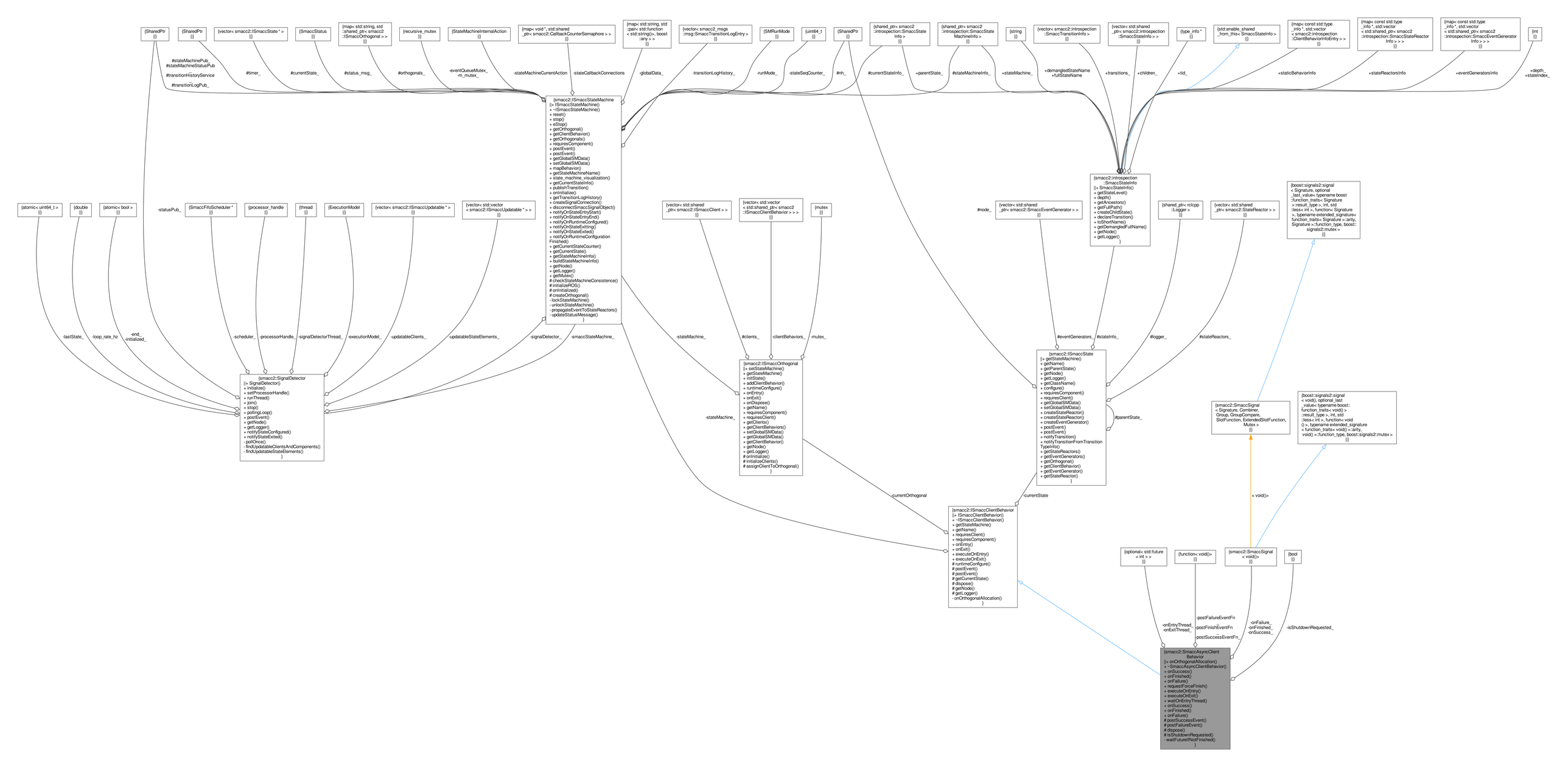
{SharedPtr ||}
#stateMachinePub_
#stateMachineStatusPub
#transitionHistoryService
#transitionLogPub_
{SharedPtr ||}
{vector< smacc2::ISmaccState * > ||}
{SmaccStatus ||}
{map< std::string, std ::shared_ptr< smacc2 ::ISmaccOrthogonal > > ||}
{recursive_mutex ||}
{StateMachineInternalAction ||}
{map< void *, std::shared _ptr< smacc2::CallbackCounterSemaphore > > ||}
{map< std::string, std ::pair< std::function < std::string()>, boost ::any > > ||}
{vector< smacc2_msgs ::msg::SmaccTransitionLogEntry > ||}
{SMRunMode ||}
{uint64_t ||}
{SharedPtr ||}
{shared_ptr< smacc2 ::introspection::SmaccState Info > ||}
{shared_ptr< smacc2 ::introspection::SmaccState MachineInfo > ||}
{string ||}
{vector< smacc2::introspection ::SmaccTransitionInfo > ||}
{vector< std::shared _ptr< smacc2::introspection ::SmaccStateInfo > > ||}
{type_info * ||}
{std::enable_shared _from_this< SmaccStateInfo > ||}
{map< const std::type _info *, std::vector < std::shared_ptr< smacc2 ::introspection::SmaccStateReactor Info > > > ||}
{map< const std::type _info *, std::vector < std::shared_ptr< smacc2 ::introspection::SmaccEventGenerator Info > > > ||}
{map< const std::type _info *, std::vector < std::shared_ptr< smacc2 ::introspection::SmaccEventGenerator Info > > > ||}
{int ||}
#timer_
#currentState_
#status_msg_
#orthogonals_
-eventQueueMutex_
-m_mutex_
-stateMachineCurrentAction
-stateCallbackConnections
-globalData_
-transitionLogHistory_
-runMode_
-stateSeqCounter_
#lh_
#currentStateInfo_
+parentState_
#stateMachineInfo_
+stateMachine_
+demangledStateName
+fullStateName
+transitions_
+children_
+tid_
+staticBehaviorInfo
+stateReactorsInfo
+eventGeneratorsInfo
+depth_
+stateIndex_
{smacc2::ISmaccStateMachine
||+ ISmaccStateMachine()
+ ~ISmaccStateMachine()
+ reset()
+ stop()
+ eStop()
+ getOrthogonal()
+ getClientBehavior()
+ getOrthogonals()
+ requiresComponent()
+ postEvent()
+ postEvent()
+ getGlobalSMData()
+ setGlobalSMData()
+ mapBehavior()
+ getStateMachineName()
+ state_machine_visualization()
+ getCurrentStateInfo()
+ publishTransition()
