



回應範例 Element Software

NetApp
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目錄

回應範例	1
如需詳細資訊、請參閱	1
組態設定	1
GetClusterHardwareInfo	4
GetLldpInfo	17
GetNetwork組態	47
GetNodeHardwareInfo (iSCSI輸出)	51
GetNodeHardwareInfo (光纖通道節點的輸出)	53
GetNvramInfo	60
ListActiveNode	69
listActiveVolumes	72
測試硬體組態	82

回應範例

此處提供完整的回應範例。

- [組態設定](#)
- [GetClusterHardwareInfo](#)
- [GetLdapInfo](#)
- [GetNetwork組態](#)
- [GetNodeHardwareInfo \(iSCSI輸出\)](#)
- [GetNodeHardwareInfo \(光纖通道節點的輸出\)](#)
- [GetNvramInfo](#)
- [ListActiveNode](#)
- [listActiveVolumes](#)
- [測試硬體組態](#)

如需詳細資訊、請參閱

- ["零件與元件軟體文件SolidFire"](#)
- ["先前版本的NetApp SolidFire 產品及元素產品文件"](#)

組態設定

此 `GetConfig` 方法會傳回類似下列範例的回應。由於長度限制、回應僅包含叢集其中一個節點的資訊。

```
{
  "id": 1,
  "result": {
    "config": {
      "cluster": {
        "cipi": "Bond10G",
        "cluster": "AutoTest2-Fjqt",
        "encryptionCapable": true,
        "ensemble": [
          "1:10.1.1.0",
          "3:10.1.1.0",
          "4:10.1.1.0"
        ],
        "mipi": "Bond1G",
        "name": "NLABP2605",
        "nodeID": 1,

```

```

        "pendingNodeID": 0,
        "role": "Storage",
        "sipi": "Bond10G",
        "state": "Active",
        "version": "11.0"
    },
    "network": {
    "Bond10G": {
        "#default": false,
        "address": "10.1.1.0",
        "auto": true,
        "bond-downdelay": "0",
        "bond-fail_over_mac": "None",
        "bond-miimon": "100",
        "bond-mode": "ActivePassive",
        "bond-primary_reselect": "Failure",
        "bond-slaves": "eth0 eth1",
        "bond-updelay": "200",
        "dns-nameservers": "10.1.1.0, 10.1.1.0",
        "dns-search": "ten.test.company.net., company.net.",
        "family": "inet",
        "gateway": "10.1.1.0",
        "linkSpeed": 10000,
        "macAddress": "c8:1f:66:ee:59:b9",
        "macAddressPermanent": "00:00:00:00:00:00",
        "method": "static",
        "mtu": "9000",
        "netmask": "255.255.240.0",
        "network": "10.1.1.0",
        "physical": {
            "address": "10.1.1.0",
            "macAddress": "c8:1f:66:ee:59:b9",
            "macAddressPermanent": "00:00:00:00:00:00",
            "mtu": "9000",
            "netmask": "255.255.240.0",
            "network": "10.1.1.0",
            "upAndRunning": true
        },
        "routes": [],
        "status": "UpAndRunning",
        "symmetricRouteRules": [
            "ip route add 10.1.1.1/20 dev Bond1G src 10.1.2.2
table Bond1G",
            "ip rule add from 10.1.1.1 table Bond1G",
            "ip route add default via 10.1.1.254"
        ],

```

```
        "upAndRunning": true,  
        "virtualNetworkTag": "0"  
    },  
    "eth0": {  
        "auto": true,  
        "bond-master": "Bond10G",  
        "family": "inet",  
        "linkSpeed": 10000,  
        "macAddress": "c8:1f:66:ee:59:b9",  
        "macAddressPermanent": "c8:1f:66:ee:59:b9",  
        "method": "bond",  
        "physical": {  
            "address": "0.0.0.0",  
            "macAddress": "c8:1f:66:ee:59:b9",  
            "macAddressPermanent": "c8:1f:66:ee:59:b9",  
            "netmask": "N/A",  
            "network": "N/A",  
            "upAndRunning": true  
        },  
        "status": "UpAndRunning",  
        "upAndRunning": true  
    },  
    "lo": {  
        "auto": true,  
        "family": "inet",  
        "linkSpeed": 0,  
        "macAddress": "00:00:00:00:00:00",  
        "macAddressPermanent": "00:00:00:00:00:00",  
        "method": "loopback",  
        "physical": {  
            "address": "0.0.0.0",  
            "macAddress": "00:00:00:00:00:00",  
            "macAddressPermanent": "00:00:00:00:00:00",  
            "netmask": "N/A",  
            "network": "N/A",  
            "upAndRunning": true  
        },  
        "status": "UpAndRunning",  
        "upAndRunning": true  
    }  
}  
}  
}
```

GetClusterHardwareInfo

此 `GetClusterHardwareInfo` 方法會傳回類似下列範例的回應。

```
{
  "id": null,
  "result": {
    "clusterHardwareInfo": {
      "drives": {
        "1": {
          "description": "ATA Drive",
          "dev": "8:0",
          "devpath": "/dev/disk/by-id/scsi-SATA_VRFSD3400GNCVMT205121562-
part4",
          "driveSecurityAtMaximum": false,
          "driveSecurityFrozen": true,
          "driveSecurityLocked": false,
          "logicalname": "/dev/sda",
          "product": "VRFSD3400GNCVMTJS1",
          "securityFeatureEnabled": false,
          "securityFeatureSupported": true,
          "serial": "205121562",
          "size": 299988156416,
          "uuid": "febe39ae-4984-edc0-e3a7-3c47608cface",
          "version": "515ABBF0"
        },
        "2": {...
      },
      "3": {...
    },
    "4": {...
  },
  "5": {...
},
"6": {...
},
.
.
.
"44": {...
}
},
"nodes": {
  "1": {
    "core_DMI:0200": {
      "Storage Node
```

```

    "description": "Motherboard",
    "physid": "0",
    "vendor": "SolidFire"
  },
  "fiber:0_PCI:0000:04:00.0": {
    "businfo": "pci@0000:04:00.0",
    "clock": "33000000",
    "description": "Fibre Channel",
    "physid": "0",
    "product": "ISP8324-based 16Gb Fibre Channel to PCI Express
Adapter",
    "vendor": "QLogic Corp.",
    "version": "02",
    "width": "64"
  },
  "Repeat fiber information": {...}
  "Repeat fiber": {...},
  "Repeat fiber": {...},
}
},
"fans": {
  "Fan1A RPM": {
    "baseUnit": "RPM",
    "threshold": 840,
    "value": 4800
  },
  "Fan1B RPM": {...},
  .
  .
  .
  "Fan7B RPM": {...}
},
"fibreChannelPorts": [
  {
    "firmware": "7.04.00 (d0d5)",
    "hbaPort": 1,
    "model": "QLE2672",
    "nPortID": "0x110c36",
    "pciSlot": 3,
    "serial": "BFE1341E09329",
    "speed": "8 Gbit",
    "state": "Online",
    "switchWwn": "20:01:00:2a:6a:a0:25:01",
    "wwnn": "5f:47:ac:c8:82:23:e0:00",
    "wwpn": "5f:47:ac:c0:82:23:e0:02"
  },
}

```

```

    {
      "firmware": "7.04.00 (d0d5)", {...}
      "firmware": "7.04.00 (d0d5)", {...}
      "firmware": "7.04.00 (d0d5)", {...}
    }
  ],
  "hardwareConfig": {
    "BIOS_REVISION": {
      "Passed": true,
      "actual": "1.1",
      "comparator": ">=",
      "expected": "1.0"
    },
    "BIOS_VENDOR": {
      "Passed": true,
      "actual": "SolidFire",
      "comparator": "==",
      "expected": "SolidFire"
    },
    "BIOS_VERSION": {
      "Passed": true,
      "actual": "1.1.2",
      "comparator": ">=",
      "expected": "1.1.2"
    },
    "BMC_FIRMWARE_REVISION": {
      "Passed": true,
      "actual": "1.6",
      "comparator": ">=",
      "expected": "1.6"
    },
    "BMC_IPMI_VERSION": {
      "Passed": true,
      "actual": "2.0",
      "comparator": ">=",
      "expected": "2.0"
    },
    "CHASSIS_TYPE": {
      "Passed": true,
      "actual": "R620",
      "comparator": "==",
      "expected": "R620"
    },
    "CPU_CORES_00": {
      "Passed": true,
      "actual": "6",

