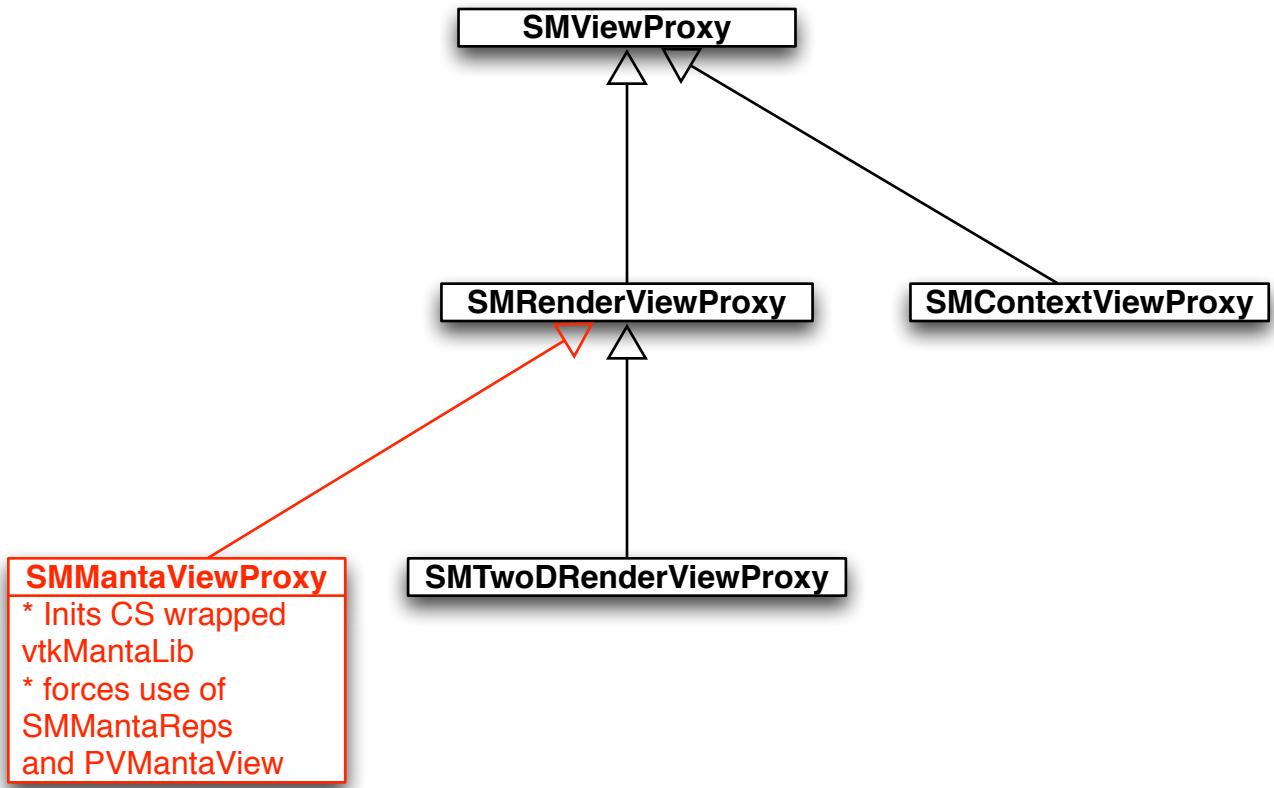
