

RDK-B - GenieACS connection establishment failure

Hi Everyone,

My Raspberry Pi (tried with 3B and B+) with RDK-B (dunfell on Ubuntu 18.0) is not getting added under device list in GenieACS server(v1.2.9+). I have done the configuration as mentioned in <https://wiki.rdkcentral.com/display/RDK/TR-069+Support+for+RDKB+RPI+Reference+Platform#TR069SupportforRDKBRPIReferencePlatform-TestProcedure> but, my device does not get listed in genieACS.

Any suggestions?

Thanks in advance.

The following is the configuration I did on RPI.

```
root@RaspberryPi-Gateway:~# dmcli eRT getv Device.ManagementServer.EnableCWMP
CR component name is: eRT.com.cisco.spvtg.ccsp.CR
subsystem_prefix eRT.
getv from/to component(eRT.com.cisco.spvtg.ccsp.tr069pa): Device.ManagementServer.EnableCWMP
Execution succeed.
Parameter      1 name: Device.ManagementServer.EnableCWMP
                type:      bool,      value: false

(reverse-i-search)`dmcli': dmcli eRT getv Device.ManagementServer.EnableCWMP
root@RaspberryPi-Gateway:~# dmcli eRT getv Device.ManagementServer.URL
CR component name is: eRT.com.cisco.spvtg.ccsp.CR
subsystem_prefix eRT.
getv from/to component(eRT.com.cisco.spvtg.ccsp.tr069pa): Device.ManagementServer.URL
Execution succeed.
Parameter      1 name: Device.ManagementServer.URL
                type:      string,     value: http://192.168.2.43:7547

root@RaspberryPi-Gateway:~# dmcli eRT getv Device.DeviceInfo.X_RDKCENTRAL-COM_Syndication.TR69CertLocation
CR component name is: eRT.com.cisco.spvtg.ccsp.CR
subsystem_prefix eRT.
getv from/to component(eRT.com.cisco.spvtg.ccsp.pam): Device.DeviceInfo.X_RDKCENTRAL-COM_Syndication.TR69CertLocation
Execution succeed.
Parameter      1 name: Device.DeviceInfo.X_RDKCENTRAL-COM_Syndication.TR69CertLocation
                type:      string,     value: /etc/cacert.pem

root@RaspberryPi-Gateway:~# ls /etc/cacert.pem
/etc/cacert.pem

root@RaspberryPi-Gateway:~# dmcli eRT getv Device.DeviceInfo.X_RDKCENTRAL-COM_RFC.Feature.AllowOpenPorts.Enable
CR component name is: eRT.com.cisco.spvtg.ccsp.CR
subsystem_prefix eRT.
getv from/to component(eRT.com.cisco.spvtg.ccsp.pam): Device.DeviceInfo.X_RDKCENTRAL-COM_RFC.Feature.AllowOpenPorts.Enable
Execution succeed.
Parameter      1 name: Device.DeviceInfo.X_RDKCENTRAL-COM_RFC.Feature.AllowOpenPorts.Enable
                type:      bool,      value: true

root@RaspberryPi-Gateway:~# netstat -lptnu | grep 7547
root@RaspberryPi-Gateway:~# dmcli eRT setv Device.ManagementServer.EnableCWMP bool true
CR component name is: eRT.com.cisco.spvtg.ccsp.CR
subsystem_prefix eRT.
setv from/to component(eRT.com.cisco.spvtg.ccsp.tr069pa): Device.ManagementServer.EnableCWMP
Execution succeed.

root@RaspberryPi-Gateway:~# netstat -lptnu | grep 7547
tcp        0      0 0.0.0.0:7547          0.0.0.0:*             LISTEN      1819/CcspTr069PaSsp
```

The error that I get in TR069 logs is as follows:

231116-05:41:09.945853 [mod=TR69, lvl=WARN] [tid=1859] blnitialContact switched to <TRUE> as MgmtCRPwldID was missing

231116-05:41:10.000479 [mod=TR69, lvl=INFO] [tid=1859] TCP server created successfully.

