HP OPENVIEW Nodemanager for Windows Version 6.3/6.4 & 7.5
Configuration for the use with CS121 FW 2.6x extended RFC1628 UPS MIB:

UPSMAN Software SNMP subagent: 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 Nodemanager is found, the SETUP will ask you if you want to install the HP OV Snapin module. If you answer YES, the following action will be taken:

1. The SETUP creates and copies the following files:

A. 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 is give the IP adress of this object so that it will directly connect with the UPS device. The "look&feel" is identical to the UPSMAN and UPSMON server software. You may change this scriptfile if you want to start any other application than UPSMON32.EXE.

B. UPSMON: This is the registration file for HP Openview. It will be copied into the <HP Openview Path>/registration folder.

C. UPSTRAP_D.CONF: This is the CS121 RFC 1628 TRAP configuration file.
This file is copied into <HP Openview Path>/BIN/.
After the copy process the file will be registered at HP OV by "xnmevents –replace upstrapd.conf"

D. RCF1628CS121.MIB and UPSMAN.MIB files are copied into the mib folder.

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.

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.

Starting the UPSMAN.MIB is achieved with the menu option: Option: Load/Unload. From the MIB list now the UPSMAN.mib should be selected. After the RFC-1628   MIB/UPSMAN.MIB compilation, the user must manually configure the traps as "Events". In addition the following procedure applies:

1. Please unload all older MIB files from Openview, e.g. >Options >Load/Unload MIBs unload RFC1628.
2. Important is, that older Trap definitions are unloaded also, like e.g.. > option >EventConfiguration.
3. With the selection SELECT upsTraps are deleted, select one of the 4 traps (e.g. upsonbattery) and then >Edit >Events >delete
4. Repeat this procedure for all 4 Traps to execute and then >Edit >Enterprises >delete executes, whereby all UPS Traps should be deleted now.
5. Please save the modifications, before the program is closed.

The loading of the new MIBs is achieved with the following procedure:

Note: The trap macro should be confirmed with ok and no error messages should appear.

1. For each trap a new message must be defined, e.g. >Options >EventConfiguration, you select upsTrap and double click on trap upsonbattery:
2. In the window "Modify events". Select Card: "Event Messages" and then log&display in the Event category, whereby a category must be selected. The Severity (danger degree) should be adjusted to major.
3. The message should read "UPS on Battery "

4. Repeat this process for all 4 traps respectively. As a message "$2" should be keyed in, whereas "$2 " means that the second argument is given out.
5. Please store the modification before closing the program.

The adjusted traps should -when occurring-, now be written into the event log. The HP Openview snap-in is now fully operational. For problems please also consider the section "Troubleshooting".

1. Unload any previous RFC1628 UPSMIB from HP OV if you want to use RFC1628CS121.MIB
Information: Do not use the original UPS MIB coming with HP Openview 6.3 ! This MIB contains a bug which makes the TRAPS unreadable ! If you want to use the original HP OV UPS MIB than you will have access only to UPS values, not to the extended values of
HP OV cannot import the MIB correctly if there are the following lines int his MIB – please remove the marked lines and add ";" after the last line:

```
        FROM SNMPv2-TC
    MODULE-COMPLIANCE, OBJECT-GROUP
        FROM SNMPv2-CONF;
;      mib-2
;         FROM RFC1213-MIB;
```
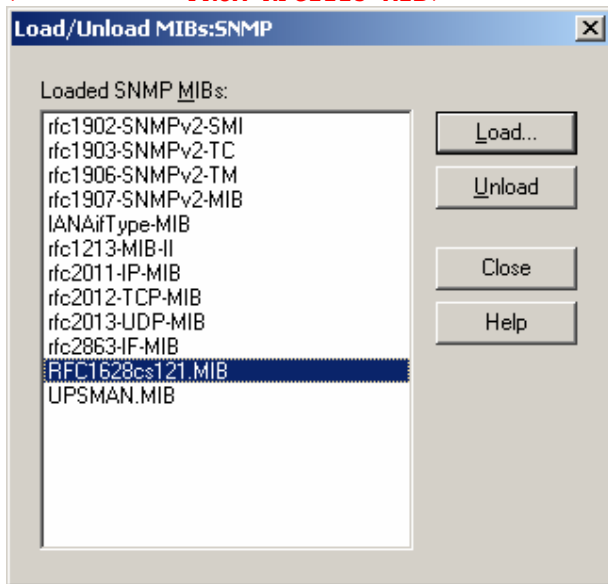

2. Load the CS121 MIB " RFC1628CS121.MIB", available as download from GENEREX Website.

3. Connect to your CS121 with Telnet and send your HP OPENVIEW an SNMP Trap (via Testroutine, Telnet Menue "Network & Security Setting", "Test SNMP Traps".
Your HP OV receives a TRAP similar to this:

4. Copy the file "upstrapd.conf" from the GENEREX CS121 Website into your HP Openview directory /BIN/ (The file should be in the directory where you can locate the program. "Xnmevents.exe").