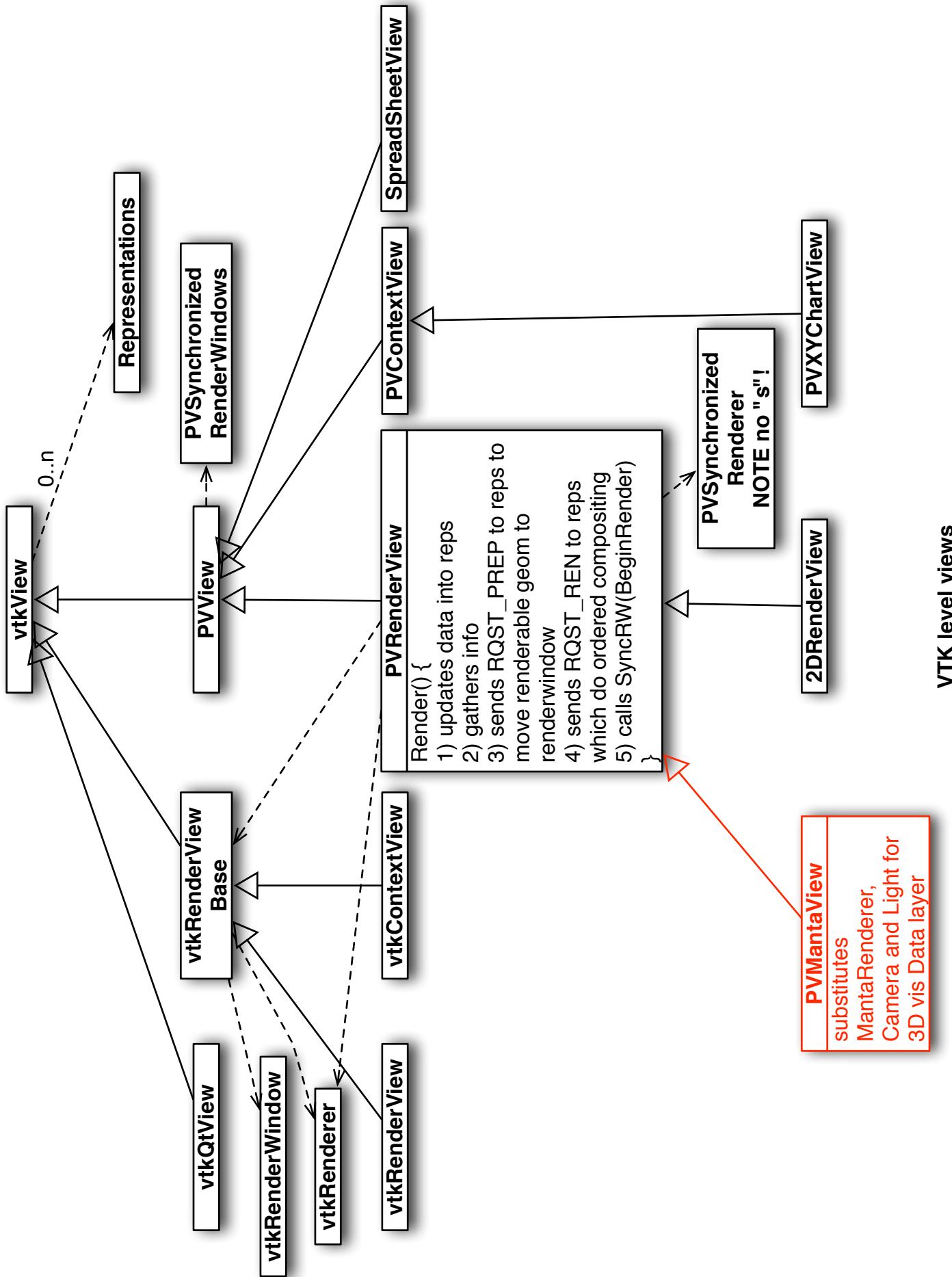


