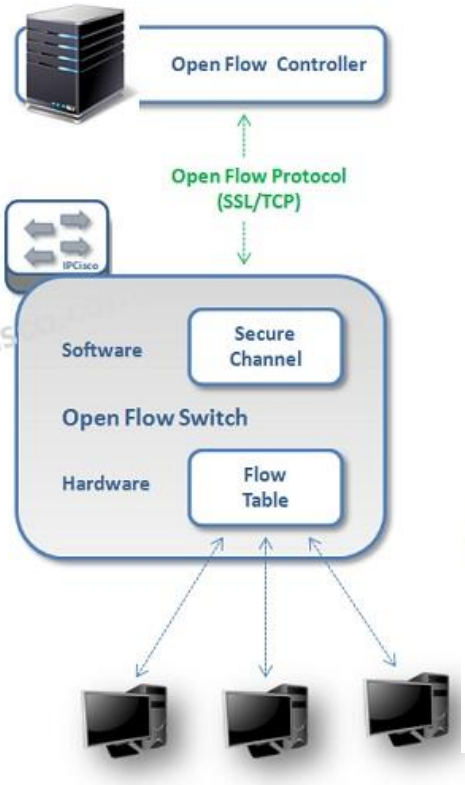
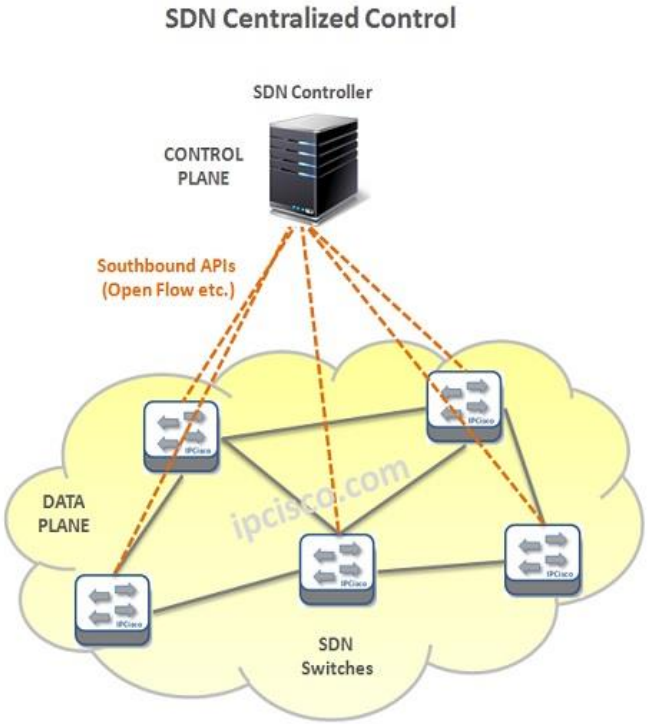
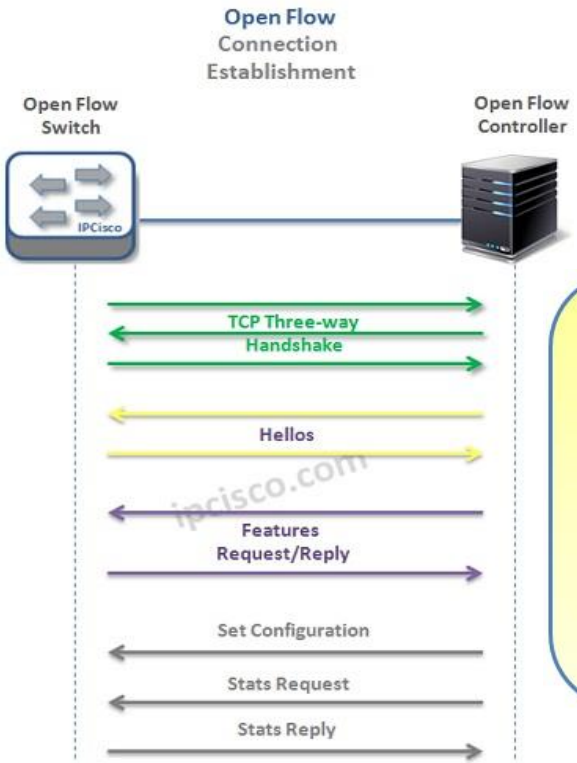
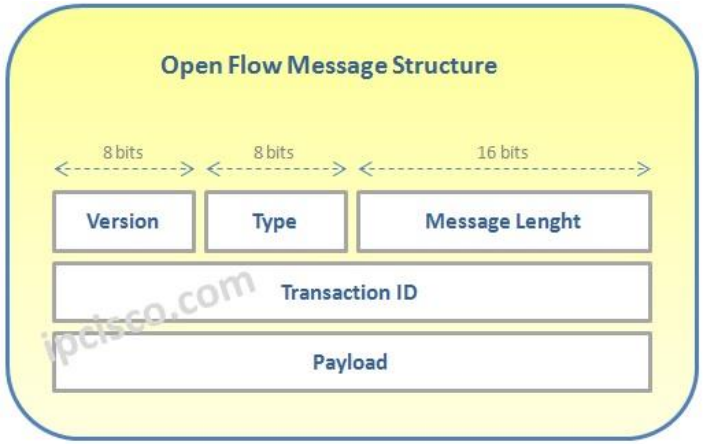
OPEN FLOW Cheat Sheet

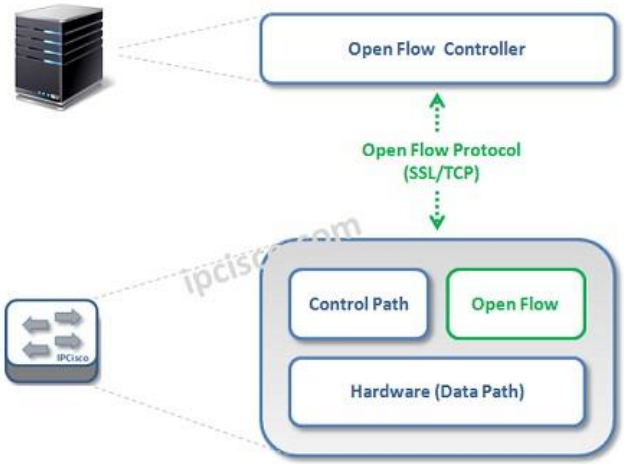
Standard based Layer 2 Protocol
Used on Southbound Interface
Manuplates Forwarding Plane devices
Open Flow Common Roles: • Seperation of Control and Data planes. • Provide centralization of the control. • Provide Flow based control mechanism
