



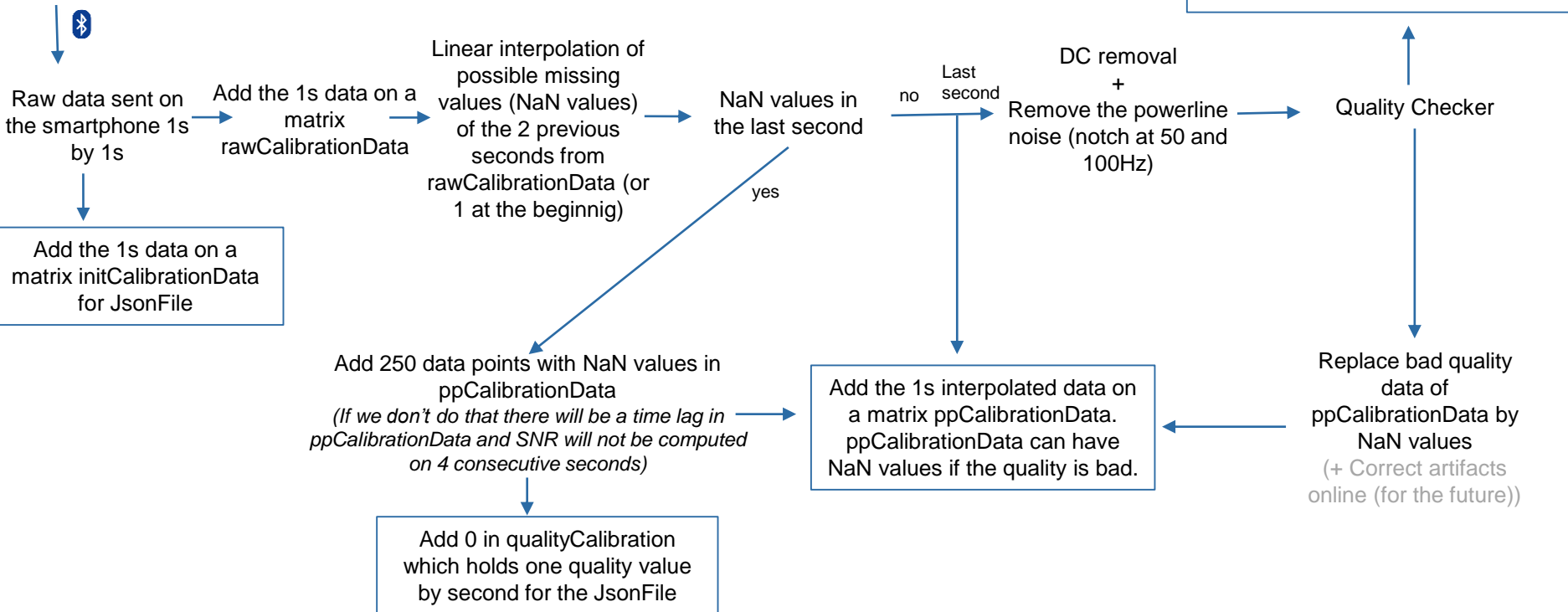
Schema on the pipeline of Melomind

Fanny GROSSELIN

09-02-2017

During Calibration

During Calibration



During Calibration

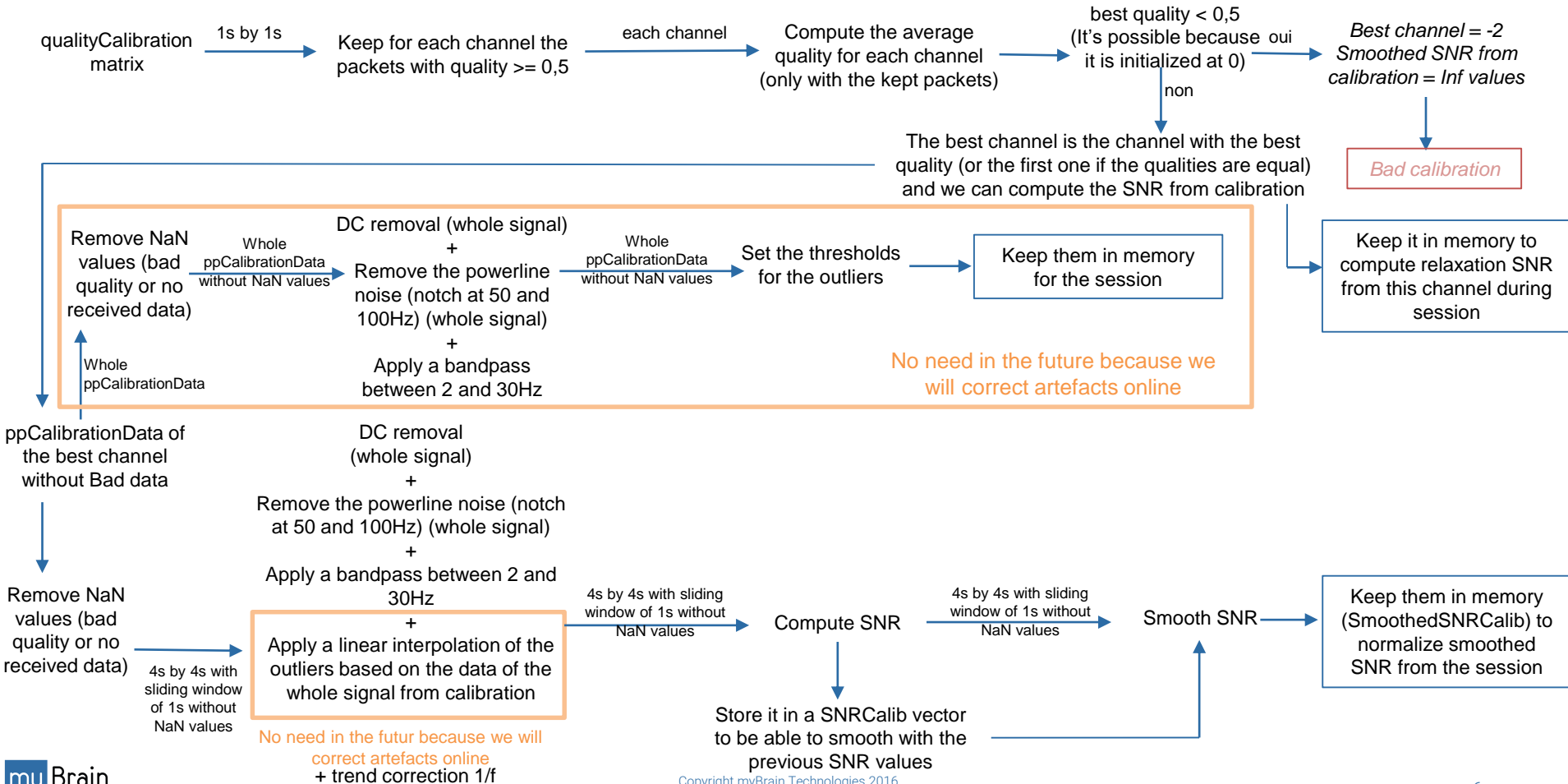
What is kept in memory in the smartphone?

This is **ppCalibrationData** (array of 2 rows) which is used in the next pipelines → keep it in memory of the smartphone until the end of the processes which are done at the end of calibration.

rawCalibrationData is kept in memory until the end of the calibration.

At the end of the Calibration

At the end of the Calibration



At the end of the Calibration

What we sent to the server ?