```



```
"comparator": "==",
"expected": "6"
},
"CPU_CORES_01": {
  "Passed": true,
  "actual": "6",
  "comparator": "==",
  "expected": "6"
},
"CPU_CORES_ENABLED_00": {
  "Passed": true,
  "actual": "6",
  "comparator": "==",
  "expected": "6"
},
"CPU_CORES_ENABLED_01": {
  "Passed": true,
  "actual": "6",
  "comparator": "==",
  "expected": "6"
},
"CPU_MODEL_00": {
  "Passed": true,
  "actual": "Intel(R) Xeon(R) CPU E5-2640 0 @ 2.50GHz",
  "comparator": "==",
  "expected": "Intel(R) Xeon(R) CPU E5-2640 0 @ 2.50GHz"
},
"CPU_MODEL_01": {
  "Passed": true,
  "actual": "Intel(R) Xeon(R) CPU E5-2640 0 @ 2.50GHz",
  "comparator": "==",
  "expected": "Intel(R) Xeon(R) CPU E5-2640 0 @ 2.50GHz"
},
"CPU_THREADS_00": {
  "Passed": true,
  "actual": "12",
  "comparator": "==",
  "expected": "12"
},
"CPU_THREADS_01": {
  "Passed": true,
  "actual": "12",
  "comparator": "==",
  "expected": "12"
},
"DRIVE_SIZE_BYTES_SDIMM0": {
```

```
"Passed": true,
"actual": "100030242816",
"comparator": ">=",
"expected": "100030242816"
},
"FIBRE_CHANNEL_FIRMWARE_REVISION": {
  "Passed": true,
  "actual": "FW:v7.04.00",
  "comparator": "==",
  "expected": "FW:v7.04.00"
},
"FIBRE_CHANNEL_MODEL": {
  "Passed": true,
  "actual": "QLE2672",
  "comparator": "==",
  "expected": "QLE2672"
},
"IDRAC_VERSION": {
  "Passed": true,
  "actual": "1.06.06",
  "comparator": ">=",
  "expected": "1.06.06"
},
"LIFECYCLE_VERSION": {
  "Passed": true,
  "actual": "1.0.0.5747",
  "comparator": ">=",
  "expected": "1.0.0.5747"
},
"MEMORY_GB": {
  "Passed": true,
  "actual": "32",
  "comparator": ">=",
  "expected": "32"
},
"MEMORY_MHZ_00": {
  "Passed": true,
  "actual": "1333",
  "comparator": ">=",
  "expected": "1333"
},
"MEMORY_MHZ_01": {
  "Passed": true,
  "actual": "1333",
  "comparator": ">=",
  "expected": "1333"
}
```

```

    },
    "MEMORY_MHZ_02": {
      "Passed": true,
      "actual": "1333",
      "comparator": ">=",
      "expected": "1333"
    },
    "MEMORY_MHZ_03": {
      "Passed": true,
      "actual": "1333",
      "comparator": ">=",
      "expected": "1333"
    },
    "NETWORK_DRIVER_ETH0": {
      "Passed": true,
      "actual": "bnx2x",
      "comparator": "=~",
      "expected": "^bnx2x$"
    },
    {
      "NETWORK_DRIVER_ETH1":, {...
    },
      "NETWORK_DRIVER_ETH2":, {...
    },
      "NETWORK_DRIVER_ETH3":, {...
    },
      "NETWORK_DRIVER_ETH4":, {...
    },
      "NETWORK_DRIVER_ETH5":, {...
    },
    "NODE_TYPE": {
      "Passed": true,
      "actual": "FC0025",
      "comparator": "==",
      "expected": "FC0025"
    },
    "NUM_CPU": {
      "Passed": true,
      "actual": "2",
      "comparator": "==",
      "expected": "2"
    },
    "NUM_DRIVES": {
      "Passed": true,
      "actual": "0",
      "comparator": "==",

```

```

    "expected": "0"
  },
  "NUM_DRIVES_INTERNAL": {
    "Passed": true,
    "actual": "1",
    "comparator": "==",
    "expected": "1"
  },
  "NUM_FIBRE_CHANNEL_PORTS": {
    "Passed": true,
    "actual": "4",
    "comparator": "==",
    "expected": "4"
  },
  "NVRAM_VENDOR": {
    "Passed": true,
    "actual": "",
    "comparator": "==",
    "expected": ""
  },
  "ROOT_DRIVE_REMOVABLE": {
    "Passed": true,
    "actual": "false",
    "comparator": "==",
    "expected": "false"
  }
},
"memory": {
  "firmware_": {
    "capacity": "8323072",
    "date": "03/08/2012",
    "description": "BIOS",
    "physid": "0",
    "size": "65536",
    "vendor": "SolidFire",
    "version": "1.1.2"
  },
  "memory_DMI:1000": {
    "description": "System Memory",
    "physid": "1000",
    "size": "34359738368",
    "slot": "System board or motherboard"
  }
},
"network": {
  "network:0_PCI:0000:01:00.0": {

```

```

    "businfo": "pci@0000:01:00.0",
    "capacity": "1000000000",
    "clock": "33000000",
    "description": "Ethernet interface",
    "logicalname": "eth0",
    "physid": "0",
    "product": "NetXtreme II BCM57800 1/10 Gigabit Ethernet",
    "serial": "c8:1f:66:e0:97:2a",
    "vendor": "Broadcom Corporation",
    "version": "10",
    "width": "64"
  },
  "network:0_PCI:0000:41:00.0": {...
},
  "network:1_PCI:0000:01:00.1": {...
},
  "network:1_PCI:0000:41:00.1": {...
},
  "network:2_PCI:0000:01:00.2": {...
},
  "network:3_PCI:0000:01:00.3": {...
}
},
"networkInterfaces": {
  "Bond10G": {
    "isConfigured": true,
    "isUp": true
  },
  "Bond1G": {
    "isConfigured": true,
    "isUp": true
  },
  "eth0": {
    "isConfigured": true,
    "isUp": true
  },
  "eth1": {...
},
  "eth2": {...
},
  "eth3": {...
},
  "eth4": {...
},
  "eth5": {...
}

```

```

},
"nvram": {
  "errors": {
    "numOfErrorLogEntries": "0"
  },
  "extended": {
    "dialogVersion": "4",
    "event": [
      {
        "name": "flushToFlash",
        "time": "2015-08-06 01:19:39",
        "value": "0"
      },
      {
        "name": "flushToFlash",
        "time": "2015-08-06 01:26:44",
        "value": "0"
      },
      { ... next "flushToFlash"
    },
    { ... next "flushToFlash"
    },
    { ... next "flushToFlash"
    },
    { ... next "flushToFlash"
    },
    { ... next "flushToFlash"
    },
    { ... next "flushToFlash"
    },
    { ... next "flushToFlash"
    },
    { ... next "flushToFlash"
    }
  ],
  "eventOccurrences": [
    {
      "count": "740",
      "name": "flushToFlash"
    },
    {
      "count": "1",
      "name": "excessiveCurrent"
    }
  ],
  "initialCapacitance": "6.630 F",
  "initialEsr": "0.101 Ohm",
  "measurement": [

```

```

{
  "level_0": " 0",
  "level_1": " 3969",
  "level_2": " 4631",
  "level_3": " 12875097",
  "level_4": " 1789948",
  "level_5": " 0",
  "level_6": " 0",
  "level_7": " 0",
  "level_8": " 0",
  "level_9": " 0",
  "name": "enterpriseFlashControllerTemperature",
  "recent": "66 C"
},
{
  "level_0": " 0",
  "level_1": " 58",
  "level_2": " 1479058",
  "level_3": " 12885356",
  "level_4": " 308293",
  "level_5": " 851",
  "level_6": " 29",
  "level_7": " 0",
  "level_8": " 0",
  "level_9": " 0",
  "name": "capacitor1And2Temperature",
  "recent": "30.69 C"
},
{...next temp measurement
},
{...next temp measurement
},
{...next temp measurement
},
}
  "name": "voltageOfCapacitor1",
  "recent": "2.198 V"
},
{
  "name": "voltageOfCapacitor2",
  "recent": "2.181 V"
},
{
  "name": "voltageOfCapacitor3",
  "recent": "2.189 V"
},

```

```
{
  "name": "voltageOfCapacitor4",
  "recent": "2.195 V"
},
{
  "level_0": " 4442034",
  "level_1": " 6800018",
  "level_2": " 2846869",
  "level_3": " 119140",
  "level_4": " 29506",
  "level_5": " 428935",
  "level_6": " 7143",
  "level_7": " 0",
  "level_8": " 0",
  "level_9": " 0",
  "name": "capacitorPackVoltage",
  "recent": "8.763 V"
},
{
  "level_0": " 0",
  "level_1": " 0",
  "level_2": " 0",
  "level_3": " 0",
  "level_4": " 189",
  "level_5": " 17",
  "level_6": " 36",
  "level_7": " 0",
  "level_8": " 2",
  "level_9": " 490",
  "name": "capacitorPackVoltageAtEndOfFlushToFlash",
  "recent": "4.636 V"
},
{
  "name": "currentDerivedFromV3V4",
  "recent": "-0.004 A"
},
{
  "level_0": " 230",
  "level_1": " 482",
  "level_2": " 22",
  "level_3": " 0",
  "level_4": " 0",
  "level_5": " 0",
  "level_6": " 0",
  "level_7": " 0",
  "level_8": " 0",
```



```

    "level_9": " 0",
    "name": "derivedEnergy",
    "recent": "172 Joules"
  },
  {...next voltage measurement
  },
  {...next voltage measurement
  },
  {...next voltage measurement
  },
],
"smartCounters": [
  {
    "name": "numberOf512ByteBlocksReadFromDdr",
    "value": "10530088847"
  },
  {
    "name": "numberOf512ByteBlocksWrittenToDdr",
    "value": "1752499453837"
  },
  {
    "name": "numberOfHostReadCommands",
    "value": "235317769"
  },
  {...next smartCounters measurement
  },
  {...next smartCounters measurement
  },
  {...next smartCounters measurement
  },
],
"snapshotTime": "2015-08-20 16:30:01"
},
"firmware": {
  "activeSlotNumber": "2",
  "slot1Version": "1e5817bc",
  "slot2Version": "5fb7565c",
  "slot3Version": "1e5817bc",
  "slot4Version": "1e5817bc"
},
"identify": {
  "firmwareVersion": "5fb7565c on slot 2",
  "hardwareRevision": "B04",
  "modelName": "RMS-200",
  "serialNumber": "0000862"
},

