

TR-069 Get/Set Data Parameters Support through GenieACS Server for RDKB RPI Reference Platform

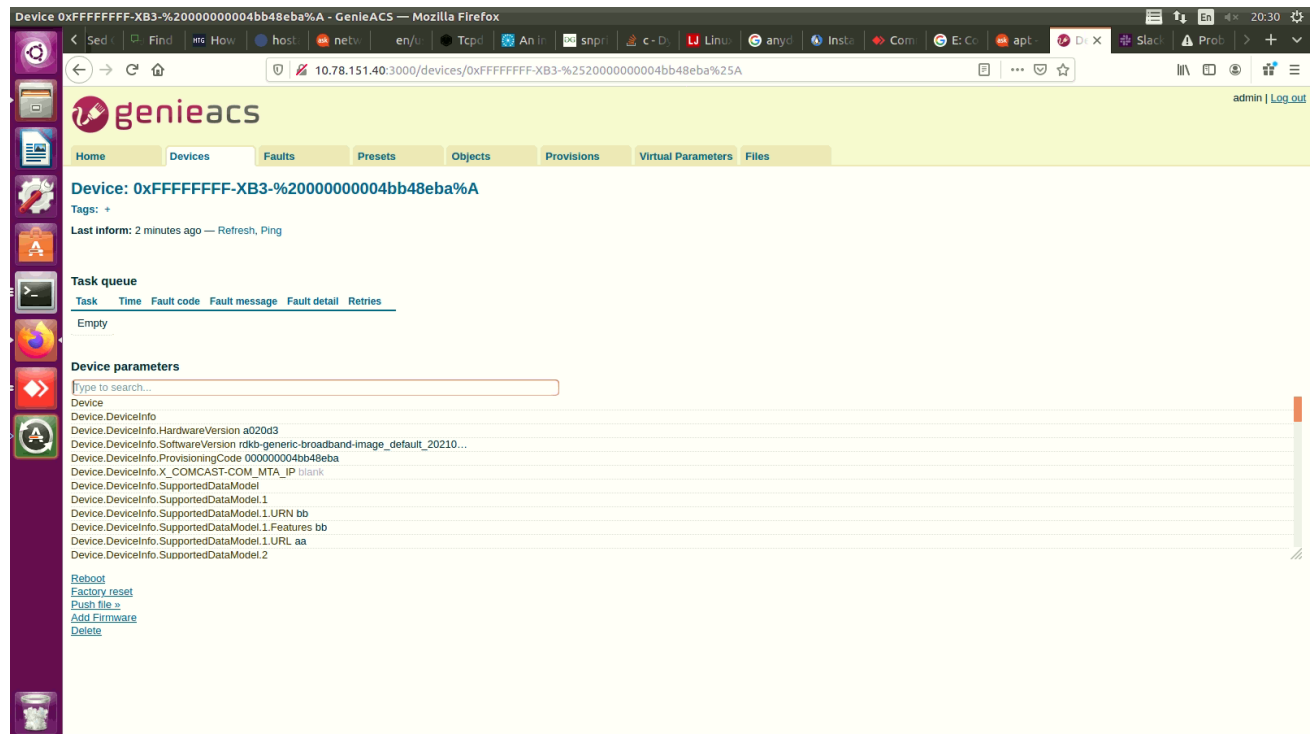
Basic GenieACS Server and RPI communication

To establish the basic connection - RPI and GenieACS Server, Follow the below link

[TR-069 Support for RDKB RPI Reference Platform](#)

GetParameter Values/Names

In devices tab, under 'device parameters' you can find all Data Parameters (according to the specifications (e.g. TR-069, TR-098 etc.) where request sent from CPE to ACS and stored in the database.



For Example, Below are the few DataParameters and the respective Output in the GenieACS UI.