231116-05:41:10.000666 [mod=TR69, lvl=INFO] [tid=1859] Tcp host addr=0.0.0.0:7547

231116-05:41:10.001154 [mod=TR69, lvl=INFO] [tid=1859] CcspBaself_Register_Event_rbus : rbus_registerEvent called for event: parameterValueChangeSignal

231116-05:41:10.007724 [mod=TR69, lvl=WARN] [tid=1859] CcspManagementServer_GetURL -#- ManagementServerURLID_PSM: <http://192.168.2.43:7547>

231116-05:41:10.010424 [mod=TR69, lvl=WARN] [tid=1859] CcspManagementServer_GetURL -#- ManagementServerURLID_PSM: <http://192.168.2.43:7547>

231116-05:41:10.010656 [mod=TR69, lvl=INFO] [tid=1859] CcspCwmpCpecoStartCWMP - CPE reboots from fresh state, BOOTSTRAP Inform delays in 0 seconds.

231116-05:41:10.013232 [mod=TR69, lvl=INFO] [tid=1859] checkIfSystemReady(): ret 100, val 1

231116-05:41:20.013557 [mod=TR69, lvl=WARN] [tid=13327] CcspManagementServer_GetURL -#- ManagementServerURLID_PSM: <http://192.168.2.43:7547>

231116-05:41:20.015505 [mod=TR69, lvl=WARN] [tid=13327] blInitialContact switched to <TRUE> as MgmtCRPwldID was missing

231116-05:41:20.015936 [mod=TR69, lvl=WARN] [tid=13327] WARNING: failed to get Manufacturer/OUI/ProductClass/SerialNumber! 'informed' may be rejected by ACS!

231116-05:41:20.016433 [mod=TR69, lvl=WARN] [tid=13327] Discard: 0 BOOTSTRAP or No VALUE CHANGE event

231116-05:41:20.016649 [mod=TR69, lvl=WARN] [tid=13327] Try to reconnect the ACS after 5 seconds...RetryCount = 1, current time = 1700113280

231116-05:41:25.026722 [mod=TR69, lvl=WARN] [tid=13327] CcspManagementServer_GetURL -#- ManagementServerURLID_PSM: <http://192.168.2.43:7547>

231116-05:41:25.028874 [mod=TR69, lvl=WARN] [tid=13327] blInitialContact switched to <TRUE> as MgmtCRPwldID was missing

231116-05:41:25.029244 [mod=TR69, lvl=WARN] [tid=13327] WARNING: failed to get Manufacturer/OUI/ProductClass/SerialNumber! 'informed' may be rejected by ACS!

231116-05:41:25.029741 [mod=TR69, lvl=WARN] [tid=13327] Discard: 0 BOOTSTRAP or No VALUE CHANGE event.

231116-05:43:11.138005 [mod=TR69, lvl=DEBUG] [tid=13329] Start the session retry at time 1700113391...

231116-05:43:11.138287 [mod=TR69, lvl=DEBUG] [tid=13329] CcspCwmpoSignalSession - session state is set to <ConnectNow>.

231116-05:43:11.138554 [mod=TR69, lvl=DEBUG] [tid=13327] SessionState == connectNow. RetryCount = 4

231116-05:43:11.138658 [mod=TR69, lvl=WARN] [tid=13327] CcspManagementServer_GetURL -#- ManagementServerURLID_PSM: <http://192.168.2.43:7547>

231116-05:43:11.138838 [mod=TR69, lvl=DEBUG] [tid=13327] CcspCwmpoSignalSession - session state is set to <Connected>.

231116-05:43:11.138956 [mod=TR69, lvl=DEBUG] [tid=13327] SessionState == connected.

231116-05:43:11.141056 [mod=TR69, lvl=DEBUG] [tid=13327] InitialContact read from PSM is: <TRUE>

231116-05:43:11.141193 [mod=TR69, lvl=WARN] [tid=13327] blInitialContact switched to <TRUE> as MgmtCRPwldID was missing

231116-05:43:11.141326 [mod=TR69, lvl=DEBUG] [tid=13327] GPV - no FC owns namespace <Device.DeviceInfo.Manufacturer>

231116-05:43:11.141451 [mod=TR69, lvl=DEBUG] [tid=13327] GPV - no FC owns namespace <Device.DeviceInfo.ManufacturerOUI>

231116-05:43:11.141572 [mod=TR69, lvl=DEBUG] [tid=13327] GPV - no FC owns namespace <Device.DeviceInfo.ProductClass>

231116-05:43:11.141691 [mod=TR69, lvl=DEBUG] [tid=13327] GPV - no FC owns namespace <Device.DeviceInfo.SerialNumber>

231116-05:43:11.141810 [mod=TR69, lvl=DEBUG] [tid=13327] GPV - no FC owns namespace <Device.DeviceInfo.ProvisioningCode>

231116-05:43:11.141902 [mod=TR69, lvl=WARN] [tid=13327] WARNING: failed to get Manufacturer/OUI/ProductClass/SerialNumber! 'informed' may be rejected by ACS!

