BMC Command List

Document Number			
Rev. #	V 0.1.1		
Prepared By	WangYong	**Date**	2020/06/16
Approved By		**Date**	

Document Revision History

Ver#	Date	Change item	Description of change
0.1.0	2020/04/22	None	Initial Version
0.1.1	2020/06/16	Add commands	

Table of Contents

1. Common command

1.1 Collect BMC information

Type	Command Format	Description
In Band	Ipmitool mc info	BMC version
	ipmitool lan print	LAN information
	ipmitool fru	FRU information
	ipmitool sel elist	SEL information
	ipmitool sensor	Sensor information
Out Band	ipmitool -I lanplus -H <*BMC IP*> -U <*username*> -P <*password*> mc info	BMC version
	ipmitool -I lanplus -H <*BMC IP*> -U <*username*> -P <*password*> lan print	LAN information
	ipmitool -I lanplus -H <*BMC IP*> -U <*username*> -P <*password*> fru	FRU information
	ipmitool -I lanplus -H <*BMC IP*> -U <*username*> -P <*password*> sel elist	SEL information
	ipmitool -I lanplus -H <*BMC IP*> -U <*username*> -P <*password*> sensor	Sensor information

1.2 Restore BMC to Default

Type	Command Format	Description
In Band	ipmitool raw 0x32 0x66	Restore BMC
Out Band	ipmitool -I lanplus -H <*BMC IP*> -U <*username*> -P <*password*> raw 0x32 0x66	Restore BMC

1.3 Power On / Off / Reset the system

Type	Command Format	Description
In Band	ipmitool power status	check power status
	ipmitool power off	system power off
	ipmitool power on	system power on
	ipmitool power reset	system power reset
Out Band	ipmitool -I lanplus -H <*BMC IP*> -U <*username*> -P <*password*> power status	check power status
	ipmitool -I lanplus -H <*BMC IP*> -U <*username*> -P <*password*> power off	system power off
	ipmitool -I lanplus -H <*BMC IP*> -U <*username*> -P <*password*> power on	system power on

	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* power reset	system power reset

1.4 Reset BMC

Type	Command Format	Description
In Band	ipmitool mc reset cold	Reset BMC
Out Band	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* mc reset cold	Reset BMC

1.5 List Monitor Sensors

Type	Command Format	Description
In Band	ipmitool sdr list	All sensors list
	ipmitool sdr type Temperature	Temperature sensors
	ipmitool sdr type Voltage	Voltage sensors
	ipmitool sdr type Fan	Fan sensors
Out Band	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* sdr list	All sensors list
	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* sdr type Temperature	Temperature sensors
	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* sdr type Voltage	Voltage sensors
	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* sdr type Fan	Fan sensors

1.6 BMC IP Setting

Type	Command Format	Description
In Band	ipmitool lanplus print	check lan info
	ipmitool lanplus set *<channel_no>* ipaddr xxx.xxx.xxx.xxx	set ip address
	ipmitool lanplus set *<channel_no>* netmask xxx.xxx.xxx.xxx	set net mask address
	ipmitool lanplus set *<channel_no>* defgw ipaddr xxx.xxx.xxx.xxx	set gateway address
Out Band	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* lan print	check lan info
	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* lan set *<channel_no>* ipaddr xxx.xxx.xxx.xxx	set ip address
	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* lan set *<channel_no>* netmask xxx.xxx.xxx.xxx	set net mask address
	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* lan set *<channel_no>* defgw ipaddr xxx.xxx.xxx.xxx	set gateway address

1.7 BMC DHCP / Dedicated Setting

Type	Command Format	Description
In Band	ipmitool lan set *<channel_no>* ipsrc static	Set BMC IP to static mode
	ipmitool lan set *<channel_no>* ipsrc dhcp	Set BMC IP to DHCP mode
Out Band	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* lan set *<channel_no>* ipsrc static	Set BMC IP to static mode
	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* lan set *<channel_no>* ipsrc dhcp	Set BMC IP to DHCP mode

