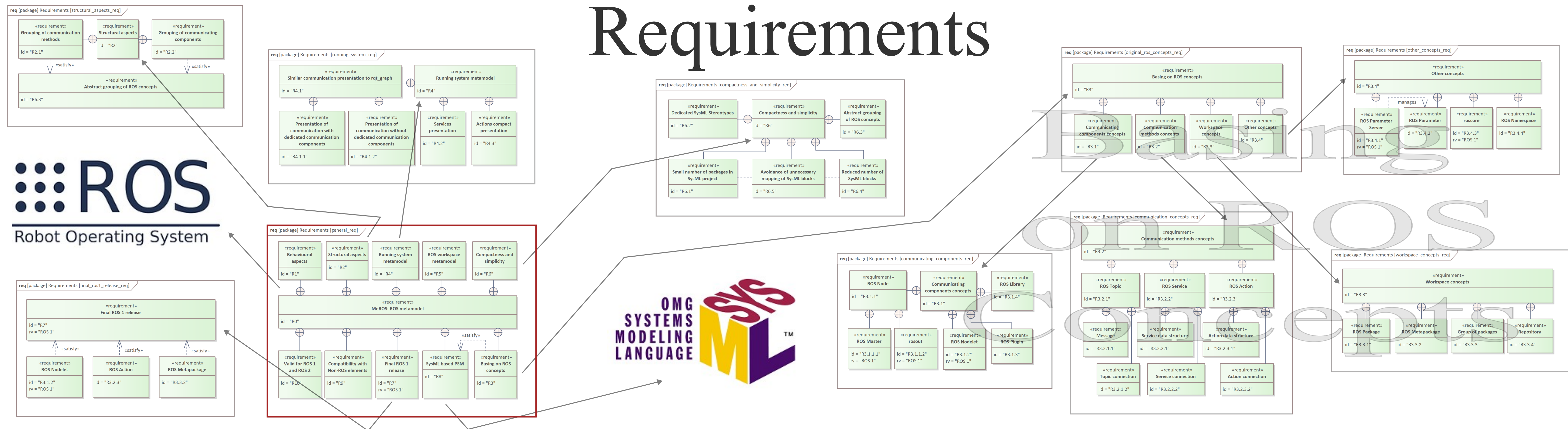
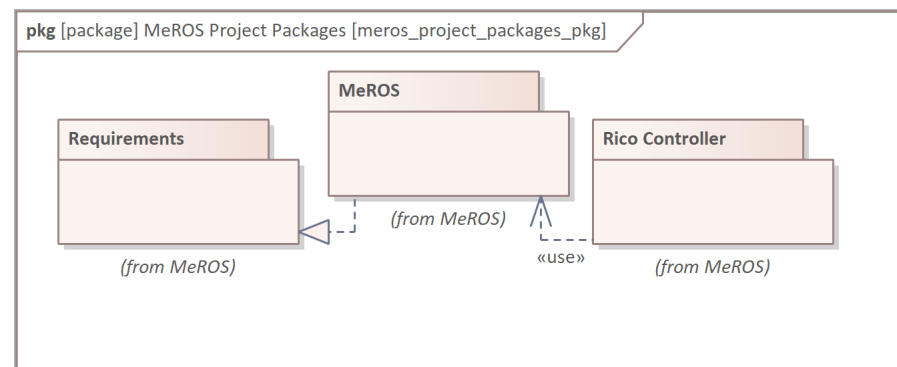


version 1.1.1

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The diagram is a collection of UML models for ROS2, organized into several sections:

- Component Diagrams (Top):** These diagrams show the relationships between different ROS2 components.
 - bdd(package) MetROS [namespace_bdd]:** Shows the relationship between `<Namespace> Namespace`, `<Parameter> Parameter`, `<Node> Node`, `<Communication Channel> Communication Channel`, `<ActionConn> Action Connection`, `<TopicConn> Topic Connection`, and `<ServiceConn> Service Connection`.
 - bdd(package) MetROS [ros_system_bdd]:** Shows the relationship between `<Package> Group of Package`, `<System> ROS System`, and `<System> Interrupt`.
 - bdd(package) MetROS [intra_system_bdd]:** Shows the relationship between `<Namespace> Namespace`, `<NonROSComponent> Non-ROS Communicating Component`, `<Node> Node`, `<NonROSConn> Non-ROS Connection`, `<ComponentContainer> Component Container`, `<IntraSystem> IntraSystem`, `<ActionConn> Action Connection`, `<TopicConn> Topic Connection`, `<CommChannel> Communication Channel`, `<ServiceConn> Service Connection`, and `<Parameter> Parameter`.
 - bdd(package) MetROS [communication_channel_bdd]:** Shows the relationship between `<CommChannel> Communication Channel`, `<ActionConn> Action Connection`, `<TopicConn> Topic Connection`, `<ServiceConn> Service Connection`, and `<NonROSConn> Non-ROS Connection`.
 - bdd(package) MetROS [communication_component_bdd]:** Shows the relationship between `<CommComponent> ROS Communicating Component`, `<Publisher> Publisher`, `<Subscriber> Subscriber`, `<TopicConn> Topic Connection`, `<MsgDataStructure> Msg Data Structure`, and `<Requirements> Communication methods concepts`.
 - bdd(package) MetROS [communication_component_service_bdd]:** Shows the relationship between `<CommComponent> ROS Communicating Component`, `<Server> Server`, `<Client> Client`, `<ServiceConn> Service Connection`, and `<Requirements> Communication methods concepts`.
 - bdd(package) MetROS [communication_component_actions_bdd]:** Shows the relationship between `<CommComponent> ROS Communicating Component`, `<ActionConn> Action Connection`, `<ActionDataStructure> Action Data Structure`, and `<Requirements> Communication methods concepts`.
 - bdd(package) MetROS [running_system_bdd]:** Shows the relationship between `<RunningSystem> Running System`, `<Node> Node`, `<ROS Master> ROS Master`, `<IntraSystem> IntraSystem`, and `<Requirements> Communication methods concepts`.
 - bdd(package) MetROS [communication_component_inherit_bdd]:** Shows the relationship between `<CommComponent> ROS Communicating Component`, `<IntraSystem> IntraSystem`, `<Node> Node`, `<Nodelet> Nodelet`, `<Plugin> Plugin`, `<Library> Library`, and `<Requirements> Communication methods concepts`.
 - bdd(package) MetROS [communication_component_other_bdd]:** Shows the relationship between `<CommComponent> ROS Communicating Component`, `<NonROSConn> Non-ROS Connection`, `<NonROSComponent> Non-ROS Communicating Component`, `<CommChannel> Communication Channel`, and `<Requirements> Communication methods concepts`.
 - bdd(package) MetROS [ros_package_bdd]:** Shows the relationship between `<MsgDataStructure> Msg Data Structure`, `<ActionDataStructure> Action Data Structure`, `<Library> Library`, `<Plugin> Plugin`, `<Nodelet> Nodelet`, `<Package> Package`, `<Block> Block`, `<Node> Node`, and `<MsgDataStructure> Msg Data Structure`.
- Sequence Diagrams (Middle):** These diagrams show the sequence of messages between components.
 - bdd(package) MetROS [topic_communication_with_dedicated_component_bdd]:** Shows the sequence of messages between `<CommComponent> Publisher` and `<CommComponent> Subscriber`.
 - bdd(package) MetROS [topic_communication_without_dedicated_component_bdd]:** Shows the sequence of messages between `<CommComponent> Publisher` and `<CommComponent> Subscriber`.
 - bdd(package) MetROS [service_communication_bdd]:** Shows the sequence of messages between `<CommComponent> Service Client` and `<CommComponent> Service Server`.
 - bdd(package) MetROS [action_communication_compact_bdd]:** Shows the sequence of messages between `<CommComponent> Action Client` and `<CommComponent> Action Server`.
 - bdd(package) MetROS [action_communication_detailed_bdd]:** Shows the sequence of messages between `<CommComponent> Action Client` and `<CommComponent> Action Server`.
 - bdd(package) MetROS [action_server_status_bdd]:** Shows the sequence of messages between `<CommComponent> Action Client` and `<CommComponent> Action Server`.
- State Machine Diagrams (Bottom):** These diagrams show the states and transitions of components.
 - bdd(package) MetROS [ros1_action_client_status]:** Shows the states and transitions of a ROS1 action client.
 - bdd(package) MetROS [ros1_action_server_status]:** Shows the states and transitions of a ROS1 action server.