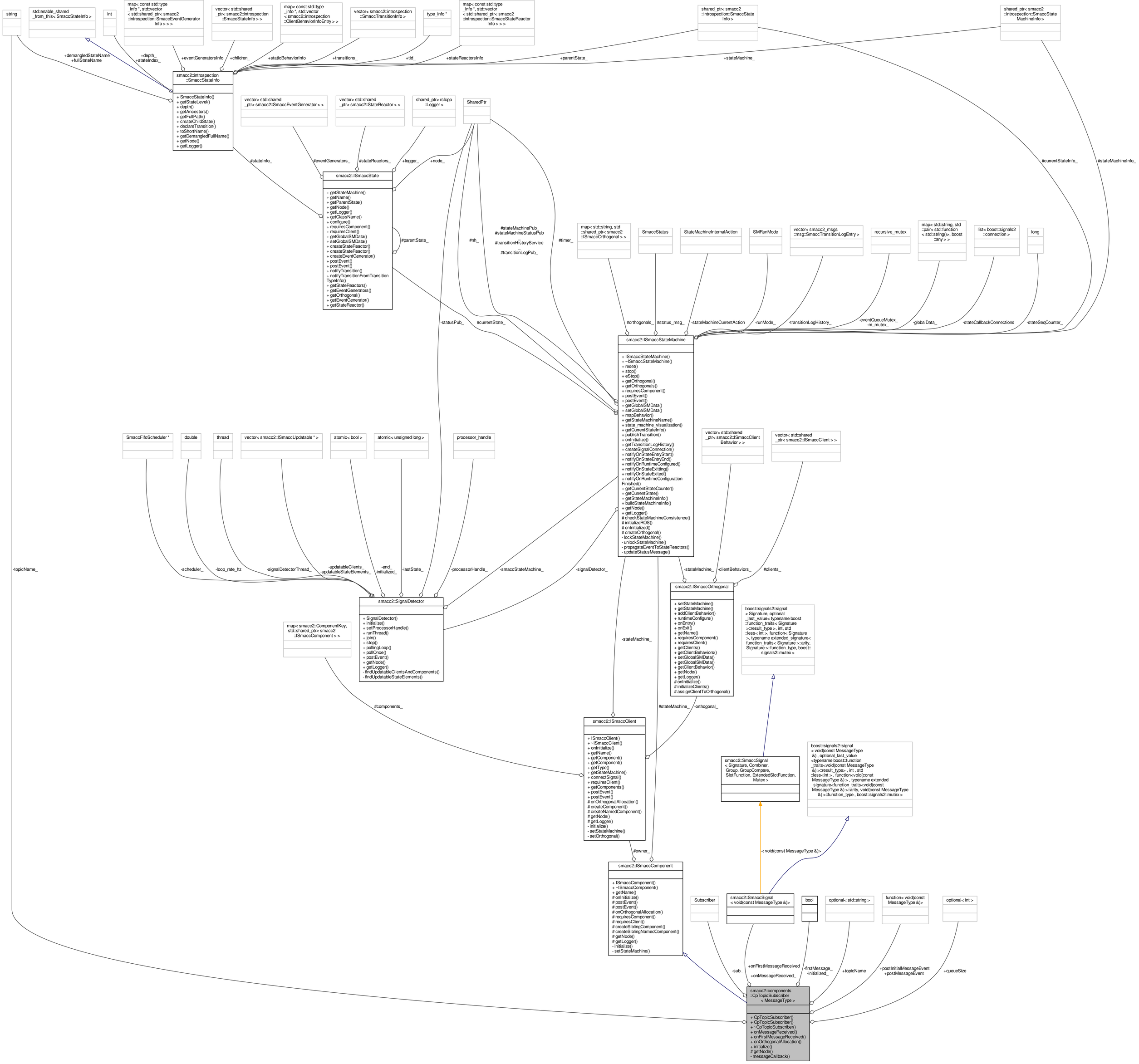
string
std::enable_shared
_from_this< SmaccStateInfo >
int
map< const std::type
_info *, std::vector
< std::shared_ptr< smacc2
::introspection::SmaccEventGenerator
Info > > >
vector< std::shared
_ptr< smacc2::introspection
::SmaccStateInfo > >
map< const std::type
_info *, std::vector
< smacc2::introspection
::ClientBehaviorInfoEntry > >
vector< smacc2::introspection
::SmaccTransitionInfo >
type_info *
map< const std::type
_info *, std::vector
< std::shared_ptr< smacc2
::introspection::SmaccStateReactor
Info > > >
shared_ptr< smacc2
::introspection::SmaccState
Info >
shared_ptr< smacc2
::introspection::SmaccState
MachineInfo >
+demangledStateName
+fullStateName
+depth_
+stateIndex_
+eventGeneratorsInfo
+children_
+staticBehaviorInfo
+transitions_
+tid_
+stateReactorsInfo
+parentState_
+stateMachine_
smacc2::introspection
::SmaccStateInfo
+ SmaccStateInfo()
+ getStateLevel()
+ depth()
+ getAncestors()
+ getFullPath()
+ createChildState()
+ declareTransition()
+ toShortName()
+ getDemangledFullName()
+ getNode()
+ getLogger()
vector< std::shared
_ptr< smacc2::SmaccEventGenerator > >
vector< std::shared
_ptr< smacc2::StateReactor > >
shared_ptr< rclcpp
::Logger >
SharedPtr
#stateInfo_
#eventGenerators_
#stateReactors_
+logger_
+node_
#currentStateInfo_
#stateMachineInfo_
smacc2::ISmaccState
+ getStateMachine()
+ getName()
+ getParentState()
+ getNode()
+ getLogger()
+ getClassName()
+ configure()
+ requiresComponent()
+ requiresClient()
+ getGlobalSMData()
+ setGlobalSMData()
+ createStateReactor()
+ createStateReactor()
+ createEventGenerator()
+ postEvent()
+ postEvent()
+ notifyTransition()
+ notifyTransitionFromTransition
TypeInfo()
+ getStateReactors()
+ getEventGenerators()
+ getOrthogonal()
+ getEventGenerator()
+ getStateReactor()
#parentState_
#nh_
#stateMachinePub_
#stateMachineStatusPub
#transitionHistoryService
#transitionLogPub_
#timer_
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()
+ notifyOnRuntimeConfiguration
Finished()
+ getCurrentStateCounter()
+ getCurrentState()
+ getStateMachineInfo()
+ buildStateMachineInfo()
+ getNode()
+ getLogger()
# checkStateMachineConsistence()
# initializeROS()
# onInitialized()
# createOrthogonal()
- lockStateMachine()
- unlockStateMachine()
- propagateEventToStateReactors()
- updateStatusMessage()
SmaccFifoScheduler *
