## 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()