SPARK VM Series

Virtual Service Delivery Gateway

Features

Fully featured mid to high range virtual service delivery gateway. SPARK VM if a fully integrated wireless or wired virtual network management appliance. Comprising of a highly scalable solution, The SPARK VM offers high throughput as well as local storage for hosting of bandwidth demanding content.

Virtualisation Support

SPARK VM provides greater flexibility and resiliency. The virtual appliance can integrate into your existing server infrastructure and support multiple instances of SPARK.

High performance Clustering

The SPARK VMs may operate in cluster mode, whereby two or more gateways can be grouped to provide service to tens of thousands of users. In cluster mode, essential configuration parameters are synchronised between gateways adding to the resiliency of the solution. Cluster mode allows for delivery of five nines reliability (99.999%).

Local Content Hosting

SPARK supports local content hosting to allow streaming of high definition or bandwidth demanding content.

Captive Portal Redirector

SPARK is responsible for intercepting the http requests from user browsing sessions. Sessions are captured and forwarded to a destination of your choice (usually the WiFi SPARK Managed Service).

Bandwidth Control

Independent control of user bandwidth upstream and downstream. User cases allow different profiles for multiple users on the same access point or access point network.

Robust management of large WiFi or wired networks.

The SPARK VM Series Virtual Service Delivery Gateway integrates wired, wireless and security networking features within a virtual appliance. SPARK is a scalable wireless solution that supports up to 5000 concurrent connections or up to 50,000 concurrent connections when clustered with multiple gateways. The SPARK VM Series is highly scalable solution to suit large enterprise WiFi deployments .

SPARK is compatible with all major virtual machine applications, providing you the advantage of integrating it into your existing virtual server environment. Other benefits also include bandwidth control, content filtering and the ability to deliver locally hosted and cached content directly to the user.

Network Integration

As with all SPARK virtual appliances, these are configured to suit your exact network and business requirements .SPARK sits on your existing virtual server environment between an internet feed or existing firewall and the access point network.

IP Addressing

SPARK may operate in NAT mode or be granted a public IP address when internet facing. Firewalling prevents unauthorised access. On the client side SPARK is a fully featured DHCP server with full configuration of subnets and lease parameters. The VM offers VLAN capability whereby multiple SSID's from the access point network can be served different IP addresses and be routed to a unique User Experience Portal for each SSID.

Typical Usage Cases

- Enterprise
- Retail
- Hospitality
- Education
- Automotive
- Marine
- Accommodation