| Error | Explanation | Critical error? | Solution |
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| #1 | The name assigned to subject in meta-data (i.e. data received from dicom header) differs from the subject name assigned in the MRI-series. | No | Check whether the inconsistency is expected. Possible reason for inconsistency is automated upper-case naming of dicom filename by MR-machine; if you used lower case letters in meta-data RaBIDS returns Error #1. Other reason is costum renaming of dicom files. |
| #2 | Scan protocol not found | Yes | It is recommended to check user input in the datasheet of following object types: data exchange path, dicoms, series info, general suffix and session info. |
| #3 | Create-SOTs did not run | yes | This is a generic error message that something is wrong. Mostly, the reason is in the conditions_TaskID.xlsx file. For debugging it is recommended to check with the manual and/or the template whether all Variable names and headers are present and named correctly. Renaming and deletion of fields may happen accidently. It is worth to check whether wildcards for Log ID are appropriately set so that RaBIDS can find the logfiles of your task. If you used OffsetID to define duration, you should check whether there is an OffsetID event following each OnsetID event in the Presentation logfile. If this is not the case, use different OffsetID or define Duration instead. Also, never use wildcards in OffsetID definitions; RaBIDS recognizes logfile entries as OffsetID that contain the value defined here. |
| #4 | Both, duration and OffsetID are not defined for at least one Condition in the conditions_TaskName.xlsx file | Yes | Define either OffsetID or Duration for all Conditions |
| #5 | Create-SOTs did not run because parameter information is lacking in the conditions_TaskName.xlsx file, field 'Logfile ID format'. | Yes | Input to Logfile ID format needs to be either 'BIDS' or 'free' |
| #6 | Create-SOTs did not run because the program is not able to read the Presentation logfile. | Yes | 1.) Check whether sourcedata path is named as explained in manual.<br>2.) Check Log ID in conditions_TaskName.xlsx<br>3.) Check logfile headerlines: data expected to start not before row 5 (see create_sots.m, line 17, variable IgnoreHeaderLines. |

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| #7 | Input to the Datasheet, ObjectType ‘dicoms’, is invalid. | Yes | Change ObjectType ‘dicoms’ either to 'BIDS' or to 'allinone'. |
| #8 | A task with the specified parameters was not found for a subject/session. | No | If this is unexpected, follow steps below:<br>• If program was not able to save scan protocol with current settings, it is recommended to check user input in the datasheet of the ObjectTypes: data exchange path, dicoms, series info, general suffix and session info.<br>• If scan protocol of this subject was written to the session directory, go to datasheet and check input to the ObjectTypes MRI series, minimum and maximum images, and series info. Compare user input to these fields with scan protocol of this subject. Is MRI series ID (= name in scan protocol) and number of images (vols in scan protocol) appropriately defined? |
| #9 | A scan series was named ‘fieldmap’ but further information is missing to identify it as magnitude or phasedifference. | Yes | Series can only be called ‘fieldmap’ if a field mapping sequence was used. If a series received the TaskName ‘fieldmap’, additional information is required whether this is a magnitude or a phase-difference map. Add ‘magn’ or phasediff’ to the TaskName; e.g. ‘fieldmap magnitude’. Two independent phase images are currently not supported. |
| #10 | Program tried to access json file for fieldmap phasedifference image but no such file was found. | No, but the resulting dataset may not pass BIDS validation. | Datasets require a json file for each phasedifference map to pass BIDS validation. If you want to use fMRIPrep json files are required and you should stop the program and do below steps. The most likely reason that you receive this error is that json output is not switched on. Type “dicm2nii” in the command window to open the dicm2nii GUI and tag the option for json ouput. Press enter and close the GUI. Restart RaBIDS. |
| #11 | TE for phase-difference image is not specified in the datasheet. Fieldmap scans can be used for preprocessing of EPI images to correct for distortions in the magnetic field. For using fieldmaps, image geometry and slice orientation must be consistent with the corresponding EPI scan, and the fieldmap must have been recorded before the EPI. | No, but dataset will not pass BIDS validation | To solve this problem, open the datasheet file, go to the “series info” row of the fieldmap phase difference scan and enter TE1 and TE2 (ms) in the fields of the MinImages and MaxImages, respectively. Make sure to use the right decimal symbol (, or .) so that entered information is recognized as numbers. |

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| | Fieldmap scans return one phase difference image and 1-2 magnitude images. It may happen that only the phase-difference image is exported; in this case, ask the technical assistant to check the corresponding box in the operating software. Note that this is the typical configuration for Siemens scanners. RaBIDS does not support other configurations (v0.2.1). | | |
| #12 | No TaskName assigned to fieldmap phase difference image. | No | Optional: to assign the TaskName of an EPI MRI-series to a corresponding fieldmap scan, open the datasheet file and add '[TaskName]' to the ObjectType 'MRI series', UserInput.<br>Example: 'fieldmap phasediff [scenes] [faces]' (RaBIDS will write to the json-metadata file of this fieldmap scan to explain that this fieldmap belongs to tasks with TaskName 'scenes' and 'faces').<br>Usage recommended for preprocessing with fMRIPrep. |
| #13 | More than one nifti files found in fmap directory. | Yes | RaBIDS imports the fieldmap via dicm2nii and tries to access it for renaming it to the BIDS format. This works only in case there is one single nifti file with the expected name. When there are more than one nifti file, the most likely reason is that RaBIDS crashed/was interrupted previously and a file from a previous dicm2nii execution was not deleted. To solve this problem, go to the fmap directory and delete the nifti files with names corresponding to the MRI series ID of your fieldmap scan(s). Restart RaBIDS. |
| #14 | Nifit file with extention "nii" found instead of "nii.gz".<br>In case you have a fieldmap scan it will not be usable for preprocessing without manual changes in the code. Even worse, imported fieldmap scans may not be labeled correctly (e.g. phase-difference images may be named magnitude and vice verca). | No, but recommended to solve this problem. | RaBIDS fieldmap function writes to the fieldmap json file information about the scans (i.e. MRI series of corresponding functional tasks) that are to be used for distortion correction. By default it is assumed that the tasks have the extention ".nii.gz", corresponding to zipped nifti files. It is recommended to change existing nifti files. |
| #15 | Logfile not found for this subject/session/task | No (but dataset will not | If the logfile exists, check LogID in conditions_TaskName.xlsx file. Refer to manual. |

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| | | be BIDS compatible) | |
| #16 | Logfile directory not found for this subject/session | No (but dataset will not be BIDS compatible) | Check structure of sourcedata directory. Refer to manual. |