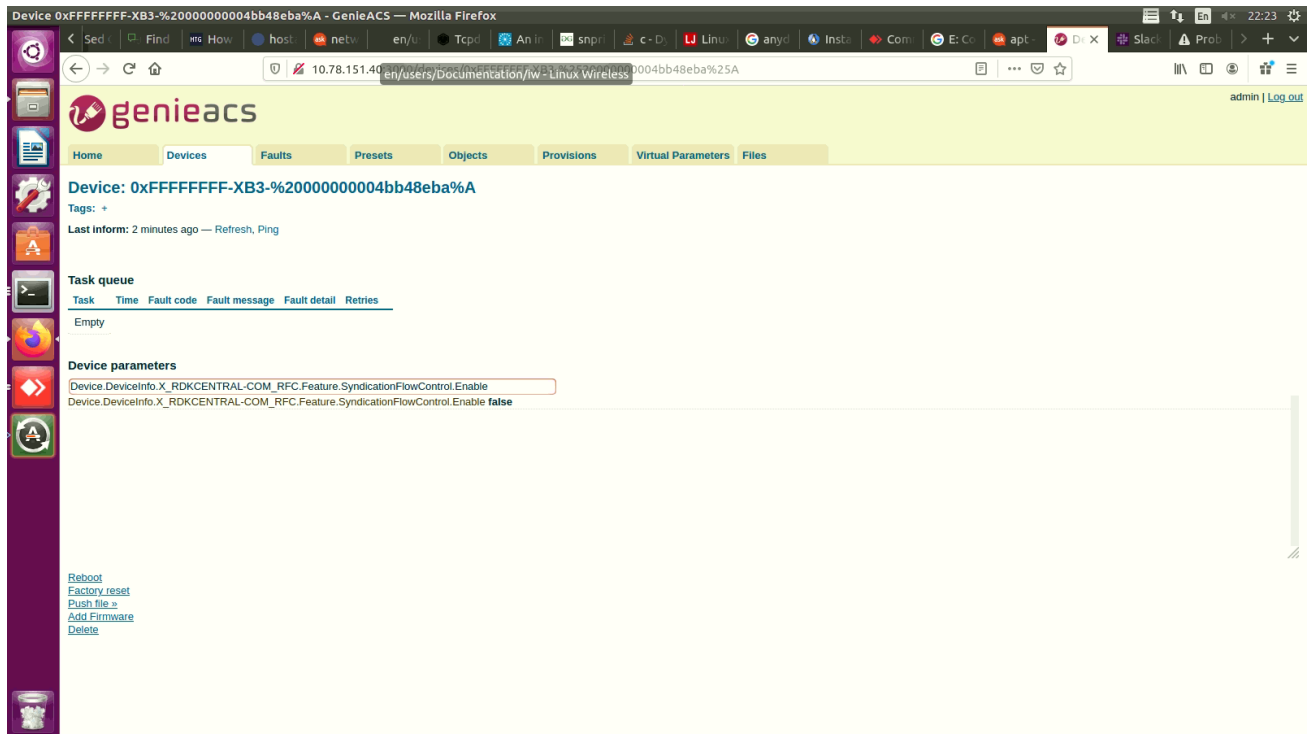
S. No	DataParameter	Output
1.	Device.DeviceInfo.HardwareVersion	a020d3
2.	Device.DeviceInfo.SoftwareVersion	rdkb-generic-broadband-image_default_20210120043953
3.	Device.DeviceInfo.Manufacturer	Raspberry Pi Foundation
4.	Device.DeviceInfo.ManufacturerOUI	0xFFFFFFFF
5.	Device.DeviceInfo.SerialNumber	000000004bb48eba
6.	Device.DeviceInfo.ModelName	ARMv7 Processor rev 4 (v7l)
7.	Device.DeviceInfo.X_COMCAST-COM_CM_MAC	B8:27:EB:B4:8E:BA
8.	Device.ManagementServer.ConnectionRequestURL	http://10.78.151.244:7547/
9.	Device.DeviceInfo.X_RDKCENTRAL-COM_RFC.Feature.SyndicationFlowControl.Enable	false
10.	Device.DeviceInfo.MemoryStatus.Total	927

List of GetParameters available in GenieACS Server - [GetParameter Values.txt](#)