1.8 Event Logs

Type	Command Format	Description
In Band	ipmitool sel list	check all event logs
	ipmitool sel clear	clean all event logs
Out Band	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* sel list	check all event logs
	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* sel clear	clean all event logs

1.9 System Information

Type	Command Format	Description
In Band	ipmitool fru list	check system info
Out Band	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* fru list	check system info

1.10 Serial Over LAN

Type	Command Format	Description
In Band	ipmitool sol set enabled false	**Disable** Serial over LAN
	ipmitool sol set enabled true	**Enable** Serial over LAN
	ipmitool sol activate	Start SOL
Out Band	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* sol set enabled false	**Disable** Serial over LAN
	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* sol set enabled true	**Enable** Serial over LAN
	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* sol activate	Start SOL

1.11 Create New User

Type	Command Format	Description
In Band	ipmitool user set name 5 test	
	ipmitool user set password 5 test	
	Ipmitool user enable 5	
	Ipmitool user priv 5 4 1	
	Ipmitool channel setaccess 1 5 callin=on ipmi=on link=off privilege=4	
	Ipmitool user list 1	
Out Band	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* user set	

	name 5 test	
	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* user set password 5 testfa	
	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* user enable 5	
	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* user priv 5 4 1	
	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* channel setaccess 1 5 callin=on ipmi=on link=off privilege=4	
	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* user list	

1.12 Enable/Disable shared/ dedicated port

Enable ports: 0x03 enables IPv4 and IPv6, 0x01 is IPv4 only, 0x02 is IPv6 only

Type	**Command Format**	**Description**
In Band	ipmitool raw 0x32 0x71 0x00 0x00 0x03	Enable shared port
	ipmitool raw 0x32 0x71 0x00 0x01 0x03	Enable dedicated port
	ipmitool raw 0x32 0x71 0x00 0x00 0x00	Disable shared port
	ipmitool raw 0x32 0x71 0x00 0x01 0x00	Disable dedicated port
Out Band	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* raw 0x32 0x71 0x00 0x00 0x03	Enable shared port
	ipmitool -I lanplus -H <BMC IP> -U <username> -P <password> raw 0x32 0x71 0x00 0x01 0x03	Enable dedicated port
	ipmitool -I lanplus -H <BMC IP> -U <username> -P <password> raw 0x32 0x71 0x00 0x00 0x00	Disable shared port
	ipmitool -I lanplus -H <BMC IP> -U <username> -P <password> raw 0x32 0x71 0x00 0x01 0x00	Disable dedicated port

1.13 Disable NTP

Type	**Command Format**	**Description**
In Band	ipmitool raw 0x32 0xa8 0x03 0x0	
Out Band	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* raw 0x32 0xa8 0x03 0x0	

1.14 Virtual Device Close/Open

Type	**Command Format**	**Description**
In Band	ipmitool raw 0x32 0xcb 0x04 0x00	close
	ipmitool raw 0x32 0xcb 0x05 0x00	close
	Ipmitool raw 0x32 0xcb 0x06 0x00	close
	Ipmitool raw 0x32 0xcb 0x10 0x00	close
	Ipmitool raw 0x32 0xcb 0x04 0x01	Open
	Ipmitool raw 0x32 0xcb 0x05 0x01	Open
	ipmitool raw 0x32 0xcb 0x06 0x01	Open
	ipmitool raw 0x32 0xcb 0x10 0x01	Open
Out Band	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password>* raw 0x32 0xcb 0x04 0x00	close