initCalibrationData is sent to the server with the **qualityCalibration** on a Json file. **initCalibrationData** is without any process in order to have the original data for a possible work offline.

What is keep in memory in the smartphone?

The **best channel** (with the best quality) (int = 0 or 1) and a vector which holds all the **Smoothed SNR values from the calibration** (vector of float) → keep it in memory of the smartphone until the end of the processes which are done at the end of session. We have also to keep in memory the **bounds of the outliers** (vector of 2 floats).

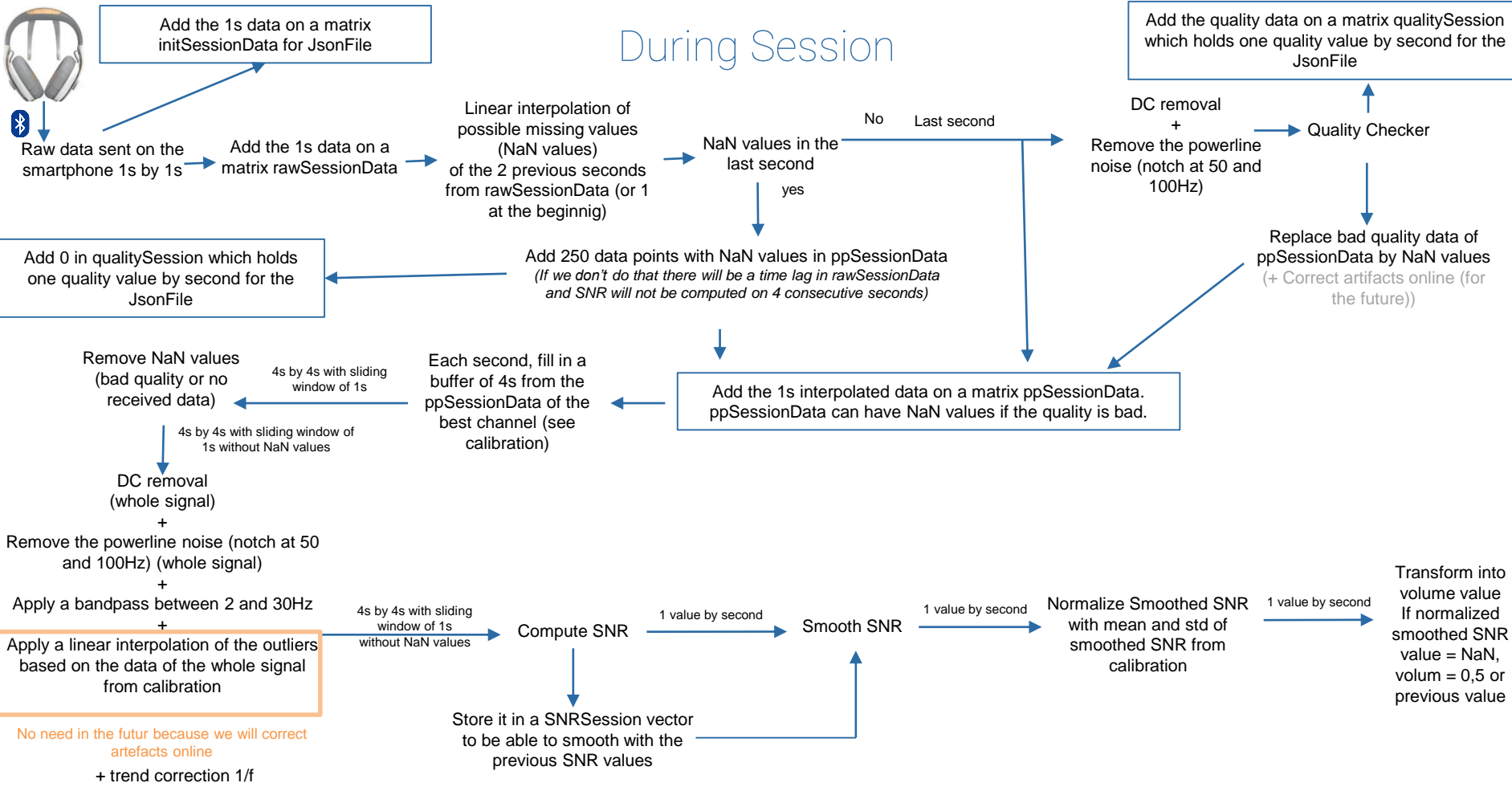
What is remove from memory of the smartphone?