SetParameter Values/Names

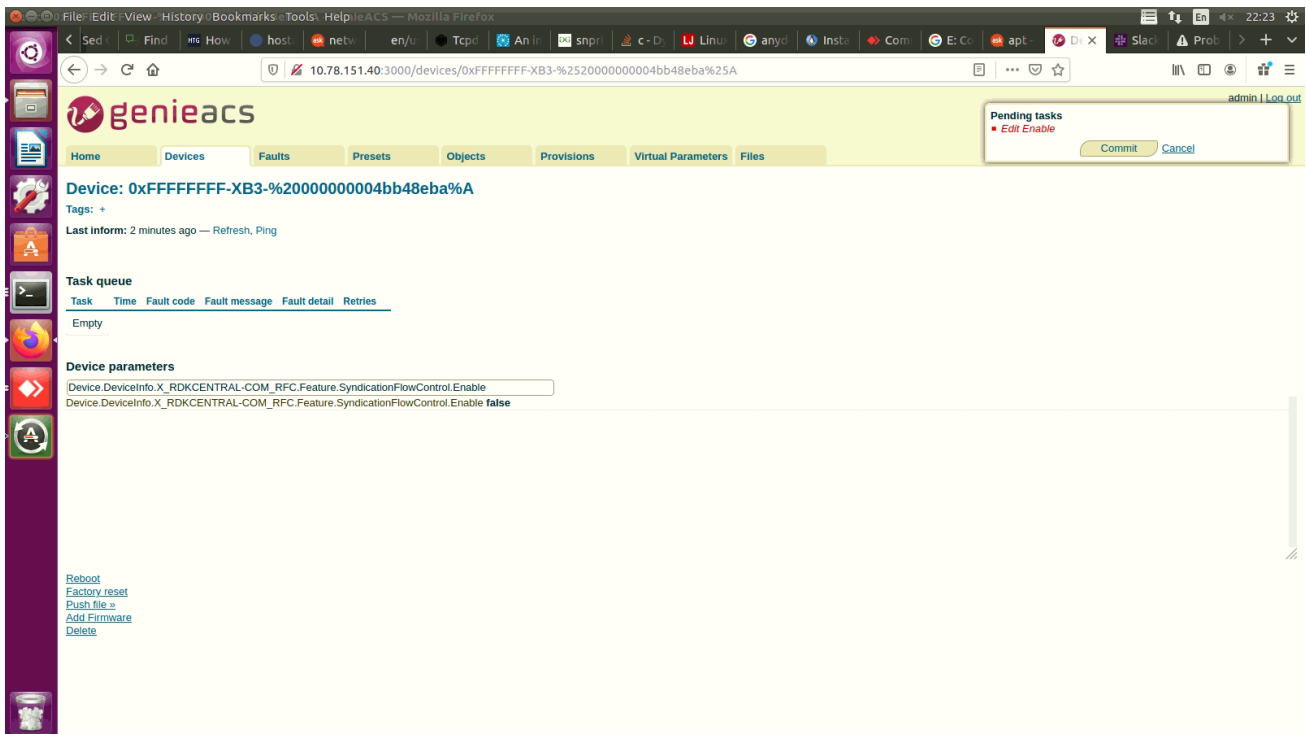
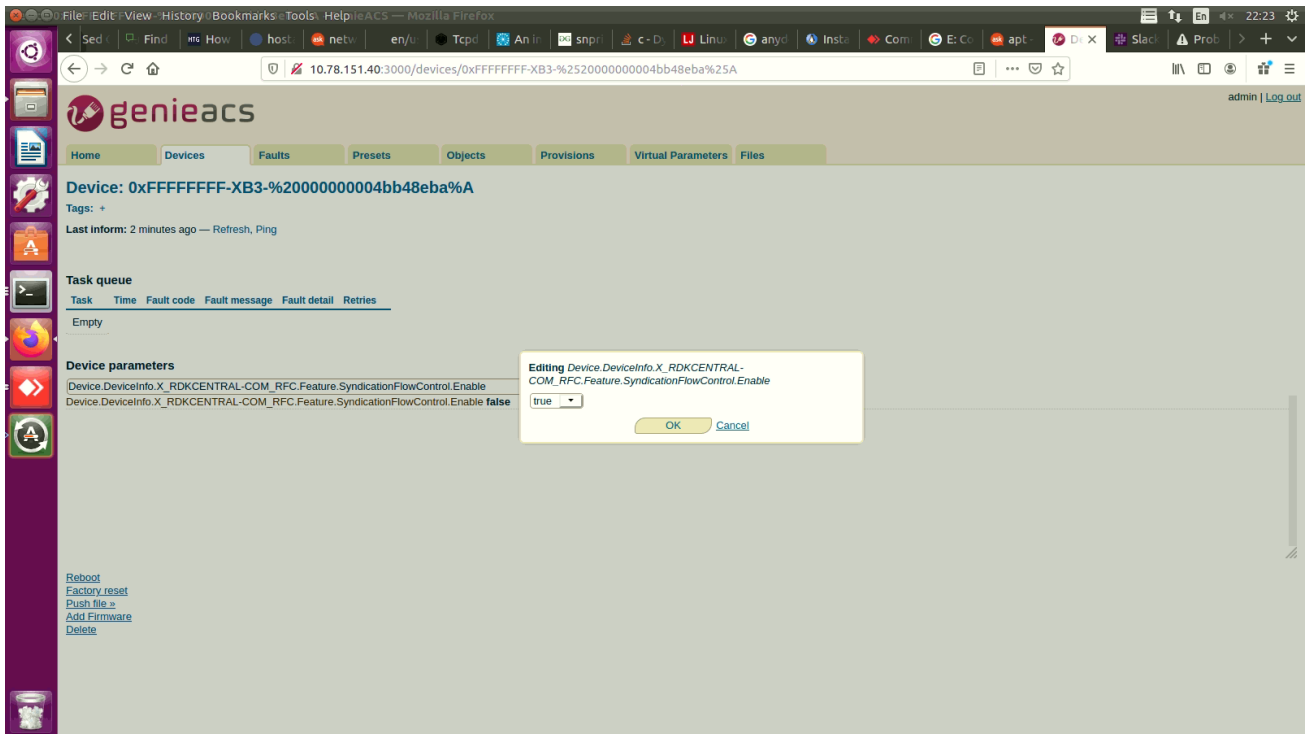
Boolean Value

