

Réseau

- [Hirschmann - Exemple configuration](#)
- [Réseau - Entêtes des trames](#)

Hirschmann - Exemple configuration

```
! GRS1042-6T6Z Configuration
```

```
! Version: HiOS-3A-08.6.00
```

```
! Build Date: 2021-01-14 12:51
```

```
network hidiscovery mode read-only
no network hidiscovery operation
network management access web timeout 30
network out-of-band parms 10.10.10.1 255.255.255.0 0.0.0.0
network out-of-band protocol none
network management access add 2
network management access add 3
network management access add 4
network management access modify 1 ip 10.10.10.0
network management access modify 2 ip 192.168.33.59
network management access modify 3 ip 192.168.7.247
network management access modify 4 ip 192.168.7.248
network management access modify 1 mask 24
network management access modify 2 mask 32
network management access modify 3 mask 32
network management access modify 4 mask 32
network management access modify 1 http disable
network management access modify 2 http disable
network management access modify 3 http disable
network management access modify 4 http disable
network management access modify 1 snmp disable
network management access modify 2 snmp disable
network management access modify 3 snmp disable
network management access modify 1 telnet disable
```

```
network management access modify 2 telnet disable
network management access modify 3 telnet disable
network management access modify 4 telnet disable
network management access modify 1 iec61850-mms disable
network management access modify 2 iec61850-mms disable
network management access modify 3 iec61850-mms disable
network management access modify 4 iec61850-mms disable
network management access modify 1 modbus-tcp disable
network management access modify 2 modbus-tcp disable
network management access modify 3 modbus-tcp disable
network management access modify 4 modbus-tcp disable
network management access modify 1 ethernet-ip disable
network management access modify 2 ethernet-ip disable
network management access modify 3 ethernet-ip disable
network management access modify 4 ethernet-ip disable
network management access modify 1 profinet-io disable
network management access modify 2 profinet-io disable
network management access modify 3 profinet-io disable
network management access modify 4 profinet-io disable
```

```
vlan database
```

```
vlan add 30
```

```
vlan add 31
```

```
vlan add 32
```

```
vlan add 33
```

```
vlan add 39
```

```
name 30 encodeurs
```

```
name 31 cameras
```

```
name 32 admin
```

```
name 33 video
```

```
name 39 interco
```

```
routing add 30
```

```
routing add 31
```

```
routing add 32
```

```
routing add 33
```

```
routing add 39
```

```
igmp-snooping vlan-id 30 mode
```

```
igmp-snooping vlan-id 31 mode
```

```
igmp-snooping vlan-id 30 querier mode
```

```
igmp-snooping vlan-id 31 querier mode
```

```
exit
network management vlan 32
network parms 0.0.0.0 0.0.0.0 0.0.0.0
network protocol none
! dot1x mac-authentication-bypass password ""
configure
device-status monitor link-failure
device-status monitor ring-redundancy
device-status monitor module-removal
device-status module 2 enable
device-status module 3 enable
mrp domain add default-domain
mrp domain modify port secondary 1/2 fixed-backup disable
mrp domain modify advanced-mode enable
mrp domain modify manager-priority 32768
mrp domain modify mode client
mrp domain modify name ""
mrp domain modify recovery-delay 200ms
mrp domain modify vlan 0
mrp domain modify operation enable
mrp operation enable
no dns cache adminstate
no dns client cache adminstate
clock summer-time mode recurring
clock summer-time recurring start last sun mar 02:00
clock summer-time recurring end last sun oct 03:00
config remote-backup operation
config remote-backup destination ftp://192.168.33.59/Hirschmann/SW601X.xml
! config remote-backup username *****
! config remote-backup password *****
config envm auto-update sd disable
config envm auto-update usb disable
config envm config-save sd disable
config envm config-save usb disable
config envm sshkey-auto-update sd disable
config envm sshkey-auto-update usb disable
no http server
igmp-snooping forward-unknown query-ports
igmp-snooping mode
igmp-snooping querier mode
```

```
monitor session 1 destination interface 1/8
monitor session 1 source interface 3/8 operation enable
monitor session 1 source interface 3/8 direction txrx
monitor session 1 mode enable
ip routing
ip vrrp operation
ip vrrp trap auth-failure
ip vrrp trap new-master
ip vrrp domain 1 member-advertisement enable
ip vrrp domain 2 member-advertisement enable
ip vrrp domain 3 member-advertisement enable
ip vrrp domain 4 member-advertisement enable
ip vrrp domain 6 member-advertisement enable
ip default-route add 192.168.39.249
passwords max-login-attempts 5
passwords min-length 8
ptp v2-transparent-clock vlan-priority 4
no inlinepower operation
security-status monitor pwd-policy-inactive
security-status monitor extnvm-upd-enabled
