

# XConfSimulator - New features

## Introduction

Xconf Simulator is already integrated with 'firmware Upgrade' feature and is available with community. Details of existing Xconf simulator setup with firmwareUpgrade feature can be found in this wiki page:

<https://wiki.rdkcentral.com/display/SDK/XCONF+Simulator>

Our intention is to add 'featureControl' and 'logUpload' functionality to the Xconf simulator setup.

## Build

(from xconf-simulator/ folder)

mvn clean package

## Deploy

cp target/xconf-2.0.0.war <apache-tomcat>/webapps/**xconf**.war



Replace **"/xconf/"** through out this document with the actual name of the deployed package e.g. "XCONFSimulator" etc.

## Functionality

### Firmware Upgrade (Existing Feature)

```
curl -X PUT -H 'Content-Type: application/json' -d '{"eStbMac": "B8:27:EB:AE:57:B7","xconfServerConfig": {"firmwareDownloadProtocol": "http","firmwareFilename": "firmwareFilename.bin", "firmwareVersion": "test1","firmwareLocation": "test1", "rebootImmediately":false}}' http://<xconf_simulator_ip>:port/<xconf>/swu/stb
```

### Feature Control

getSettings (before doing updateSettings for the particular mac id)

```
curl 'http://<xconf_simulator_ip>:port/<xconf>/featureControl/getSettings?estbMacAddress=B8:27:EB:AE:57:B7'
```

Expected Output: (blank feature list)

```
{"featureControl":{"features":[]}}
```

updateSettings: (from any REST Client)

```
curl -X POST -H 'Content-Type: application/json' -d '{"estbMacAddress":"B8:27:EB:AE:57:B7","features":[{"name":"IDS","effectiveImmediate":true,"enable":true,"configData":{"SCAN_TASK":"MOUNT.FILE.PORT.PROC.LOG","SCAN_BIT":"ERRF","tr181.Device.DeviceInfo.X_RDKCENTRAL-COM_RFC.Feature.IDS.Enable":"true","tr181.Device.DeviceInfo.X_RDKCENTRAL-COM_RFC.Feature.IDS.ScanTask":"MOUNT.FILE.PORT.PROC."}},{"name":"rf4ce_pair_blackout","effectiveImmediate":true,"enable":true,"configData":{"pairing_fail_threshold":"2","blackout_reboot_threshold":"3","blackout_time":"120"}}]}' http://<xconf_simulator_ip>:port/<xconf>/featureControl/updateSettings
```

getSettings:

```
curl 'http://<xconf_simulator_ip>:port/<xconf>/featureControl/getSettings?estbMacAddress=B8:27:EB:AE:57:B7'
```

Expected Output:

```
{"featureControl":{"features":[{"name":"IDS","effectiveImmediate":true,"enable":true,"configData":{"SCAN_TASK":"MOUNT.FILE.PORT.PROC.LOG","SCAN_BIT":"ERRF","tr181.Device.DeviceInfo.X_RDKCENTRAL-COM_RFC.Feature.IDS.Enable":"true","tr181.Device.DeviceInfo.X_RDKCENTRAL-COM_RFC.Feature.IDS.ScanTask":"MOUNT.FILE.PORT.PROC."}},{"name":"rf4ce_pair_blackout","effectiveImmediate":true,"enable":true,"configData":{"pairing_fail_threshold":"2","blackout_reboot_threshold":"3","blackout_time":"120"}}]}}
```

### LogUpload

getSettings: (before doing updateSettings for the particular mac id)

```
curl 'http://<xconf_simulator_ip:port>/xconf/logUploader/getSettings?estbMacAddress=B8:27:EB:AE:57:B7&model=RPI'
```

Expected Output: (default settings mentioned in WEB-INF/classes/RPI.json)

```
{ "urn:settings:GroupName": "RPI_V3", "urn:settings:CheckOnReboot": false, "urn:settings:CheckSchedule:cron": "33 5 * * *", "urn:settings:CheckSchedule:DurationMinutes": 180, "urn:settings:LogUploadSettings:Message": "Don't upload your logs, but check for updates on this schedule.", "urn:settings:LogUploadSettings:Name": null, "urn:settings:LogUploadSettings:NumberOfDays": null, "urn:settings:LogUploadSettings:UploadRepositoryName": null, "urn:settings:LogUploadSettings:UploadOnReboot": null, "urn:settings:LogUploadSettings:UploadImmediately": false, "urn:settings:LogUploadSettings:upload": false, "urn:settings:LogUploadSettings:UploadSchedule:cron": null, "urn:settings:LogUploadSettings:UploadSchedule:levelone:cron": null, "urn:settings:LogUploadSettings:UploadSchedule:leveltwo:cron": null, "urn:settings:LogUploadSettings:UploadSchedule:levelthree:cron": null, "urn:settings:LogUploadSettings:UploadSchedule:DurationMinutes": null, "urn:settings:VODSettings:Name": null, "urn:settings:VODSettings:LocationsURL": null, "urn:settings:VODSettings:SRMIPList": null, "urn:settings:TelemetryProfile:header": "err_LSA_E_RES_TIMEOUT" }
```

updateSettings:

```
curl -X POST -H 'Content-Type: application/json' -d '{ "estbMacAddress": "B8:27:EB:AE:57:B7", "logUploadSettings": { "uploadOnReboot": true, "uploadRepositoryUrl": "https://Vssr.ccp.xcal.tvVcgi-binVrdkvlogupload.cgi", "uploadProtocol": "HTTP", "uploadScheduleCron": "*V5 * * * *" } }' http://<xconf_simulator_ip:port>/xconf/logUploader/updateSettings
```

getSettings:

```
curl 'http://<xconf_simulator_ip:port>/xconf/logUploader/getSettings?estbMacAddress=B8:27:EB:AE:57:B7&model=RPI'
```

Expected Output: (should override default parameters with the ones given in updateSettings)

```
{ "urn:settings:GroupName": "RPI_V3", "urn:settings:CheckOnReboot": false, "urn:settings:CheckSchedule:cron": "33 5 * * *", "urn:settings:CheckSchedule:DurationMinutes": 180, "urn:settings:LogUploadSettings:Message": "Don't upload your logs, but check for updates on this schedule.", "urn:settings:LogUploadSettings:Name": null, "urn:settings:LogUploadSettings:NumberOfDays": null, "urn:settings:LogUploadSettings:UploadRepositoryName": null, "urn:settings:LogUploadSettings:UploadImmediately": false, "urn:settings:LogUploadSettings:upload": false, "urn:settings:LogUploadSettings:UploadSchedule:levelone:cron": null, "urn:settings:LogUploadSettings:UploadSchedule:leveltwo:cron": null, "urn:settings:LogUploadSettings:UploadSchedule:levelthree:cron": null, "urn:settings:LogUploadSettings:UploadSchedule:DurationMinutes": null, "urn:settings:VODSettings:Name": null, "urn:settings:VODSettings:LocationsURL": null, "urn:settings:VODSettings:SRMIPList": null, "urn:settings:TelemetryProfile:header": "err_LSA_E_RES_TIMEOUT", "urn:settings:LogUploadSettings:UploadRepository:uploadProtocol": "HTTP", "urn:settings:LogUploadSettings:UploadRepository:URL": "https://<LOG_UPLOAD_SERVER>/OUR_CUSTOM_LOG_UPLOAD_PAGE.html", "urn:settings:LogUploadSettings:UploadSchedule:cron": "*V5 * * * *", "urn:settings:LogUploadSettings:UploadOnReboot": true }
```