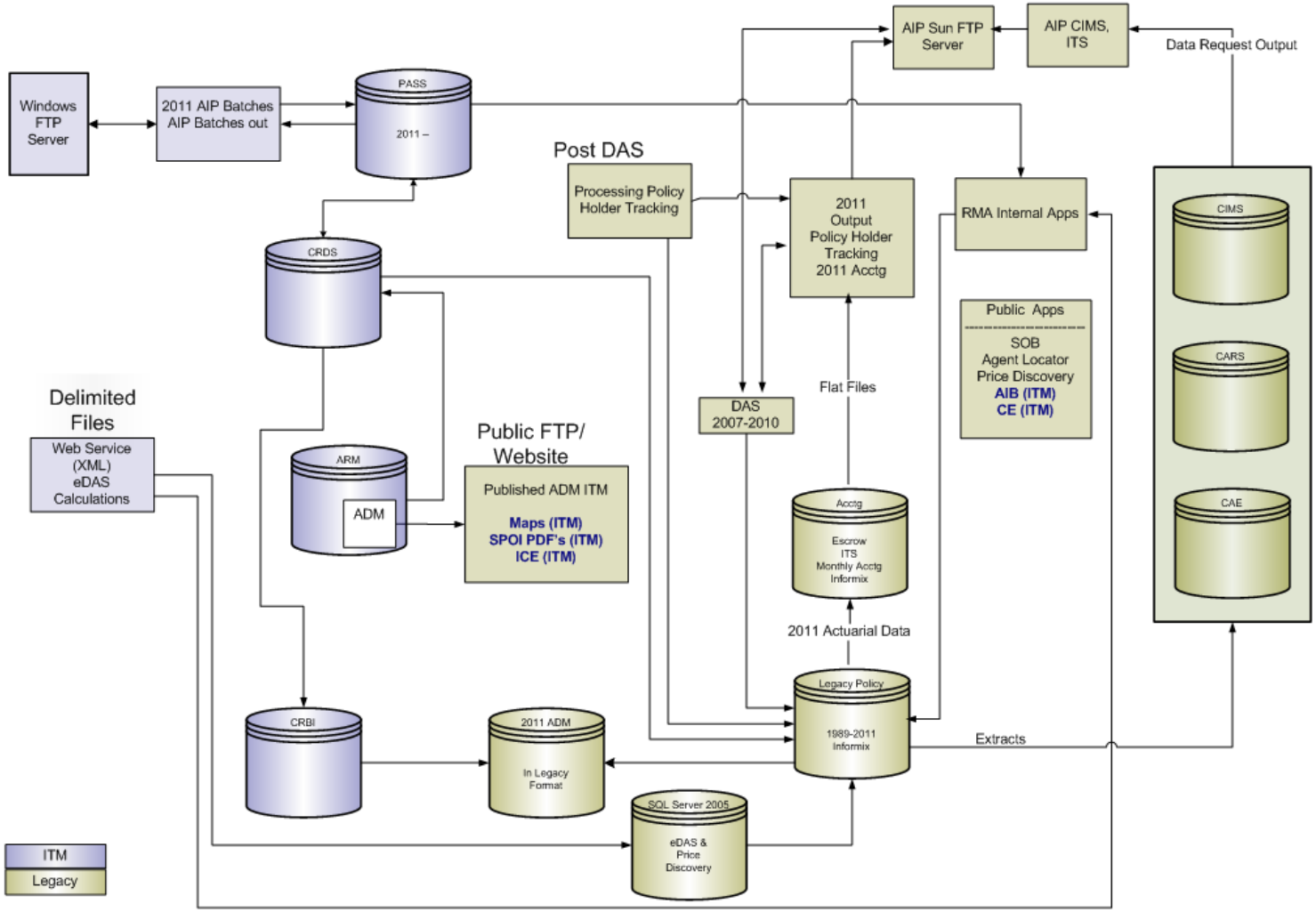RY2012 Data Flow