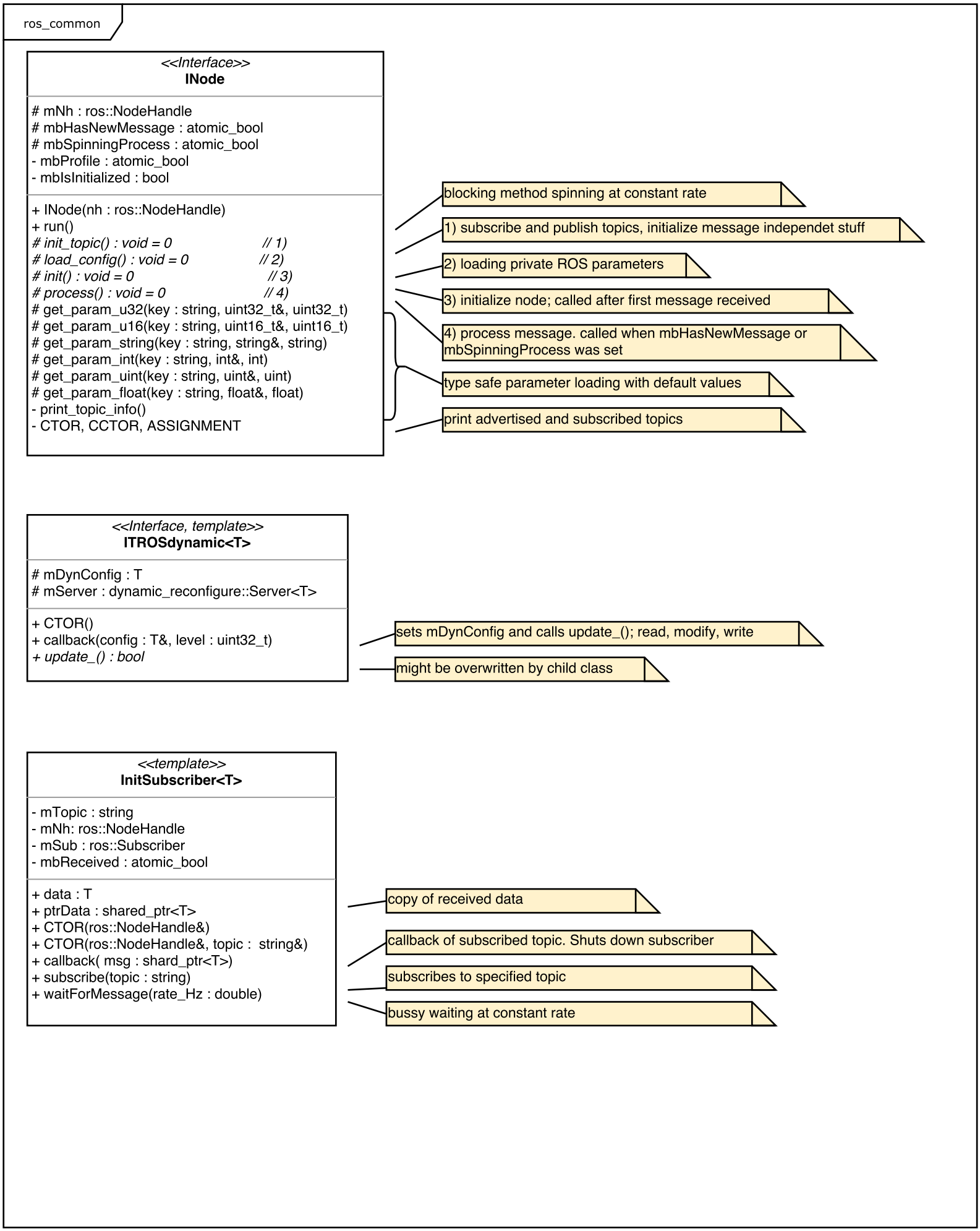
ros_common
<<Interface>>
INode
mNh : ros::NodeHandle
mbHasNewMessage : atomic_bool
mbSpinningProcess : atomic_bool
- mbProfile : atomic_bool
- mbIsInitialized : bool
+ INode(nh : ros::NodeHandle)
+ run()
# init_topic() : void = 0 // 1)
# load_config() : void = 0 // 2)
# init() : void = 0 // 3)
# process() : void = 0 // 4)
# get_param_u32(key : string, uint32_t&, uint32_t)
# get_param_u16(key : string, uint16_t&, uint16_t)
# get_param_string(key : string, string&, string)
# get_param_int(key : string, int&, int)
# get_param_uint(key : string, uint&, uint)
# get_param_float(key : string, float&, float)
- print_topic_info()
- CTOR, CCTOR, ASSIGNMENT
blocking method spinning at constant rate
1) subscribe and publish topics, initialize message independet stuff
2) loading private ROS parameters
3) initialize node; called after first message received
4) process message. called when mbHasNewMessage or mbSpinningProcess was set
type safe parameter loading with default values
print advertised and subscribed topics
<<Interface, template>>
ITROSdynamic<T>
mDynConfig : T
mServer : dynamic_reconfigure::Server<T>
+ CTOR()
+ callback(config : T&, level : uint32_t)
+ update_() : bool
sets mDynConfig and calls update_(); read, modify, write
might be overwritten by child class
<<template>>
InitSubscriber<T>
- mTopic : string
- mNh: ros::NodeHandle
- mSub : ros::Subscriber
- mbReceived : atomic_bool
+ data : T
+ ptrData : shared_ptr<T>
+ CTOR(ros::NodeHandle&)
+ CTOR(ros::NodeHandle&, topic : string&)
+ callback(msg : shard_ptr<T>)
+ subscribe(topic : string)
+ waitForMessage(rate_Hz : double)
copy of received data
callback of subscribed topic. Shuts down subscriber
subscribes to specified topic
bussy waiting at constant rate