+ onInitialize()
+ getTransitionLogHistory()
+ createSignalConnection()
+ disconnectSmaccSignalObject()
+ notifyOnStateEntryStart()
+ notifyOnStateEntryEnd()
+ notifyOnRuntimeConfigured()
+ notifyOnStateExiting()
+ notifyOnStateExited()
+ notifyOnRuntimeConfiguration Finished()
+ getCurrentStateCounter()
+ getCurrentState()
+ getStateMachineInfo()
+ buildStateMachineInfo()
+ getNode()
+ getLogger()
+ getMutex()
# checkStateMachineConsistence()
# initializeROS()
# onInitialized()
# createOrthogonal()
- lockStateMachine()
- unlockStateMachine()
- propagateEventToStateReactors()
- updateStatusMessage()
}
-statusPub_
{SmaccFifoScheduler * ||}
{processor_handle ||}
{thread ||}
{ExecutionModel ||}
{vector< smacc2::ISmaccUpdatable * > ||}
{vector< std::vector < smacc2::ISmaccUpdatable * > > ||}
{atomic< uint64_t > ||}
{double ||}
{atomic< bool > ||}
-lastState_
-loop_rate_hz
-end_ -initialized_
-scheduler_
-processorHandle_
-signalDetectorThread_
-executionModel_
-updatableClients_
-updatableStateElements_
-signalDetector_
-smaccStateMachine_
{smacc2::SignalDetector
||+ SignalDetector()
+ initialize()
+ setProcessorHandle()
+ runThread()
+ join()
+ stop()
+ pollingLoop()
+ postEvent()
+ getNode()
+ getLogger()
+ notifyStateConfigured()
+ notifyStateExited()
- pollOnce()
- findUpdatableClientsAndComponents()
- findUpdatableStateElements()
}
{vector< std::shared _ptr< smacc2::ISmaccClient > > ||}
{vector< std::vector < std::shared_ptr< smacc2 ::ISmaccClientBehavior > > > ||}
{mutex ||}
-stateMachine_
#clients_
-clientBehaviors_
-mutex_
{smacc2::ISmaccOrthogonal
||+ setStateMachine()
+ getStateMachine()
+ initState()
+ addClientBehavior()
+ runtimeConfigure()
+ onEntry()
+ onExit()
+ onDispose()
+ getName()
+ requiresComponent()
+ requiresClient()
+ getClients()
+ getClientBehaviors()
+ setGlobalSMData()
+ getGlobalSMData()
+ getClientBehavior()
+ getNode()
+ getLogger()
# onInitialize()
# initializeClients()
# assignClientToOrthogonal()
}
-stateMachine_
#node_
{vector< std::shared _ptr< smacc2::SmaccEventGenerator > > ||}
{smacc2::introspection ::SmaccStateInfo
||+ SmaccStateInfo()
