



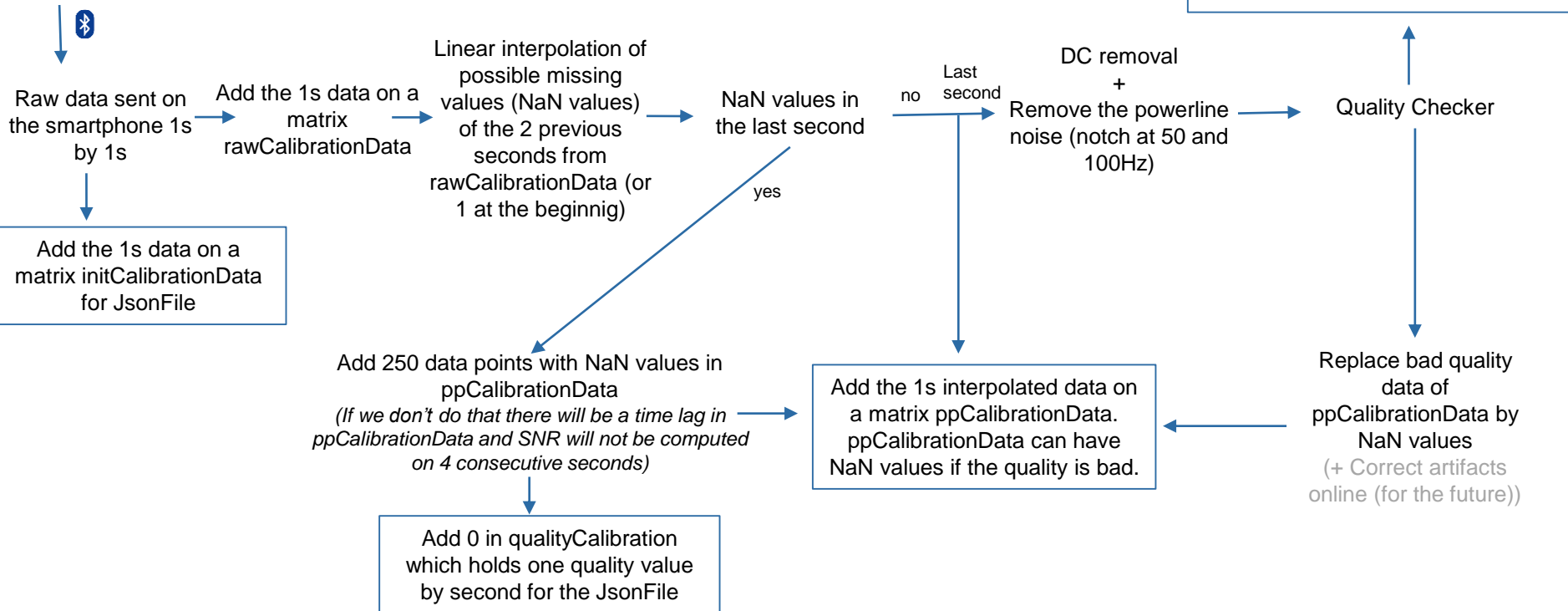
# Schema on the pipeline of Melomind

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## During Calibration

# During Calibration



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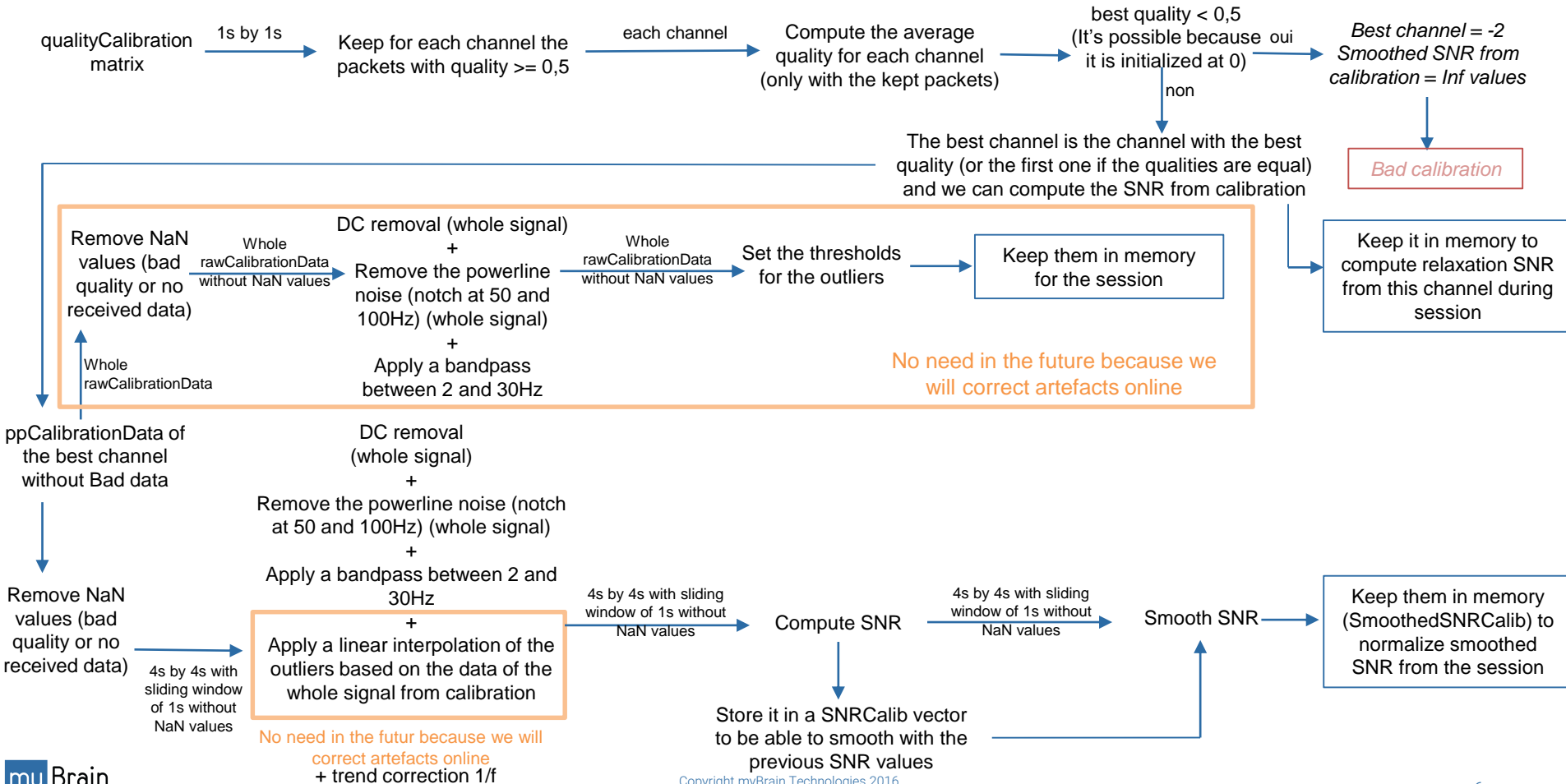
