6.4.1

Developing new FlexBE States

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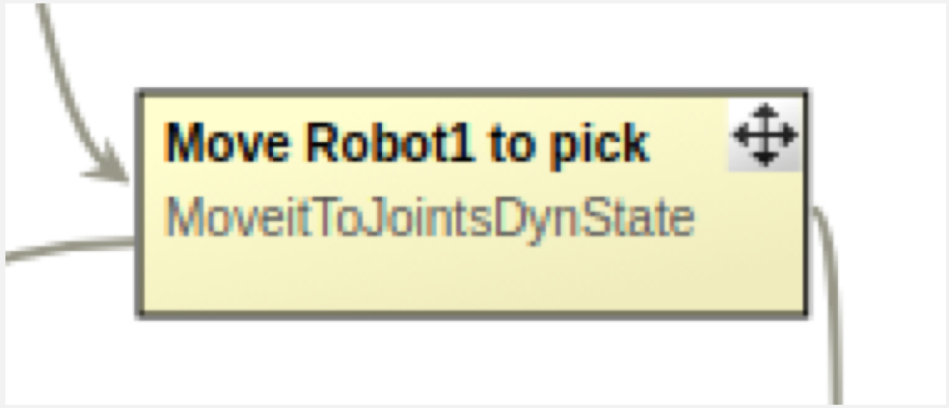
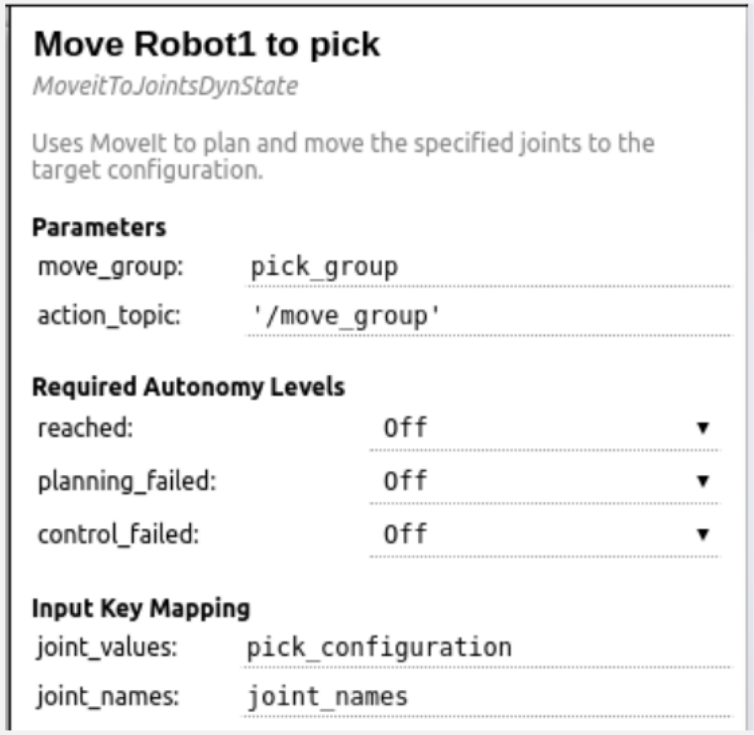
Remember

FlexBE State:

- concrete use of one of the capabilities by the ROS nodes in the system to perform a concrete action.