Lets consider, Device.DeviceInfo.X_RDKCENTRAL-COM_RFC.Feature.SyndicationFlowControl.Enable is set to 'false' initially,

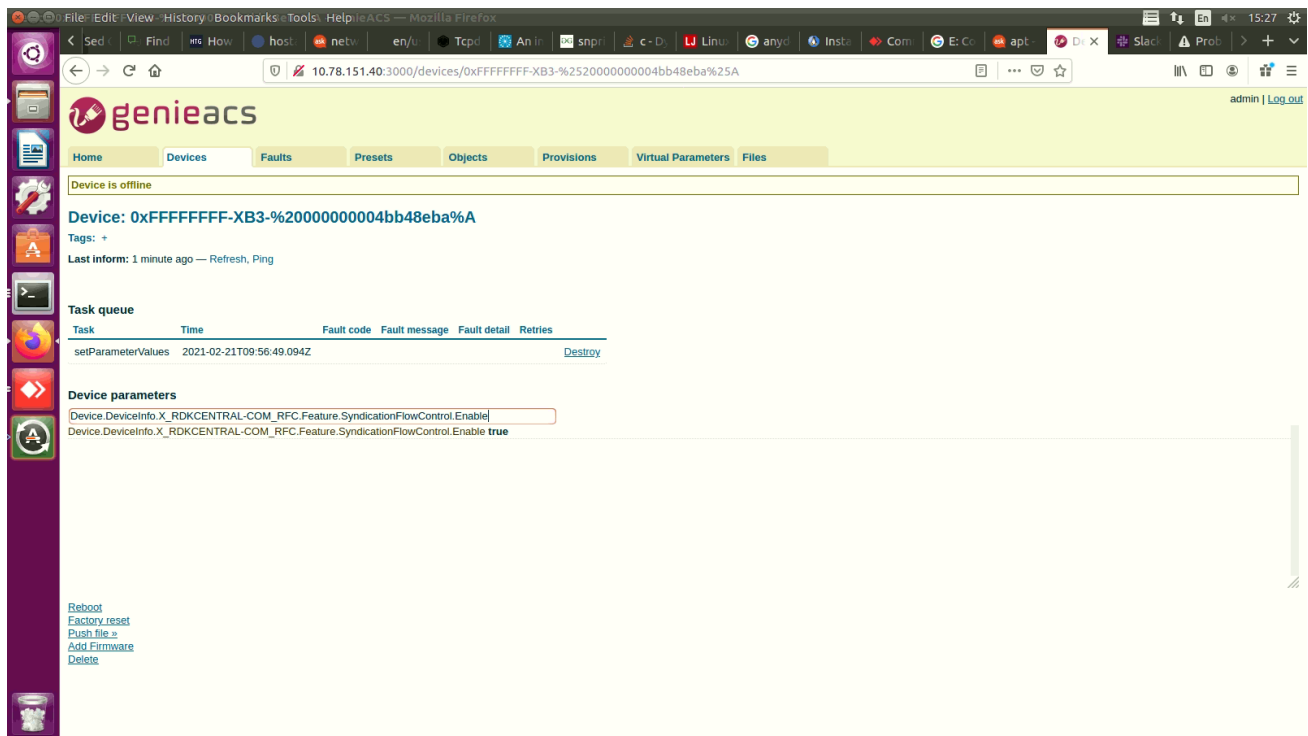


The screenshot shows the GenieACS web interface in a Mozilla Firefox browser. The address bar displays the URL `10.78.151.40:8080/en/users/Documentation/fw-Linux-Wireless/004bb48eba%25A`. The page title is "Device 0xFFFFFFFF-XB3-%2000000004bb48eba%A - GenieACS". The navigation bar includes tabs for Home, Devices, Faults, Presets, Objects, Provisions, Virtual Parameters, and Files. The "Devices" tab is active, showing the device name "Device: 0xFFFFFFFF-XB3-%2000000004bb48eba%A" and its tags. Below the device name, there is a "Task queue" section with a table showing no tasks. The "Device parameters" section lists two parameters: "Device.DeviceInfo.X_RDKCENTRAL-COM_RFC.Feature.SyndicationFlowControl.Enable" and "Device.DeviceInfo.X_RDKCENTRAL-COM_RFC.Feature.SyndicationFlowControl.Enable false". A red box highlights the parameter name. At the bottom left, there are links for "Reboot", "Factory reset", "Push file >", "Add Firmware", and "Delete".

Select the respective parameter and change its value to 'true' and commit the task to be performed.



GenieACS UI, Once after the `Device.DeviceInfo.X_RDKCENTRAL-COM_RFC.Feature.SyndicationFlowControl.Enable` is set to 'true'