ParaQ level view classes that interface to GUI



**ServerManager View classes to control the remote/parallel vtk views**



GeometryRepresentation, UnstructuredGridRepresentation, UniformGridRepresentation,

**MantaGeometryRepresentation**

MantaRep uses MantaSurfaceRep for pts, lines, surface rendering



**top level representation for something shown in a view**

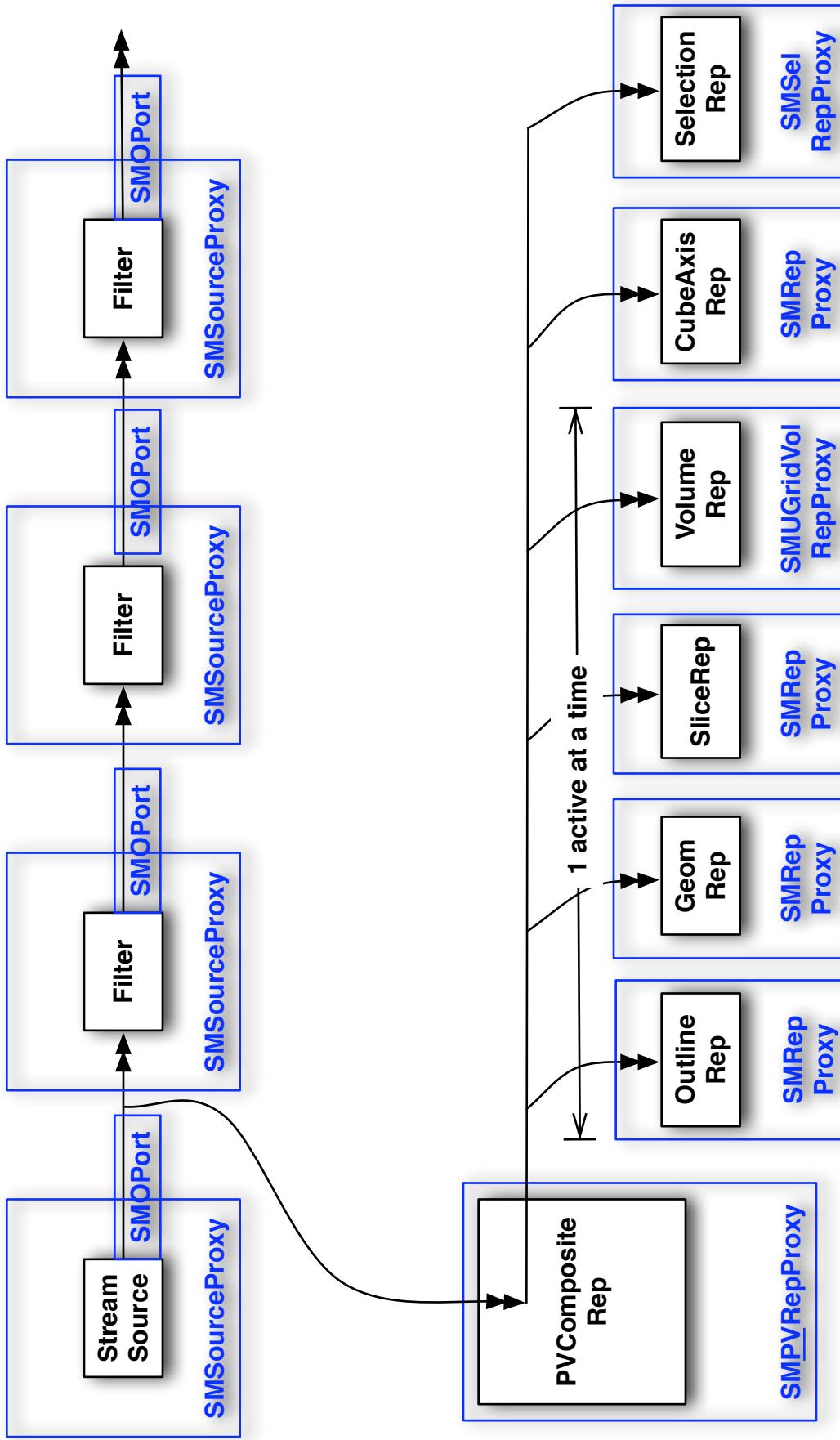
it holds many internal representations (see next three pages)

each sub representation shows the thing in a different way (volume render/surface/outline etc)

