

# RUCKUS PRODUCT GUIDE

## CONTROL AND MANAGEMENT







| Feature                         | SmartZone 144                            | SmartZone 300  | Virtual SmartZone-E                                    | Virtual SmartZone-H                                    |
|---------------------------------|--|--|--|--|
| Number of APs supported         | Up to 2,000 / 6,000 per cluster          | Up to 10,000 / 30,000 per cluster                      | Up to 1,024 / 3,000 per cluster                        | Up to 10,000 / 30,000 per cluster                      |
| Number of switches supported    | Up to 400 / 1,200 per cluster            | Up to 2,000 / 6,000 per cluster                        | Up to 200 / 600 per cluster                            | Up to 2,000 / 6,000 per cluster                        |
| Number of clients supported     | Up to 40,000 / 120,000 per cluster       | Up to 100,000 / 450,000 per cluster                    | Up to 25,000 / 60,000 per cluster                      | Up to 100,000 / 300,000 per cluster                    |
| Ethernet ports                  | 4 x GbE ports<br>4 x 10 GbE ports (SFP+) | 6 x 1GbE ports<br>4 x 10GbE ports (SFP+)               | 1 vNIC   | 1 or 3 vNIC  |
| Authentication support          | 802.1X, MAC address                      | 802.1x, Local database, Active Directory, RADIUS, LDAP | 802.1x, Local database, Active Directory, RADIUS, LDAP | 802.1x, Local database, Active Directory, RADIUS, LDAP |
| Guest networking/captive portal | ✓  | ✓  | ✓  | ✓  |
| DHCP server                     | External or Assigned                     | External or Assigned                                   | External or vSZ-D assigned                             | External or vSZ-D assigned                             |
| AP discovery and control        | L2 / L3                                  | L2 / L3  | L2 / L3  | L2 / L3  |
| WLANs                           | Up to 2,048 per cluster                  | Up to 2,048 per zone<br>Up to 65,534 per cluster       | Up to 2,048 per cluster                                | Up to 2,048 per zone<br>Up to 65,534 per cluster       |
| Management Interface            | Web GUI, CLI                             | Web GUI, CLI   | Web GUI, CLI   | Web GUI, CLI   |
| Remote Management               | Yes                                      | Yes  | Yes  | Yes  |
| Management protocol(s)          | SNMP v3, RESTful JSON                    | SNMP v3, RESTful JSON                                  | SNMP v3  | SNMP v3  |
| VLAN support                    | Dynamic VLANs                            | Dynamic VLANs  | Dynamic VLANs  | Dynamic VLANs  |
| Data Plane                      | Tunneling or local breakout              | Tunneling or local breakout                            | Tunneling or local breakout                            | Tunneling or local breakout                            |
| Power supply                    | AC, Field Replaceable                    | DC or AC, Field Replaceable                            | N/A  | N/A  |
| Fans                            | Field Replaceable                        | Six redundant, field swappable fans in three sets      | N/A  | N/A  |
| SKU/Part number                 | P01-S144-XX00                            | 901-S300-WW10/00                                       | L09-VSCG-WW00  | L09-VSCG-WW00  |

