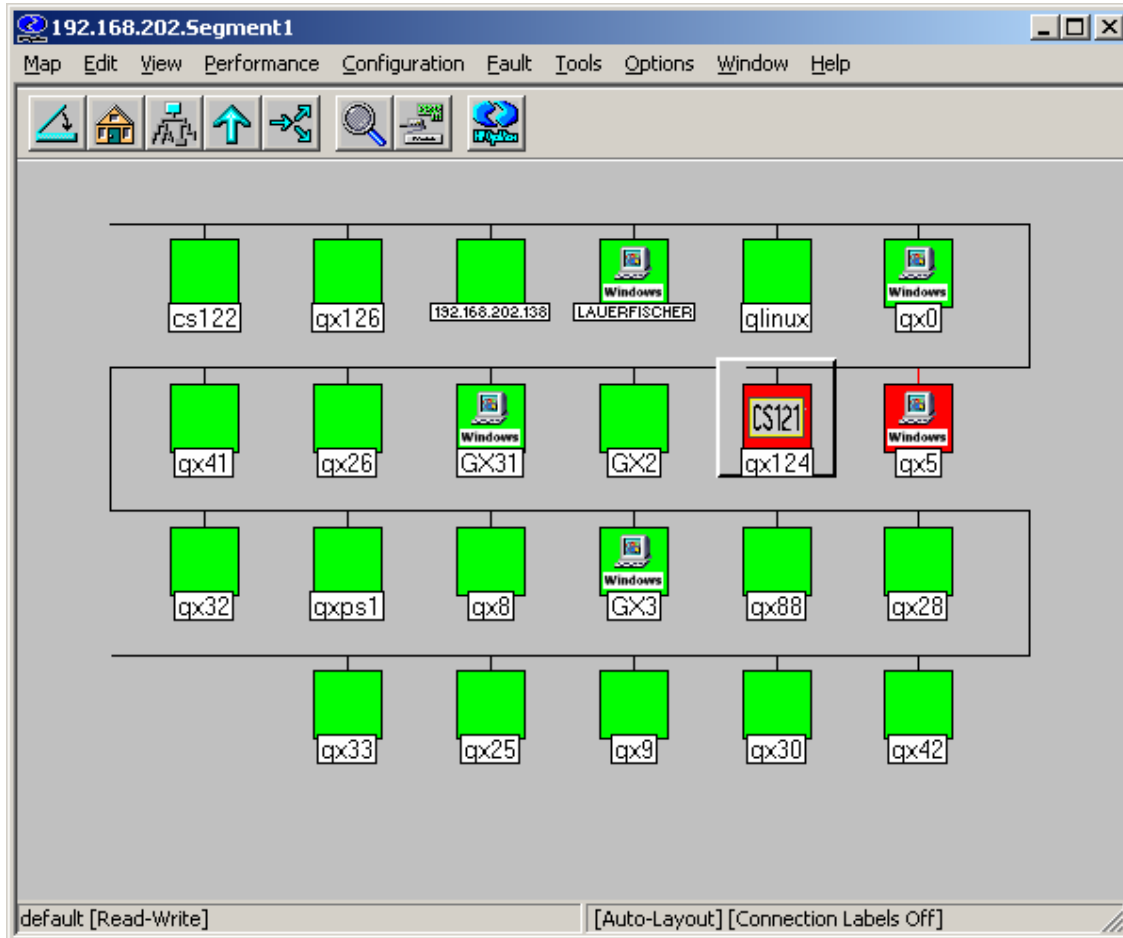


10. Change the Behaviour to EXECUTE and choose from the list the entry “UPSMON”:

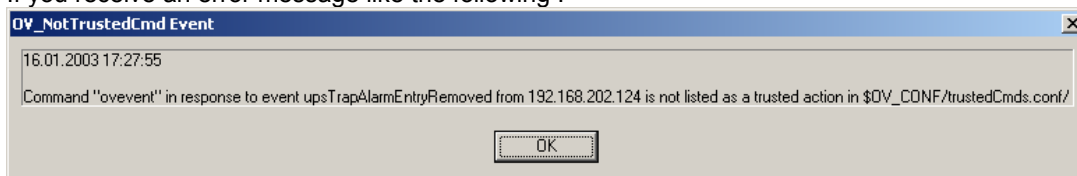


11. Test if you icon changes the color now and if the traps are now correctly recognized.

Note : The testing function of the CS121 will not work here, this test is too short to make the symbol change its color. You have to simulate a real, extended Powerfailure to see that the icons colors are changing.



If you receive an error message like the following :



than please open with any editor the file "Trustedcmds.conf" (HP OV 6.3) and change/add the following lines (ovevent=<HP OV path>\bin\ovevent.exe) :

```
snmpnotify=$OV_BIN/snmpnotify
ovIfIndexRemap.ovpl=$OV_BIN/ovIfIndexRemap.ovpl
ovevent=$OV_BIN/ovevent.exe
```

At HP OV 7.5 you have to create a new file in the folder <HP OV path>\conf\trustedCmds.conf. Name this file "ALLOW_ALL" (larger letters, no extension) and enter the commandstring "ovevent=\$OV_BIN/ovevent.exe" here.

12. After you have created this file, please stop and restart the HP OV services or open a commandline and enter "xmevents -events".