

Loopback-detection SNR

- LBD?
- LBD
- block

Loopback-detection – ,

LBD?

1. loopback-detection (. 3)
2. . Loopback-detection : Ethernet - [802.1q -] – loopback-detection Data. :
 - Source MAC-address (Ethernet-). CPU MAC-address
 - Destination MAC-address (Ethernet-). 2 , Destination MAC-address multicast MAC-address (01:80:c2:00:00:05), – MAC-adress (f8:f0:82:10:00:03 - - Nagtech),
 - VLAN, (, , trunk, native/access vlan,), VLAN " "
 - VLAN, , .. loopback-detection Data, VLAN " "
3. , , ,
4. Ethernet :
 - EtherType 0xdc09
 - MAC-address Source MAC-address
 - loopback-detection, :
 -
 -
5. :
 - 1)
 - 2) , , "loopback-detection control (block | shutdown)" : shutdown block



, debug' ("debug loopback-detection" + "ter mon") :
Port Ethernet1/0/17 a loopback-detection packet, tag is 100, inner-vlan is 200 (- 100, - 200)

6. , , , , :
) shutdown, control-recovery timeout



control-recovery timeout 0,

7.) block, block
2

LBD

—:

1. **loopback-detection control-recovery timeout <timeout 0-3600s>**
, , loopback-detection , , shutdown. . Global ,
2. **loopback-detection interval-time <Loopback interval time range 5-300s> <No loopback interval time range 1-30s>**
, . loopback-detection. :
 - **Loopback interval time range 5-300s** - , loopback-detection block , block. control-recovery timeout, block
 - **No loopback interval time range 1-30s** - , loopback-detection, .. loopback-detection,
3. **loopback-detection trap enable**
SNMP Trap loopback-detection. - SNMP Trap OID 1.3.6.1.4.1.40418.7.101.112.1

—:



! .

1. **loopback-detection control (block | shutdown)**
:
block - VLAN, , , (VLAN, . " block")
shutdown - shutdown



loopback-detection , . VLAN (3) , .. , loopback-detection control.

2. loopback-detection send packet number <Detection packet number 1-10>

loopback-detection, . 1 - 2 LDB-, 2 - 4 LBD- ..

3. loopback-detection specified-vlan <VLAN ID>

VLAN, loopback-detection. .. loopback-detection VLAN.

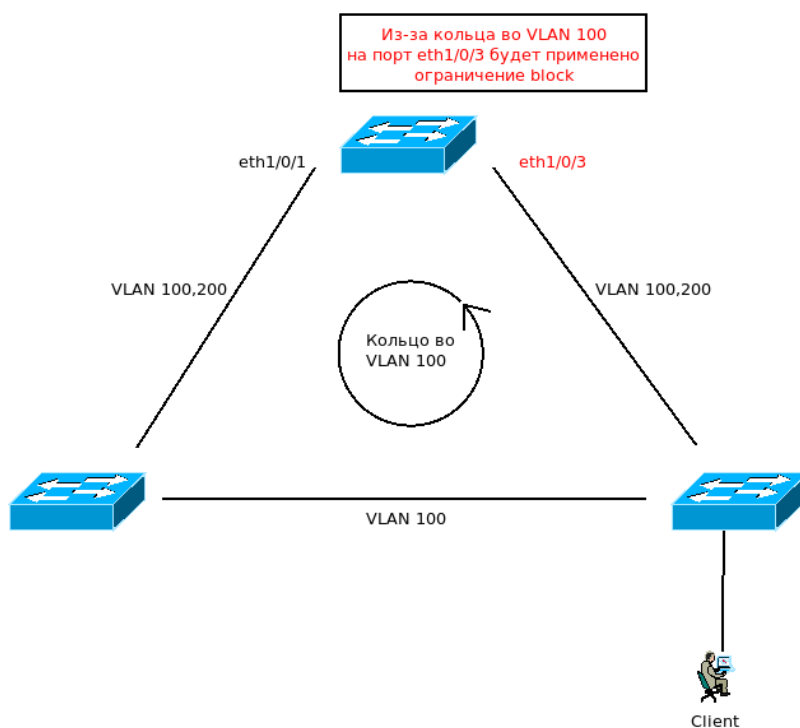
block

, , loopback-detection block, VLAN N, VLAN'. ?

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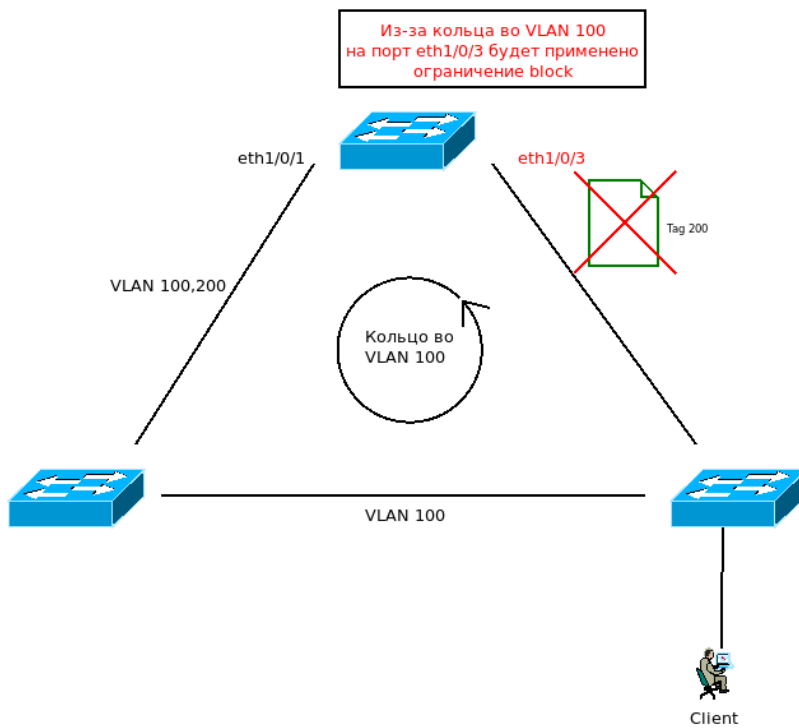
1. VLAN' MST Instance:
spanning-tree mst configuration
instance <instance num 1> vlan <VID 1>
instance <instance num 2> vlan <VID 2>
- 2.

:



- eth1/0/1 eth1/0/3 trunk
 - trunk VLAN 100 200
 - loopback-detection VLAN 100 200 block:
- ```
Interface Ethernet1/0/1
loopback-detection specified-vlan 100,200
loopback-detection control block
...
Interface Ethernet1/0/3
loopback-detection specified-vlan 100,200
loopback-detection control block
...
```
- eth1/0/3 loopback-detection VLAN 100
  - eth1/0/3 block

, VLAN 100, VLAN 200. VLAN 200



- VLAN mst instance:  
spanning-tree mst configuration  
Instance 0 vlan <VLAN>  
instance 1 vlan 100  
instance 2 vlan 200

- , loopback-detection, VLAN, ,

