

Feature Code	Feature	6.1	6.3	Feature Description	Constraint	Standard Edition	Advanced Edition	Platinum/Operation Edition
FSFD-01000	Computing Virtualization							
FSFD-01010	VM Resource Management							
FSFD-010101	VM QoS	•	•	VM QoS allows users to control the quality of service (QoS) for computing resources (such	Memory QoS takes effect only after the memory	•	•	•
FSFD-010102	VM Time Synchronization	•	•	VM Time Synchronization allows users to select a time synchronization policy based on	The supported time ranges from year 2000 to year	•	•	•
FSFD-010103	Memory Overcommitment	•	•	Memory Overcommitment allows a server to provide larger virtual memory than its	The recommended memory overcommitment ratio is	•	•	•
FSFD-010104	CPU Overcommitment	•	•	CPU Overcommitment allows CPU resources to be assigned to VMs based on		•	•	•
FSFD-010105	VM Support for UEFI Firmware	•	•	This feature allows users to configure the GUID Partition Table (GPT) of Unified Extensible	For OSs that support this feature, see the compatibility	•	•	•
FSFD-010106	VM Resource Adjustment	•	•	VM Resource Adjustment allows users to modify VM specifications to meet service	The system allows users to modify CPUs and memory	•	•	•
FSFD-010200	VM Life Cycle Management							
FSFD-010201	VM Life Cycle Management	•	•	VM Life Cycle Management allows users to perform the following operations based on	To safely start or stop a VM, hibernate a VM, wake up	•	•	•
FSFD-010202	VM Migration	•	•	VM Migration enables a running VM to be migrated without service interruption to		•	•	•
FSFD-010203	Cross-CPU VM Live Migration	•	•	Cross-CPU VM Live Migration allows VMs to be live migrated between hosts that use	FusionSphere supports VM live migration only	•	•	•
FSFD-010204	Shared Nothing VM Live Migration	•	•	Shared Nothing VM Live Migration enables a running VM with direct-attached storage to	This feature applies only to virtual storage.	•	•	•
FSFD-010205	VM Cloning	•	•	VM Cloning allows users to quickly create a VM by cloning an existing VM. The new VM has		•	•	•
FSFD-070206	VNC Login to a VM	•	•	FusionSphere supports VNC login to a VM for troubleshooting in the event that a user fails		•	•	•
FSFD-070207	VM Group Management	•	•	Different types of VMs are logically divided by folders for the grouping management.	The VM folder depth cannot be larger than 5, and a	•	•	•
FSFD-010300	VM Template Services							
FSFD-010301	VM Template Management	•	•	VM Template Management allows users to manage VM templates, including:		•	•	•
FSFD-010400	Computing Performance							
FSFD-010401	Guset NUMA	•	•	Guest NUMA optimizes memory access efficiency and improves memory performance for		•	•	•
FSFD-010402	Host NUMA	•	•	Host NUMA automatically allocates the CPU and memory resources of a VM to the same	If memory modules are randomly distributed on the	•	•	•
FSFD-010500	Distributed Resource Scheduling							
FSFD-010501	Dynamic Resource Scheduling	•	•	Dynamic Resource Scheduler (DRS), using the intelligent load balance scheduling algorithm		•	•	•
FSFD-010502	Dynamic Power Management	•	•	Dynamic Power Management (DPM) allows the system to power on or off hosts based on	FusionSphere powers on or off hosts using the IMPI	•	•	•
FSFD-010503	VM Deployment Group	•	•	VM Deployment Group allows VMs to be added to specified rules which determine		•	•	•
FSFD-010600	VM Snapshot							
FSFD-010601	Consistency Snapshot	•	•	Users can store disk data of running VMs in real time by storing consistency snapshots.	For details, see FusionSphere SIA descriptions.	•	•	•
FSFD-010602	VM Memory Snapshot	•	•	VM Memory Snapshot allows users to create snapshots for both memory and disk data of	Users are not allowed to create memory snapshots if	•	•	•
FSFD-010603	VM Disk Snapshot	•	•	VM Disk Snapshot allows users to create a VM disk snapshot. A snapshot is a reproduction	Users are not allowed to create VM disk snapshots if	•	•	•
FSFD-010700	VM Peripherals							