```

```

"smart": {
  "availableSpace": "0%",
  "availableSpaceThreshold": "0%",
  "controllerBusyTimeMinutes": "6793",
  "criticalErrorVector": "0x0",
  "mediaErrors": "0",
  "numberOf512ByteBlocksRead": "10530088847",
  "numberOf512ByteBlocksWritten": "1752499439063",
  "numberOfErrorInfoLogs": "1",
  "numberOfHostReadCommands": "235317769",
  "numberOfHostWriteCommands": "126030374065",
  "numberOfPowerCycles": "709",
  "powerOnHours": "11223",
  "temperature": "324 Kelvin",
  "unsafeShutdowns": "357"
},
"origin": null,
"platform": {
  "chassisType": "R620",
  "cpuModel": "Intel(R) Xeon(R) CPU E5-2640 0 @ 2.50GHz",
  "nodeMemoryGB": 32,
  "nodeType": "FC0025"
},
"powerSupplies": {
  "PS1 status": {
    "powerSupplyFailureDetected": false,
    "powerSupplyHasAC": true,
    "powerSupplyPredictiveFailureDetected": false,
    "powerSupplyPresent": true,
    "powerSupplyPresentLastCheck": true
  },
  "PS2 status": {
    "powerSupplyFailureDetected": false,
    "powerSupplyHasAC": true,
    "powerSupplyPredictiveFailureDetected": false,
    "powerSupplyPresent": true,
    "powerSupplyPresentLastCheck": true
  }
},
"storage": {
  "storage_PCI:0000:00:1f.2": {
    "businfo": "pci@0000:00:1f.2",
    "clock": "66000000",
    "description": "SATA controller",
    "physid": "1f.2",

```

```

    "product": "C600/X79 series chipset 6-Port SATA AHCI Controller",
    "vendor": "Intel Corporation",
    "version": "05",
    "width": "32"
  }
},
"system": {
  "ubuntu_DMI:0100": {
    "description": "Rack Mount Chassis",
    "product": "SFx010 ()",
    "serial": "HTW1DZ1",
    "vendor": "SolidFire",
    "width": "64"
  }
},
"temperatures": {
  "Exhaust Temp": {
    "baseUnit": "C",
    "threshold": 70,
    "value": 41
  },
  "Inlet Temp": {
    "baseUnit": "C",
    "threshold": 42,
    "value": 18
  }
},
"uuid": "4C4C4544-0054-5710-8031-C8C04F445A31"
},
"2": {...},           Storage Node "2"
"3": {...},           Storage Node "3"
"4": {...},           Storage Node "4"
"5": {                 Fibre Channel Node
  }
}
}
}

```

GetLidpInfo

此 `GetLidpInfo` 方法會傳回類似下列範例的回應。

```

{
  "id": null,
  "result": {

```

```
"lldpInfo": {
  "lldpChassis": {
    "local-chassis": [
      {
        "chassis": [
          {
            "capability": [
              {
                "enabled": false,
                "type": "Bridge"
              },
              {
                "enabled": false,
                "type": "Router"
              },
              {
                "enabled": false,
                "type": "Wlan"
              },
              {
                "enabled": true,
                "type": "Station"
              }
            ],
            "descr": [
              {
                "value": "Element OS 11.0"
              }
            ],
            "id": [
              {
                "type": "mac",
                "value": "08:00:27:3c:0a:f4"
              }
            ],
            "mgmt-ip": [
              {
                "value": "10.0.2.15"
              },
              {
                "value": "fe80::a00:27ff:fe3c:af4"
              }
            ],
            "name": [
              {
                "value": "SF-93FF"
              }
            ]
          }
        ]
      }
    ]
  }
}
```

```

    }
  ]
}
],
"lldp-med": [
  {
    "capability": [
      {
        "available": true,
        "type": "Capabilities"
      },
      {
        "available": true,
        "type": "Policy"
      },
      {
        "available": true,
        "type": "Location"
      },
      {
        "available": true,
        "type": "MDI/PSE"
      },
      {
        "available": true,
        "type": "MDI/PD"
      },
      {
        "available": true,
        "type": "Inventory"
      }
    ],
    "device-type": [
      {
        "value": "Generic Endpoint (Class I)"
      }
    ],
    "inventory": [
      {
        "firmware": [
          {
            "value": "VirtualBox"
          }
        ],
        "hardware": [
          {

```

```

        "value": "1.2"
      }
    ],
    "manufacturer": [
      {
        "value": "innotek GmbH"
      }
    ],
    "model": [
      {
        "value": "VirtualBox"
      }
    ],
    "serial": [
      {
        "value": "0"
      }
    ],
    "software": [
      {
        "value": "4.14.27-solidfire2"
      }
    ]
  }
]
}
]
}
],
"lldpInterfaces": {
  "lldp": [
    {
      "interface": [
        {
          "age": "0 day, 00:01:04",
          "chassis": [
            {
              "capability": [
                {
                  "enabled": false,
                  "type": "Bridge"
                },
                {
                  "enabled": false,
                  "type": "Router"
                }
              ]
            }
          ]
        }
      ]
    }
  ]
}

```

```

    },
    {
      "enabled": false,
      "type": "Wlan"
    },
    {
      "enabled": true,
      "type": "Station"
    }
  ],
  "descr": [
    {
      "value": "Element OS 11.0"
    }
  ],
  "id": [
    {
      "type": "mac",
      "value": "08:00:27:3c:0a:f4"
    }
  ],
  "mgmt-ip": [
    {
      "value": "10.0.2.15"
    },
    {
      "value": "fe80::a00:27ff:fe3c:af4"
    }
  ],
  "name": [
    {
      "value": "SF-93FF"
    }
  ]
}
],
"lldp-med": [
  {
    "capability": [
      {
        "available": true,
        "type": "Capabilities"
      },
      {
        "available": true,
        "type": "Policy"
      }
    ]
  }
]

```

```

    },
    {
      "available": true,
      "type": "Location"
    },
    {
      "available": true,
      "type": "MDI/PSE"
    },
    {
      "available": true,
      "type": "MDI/PD"
    },
    {
      "available": true,
      "type": "Inventory"
    }
  ],
  "device-type": [
    {
      "value": "Generic Endpoint (Class I)"
    }
  ],
  "inventory": [
    {
      "firmware": [
        {
          "value": "VirtualBox"
        }
      ],
      "hardware": [
        {
          "value": "1.2"
        }
      ],
      "manufacturer": [
        {
          "value": "innotek GmbH"
        }
      ],
      "model": [
        {
          "value": "VirtualBox"
        }
      ],
      "serial": [

```



```

        {
            "value": "0"
        }
    ],
    "software": [
        {
            "value": "4.14.27-solidfire2"
        }
    ]
}
]
}
],
"name": "eth0",
"port": [
    {
        "aggregation": [
            {
                "value": "7"
            }
        ],
        "auto-negotiation": [
            {
                "advertised": [
                    {
                        "fd": true,
                        "hd": true,
                        "type": "10Base-T"
                    },
                    {
                        "fd": true,
                        "hd": true,
                        "type": "100Base-TX"
                    },
                    {
                        "fd": true,
                        "hd": false,
                        "type": "1000Base-T"
                    }
                ],
                "current": [
                    {
                        "value": "full duplex mode"
                    }
                ],
                "enabled": true,

```

```

        "supported": true
      }
    ],
    "descr": [
      {
        "value": "eth0"
      }
    ],
    "id": [
      {
        "type": "mac",
        "value": "08:00:27:3c:0a:f4"
      }
    ]
  }
],
"ttl": [
  {
    "ttl": "120"
  }
],
"via": "unknown"
},
{
  "age": "17722 days, 17:14:28",
  "chassis": [
    {
      "capability": [
        {
          "enabled": false,
          "type": "Bridge"
        },
        {
          "enabled": false,
          "type": "Router"
        },
        {
          "enabled": false,
          "type": "Wlan"
        },
        {
          "enabled": true,
          "type": "Station"
        }
      ]
    },
    {
      "descr": [

```

```
    {
      "value": "Element OS 11.0"
    }
  ],
  "id": [
    {
      "type": "mac",
      "value": "08:00:27:3c:0a:f4"
    }
  ],
  "mgmt-ip": [
    {
      "value": "10.0.2.15"
    },
    {
      "value": "fe80::a00:27ff:fe3c:af4"
    }
  ],
  "name": [
    {
      "value": "SF-93FF"
    }
  ]
}
],
"lldp-med": [
  {
    "capability": [
      {
        "available": true,
        "type": "Capabilities"
      },
      {
        "available": true,
        "type": "Policy"
      },
      {
        "available": true,
        "type": "Location"
      },
      {
        "available": true,
        "type": "MDI/PSE"
      },
      {
        "available": true,
```

```
    "type": "MDI/PD"
  },
  {
    "available": true,
    "type": "Inventory"
  }
],
"device-type": [
  {
    "value": "Generic Endpoint (Class I)"
  }
],
"inventory": [
  {
    "firmware": [
      {
        "value": "VirtualBox"
      }
    ],
    "hardware": [
      {
        "value": "1.2"
      }
    ],
    "manufacturer": [
      {
        "value": "innotek GmbH"
      }
    ],
    "model": [
      {
        "value": "VirtualBox"
      }
    ],
    "serial": [
      {
        "value": "0"
      }
    ],
    "software": [
      {
        "value": "4.14.27-solidfire2"
      }
    ]
  }
]
```

```

    }
  ],
  "name": "eth1",
  "port": [
    {
      "aggregation": [
        {
          "value": "7"
        }
      ],
      "auto-negotiation": [
        {
          "advertised": [
            {
              "fd": true,
              "hd": true,
              "type": "10Base-T"
            },
            {
              "fd": true,
              "hd": true,
              "type": "100Base-TX"
            },
            {
              "fd": true,
              "hd": false,
              "type": "1000Base-T"
            }
          ],
          "current": [
            {
              "value": "unknown"
            }
          ],
          "enabled": true,
          "supported": true
        }
      ],
      "descr": [
        {
          "value": "eth1"
        }
      ],
      "id": [
        {
          "type": "mac",

