Update Process:

1. Get Available Firmware:

Get the new Binaries for updating:
Returns null if the process failed or if there are no new Binaries
Synchronous call

```
public FirmwareUpdate getAvailableFirmwareUpdate() throws DeviceException
```

2. Do update:

Update YetiDevice with the information from firmwareUpdate obtained in step1
Synchronous call

@firmwareUpdate*: FirmwareUpdate*: contains the binaries to be updated – for DistoDevice (APP, EDM,
...) and Components: Disco, fta, ….

@listener : UpdateDeviceListener, receives feedback from update process.

```
public ResponseUpdate updateDeviceFirmwareWithFirmwareUpdate(final
FirmwareUpdate firmwareUpdate, final UpdateDeviceListener listener)
throws DeviceException
```

Reinstall process:

1. Get Available Firmware:

Get the current Binaries for updating:
Returns null if the process failed or if there are no new Binaries
Synchronous call

```
public FirmwareUpdate getReinstallFirmware() throws DeviceException
```

2. Do update:

Synchronous call

```
public ResponseUpdate updateDeviceFirmwareWithFirmwareUpdate(final
FirmwareUpdate firmwareUpdate, final UpdateDeviceListener listener)
throws DeviceException
```

ResponseUpdate will hold the result of the update process, if the process was not successfull then:
ResponseUpdate.get error != null

IMPORTANT: It can happen that the JSON file contains information about the component but the component is not available, i.e. Disco device is not connected to Yeti. So the app needs to validate that the components are available for update.

Example:

```
ResponsePlain responsePlain = yetiDevice.getUpdate().getValue(serialCommand,
yetiDevice);

if(responsePlain.getError() != null
      && responsePlain.getError().getErrorCode() !=
ErrorDefinitions.DEVICE_FTA_IN_SWD_MODE_CODE ){
                        Log.i("isComponentConnected", "Component is not
connected");
                        return false;
}
```

If the component is not available then you should remove the components binaries from the firmware update object

```
List<FirmwareComponent> fwComponents = fwUpdateToUse.getComponents();
Iterator<FirmwareComponent> iterator = fwComponents.iterator();
while (iterator.hasNext()) {
      FirmwareComponent fwComponent = iterator.next(); // must be called before
you can call i.remove() isComponentConnected = updateFirmwareDeviceHelper.
                                          isComponentConnected(
                                                currentDevice,
                                                fwComponent.getSerialCommand(),
                                                fwComponent.getVersionCommand()
                                          );
      if(isComponentConnected == false){
            iterator.remove();
      }
}
```

Example: ***Update Process***

```
if (currentDevice != null &&

currentDevice.getConnectionState().equals(Device.ConnectionState.connected)) {

      if (storagePermission == true) {

            FirmwareUpdate firmwareUpdate
                  =currentDevice.getAvailableFirmwareUpdate();

            if (firmwareUpdate != null) {

                  responseUpdate =
                        currentDevice.updateDeviceFirmwareWithFirmwareUpdate
                        (firmwareUpdate, YetiInformationActivity.this);

                  if (responseUpdate.getIsUpdateFinished() == true){
                        showAlert("Update Successful");
                  }

            } else {
                  showAlert("Update Firmware is null");
            }
      } else {
            Log.e("Error",": No Storage perm., unable to run the update.");
      }
}
```