FSFD-010701	CD/DVD-ROM Drive	•	•	This feature provides a virtual CD/DVD-ROM drive for each VM so that ISO images or		•	•	•
FSFD-010702	USB Controller	•	•	USB Controller allows VMs to use USB 3.0/2.0 and USB 1.1 devices inserted into the	The VM with a USB device attached cannot be live	•	•	•
FSFD-010703	Graphics Processing Unit	•	•	Graphics Processing Unit (GPU) allows VMs to provide 4 MB video RAM using Cirrus VGA.		•	•	•
FSFD-010705	GPU Passthrough	•	•	GPU Passthrough provides advanced graphics processing functions for VMs, including 3D	For details, see FusionSphere SIA descriptions.	•	•	•
FSFD-010706	GPU Virtualization	•	•	GPU Virtualization supports virtualization of NVIDIA K1 and K2 GPUs and is compatible	For details, see FusionSphere SIA descriptions.	•	•	•
FSFD-010707	SSD Passthrough	•	•	Support nvme ssd device passthrough.	Need ES3600 series ssd.	•	•	•
FSFD-020000	Network Virtualization							
FSFD-020100	Elastic Virtual Switch							
FSFD-020101	Elastic Virtual Switch	•	•	Elastic Virtual Switch (EVS) brings a new virtual switching mode to VM networks, providing		•	•	•
FSFD-020102	Distributed Virtual Switches	•	•	A distributed virtual switch (DVS) allows administrators to configure and maintain physical		•	•	•
FSFD-020103	Network QoS	•	•	Network QoS supports traffic shaping and bandwidth priority controls for vNICs and		•	•	•
FSFD-020104	VLAN Trunk	•	•	As a gateway node, a VM may require hundreds of VLANs to implement communication.	The port group of the Trunk type allows VLANs 1 to	•	•	•
FSFD-020200	10GE/40GE NIC							
FSFD-020201	SR-IOV	•	•	Single-root I/O virtualization (SR-IOV) allows a VM to exclusively use a NIC on the physical	1. This feature supports only Intel 82599 . The Intel	•	•	•
FSFD-020202	USER MODE OVS	•	•	Provide user mode ovs network based dpdk technology for better network performance.	only support with nic intel 82599 , XL710,	•	•	•
FSFD-020300	Network Resource Pool							
FSFD-020302	VLAN Pool	•	•	VLAN Pool provides VLANs for port groups on DVSS.		•	•	•
FSFD-020400	IPV6							
FSFD-030000	Storage Virtualization							
FSFD-030100	Storage Virtualization							
FSFD-030101	Virtual Storage QoS	•	•	Virtual Storage QoS allows users to set an input/output (I/O) upper limit for each VM disk.		•	•	•
FSFD-030102	Raw Device Mapping	•	•	Raw device mapping (RDM) allows VMs to directly access logical unit numbers (LUNs) on	RDM is incompatible with the following functions,	•	•	•
FSFD-030103	Virtual File System	•	•	Virtual File System, also called Virtual Image Management System (VIMS), is a lower-layer	A VIMS cluster supports up to 64 hosts.	•	•	•
FSFD-030104	Virtual Storage Thin Provisioning	•	•	Virtual Storage Thin Provisioning enables flexible, on-demand allocation of storage space,	This feature is supported only by storage virtualization	•	•	•
FSFD-030105	Virtual Storage Live Expansion	•	•	Virtual Storage Live Expansion allows the VM disk capacity to be expanded when the VM is	This feature is supported only by storage	•	•	•
FSFD-030106	Virtual Storage Migration	•	•	Virtual Storage Migration enables disks on VMs to be migrated to other data stores when	When a VM is stopped, disks on the VM can be	•	•	•
FSFD-030107	Virtual Volume Life Cycle	•	•	Virtual Volume Life Cycle Management allows users to perform the following operations		•	•	•
FSFD-030200	Storage Management							
FSFD-030201	LUN Discovery and Management	•	•	Storage Management is a basic function of storage virtualization. Storage management		•	•	•
FSFD-040000	Interoperability							
FSFD-040100	Interface Openness							
FSFD-040101	Open APIs	•	•	Open APIs allow users to connect their own business operating systems to the cloud			•	•
FSFD-040102	SNMP Interfaces	•	•	FusionManager and FusionCompute support Simple Network Management Protocol			•	•

FSPD-040200	Compatibility								
FSPD-040201	Server Compatibility	•	•	Huawei FusionSphere supports x86 servers from various vendors. FusionSphere	For details, see FusionSphere SIA descriptions.	•	•	•	
