INTRODUCTION

Edgecore Networks SD-WAN solution is to address those network issues and able to provide robust, secure, adaptive network services on demand. By enhancing or substituting the traditional branch networking devices with virtualization appliances that can be programmed to understand the nature of traffic it is handling and dynamically adjust accordingly, latency-sensitive traffic for applications such as video and voice, need to be continuously monitored and prioritized, which requires such things as application recognition, traffic re-routing, load-balancing, bandwidth-control, automation fail-over, that MPLS connections simply cannot provide.

Edgecore Barrista is a VM base SD-WAN Orchestrator, you can setup in x86 system or cloud platform, it provides central management, zero touch deployment for Edgecore SDW products.

HIGHLIGHTS

- **Central Management**
  Provide unified web GUI that System Administrator can monitor and auto-adjust all remote (branch) networks with real-time feedback from premises and deploy the pre-configured network path to remote sites.

- **Zero Touch Deployment**
  Fully automated provisioning from Central Management with pre-configured network setup to the edge devices at remote sites without user intervention can improve reliability, minimize bring-up costs while maintaining efficiency and flexibility on deployment.

- **Multi-Tenant**
  With adoption of our management system, you—as a System Administrator—have the option to sublet the services to other partners/tenants, as a source of revenue, while assuring each tenant’s data is isolated and remains invisible to other tenants. In addition, cost of the deployment can be greatly reduced through economies of scale, with minimum effort on administration workload such as account assignment and database maintenance.

- **OTA Update**
  One click away to perform devices upgrade.
ARCHITECTURE

SD-WAN Orchestrator (Barrista) Options
- x86 Appliance-based
- Cloud Platform
- Edgecore ecCLOUD

Data Center

Internet

Control Plane

Data Tunnel

Work from Home

Branch Office

branch Office

SPECIFICATIONS

MINIMAL REQUIREMENT

<table>
<thead>
<tr>
<th>Manage Edges</th>
<th>10</th>
<th>100</th>
<th>500</th>
<th>1000</th>
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</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Intel I3</td>
<td>Intel I5</td>
<td>Intel E5-2620V4 (8 core)</td>
<td>Intel E5-2683V4 (16 core)</td>
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<tr>
<td>RAM</td>
<td>8 GB</td>
<td>16 GB</td>
<td>32 GB</td>
<td>64 GB</td>
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<tr>
<td>DISK</td>
<td>60 GB</td>
<td>100 GB</td>
<td>1 TB</td>
<td>2 TB</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>5 Mbps</td>
<td>20 Mbps</td>
<td>100 Mbps</td>
<td>200 Mbps</td>
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</table>

PLATFORM

SD-WAN Orchestrator
- X86 Appliance-based
- Cloud Platform
- Edgecore ecCLOUD*

*ecCLOUD will be supported in 2022, H1
<table>
<thead>
<tr>
<th>FEATURES</th>
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</table>
| Management | • Central Management  
• Zero Touch Deployment  
• Auto Discovery  
• Auto Provisioning  
• OTA Firmware Upgrade  
• TLS Encryption  
• Keep Alive Detection  
• Account Management  
• NTP  
• Email Alert  
• Event log  
• Disaster Recovery |
| Routing | • Network Address Translation (NAT)  
• WAN type: Static IP, DHCP, PPPoE  
• DHCP Server/ Client  
• Static Route Assignment  
• Dynamic Route OSPF/BGP  
• Virtual Server/ 1 to 1 NAT  
• Policy-based Routing |
| Security | • Firewall  
• ACL by IP/ Protocol/ Application  
• Tunnel Isolation  
• Management IP  
• TACACS+  
• URL Filter  
• DDoS Mitigation |
| VLAN | • Configure the VLAN for Each Port  
• Support DHCP Server for Different VLAN |
| QoS | • Bandwidth management  
• Priority management  
• Session control by IP/ Protocol/ Application |
| VPN | • Split Tunnel (Internet access from local)  
• Complete Tunnel (Internet access to remote)  
• Site to Site  
• Site to Client (Work From Home)  
• Hub-Spoke/P2P Mesh |
| Adaptive WAN Selection | • Multiple WAN  
• Auto Failover  
• Threshold Configurable  
• Traffic Steering  
• Application Aware  
• WAN Optimization |
| Package Analysis | • Traffic Flow History  
• Top Application by Volume  
• Top Source by Volume |
| Monitoring | • Manage Status  
• VPN Connection Status  
• System Information  
• Traffic Statistics  
• Tunnel Quality  
• WAN Quality |
| Management Interface | • SSH(v2)  
• HTTP/ HTTPS  
• Web-based  
• Restful API |