* Reduction\_log.hdf
  + Timestamp for the reduction process OK
  + User ID and computer OK
  + Version and build of Mantid OK
    - Mantid logging level OK?
  + Script for the reduction of a file
    - Script file name with full path OK
    - Algorithms called and version numbers OK at the end: history or log parsing
    - Parameters set by user in reduction script (absolute scale factor, for example) OK
    - Manual alterations to instrument parameters Wavelength, SDD? How to do that?
      * Flag noting that a parameter was changed
      * Reason that it was changed (optional)
    - The actual script OK
  + Metadata for the files used in reduction OK: XML/NXS → HDF. Do we need a new Loader. Can we use mantid logs? What about overwritten parameters?
    - Beam center file
    - Detector pixel map file
    - Sample files
    - Sample transmission files
    - Background files
    - Background transmission files
    - Dark current
    - Flood field
  + Reduction operation output
    - Algorithm output OK: Capture the log at the end?
      * Console output
        + Errors
        + Warnings
      * Errors highlighted independently console log parsing?
    - Derived parameters Not easy / possible?
      * Beam center, transmissions, etc.
      * Algorithm used
      * Notification of being over-ridden
        + Over-ride value(s)

Optional reason

* + The reduced data OK. How do you plan to use this? Export the data?
    - 1D data
    - 2D data

Is this a file in addition to the exported files (Iqxqy.dat, Iq.txt, etc…)