

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

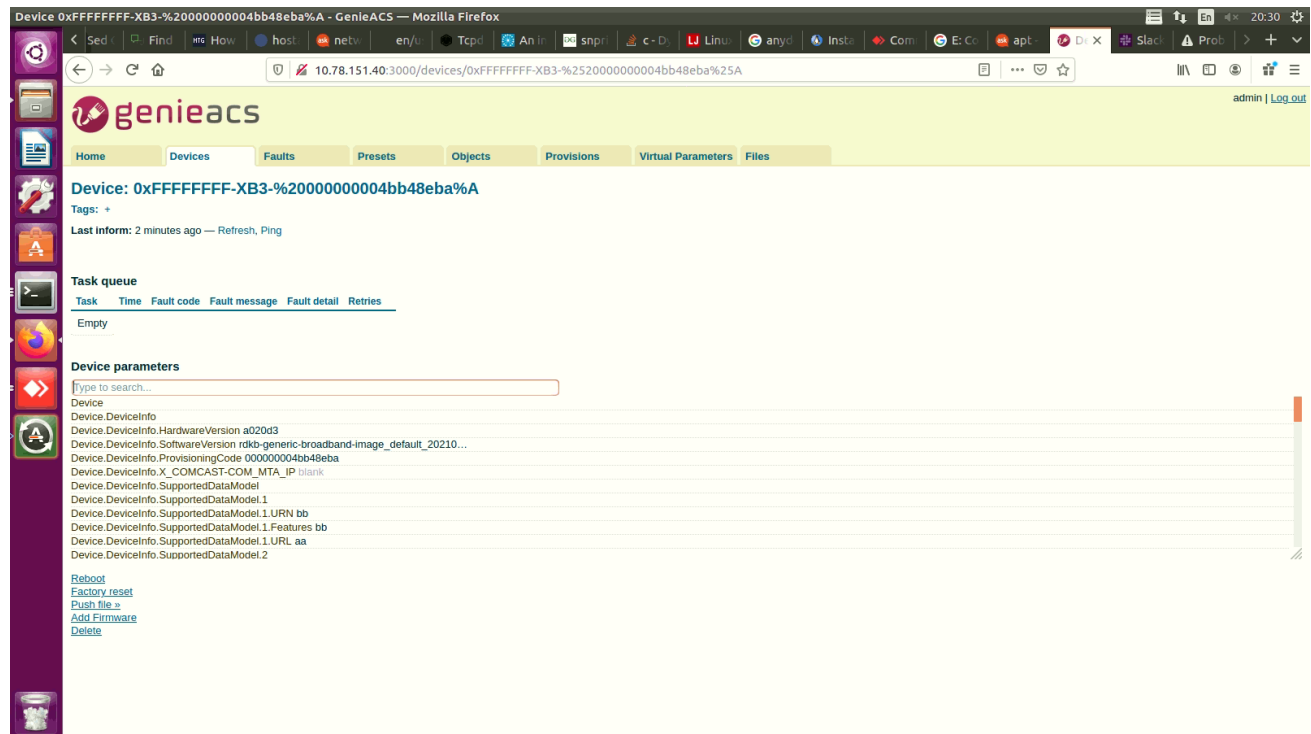
## Basic GenieACS Server and RPI communication

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.