security-status monitor no-link-enabled
security-status monitor sysmon-enabled
security-status trap
snmp client server add 1 192.168.33.1 port 123 description "NTP SE BPNL"
snmp client server mode 1 enable
snmp client operation
snmp client request-interval 3600
spanning-tree forceversion mstp
spanning-tree forward-time 4
spanning-tree hello-time 1
spanning-tree max-age 6
spanning-tree mst instance add 1
spanning-tree mst instance modify 0 priority 36864
spanning-tree mst instance modify 1 priority 32768
spanning-tree mst instance modify 1 vlan add 33
spanning-tree mst instance modify 1 vlan add 39
spanning-tree configuration name BPNL
spanning-tree configuration revision 30
system location "Switch federateur : Site X"
system name SW601X
```

```
snmp trap add "Zabbix" 192.168.7.248:162
snmp trap mode Zabbix enable
mac notification operation
mac notification interval 60
ip access-list extended name Vlan31_IN index 3 permit src 238.0.0.0-0.255.255.255 dst
172.20.0.0-0.0.255.255
ip access-list extended name Vlan31_IN index 4 permit src 172.20.0.0-0.0.255.255 dst
238.0.0.0-0.255.255.255
ip access-list extended name Vlan31_IN index 5 permit src 10.100.0.0-0.0.0.255 dst 172.20.0.0-
0.0.255.255
ip access-list extended name Vlan31_IN index 6 permit src 172.20.0.0-0.0.255.255 dst
10.100.0.0-0.0.0.255
ip access-list extended name Vlan31_IN index 7 permit src 10.2.0.0-0.0.0.255 dst 172.20.0.0-
0.0.255.255
ip access-list extended name Vlan31_IN index 8 permit src 172.20.0.0-0.0.255.255 dst 10.2.0.0-
0.0.0.255
ip access-list extended name Vlan31_IN index 9 permit src 10.242.2.0-0.0.0.255 dst 172.20.0.0-
0.0.255.255
ip access-list extended name Vlan31_IN index 10 permit src 172.20.0.0-0.0.255.255 dst
10.242.2.0-0.0.0.255
ip access-list extended name Vlan31_IN index 11 permit src 192.168.33.1-0.0.0.0 dst
172.20.0.0-0.0.255.255
ip access-list extended name Vlan31_IN index 12 permit src 172.20.0.0-0.0.255.255 dst
192.168.33.1-0.0.0.0
ip access-list extended name Vlan31_IN index 13 permit src 192.168.33.59-0.0.0.0 dst
172.20.0.0-0.0.255.255
ip access-list extended name Vlan31_IN index 14 permit src 172.20.0.0-0.0.255.255 dst
192.168.33.59-0.0.0.0
ip access-list extended name Vlan31_IN index 15 permit src 192.168.7.247-0.0.0.0 dst
172.20.0.0-0.0.255.255
ip access-list extended name Vlan31_IN index 16 permit src 172.20.0.0-0.0.255.255 dst
192.168.7.247-0.0.0.0
ip access-list extended name Vlan31_IN index 17 permit src 192.168.7.248-0.0.0.0 dst
172.20.0.0-0.0.255.255
ip access-list extended name Vlan31_IN index 18 permit src 172.20.0.0-0.0.255.255 dst
192.168.7.248-0.0.0.0
ip access-list extended name Vlan32_IN index 1 permit src any dst 224.0.0.0-0.255.255.255
ip access-list extended name Vlan32_IN index 2 permit src 192.168.32.0-0.0.0.255 dst
192.168.32.0-0.0.0.255
```

```
ip access-list extended name Vlan32_IN index 3 permit src 10.100.0.0-0.0.0.255 dst
192.168.32.0-0.0.0.255
ip access-list extended name Vlan32_IN index 4 permit src 192.168.32.0-0.0.0.255 dst
10.100.0.0-0.0.0.255
ip access-list extended name Vlan32_IN index 5 permit src 10.2.0.0-0.0.0.255 dst 192.168.32.0-
0.0.0.255
ip access-list extended name Vlan32_IN index 6 permit src 192.168.32.0-0.0.0.255 dst 10.2.0.0-
0.0.0.255
ip access-list extended name Vlan32_IN index 7 permit src 10.2.0.0-0.0.0.255 dst 192.168.32.0-
0.0.0.255
ip access-list extended name Vlan32_IN index 8 permit src 192.168.32.0-0.0.0.255 dst 10.2.0.0-
0.0.0.255
ip access-list extended name Vlan32_IN index 9 permit src 10.242.2.0-0.0.0.255 dst
192.168.32.0-0.0.0.255
ip access-list extended name Vlan32_IN index 10 permit src 192.168.32.0-0.0.0.255 dst
10.242.2.0-0.0.0.255
ip access-list extended name Vlan32_IN index 11 permit src 192.168.33.1-0.0.0.0 dst
192.168.32.0-0.0.0.255
ip access-list extended name Vlan32_IN index 12 permit src 192.168.32.0-0.0.0.255 dst
192.168.33.1-0.0.0.0
ip access-list extended name Vlan32_IN index 13 permit src 192.168.33.59-0.0.0.0 dst
192.168.32.0-0.0.0.255
ip access-list extended name Vlan32_IN index 14 permit src 192.168.32.0-0.0.0.255 dst
192.168.33.59-0.0.0.0
ip access-list extended name Vlan32_IN index 15 permit src 192.168.7.247-0.0.0.0 dst
192.168.32.0-0.0.0.255
ip access-list extended name Vlan32_IN index 16 permit src 192.168.32.0-0.0.0.255 dst
192.168.7.247-0.0.0.0
ip access-list extended name Vlan32_IN index 17 permit src 192.168.7.248-0.0.0.0 dst
192.168.32.0-0.0.0.255
ip access-list extended name Vlan32_IN index 18 permit src 192.168.32.0-0.0.0.255 dst
192.168.7.248-0.0.0.0
ip access-list extended name Vlan33_IN index 1 permit src any dst 224.0.0.0-0.255.255.255
ip access-list extended name Vlan33_IN index 2 permit src 192.168.33.0-0.0.0.255 dst
192.168.33.0-0.0.0.255
ip access-list extended name Vlan33_IN index 3 permit src 10.100.0.0-0.0.0.255 dst
192.168.33.0-0.0.0.255
ip access-list extended name Vlan33_IN index 4 permit src 192.168.33.0-0.0.0.255 dst
10.100.0.0-0.0.0.255
ip access-list extended name Vlan33_IN index 5 permit src 10.2.0.0-0.0.0.255 dst 192.168.33.0-
```