this will show 1 subrepresentation from that set

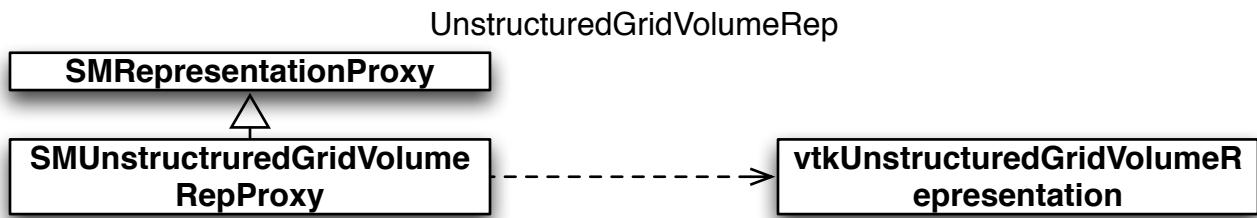
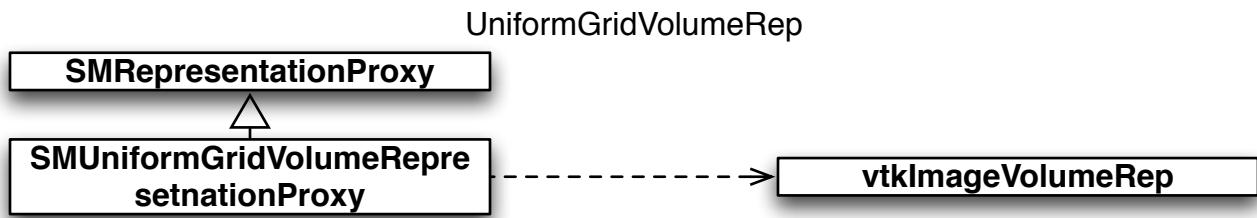
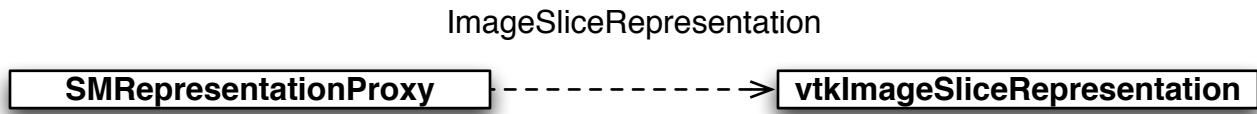
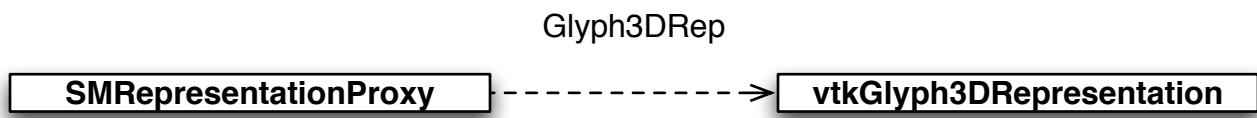
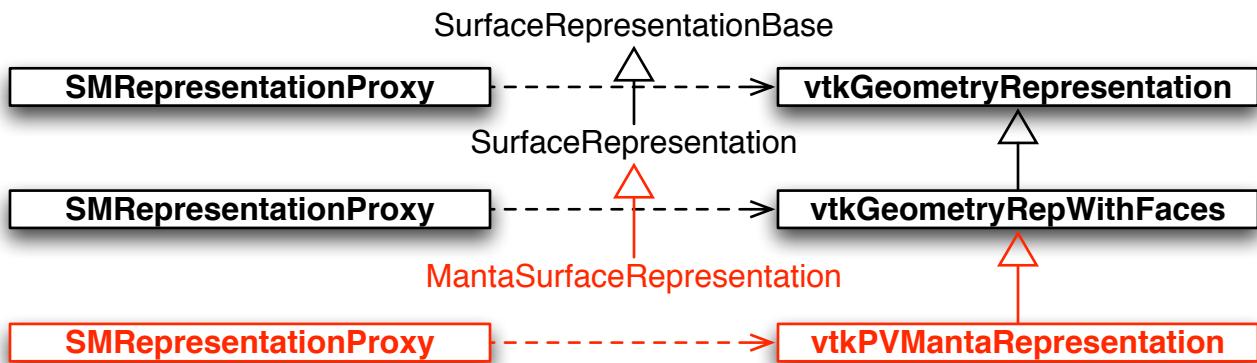
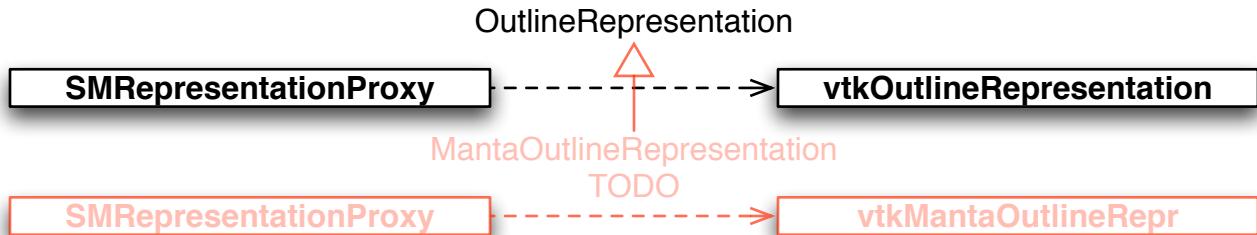
and at the same time show the selection and cube axis sub representations

**3 "class" hierarchies, SM classes, XML configurations of those, and VTK level**

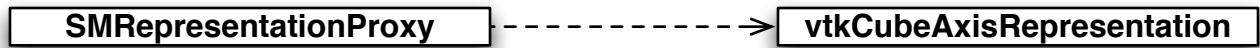


PV pipeline and display of one filter in it into one RenderView

blue boxes are SM wrappers that ParaView uses for control  
black boxes are VTK classes possibly instantiated remotely and in parallel



CubeAxisRep

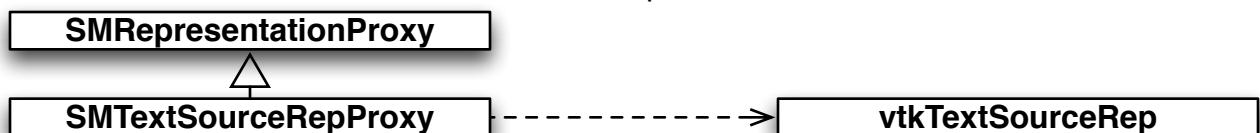


SelectionRepresentation



selection internally has a  
text representation for labels and  
a geometry representation to highlight selected entities

