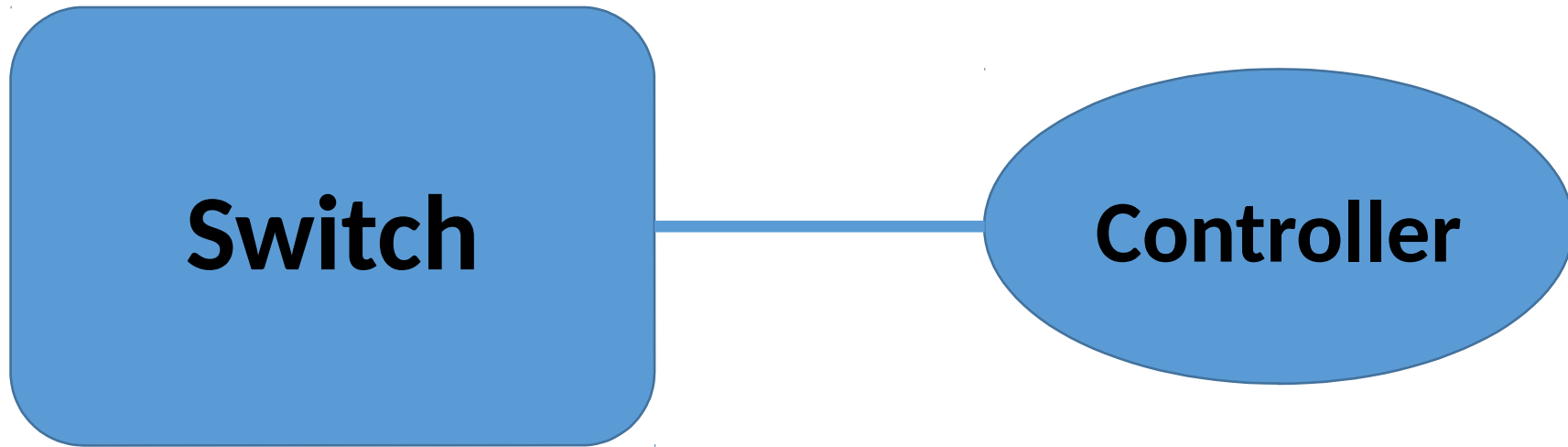


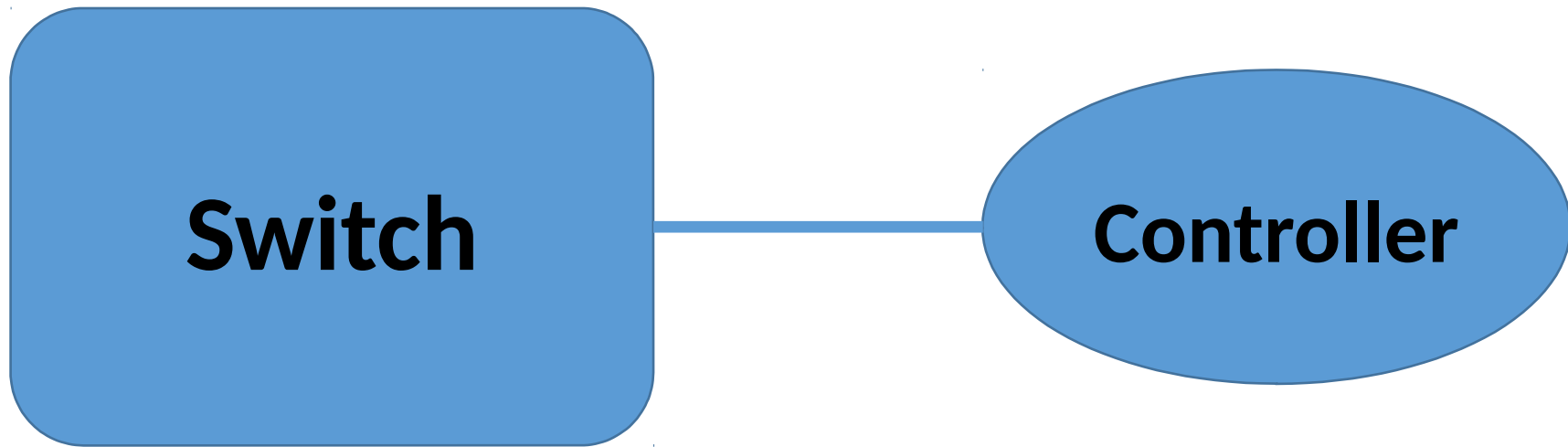
Once a switch connects with a controller