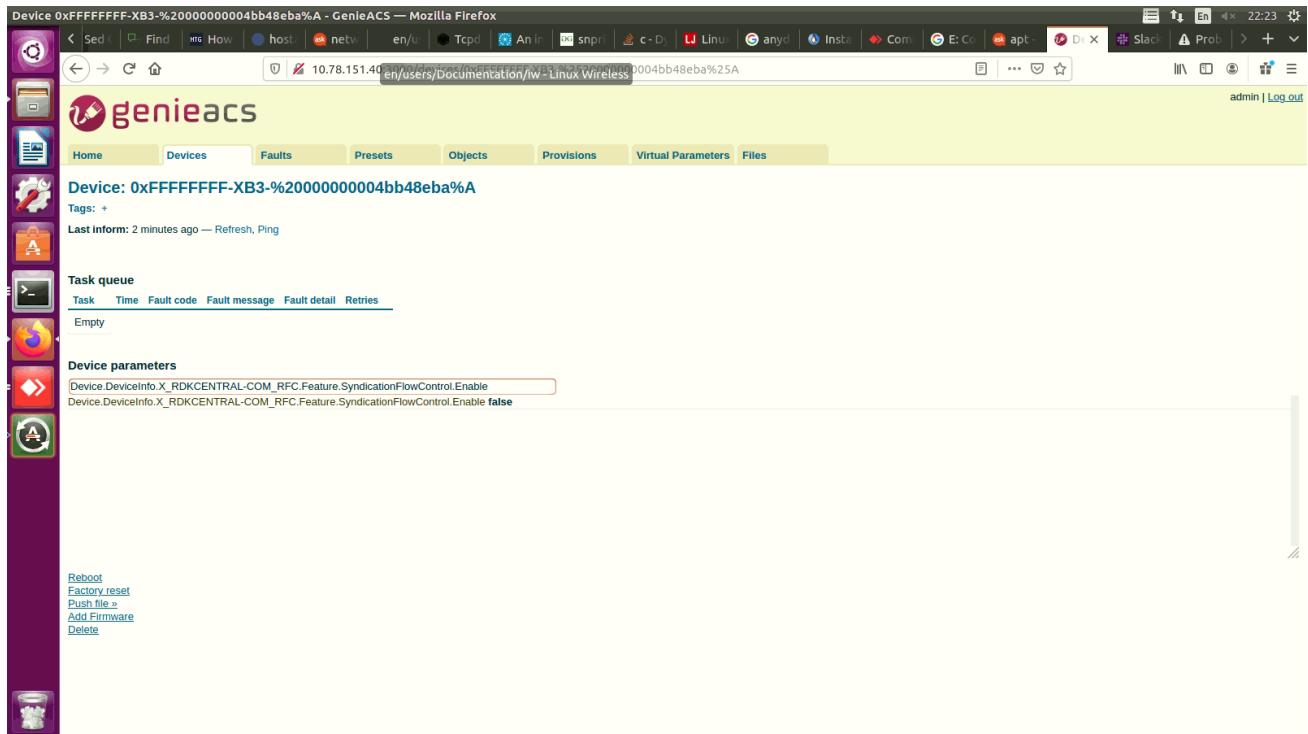
S. No	DataParameter	Output
1.	Device.DeviceInfo.HardwareVersion	a020d3
2.	Device.DeviceInfo.SoftwareVersion	rdkb-generic-broadband-image_default_20210120043953
3.	Device.DeviceInfo.Manufacturer	Raspberry Pi Foundation
4.	Device.DeviceInfo.ManufacturerOUI	0xFFFFFFFF
5.	Device.DeviceInfo.SerialNumber	000000004bb48eba
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	<a href="http://10.78.151.244:7547/">http://10.78.151.244:7547/</a>
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](#)

