Plan for SIRF Version 1.0

This document is being superseded by github Issues and Milestones. See

https://github.com/CCPPETMR/SIRF-SuperBuild/milestones

https://github.com/CCPPETMR/SIRF/milestones

https://github.com/CCPPETMR/CCPPETMR_VM/milestones

Target date for Release Candidate end of October, Release mid November

Version 1.0 required:

- SuperBuild: use version tracking for releases (Edoardo, Ben, 08/17)
- VM: move update script to use SuperBuild (Edoardo, 09/17)
- Add automatic testing after installation/update to SIRF installation/update scripts. Run current test scripts but via CTest. (Edoardo, 09/17)
- Documentation: (Evgueni, 09/17)
    - Write appendix to User Guide for advanced users (explicit Gadgetron chains etc.).
    - Provide brief C/C++ source documentation, also on process (doxygen)
- Separate specification (*.h) from implementation (*.cpp) in C++ code. (Evgueni, 08/17)
- Software capabilities for PET real data (Kris, 11/17)
    - Unlisting of PET data (single time frame): create SIRF interface (Evgueni)
    - randoms, norm, attenuation, scatter for Siemens mMR (UCL+Nikos)
    - norm for GE Signa (Palak, Kris)
    - MRAC for GE Signa (Palak)
    - “native” reading of Siemens PET data (without conversion) (Edo, Nikos)
- Installation
    - SuperBuild for Windows. (Kris, Ben, 09/17)
    - Precompiled libraries (or Matlab toolbox/ Python pip) (Kris, Ben, Evgueni, 11/17)
- Documentation:
    - Write SIRF Developer Guide. (Evgueni 11/17)
    - Provide comprehensive C/C+++ source documentation. (Evgueni, 11/17)
    - Videos with installation and usage (Kris, Evgueni, 11/17)
- Continuous Integration testing with more tests (Edoardo, 10/17)
- Provide PET/MR phantom data and sample reconstructions (Kris, David, Christoph, 11/17)
- Other software issues: (Kris, Evgueni, 11/17)
    - Basic math manipulations for images and AcquisitionData
    - PET ObjectiveFunction
        - Image: parameters to estimate
        - AcquisitionData
        - AcquisitionModel
        - Noise model: Poisson/Gaussian etc
        - Prior

Version 1.0 Superambitious:

- Gadgetron on Windows (Kris, Ben, Evgueni, 1/18)