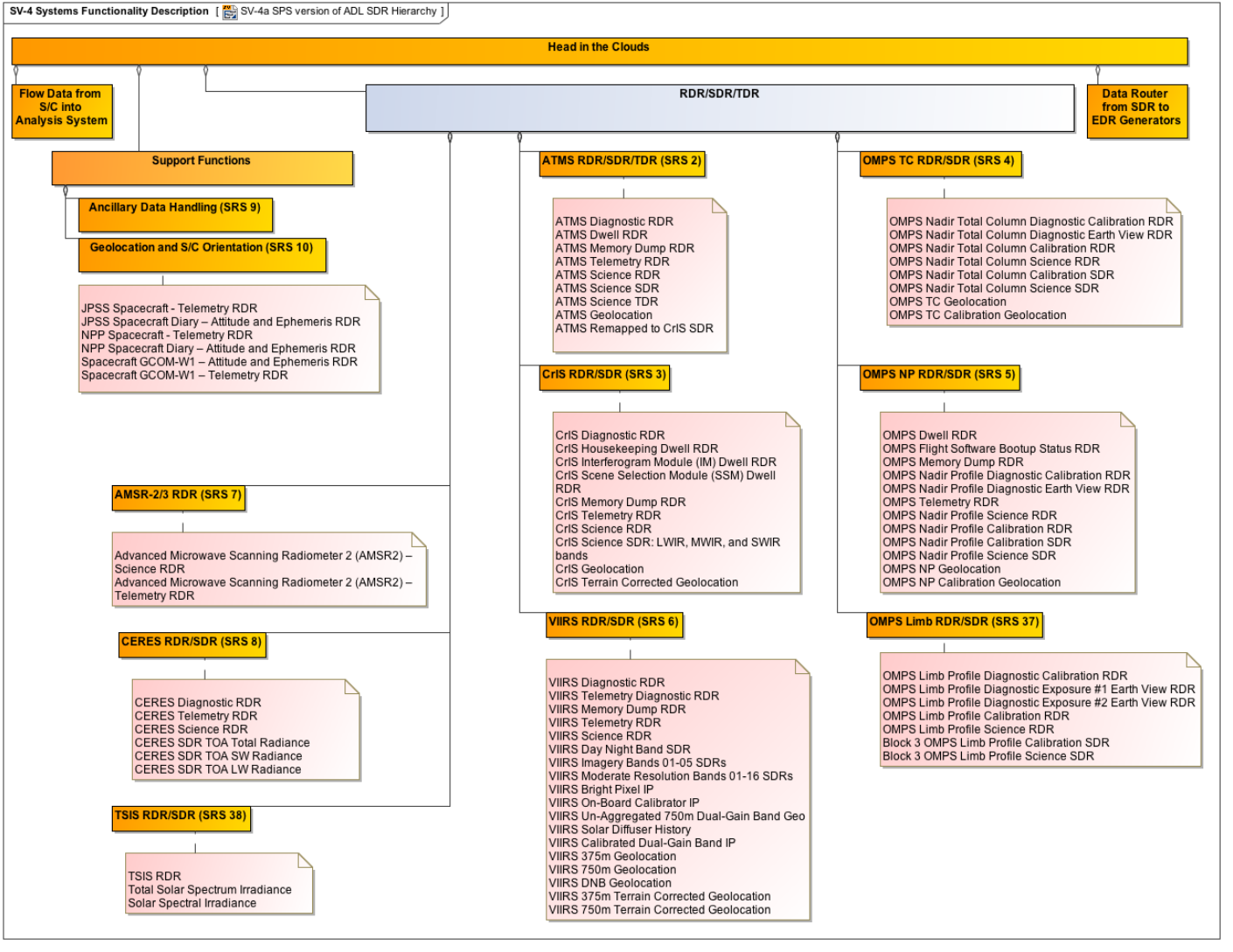SDR Hierarchy