	ipmitool -I lanplus -H <*BMC IP*> -U <*username*> -P <*password*> raw 0x32 0xcb 0x05 0x00	close
	ipmitool -I lanplus -H <*BMC IP*> -U <*username*> -P <*password*> raw 0x32 0xcb 0x06 0x00	close
	ipmitool -I lanplus -H <*BMC IP*> -U <*username*> -P <*password*> raw 0x32 0xcb 0x10 0x00	close
	ipmitool -I lanplus -H <*BMC IP*> -U <*username*> -P <*password*> raw 0x32 0xcb 0x04 0x01	Open
	ipmitool -I lanplus -H <*BMC IP*> -U <*username*> -P <*password*> raw 0x32 0xcb 0x05 0x01	Open
	ipmitool -I lanplus -H <*BMC IP*> -U <*username*> -P <*password*> raw 0x32 0xcb 0x06 0x01	Open
	ipmitool -I lanplus -H <*BMC IP*> -U <*username*> -P <*password*> raw 0x32 0xcb 0x10 0x01	Open

Device Configuration parameters:

Parameter	#	Parameter Data
Num_cd	4	Data1: [7:3]: Reserved [2:1]: Num of Cd's If Num_cd > 0x04 Invalid data.
Num_fd	5	Data1: [7:3]: Reserved [2:1]: Num of Fd's If Num_fd > 0x04 Invalid data.
Num_hd	6	Data1: [7:3]: Reserved [2:1]: Num of Hd's If Num_hd > 0x04 Invalid data
Restart Vmedia	10	Data1: 1 = Restart the vmapp, after 2 seconds vmapp service automatically will restart then only the above setting values will be updated in the configurations.

2. IPMI Commands

The BMC support all MANDATORY IPMI commands listed in the IPMI v2.0 Specification. The following commands need to refer <***Intelligent Platform Management Interface Specification***>

Ex: ipmitool raw <NetFN> <CMD> <request data>

ipmitool -I lanplus -H <BMC IP> -U <username> -P <password> raw <NetFN> <CMD> <request data>

2.1 IMB Device Commands

Net FN	CMD	Command Name
06h	01h	Get Device ID
06h	02h	Cold Reset
06h	03h	Warm Reset
06h	04h	Get Self-Test Results

Example:

Type	Command Format	Description
In Band	ipmitool raw 0x06 0x01	Get Device ID
	ipmitool raw 0x06 0x02	Cold Reset
	ipmitool raw 0x06 0x03	Warm Reset
Out Band	ipmitool -I lanplus -H <BMC IP> -U <username> -P <password> raw 0x06 0x01	Get Device ID
	ipmitool -I lanplus -H <BMC IP> -U <username> -P <password> raw 0x06 0x02	Cold Reset
	ipmitool -I lanplus -H <BMC IP> -U <username> -P <password> raw 0x06 0x03	Warm Reset

2.2 BMC Device and Messaging Commands

Net FN	CMD	Command Name
06h	2Eh	Set BMC Global Enables
06h	2Fh	Get BMC Global Enables
06h	30h	Clear Message Flags
06h	31h	Get Message Flags
06h	33h	Get Message
06h	34h	Send Message
06h	52h	Master Write-Read

2.3 Chassis Device Commands

Net FN	CMD	Command Name
00h	00h	Get Chassis Capabilities
00h	03h	Chassis Reset

2.4 Event Commands

Net FN	CMD	Command Name
04h	00h	Set Event Receiver
04h	01h	Get Event Receiver
04h	02h	Platform Event

2.5 PEF and Alerting Commands

Net FN	CMD	Command Name
04h	10h	Get PEF Capabilities
04h	11h	Arm PEF Postpone Timer
04h	12h	Set PEF Configuration Parameters
04h	13h	Get PEF Configuration Parameters
04h	14h	Set Last Processed Event ID

04h	15h	Get Last Processed Event ID

2.6 Sensor Device Commands

Net FN	CMD	Command Name
04h	2Dh	Get Sensor Reading

2.7 FRU Device Commands

Net FN	CMD	Command Name
0Ah	10h	Get FRU Inventory Area Info
0Ah	11h	Read FRU Data
0Ah	12h	Write FRU Data