FSPD-040202	Storage Compatibility	•	•	FusionSphere supports storage devices from mainstream vendors. Supported storage	For details, see FusionSphere SIA descriptions.	•	•	•	
FSPD-040203	Network Compatibility	•	•	FusionSphere supports network devices, including switches, firewalls, and load balancers,	For details, see FusionSphere SIA descriptions.	•	•	•	
FSPD-040204	Operating System Compatibility	•	•	FusionSphere supports a variety of guest OSs from mainstream vendors to suit specific	For details, see FusionSphere SIA descriptions.	•	•	•	
FSPD-040205	Browser Compatibility	•	•	FusionSphere supports mainstream browsers, including Internet Explorer, Mozilla Firefox,	For details, see FusionSphere SIA descriptions.	•	•	•	
FSPD-050000	<b>Backup and Disaster Recovery</b>								
FSPD-050100	<b>Active-Standby DR</b>								
FSPD-050101	Storage Replication-based DR	•	•	Storage Replication-based Disaster Recovery (DR) allows two sites far from each other to					•
FSPD-050200	<b>Metropolitan Active-Active DR</b>								
FSPD-050201	Metropolitan Active-Active DR	•	•						•
FSPD-050300	<b>VM Backup</b>								
FSPD-050301	VM Backup	•	•	VM Backup uses Huawei eBackup software, the FusionCompute snapshot function, and the	Only support Lan-base backup.	•	•	•	
FSPD-060000	<b>Availability</b>								
FSPD-060100	<b>Management System Reliability</b>								
FSPD-060101	Active and Standby Management	•	•	FusionSphere management nodes can be deployed in active/standby mode on both		•	•	•	
FSPD-060102	Black Box	•	•	Virtualization software and virtualization management software support black boxes. A	1. The black box records only logs of kernel panic.	•	•	•	
FSPD-060103	Management Data Backup	•	•	Management Data Backup allows administrators to manually back up management data of	If both active and standby VRM nodes are faulty and	•	•	•	
FSPD-060200	<b>VM HA</b>								
FSPD-060201	HA Management	•	•	FusionSphere supports VM HA to enable faulty VMs to be automatically restarted in a		•	•	•	
FSPD-070000	<b>Security</b>								
FSPD-070100	<b>Virtualization Security</b>								
FSPD-070101	Virtualization Antivirus	•	•	Virtualization Antivirus allows the antivirus function to be implemented by a			•	•	
FSPD-070200	<b>Management Security</b>								
FSPD-070201	Anti-IP/MAC Address Spoofing	•	•	FusionSphere supports IP-MAC address binding for VM NICs to prevent IP/MAC address	only support static ip bind	•	•	•	
FSPD-070203	Rights Separation Mode	•	•	The FusionSphere system has three user roles: system administrator, security		•	•	•	
FSPD-070300	<b>Data Security</b>								
FSPD-070301	Residual Data Deletion	•	•	FusionSphere supports residual data deletion for VMs and VM disks.	Not support safe delete on nas device.	•	•	•	
FSPD-070400	<b>Network Security</b>								
FSPD-070401	DHCP Snooping	•	•	DHCP Snooping is a security feature that builds and maintains a DHCP snooping binding		•	•	•	
FSPD-070402	ARP Broadcast Suppression	•	•	This feature improves service security, lowers adverse impacts on network communication		•	•	•	
FSPD-080000	<b>Virtual Data Center Services</b>								
FSPD-080100	<b>VM</b>								
FSPD-080101	VM Life Cycle Management	•	•	VM Life Cycle Management allows users to create and manage VMs on FusionManager or			•	•	
FSPD-080102	Remote Connection	•	•	Remote Connection allows users to log in to a VM using VNC. This feature is used in the			•	•	
FSPD-080103	VM Repair	•	•	VM Repair allows a VM to be restored if the VM OS fails to work properly.			•	•	
FSPD-080300	<b>Cloud Storage</b>								
FSPD-080400	<b>Virtual Volume</b>								
FSPD-080401	Virtual Volume Management	•	•	FusionSphere provides Virtual Volume Management for VMs to enable users to create,			•	•	
FSPD-080402	Virtual Volume QoS	•	•	Virtual Volume QoS allows administrators to flexibly select storage media to use as the			•	•	
FSPD-080500	<b>Cloud Monitoring</b>								
FSPD-080501	Cloud Monitoring	•	•	System Monitoring helps administrators learn the hardware and software operating status			•	•	
FSPD-080600	<b>Network QoS</b>								