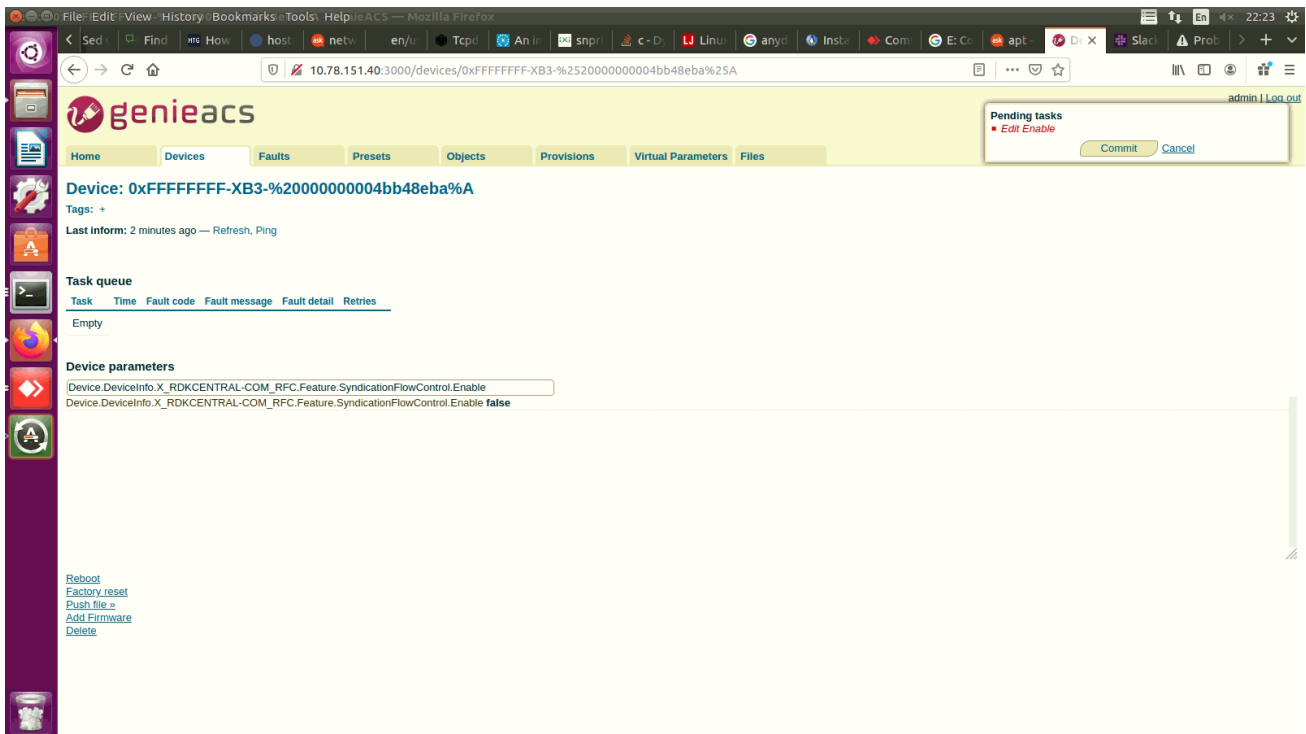
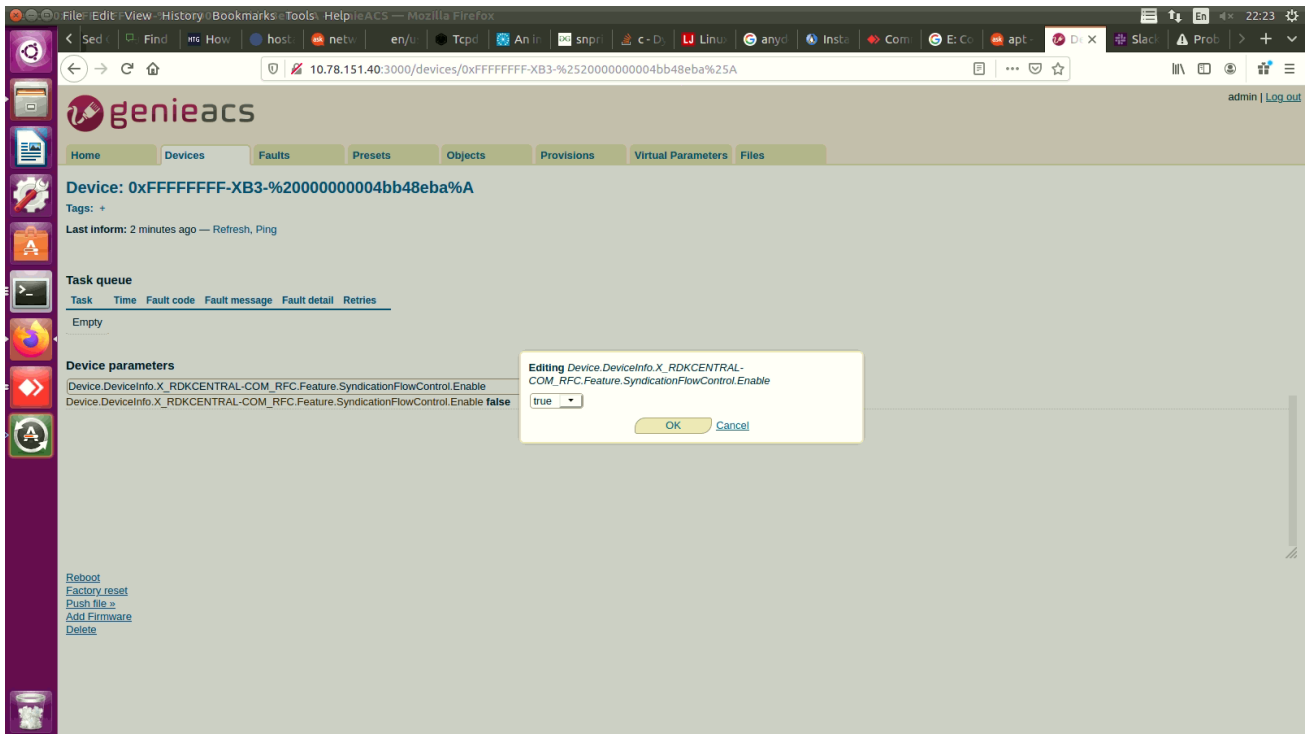
## SetParameter Values/Names

