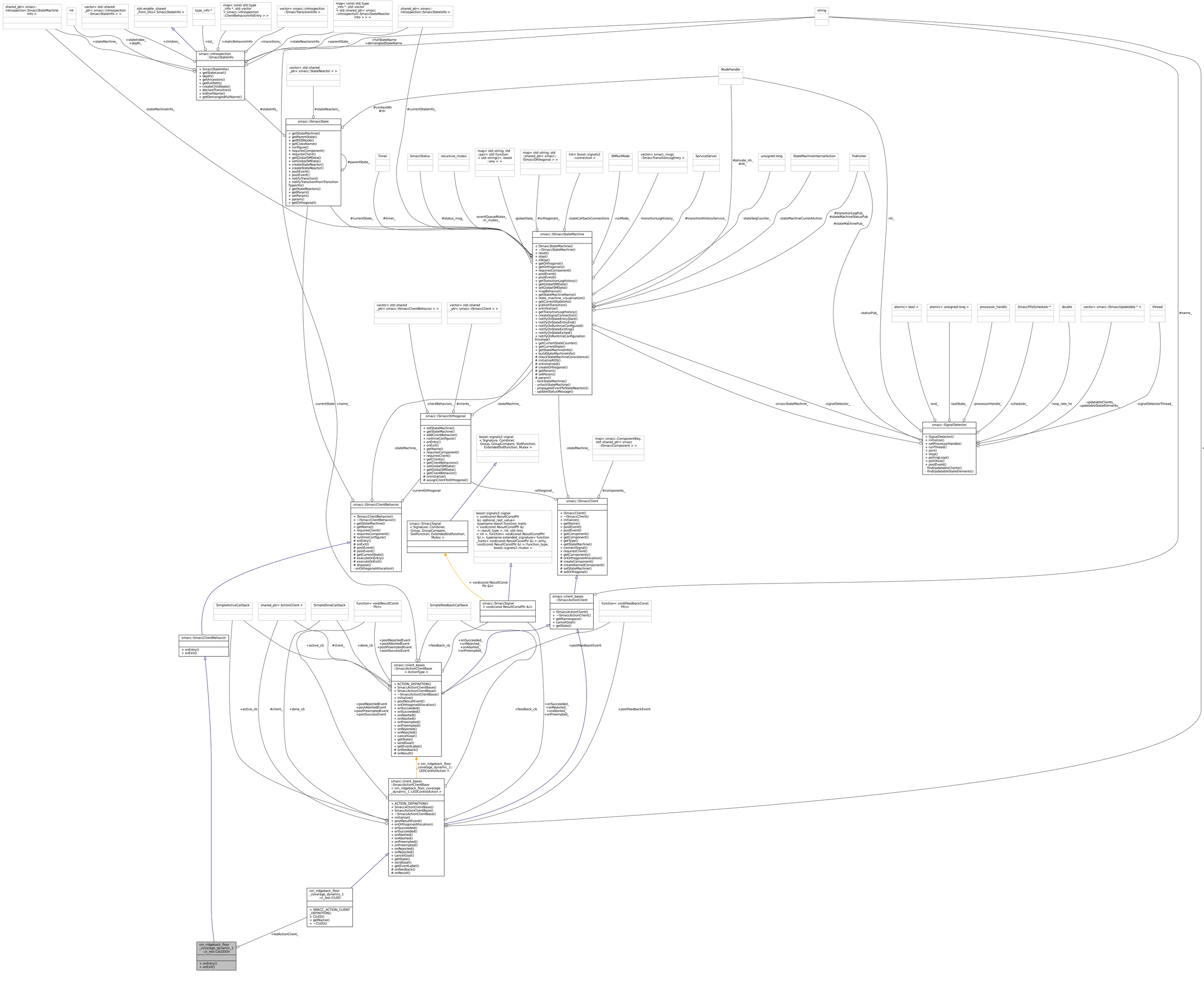
shared_ptr< smacc::introspection::SmaccStateMachineInfo >
int
vector< std::shared_ptr< smacc::introspection::SmaccStateInfo > >
std::enable_shared_from_this< SmaccStateInfo >
type_info *
map< const std::type_info *, std::vector< smacc::introspection::ClientBehaviorInfoEntry > >
vector< smacc::introspection::SmaccTransitionInfo >
map< const std::type_info *, std::vector< smacc::introspection::SmaccStateReactorInfo > >
shared_ptr< smacc::introspection::SmaccStateInfo >
string
+stateMachine_
+stateIndex_
+depth_
+children_
+tid_
+staticBehaviorInfo
+transitions_
+stateReactorsInfo
+parentState_
+fullStateName
+demangledStateName
smacc::introspection::SmaccStateInfo
+ SmaccStateInfo()
+ getStateLevel()
+ depth()
+ getAncestors()
+ getFullPath()
+ createChildState()
+ declareTransition()
+ toShortName()
+ getDemangledFullName()
-stateMachineInfo_
#stateInfo_
vector< std::shared_ptr< smacc::StateReactor > >
#stateReactors_
NodeHandle
#contextNh
#nh
#currentStateInfo_
smacc::ISmaccState
+ getStateMachine()
+ getParentState()
+ getROSNode()
+ getClassName()
+ configure()
+ requiresComponent()
+ requiresClient()
+ getGlobalSMData()
+ setGlobalSMData()
+ createStateReactor()
+ createStateReactor()
+ postEvent()
+ postEvent()
+ notifyTransition()
+ notifyTransitionFromTransitionTypeInfo()
+ getStateReactors()
+ getParam()
+ setParam()
+ param()
+ getOrthogonal()
#parentState_
Timer
SmaccStatus
recursive_mutex
map< std::string, std::pair< std::function< std::string()>, boost::any > >
map< std::string, std::shared_ptr< smacc::ISmaccOrthogonal > >
list< boost::signals2::connection >
SMRunMode
vector< smacc_msgs::SmaccTransitionLogEntry >
ServiceServer
#private_nh_
#nh_
unsigned long
StateMachineInternalAction
Publisher
#currentState_
#timer_
#status_msg_
-eventQueueMutex_
-m_mutex_
-globalData_
#orthogonals_
-stateCallbackConnections
-runMode_
-transitionLogHistory_
#transitionHistoryService_
-stateSeqCounter_
-stateMachineCurrentAction
#transitionLogPub_
#stateMachineStatusPub
#stateMachinePub_
-nh_
smacc::ISmaccStateMachine
+ ISmaccStateMachine()
+ ~ISmaccStateMachine()
+ reset()
+ stop()
+ eStop()
+ getOrthogonal()
+ getOrthogonals()
+ requiresComponent()
+ postEvent()
+ postEvent()
+ getTransitionLogHistory()
+ getGlobalSMData()
+ setGlobalSMData()
+ mapBehavior()
+ getStateMachineName()
+ state_machine_visualization()