2.8 SDR Device Commands

Net FN	CMD	Command Name
0Ah	20h	Get SDR Repository Info
0Ah	22h	Reserve SDR Repository
0Ah	23h	Get SDR
0Ah	24h	Add SDR
0Ah	25h	Partial Add SDR
0Ah	27h	Clear SDR Repository
0Ah	28h	Get SDR Repository Time

2.9 SEL Device Commands

Net FN	CMD	Command Name
0Ah	40h	Get SEL Info
0Ah	43h	Get SEL Entry
0Ah	44h	Add SEL Entry
0Ah	45h	Partial Add SEL Entry
0Ah	47h	Clear SEL
0Ah	48h	Get SEL Time
0Ah	49h	Set SEL Time

2.10 LAN Device Commands

Net FN	CMD	Command Name
0Ch	01h	Set LAN Configuration Parameters
0Ch	02h	Get LAN Configuration Parameters

2.11 LAN Device Commands

Net FN	CMD	Command Name
0Ch	10h	Set Serial/Modem Configuration
0Ch	11h	Get Serial/Modem Configuration

2.12 Bridge Management Commands (ICMB)

Net FN	CMD	Command Name
02h	0Ah	Get ICMB Connector Info

2.13 Data Center Management Interface (DCMI)

Net FN	CMD	Command Name
		DCMI Get Platform Power Reading

Example:

Type	Command Format	Description
In Band	ipmitool -t 0x2c -b 6 dcmi power reading	Get Platform Power Reading
Out Band	ipmitool -I lanplus -H <BMC IP> -U <username> -P <password> -t 0x2c -b 6 dcmi power reading	Get Platform Power Reading

3. Oem command

3.1 Get Device Quantity Command

Parameter	*#*	*Parameter Data*
CPU Quantity	*01*	*Data 1 – CPU quantity, integer, 2 maximum.*
DIMM Quantity	*02*	*Data 1 – DIMM quantity, integer, 24 maximum.*
PCIe Card Quantity	*03*	*Data 1 – PCIe card quantity, integer, 3 maximum.*
Hard Disk Quantity	*04*	*Data 1 – HDD quantity, integer, 14 maximum.*
Fan Quantity	*05*	*Data 1 – Fan quantity, integer, 7 maximum.*

Type	Command Format	Description
In Band	*ipmitool raw 0x2e 0x44 Parameter*	
Out Band	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password> raw 0x2e 0x44 Parameter*	

3.2 Get Status LED Error ID Command

Type	Command Format	Description
In Band	*ipmitool raw 0x2e 0x41*	
Out Band	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password> raw 0x2e 0x41*	

Return

Byte1	*Error ID:* *[7] – 1b=Lan Leash Lost* *[6] – 1b=CPU error* *[5] – 1b=CPU over heat* *[4] – 1b=DIMM over heat* *[3] – 1b=Inlet temperature over heat* *[2] – 1b=Fan failure* *[1] – 1b=PSU failure* *[0] – 1b=DIMM Error*

3.3 Set Fan Configuration Command

byte1	*Fan control mode:*

	[7:1] – reserved *[0] – fan control mode* *0b = manual mode* *Fan speed is determined by byte 2 & 3* *1b = auto mode* *Thermal profile is determined by byte 2*
byte2	*Manual mode:* *Fan number:* *00h = for all fans.* *01h = system fan 1* *02h = system fan 2* *03h = system fan 3* *04h = system fan 4* *05h = system fan 5* *06h = system fan 6* *07h = system fan 7 (HR630X only)* *All others = no use* *Auto mode:* *00h = Auto detect thermal profile* *01h = OEM thermal profile* *All others = no use*
byte3	*Manual mode:* *Duty cycle output:* *00h ~ 64h = duty cycle output (0% ~ 100%)* *All others = no use* *Auto mode:* *Keep as 0.*

Type	**Command Format**	**Description**
In Band	*ipmitool* raw 0x2e 0x30 byte1 byte2 byte3	
Out Band	ipmitool -I lanplus -H <*BMC IP*> -U <*username*> -P <*password*> raw 0x2e 0x30 byte1 byte2 byte3	