### Boolean Value

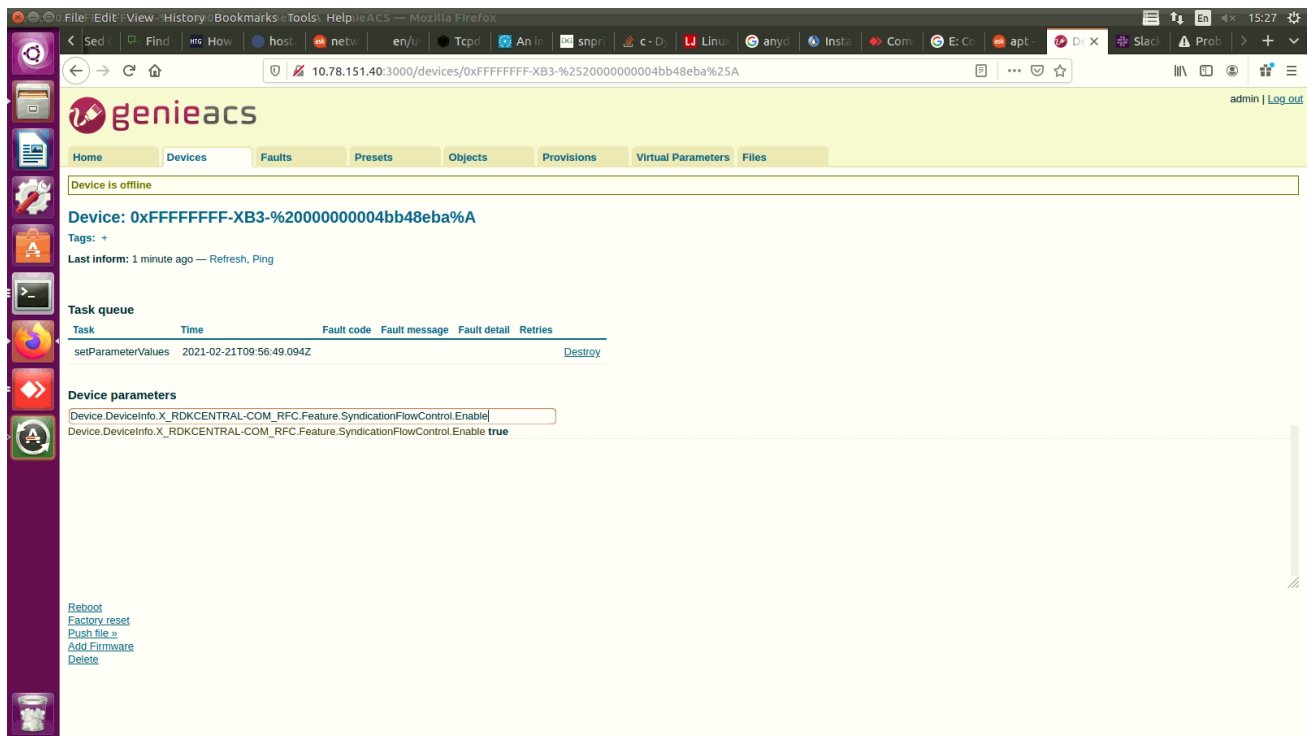
Lets consider, Device.DeviceInfo.X\_RDKCENTRAL-COM\_RFC.Feature.SyndicationFlowControl.Enable is set to 'false' initially,



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'