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|                                 | WLAN Controller   | Controller-Less   | Cloud  |
|---------------------------------|---|---|--|
|                                 |  |  |  |
| Feature                         | ZoneDirector 1200   | Unleashed   | RUCKUS Cloud   |
| Number of APs supported         | Up to 150   | Up to 50  | Virtually unlimited number of APs supported  |
| Number of switches supported    | —   | Up to 8 switches  | Virtually unlimited number of switches supported                                   |
| Clients                         | Up to 4,000   | up to 1,024   | Clients per AP: refer to AP data sheet   |
| Ethernet ports                  | 2 Ethernet ports, auto MDX, autosensing 1GbE                                      | Refer to selected AP data sheet   | N/A  |
| Authentication support          | 802.1X, Local database, Active Directory, RADIUS, LDAP                            | 802/1x, local database, Active Directory, RADIUS, LDAPr                           | PSK, 802.1x, Active Directory, RADIUS, LDAP, SMS, social login, open               |
| Guest networking/captive portal | ✓   | ✓   | ✓  |
| DHCP server                     | ✓   | ✓   | External or assigned   |
| AP discovery and control        | L2 / L3   | L2  | L2   |
| SSID/WLAN support               | 256   | 16  | 15/Venue   |
| Management Interface            | Web GUI, FlexMaster   | Web GUI, CLI, Unleashed Multi-Site Manager  | Web GUI and native mobile application  |
| Remote Management               | No  | Yes   | Yes  |
| Management protocol(s)          | SNMP v3   | SNMP v3   | N/A  |
| VLAN support                    | Dynamic VLANs   | Yes   | Dynamic VLANs  |
| Data Plane                      | Tunneling or local breakout   | Local breakout  | Local breakout   |
| Power supply                    | DC or AC  | PoE   | APs powered using PoE or optional power supply                                     |
| Fans                            | —   | N/A   | N/A  |
| SKU/Part number                 | 901-1205-XX00   | Refer to Unleashed data sheet for supported devices                               | Refer to RUCKUS Cloud data sheet for supported devices                             |

|   | SmartZone  |
|---|--|
|   |   |
|   | SmartZone Data Plane   |
| Secured data plane tunneling  | Enables forwarding of user data traffic through secure tunnels on RUCKUS APs when managed by Virtual SmartZone controllers.  |
| Multiple hypervisor support   | Supports the most widely deployed VMware and KVM hypervisors   |
| NFV flexible architecture   | Complete separation of Control+Management plane (vSZ) and data plane functions (SmartZone Data Plane) via separate VMs that support distributed and centralized deployments providing compelling architecture flexibility.   |
| Works seamlessly with virtual SmartZone   | vSZ acts as the controller for RUCKUS APs as well as SmartZone Data Plane providing seamless configuration and management capabilities.  |
| Up to 10 SmartZone Data Planes per vSZ and up to 40 SmartZone Data Planes per cluster | The vSZ controller runs in Active/Active (3+1) mode for extremely high availability. Each SmartZone Data Plane runs as an independent virtual machine instance that is managed by the vSZ controller.  |
| vSZ Zone affinity for SmartZone Data Plane  | This feature enables RUCKUS APs in a particular zone establish tunnels with the SmartZone Data Plane in that particular zone. Provides flexibility for distributed and managed services deployments where the SmartZone Data Planes can be co-located on-premise with RUCKUS APs (vSZ Zones) on medium/large high density sites that need tunneling. With up to 40 SmartZone Data Planes per cluster, the SZ 3.5 release can potentially support a large number of such distributed deployments. |
| DHCP server and NAT   | This feature enables a high scale DHCP Server on the SmartZone Data Plane. The DHCP Server is a high-scale server specifically designed and architected for Wi-Fi deployments that provide near-real time IP address assignment combined with NAT this provides tremendous value to the operator since it avoids mac-address scaling limits and high costs on the network infrastructure (switches).   |
| Legal Intercept   | This feature is useful from a Legal Intercept requirements perspective and enables the ability to mirror packets in both uplink and downlink directions for Wi-Fi clients that have a CALEA warrant.   |
| Support for northbound tunnels L2oGRE   | This feature enables SmartZone Data Plane to forward WiFi client traffic to a specified 3rd party WAG (Wireless Access Gateway) over L2oGRE protocol standard.   |
| IPv6 support  | Supports IPv6 addressing for the SmartZone Data Plane interfaces as well as support forwarding of IPv6 client traffic  |
| L3 Roaming (inter SmartZone Data Plane tunnels)                                       | This feature enables L3 Roaming when traffic is tunneled to the SmartZone Data Plane. The feature relies on inter SmartZone Data Plane flexi-vpn tunnels that are dynamically created with minimal user intervention. L3 Roaming can be enabled based on VLANs or subnets.   |