3.4 Get Fan Configuration Command

Type	**Command Format**	**Description**
In Band	*ipmitool* raw 0x2e 0x31	
Out Band	ipmitool -I lanplus -H <*BMC IP*> -U <*username*> -P <*password*> raw 0x2e 0x31	

Return

byte1	Fan control mode: [7:2] – reserved [1] – fan cooling mode

	0b = Auto detect thermal profile 1b = OEM thermal profile [0] – fan control mode 0b = manual mode 1b = auto mode
byte2	Duty cycle of system fan 1
byte3	Duty cycle of system fan 2
byte4	Duty cycle of system fan 3
byte5	Duty cycle of system fan 4
byte6	Duty cycle of system fan 5
byte7	Duty cycle of system fan 6
byte8	Duty cycle of system fan 7
byte9	Duty cycle of system fan 8

3.5 Set Thermal Profile Command

Byte1	Thermal profile: the profile number to auto fan control mode.

Type	**Command Format**	**Description**
In Band	*ipmitool raw 0x2e 0x32* byte1	
Out Band	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password> raw 0x2e 0x32* byte1	

3.6 Get Thermal Profile Command

Type	**Command Format**	**Description**
In Band	*ipmitool raw 0x2e 0x33*	
Out Band	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password> raw 0x2e 0x33*	

Return

Byte1	*Thermal profile: current profile number that auto fan control used.*

3.7 Set Product ID Command

Type	**Command Format**	**Description**
In Band	*ipmitool raw 0x2e 0x46 0x02* byte1	
Out Band	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password> raw 0x2e 0x46 0x02 byte1*	

Byte1	*Product ID. (ex:0x57 for EMEA customers)*

3.8 Get Product ID Command

Type	**Command Format**	**Description**

In Band	*ipmitool raw 0x2e 0x45 0x02*	
Out Band	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password> raw 0x2e 0x0x45 0x02*	

Return

Byte1	*Product ID.*

3.9 Set PSU Configuration Command

Type	Command Format	Description
In Band	*ipmitool raw 0x2e 0x20* byte1	
Out Band	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password> raw 0x2e 0x20 byte1*	

Byte1	*Parameter selector. (ex: 0x04, percentage 0-120)*

PSU Configuration Parameters

Parameter	#	Parameter Data
Redundant Mode	01	Data 1 – Redundant mode setting. 00H ~ 02H = redundant mode, per table of "PSU Cold Redundant Conditions" Others = no used.
PSU Quantity	02	Data 1 – PSU quantity by manufacturing default. The PSU quantity must be saved in NVRAM. 01H ~ 02H = PSU Quantity. Others = no used.
PSU Ion	03	Data 1 – PSU Ion value. 0~120 = 0% ~ 120% of PSU rated current. Default value is 55.
PSU Ioff	04	Data 1 – PSU Ioff value. 0~120 = 0% ~ 120% of PSU rated current. Default value is 20.

3.10 Get MAC Address for the OCP Adapter

Type	Command Format	Description
In Band	*ipmitool raw 0x2e 0x40 0x05 0x00*	*Port 1*
	ipmitool raw 0x2e 0x40 0x05 0x01	*Port 2*
Out Band	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password> raw 0x2e 0x40 0x05 0x00*	*Port 1*
	ipmitool -I lanplus -H *<BMC IP>* -U *<username>* -P *<password> raw 0x2e 0x40 0x05 0x01*	*Port 2*

4. ·Redfish command

4.1. ServiceRoot.v1_1_1.ServiceRoot

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1	The root URL for Redfish version 1 services shall be "/redfish/v1/". The root URL for the service returns a ServiceRoot resource as defined by this specification.	Yes

4.2. ComputerSystemCollection.ComputerSystemCollection

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Systems	This resource references a collection of links, each pointing to a Computer System resource instance.	Yes