File Edit View History Bookmarks Tools Help

10.78.151.40:3000/devices/0xFFFFFFFF-XB3-%252000000004bb48eba%25A

admin | Log out

Home Devices Faults Presets Objects Provisions Virtual Parameters Files

Device: 0xFFFFFFFF-XB3-%20000000004bb48eba%A

Tags: +

Last Inform: • half a minute ago — Refresh, Ping

Task queue

Task	Time	Fault code	Fault message	Fault detail	Retries
Empty					

Device parameters

Device.DeviceInfo.X\_RDKCENTRAL-COM\_Syndication.RDKB\_UIBranding.CloudUI.brandname

Device.DeviceInfo.X\_RDKCENTRAL-COM\_Syndication.RDKB\_UIBranding.CloudUI.brandname **RDKM**

Reboot  
Factory reset  
Push file »  
Add Firmware  
Delete

Then, Try to edit the value and commit the changes

File Edit View History Bookmarks Tools Help ACS — Mozilla Firefox

10.78.151.40:3000/devices/0xFFFFFFFF-XB3-%2520000000004bb48eba%25A

admin | Log out

Home Devices Faults Presets Objects Provisions Virtual Parameters Files

Device is offline

Device: 0xFFFFFFFF-XB3-%20000000004bb48eba%A

Tags: +

Last Inform: • less than 5 seconds ago — Refresh, Ping

Task queue

Task	Time	Fault code	Fault message	Fault detail	Retries
setParameterValues	2021-02-21T10:05:47.182Z				

Device parameters

Device.DeviceInfo.X\_RDKCENTRAL-COM\_Syndication.RDKB\_UIBranding.CloudUI.brandname

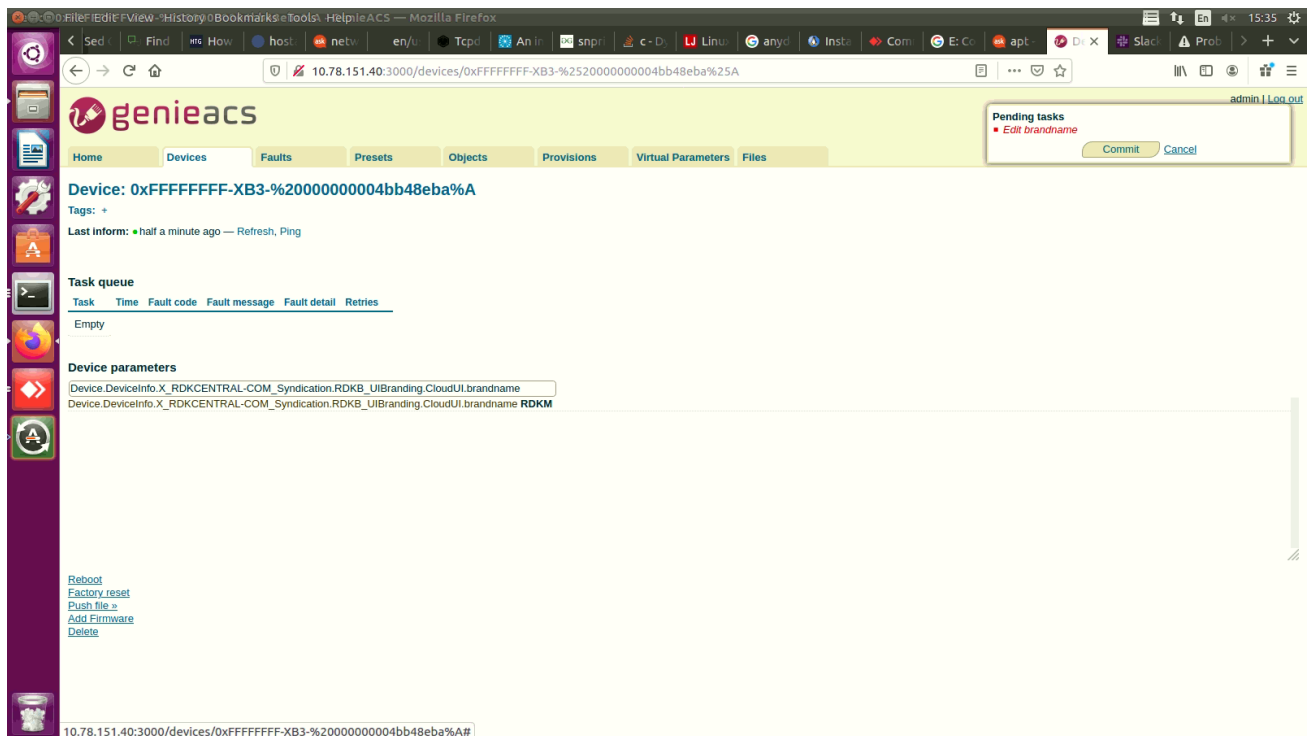
Device.DeviceInfo.X\_RDKCENTRAL-COM\_Syndication.RDKB\_UIBranding.CloudUI.brandname