231116-05:43:11.142009 [mod=TR69, lvl=DEBUG] [tid=13327] LocalTime is 05:43:11, zone offset=0

231116-05:43:11.142104 [mod=TR69, lvl=DEBUG] [tid=13327] CcspCwmpsoInform -- Start to get the parameter values.

231116-05:43:11.142199 [mod=TR69, lvl=DEBUG] [tid=13327] CcspCwmpsoInform -- Start to get parameter value #0: Device.DeviceSummary.

231116-05:43:11.142306 [mod=TR69, lvl=DEBUG] [tid=13327] GPV - no FC owns namespace <Device.DeviceSummary>

231116-05:43:11.142406 [mod=TR69, lvl=DEBUG] [tid=13327] CcspCwmpsoInform -- Start to get parameter value #1: Device.DeviceInfo.HardwareVersion.

231116-05:43:11.142519 [mod=TR69, lvl=DEBUG] [tid=13327] GPV - no FC owns namespace <Device.DeviceInfo.HardwareVersion>

231116-05:43:11.142618 [mod=TR69, lvl=DEBUG] [tid=13327] CcspCwmpsoInform -- Start to get parameter value #2: Device.DeviceInfo.SoftwareVersion.

231116-05:43:11.142730 [mod=TR69, lvl=DEBUG] [tid=13327] GPV - no FC owns namespace <Device.DeviceInfo.SoftwareVersion>

231116-05:43:11.142828 [mod=TR69, lvl=DEBUG] [tid=13327] CcspCwmpsoInform -- Start to get parameter value #3: Device.DeviceInfo.ProvisioningCode.

231116-05:43:11.142940 [mod=TR69, lvl=DEBUG] [tid=13327] GPV - no FC owns namespace <Device.DeviceInfo.ProvisioningCode>

231116-05:43:11.143041 [mod=TR69, lvl=DEBUG] [tid=13327] CcspCwmpsoInform -- Start to get parameter value #4: Device.ManagementServer.ConnectionRequestURL.

231116-05:43:11.143155 [mod=TR69, lvl=DEBUG] [tid=13327] GPV - no FC owns namespace <Device.ManagementServer.ConnectionRequestURL>

231116-05:43:11.143252 [mod=TR69, lvl=WARN] [tid=13327] Discard: 0 BOOTSTRAP or No VALUE CHANGE event

231116-05:43:11.143338 [mod=TR69, lvl=DEBUG] [tid=13327] CcspCwmpoSignalSession - session state is set to <Timeout>.

231116-05:43:11.143433 [mod=TR69, lvl=DEBUG] [tid=13327] =====

TR069 SessionState == abort or timeout.

=====

Logs from PSM:

231116-05:41:09.943350 [mod=PSM, lvl=WARN] [tid=469] setParameterValues -- size:1, [eRT.com.cisco.spvtg.ccsp.tr069pa.Device.ManagementServer.EnableCWMP.Value](#): 1

231116-05:41:09.945200 [mod=PSM, lvl=DEBUG] [tid=469] getParameterValues -- *val_size:1, eRT.cwmp.initialContact: 1

231116-05:41:09.946676 [mod=PSM, lvl=WARN] [tid=469] ++++ getParameterValues Failed for eRT.cwmp.triggerCommand , returnStatus 4294967280
+++

231116-05:41:09.948182 [mod=PSM, lvl=WARN] [tid=469] ++++ getParameterValues Failed for eRT.cwmp.triggerCommandKey , returnStatus
4294967280 +++

231116-05:41:09.949414 [mod=PSM, lvl=WARN] [tid=469] ++++ getParameterValues Failed for eRT.cwmp.savedEvents , returnStatus 4294967280 +++

231116-05:41:10.006946 [mod=PSM, lvl=DEBUG] [tid=469] getParameterValues -- *val_size:1, [eRT.com.cisco.spvtg.ccsp.tr069pa.PmNotif.Device.ManagementServer.ConnectionRequestURL](#): 2