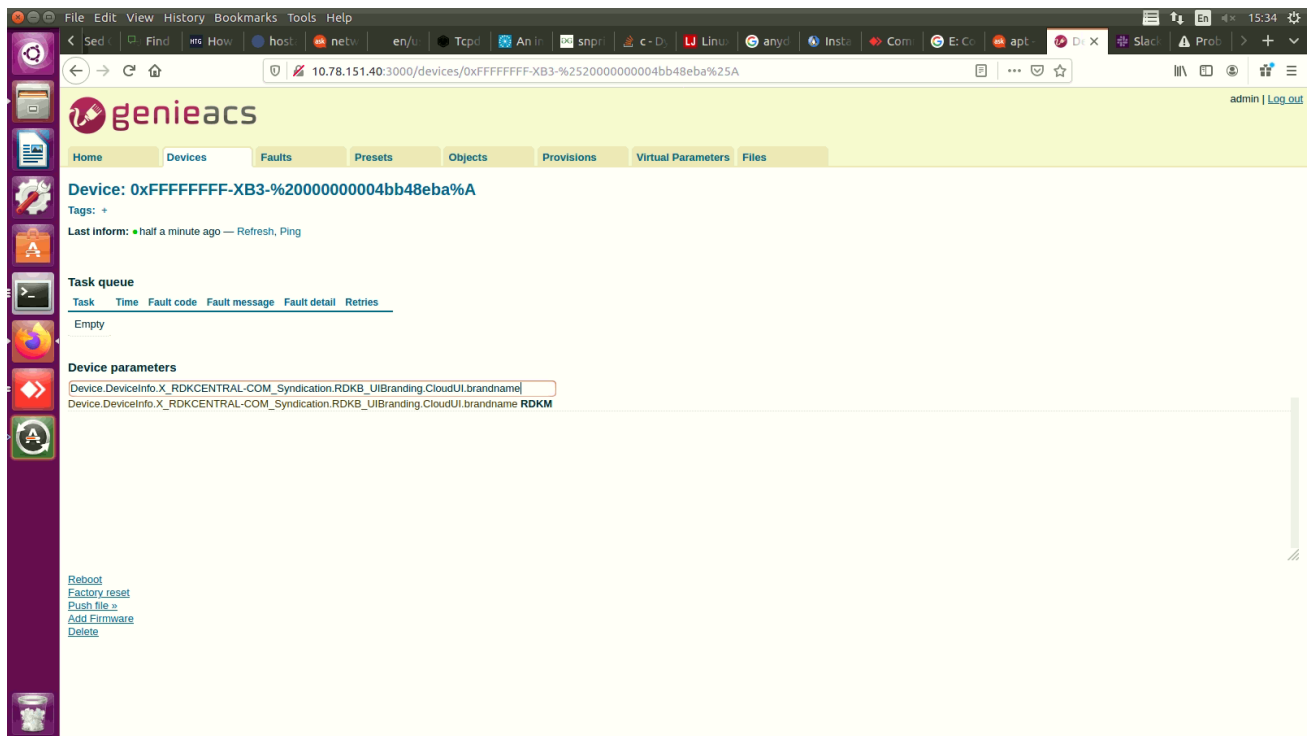


Once the value gets reflected in the GenieACS UI, also cross verify in the RPI for the change.