0.0.0.255

ip access-list extended name Vlan33_IN index 6 permit src 192.168.33.0-0.0.0.255 dst 10.2.0.0-0.0.0.255

ip access-list extended name Vlan33_IN index 7 permit src 10.242.2.0-0.0.0.255 dst 192.168.33.0-0.0.0.255

ip access-list extended name Vlan33_IN index 8 permit src 192.168.33.0-0.0.0.255 dst 10.242.2.0-0.0.0.255

ip access-list extended name Vlan33_IN index 9 permit src 192.168.7.247-0.0.0.0 dst 192.168.33.0-0.0.0.255

ip access-list extended name Vlan33_IN index 10 permit src 192.168.33.0-0.0.0.255 dst 192.168.7.247-0.0.0.0

ip access-list extended name Vlan33_IN index 11 permit src 192.168.7.248-0.0.0.0 dst 192.168.33.0-0.0.0.255

ip access-list extended name Vlan33_IN index 12 permit src 192.168.33.0-0.0.0.255 dst 192.168.7.248-0.0.0.0

ip access-list extended name Vlan33_IN index 13 permit src 192.168.1.0-0.0.0.255 dst 192.168.33.1-0.0.0.0

ip access-list extended name Vlan33_IN index 14 permit src 192.168.33.1-0.0.0.0 dst 192.168.1.0-0.0.0.255

ip access-list extended name Vlan33_IN index 15 permit src 172.20.0.0-0.0.255.255 dst 192.168.33.1-0.0.0.0

ip access-list extended name Vlan33_IN index 16 permit src 192.168.33.1-0.0.0.0 dst 172.20.0.0-0.0.255.255

ip access-list extended name Vlan33_IN index 17 permit src 192.168.32.0-0.0.0.255 dst 192.168.33.1-0.0.0.0

ip access-list extended name Vlan33_IN index 18 permit src 192.168.33.1-0.0.0.0 dst 192.168.32.0-0.0.0.255

ip access-list extended name Vlan33_IN index 19 permit src 192.168.1.0-0.0.0.255 dst 192.168.33.59-0.0.0.0

ip access-list extended name Vlan33_IN index 20 permit src 192.168.33.59-0.0.0.0 dst 192.168.1.0-0.0.0.255

ip access-list extended name Vlan33_IN index 21 permit src 172.20.0.0-0.0.255.255 dst 192.168.33.59-0.0.0.0

ip access-list extended name Vlan33_IN index 22 permit src 192.168.33.59-0.0.0.0 dst 172.20.0.0-0.0.255.255

ip access-list extended name Vlan33_IN index 23 permit src 192.168.32.0-0.0.0.255 dst 192.168.33.59-0.0.0.0

ip access-list extended name Vlan33_IN index 24 permit src 192.168.33.59-0.0.0.0 dst 192.168.32.0-0.0.0.255