double
thread
vector< smacc2::ISmaccUpdatable * >
atomic< bool >
atomic< unsigned long >
processor_handle
vector< std::shared
_ptr< smacc2::ISmaccClient
Behavior > >
vector< std::shared
_ptr< smacc2::ISmaccClient > >
-topicName_
-scheduler_
-loop_rate_hz
-signalDetectorThread_
-updatableClients_
-updatableStateElements_
-end_
-initialized_
-lastState_
-processorHandle_
-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()
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 >
map< smacc2::ComponentKey,
std::shared_ptr< smacc2
::ISmaccComponent > >
-stateMachine_
#components_
#stateMachine_
-orthogonal_
smacc2::ISmaccClient
+ ISmaccClient()
+ ~ISmaccClient()
+ onInitialize()
+ getName()
+ getComponent()
+ getComponent()
+ getType()
+ getStateMachine()
+ connectSignal()
+ requiresClient()
+ getComponents()
+ postEvent()
+ postEvent()
# onOrthogonalAllocation()
# createComponent()
# createNamedComponent()
# getNode()
# getLogger()
- initialize()
- setStateMachine()
- setOrthogonal()
smacc2::SmaccSignal
< Signature, Combiner,
Group, GroupCompare,
SlotFunction, ExtendedSlotFunction,
Mutex >
boost::signals2::signal
< void(const MessageType
&) , optional_last_value
<typename boost::function
_traits<void(const MessageType
&) >::result_type> , int , std
::less<int > , function<void(const
MessageType &) > , typename extended
_signature<function_traits<void(const
MessageType &) >::arity, void(const MessageType
&) >::function_type , boost::signals2::mutex >
#owner_
< void(const MessageType &)>
smacc2::ISmaccComponent
+ ISmaccComponent()
+ ~ISmaccComponent()
+ getName()
# onInitialize()
# postEvent()
# postEvent()
# onOrthogonalAllocation()
# requiresComponent()
# requiresClient()
# createSiblingComponent()
# createSiblingNamedComponent()
# getNode()
# getLogger()
- initialize()
- setStateMachine()
Subscriber
smacc2::SmaccSignal
< void(const MessageType &)>
bool
optional< std::string >
function< void(const
MessageType &)>
optional< int >
-sub_
+onFirstMessageReceived
+onMessageReceived_
-firstMessage_
-initialized_
+topicName
+postInitialMessageEvent
+postMessageEvent
+queueSize
smacc2::components
::CpTopicSubscriber
< MessageType >
+ CpTopicSubscriber()
+ CpTopicSubscriber()
+ ~CpTopicSubscriber()
+ onMessageReceived()
+ onFirstMessageReceived()
+ onOrthogonalAllocation()
+ initialize()
# getNode()
- messageCallback()