



GyroTools

www.gyrotools.com



ReconFrame

Recon Prototyping Environment for Scientists

Implement your reconstruction ideas efficiently and integrate them into standard workflow on Philips Achieva systems.

ReconFrame is an easy-to-use reconstruction prototyping environment for scientists featuring:

- Simple data interface to a high-level programming language (Matlab) with access to unprocessed MR raw data
- Easy and seamless integration of own Matlab reconstruction code on the system (on-line mode)
- 'Pack and go' to run full reconstruction on standalone computer (off-line mode)
- Matlab example code to reconstruct Cartesian, Radial and Spiral single and multi-coil data

Please note that installation of ReconFrame on a Philips MR system requires a valid Clinical Science agreement.

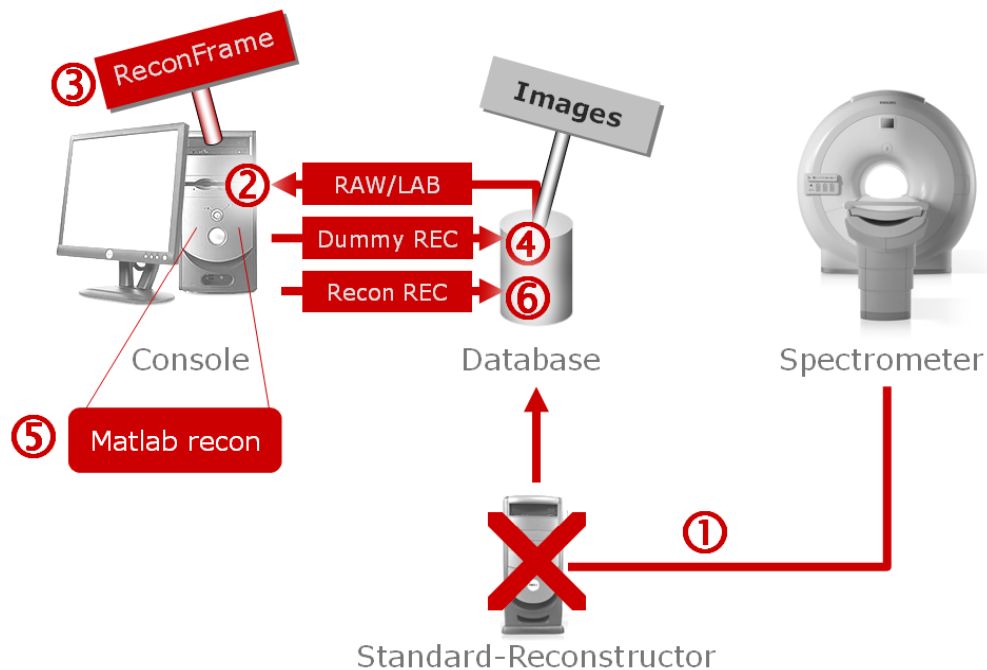
GyroTools Ltd.

Waldstrasse 4, CH-8400 Winterthur

Switzerland

Tel. +41 44 632 3549 – Fax +41 44 632 1193

www.gyrotools.com – gyrotools@gyrotools.com



ReconFrame overview and integration

With ReconFrame MR data are acquired and sent in raw data format to the console computer bypassing the original reconstruction computer (1). Once the scan is finished the raw data are retrieved from the console database (2) and ReconFrame is started (3). In a first step, ReconFrame creates so-called placeholder images in the database (4). Thereafter, raw data pre-processing is started preparing the data and interfacing to the user's reconstruction code (5). Finally, the reconstruction result is sent to the database (6) and -if consistent with the expected amount of data- replaces the placeholder images.

ReconFrame comes as a package including:

- Scanner patch for Philips Achieva systems to interface with ReconFrame
- Matlab run-time environment to run home-built recon code on the scanner
- Matlab recon example script including fundamental pre-processing steps to reconstruct Cartesian, Radial and Spiral k-space data

Please contact us for further information about ReconFrame.