ip access-list extended name Vlan33_IN index 25 permit src 192.168.28.5-0.0.0.0 dst

```
192.168.33.11-0.0.0.0
ip access-list extended name Vlan33_IN index 26 permit src 192.168.33.11-0.0.0.0 dst
192.168.28.5-0.0.0.0
ip access-list extended name Vlan33_IN index 27 permit src 192.168.28.5-0.0.0.0 dst
192.168.33.12-0.0.0.0
ip access-list extended name Vlan33_IN index 28 permit src 192.168.33.12-0.0.0.0 dst
192.168.28.5-0.0.0.0
ip access-list extended name Vlan33_IN index 29 permit src 192.168.28.5-0.0.0.0 dst
192.168.33.21-0.0.0.0
ip access-list extended name Vlan33_IN index 30 permit src 192.168.33.21-0.0.0.0 dst
192.168.28.5-0.0.0.0
ip access-list extended name Vlan33_IN index 31 permit src 192.168.28.5-0.0.0.0 dst
192.168.33.22-0.0.0.0
ip access-list extended name Vlan33_IN index 32 permit src 192.168.33.22-0.0.0.0 dst
192.168.28.5-0.0.0.0
ip access-list extended name Vlan33_IN index 33 permit src 192.168.28.5-0.0.0.0 dst
192.168.33.23-0.0.0.0
ip access-list extended name Vlan33_IN index 34 permit src 192.168.33.23-0.0.0.0 dst
192.168.28.5-0.0.0.0
ip access-list extended name Vlan33_IN index 35 permit src 192.168.28.5-0.0.0.0 dst
192.168.33.31-0.0.0.0
ip access-list extended name Vlan33_IN index 36 permit src 192.168.33.31-0.0.0.0 dst
192.168.28.5-0.0.0.0
ip access-list extended name Vlan33_IN index 37 permit src 192.168.28.5-0.0.0.0 dst
192.168.33.32-0.0.0.0
ip access-list extended name Vlan33_IN index 38 permit src 192.168.33.32-0.0.0.0 dst
192.168.28.5-0.0.0.0
ip access-list extended name Vlan33_IN index 39 permit src 192.168.28.5-0.0.0.0 dst
192.168.33.33-0.0.0.0
ip access-list extended name Vlan33_IN index 40 permit src 192.168.33.33-0.0.0.0 dst
192.168.28.5-0.0.0.0
ip access-list extended name Vlan33_IN index 41 permit src 192.168.28.5-0.0.0.0 dst
192.168.33.34-0.0.0.0
ip access-list extended name Vlan33_IN index 42 permit src 192.168.33.34-0.0.0.0 dst
192.168.28.5-0.0.0.0
ip access-list extended name Vlan33_IN index 43 permit src 192.168.28.5-0.0.0.0 dst
192.168.33.35-0.0.0.0
ip access-list extended name Vlan33_IN index 44 permit src 192.168.33.35-0.0.0.0 dst
192.168.28.5-0.0.0.0
ip access-list extended name Vlan33_IN index 45 permit src 192.168.28.5-0.0.0.0 dst
```

```
192.168.33.36-0.0.0.0
ip access-list extended name Vlan33_IN index 46 permit src 192.168.33.36-0.0.0.0 dst
192.168.28.5-0.0.0.0
ip access-list extended name Vlan33_IN index 47 permit src 192.168.0.150-0.0.0.0 dst
192.168.33.21-0.0.0.0
ip access-list extended name Vlan33_IN index 48 permit src 192.168.33.21-0.0.0.0 dst
192.168.0.150-0.0.0.0
ip access-list extended name Vlan33_IN index 49 permit src 192.168.0.150-0.0.0.0 dst
192.168.33.22-0.0.0.0
ip access-list extended name Vlan33_IN index 50 permit src 192.168.33.22-0.0.0.0 dst
192.168.0.150-0.0.0.0
ip access-list extended name Vlan33_IN index 51 permit src 192.168.0.150-0.0.0.0 dst
192.168.33.23-0.0.0.0
ip access-list extended name Vlan33_IN index 52 permit src 192.168.33.23-0.0.0.0 dst
192.168.0.150-0.0.0.0
ip access-list extended name Vlan33_IN index 53 permit src 192.168.0.151-0.0.0.0 dst
192.168.33.21-0.0.0.0
ip access-list extended name Vlan33_IN index 54 permit src 192.168.33.21-0.0.0.0 dst
192.168.0.151-0.0.0.0
ip access-list extended name Vlan33_IN index 55 permit src 192.168.0.151-0.0.0.0 dst
192.168.33.22-0.0.0.0
ip access-list extended name Vlan33_IN index 56 permit src 192.168.33.22-0.0.0.0 dst
192.168.0.151-0.0.0.0
ip access-list extended name Vlan33_IN index 57 permit src 192.168.0.151-0.0.0.0 dst
192.168.33.23-0.0.0.0
ip access-list extended name Vlan33_IN index 58 permit src 192.168.33.23-0.0.0.0 dst
192.168.0.151-0.0.0.0
ip access-group name Vlan31_IN vlan 31 out sequence 1
ip access-group name Vlan32_IN vlan 32 out sequence 2
ip access-group name Vlan33_IN vlan 32 out sequence 3

interface 1/1
mac notification operation
device-status link-alarm
igmp-snooping static-query-port
name HR-SW607Y
power-state
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no storm-control flow-control
```

```
vlan participation include 30
vlan tagging 30
vlan participation include 31
vlan tagging 31
vlan participation include 32
vlan tagging 32
vlan participation include 33
vlan tagging 33
vlan participation include 39
vlan tagging 39
exit
```

```
interface 1/2
mac notification operation
device-status link-alarm
igmp-snooping static-query-port
name HR-SW602X
power-state
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no storm-control flow-control
vlan participation include 30
vlan tagging 30
vlan participation include 31
vlan tagging 31
vlan participation include 32
vlan tagging 32
vlan participation include 33
vlan tagging 33
vlan participation include 39
vlan tagging 39
exit
```

```
interface 1/3
mac notification operation
device-status link-alarm
name "UPlink HP"
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no storm-control flow-control
```

```
vlan participation exclude 1
vlan participation exclude 30
vlan participation exclude 31
vlan participation exclude 32
vlan participation include 33
vlan tagging 33
vlan participation include 39
vlan tagging 39
exit
```

```
interface 1/4
device-status link-alarm
name PGATEX1
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation exclude 30
vlan participation exclude 31
vlan participation exclude 32
vlan participation include 33
vlan participation exclude 39
vlan pvid 33
exit
```

```
interface 1/5
mac notification operation
no auto-negotiate
device-status link-alarm
name RC-SW603X
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no spanning-tree edge-auto
no spanning-tree mode
no storm-control flow-control
vlan participation include 30
vlan tagging 30
vlan participation include 31
vlan tagging 31
```

```
vlan participation include 32
vlan tagging 32
vlan participation exclude 33
vlan participation exclude 39
exit
```

```
interface 1/6
shutdown
ptp v2-boundary-clock vlan-priority 4
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation exclude 30
vlan participation exclude 31
vlan participation exclude 32
vlan participation exclude 33
vlan participation exclude 39
exit
```

```
interface 1/7
device-status link-alarm
name prov-existantRS30
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation include 30
