Mindware event file modifications

# Purpose

Event recordings in the Mindware event files are occasionally inconsistent. This makes it difficult to segment the ECG & EDA data because of missing or duplicated baseline or story event markers.

This document documents the changes made to the event files.

# Protocol

* If the baseline only has a single marker, we will use the default duration of 300s. No changes to the corresponding event file will be made.
* If a story only has a single marker but the next story has three markers, it is assumed that accidentally the button for the next story marker has been pressed. Consequently, the first marker of the next story will be replaced by a second marker of the first story.
* If a marker for a story is missing and the next story has 2 markers, it is assumed that the experimenter forgot to press a button to indicate the end of the story. In this case, the first marker of the next story will also be used to indicate the offset of the first story. No changes will be made to the corresponding event file.
* If a story has three markers while the surrounding stories each have two markers; in addition, one of the three markers is temporally very close to another marker, then it is assumed that the experimenter accidentally pressed the button twice. The latest (or earliest) marker, depending on whether it marked the onset (or offset) of the story will be removed.

# Modifications

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| **Filename** | **Issue** | **Modification** |
| ASAMB\_2006\_event\_RT.txt | Story 2 has only one marker, story 3 has three markers | Replace first story 3 marker with story 2 marker |
| ASAMB\_2020\_event\_RT.txt | Acquisition start has been recorded twice. | Remove 2nd acquisition start |
| ASAMB\_2023\_1\_event\_RT.txt/  ASAMB\_2023\_2\_event\_RT.txt | Story 4 only has 1 marker; cannot use the first marker of the next story to define offset of story 4 because story 5 is on different file so timing has been reset. | Will remove story 4 from the event file altogether. |
| ASAMB\_2029\_event\_RT.txt | Three story 5 markers | Removed the last story 5 marker |
| ASAMB\_2030\_1\_event\_RT.txt/  ASAMB\_2030\_2\_event\_RT.txt | ASAMB\_2030\_2\_event\_RT.txt seems to be complete, making ASAMB\_2030\_1\_event\_RT.txt redundant. | Will remove ASAMB\_2030\_1\_event\_RT.txt and the corresponding signal data. |
| ASAMB\_2033\_event\_RT.txt | Story 3 has three markers | Removed the last marker of story 3 |
| asamb\_2038\_1\_event\_RT.txt / asamb\_2038\_2\_event\_RT.txt | 1. The event names are incorrect (e.g., Keyboard 1 instead of Baseline) 2. Story 1 has three markers | 1. Corrected all event names 2. Removed first marker of story 1 |
| ASAMB\_2042\_event\_RT.txt | Story 1 has three markers (all are temporally distant from each other) while baseline only has 1 marker. | Replaced first marker of story 1 with 2nd baseline marker |
| ASAMB\_2045\_event\_RT.txt | First marker is Story 1 but should be Baseline | Replaced first story 1 marker with first baseline marker |
| asamb\_2055\_1\_event\_RT.txt / asamb\_2055\_2\_event\_RT.txt | Replaced in the event and data file. Only the second is kept. | Now uploaded only one 2055, which would have been 2055\_2 |
| **Batch 2** | | |
| 2094\_1\_RT.txt and 2094\_2\_RT.txt | Sequence numbers in signal filenames do not correspond to the sequence numbers in event file. | Renaming 2094\_1\_RT.txt -> 2094\_2\_RT.txt and 2094\_2\_RT.txt -> 2094\_1\_RT.txt |
| asamb\_2089\_1\_event\_RT.txt and asamb\_2089\_2\_event\_RT.txt | The recording timestamp of the 2nd marker for story 5 (i.e., 758.525ms) is beyond the latest recording timestamp of the 2nd (and 1st) signal file (612.998ms and 731.998ms, respectively) | In asamb\_2089\_2\_event\_RT.txt, replacing the value for *Time* in the 2nd marker for story 5 with the latest possible recording timestamp of 2089\_2\_RT.txt (i.e., 731.998). Talked to Dr. Vacaru and it is okay to do it that way. |
| asamb\_2060\_1\_event\_RT.txt and asamb\_2060\_2\_event\_RT.txt | The recording timestamp of the 2nd marker for story 1 (i.e., 845.053ms) is beyond the latest recording timestamp of the 1st signal file (i.e., 627.998ms) | In asamb\_2060\_1\_event\_RT.txt, replacing the value for *Time* in the 2nd marker for story 1 with the latest possible recording timestamp of 2060\_1\_RT.txt (i.e., 627.998). Talked to Dr. Vacaru and it is okay to do it that way. |
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