4.3. ComputerSystem.v1_3_0.ComputerSystem

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Systems/Self	A computer system represents a machine (physical or virtual) and the local resources such as memory, CPU and other devices that can be accessed from that machine. Information on these resources or sub systems are also linked to this resource. This resource shall be used to represent resources that represent a computing system in the Redfish specification.	Yes
Get	/redfish/v1/Systems/Self/EthernetInterfaces	The value of this property shall be a link to a collection of type EthernetInterfaceCollection. Contains a link to a resource.	Yes
Patch	Boot::BootSourceOverrideTarget Boot::BootSourceOverrideEnabled, Boot::UefiTargetBootSourceOverride Boot::BootSourceOverrideMode IndicatorLED AssetTag	Patch setting	Yes
Action	ComputerSystem.Reset	Host system power action.	Yes

4.4.LogServiceCollection.LogServiceCollection

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Systems/Self/LogServices /redfish/v1/Managers/Self/LogServices /redfish/v1/Chassis/Self/LogServices	This represents the collection of Log Service resources.	Yes

4.5.LogService.v1_0_3.LogService

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Systems/Self/LogServices/BIOS /redfish/v1/Managers/Self/LogServices/EventLog /redfish/v1/Managers/Self/LogServices/AuditLog /redfish/v1/Managers/Self/LogServices/SEL /redfish/v1/Chassis/Self/LogServices/Logs	This resource represents the log service for the resource or service to which it is associated. This resource shall be used to represent a log service for a Redfish implementation. BIOS logs are supported under Systems LogServices. /redfish/v1/Ssytems/Self/LogServices/BIOS AuditLog, EventLog & SEL are supported under Manager LogServices. /redfish/v1/Managers/Self/LogServices/AuditLog /redfish/v1/Managers/Self/LogServices/SEL /redfish/v1/Managers/Self/LogServices/EventLog Logs are supported under Chassis LogServices. /redfish/v1/Chassis/Self/LogServices/Logs	Yes
Patch	DateTime DateTimeLocalOffset	Patch setting	Yes
Action	LogService.ClearLog	Clean log action	Yes

4.6.LogEntryCollection.LogEntryCollection

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Systems/Self/LogServices/BIOS/Entries /redfish/v1/Managers/Self/LogServices/EventLog/Entries /redfish/v1/Managers/Self/LogServices/AuditLog/Entries /redfish/v1/Managers/Self/LogServices/SEL/Entries /redfish/v1/Chassis/Self/L	This represents the collection of Log Entry resources	Yes

	ogServices/Logs/Entries		

4.7.LogEntry.v1_1_1.LogEntry

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Systems/Self/LogServices/BIOS/Entries /redfish/v1/Managers/Self/LogServices/EventLog/Entries /redfish/v1/Managers/Self/LogServices/AuditLog/Entries /redfish/v1/Managers/Self/LogServices/SEL/Entries /redfish/v1/Chassis/Self/LogServices/Logs/Entries	This resource represents the log record format for logs. It is designed to be used for SEL logs from IPMI as well as Event Logs and OEM specific logs. The EntryType NAME indicates the type of log and there are other properties	Yes

4.8.ChassisCollection.ChassisCollection

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Chassis	This resource shall be used to represent a collection of chassis.	Yes

4.9.Chassis.v1_4_0.Chassis

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Chassis/Self	Chassis resource represents the physical components properties for any system. The non-CPU/device centric parts of the schema are all accessed either directly or indirectly through this resource. This one object is intended to represent racks, rack mount servers, blades, standalone, modular systems, enclosures, and all other containers.	Yes
Patch	AssetTag IndicatorLED	Patch setting	Yes
Action	Chassis.Rese	BMC reboot action	Yes

4.10.Power.v1_2_1.Power

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Chassis/Self/	This resource shall be used to represent a power	Yes