Open Flow supports three message types : • Controller to Switch • Asyncronous











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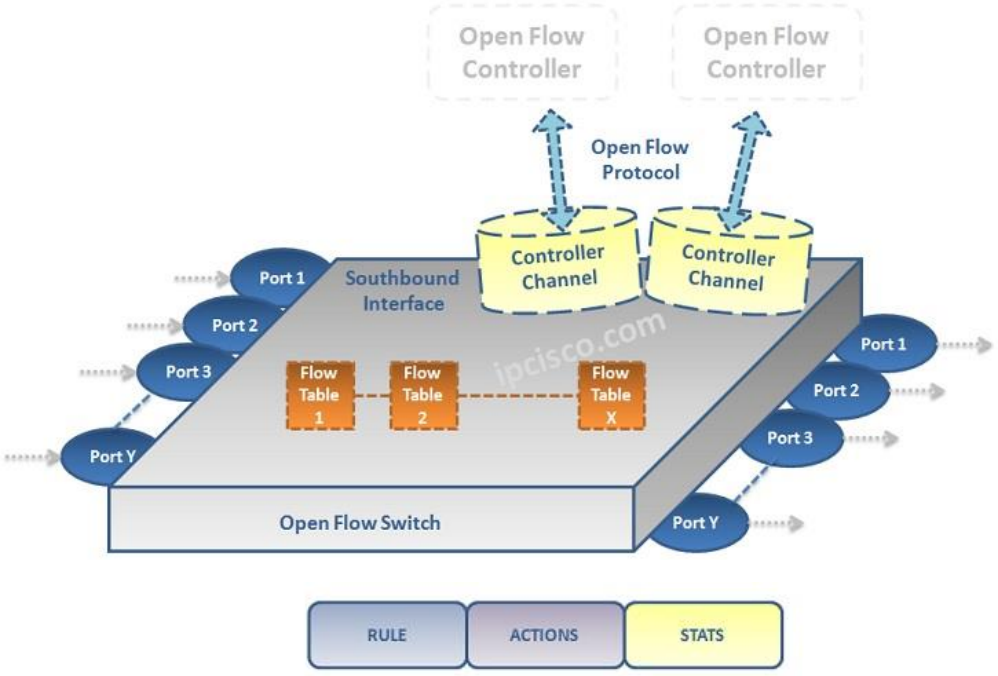

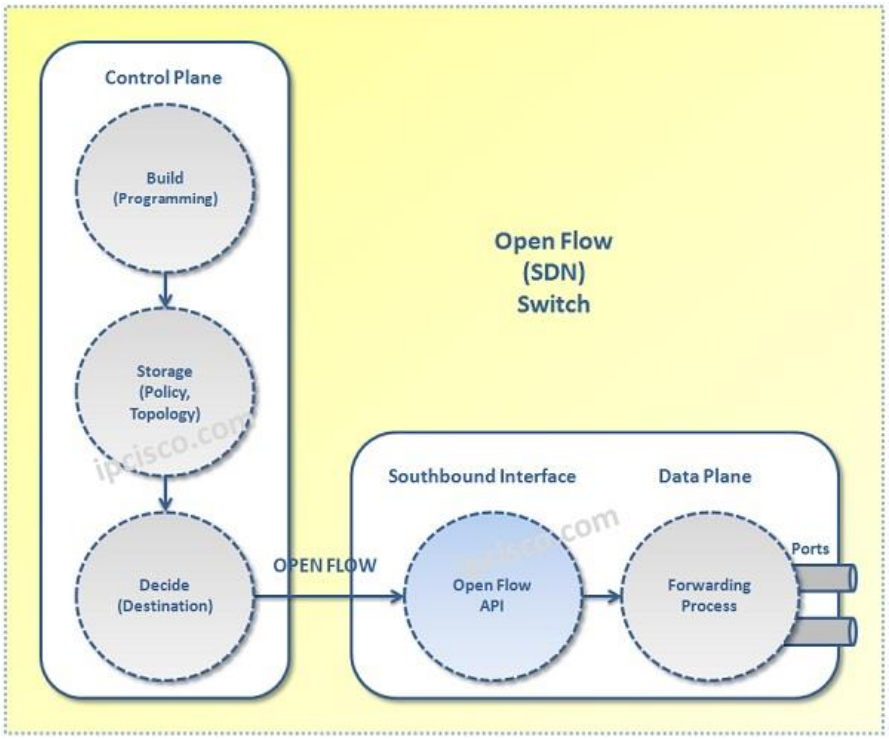

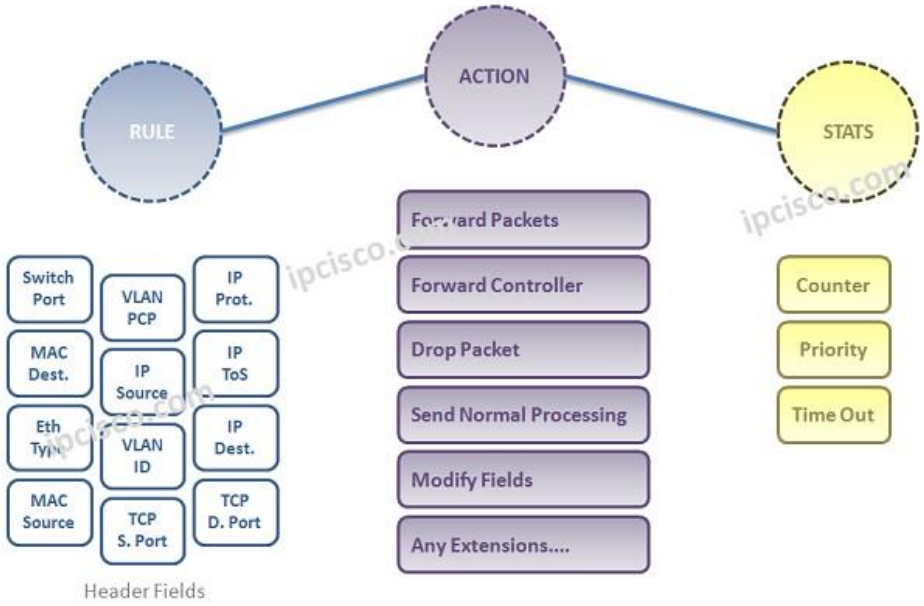

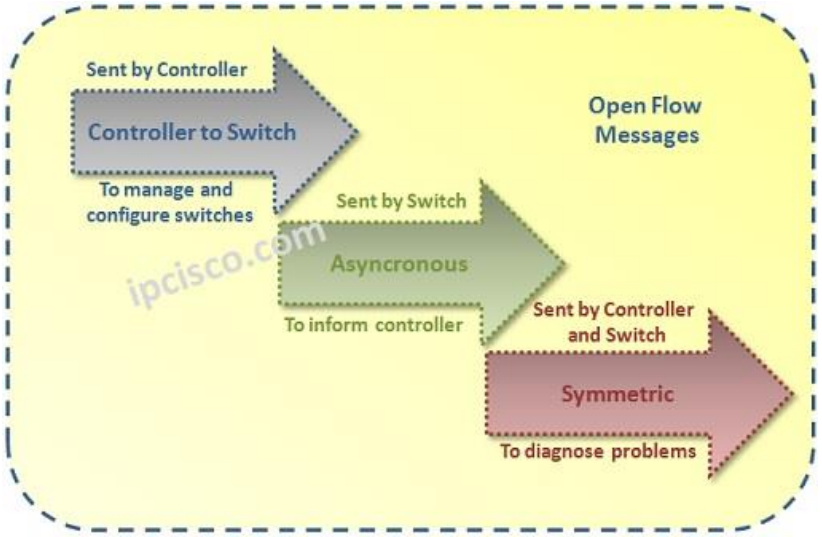

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Message Category	Message	Message Type	Direction	Process
Conf.	Hello	Symmetric	Controller->Switch	“Here is my Version Number!”
	Hello	Symmetric	Switch->Controller	“Here is Verision Number, that I support!”
	Features Request	Control/Switch	Controller->Switch	“Which ports are available?”
	Set Config	Control/Switch	Controller->Switch	“Could you send Flow Expirations?”
	Features Reply	Control/Switch	Switch->Controller	“Here are the available ports / supported actions!”
	Port Status	Asynchronous	Switch->Controller	Informing Controller about some features.
Flow	Packet-In	Asynchronous	Switch->Controller	“There is no match in Flow Table for this Flow!”
	Packet-Out	Control/Switch	Controller->Switch	“Send packet out to these ports!”
	Flow-Mod	Control/Switch	Controller->Switch	“Add this Flow to the Flow Table!”
	Flow-Expired	Control/Switch	Switch->Controller	Flow timed out after being inactive for a period.