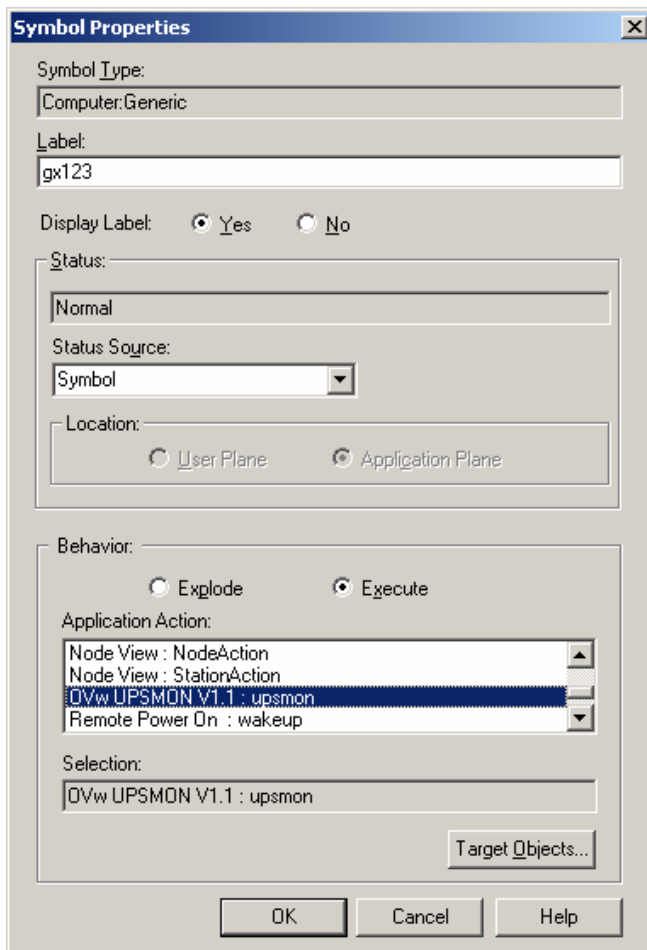Execute from a commandline : "xnmevents -replace ups_trapd.conf".

If no error message occurs, than the import was OK and the EVENTS of CS121 have been successfully imported to your trapd.conf file.

5. To make the color of the icons in HPOV change its colour in case that a critical alarm Trap is received, you have to do the following :

Open the Symbol Property Page and change the Status source to "object"
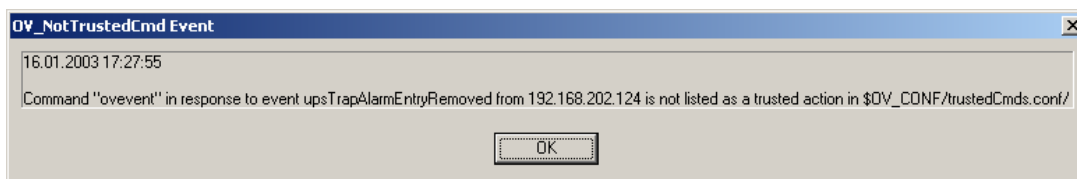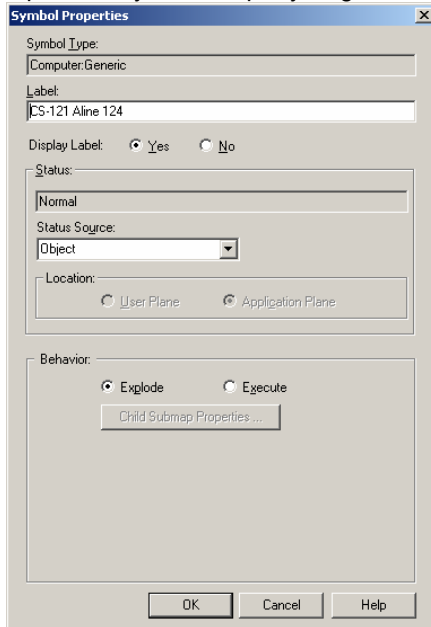

6. Change the Behaviour to EXECUTE: Choose from the list the entry UPSMON

Dazu muss 2upsmon"nach registration C kopiert werden.

Im Path BIN muss UPSMON.CMD angelegt werden, wo UPSMON32.exe mit %1 IP angelegt werden.

Test if you icon changes the color now and if the traps are now correctly recognized (use again Telnet and do a SNMP Test). If you receive an error message like the following :

than please open with any editor the file "Trustedcmds.conf" 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
```

HP OV 7.5:

Do not change any existing NNM file in this directory CONF, create a file ALLOW_ALL with the following entry: After this restart HP OV services – or start from commandline "xnmevents –events" - FINISH