```

```
        "value": "08:00:27:36:79:78"
      }
    ]
  },
  "ttl": [
    {
      "ttl": "120"
    }
  ],
  "via": "unknown"
},
{
  "age": "0 day, 00:01:01",
  "chassis": [
    {
      "capability": [
        {
          "enabled": false,
          "type": "Bridge"
        },
        {
          "enabled": false,
          "type": "Router"
        },
        {
          "enabled": false,
          "type": "Wlan"
        },
        {
          "enabled": true,
          "type": "Station"
        }
      ],
      "descr": [
        {
          "value": "Element OS 11.0"
        }
      ],
      "id": [
        {
          "type": "mac",
          "value": "08:00:27:3c:0a:f4"
        }
      ],
      "mgmt-ip": [
```

```

        {
            "value": "10.0.2.15"
        },
        {
            "value": "fe80::a00:27ff:fe3c:af4"
        }
    ],
    "name": [
        {
            "value": "SF-93FF"
        }
    ]
}
],
"lldp-med": [
    {
        "capability": [
            {
                "available": true,
                "type": "Capabilities"
            },
            {
                "available": true,
                "type": "Policy"
            },
            {
                "available": true,
                "type": "Location"
            },
            {
                "available": true,
                "type": "MDI/PSE"
            },
            {
                "available": true,
                "type": "MDI/PD"
            },
            {
                "available": true,
                "type": "Inventory"
            }
        ]
    },
    "device-type": [
        {
            "value": "Generic Endpoint (Class I)"
        }
    ]
}

```

```

    ],
    "inventory": [
      {
        "firmware": [
          {
            "value": "VirtualBox"
          }
        ],
        "hardware": [
          {
            "value": "1.2"
          }
        ],
        "manufacturer": [
          {
            "value": "innotek GmbH"
          }
        ],
        "model": [
          {
            "value": "VirtualBox"
          }
        ],
        "serial": [
          {
            "value": "0"
          }
        ],
        "software": [
          {
            "value": "4.14.27-solidfire2"
          }
        ]
      }
    ]
  },
  "name": "eth2",
  "port": [
    {
      "aggregation": [
        {
          "value": "6"
        }
      ],
      "auto-negotiation": [

```



```

    {
      "advertised": [
        {
          "fd": true,
          "hd": true,
          "type": "10Base-T"
        },
        {
          "fd": true,
          "hd": true,
          "type": "100Base-TX"
        },
        {
          "fd": true,
          "hd": false,
          "type": "1000Base-T"
        }
      ],
      "current": [
        {
          "value": "full duplex mode"
        }
      ],
      "enabled": true,
      "supported": true
    }
  ],
  "descr": [
    {
      "value": "eth2"
    }
  ],
  "id": [
    {
      "type": "mac",
      "value": "08:00:27:fc:f0:a9"
    }
  ]
}
],
"ttl": [
  {
    "ttl": "120"
  }
],
"via": "LLDP"

```

```
},
{
  "age": "0 day, 00:01:01",
  "chassis": [
    {
      "capability": [
        {
          "enabled": false,
          "type": "Bridge"
        },
        {
          "enabled": false,
          "type": "Router"
        },
        {
          "enabled": false,
          "type": "Wlan"
        },
        {
          "enabled": true,
          "type": "Station"
        }
      ],
      "descr": [
        {
          "value": "Element OS 11.0"
        }
      ],
      "id": [
        {
          "type": "mac",
          "value": "08:00:27:3c:0a:f4"
        }
      ],
      "mgmt-ip": [
        {
          "value": "10.0.2.15"
        },
        {
          "value": "fe80::a00:27ff:fe3c:af4"
        }
      ],
      "name": [
        {
          "value": "SF-93FF"
        }
      ]
    }
  ]
}
```

```

    ]
  }
],
"lldp-med": [
  {
    "capability": [
      {
        "available": true,
        "type": "Capabilities"
      },
      {
        "available": true,
        "type": "Policy"
      },
      {
        "available": true,
        "type": "Location"
      },
      {
        "available": true,
        "type": "MDI/PSE"
      },
      {
        "available": true,
        "type": "MDI/PD"
      },
      {
        "available": true,
        "type": "Inventory"
      }
    ],
    "device-type": [
      {
        "value": "Generic Endpoint (Class I)"
      }
    ],
    "inventory": [
      {
        "firmware": [
          {
            "value": "VirtualBox"
          }
        ],
        "hardware": [
          {
            "value": "1.2"
          }
        ]
      }
    ]
  }
]

```

```
    }
    ],
    "manufacturer": [
      {
        "value": "innotek GmbH"
      }
    ],
    "model": [
      {
        "value": "VirtualBox"
      }
    ],
    "serial": [
      {
        "value": "0"
      }
    ],
    "software": [
      {
        "value": "4.14.27-solidfire2"
      }
    ]
  ]
}
],
"name": "eth3",
"port": [
  {
    "aggregation": [
      {
        "value": "6"
      }
    ],
    "auto-negotiation": [
      {
        "advertised": [
          {
            "fd": true,
            "hd": true,
            "type": "10Base-T"
          },
          {
            "fd": true,
            "hd": true,
            "type": "100Base-TX"
          }
        ]
      }
    ]
  }
]
```

```

        },
        {
            "fd": true,
            "hd": false,
            "type": "1000Base-T"
        }
    ],
    "current": [
        {
            "value": "full duplex mode"
        }
    ],
    "enabled": true,
    "supported": true
}
],
"descr": [
    {
        "value": "eth3"
    }
],
"id": [
    {
        "type": "mac",
        "value": "08:00:27:2c:e4:f8"
    }
]
}
],
"ttl": [
    {
        "ttl": "120"
    }
],
"via": "LLDP"
}
]
}
],
"lldpNeighbors": {
    "lldp": [
        {
            "interface": [
                {
                    "age": "0 day, 00:04:34",

```

```

"chassis": [
  {
    "capability": [
      {
        "enabled": true,
        "type": "Bridge"
      },
      {
        "enabled": true,
        "type": "Router"
      },
      {
        "enabled": true,
        "type": "Wlan"
      },
      {
        "enabled": false,
        "type": "Station"
      }
    ],
    "descr": [
      {
        "value": "x86_64"
      }
    ],
    "id": [
      {
        "type": "mac",
        "value": "50:7b:9d:2b:36:84"
      }
    ],
    "mgmt-ip": [
      {
        "value": "192.168.100.1"
      },
      {
        "value": "fe80::a58e:843:952e:d8eb"
      }
    ],
    "name": [
      {
        "value": "ConventionalWisdom.wlan.netapp.com"
      }
    ]
  }
],

```

```
"name": "eth2",
"port": [
  {
    "auto-negotiation": [
      {
        "current": [
          {
            "value": "full duplex mode"
          }
        ],
        "enabled": false,
        "supported": false
      }
    ],
    "descr": [
      {
        "value": "vboxnet1"
      }
    ],
    "id": [
      {
        "type": "mac",
        "value": "0a:00:27:00:00:01"
      }
    ],
    "ttl": [
      {
        "value": "120"
      }
    ]
  }
],
"rid": "2",
"via": "LLDP"
},
{
  "age": "0 day, 00:01:01",
  "chassis": [
    {
      "capability": [
        {
          "enabled": false,
          "type": "Bridge"
        }
      ],
      {
        "enabled": false,
```

```

        "type": "Router"
    },
    {
        "enabled": false,
        "type": "Wlan"
    },
    {
        "enabled": true,
        "type": "Station"
    }
],
"descr": [
    {
        "value": "Element OS 11.0"
    }
],
"id": [
    {
        "type": "mac",
        "value": "08:00:27:3c:0a:f4"
    }
],
"mgmt-ip": [
    {
        "value": "10.0.2.15"
    },
    {
        "value": "fe80::a00:27ff:fe3c:af4"
    }
],
"name": [
    {
        "value": "SF-93FF"
    }
]
}
],
"lldp-med": [
    {
        "capability": [
            {
                "available": true,
                "type": "Capabilities"
            },
            {
                "available": true,

```



```

        "type": "Policy"
    },
    {
        "available": true,
        "type": "Location"
    },
    {
        "available": true,
        "type": "MDI/PSE"
    },
    {
        "available": true,
        "type": "MDI/PD"
    },
    {
        "available": true,
        "type": "Inventory"
    }
],
"device-type": [
    {
        "value": "Generic Endpoint (Class I)"
    }
],
"inventory": [
    {
        "firmware": [
            {
                "value": "VirtualBox"
            }
        ],
        "hardware": [
            {
                "value": "1.2"
            }
        ],
        "manufacturer": [
            {
                "value": "innotek GmbH"
            }
        ],
        "model": [
            {
                "value": "VirtualBox"
            }
        ]
    }
],

```

```
    "serial": [
      {
        "value": "0"
      }
    ],
    "software": [
      {
        "value": "4.14.27-solidfire2"
      }
    ]
  }
]
}
},
"name": "eth2",
"port": [
  {
    "aggregation": [
      {
        "value": "6"
      }
    ],
    "auto-negotiation": [
      {
        "advertised": [
          {
            "fd": true,
            "hd": true,
            "type": "10Base-T"
          },
          {
            "fd": true,
            "hd": true,
            "type": "100Base-TX"
          },
          {
            "fd": true,
            "hd": false,
            "type": "1000Base-T"
          }
        ],
        "current": [
          {
            "value": "full duplex mode"
          }
        ]
      }
    ],