vlan participation exclude 31
vlan participation exclude 32
vlan participation exclude 33
vlan participation exclude 39
vlan pvid 30
exit
```

```
interface 1/8
device-status link-alarm
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no spanning-tree edge-auto
```

```
no spanning-tree mode
vlan participation exclude 1
vlan participation exclude 30
vlan participation exclude 31
vlan participation exclude 32
vlan participation include 33
vlan tagging 33
vlan participation exclude 39
vlan pvid 33
exit
```

```
interface 1/9
device-status link-alarm
name SVIDNVRW1
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation include 30
vlan tagging 30
vlan participation include 31
vlan tagging 31
vlan participation exclude 32
vlan participation include 33
vlan tagging 33
vlan participation exclude 39
exit
```

```
interface 1/10
shutdown
ptp v2-boundary-clock vlan-priority 4
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation exclude 30
vlan participation exclude 31
vlan participation exclude 32
vlan participation exclude 33
vlan participation exclude 39
```

```
exit
```

```
interface 1/11
name SVIDNVRX1
ptp v2-boundary-clock vlan-priority 4
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation exclude 30
vlan participation exclude 31
vlan participation exclude 32
vlan participation include 33
vlan participation exclude 39
vlan pvid 33
exit
```

```
interface 1/12
name SVIDNVRX2
ptp v2-boundary-clock vlan-priority 4
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation exclude 30
vlan participation exclude 31
vlan participation exclude 32
vlan participation include 33
vlan participation exclude 39
vlan pvid 33
exit
```

```
interface 2/1
device-status link-alarm
name SVIDNVRX1
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation include 30
vlan participation exclude 31
```

```
vlan participation exclude 32
vlan participation exclude 33
vlan participation exclude 39
vlan pvid 30
exit
```

```
interface 2/2
device-status link-alarm
name SVIDNVRX2
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation include 30
vlan participation exclude 31
vlan participation exclude 32
vlan participation exclude 33
vlan participation exclude 39
vlan pvid 30
exit
```

```
interface 2/3
device-status link-alarm
name SDAIANAX1
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation include 30
vlan tagging 30
vlan participation include 31
vlan tagging 31
vlan participation exclude 32
vlan participation include 33
vlan tagging 33
vlan participation exclude 39
exit
```

```
interface 2/4
device-status link-alarm
name SDAIANAX2
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation include 30
vlan tagging 30
vlan participation include 31
vlan tagging 31
vlan participation exclude 32
vlan participation include 33
vlan tagging 33
vlan participation exclude 39
exit
```

```
interface 2/5
device-status link-alarm
name SDAIANAX3
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation include 30
vlan tagging 30
vlan participation include 31
vlan tagging 31
vlan participation exclude 32
vlan participation include 33
vlan tagging 33
vlan participation exclude 39
exit
```

```
interface 2/6
device-status link-alarm
name SDAIANAX4
ptp v2-boundary-clock vlan-priority 4
```

```
security-status no-link
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation include 30
vlan tagging 30
vlan participation include 31
vlan tagging 31
vlan participation exclude 32
vlan participation include 33
vlan tagging 33
vlan participation exclude 39
exit
```

```
interface 2/7
device-status link-alarm
name SDAIANAX5
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation include 30
vlan tagging 30
vlan participation include 31
vlan tagging 31
vlan participation exclude 32
vlan participation include 33
vlan tagging 33
vlan participation exclude 39
vlan pvid 31
exit
```

```
interface 2/8
shutdown
ptp v2-boundary-clock vlan-priority 4
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation exclude 30
```

```
vlan participation exclude 31
vlan participation exclude 32
vlan participation exclude 33
vlan participation exclude 39
exit
```

```
interface 3/1
device-status link-alarm
name PDECX1
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation exclude 30
vlan participation exclude 31
vlan participation exclude 32
vlan participation include 33
vlan participation exclude 39
vlan pvid 33
exit
```

```
interface 3/2
device-status link-alarm
name PDECX2
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation exclude 30
vlan participation exclude 31
vlan participation exclude 32
vlan participation include 33
vlan participation exclude 39
vlan pvid 33
exit
```

```
interface 3/3
device-status link-alarm
```

```
name PDECX3
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation exclude 30
vlan participation exclude 31
vlan participation exclude 32
vlan participation include 33
vlan participation exclude 39
vlan pvid 33
exit
```

```
interface 3/4
device-status link-alarm
name PDECX4
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation exclude 30
vlan participation exclude 31
vlan participation exclude 32
vlan participation include 33
vlan participation exclude 39
vlan pvid 33
exit
```

```
interface 3/5
device-status link-alarm
name PVIDX1
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation exclude 30
vlan participation exclude 31
```

```
vlan participation exclude 32
vlan participation include 33
vlan participation exclude 39
vlan pvid 33
exit
```

```
interface 3/6
device-status link-alarm
name PVIDX2
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation exclude 30
vlan participation exclude 31
vlan participation exclude 32
vlan participation include 33
vlan participation exclude 39
vlan pvid 33
exit
```

```
interface 3/7
device-status link-alarm
name PVIDX3
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation exclude 30
vlan participation exclude 31
vlan participation exclude 32
vlan participation include 33
vlan participation exclude 39
vlan pvid 33
exit
```

```
interface 3/8
device-status link-alarm
```

```
name PVIDX4
ptp v2-boundary-clock vlan-priority 4
security-status no-link
no spanning-tree edge-auto
no spanning-tree mode
vlan participation exclude 1
vlan participation exclude 30
