

RDK failed to register to genieACS in my environment

Hello,

I have a GenieACS which can be registered by other devices.

However, I've tried 2 RDK versions with no success.

My RDK versions, device settings and packets are as below:

RDK Version:

1. RDK-B_2019Q3
2. RDK-B_2021Q3

Device Settings:

```
dmcli eRT setv Device.DeviceInfo.X_RDKCENTRAL-COM_Syndication.TR69CertLocation string "/etc/cacert.pem" # This file does not exist, does it matter?
```

```
dmcli eRT setv Device.ManagementServer.URL string http://192.168.10.95:7547
```

```
dmcli eRT setv Device.ManagementServer.Username string cwpmp
```

```
dmcli eRT setv Device.ManagementServer.Password string cwpmp
```

```
dmcli eRT setv Device.ManagementServer.PeriodicInformEnable bool true
```

```
dmcli eRT setv Device.ManagementServer.PeriodicInformInterval uint 15
```

```
dmcli eRT setv Device.ManagementServer.ConnectionRequestUsername string admin
```

```
dmcli eRT setv Device.ManagementServer.ConnectionRequestPassword string admin
```

```
dmcli eRT setv Device.ManagementServer.X_CISCO_COM_ConnectionRequestURLPort string 7547
```

```
dmcli eRT setv Device.ManagementServer.X_CISCO_COM_ConnectionRequestURLPath string tr069
```

```
dmcli eRT setv Device.ManagementServer.EnableCWMP bool true
```

CcspTr069PaSsp was active and listening to port 7547:

```
root@brcm93390smwv2:~# netstat -lptnu | grep 7547
tcp        0      0 0.0.0.0:7547          0.0.0.0:*            LISTEN      20817/CcspTr069PaSs
```

Packets:

No.	Time	Source	Destination	Protocol	Length	Info
665	10.802293	192.168.10.45	192.168.10.95	TCP	74	41487 → 7547 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=1387430 TSecr=0 WS=128
666	10.802297	192.168.10.95	192.168.10.45	TCP	74	7547 → 41487 [SYN, ACK] Seq=0 Ack=1 Win=65160 Len=0 MSS=1460 SACK_PERM=1 TSval=1578943204 TSecr=138...
667	10.810193	192.168.10.95	192.168.10.45	TCP	66	[TCP ACKed unseen segment] 7547 → 41487 [ACK] Seq=1 Ack=128 Win=65152 Len=0 TSval=1578943206 TSecr=...
668	10.810198	192.168.10.95	192.168.10.45	TCP	66	[TCP ACKed unseen segment] 7547 → 41487 [ACK] Seq=1 Ack=1576 Win=64128 Len=0 TSval=1578943208 TSecr=...
669	10.810200	192.168.10.95	192.168.10.45	TCP	66	[TCP ACKed unseen segment] 7547 → 41487 [ACK] Seq=1 Ack=2504 Win=64128 Len=0 TSval=1578943210 TSecr=...
670	10.814282	192.168.10.95	192.168.10.45	HTTP	292	[TCP ACKed unseen segment] HTTP/1.1 401 Unauthorized
673	10.970188	192.168.10.45	192.168.10.95	TCP	66	[TCP Previous segment not captured] 41487 → 7547 [FIN, ACK] Seq=2504 Ack=227 Win=30336 Len=0 TSval=...
674	10.970192	192.168.10.95	192.168.10.45	TCP	66	[TCP ACKed unseen segment] 7547 → 41487 [FIN, ACK] Seq=227 Ack=2505 Win=64128 Len=0 TSval=157894337...
675	10.972530	192.168.10.45	192.168.10.95	TCP	66	41487 → 7547 [ACK] Seq=2505 Ack=228 Win=30336 Len=0 TSval=1387599 TSecr=1578943371
2560	22.656494	192.168.10.45	192.168.10.95	TCP	74	55705 → 7547 [SYN] Seq=0 Win=29200 Len=0 MSS=1460 SACK_PERM=1 TSval=1399283 TSecr=0 WS=128
2561	22.656496	192.168.10.95	192.168.10.45	TCP	74	7547 → 55705 [SYN, ACK] Seq=0 Ack=1 Win=65160 Len=0 MSS=1460 SACK_PERM=1 TSval=1578955058 TSecr=139...
2562	22.667531	192.168.10.95	192.168.10.45	TCP	66	[TCP ACKed unseen segment] 7547 → 55705 [ACK] Seq=1 Ack=128 Win=65152 Len=0 TSval=1578955060 TSecr=...
2563	22.667534	192.168.10.95	192.168.10.45	TCP	66	[TCP ACKed unseen segment] 7547 → 55705 [ACK] Seq=1 Ack=1576 Win=64128 Len=0 TSval=1578955061 TSecr=...
2564	22.667535	192.168.10.95	192.168.10.45	TCP	66	[TCP ACKed unseen segment] 7547 → 55705 [ACK] Seq=1 Ack=2504 Win=64128 Len=0 TSval=1578955063 TSecr=...
2565	22.667707	192.168.10.95	192.168.10.45	HTTP	292	[TCP ACKed unseen segment] HTTP/1.1 401 Unauthorized
2567	22.845418	192.168.10.45	192.168.10.95	TCP	66	[TCP Previous segment not captured] 55705 → 7547 [FIN, ACK] Seq=2504 Ack=227 Win=30336 Len=0 TSval=...
2568	22.845422	192.168.10.95	192.168.10.45	TCP	66	[TCP ACKed unseen segment] 7547 → 55705 [FIN, ACK] Seq=227 Ack=2505 Win=64128 Len=0 TSval=157895524...
2569	22.845423	192.168.10.45	192.168.10.95	TCP	66	55705 → 7547 [ACK] Seq=2505 Ack=228 Win=30336 Len=0 TSval=1399472 TSecr=1578955245

The DUT IP was 192.168.10.45 and the server IP was 192.168.10.95.

As you could see, the DUT was unable to recognize the "SYN, ACK" sent by the server.

Any suggestions?

Thanks in advance.