TextSourceRepresentation

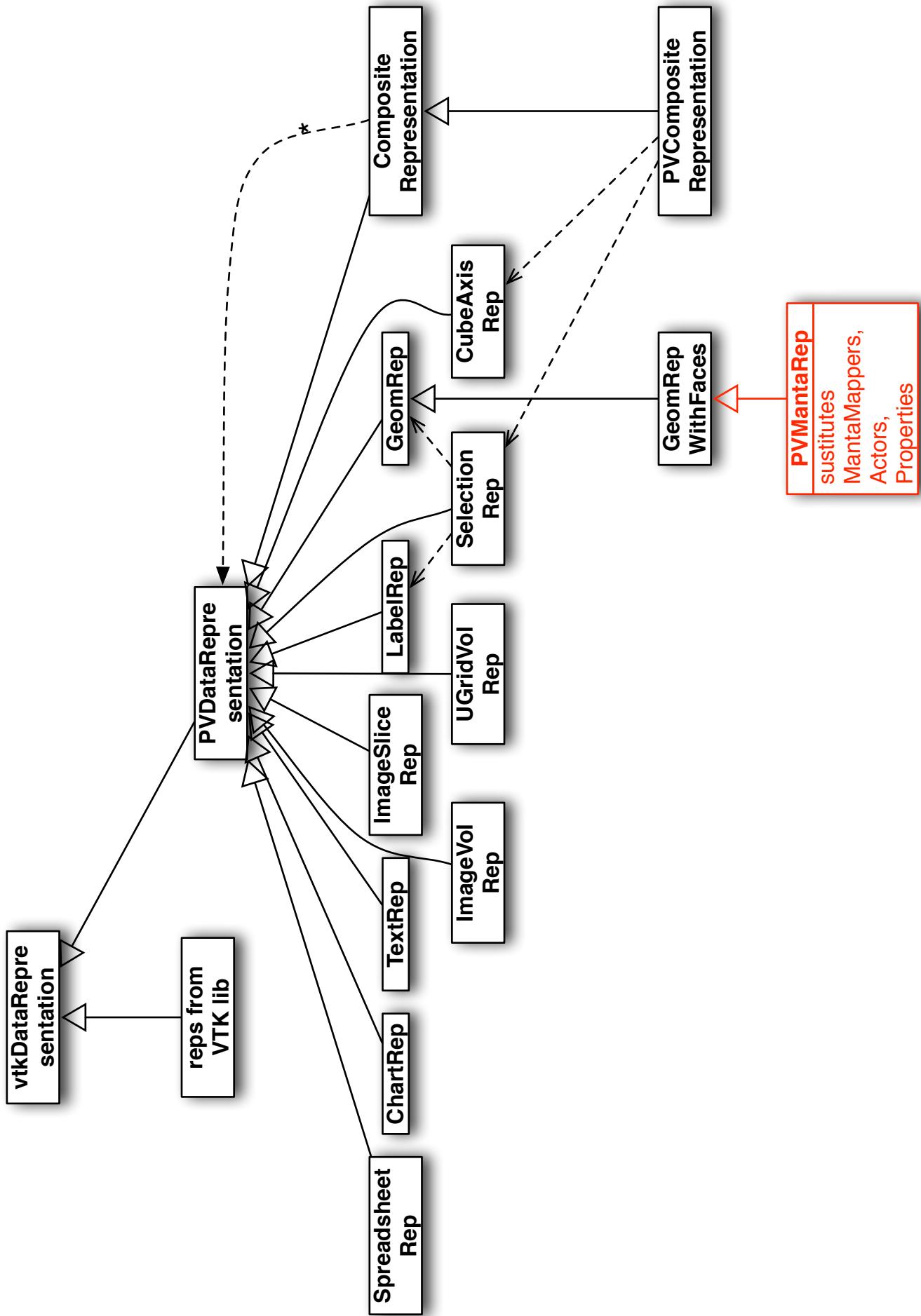


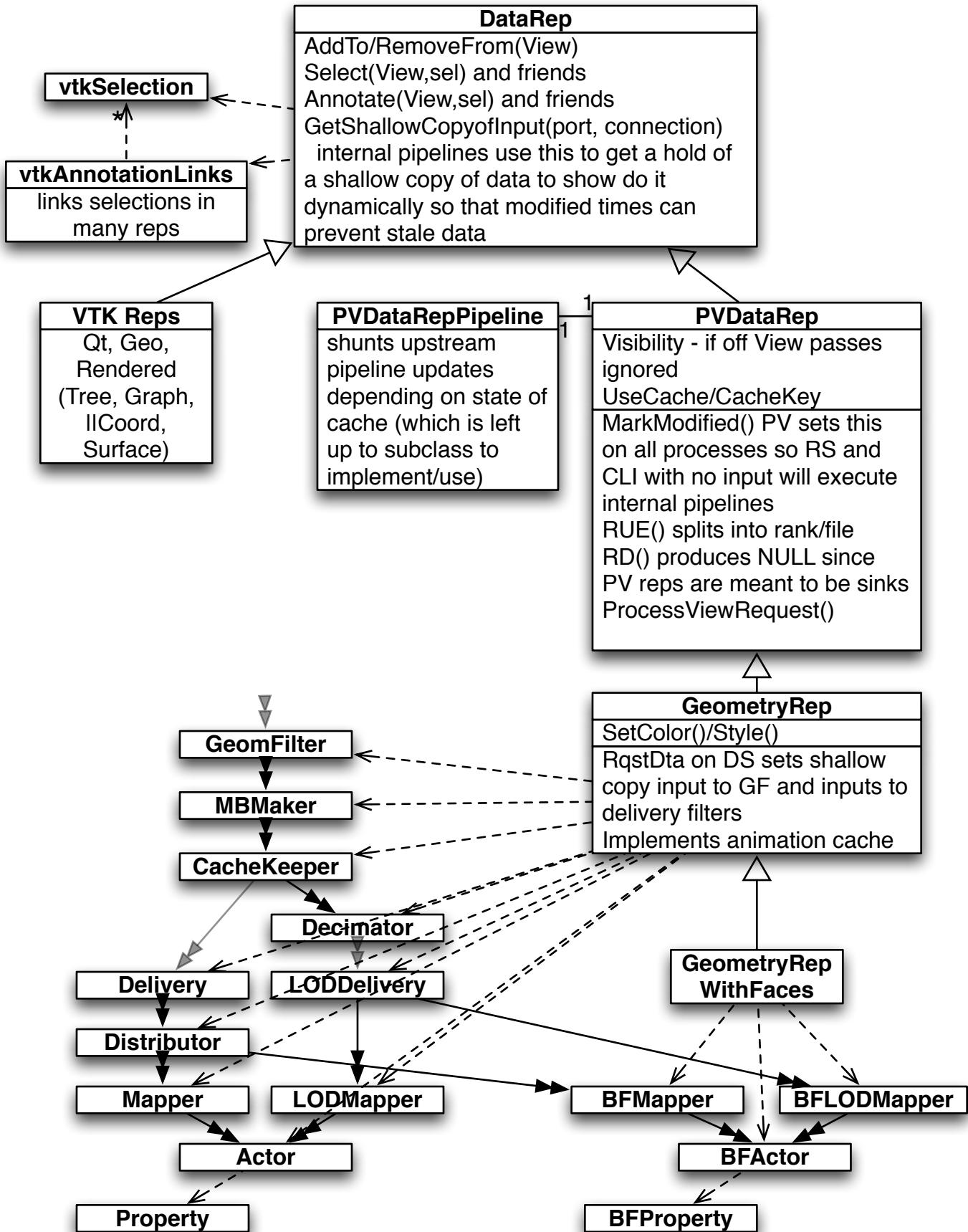
XYChartRep, XYBarChartRep