rawCalibrationData, **ppCalibrationData**

During Session



During Session



No need in the futur because we will correct artefacts online + trend correction 1/f

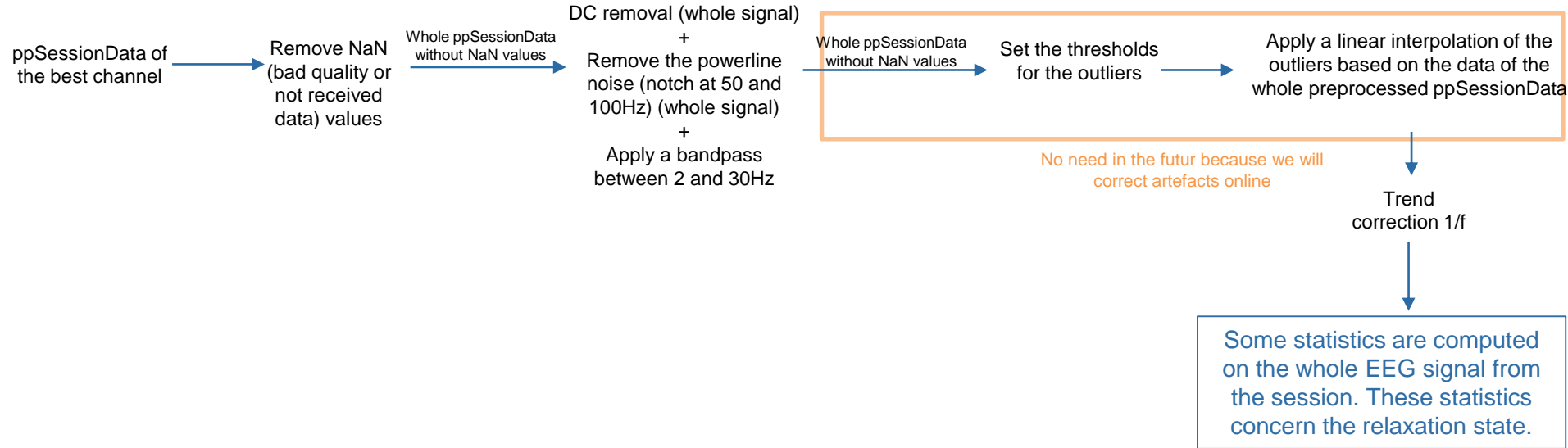
During Session

What is keep in memory in the smartphone?

- This is **ppSessionData** (array of 1 row of float) which is used to compute the relaxation index and statistics about relaxation state. The NaN values correspond to bad quality values or data no received → keep it in memory of the smartphone until the end of the processes which are done at the end of session.
- **rawSessionData** is kept in memory until the end of the session.
- Keep also in memory the **normalized smoothed SNR values** from the session to draw some plots at the end of the session.

At the end of the Session

At the end of the Session



At the end of the Session

What we sent to the server ?

- **initSessionData** is sent to the server with the **qualitySession** on a Json file. initSessionData is without any process in order to have the original data for a possible work offline.
- **Statistics.**

What is keep in memory in the smartphone?

Nothing.

What is remove from memory of the smartphone?

rawSessionData, ppSessionData