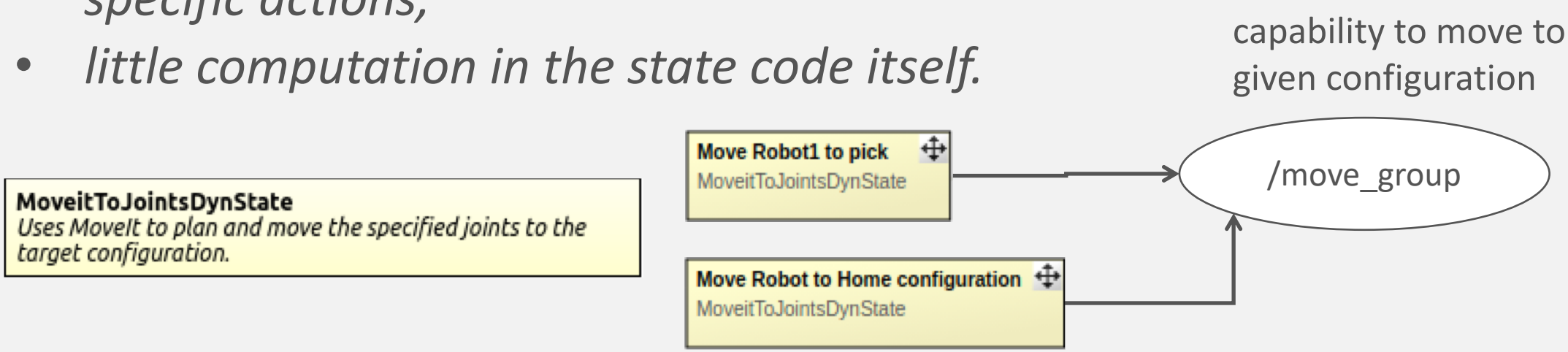




FlexBE State implementations design

Separate application-specific behavior (FlexBE SM) from capabilities (ROS nodes):

- A state implementation should be an interface to a node that implements the capability
  - *FlexBE State are **internally** implemented **clients** that request specific actions,*
  - *little computation in the state code itself.*

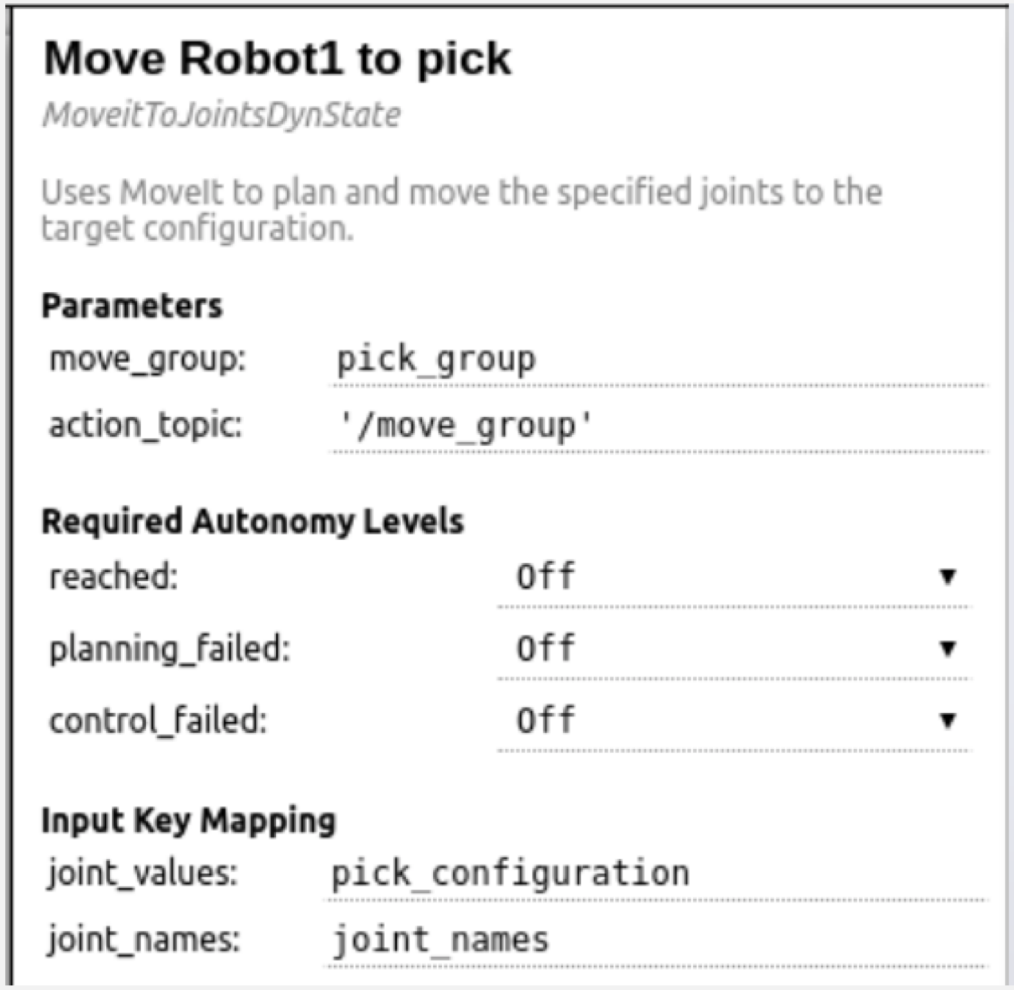


Also

State properties:

- Parameters
- Input & Output keys
- Outcomes

External interface of a state implementation to configure it for a concrete application.



FlexBE State implementation

What?

- Internally: robot operation by using a client.
- External Interface to configure it for a concrete application:
  - Parameters
  - Input & Output keys
  - Outcomes

How?

- The FlexBE State Lifecycle