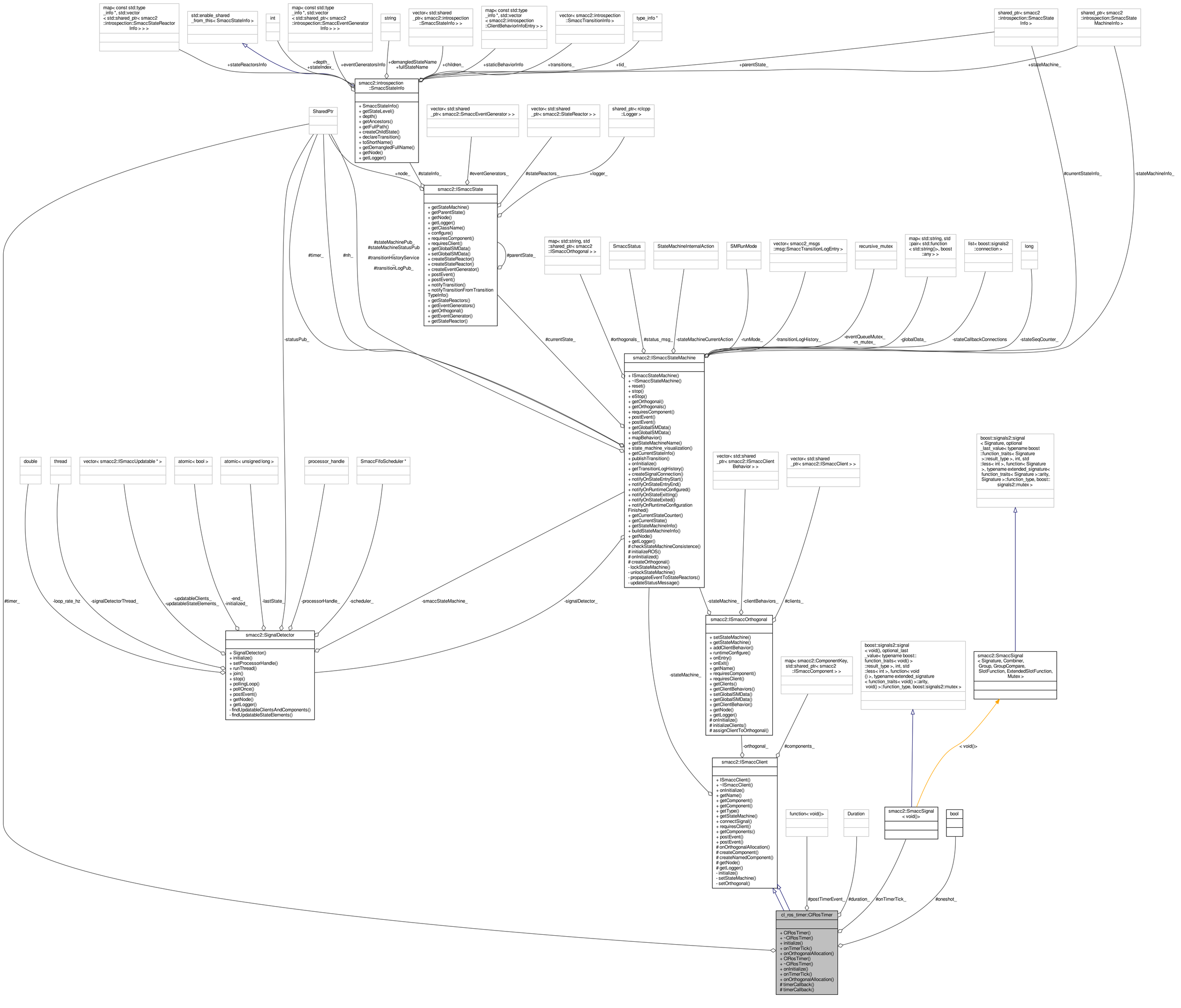
map< const std::type_info *, std::vector< std::shared_ptr< smacc2::introspection::SmaccStateReactorInfo > > >
std::enable_shared_from_this< SmaccStateInfo >
int
map< const std::type_info *, std::vector< std::shared_ptr< smacc2::introspection::SmaccEventGeneratorInfo > > >
string
vector< std::shared_ptr< smacc2::introspection::SmaccStateInfo > >
map< const std::type_info *, std::vector< smacc2::introspection::ClientBehaviorInfoEntry > >
vector< smacc2::introspection::SmaccTransitionInfo >
type_info *
shared_ptr< smacc2::introspection::SmaccStateInfo >
shared_ptr< smacc2::introspection::SmaccStateMachineInfo >
+stateReactorsInfo
+depth_
+stateIndex_
+eventGeneratorsInfo
+demangledStateName
+fullStateName
+children_
+staticBehaviorInfo
+transitions_
+tid_
+parentState_
+stateMachine_
smacc2::introspection::SmaccStateInfo
+ SmaccStateInfo()
+ getStateLevel()
+ depth()
+ getAncestors()
+ getFullPath()
+ createChildState()
+ declareTransition()
+ toShortName()
+ getDemangledFullName()
+ getNode()
+ getLogger()
SharedPtr
vector< std::shared_ptr< smacc2::SmaccEventGenerator > >
vector< std::shared_ptr< smacc2::StateReactor > >
shared_ptr< rclcpp::Logger >
+node_
#stateInfo_
#eventGenerators_
#stateReactors_
+logger_
#currentStateInfo_
-stateMachineInfo_
smacc2::ISmaccState
+ getStateMachine()
+ getParentState()
+ getNode()
+ getLogger()
+ getClassName()
+ configure()
+ requiresComponent()
+ requiresClient()
+ getGlobalSMData()
+ setGlobalSMData()
+ createStateReactor()
+ createStateReactor()
+ createEventGenerator()
+ postEvent()
+ postEvent()
+ notifyTransition()
+ notifyTransitionFromTransitionTypeInfo()
+ getStateReactors()
+ getEventGenerators()
+ getOrthogonal()
+ getEventGenerator()
+ getStateReactor()
#timer_
#nh_
#stateMachinePub_
#stateMachineStatusPub
#transitionHistoryService_
#transitionLogPub_
#parentState_
map< std::string, std::shared_ptr< smacc2::ISmaccOrthogonal > >
SmaccStatus
StateMachineInternalAction
SMRunMode
vector< smacc2_msgs::msg::SmaccTransitionLogEntry >
recursive_mutex
map< std::string, std::pair< std::function< std::string()>, boost::any > >
list< boost::signals2::connection >
long
-statusPub_
#currentState_
#orthogonals_
#status_msg_
-stateMachineCurrentAction
-runMode_
-transitionLogHistory_
-eventQueueMutex_
-m_mutex_
-globalData_
-stateCallbackConnections
-stateSeqCounter_
smacc2::ISmaccStateMachine
+ ISmaccStateMachine()
+ ~ISmaccStateMachine()
+ reset()
+ stop()
+ eStop()
+ getOrthogonal()
+ getOrthogonals()
+ requiresComponent()
+ postEvent()
+ postEvent()
+ getGlobalSMData()
+ setGlobalSMData()
+ mapBehavior()
+ getStateMachineName()
+ state_machine_visualization()
+ getCurrentStateInfo()
+ publishTransition()
+ onInitialize()
+ getTransitionLogHistory()
+ createSignalConnection()
+ notifyOnStateEntryStart()
+ notifyOnStateEntryEnd()
+ notifyOnRuntimeConfigured()
+ notifyOnStateExitting()
+ notifyOnStateExited()