+ getCurrentStateInfo()
+ publishTransition()
+ onInitialize()
+ getTransitionLogHistory()
+ createSignalConnection()
+ notifyOnStateEntryStart()
+ notifyOnStateEntryEnd()
+ notifyOnRuntimeConfigured()
+ notifyOnStateExitting()
+ notifyOnStateExited()
+ notifyOnRuntimeConfiguration Finished()
+ getCurrentStateCounter()
+ getCurrentState()
+ getStateMachineInfo()
+ buildStateMachineInfo()
+ checkStateMachineConsistence()
# initializeROS()
# onInitialized()
# createOrthogonal()
# getParam()
# setParam()
# param()
- lockStateMachine()
- unlockStateMachine()
- propagateEventToStateReactors()
- updateStatusMessage()
-statusPub_
atomic< bool >
atomic< unsigned long >
processor_handle
SmaccFifoScheduler *
double
vector< smacc::ISmaccUpdatable * >
thread
#name_
vector< std::shared_ptr< smacc::ISmaccClientBehavior > >
vector< std::shared_ptr< smacc::ISmaccClient > >
-currentState_
+name_
-clientBehaviors_
#clients_
-stateMachine_
-smaccStateMachine_
-signalDetector_
-end_
-lastState_
-processorHandle_
-scheduler_
-loop_rate_hz
-updatableClients_
-updatableStateElements
-signalDetectorThread_
smacc::ISmaccOrthogonal
+ setStateMachine()
+ getStateMachine()
+ addClientBehavior()
+ runtimeConfigure()
+ onEntry()
+ onExit()
+ getName()
+ requiresComponent()
+ requiresClient()
+ getClients()
+ getClientBehaviors()
+ setGlobalSMData()
+ getGlobalSMData()
+ getClientBehavior()
# onInitialize()
# assignClientToOrthogonal()
boost::signals2::signal< Signature, Combiner, Group, GroupCompare, SlotFunction, ExtendedSlotFunction, Mutex >
map< smacc::ComponentKey, std::shared_ptr< smacc::ISmaccComponent > >
smacc::SignalDetector
+ SignalDetector()
+ initialize()
+ setProcessorHandle()
+ runThread()
+ join()
+ stop()
+ pollingLoop()
+ pollOnce()
+ postEvent()
- findUpdatableClients()
- findUpdatableStateElements()
-stateMachine_
-currentOrthogonal
-orthogonal_
#components_
smacc::ISmaccClientBehavior
+ ISmaccClientBehavior()
+ ~ISmaccClientBehavior()
+ getStateMachine()
+ getName()
+ requiresClient()
+ requiresComponent()
# runtimeConfigure()
# onEntry()
# onExit()
# postEvent()
# postEvent()
# getCurrentState()
# executeOnEntry()
# executeOnExit()
# dispose()
- onOrthogonalAllocation()
smacc::ISmaccClient
+ ISmaccClient()
+ ~ISmaccClient()
+ initialize()
+ getName()
+ postEvent()
+ postEvent()
+ getComponent()
+ getComponent()
+ getType()
+ getStateMachine()