```

```

        "enabled": true,
        "supported": true
    }
],
"descr": [
    {
        "value": "eth3"
    }
],
"id": [
    {
        "type": "mac",
        "value": "08:00:27:2c:e4:f8"
    }
],
"ttl": [
    {
        "value": "120"
    }
]
}
],
"rid": "1",
"via": "LLDP"
},
{
    "age": "0 day, 00:04:34",
    "chassis": [
        {
            "capability": [
                {
                    "enabled": true,
                    "type": "Bridge"
                },
                {
                    "enabled": true,
                    "type": "Router"
                },
                {
                    "enabled": true,
                    "type": "Wlan"
                },
                {
                    "enabled": false,
                    "type": "Station"
                }
            ]
        }
    ]
}

```

```

    ],
    "descr": [
      {
        "value": "x86_64"
      }
    ],
    "id": [
      {
        "type": "mac",
        "value": "50:7b:9d:2b:36:84"
      }
    ],
    "mgmt-ip": [
      {
        "value": "192.168.100.1"
      },
      {
        "value": "fe80::a58e:843:952e:d8eb"
      }
    ],
    "name": [
      {
        "value": ""
      }
    ]
  }
],
"name": "eth3",
"port": [
  {
    "auto-negotiation": [
      {
        "current": [
          {
            "value": "full duplex mode"
          }
        ],
        "enabled": false,
        "supported": false
      }
    ],
    "descr": [
      {
        "value": "vboxnet1"
      }
    ]
  },

```

```

        "id": [
          {
            "type": "mac",
            "value": "0a:00:27:00:00:01"
          }
        ],
        "ttl": [
          {
            "value": "120"
          }
        ]
      }
    ],
    "rid": "2",
    "via": "LLDP"
  },
  {
    "age": "0 day, 00:01:01",
    "chassis": [
      {
        "capability": [
          {
            "enabled": false,
            "type": "Bridge"
          },
          {
            "enabled": false,
            "type": "Router"
          },
          {
            "enabled": false,
            "type": "Wlan"
          },
          {
            "enabled": true,
            "type": "Station"
          }
        ]
      },
      {
        "descr": [
          {
            "value": "Element OS 11.0"
          }
        ]
      },
      {
        "id": [
          {
            "type": "mac",

```

```
        "value": "08:00:27:3c:0a:f4"
      }
    ],
    "mgmt-ip": [
      {
        "value": "10.0.2.15"
      },
      {
        "value": "fe80::a00:27ff:fe3c:af4"
      }
    ],
    "name": [
      {
        "value": "SF-93FF"
      }
    ]
  }
],
"lldp-med": [
  {
    "capability": [
      {
        "available": true,
        "type": "Capabilities"
      },
      {
        "available": true,
        "type": "Policy"
      },
      {
        "available": true,
        "type": "Location"
      },
      {
        "available": true,
        "type": "MDI/PSE"
      },
      {
        "available": true,
        "type": "MDI/PD"
      },
      {
        "available": true,
        "type": "Inventory"
      }
    ]
  },
]
```

```

    "device-type": [
      {
        "value": "Generic Endpoint (Class I)"
      }
    ],
    "inventory": [
      {
        "firmware": [
          {
            "value": "VirtualBox"
          }
        ],
        "hardware": [
          {
            "value": "1.2"
          }
        ],
        "manufacturer": [
          {
            "value": "innotek GmbH"
          }
        ],
        "model": [
          {
            "value": "VirtualBox"
          }
        ],
        "serial": [
          {
            "value": "0"
          }
        ],
        "software": [
          {
            "value": "4.14.27-solidfire2"
          }
        ]
      }
    ]
  },
  "name": "eth3",
  "port": [
    {
      "aggregation": [
        {

```

```

        "value": "6"
    }
],
"auto-negotiation": [
    {
        "advertised": [
            {
                "fd": true,
                "hd": true,
                "type": "10Base-T"
            },
            {
                "fd": true,
                "hd": true,
                "type": "100Base-TX"
            },
            {
                "fd": true,
                "hd": false,
                "type": "1000Base-T"
            }
        ],
        "current": [
            {
                "value": "1000BaseTFD"
            }
        ],
        "enabled": true,
        "supported": true
    }
],
"descr": [
    {
        "value": "eth2"
    }
],
"id": [
    {
        "type": "mac",
        "value": "08:00:27:fc:f0:a9"
    }
],
"ttl": [
    {
        "value": "120"
    }
]

```



```
        ]
      }
    ],
    "rid": "1",
    "via": "LLDP"
  }
]
}
}
```

GetNetwork組態

此 `GetNetworkConfig` 方法會傳回類似下列範例的回應。

```
{
  "id": 1,
  "result": {
    "network": {
      "Bond10G": {
        "#default": false,
        "address": "10.1.1.0",
        "auto": true,
        "bond-downdelay": "0",
        "bond-fail_over_mac": "None",
        "bond-miimon": "100",
        "bond-mode": "ActivePassive",
        "bond-primary_reselect": "Failure",
        "bond-slaves": "eth0 eth1",
        "bond-updelay": "200",
        "dns-nameservers": "10.1.1.0, 10.1.1.0",
        "dns-search": "ten.test.company.net., company.net.",
        "family": "inet",
        "gateway": "10.1.1.0",
        "linkSpeed": 10000,
        "macAddress": "c8:1f:66:ee:59:b9",
        "macAddressPermanent": "00:00:00:00:00:00",
        "method": "static",
        "mtu": "9000",
        "netmask": "255.255.240.0",
        "network": "10.1.1.0",

```

```

    "physical": {
      "address": "10.1.1.0",
      "macAddress": "c8:1f:66:ee:59:b9",
      "macAddressPermanent": "00:00:00:00:00:00",
      "mtu": "9000",
      "netmask": "255.255.240.0",
      "network": "10.1.1.0",
      "upAndRunning": true
    },
    "routes": [],
    "status": "UpAndRunning",
    "symmetricRouteRules": [
      "ip route add 10.1.1.1/20 dev Bond1G src 10.1.1.2
table Bond1G",
      "ip rule add from 10.1.1.1 table Bond1G",
      "ip route add default via 10.1.1.254"
    ],
    "upAndRunning": true,
    "virtualNetworkTag": "0"
  },
  "Bond1G": {
    "#default": true,
    "address": "10.1.1.0",
    "addressV6": "",
    "auto": true,
    "bond-downdelay": "0",
    "bond-fail_over_mac": "None",
    "bond-miimon": "100",
    "bond-mode": "ActivePassive",
    "bond-primary_reselect": "Failure",
    "bond-slaves": "eth2 eth3",
    "bond-updelay": "200",
    "dns-nameservers": "10.1.1.0, 10.1.1.0",
    "dns-search": "ten.test.company.net., company.net.",
    "family": "inet",
    "gateway": "10.1.1.254",
    "gatewayV6": "",
    "linkSpeed": 1000,
    "macAddress": "c8:1f:66:ee:59:bd",
    "macAddressPermanent": "00:00:00:00:00:00",
    "method": "static",
    "mtu": "1500",
    "netmask": "255.255.240.0",
    "network": "10.1.1.0",
    "physical": {
      "address": "10.1.1.0",

```

```

        "macAddress": "c8:1f:66:ee:59:bd",
        "macAddressPermanent": "00:00:00:00:00:00",
        "mtu": "1500",
        "netmask": "255.255.240.0",
        "network": "10.1.1.0",
        "upAndRunning": true
    },
    "routes": [],
    "status": "UpAndRunning",
    "symmetricRouteRules": [
        "ip route add 10.1.1.1/20 dev Bond1G src 10.1.2.2
table Bond1G",
        "ip rule add from 10.1.1.1 table Bond1G",
        "ip route add default via 10.1.1.254"
    ],
    "upAndRunning": true,
    "virtualNetworkTag": "0"
},
"eth0": {
    "auto": true,
    "bond-master": "Bond10G",
    "family": "inet",
    "linkSpeed": 10000,
    "macAddress": "c8:1f:66:ee:59:b9",
    "macAddressPermanent": "c8:1f:66:ee:59:b9",
    "method": "bond",
    "physical": {
        "address": "0.0.0.0",
        "macAddress": "c8:1f:66:ee:59:b9",
        "macAddressPermanent": "c8:1f:66:ee:59:b9",
        "netmask": "N/A",
        "network": "N/A",
        "upAndRunning": true
    },
    "status": "UpAndRunning",
    "upAndRunning": true
},
"eth1": {
    "auto": true,
    "bond-master": "Bond10G",
    "family": "inet",
    "linkSpeed": 10000,
    "macAddress": "c8:1f:66:ee:59:b9",
    "macAddressPermanent": "c8:1f:66:ee:59:bb",
    "method": "bond",
    "physical": {

```

```

        "address": "0.0.0.0",
        "macAddress": "c8:1f:66:ee:59:b9",
        "macAddressPermanent": "c8:1f:66:ee:59:bb",
        "netmask": "N/A",
        "network": "N/A",
        "upAndRunning": true
    },
    "status": "UpAndRunning",
    "upAndRunning": true
},
"eth2": {
    "auto": true,
    "bond-master": "Bond1G",
    "family": "inet",
    "linkSpeed": 1000,
    "macAddress": "c8:1f:66:ee:59:bd",
    "macAddressPermanent": "c8:1f:66:ee:59:bd",
    "method": "bond",
    "physical": {
        "address": "0.0.0.0",
        "macAddress": "c8:1f:66:ee:59:bd",
        "macAddressPermanent": "c8:1f:66:ee:59:bd",
        "netmask": "N/A",
        "network": "N/A",
        "upAndRunning": true
    },
    "status": "UpAndRunning",
    "upAndRunning": true
},
"eth3": {
    "auto": true,
    "bond-master": "Bond1G",
    "family": "inet",
    "linkSpeed": 1000,
    "macAddress": "c8:1f:66:ee:59:bd",
    "macAddressPermanent": "c8:1f:66:ee:59:bf",
    "method": "bond",
    "physical": {
        "address": "0.0.0.0",
        "macAddress": "c8:1f:66:ee:59:bd",
        "macAddressPermanent": "c8:1f:66:ee:59:bf",
        "netmask": "N/A",
        "network": "N/A",
        "upAndRunning": true
    },
    "status": "UpAndRunning",

