

## 知 How to Resolve the ARP Learning Issue after Using the AM Function on S7500 Switch

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#### I. Description

The Release 31XX series support AM user-bind function, which may allow the administrator bind the port, IP address and MAC address together. However, when we use the AM function, the hosts connecting to the relevant port cannot learn the ARP of gateway. Therefore, they can not access the network.

#### II. Analysis

This issue is caused by two ACL that is configured by the system after AM function is used. The first ACL is to deny all the packets passing through the port. The other ACL is to permit certain packets to pass through. However, the ARP packet is not permitted. Therefore, the hosts connected to the port cannot get the ARP of the gateway.

#### III. Resolution

To resolve the issue, we may add one more ACL to permit ARP packets passing through the port.

```
[7506]display acl config 4001
```

```
Link ACL 4001, 1 rule,
```

```
rule 0 permit arp ingress any egress any
```

After define the ACL rule, apply it in the relevant port.

```
[7506]dis cu int g6/0/1
```

```
#
```

```
interface GigabitEthernet6/0/1
```

```
am user-bind ip-addr 1.1.1.1 mac-addr 0000-0000-0001
```

```
qos
```

```
packet-filter inbound user-group 4001 rule 0 system-index 3
```