## What is keep in memory in the smartphone?

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





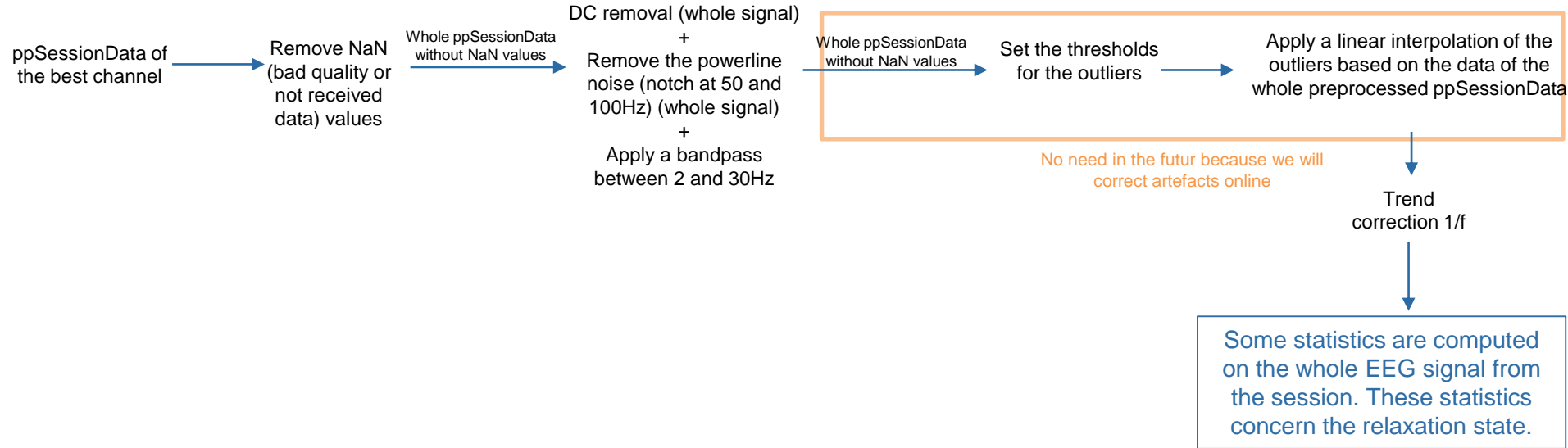
# During Session

## 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**