vlan participation exclude 31
vlan participation exclude 32
vlan participation include 33
vlan participation exclude 39
vlan pvid 33
exit

interface vlan/30
ip routing
ip address primary 192.168.1.250 255.255.255.0
no ip proxy-arp operation
no ip irdp operation
ip irdp address 224.0.0.1
ip irdp holdtime 1800
ip irdp maxadvertinterval 600
ip irdp minadvertinterval 450
ip irdp preference 0
ip ospf area-id 0.0.0.0
no ip ospf operation
ip ospf link-type broadcast
ip ospf priority 1
ip ospf transmit-delay 1
ip ospf retransmit-interval 5
ip ospf hello-interval 10
ip ospf dead-interval 40
ip ospf cost auto
no ip ospf mtu-ignore
ip ospf authentication type none
ip ospf authentication key-id 0
no ip ospf fast-hello
ip rip authentication type none
ip rip authentication key-id 0
ip rip send-version ripv2
```

```
ip rip receive-version both
no ip igmp operation
ip igmp querier query-interval 125
ip igmp version 3
ip igmp robustness 2
ip igmp querier last-member-interval 10
ip igmp querier max-response-time 100
ip mcast ttl-threshold 1
ip icmp unreachable
ip icmp redirects
ip mtu 1500
no ip netdirbcast
ip vrrp add 4 priority 130 interval 1000 preempt enable advertisement-ip 224.0.0.18 preempt-
delay 0 notify-ip 192.168.1.251 master-candidate 192.168.1.250 domain-id 4 domain-role
supervisor accept-mode enable
ip vrrp virtual-address add 4 192.168.1.254
no signal-contact 1 link-alarm
no ip pim operation
ip pim hello-interval 30
no ip pim sparse bsr-border
ip pim sparse dr-priority 1
ip pim sparse join-prune-interval 60
no ip dvmrp operation
ip dvmrp metric 1
no device-status link-alarm
no shutdown
name encodeurs
security-status no-link
exit

interface vlan/31
ip routing
ip address primary 172.20.0.250 255.255.0.0
no ip proxy-arp operation
no ip irdp operation
ip irdp address 224.0.0.1
ip irdp holdtime 1800
ip irdp maxadvertinterval 600
ip irdp minadvertinterval 450
ip irdp preference 0
```

```
ip ospf area-id 0.0.0.0
no ip ospf operation
ip ospf link-type broadcast
ip ospf priority 1
ip ospf transmit-delay 1
ip ospf retransmit-interval 5
ip ospf hello-interval 10
ip ospf dead-interval 40
ip ospf cost auto
no ip ospf mtu-ignore
ip ospf authentication type none
ip ospf authentication key-id 0
no ip ospf fast-hello
ip rip authentication type none
ip rip authentication key-id 0
ip rip send-version ripv2
ip rip receive-version both
no ip igmp operation
ip igmp querier query-interval 125
ip igmp version 3
ip igmp robustness 2
ip igmp querier last-member-interval 10
ip igmp querier max-response-time 100
ip mcast ttl-threshold 1
ip icmp unreachable
ip icmp redirects
ip mtu 1500
no ip netdirbcast
ip vrrp add 1 priority 130 interval 1000 preempt enable advertisement-ip 224.0.0.18 preempt-
delay 0 notify-ip 172.20.0.251 master-candidate 172.20.0.250 domain-id 1 domain-role
supervisor accept-mode enable
ip vrrp virtual-address add 1 172.20.0.254
no signal-contact 1 link-alarm
no ip pim operation
ip pim hello-interval 30
no ip pim sparse bsr-border
ip pim sparse dr-priority 1
ip pim sparse join-prune-interval 60
no ip dvmrp operation
ip dvmrp metric 1
```

```
no device-status link-alarm
no shutdown
name cameras
security-status no-link
exit

interface vlan/32
ip routing
ip address primary 192.168.32.250 255.255.255.0
no ip proxy-arp operation
no ip irdp operation
ip irdp address 224.0.0.1
ip irdp holdtime 1800
ip irdp maxadvertinterval 600
ip irdp minadvertinterval 450
ip irdp preference 0
ip ospf area-id 0.0.0.0
no ip ospf operation
ip ospf link-type broadcast
ip ospf priority 1
ip ospf transmit-delay 1
ip ospf retransmit-interval 5
ip ospf hello-interval 10
ip ospf dead-interval 40
ip ospf cost auto
no ip ospf mtu-ignore
ip ospf authentication type none
ip ospf authentication key-id 0
no ip ospf fast-hello
ip rip authentication type none
ip rip authentication key-id 0
ip rip send-version ripv2
ip rip receive-version both
no ip igmp operation
ip igmp querier query-interval 125
ip igmp version 3
ip igmp robustness 2
ip igmp querier last-member-interval 10
ip igmp querier max-response-time 100
ip mcast ttl-threshold 1
```

```
ip icmp unreachable
ip icmp redirects
ip mtu 1500
no ip netdirbcast
ip vrrp add 2 priority 130 interval 1000 preempt enable advertisement-ip 224.0.0.18 preempt-
delay 0 notify-ip 192.168.32.251 master-candidate 192.168.32.250 domain-id 2 domain-role
supervisor accept-mode enable
ip vrrp virtual-address add 2 192.168.32.254
no signal-contact 1 link-alarm
no ip pim operation
ip pim hello-interval 30
no ip pim sparse bsr-border
ip pim sparse dr-priority 1
ip pim sparse join-prune-interval 60
no ip dvmrp operation
ip dvmrp metric 1
no device-status link-alarm
no shutdown
name admin
security-status no-link
exit

interface vlan/33
ip routing
ip address primary 192.168.33.250 255.255.255.0
no ip proxy-arp operation
no ip irdp operation
ip irdp address 224.0.0.1
ip irdp holdtime 1800
ip irdp maxadvertinterval 600
ip irdp minadvertinterval 450
ip irdp preference 0
ip ospf area-id 0.0.0.0
no ip ospf operation
ip ospf link-type broadcast
ip ospf priority 1
ip ospf transmit-delay 1
ip ospf retransmit-interval 5
ip ospf hello-interval 10
ip ospf dead-interval 40
```

```
ip ospf cost auto
no ip ospf mtu-ignore
ip ospf authentication type none
ip ospf authentication key-id 0
no ip ospf fast-hello
ip rip authentication type none
ip rip authentication key-id 0
ip rip send-version ripv2
ip rip receive-version both
no ip igmp operation
ip igmp querier query-interval 125
ip igmp version 3
ip igmp robustness 2
ip igmp querier last-member-interval 10
ip igmp querier max-response-time 100
ip mcast ttl-threshold 1
ip icmp unreachable
ip icmp redirects
ip mtu 1500
no ip netdirbcast
ip vrrp add 3 priority 130 interval 1000 preempt enable advertisement-ip 224.0.0.18 preempt-
delay 0 notify-ip 192.168.33.251 master-candidate 192.168.33.250 domain-id 3 domain-role
supervisor accept-mode enable
ip vrrp virtual-address add 3 192.168.33.254
no signal-contact 1 link-alarm
no ip pim operation
ip pim hello-interval 30
no ip pim sparse bsr-border
ip pim sparse dr-priority 1
ip pim sparse join-prune-interval 60
no ip dvmrp operation
ip dvmrp metric 1
no device-status link-alarm
no shutdown
name video
security-status no-link
exit

interface vlan/39
ip routing
```