	Power	metrics resource for a Redfish implementation.	
Patch	PowerControl:PowerLimit :LimitInWatts PowerControl:PowerLimit :LimitException PowerControl:PowerLimit :CorrectionInMs	Patch setting	Yes

4.11.ManagerCollection.ManagerCollection

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Managers	This resource shall be used to represent a collection of managers.	Yes

4.12.Manager.v1_3_0.Manager

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Managers/Self	This is the schema definition for a Manager. Examples of managers are BMCs, Enclosure Managers, Management Controllers and other subsystems assigned manageability functions.	Yes
Patch	GraphicalConsole::ServiceEnabled DateTime DateTimeLocalOffset	Patch setting	Yes
Action	Manager.Reset	Host system power action.	Yes

4.13.SerialInterfaceCollection.SerialInterfaceCollection

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Managers/Self/SerialInterfaces	This schema defines an asynchronous collection of serial interface resource. This resource shall be used to represent serial resources as part of the Redfish specification.	Yes

4.14.SerialInterface.v1_0_3.SerialInterface

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Managers/Self/SerialInterfaces/IPMI-SOL	This schema defines an asynchronous serial interface resource. This resource shall be used to represent serial resources as part of the Redfish	Yes

		specification	
Patch	BitRate InterfaceEnabled	Patch setting	Yes

4.15.AccountService.v1_1_0.AccountService

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/AccountService	This resource shall be used to represent a management account service for a Redfish implementation. Allows user to create multiple account with different roles and privileges.	Yes
Patch	ServiceEnabled	Patch setting	Yes

4.16.ManagerAccountCollection.ManagerAccountCollection

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/AccountService/Accounts	It is a collection of resources that represents the user accounts	Yes

Create	Example POST Request:
	{
	"Enabled": true,
	"Password": "superuser",
	"UserName": "user_account",
	"RoleId": "Operator"
	}
		Create a user account	Yes

4.17.ManagerAccount.v1_0_3.ManagerAccount

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/AccountService/Accounts/{Id}	This resource shall be used to represent resources that represent the user accounts for the manager	Yes
Patch	Password UserName RoleId Enabled	Patch setting	Yes
Delete		Delete a user account	Yes

4.18.RoleCollection.RoleCollection

Http Method	Implemented URL	Description	Real data ?

Get	/redfish/v1/AccountService/Roles	It displays a collection of ID ' s subscribed to the roles in Redfish.	Yes
Create		Create a roles and privileges.	Yes

4.19.Role.v1_0_2.Role

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/AccountService/Roles/{Role Name}	This resource shall be used to represent resources that represent the user role for the user account	Yes
Patch	AssignedPrivileges	Patch setting	Yes
Delete		Delete a roles.	Yes

4.20.SessionCollection.SessionCollection

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/SessionService	This resource shall be used to represent the Session Service Properties for a Redfish implementation. It represents the properties for the service itself and has links to the actual list of sessions.	Yes

Create	Example POST Request:
	{
	"UserName": "Administrator",
	"Password": "superuser"
	}
		Create a new session.	Yes

4.21.SessionService.v1_1_1.SessionService

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/SessionService/Sessions/{session_id}	It displays the collection of links to each session.	Yes
Delete		Delete a session.	Yes

4.22.EthernetInterfaceCollection.EthernetInterfaceCollection

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Managers/Self/EthernetInterfaces	This resource shall be used to represent the collection of host side Ethernet interfaces.	Yes

4.23.EthernetInterface.v1_2_0.EthernetInterface

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Managers/Self/EthernetInterfaces/{manager_ethifc_instance}	This resource shall be used to represent the EthernetInterfaces in the manager.	Yes
Patch	AutoNeg FQDN FullDuplex InterfaceEnabled MTUSize HostName SpeedMbps VLAN::VLANEnable VLAN::VLANId IPv4Address::Address IPv4Address::SubnetMask IPv4Address::Gateway IPv6Address::Address	Patch setting	Yes

4.24.Drive.v1_1_1.Drive

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Chassis/Self/Drives/{FruId}	This resource shall be used to represent a disk drive or other physical storage medium for a Redfish implementation.	Yes

4.25.ProcessorCollection.ProcessorCollection

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Systems/Self/Processors	This resource shall be used to represent the collection of host side Processors.	Yes

4.26.Processor 1.0.3.Processor

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Systems/Self/Processors/{system_processor_instance}	This is the schema definition for the Processor	Yes

		resource. It represents the properties of a processor attached to a System.	