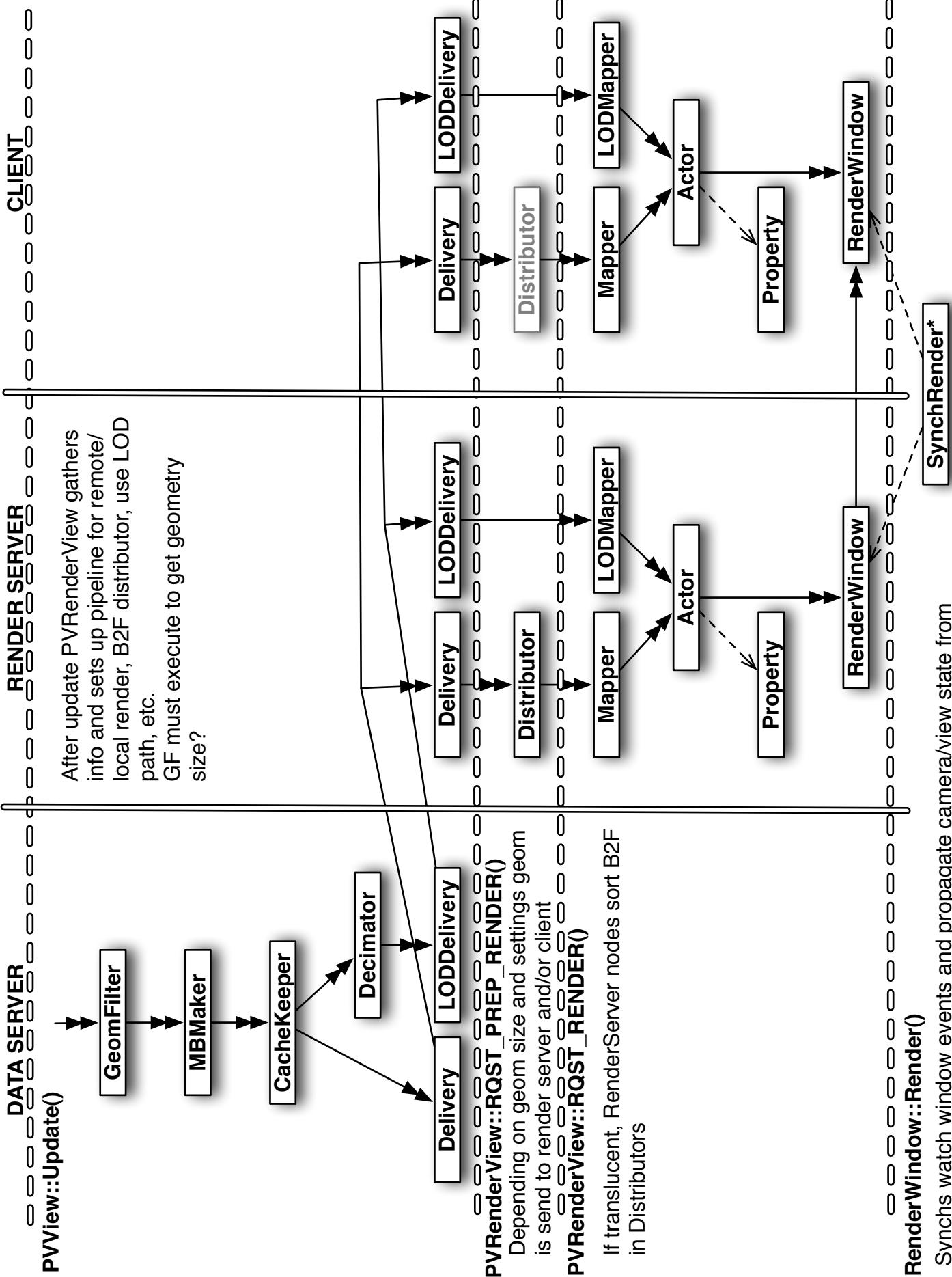


SpreadsheetRepresentation





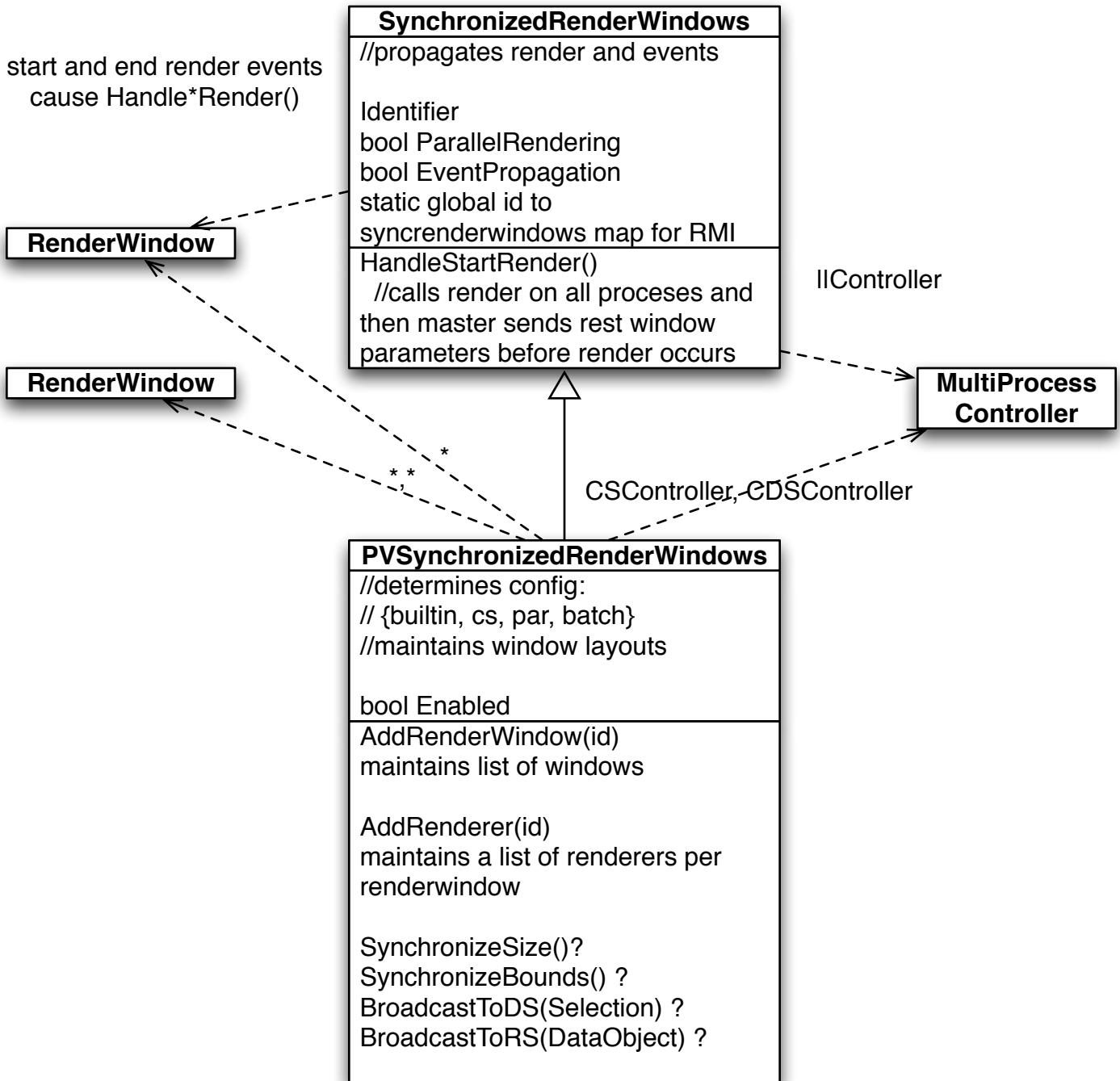




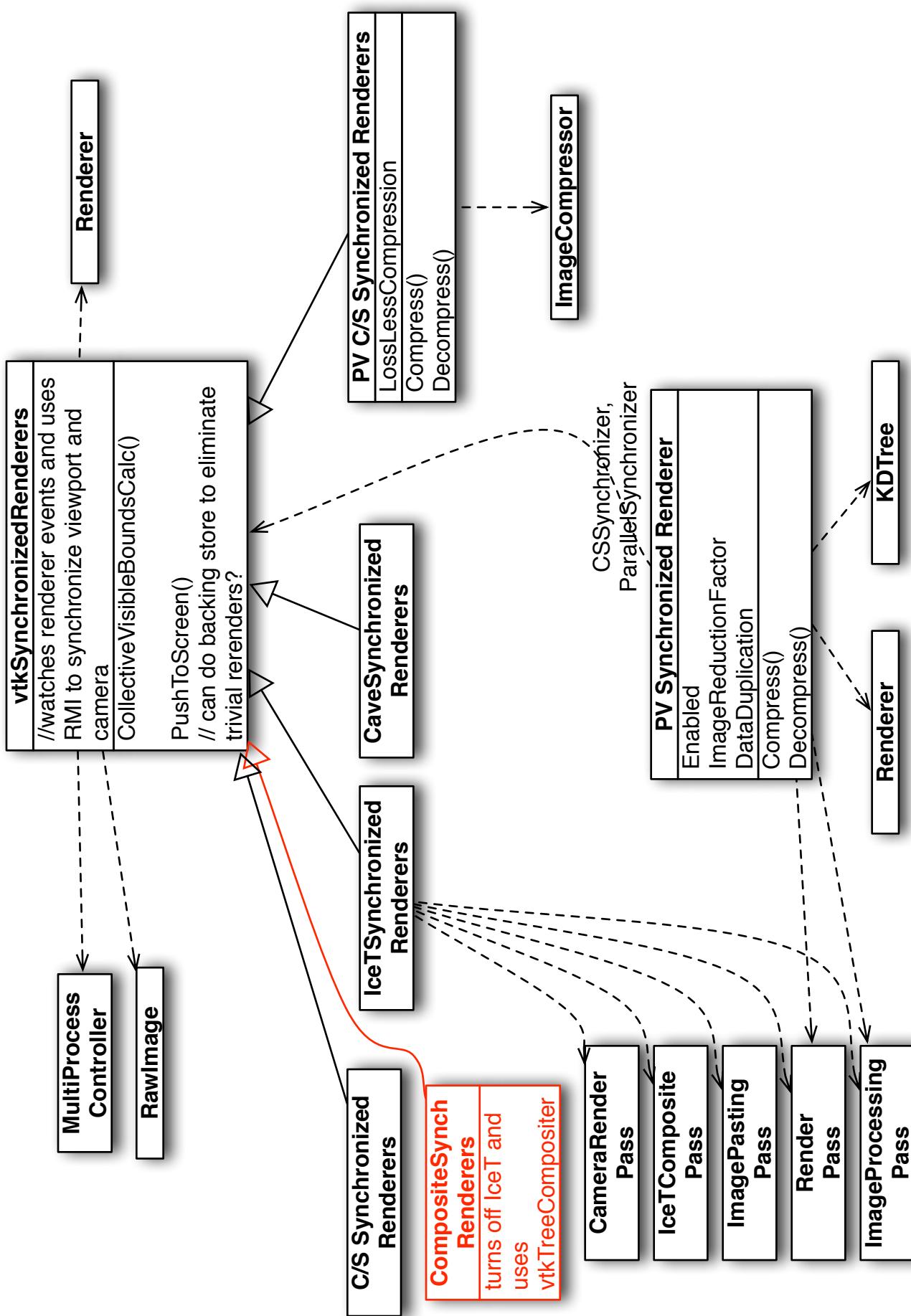
**RenderWindow::Render()**

Synchs watch window events and propagate camera/view state from client to servers.

In SS rendering, synchs also watch events to composite on server and then deliver pixels from server to client



parallel window synchronization



parallel renderer synchronization, composite and s->c delivery