

Eltex SLA (Service Level Agreement)

Eltex SLA (Service Level Agreement) – IP Eltex ESR, SLA.

SLA - , , :

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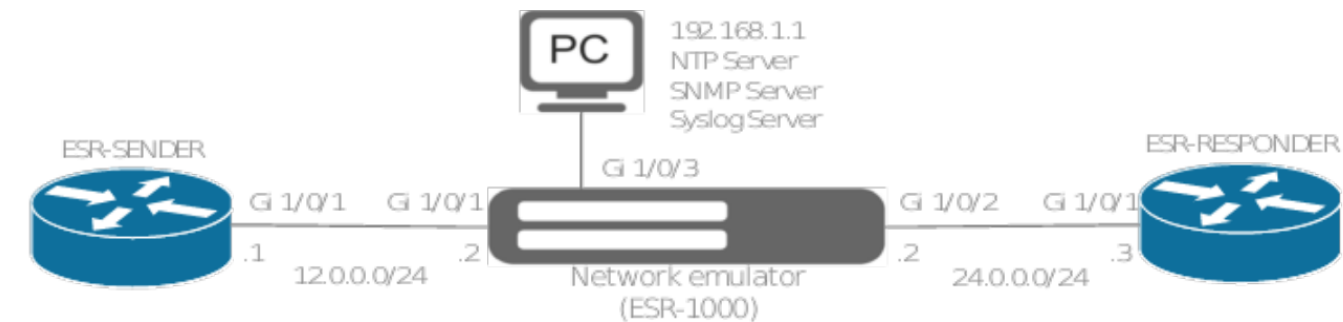
IP SLA :

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-

:

- sender ();
- responder ().

:



ESR-SENDER

```
interface gigabitethernet 1/0/1
  ip firewall disable
  ip address 12.0.0.1/24
exit

ip route 0.0.0.0/0 12.0.0.2

clock timezone gmt +7
ntp enable
ntp server 192.168.1.1
  minpoll 4
exit

ip sla logging status
ip sla logging error
ip sla logging jitter
ip sla logging delay
ip sla logging losses
ip sla
ip sla test 1
  udp-jitter 24.0.0.3 20001 source-ip 12.0.0.1 num-packets 100 interval 20
  frequency 25
  packet-size 64
  dscp 30
  timeout 4000
  thresholds losses high 15
  thresholds losses forward high 5
  thresholds losses reverse high 10
  thresholds jitter forward high 7
  thresholds jitter reverse high 15
  thresholds delay high 150
  thresholds delay forward high 100
  thresholds delay reverse high 50
  enable
exit
ip sla schedule 1 life forever start-time now
```

ESR-RESPONDER

```
interface gigabitethernet 1/0/1
  ip firewall disable
  ip address 24.0.0.3/24
  ip sla responder eltex
exit

ip route 0.0.0.0/0 24.0.0.2

clock timezone gmt +7
ntp enable
ntp server 192.168.1.1
  minpoll 4
exit
```

```

ESR-SENDER# show ip sla test statistics 1
Test number: 1
Test status: Successful
Transmitted packets: 100
Lost packets: 0 (0.00%)
Lost packets in forward direction: 0 (0.00%)
Lost packets in reverse direction: 0 (0.00%)
One-way delay forward min/avg/max: 0.07/0.08/0.11 milliseconds
One-way delay reverse min/avg/max: 0.07/0.08/0.11 milliseconds
One-way jitter forward: 0.01 milliseconds
One-way jitter reverse: 0.01 milliseconds
Two-way delay min/avg/max: 0.14/0.16/0.22 milliseconds
Duplicate packets: 0
Out of sequence packets in forward direction: 0
Out of sequence packets in reverse direction: 0

```

1) SYSLOG- SYSLOG-

```

syslog host 192.168.1.1 debug udp 514
syslog host SYSLOG_COLLECTOR
  remote-address 192.168.1.1
  severity debug
exit

```

SYSLOG:

```

YYYY-DD-MMTHH:MM:SS+GMT %IP_SLA-I-JITTER: (test 1) One-way jitter in reverse direction is high: 17.32ms > 15ms
YYYY-DD-MMTHH:MM:SS+GMT %IP_SLA-I-JITTER: (test 1) One-way jitter in forward direction is high: 10.12ms > 7ms
YYYY-DD-MMTHH:MM:SS+GMT %IP_SLA-I-JITTER: (test 1) One-way jitter is high: 23ms > 10ms
YYYY-DD-MMTHH:MM:SS+GMT %IP_SLA-I-JITTER: (test 1) One-way jitter in forward direction is OK: 1.24ms > 7ms

YYYY-DD-MMTHH:MM:SS+GMT %IP_SLA-I-LOSSES: (test 1) One-way losses in reverse direction are high: 14 > 10
YYYY-DD-MMTHH:MM:SS+GMT %IP_SLA-I-LOSSES: (test 1) One-way losses in forward direction are high: 8 > 5
YYYY-DD-MMTHH:MM:SS+GMT %IP_SLA-I-LOSSES: (test 1) Total losses are high: 16 > 15

```

2) SNMP.

IP SLA MIB-OID:

- ELTEX-ESR-MIB.mib
- ELTEX-ESR-IPSLA-MIB.mib

```

snmp-
server

snmp-server community PUBLIC
rw

snmp-server host 192.168.1.1

```

SNMP:

Name/OID: eltEsripSlaStatTestTransmittedPackets.1; Value (Gauge): 100
Name/OID: eltEsripSlaStatTestLostPackets.1; Value (Gauge): 8
Name/OID: eltEsripSlaStatTestLostPacketsForward.1; Value (Gauge): 4
Name/OID: eltEsripSlaStatTestLostPacketsReverse.1; Value (Gauge): 4
Name/OID: eltEsripSlaStatTestOneWayDelayForwardMin.1; Value (Gauge): 29
Name/OID: eltEsripSlaStatTestOneWayDelayForwardMax.1; Value (Gauge): 52
Name/OID: eltEsripSlaStatTestOneWayDelayForwardAvg.1; Value (Gauge): 72
Name/OID: eltEsripSlaStatTestOneWayDelayReverseMin.1; Value (Gauge): 29
Name/OID: eltEsripSlaStatTestOneWayDelayReverseMax.1; Value (Gauge): 52
Name/OID: eltEsripSlaStatTestOneWayDelayReverseAvg.1; Value (Gauge): 72
Name/OID: eltEsripSlaStatTestOneWayJitterForwardAvg.1; Value (Gauge): 12
Name/OID: eltEsripSlaStatTestOneWayJitterReverseAvg.1; Value (Gauge): 12
Name/OID: eltEsripSlaStatTestTwoWayDelayMin.1; Value (Gauge): 58
Name/OID: eltEsripSlaStatTestTwoWayDelayMax.1; Value (Gauge): 104
Name/OID: eltEsripSlaStatTestTwoWayDelayAvg.1; Value (Gauge): 145
Name/OID: eltEsripSlaStatTestDuplicatePackets.1; Value (Gauge): 0
Name/OID: eltEsripSlaStatTestOutOfSequenceForward.1; Value (Gauge): 0
Name/OID: eltEsripSlaStatTestOutOfSequenceReverse.1; Value (Gauge): 0

3) SYSLOG SNMP-Traps.

```
snmp-server host
192.168.1.1

    source-address
12.0.0.1

exit

snmp-server enable traps syslog
```