+ notifyOnRuntimeConfigurationFinished()
+ getCurrentStateCounter()
+ getCurrentState()
+ getStateMachineInfo()
+ buildStateMachineInfo()
+ getNode()
+ getLogger()
# checkStateMachineConsistence()
# initializeROS()
# onInitialized()
# createOrthogonal()
- lockStateMachine()
- unlockStateMachine()
- propagateEventToStateReactors()
- updateStatusMessage()
double
thread
vector< smacc2::ISmaccUpdatable * >
atomic< bool >
atomic< unsigned long >
processor_handle
SmaccFifoScheduler *
vector< std::shared_ptr< smacc2::ISmaccClientBehavior > >
vector< std::shared_ptr< smacc2::ISmaccClient > >
boost::signals2::signal< Signature, optional_last_value< typename boost::function_traits< Signature >::result_type >, int, std::less< int >, function< Signature >, typename extended_signature< function_traits< Signature >::arity, Signature >::function_type, boost::signals2::mutex >
#timer_
-loop_rate_hz
-signalDetectorThread_
-updatableClients_
-updatableStateElements_
-end_
-initialized_
-lastState_
-processorHandle_
-scheduler_
-smaccStateMachine_
-signalDetector_
-stateMachine_
-clientBehaviors_
#clients_
smacc2::SignalDetector
+ SignalDetector()
+ initialize()
+ setProcessorHandle()
+ runThread()
+ join()
+ stop()
+ pollingLoop()
+ pollOnce()
+ postEvent()
+ getNode()
+ getLogger()
- findUpdatableClientsAndComponents()
- findUpdatableStateElements()
smacc2::ISmaccOrthogonal
+ setStateMachine()
+ getStateMachine()
+ addClientBehavior()
+ runtimeConfigure()
+ onEntry()
+ onExit()
+ getName()
+ requiresComponent()
+ requiresClient()
+ getClients()
+ getClientBehaviors()
+ setGlobalSMData()
+ getGlobalSMData()
+ getClientBehavior()
+ getNode()
+ getLogger()
# onInitialize()
# initializeClients()
# assignClientToOrthogonal()
map< smacc2::ComponentKey, std::shared_ptr< smacc2::ISmaccComponent > >
boost::signals2::signal< void(), optional_last_value< typename boost::function_traits< void() >::result_type >, int, std::less< int >, function< void () >, typename extended_signature< function_traits< void() >::arity, void() >::function_type, boost::signals2::mutex >
smacc2::SmaccSignal< Signature, Combiner, Group, GroupCompare, SlotFunction, ExtendedSlotFunction, Mutex >
-orthogonal_
#components_
< void()>
smacc2::ISmaccClient
+ ISmaccClient()
+ ~ISmaccClient()
+ onInitialize()
+ getName()
+ getComponent()
+ getComponent()
+ getType()
+ getStateMachine()
+ connectSignal()
+ requiresClient()
+ getComponents()
+ postEvent()
+ postEvent()
# onOrthogonalAllocation()
# createComponent()
# createNamedComponent()
# getNode()
# getLogger()
- initialize()
- setStateMachine()
- setOrthogonal()
function< void()>
Duration
smacc2::SmaccSignal< void()>
bool
#postTimerEvent_
#duration_
#onTimerTick_
#oneshot_
cl_ros_timer::ClRosTimer
+ ClRosTimer()
+ ~ClRosTimer()
+ initialize()
+ onTimerTick()
+ onOrthogonalAllocation()
+ ClRosTimer()
+ ~ClRosTimer()
+ onInitialize()
+ onTimerTick()
+ onOrthogonalAllocation()
# timerCallback()
# timerCallback()