



# FS S3410 Series LACP Gigabit Ethernet L2+ Fully Managed Pro User Manual

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## LACP Trouble Shooting LACP TROUBLESHOOTING

Models: S3410 Series; S3910 Series; S5860 Series

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### Fault Phenomenon

Port aggregation is unsuccessful.

### Possible Cause of Failure

1. physical link failure.
2. LACP negotiation was unsuccessful.
3. There is no change in the packet flow and the matching part of the balance factor.
4. The duplex, rate, and transmission medium at both ends are inconsistent.

## Processing Steps

### Check Whether There is a Link Failure On the Aggregation Member Port

FS#show interface status //Check whether the port status of the aggregation member port is up.  
FS#show interfaces status

Interface	Status	Vlan	Duplex	Speed	Type
TenGigabitEthernet 0/18	down	1	Unknown	Unknown	fiber
TenGigabitEthernet 0/19	up	1	Full	10G	fiber
TenGigabitEthernet 0/20	up	1	Full	10G	fiber

If the member port is down, check the physical port connection. Make sure the member is up. If conditions permit, replace other member ports, confirm whether the aggregation member port can be up, and exclude the member port from physical failure.

### Check the Port Properties of Both Devices

Use the show interface XX command to view the port's media properties, focusing on the port's speed, flow control, and media type, and it needs to be configured in full-duplex mode to eliminate the problem that the port cannot be up

FS#show interfaces ten gigabit ethernet 0/19

Index(dec):19 (hex):13

TenGigabitEthernet 0/19 is UP , line protocol is UP

Hardware is TenGigabitEthernet, address is 300d.9e43.38de (bia 300d.9e43.38de)

Interface address is: no ip address

Interface IPv6 address is:

No IPv6 address

MTU 1500 bytes, BW 10000000 Kbit

Encapsulation protocol is Ethernet-II, loopback not set

Keepalive interval is 10 sec, set

Carrier delay is 2 sec

Ethernet attributes:

Last link-state change time: 2020-07-15 10:10:35

Time duration since last link-state change: 0 days, 0 hours, 12 minutes, 29 seconds

Priority is 0

Medium-type is Fiber

Admin duplex mode is AUTO, oper duplex is Full

Admin speed is AUTO, oper speed is 10G

Flow control admin status is OFF, flow control oper status is OFF

Admin negotiation mode is OFF, oper negotiation state is OFF

Storm Control: Broadcast is OFF, Multicast is OFF, Unicast is OFF

Reload is 1/255, Txload is 1/255

Input peak rate: 205 bits/sec, at 2020-07-15 10:11:45

Output peak rate: 304 bits/sec, at 2020-07-15 10:11:45

10 seconds input rate 0 bits/sec, 0 packets/sec

10 seconds output rate 0 bits/sec, 0 packets/sec  
 29 packets input, 6616 bytes, 0 no buffer, 0 dropped  
 Received 1 broadcasts, 0 runts, 0 giants  
 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 abort  
 52 packets output, 9512 bytes, 0 underruns, 0 no buffer, 0 dropped  
 0 output errors, 0 collisions, 0 interface resets

#### Check Whether the Link Aggregation Member Ports and Link Aggregation Groups Are Normal

State: Member port negotiation status, and indicates that the negotiation is successful, susp indicates that the negotiation fails, and down indicates that the link status of the interface is down

FS#show lacp summary 1

System Id:32768, 300d.9e7a.74c0

Flags: S – Device is requesting Slow LACPDUs F – Device is requesting Fast LACPDUs.

A – The device is in active mode.

P – The device is in passive mode.

Aggregate port 1:

Local information:

			LACP port	Oper	Port	Port
Port	Flags	State	Priority	Key	Number	State
Te0/19	SA	bndl	32768	0x1	0x13	0x3d
Te0/20	SA	bndl	32768	0x1	0x14	0x3d

Partner information:

		LACP port		Oper	Port	Port
Port	Flag	Priority	Dev ID	Key	Number	State
Te0/19	SA	32768	300d.9e43.38de	0x1	0x13	0x3d
Te0/20	SA	32768	300d.9e43.38de	0x1	0x14	0x3d

FS#show aggregatePort 1 summary

Aggregate Port	MacPorts	switch port Mode	Load balance	Ports
Ag1	8	Enabled	ACCESS enhanced profile	Te0/19 ,Te0/20

AggregatePort :AP Interface name

MacPorts: AP The maximum number of interfaces that can be supported.

Switchport: AP Whether the interface is a Layer 2 port, Enabled indicates a Layer 2 port, and Disabled indicates not a Layer 2 port.

Mode: AP The attributes of the Layer 2 interface of the interface, including ACCESS, TRUNK, TUNNEL, HYBRID, UPLINK, HOST, and PROMIS, when the AP interface is not a Layer 2 interface, the display is empty. Load

balance: AP Balance mode of the interface.

Ports: AP Balance mode of the interface.

#### Check the Aggregation Port Configuration is Correct

FS#show running-config interface TenGigabitEthernet 0/19

Building configuration...  
Current configuration: 62 bytes  
interface TenGigabitEthernet 0/19  
port-group 1 mode active  
There are two LACP port modes: Active and Passive

#### **Check Whether the Configuration Of The Peer Device is Correct**

If the LACP mode of both ports of the device is the passive mode, the aggregation relationship cannot be established. Both ends are in active mode or one side is in active mode and one is in passive mode.

#### **Seek FS Technical Support**

If the fault cannot be solved after the above steps are checked, please collect the following fault information and contact FS technical support for assistance.

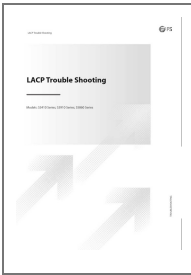
show run  
show version  
show version slot  
show lacp summary X  
show lacp summary X  
show logging



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#### **Documents / Resources**



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