This diagram presents the preliminary architecture of the MPEG-4 point cloud codec. This architecture is expected to evolve over time with contributions from different proponents. The goal of this document is to solicit extensions to this model and help proponents to understand the current PCC Reference software. This will be a working document that can evolve over time with contributions to this codec. It is important to keep a working reference software implementation at all times to allow fair performance assessment and benchmarking. For questions contact Rufael Mekuria: rufael.mekuria@cwi.nl