```

```

        "upAndRunning": true
    },
    "lo": {
        "auto": true,
        "family": "inet",
        "linkSpeed": 0,
        "macAddress": "00:00:00:00:00:00",
        "macAddressPermanent": "00:00:00:00:00:00",
        "method": "loopback",
        "physical": {
            "address": "0.0.0.0",
            "macAddress": "00:00:00:00:00:00",
            "macAddressPermanent": "00:00:00:00:00:00",
            "netmask": "N/A",
            "network": "N/A",
            "upAndRunning": true
        },
        "status": "UpAndRunning",
        "upAndRunning": true
    }
}
}
}
}

```

GetNodeHardwareInfo (iSCSI輸出)

`GetNodeHardwareInfo` iSCSI 方法會傳回類似下列範例的回應。

```

{
    "id": 1,
    "result": {
        "nodeHardwareInfo": {
            "bus": {
                "core_DMI:0200": {
                    "description": "Motherboard",
                    "physid": "0",
                    "product": "0H47HH",
                    "serial": "..CN7475141I0271.",
                    "vendor": "SolidFire",
                    "version": "A07"
                }
            },
            "driveHardware": [

```

```

{
  "canonicalName": "sda",
  "connected": true,
  "dev": 2048,
  "devPath": "/dev/slot0",
  "driveEncryptionCapability": "fips",
  "driveType": "Slice",
  "lifeRemainingPercent": 98,
  "lifetimeReadBytes": 0,
  "lifetimeWriteBytes": 14012129342144,
  "name": "scsi-SATA_SAMSUNG_MZ7GE24S1M9NWAG501251",
  "path": "/dev/sda",
  "pathLink": "/dev/slot0",
  "powerOnHours": 15489,
  "product": "SAMSUNG MZ7GE240HMGR-00003",
  "reallocatedSectors": 0,
  "reserveCapacityPercent": 100,
  "scsiCompatId": "scsi-SATA_SAMSUNG_MZ7GE24S1M9NWAG501251",
  "scsiState": "Running",
  "securityAtMaximum": false,
  "securityEnabled": true,
  "securityFrozen": false,
  "securityLocked": false,
  "securitySupported": true,
  "serial": "S1M9NWAG501251",
  "size": 240057409536,
  "slot": 0,
  "uncorrectableErrors": 0,
  "uuid": "789aa05d-e49b-ff4f-f821-f60eed8e43bd",
  "vendor": "Samsung",
  "version": "EXT1303Q"
},
{
  "canonicalName": "sda",
  "connected": true,
  "dev": 2048,
  "devPath": "/dev/slot1",
  "driveEncryptionCapability": "fips",
  "driveType": "Slice",
  "lifeRemainingPercent": 98,
  "lifetimeReadBytes": 0,
  "lifetimeWriteBytes": 14112129567184,
  "name": "scsi-SATA_SAMSUNG_MZ7GE24S1M9NWAG501251",
  "path": "/dev/sda",
  "pathLink": "/dev/slot0",
  "powerOnHours": 15489,

```

```

        "product": "SAMSUNG MZ7GE240HMGR-00003",
        "reallocatedSectors": 0,
        "reserveCapacityPercent": 100,
        "scsiCompatId": "scsi-SATA_SAMSUNG_MZ7GE24S1M9NWAG501251",
        "scsiState": "Running",
        "securityAtMaximum": false,
        "securityEnabled": true,
        "securityFrozen": false,
        "securityLocked": false,
        "securitySupported": true,
        "serial": "S1M9NWAG501252",
        "size": 240057409536,
        "slot": 0,
        "uncorrectableErrors": 0,
        "uuid": "789aa05d-e49b-ff4f-f821-f60eed8e43bd",
        "vendor": "Samsung",
        "version": "EXT1303Q"
    }
}

```

GetNodeHardwareInfo (光纖通道節點的輸出)

`GetNodeHardwareInfo` 光纖通道節點的方法會傳回類似下列範例的回應。

```

{
  "id": null,
  "result": {
    "nodeHardwareInfo": {
      "bus": {
        "core_DMI:0200": {
          "description": "Motherboard",
          "physid": "0",
          "product": "0H47HH",
          "serial": "..CN747513AA0541.",
          "version": "A07"
        },
        "fiber:0_PCI:0000:04:00.0": {
          "businfo": "pci@0000:04:00.0",
          "clock": "33000000",
          "description": "Fibre Channel",
          "physid": "0",
          "product": "ISP8324-based 16Gb Fibre Channel to PCI Express Adapter",
          "vendor": "QLogic Corp.",

```

```

"version": "02",
"width": "64"
},
"fiber:0_PCI:0000:42:00.0": {
"businfo": "pci@0000:42:00.0",
"clock": "33000000",
"description": "Fibre Channel",
"physid": "0",
"product": "ISP8324-based 16Gb Fibre Channel to PCI Express Adapter",
"vendor": "QLogic Corp.",
"version": "02",
"width": "64"
},
"fiber:1_PCI:0000:04:00.1": {
"businfo": "pci@0000:04:00.1",
"clock": "33000000",
"description": "Fibre Channel",
"physid": "0.1",
"product": "ISP8324-based 16Gb Fibre Channel to PCI Express Adapter",
"vendor": "QLogic Corp.",
"version": "02",
"width": "64"
},
"fiber:1_PCI:0000:42:00.1": {
"businfo": "pci@0000:42:00.1",
"clock": "33000000",
"description": "Fibre Channel",
"physid": "0.1",
"product": "ISP8324-based 16Gb Fibre Channel to PCI Express Adapter",
"vendor": "QLogic Corp.",
"version": "02",
"width": "64"
}
},
"fans": {
"Fan1A RPM": {
"baseUnit": "RPM",
"threshold": 840,
"value": 3360
},
"Fan1B RPM": {
"baseUnit": "RPM",
"threshold": 840,
"value": 3120
}
},

```



```
"fibreChannelPorts": [  
  {  
    "firmware": "7.04.00 (d0d5)",  
    "hbaPort": 1,  
    "internalPortID": 2,  
    "model": "QLE2672",  
    "nPortID": "0x060019",  
    "nodeID": 6,  
    "pciSlot": 3,  
    "serial": "BFE1335E04217",  
    "speed": "8 Gbit",  
    "state": "Online",  
    "switchWwn": "20:01:00:2a:6a:9c:71:01",  
    "wwnn": "5f:47:ac:c8:30:26:c9:00",  
    "wwpn": "5f:47:ac:c0:30:26:c9:0a"  
  },  
  {  
    "firmware": "7.04.00 (d0d5)",  
    "hbaPort": 2,  
    "internalPortID": 3,  
    "model": "QLE2672",  
    "nPortID": "0xc70019",  
    "nodeID": 6,  
    "pciSlot": 3,  
    "serial": "BFE1335E04217",  
    "speed": "8 Gbit",  
    "state": "Online",  
    "switchWwn": "20:01:00:2a:6a:98:a3:41",  
    "wwnn": "5f:47:ac:c8:30:26:c9:00",  
    "wwpn": "5f:47:ac:c0:30:26:c9:0b"  
  },  
  {  
    "firmware": "7.04.00 (d0d5)",  
    "hbaPort": 1,  
    "internalPortID": 0,  
    "model": "QLE2672",  
    "nPortID": "0xc70017",  
    "nodeID": 6,  
    "pciSlot": 2,  
    "serial": "BFE1341E09515",  
    "speed": "8 Gbit",  
    "state": "Online",  
    "switchWwn": "20:01:00:2a:6a:98:a3:41",  
    "wwnn": "5f:47:ac:c8:30:26:c9:00",  
    "wwpn": "5f:47:ac:c0:30:26:c9:08"  
  },  
]
```

```

{
  "firmware": "7.04.00 (d0d5)",
  "hbaPort": 2,
  "internalPortID": 1,
  "model": "QLE2672",
  "nPortID": "0x060017",
  "nodeID": 6,
  "pciSlot": 2,
  "serial": "BFE1341E09515",
  "speed": "8 Gbit",
  "state": "Online",
  "switchWwn": "20:01:00:2a:6a:9c:71:01",
  "wwnn": "5f:47:ac:c8:30:26:c9:00",
  "wwpn": "5f:47:ac:c0:30:26:c9:09"
}
],
"memory": {
  "firmware_": {
    "capacity": "8323072",
    "date": "08/29/2013",
    "description": "BIOS",
    "physid": "0",
    "size": "65536",
    "version": "2.0.19"
  },
  "memory_DMI:1000": {
    "description": "System Memory",
    "physid": "1000",
    "size": "34359738368",
    "slot": "System board or motherboard"
  }
},
"network": {
  "network:0_": {
    "description": "Ethernet interface",
    "logicalname": "Bond1G",
    "physid": "1",
    "serial": "c8:1f:66:df:04:da"
  },
  "network:0_PCI:0000:01:00.0": {
    "businfo": "pci@0000:01:00.0",
    "capacity": "1000000000",
    "clock": "33000000",
    "description": "Ethernet interface",
    "logicalname": "eth0",
    "physid": "0",