+ connectSignal()
+ requiresClient()
+ getComponents()
# onOrthogonalAllocation()
# createComponent()
# createNamedComponent()
# setStateMachine()
# setOrthogonal()
smacc::SmaccSignal< Signature, Combiner, Group, GroupCompare, SlotFunction, ExtendedSlotFunction, Mutex >
boost::signals2::signal< void(const ResultConstPtr &), optional_last_value< typename boost::function_traits< void(const ResultConstPtr &) >::result_type >, int, std::less< int >, function< void(const ResultConstPtr &) >, typename extended_signature< function_traits< void(const ResultConstPtr &) >::arity, void(const ResultConstPtr &) >::function_type, boost::signals2::mutex >
< void(const ResultConst Ptr &)>
smacc::client_bases ::ISmaccActionClient
+ ISmaccActionClient()
+ ~ISmaccActionClient()
+ getNamespace()
+ cancelGoal()
+ getState()
function< void(FeedbackConst Ptr)>
SimpleActiveCallback
shared_ptr< ActionClient >
SimpleDoneCallback
function< void(ResultConst Ptr)>
SimpleFeedbackCallback
smacc::SmaccClientBehavior
+ onEntry()
+ onExit()
+active_cb
#client_
+done_cb
+postRejectedEvent
+postAbortedEvent
+postPreemptedEvent
+postSuccessEvent
+feedback_cb
+onSucceeded_
+onRejected_
+onAborted_
+onPreempted_
+postFeedbackEvent
smacc::client_bases ::SmaccActionClientBase < ActionType >
+ ACTION_DEFINITION()
+ SmaccActionClientBase()
+ SmaccActionClientBase()
+ ~SmaccActionClientBase()
+ initialize()
+ postResultEvent()
+ onOrthogonalAllocation()
+ onSucceeded()
+ onSucceeded()
+ onAborted()
+ onAborted()
+ onPreempted()
+ onPreempted()
+ onRejected()
+ onRejected()
+ cancelGoal()
+ getState()
+ sendGoal()
+ getEventLabel()
# onFeedback()
# onResult()
< sm_ridgeback_floor_coverage_dynamic_1::LEDControlAction >
smacc::client_bases ::SmaccActionClientBase < sm_ridgeback_floor_coverage_dynamic_1::LEDControlAction >
+ ACTION_DEFINITION()
+ SmaccActionClientBase()
+ SmaccActionClientBase()
+ ~SmaccActionClientBase()
+ initialize()
+ postResultEvent()
+ onOrthogonalAllocation()
+ onSucceeded()
+ onSucceeded()
+ onAborted()
+ onAborted()
+ onPreempted()
+ onPreempted()
+ onRejected()
+ onRejected()
+ cancelGoal()
+ getState()
+ sendGoal()
+ getEventLabel()
# onFeedback()
# onResult()
sm_ridgeback_floor_coverage_dynamic_1::cl_led::CbLEDOn
+ onEntry()
+ onExit()
+ledActionClient_
sm_ridgeback_floor_coverage_dynamic_1::cl_led::CbLED
+ SMACC_ACTION_CLIENT_DEFINITION()
+ CbLED()
+ getName()
+ ~CbLED()