The controller will add the below rule into the switch(in most cases) :

Match: xxxx (everything) Action: output CONTROLLER, Priority: lowest

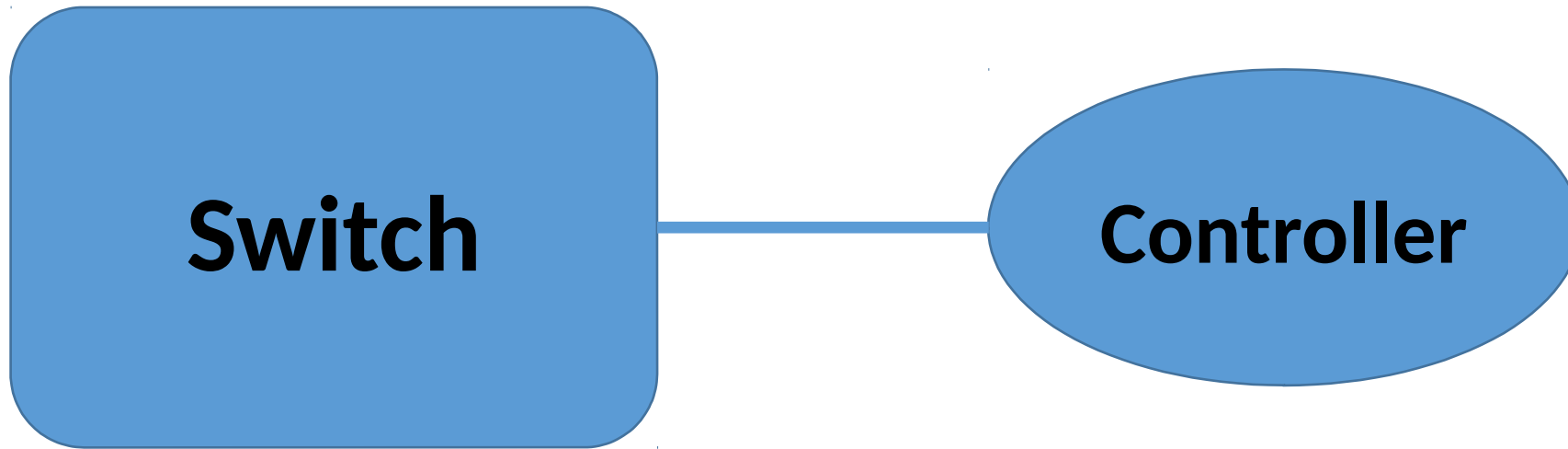
All unknown packets will be sent to controller



All unknown packets will match the below default rule (if have) and be sent to the controller via PACKET-IN message :

Match: xxxx (everything) Action: output CONTROLLER, Priority: lowest

Controller will find routes for unknown packets



Once a new flow entry is installed for the unknown packets, the original unknown packets become known and will NOT be sent to the controller anymore:

Match: DIP/DMAC...

Action: output port xx

Priority: > lowest

Summary

- Always check the flow tables in switch to determine a packet's forwarding path.
- Only unknown packets will be sent to controller if there is a default entry requests the switch to do this.
- Once the controller finds a route and installs the rule for an unknown flow, the flow will NOT be sent to the controller.