```

```

"product": "NetXtreme II BCM57800 1/10 Gigabit Ethernet",
"serial": "c8:1f:66:df:04:d6",
"vendor": "Broadcom Corporation",
"version": "10",
"width": "64"
},
"network:0_PCI:0000:41:00.0": {
"businfo": "pci@0000:41:00.0",
"capacity": "1000000000",
"clock": "33000000",
"description": "Ethernet interface",
"logicalname": "eth4",
"physid": "0",
"product": "NetXtreme II BCM57810 10 Gigabit Ethernet",
"serial": "00:0a:f7:41:7a:30",
"vendor": "Broadcom Corporation",
"version": "10",
"width": "64"
},
"network:1_": {
"description": "Ethernet interface",
"logicalname": "Bond10G",
"physid": "2",
"serial": "c8:1f:66:df:04:d6"
},
"network:1_PCI:0000:01:00.1": {
"businfo": "pci@0000:01:00.1",
"capacity": "1000000000",
"clock": "33000000",
"description": "Ethernet interface",
"logicalname": "eth1",
"physid": "0.1",
"product": "NetXtreme II BCM57800 1/10 Gigabit Ethernet",
"serial": "c8:1f:66:df:04:d8",
"vendor": "Broadcom Corporation",
"version": "10",
"width": "64"
},
"network:1_PCI:0000:41:00.1": {
"businfo": "pci@0000:41:00.1",
"capacity": "1000000000",
"clock": "33000000",
"description": "Ethernet interface",
"logicalname": "eth5",
"physid": "0.1",
"product": "NetXtreme II BCM57810 10 Gigabit Ethernet",

```

```
"serial": "00:0a:f7:41:7a:32",
"vendor": "Broadcom Corporation",
"version": "10",
"width": "64"
},
"network:2_PCI:0000:01:00.2": {
"businfo": "pci@0000:01:00.2",
"capacity": "1000000000",
"clock": "330000000",
"description": "Ethernet interface",
"logicalname": "eth2",
"physid": "0.2",
"product": "NetXtreme II BCM57800 1/10 Gigabit Ethernet",
"serial": "c8:1f:66:df:04:da",
"size": "1000000000",
"vendor": "Broadcom Corporation",
"version": "10",
"width": "64"
},
"network:3_PCI:0000:01:00.3": {
"businfo": "pci@0000:01:00.3",
"capacity": "1000000000",
"clock": "330000000",
"description": "Ethernet interface",
"logicalname": "eth3",
"physid": "0.3",
"product": "NetXtreme II BCM57800 1/10 Gigabit Ethernet",
"serial": "c8:1f:66:df:04:dc",
"size": "1000000000",
"vendor": "Broadcom Corporation",
"version": "10",
"width": "64"
}
},
"networkInterfaces": {
"Bond10G": {
"isConfigured": true,
"isUp": true
},
"Bond1G": {
"isConfigured": true,
"isUp": true
},
"eth0": {
"isConfigured": true,
"isUp": true
}
```

```
},
"eth1": {
  "isConfigured": true,
  "isUp": true
},
"eth2": {
  "isConfigured": true,
  "isUp": true
},
"eth3": {
  "isConfigured": true,
  "isUp": true
},
"eth4": {
  "isConfigured": true,
  "isUp": true
},
"eth5": {
  "isConfigured": true,
  "isUp": true
}
},
"platform": {
  "chassisType": "R620",
  "cpuModel": "Intel(R) Xeon(R) CPU E5-2640 0 @ 2.50GHz",
  "nodeMemoryGB": 32,
  "nodeType": "SFFC"
},
"powerSupplies": {
  "PS1 status": {
    "powerSupplyFailureDetected": false,
    "powerSupplyHasAC": true,
    "powerSupplyPredictiveFailureDetected": false,
    "powerSupplyPresent": true
  },
  "PS2 status": {
    "powerSupplyFailureDetected": false,
    "powerSupplyHasAC": true,
    "powerSupplyPredictiveFailureDetected": false,
    "powerSupplyPresent": true
  }
},
"storage": {
  "storage_PCI:0000:00:1f.2": {
    "businfo": "pci@0000:00:1f.2",
    "clock": "66000000",
```

```
"description": "SATA controller",
"physid": "1f.2",
"product": "C600/X79 series chipset 6-Port SATA AHCI Controller",
"vendor": "Intel Corporation",
"version": "05",
"width": "32"
},
"system": {
  "fcv-2_DMI:0100": {
    "description": "Rack Mount Chassis",
    "product": "(SKU=NotProvided;ModelName=)",
    "serial": "HTX1DZ1",
    "width": "64"
  }
},
"temperatures": {
  "Exhaust Temp": {
    "baseUnit": "C",
    "threshold": 70,
    "value": 38
  },
  "Inlet Temp": {
    "baseUnit": "C",
    "threshold": 42,
    "value": 13
  }
},
"uuid": "4C4C4544-004D-5310-8052-C4C04F335431"
}
}
```

GetNvramInfo

此 `GetNvramInfo` 方法會傳回類似下列範例的回應。

```
{
  id: 1,
  result: {
    nvramInfo: {
      details: {
        errors: {
          numOfErrorLogEntries: "0"
        }
      }
    }
  }
}
```

```
},
extended: {
  dialogVersion: "4",
  event: [
    {
      name: "flushToFlash",
      time: "2014-02-24 20:30:28",
      value: "0"
    },
    {
      name: "flushToFlash",
      time: "1946-02-06 17:16:42",
      value: "0"
    },
    {
      name: "flushToFlash",
      time: "2014-02-25 00:48:06",
      value: "0"
    },
    {
      name: "flushToFlash",
      time: "2014-02-25 15:44:07",
      value: "0"
    },
    {
      name: "flushToFlash",
      time: "2014-03-17 17:21:46",
      value: "0"
    },
    {
      name: "flushToFlash",
      time: "2014-03-17 17:59:30",
      value: "0"
    },
    {
      name: "flushToFlash",
      time: "2014-03-17 18:06:27",
      value: "0"
    },
    {
      name: "flushToFlash",
      time: "2014-03-17 21:43:17",
      value: "0"
    },
    {
      name: "excessiveCurrent",
```

```

        time: "2014-02-25 00:00:29",
        value: "39"
    },
    {
        name: "excessiveCurrent",
        time: "2014-03-01 00:00:24",
        value: "23"
    }
],
eventOccurrences: [
    {
        count: "15",
        name: "flushToFlash"
    },
    {
        count: "2",
        name: "excessiveCurrent"
    }
    initialCapacitance: "6.653 F",
    initialEsr: "0.097 Ohm",
    measurement: [
        {
            level_0: " 0",
            level_1: " 112",
            level_2: " 670919",
            level_3: " 455356",
            level_4: " 90215",
            level_5: " 0",
            level_6: " 0",
            level_7: " 0",
            level_8: " 0",
            level_9: " 0",
            name: "enterpriseFlashControllerTemperature",
            recent: "64 C"
        },
        {
            level_0: " 0",
            level_1: " 27",
            level_2: " 456896",
            level_3: " 717565",
            level_4: " 39422",
            level_5: " 2692",
            level_6: " 0",
            level_7: " 0",
            level_8: " 0",
            level_9: " 0",

```



```

        name: "capacitor1And2Temperature",
        recent: "28.64 C"
    },
    {
        level_0: " 0",
        level_1: " 2080",
        level_2: " 907196",
        level_3: " 280178",
        level_4: " 26539",
        level_5: " 609",
        level_6: " 0",
        level_7: " 0",
        level_8: " 0",
        level_9: " 0",
        name: "capacitor3And4Temperature",
        recent: "28.60 C"
    },
    {
        errorPeriod: {
            duration: "24",
            startTime: "2014-02-06 00:23:54",
            worst: "8"
        },
        level_0: " 0",
        level_1: " 839",
        level_2: " 272794",
        level_3: " 404758",
        level_4: " 35216",
        level_5: " 377818",
        level_6: " 103891",
        level_7: " 21274",
        level_8: " 12",
        level_9: " 0",
        name: "rearVentAmbientTemperature",
        recent: "46.82 C"
    },
    {
        level_0: " 0",
        level_1: " 742749",
        level_2: " 460016",
        level_3: " 13837",
        level_4: " 0",
        level_5: " 0",
        level_6: " 0",
        level_7: " 0",
        level_8: " 0",

```

```

    level_9: " 0",
    name: "rms200BoardTemperature",
    recent: "50.62 C"
  },
  {
    name: "voltageOfCapacitor1",
    recent: "2.308 V"
  },
  {
    name: "voltageOfCapacitor2",
    recent: "2.305 V"},
  {
    name: "voltageOfCapacitor3",
    recent: "2.314 V"
  },
  {
    name: "voltageOfCapacitor4",
    recent: "2.307 V"
  },
  {
    level_0: " 175052",
    level_1: " 51173",
    level_2: " 435788",
    level_3: " 12766",
    level_4: " 4",
    level_5: " 6",
    level_6: " 541813",
    level_7: " 0",
    level_8: " 0",
    level_9: " 0",
    name: "capacitorPackVoltage",
    recent: "9.233 V"
  },
  {
    level_0: " 0",
    level_1: " 0",
    level_2: " 0",
    level_3: " 0",
    level_4: " 0",
    level_5: " 0",
    level_6: " 4",
    level_7: " 1",
    level_8: " 4",
    level_9: " 6",
    name: "capacitorPackVoltageAtEndOfFlushToFlash",
    recent: "5.605 V"
  }

