**FIRMWARE MANAGEMENT**

**New Firmware Management :**

1) One Device should not have more than one Firmware(2G,3G,4G)

2) One Project can have more than one Firmware .

**Example** :

Consider GOAPDS as one project having both 2G and 3G configuration.

While registering the device serial numbers to particular project have to select under which firmware it should register whether it is 2G ,3G or 4G .

One device should not register under two firmwares because one device should have only one Firmware.

Server should serve the server firmware path according to the registration.

If intentionally want to change the Firmware, firstly is should deregister from the previous Firmware type and register to the new firmware type.

While uploading the patch file to server should give the version like 1.1,1.2...

To update the previous version should higher version than the previous version should not be same as the previous version.

Can give the description like what the patch file consists

**Firmware Patch Management:**

1) Under any particular firmware we are maintaining the versions of updating the firmware .

For Example :

Firmware Name : 2G

Version : 1.1

if any update needed to that particular 2G firmware and the patch should create with the 1.2 version with the modification details in that patch.

Server will send the firmware path with the latest version to the device.

Like wise version keeps incresing whenever update required to that firmware like 1.3,1.4,etc.., Server will send the latest updated path to the device.

**Note** : One device should have only one firmware while registering the devices should be clear under which firmware it should register.

Likewise 3G and 4G firmware should have different version maintenance in each firmware.

**Patch Dependencies :**

1) Patch dependencies comes under multiple firmware version download at a time.

In application download didn’t have multiple application download concept it should maintain a version file.

For Example:

In multiple firmware version download

Consider a project is having 1.1,1.2,1.3 version patches in the server .

Example serial number **111817161509**

This device number is registered to a project having 3 patches in project.

Intially device contains 1.0 version patch version .

To update these 3 patches there is a patch dependency concept where we can select how many patches to download

At the time of patch upload have to select patch dependency like 1.1,1.2,1.3 according to the selection it will download from lower version to higher version.

If we didn’t select patch dependency, only latest patch version path will send to the devices that is 1.3 version patch, and it will download only latest 1.3 version patch .

If we select dependency at the time of patch uploading, server will send all the three versions path to the device and the device will download all the patches .