smacc2::ISmaccClientBehavior stateMachine currentState - currentOrthogonal + ISmaccClientBehavior() + ~ISmaccClientBehavior() + getStateMachine() + getName() + requiresClient() + requiresComponent() # runtimeConfigure() # onEntry() # onExit() # postEvent() # postEvent() # getCurrentState() # dispose() #getNode() # getLogger() - executeOnEntry() executeOnExit() - onOrthogonalAllocation() Δ smacc2::SmaccAsyncClient Behavior - on Entry Thread onExitThread postFinishEventFn postSuccessEventFn postFailureEventFn_ smacc2::ISmaccUpdatable onFinished -onSuccess_ periodDuration_ - onFailure - lastUpdate isShutdownRequested + ISmaccUpdatable() + onOrthogonalAllocation() + ISmaccUpdatable() + ~SmaccAsyncClientBehavior() + executeUpdate() + onSuccess() + setUpdatePeriod() + onFinished() # update() + onFailure() # postSuccessEvent() # postFailureEvent() # dispose() #isShutdownRequested() - waitFutureIfNotFinished() executeOnEntry() executeOnExit() cl_move_group_interface ::CbMoveEndEffectorTrajectory + group + tipLink + allowInitialTrajectoryState JointDiscontinuity_ # endEffectorTrajectory_ # movegroupClient_ # beahiorMarkers - markersPub markersInitialized - iksrv - m_ mutex postJointDiscontinuityEvent - postIncorrectInitialState -postMotionExecutionFailure **Events** autocleanmarkers + CbMoveEndEffectorTrajectory() + CbMoveEndEffectorTrajectory() + onOrthogonalAllocation() + onEntry() + onExit() + update() # computeJointSpaceTrajectory() # executeJointSpaceTrajectory() # generateTrajectory() # createMarkers() # getCurrentEndEffectorPose() - initializeROS() cl_move_group_interface ::CbCircularPivotMotion + angularSpeed_rad_s_ + linearSpeed_m_s_ + relativeInitialPose_ # planePivotPose_ # deltaRadians + CbCircularPivotMotion() + CbCircularPivotMotion() + CbCircularPivotMotion()

+ generateTrajectory()
+ createMarkers()

- computeCurrentEndEffector PoseRelativeToPivot()

cl_move_group_interface ::CbEndEffectorRotate

+ CbEndEffectorRotate() + ~CbEndEffectorRotate()

+ tipLink

+ onEntry()