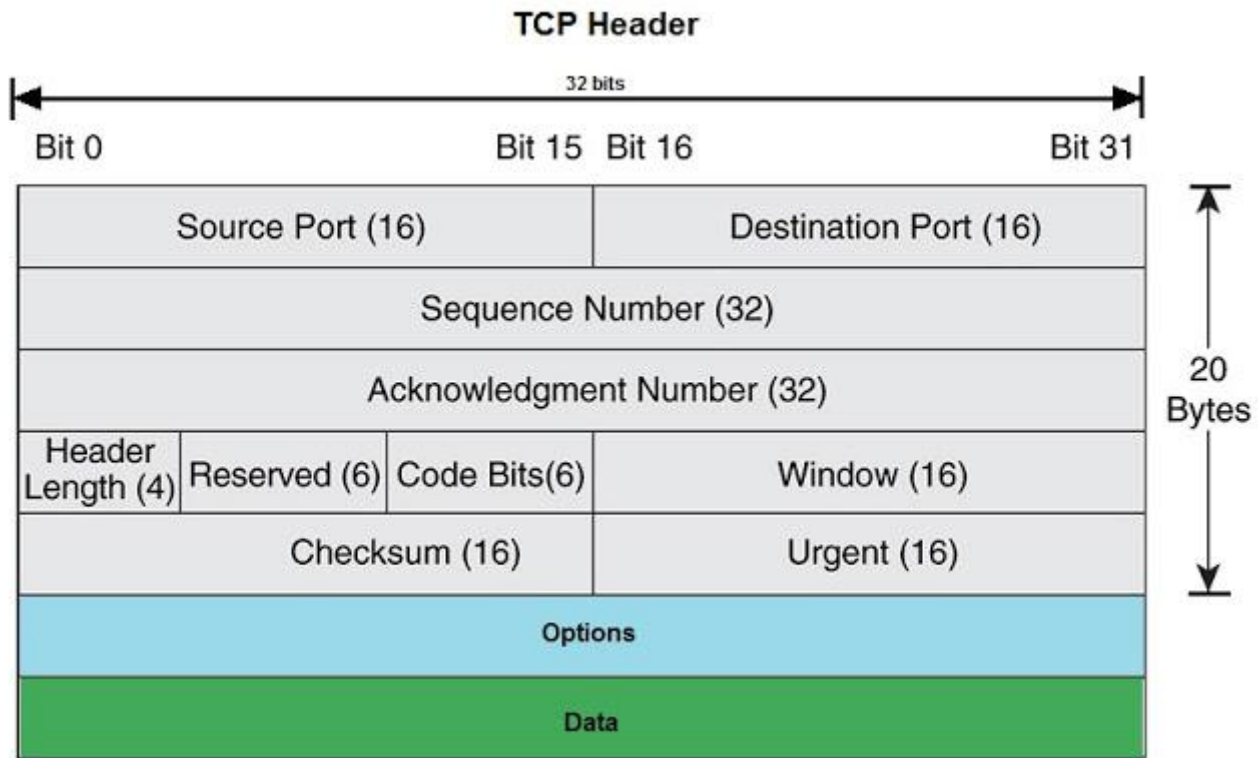
```
ip address primary 192.168.39.250 255.255.255.0
no ip proxy-arp operation
no ip irdp operation
ip irdp address 224.0.0.1
ip irdp holdtime 1800
ip irdp maxadvertinterval 600
ip irdp minadvertinterval 450
ip irdp preference 0
ip ospf area-id 0.0.0.0
no ip ospf operation
ip ospf link-type broadcast
ip ospf priority 1
ip ospf transmit-delay 1
ip ospf retransmit-interval 5
ip ospf hello-interval 10
ip ospf dead-interval 40
ip ospf cost auto
no ip ospf mtu-ignore
ip ospf authentication type none
ip ospf authentication key-id 0
no ip ospf fast-hello
ip rip authentication type none
ip rip authentication key-id 0
ip rip send-version ripv2
ip rip receive-version both
no ip igmp operation
ip igmp querier query-interval 125
ip igmp version 3
ip igmp robustness 2
ip igmp querier last-member-interval 10
ip igmp querier max-response-time 100
ip mcast ttl-threshold 1
ip icmp unreachable
ip icmp redirects
ip mtu 1500
no ip netdirbcast
ip vrrp add 6 priority 130 interval 1000 preempt enable advertisement-ip 224.0.0.18 preempt-
delay 0 notify-ip 192.168.39.251 master-candidate 192.168.39.250 domain-id 6 domain-role
member accept-mode enable
ip vrrp virtual-address add 6 192.168.39.254
```

```
no signal-contact 1 link-alarm
no ip pim operation
ip pim hello-interval 30
no ip pim sparse bsr-border
ip pim sparse dr-priority 1
ip pim sparse join-prune-interval 60
no ip dvmrp operation
ip dvmrp metric 1
no device-status link-alarm
no shutdown
name interco
no security-status no-link
exit
```