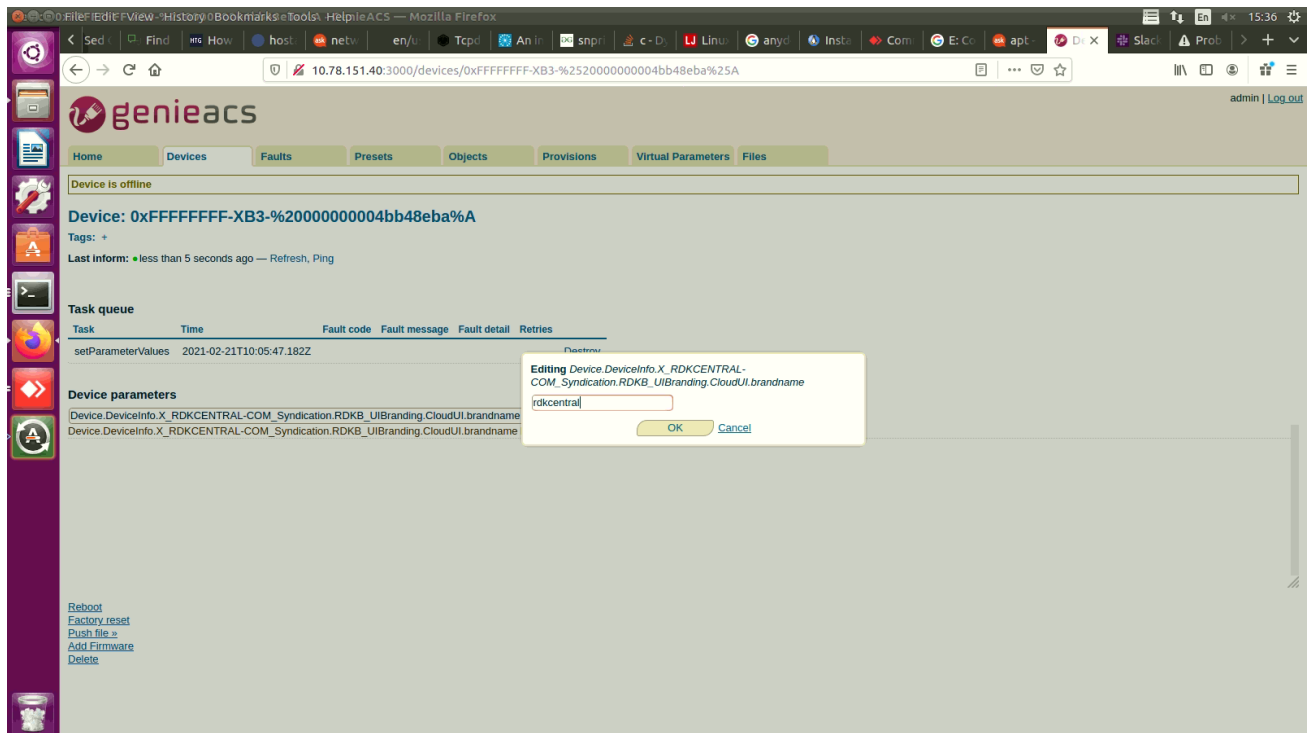
```
root@RaspberryPi-Gateway:~# dmcli eRT getv Device.DeviceInfo.X_RDKCENTRAL-COM_RFC.Feature.
SyndicationFlowControl.Enable
CR component name is: eRT.com.cisco.spvtg.ccsp.CR
subsystem_prefix eRT.
getv from/to component(eRT.com.cisco.spvtg.ccsp.pam): Device.DeviceInfo.X_RDKCENTRAL-COM_RFC.Feature.
SyndicationFlowControl.Enable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

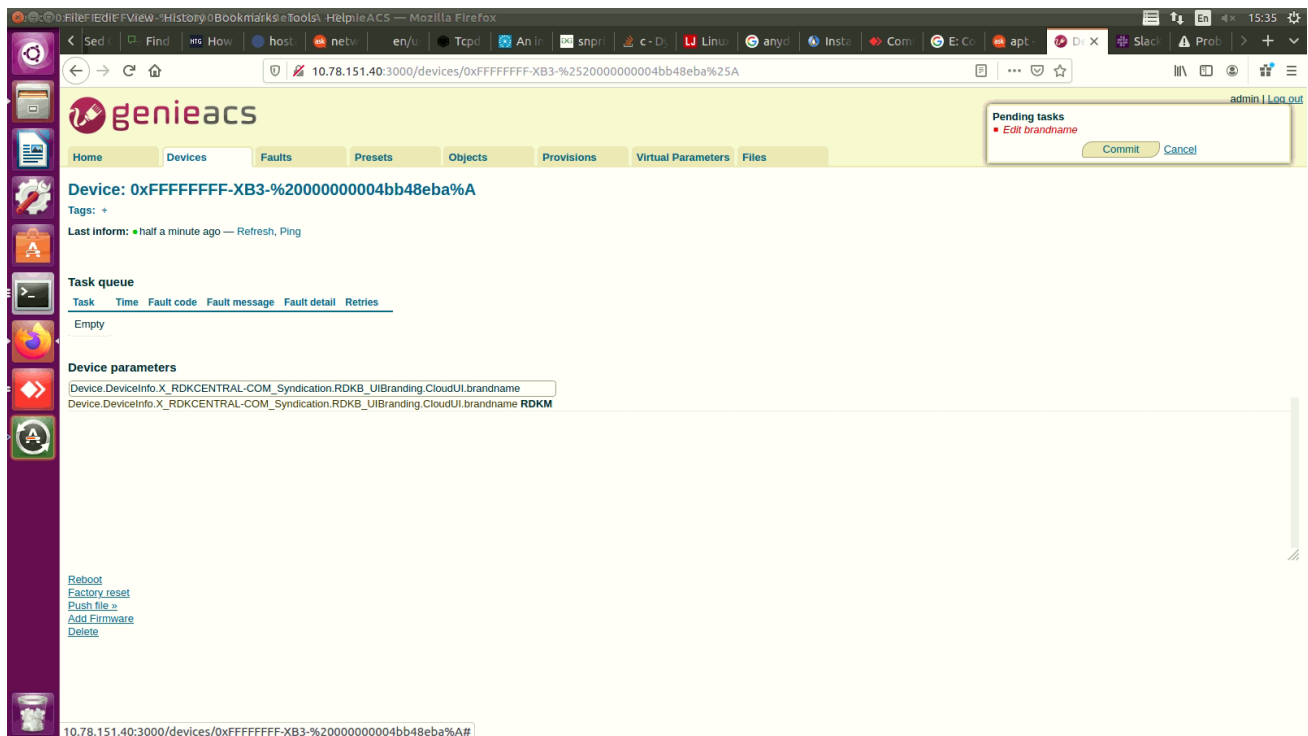
