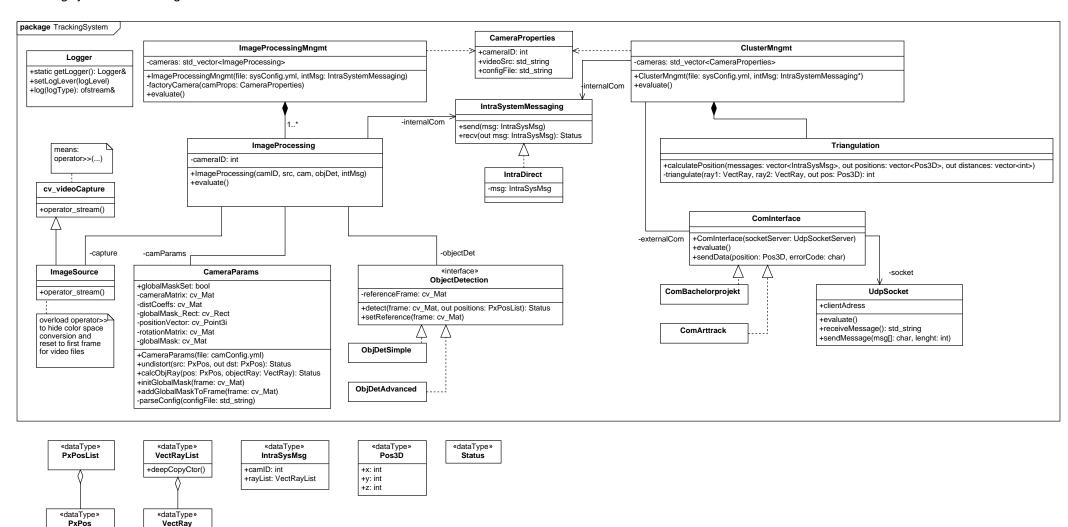
TrackingSystem::ClassDiagram

+x: float

+y: float

+pos: Pos3D

+dir: Pos3D



TrackingSystem::DataModels::config files

camConfig.yml

-timestamp

-datetime: std_string +cameraMatrix: cv_Mat +distCoeffs: cv_Mat +globalMask: cv_Rect +positionVector: cv_Point3i +rotationMatrix: cv_Mat -viewingCenter: cv_Point3i -viewingRight: cv_Point3i legend:

private: used by calibration tools public: used by tracking system

using the openCV FileStorage class to write xml and yaml

cameraConfig will be converted to yaml, because the file content is incompatible to the previous system anyway.

sysConfig.yml

+objectDetectionUsed: std_string +cameras[1..*]: CameraProperties +comInterfaceUsed: std_string

+port: int

1..* +camera

CameraProperties

+cameralD: int +videoSrc: std_string +configFile: std_string cameralD: for intra system messaging VideoSrc: for cv::videoCapture

configFile: some relative file path