



**Test Report TR S2510PoE-DC**  
*Firmware Version build 71585*

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## **1. Introduction**

**This document is known for problems and solutions for TECHROUTES TR S2510PoE-DC Series switch.**

## **2. About This Test Report**

**This Test Report provides information for**

**A. To check support of Link Aggregation Control Protocol - IEEE802.3ad.**

**Present software version- Version 2.2.0C Build 71585;**

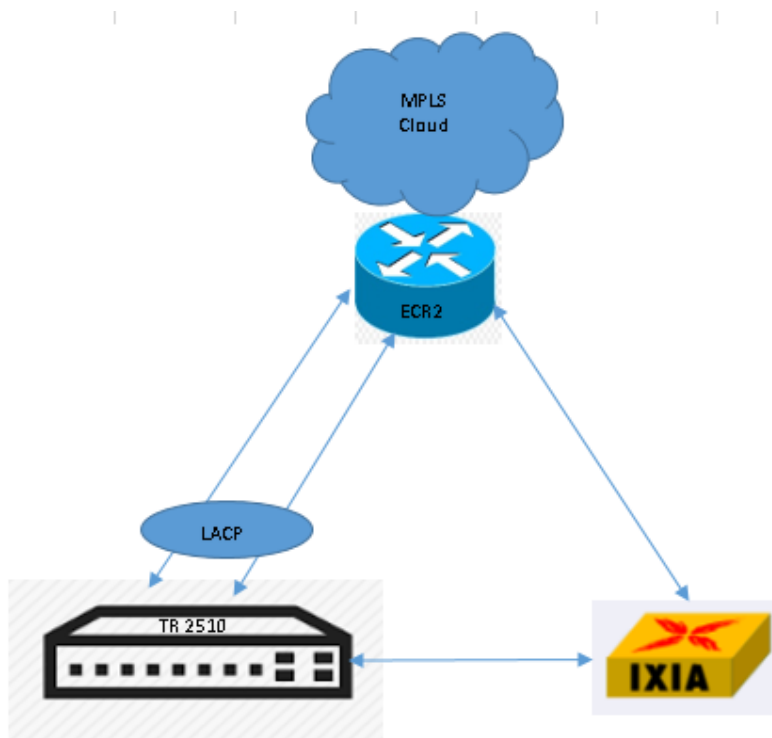
**Present hardware version- V1.0;**

### 3. Test Report

#### A. RJIL-IP-QA-DS-SYS-011

1. To check support of Link Aggregation Control Protocol - IEEE802.3ad.

2. Test Set up : Switch , ECR1, ECR2, IXIA





### **3. Switch Configuration :**

```
interface Port-aggregator1
```

```
switchport mode trunk
```

```
!
```

```
interface GigaEthernet0/3
```

```
aggregator-group 1 mode lacp
```

```
switchport mode trunk
```

```
!
```

```
interface GigaEthernet0/4
```

```
aggregator-group 1 mode lacp
```

```
switchport mode trunk
```

### **4. Procedure:**

- 1. Connect switch to IXIA and ECR2**
- 2. Connect two physical links from switch to ECR2**
- 3. Generate traffic from IXIA and is forwarded to switch and ECR2**
- 4. Traffic should be bidirectional**
- 5. Configure LACP on switch**

### **5. Test Result :**

```
Switch_config# show interface port-aggregator 1
```

```
Port-aggregator1 is up, line protocol is up
```



**lindex is 65**

**Hardware is PortAggregator, Address is 5ccc.ff19.2e5a(5ccc.ff19.2e5a)**

**MTU 1500 bytes, BW 2000000 kbit, DLY 2000 usec**

**Encapsulation ARPA**

**Members in this Aggregator: g0/3 g0/4**

**5 minutes input rate 1279 bits/sec, 0 packets/sec**

**5 minutes output rate 1108 bits/sec, 0 packets/sec**

**Received 5916 packets, 460233 bytes**

**1530 broadcasts, 2381 multicasts**

**441 discard, 2 error, 0 PAUSE**

**2 align, 2 FCS, 2 symbol, 2 fragment**

**2 jabber, 2 oversize, 2 undersize**

**Transmitted 5623 packets, 425855 bytes**

**1354 broadcasts, 2470 multicasts**

**2 discard, 0 error, 0 PAUSE**

**0 collision, 144 indisc, 0 deferred**

**0 single, 0 multiple, 0 excessive, 0 late**



Switch\_config#show aggregator-group 1 brief

### Aggregator-group brief infomation

Group: 1

System ID : 32768 5CCC.FF19.2E56 Partner : 32768 00E0.0F45.6BF4

Group ID : 32768 5CCC.FF19.2E5A state : lineUp

Max Ports : 8 ports : 2

Flags: D - down A - Use In port-aggregator

U - Up I - Not In port-aggregator

d - default

g0/4(UA) g0/3(UA)

Traffic send by test device, no packet loss

The screenshot displays the Spirent TestCenter interface. The main window is titled 'StreamBlock Editor - Port //11/5 : StreamBlock 11'. It shows a configuration for a stream block with the following parameters:

- Scheduling Mode: Port Based
- Bandwidth Utilization (%): 100
- Duration Mode: Continuous
- StreamBlock 11 configuration:

  - Destination MAC: 00:00:01:00:00:01
  - MAC Modifier: Count=999;Step=00:00:00:00:00:01
  - Source MAC: 00:10:94:00:00:02
  - MAC Modifier: Count=1000;Step=00:00:00:00:00:01
  - EtherType (hex): <auto> Internet IP
  - IPv4 Header: ToS/Diffserv: tos (0x00); Total length (int): <auto> calculated; Time to live (int): 255; Protocol (int): <auto> Experimental; Source: 192.168.1.2

Below the configuration, there is a table showing 'Port Traffic and Counters > Basic Traffic Results'.

Port Name	r Rate (fps)	Generator Rate (Bps)	Generator Rate (bps)	Generator Sig Rate (fps)	Rx: Sig Rate (fps)
Port //11/5	108,108,109	854,854,872	844,595	0	0
Port //11/6	0	0	0	0	422,297
Port //11/7	0	0	0	0	422,298
Port //11/8	0	0	0	0	0