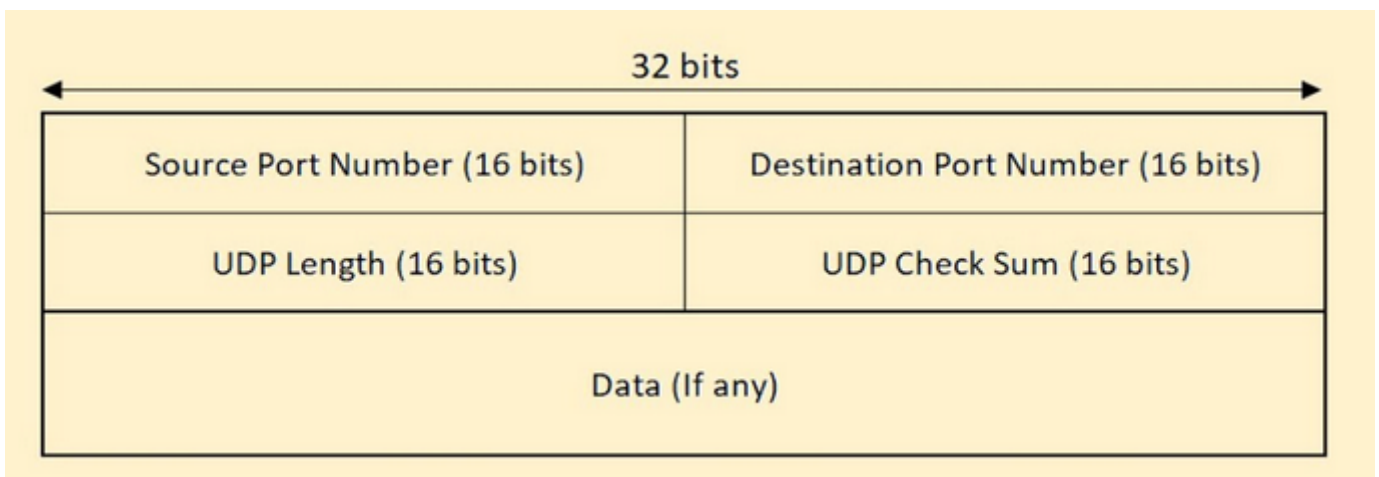
```
users add "AdminBPNL"
users add "AdminBYTES"
users add "snmpBPNL"
users delete admin
users access-role AdminBPNL administrator
users access-role AdminBYTES administrator
users access-role snmpBPNL guest
users lock-status AdminBPNL unlock
users lock-status AdminBYTES unlock
users lock-status snmpBPNL unlock
! users password AdminBPNL "*****"
! users password AdminBYTES "*****"
! users password snmpBPNL "*****"
users password-policy-check AdminBPNL disable
users password-policy-check AdminBYTES disable
users password-policy-check snmpBPNL disable
users snmpv3 authentication AdminBPNL sha1
users snmpv3 authentication AdminBYTES sha1
users snmpv3 authentication snmpBPNL sha1
users snmpv3 encryption AdminBPNL aescfb128
users snmpv3 encryption AdminBYTES aescfb128
users snmpv3 encryption snmpBPNL aescfb128
users enable AdminBPNL
users enable AdminBYTES
users enable snmpBPNL
exit
```


Réseau - Entêtes des trames

TCP



UDP



IP

