



# FS S3410 Series 24-Port Gigabit Ethernet L2+ PoE+ Switch Instruction Manual

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**FS S3410 Series 24-Port Gigabit Ethernet L2+ PoE+ Switch**



## 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
- The 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
- The encapsulation protocol is Ethernet-II, loopback is not set
- The 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
- Rxload 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, bndl 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 – Device is in active mode.                      P – Device is in passive mode.

Aggregate port 1:

Local information:

LACP port iority	Oper Key	Port Number	Port State	Port Port	Flags	State	Pr
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Te0/19 SA  Te0/20 SA  Partner information:		bndl bndl   LACP port Priority	32768		0x1 0x1	0x13	0x3d 0x3d   Port State
			32768			0x14	
			Port Flags			Dev ID	
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 MaxPorts SwitchPort 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 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.

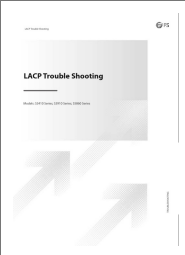
- show run
- show version
- show version slot
- show lacp summary X
- show lacp summary X
- show logging



- <https://www.fs.com>

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## Documents / Resources

	<p><a href="#">FS S3410 Series 24-Port Gigabit Ethernet L2+ PoE+ Switch</a> [pdf] Instruction Manual S3410 Series 24-Port Gigabit Ethernet L2 PoE Switch, S3410 Series, 24-Port Gigabit Ethernet L2 PoE Switch, Gigabit Ethernet L2 PoE Switch, Ethernet L2 PoE Switch, Switch</p>
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## References

- [FS.com - Data Center, Enterprise, Telecom](https://www.fs.com)