Editing Device.DeviceInfo.X\_RDKCENTRAL-COM\_Syndication.RDKB\_UIBranding.CloudUI.brandname

rdkcentral

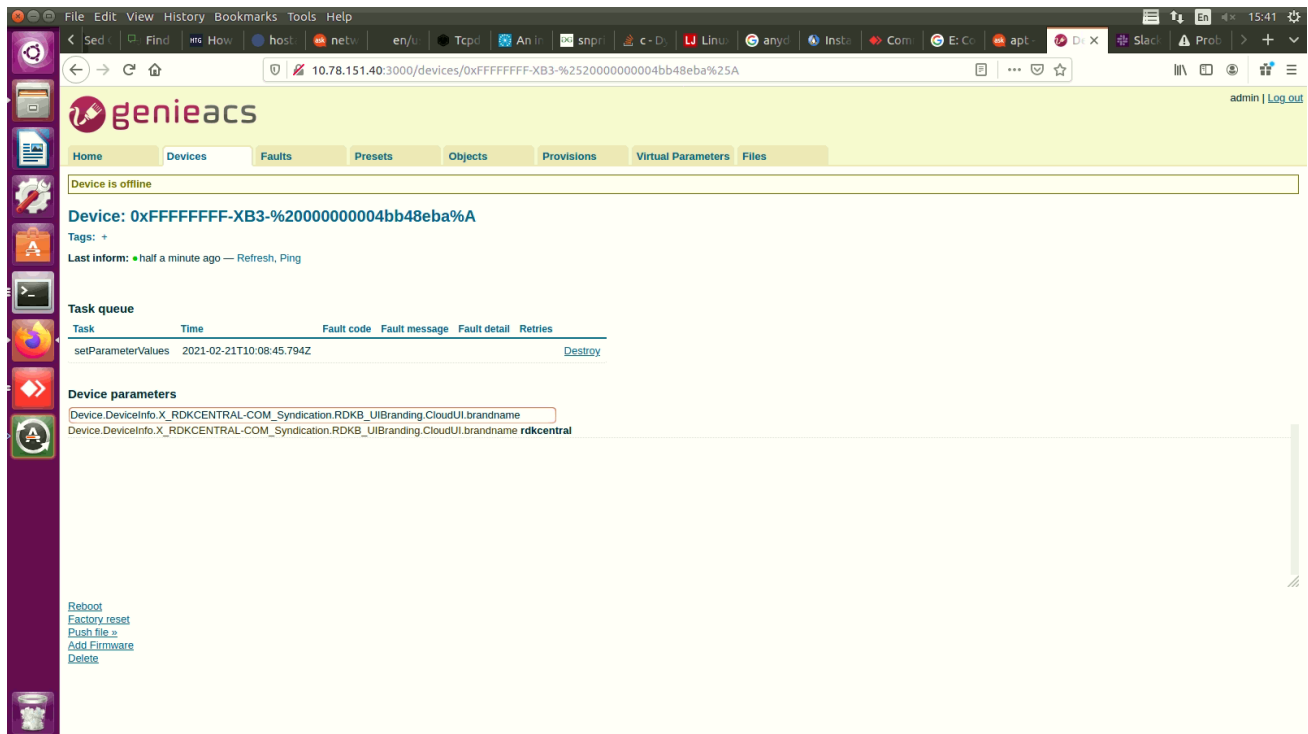
OK Cancel

Reboot  
Factory reset  
Push file »  
Add Firmware  
Delete



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