1 NIC Naming Conventions for Log Files

This naming scheme is inspired by the BIDS (Brain Imaging Data Structure) initiative. The goal of this initiative is to provide common standards for storing and naming neuroimaging data and associated files with the aim to provide sufficient information to reuse the data. Many funding agencies and research communities support this initiative. The NIC would also like to help to promote such good practices in research. Therefore, the new format for log-files acquired at the NIC should adhere the following guidelines.

1.1 Naming conventions for log/event files

sub-<studyCode-subjectCode>[_ses-<sessionLabel>]_task-<taskLabel>[_acq-<acquisitionLabel>][_run-<runLabel>]_events.<fileExtension>

Entries in [] are optional, entries in <> are placeholders. Labels should not contain spaces or underscores.

e.g.

sub-025-000001_ses-pretraining_task-stroop_acq-eeg_run-1_events.txt

- <studyCode-subjectCode>: an identifier of the NIC study number (studyCode) and a subject code that is unique within the study (subjectCode).
- <sessionLabel>: a label for a logical grouping of neuroimaging and behavioural data consistent across subjects. Session can (but doesn't have to), for example, be synonymous to a visit in a longitudinal study.
- <taskLabel>: a label for a set of activities performed by the subject that aim at eliciting changes in the brain. For the purpose of this protocol we consider the so-called "resting state" a task.
- <acquisitionLabel>: label the user may use to distinguish a different set of parameters used for acquiring the same task. For example, this label can be used to identify EEG or EDA data or other physio data.
- <runLabel>: label for an uninterrupted acquisition that has the same acquisition parameters and task (however events can change from run to run due to different subject response or randomized nature of the stimuli).

1.2 Additional File for Task Details

The BIDS recommends that event files should be accompanied by a simple data dictionary in a JSON format (see example in 1.2.1). This file should contain information about the software (name, version), the event file (date or epoch, time zone, creation time, start time, duration), and column headings of the event file (long name, description, levels, units). See example below.

1.2.1 Example

\{

```
    "Software": \{
        "Name": E-Prime,
        "Version": 2.0.10.353
    \},
    "EventFile": \{
        "EpochCreationTime": 1498656943.100534,
        "CreationTime": 13:35:43.10053
        "StartTime": 13:35:43.099974,
        "EndTime": 13:45:41.381991,
        "TimeZone": UTC,
    \},
    "education": \{
        "LongName": "Education level"
        "Description": "Education level, self-rated by participant",
        "Levels": \{
            "1": "Finished primary school",
            "2": "Finished secondary school",
            "3": "Student at university",
            "4": "Has degree from university"
        \}
    \},
    "bmi": \{
        "LongName": "Body mass index",
        "Units": "kilograms per squared meters",
        "TermURL": "http://purl.bioontology.org/ontology/SNOMEDCT/60621009"
    \}
\}
```

Further readings.