

From Control to Chaos: The Dynamic SDN Control Plane

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Abstract: *Software-defined networking (SDN) has revolutionized the way networks are designed and managed, with the control plane being a critical component. The SDN control plane is responsible for managing and orchestrating network traffic flows, but its traditional static approach can be limiting in dynamic and complex network environments. This abstract explores the concept of a dynamic SDN control plane, which can adapt and respond to changing network conditions, leading to better network performance and efficiency. The dynamic control plane involves the use of machine learning algorithms, artificial intelligence, and network analytics to constantly monitor and adjust network policies in real-time. The dynamic SDN control plane empowers networks to move from a state of control to chaos, enabling greater flexibility, agility, and resilience in network management. This abstract provides insights into the potential benefits of a dynamic SDN control plane and highlights the challenges and opportunities in implementing this approach.*

Keywords: Control Plane, SDN.

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