FSPD-080601	Network QoS	•	•	Network QoS allows administrators to set the inbound and outbound network traffic rates			•	•	
FSPD-080700	<b>Load Balancing</b>								
FSPD-080800	<b>Virtual Private Cloud Services</b>								
FSPD-080801	VPC Management	•	•	A virtual private cloud (VPC) provides an exclusive, isolated network container for			•	•	
FSPD-080803	VPC Network Management	•	•	VPC Network Management allows users to manage VPC networks that consist of internal			•	•	
FSPD-080807	VPC Specifications Template	•	•	VPC Specifications Template defines the specifications of a VPC, including the number and			•	•	
FSPD-080900	<b>Multi-Tenant Support</b>								
FSPD-080901	VDC	•	•	Virtual Data Center (VDC) is a collection of virtual computing, storage, and network			•	•	
FSPD-080902	Tenant Management	•	•	Tenant Management allows FusionSphere to lease cloud platform resources to multiple			•	•	
FSPD-081000	<b>Cloud Network Resource Pool</b>								
FSPD-081002	VLAN Resource Pool Management	•	•	VLAN Resource Pool Management defines which VLANs can be used by FusionSphere.			•	•	
FSPD-081100	<b>Application Instance Scaling</b>								
FSPD-081200	<b>Service Automation</b>								
FSPD-081300	<b>VM Template Services</b>								
FSPD-081301	VM Template Management	•	•	VM Template Management allows users to create VM templates, discover existing			•	•	
FSPD-081303	Secondary Storage	•	•	Secondary Storage allows users to add secondary storage for creating VM templates.			•	•	
FSPD-081304	Logical Template Management	•	•	Logical Template Management allows users to perform operations related to logical			•	•	
FSPD-081400	<b>Resource Pool Management</b>								
FSPD-081401	Resource SLA	•	•	Resource SLA enables FusionSphere to allocate computing, storage, and network resources			•	•	
FSPD-081402	Integrating Heterogeneous Virtual	•	•	FusionManager supports hypervisors from various third-party vendors.	FusionSphere supports vCenter 5.0, 5.1, 5.5, and 6.0.		•	•	
FSPD-081500	<b>Self-Service Mode</b>								
FSPD-081500	<b>Approving Service Mode</b>								

FSFD-090000	<b>Infrastructure Management</b>							
FSFD-090100	Infrastructure Management							
FSFD-090104	Alarm Notification by Email or SMS	•	•	Alarm Notification by Email or SMS allows FusionSphere to connect to the email system or	This feature supports only the SGIP1.2 protocol.		•	•
FSFD-090200	<b>Integrated Management</b>							
FSFD-090201	Upgrade/Patching	•	•	Upgrade/Patching allows users to upgrade or patch the system.	This feature is released only by FusionTool.	•	•	•
FSFD-090202	Information Collection Tool	•	•	FusionSphere provides an information collection tool that automatically collects system	This feature is released only by FusionTool.	•	•	•
FSFD-090203	Health Check Tool	•	•	FusionSphere provides a health check tool that checks the health status of FusionCompute	This feature is released only by FusionTool.	•	•	•
FSFD-090300	System Operation Insight							
FSFD-100000	<b>Industrial Support</b>							
FSFD-100100	Industrial Support							
FSFD-012300	VRM Heterogeneous Migration			These functions enable services to be migrated from VMware, XEN, and KVM virtualization			Rainbow is released separately	
FSFD-012301	Automatic Migration	•	•	Users can perform automatic migration by performing only four steps in one minute.	1. Rainbow must be interconnected with the VRM			
FSFD-012303	Windows Migration	•	•	Windows migration at the file level and written data migration (instead of whole disk				
FSFD-012304	Linux Migration	•	•	Linux migration at the file and block level is supported.				
FSFD-012305	Offline Data Synchronization	•	•	With this feature, users can synchronize data after VMs are migrated.				
FSFD-012306	Concurrent Task Migration	•	•	Up to 30 migration tasks can be concurrently performed.				
FSFD-012307	Log Collection	•	•	With this feature, users can collect logs by few clicks.				
FSFD-012308	Support for Guest OS	•	•	1. Over 160 operating systems are supported.				