The traditional three-tier network architecture is rapidly becoming obsolete. It is too rigid to meet the needs of the modern campus. More flexible and dynamic network architectures are required to replace it.

Ruckus campus fabric is a dynamic and flexible network architecture that collapses multiple network layers into a single logical device, combining the power of a “distributed chassis” design with the flexibility and cost-effectiveness of fixed form factor switch building blocks.

**Fabric Controller:** At the core of the fabric, the Control Bridge (CB) devices deliver a unified network control plane that acts as the central management and traffic forwarding authority for the entire fabric. For full redundancy and load balancing, up to four devices can be stacked together as a control bridge.

**Fabric Port Extenders:** At the edge the Port Extender (PE) devices acts as “virtual line cards.” They are managed and controlled by the CB, eliminating the need to manually provision and configure individual edge switches.

From the outset, the whole Campus Fabric appears as a single logical switch with a single point of management dramatically simplifying the management and administration and provisioning of the network. It also enables multi-pathing across the fabric and full link redundancy between the port extenders and the control bridge.