4.27.Memory Collection.Memory Collection

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Systems/Self/Memory	It displays a list of Memory instances. This represents the collection of Memory resources.	Yes

4.28.Memory 1.1.0.Memory

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Systems/Self/Memory/{Memory_instance}	Displays the information about the Memory devices.	Yes

4.29.PCIeDevice 1.0.1.PCIeDevice

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Chassis/Self/PCIeDevices/{{PCIeDevices_instance}}	This is the schema definition for the PCIeDevice resource. It represents the properties of a PCIeDevice attached to a System.	Yes

4.30.PCIeFunction 1.0.1.PCIeFunction

Http Method	Implemented URL	Description	Real data ?
Get	redfish/v1/Chassis/Self/PCIeDevices/{{PCIeDevices_instance}}/Functions/{{PCIeFunctions_instnace}}	This is the schema definition for the PCIeFunction resource. It represents the properties of a PCIeFunction attached to a System.	Yes

4.31.EventService 1.0.3.EventService

Http Method	Implemented URL	Description	Real data ?

Get	/redfish/v1/EventService	The Event Service resource contains properties for managing event subscriptions and generates the events sent to subscribers.	Yes
Patch	ServiceEnabled	Patch setting	Yes
Action	EventService.SubmitTestEvent	Reference EventTypes For Subscription.	Yes

4.32.SubscriptionCollection.SubscriptionCollection

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/EventService/Subscriptions	It displays a collection of ID's subscribed to this Redfish EventService and conforms to the Event Destination Collection Schema.	Yes

Create	Example POST Request:
	{
	"Context": "ABCDEFGH",
	"Destination":
	"http://10.0.145.99:3002/",
	"EventTypes": [
	"Alert",
	"StatusChange"
	],
	"Protocol": "Redfish"
	}
		Create a Subscription	Yes

4.33.EventDestination 1.1.1.EventDestination

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/EventService/Subscriptions/{Subscriptions_instance}	An Event Destination desribes the target of an event subscription, including the types of events subscribed and context to provide to the target in the Event payload.	Yes
Delete		Delete a Subscription	Yes

4.34.Message Registry File Collection.Message Registry File Collection

Http Method	Implemented URL	Description	Real data ?

Get	/redfish/v1/Registries/	Contains a list of registries supported by the redfish service.	Yes

4.35.MessageRegistryFile 1.0.3.MessageRegistryFile

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Registries/{Registry_instance}	This is the schema definition for the Schema File locator resource. This resource shall be used to represent the Schema File locator resource for a Redfish implementation.	Yes

4.36.MessageRegistry 1.0.3.MessageRegistry

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/Registries/{Registry_instance.json}	MessageRegistry is a collection of Messages and has the properties as mentioned in the Message Schema above.	No

4.37.TaskService 1.0.3.TaskService

Http Method	Implemented URL	Description	Real data ?
Get	redfish/v1/TasksService	This resource shall be used to represent a task service for a Redfish implementation. It represents the properties for the service itself and has links to the actual list of tasks.	Yes
PATCH	ServiceEnabled	Patch setting	Yes

4.38.Task Collection.Task Collection

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/TaskService/Tasks	It displays the collection of links to each task.	Yes

4.39.Task 1.0.3.Task

Http Method	Implemented URL	Description	Real data ?
Get	/redfish/v1/TaskService/Tasks/{task_instance}	This resource contains information about a specific Task scheduled by or being executed by a Redfish service's Task	Yes

		Service.	