```
{smacc::ISmaccClientBehavior
|- stateMachine_
 - currentState
 - currentOrthogonal
|+ ISmaccClientBehavior()
 + ~ISmaccClientBehavior()
 + getStateMachine()
 + getName()
 + requiresClient()
 + requiresComponent()
 + getNode()
 # runtimeConfigure()
 # onEntry()
 # onExit()
 # postEvent()
 # postEvent()
 # getCurrentState()
 # executeOnEntry()
 # executeOnExit()
 # dispose()
 - onOrthogonalAllocation()
                              }
```

```
{smacc::SmaccAsyncClientBehavior
|- onEntryThread_
 - onExitThread_
 - postFinishEventFn_
 - postSuccessEventFn_
 - postFailureEventFn_
 - onFinished_
 - onSuccess_
 - onFailure_
|+ onOrthogonalAllocation()
 + ~SmaccAsyncClientBehavior()
 + onSuccess()
 + onFinished()
 + onFailure()
 # executeOnEntry()
 # executeOnExit()
 # postSuccessEvent()
 # postFailureEvent()
 # dispose()
                              }
```

```
{smacc::ISmaccUpdatable
|- periodDuration_
 - lastUpdate_
|+ ISmaccUpdatable()
 + ISmaccUpdatable()
 + executeUpdate()
 + setUpdatePeriod()
 # update()
                    }
```

```
{cl_move_group_interface
   ::CbMoveEndEffectorTrajectory
|+ group_
 + tipLink_
 + allowInitialTrajectoryState
JointDiscontinuity_
 # endEffectorTrajectory_
 # movegroupClient_
 # beahiorMarkers_
 - markersPub_
 - markersInitialized_
 - iksrv_
 - m_mutex_
 - postJointDiscontinuityEvent
 - postIncorrectInitialState
Event
 - 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
   ::CbCircularPouringMotion
|+ angularSpeed_rad_s_
 + linearSpeed_m_s_
 + directionVector_
 + pointerRelativePose_
 + relativePivotPoint_
 # deltaHeight_
 # pointerTrajectory_
 - globalFrame_
|+ CbCircularPouringMotion()
 + generateTrajectory()
 + createMarkers()
 - computeCurrentEndEffector
PoseRelativeToPivot()
                         }
```

```
{cl_move_group_interface
   ::CbExecuteLastTrajectory
||+ CbExecuteLastTrajectory()
 + ~CbExecuteLastTrajectory()
 + onEntry()
                         }
```

```
{cl_move_group_interface
   ::CbMoveCartesianRelative2
|+ offset_
 + linearSpeed_m_s_
 - globalFrame_
|+ CbMoveCartesianRelative2()
 + CbMoveCartesianRelative2()
 + generateTrajectory()
                            }
```

```
{cl_move_group_interface
   ::CbUndoLastTrajectory
|- backIndex_
 - trajectory
 - reversed
|+ CbUndoLastTrajectory()
 + CbUndoLastTrajectory()
 + ~CbUndoLastTrajectory()
 + onEntry()
                          }
```

```
{cl_move_group_interface
   ::CbEndEffectorRotate
||+ CbEndEffectorRotate()
 + ~CbEndEffectorRotate()
 + onEntry()
                        }
```