## smacc2::ISmaccClientBehavior stateMachine\_ currentState currentOrthogonal + ISmaccClientBehavior() + ~ISmaccClientBehavior() + getStateMachine() getName() + requiresClient() + requiresComponent() + onEntry() onExit() + executeOnEntry() executeOnExit() # runtimeConfigure() # postEvent() # postEvent() # getCurrentState() # dispose() # getNode() # getLogger() onOrthogonalAllocation() smacc2::SmaccAsyncClient Behavior onEntryThread\_ onExitThread\_ postFinishEventFn\_ postSuccessEventFn\_ postFailureEventFn\_ onFinished\_ onSuccess\_ onFailure\_ - isShutdownRequested smacc2::ISmaccUpdatable + onOrthogonalAllocation() periodDuration\_ + ~SmaccAsyncClientBehavior() lastUpdate\_ + onSuccess() + ISmaccUpdatable() + onFinished() + ISmaccUpdatable() + onFailure() + executeUpdate() + requestForceFinish() setUpdatePeriod() + executeOnEntry() # update() + executeOnExit() + waitOnEntryThread() + onSuccess() + onFinished() + onFailure() # postSuccessEvent() # postFailureEvent() # dispose() # isShutdownRequested() - waitFutureIfNotFinished() cl\_moveit2z::CbMoveEndEffector Trajectory + group\_ + tipLink\_ + allowInitialTrajectoryState JointDiscontinuity\_ # endEffectorTrajectory\_

- # movegroupClient
- # beahiorMarkers\_ - markersPub
- markersInitialized
- iksrv
- m mutex - postJointDiscontinuityEvent
- postIncorrectInitialState Event
- postMotionExecutionFailure **Events**
- + CbMoveEndEffectorTrajectory()
- + CbMoveEndEffectorTrajectory()
- + onOrthogonalAllocation() + onEntry()

- autocleanmarkers

- + onExit() + update()
- # executeJointSpaceTrajectory()
- # computeJointSpaceTrajectory()
- # generateTrajectory()
- # createMarkers()
- # getCurrentEndEffectorPose()

initializeROS()

- cl\_moveit2z::CbUndoLastTrajectory backIndex\_
  - trajectory
  - reversed CbUndoLastTrajectory()
  - CbUndoLastTrajectory()
  - ~CbUndoLastTrajectory()
  - onEntry() generateTrajectory()