+ getStateLevel()
+ depth()
+ getAncestors()
+ getFullPath()
+ createChildState()
+ declareTransition()
+ toShortName()
+ getDemangledFullName()
+ getNode()
+ getLogger()
}
{shared_ptr< rclcpp ::Logger > ||}
{vector< std::shared _ptr< smacc2::SmaccReactor > > ||}
{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 >
||}
#eventGenerators_
#stateInfo_
#logger_
#stateReactors_
{smacc2::ISmaccState
||+ getStateMachine()
+ getName()
+ getParentState()
+ getNode()
+ getLogger()
+ getClassName()
+ configure()
+ requiresComponent()
+ requiresClient()
+ getGlobalSMData()
+ setGlobalSMData()
+ createStateReactor()
+ createStateReactor()
+ createEventGenerator()
+ postEvent()
+ postEvent()
+ notifyTransition()
+ notifyTransitionFromTransition TypeInfo()
+ getStateReactors()
+ getEventGenerators()
+ getOrthogonal()
+ getClientBehavior()
+ getEventGenerator()
+ getStateReactor()
}
#parentState_
-currentOrthogonal
-currentState
{smacc2::ISmaccClientBehavior
||+ ISmaccClientBehavior()
+ ~ISmaccClientBehavior()
+ getStateMachine()
+ getName()
+ requiresClient()
+ requiresComponent()
+ onEntry()
+ onExit()
+ executeOnEntry()
+ executeOnExit()
# runtimeConfigure()
# postEvent()
# postEvent()
# getCurrentState()
# dispose()
# getNode()
# getLogger()
- onOrthogonalAllocation()
}
{smacc2::SmaccSignal
< Signature, Combiner,
Group, GroupCompare,
SlotFunction, ExtendedSlotFunction,
Mutex >
||}
{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 >
||}
< void()>
{optional< std::future
< int > >
||}
{function< void()>
||}
{smacc2::SmaccSignal
< void()>
||}
{bool
||}
-onEntryThread_
-onExitThread_
-postFailureEventFn
-postFinishEventFn
-postSuccessEventFn_
-onFailure_
-onFinished_
-onSuccess_
-isShutdownRequested_
{smacc2::SmaccAsyncClient
Behavior
||+ onOrthogonalAllocation()
+ ~SmaccAsyncClientBehavior()
+ onSuccess()
+ onFinished()
+ onFailure()
+ requestForceFinish()
+ executeOnEntry()
+ executeOnExit()
+ waitOnEntryThread()
+ onSuccess()
+ onFinished()
+ onFailure()
# postSuccessEvent()
# postFailureEvent()
# dispose()
# isShutdownRequested()
- waitFutureIfNotFinished()
}