String Names/values

Lets consider, Device.DeviceInfo.X_RDKCENTRAL-COM_Syndication.RDKB_UIBranding.CloudUI.productname has the value 'RDKM'



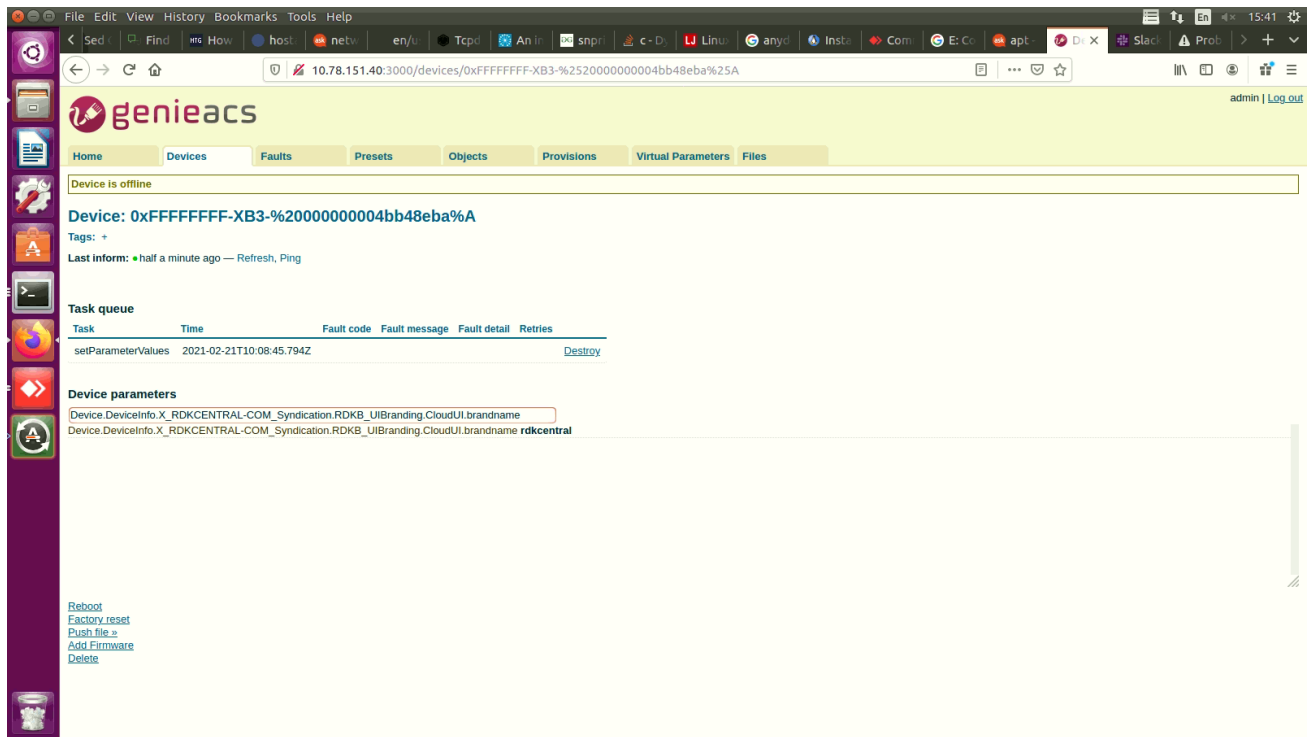
Then, Try to edit the value and commit the changes





Now, check for the value changes in both GenieACSUI and in the RPI.

GenieACS UI Output:



RPI output:

```
root@RaspberryPi-Gateway:~# dmcli eRT getv Device.DeviceInfo.X_RDKCENTRAL-COM_Syndication.RDKB_UIBranding.
CloudUI.brandname
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.
RDKB_UIBranding.CloudUI.brandname
Execution succeed.
Parameter      1 name: Device.DeviceInfo.X_RDKCENTRAL-COM_Syndication.RDKB_UIBranding.CloudUI.brandname
                  type:      string,      value: rdkcentral
```

List of Get/SetParameters available in GenieACS Server - [SetParameterValues.txt](#)

Limitations

Only Limited Data parameters are validated