```

```

},
{
    name: "currentDerivedFromV3V4",
    recent: "0.000 A"
},
{
    level_0: " 7",
    level_1: " 4",
    level_2: " 3",
    level_3: " 1",
    level_4: " 0",
    level_5: " 0",
    level_6: " 0",
    level_7: " 0",
    level_8: " 0",
    level_9: " 0",
    name: "derivedEnergy",
    recent: "175 Joules"
},
{
    level_0: " 0",
    level_1: " 0",
    level_2: " 0",
    level_3: " 0",
    level_4: " 0",
    level_5: " 0",
    level_6: " 0",
    level_7: " 17",
    level_8: " 19",
    level_9: " 7",
    name: "derivedCapacitanceOfThePack",
    recent: "5.959 F"
},
{
    level_0: " 0",
    level_1: " 43",
    level_2: " 0",
    level_3: " 0",
    level_4: " 0",
    level_5: " 0",
    level_6: " 0",
    level_7: " 0",
    level_8: " 0",
    level_9: " 0",
    name: "derivedEsrOfCapacitorPack",
    recent: "0.104 Ohm"
}

```

```

},
{
    level_0: " 0",
    level_1: " 0",
    level_2: " 0",
    level_3: " 0",
    level_4: " 15",
    level_5: " 0",
    level_6: " 0",
    level_7: " 0",
    level_8: " 0",
    level_9: " 0",
    name: "timeToRunFlushToFlash",
    recent: "22.40 Seconds"
},
{
    level_0: " 0",
    level_1: " 0",
    level_2: " 7",
    level_3: " 0",
    level_4: " 0",
    level_5: " 0",
    level_6: " 0",
    level_7: " 0",
    level_8: " 0",
    level_9: " 0",
    name: "timeToRunRestore",
    recent: "20.44 Seconds"
},
{
    level_0: " 0",
    level_1: " 1",
    level_2: " 3",
    level_3: " 2",
    level_4: " 0",
    level_5: " 0",
    level_6: " 0",
    level_7: " 0",
    level_8: " 0",
    level_9: " 1",
    name: "timeToChargeCapacitors",
    recent: "48 Seconds"
},
{
    level_0: " 448586",
    level_1: " 2998",

```

```

        level_2: " 0",
        level_3: " 0",
        level_4: " 0",
        level_5: " 0",
        level_6: " 0",
        level_7: " 0",
        level_8: " 0",
        level_9: " 0",
        name: "correctableBitsInErrorOnReadingAPage"
    },
    {
        level_0: " 2998",
        level_1: " 0",
        level_2: " 0",
        level_3: " 0",
        level_4: " 0",
        level_5: " 0",
        level_6: " 0",
        level_7: " 0",
        level_8: " 0",
        level_9: " 0",
        name:
"correctableBitsInErrorOnReadingTheWorstBchRegionOfAPage"
    },
    {
        level_0: " 0",
        level_1: " 37",
        level_2: " 280274",
        level_3: " 422999",
        level_4: " 245814",
        level_5: " 242470",
        level_6: " 24447",
        level_7: " 561",
        level_8: " 0",
        level_9: " 0",
        name: "fanInletAmbientTemperature",
        recent: "41.74 C"
    }
],
    predictedCapacitanceDepletion: "504328 uF",
    smartCounters: [
    {
        name: "numberOf512ByteBlocksReadFromDdr",
        value: "218284648"
    },
    {

```

```

        name: "numberOf512ByteBlocksWrittenToDdr",
        value: "12031567354"
    },
    {
        name: "numberOfHostReadCommands",
        value: "5366315"
    },
    {
        name: "numberOfHostWriteCommands",
        value: "1266099334"
    },
    {
        name: "controllerBusyTimeMinutes",
        value: "0"
    },
    {
        name: "numberOfPowerCycles",
        value: "13"
    },
    {
        name: "powerOnHours",
        value: "1009"
    },
    {
        name: "unsafeShutdowns",
        value: "5"
    },
    {
        name: "mediaErrors",
        value: "0"
    },
    {
        name: "numberOfErrorLogs",
        value: "2"
    }
],
    snapshotTime: "2014-03-20 16:43:49"
},
firmware: {
    activeSlotNumber: "2",
    slot1Version: "1e5817bc",
    slot2Version: "1e0d70ac",
    slot3Version: "1e5817bc",
    slot4Version: "1e5817bc"
},
smart: {

```

```

    availableSpace: "0%",
    availableSpaceThreshold: "0%",
    controllerBusyTimeMinutes: "0",
    criticalErrorVector: "0x0",
    mediaErrors: "0",
    numberOf512ByteBlocksRead: "218284648",
    numberOf512ByteBlocksWritten: "12031567354",
    numberOfErrorInfoLogs: "2",
    numberOfHostReadCommands: "5366315",
    numberOfHostWriteCommands: "1266099334",
    numberOfPowerCycles: "13",
    powerOnHours: "1009",
    temperature: "323 Kelvin",
    unsafeShutdowns: "5"
  }
},
status: "Warning",
statusInfo: {
warning: [
  "excessiveCurrent (2x)"
]
},
type: "RMS-200"
}
}
}

```

ListActiveNode

此 `ListActiveNodes` 方法會傳回類似下列範例的回應。

```

{
  "id": 1,
  "result": {
    "nodes": [
      {
        "associatedFServiceID": 0,
        "associatedMasterServiceID": 1,
        "attributes": {},
        "cip": "172.27.21.23",
        "cipi": "Bond10G",
        "fibreChannelTargetPortGroup": null,
        "mip": "172.27.1.23",
        "mipi": "Bond1G",
        "name": "PSN-1-23",

```

```

"nodeID": 1,
"platformInfo": {
  "chassisType": "R620",
  "cpuModel": "Intel(R) Xeon(R) CPU E5-2640 0 @
2.50GHz",
  "nodeMemoryGB": 72,
  "nodeType": "SF3010"
},
"sip": "172.27.21.23",
"sipi": "Bond10G",
"softwareVersion": "9.0.0.1298",
"uuid": "4C4C4544-0056-3810-804E-B5C04F4C5631",
"virtualNetworks": [
  {
    "address": "10.1.2.4",
    "virtualNetworkID": 1
  },
  {
    "address": "10.2.2.10",
    "virtualNetworkID": 2
  }
]
},
{
  "associatedFServiceID": 0,
  "associatedMasterServiceID": 4,
  "attributes": {},
  "cip": "172.27.21.24",
  "cipi": "Bond10G",
  "fibreChannelTargetPortGroup": null,
  "mip": "172.27.1.24",
  "mipi": "Bond1G",
  "name": "PSN-1-24",
  "nodeID": 2,
  "platformInfo": {
    "chassisType": "R620",
    "cpuModel": "Intel(R) Xeon(R) CPU E5-2640 0 @
2.50GHz",
    "nodeMemoryGB": 72,
    "nodeType": "SF3010"
  },
  "sip": "172.27.21.24",
  "sipi": "Bond10G",
  "softwareVersion": "9.0.0.1298",
  "uuid": "4C4C4544-0042-4210-804E-C3C04F4C5631",
  "virtualNetworks": [

```



```

        {
            "address": "10.1.2.5",
            "virtualNetworkID": 1
        },
        {
            "address": "10.2.2.11",
            "virtualNetworkID": 2
        }
    ]
},
{
    "associatedFServiceID": 0,
    "associatedMasterServiceID": 2,
    "attributes": {},
    "cip": "172.27.21.25",
    "cipi": "Bond10G",
    "fibreChannelTargetPortGroup": null,
    "mip": "172.27.1.25",
    "mipi": "Bond1G",
    "name": "PSN-1-25",
    "nodeID": 3,
    "platformInfo": {
        "chassisType": "R620",
        "cpuModel": "Intel(R) Xeon(R) CPU E5-2640 0 @
2.50GHz",
        "nodeMemoryGB": 72,
        "nodeType": "SF3010"
    },
    "sip": "172.27.21.25",
    "sipi": "Bond10G",
    "softwareVersion": "9.0.0.1298",
    "uuid": "4C4C4544-0053-4210-8051-C6C04F515631",
    "virtualNetworks": [
        {
            "address": "10.1.2.6",
            "virtualNetworkID": 1
        },
        {
            "address": "10.2.2.12",
            "virtualNetworkID": 2
        }
    ]
},
{
    "associatedFServiceID": 0,
    "associatedMasterServiceID": 3,

```

```

"attributes": {},
"cip": "172.27.21.26",
"cipi": "Bond10G",
"fibreChannelTargetPortGroup": null,
"mip": "172.27.1.26",
"mipi": "Bond1G",
"name": "PSN-1-26",
"nodeID": 4,
"platformInfo": {
  "chassisType": "R620",
  "cpuModel": "Intel (R) Xeon (R) CPU E5-2640 0 @
2.50GHz",
  "nodeMemoryGB": 72,
  "nodeType": "SF3010"
},
"sip": "172.27.21.26",
"sipi": "Bond10G",
"softwareVersion": "9.0.0.1298",
"uuid": "4C4C4544-0056-3810-804E-B4C04F4C5631",
"virtualNetworks": [
  {
    "address": "10.1.2.7",
    "virtualNetworkID": 1
  },
  {
    "address": "10.2.2.13",
    "virtualNetworkID": 2
  }
]
}
]
}
}

```

listActiveVolumes

此 `ListActiveVolumes` 方法會傳回類似下列範例的回應。

```

{
  "id": 1,
  "result": {
    "volumes": [
      {
        "access": "readWrite",
        "accountID": 1,

```

```

    "attributes": {},
    "blockSize": 4096,
    "createTime": "2016-06-23T14:19:12Z",
    "deleteTime": "",
    "enable512e": false,
    "iqn": "iqn.2010-01.com.solidfire:0oto.hulkdemo1.1",
    "name": "HulkDemo1",
    "purgeTime": "",
    "qos": {
      "burstIOPS": 1500,
      "burstTime": 60,
      "curve": {
        "4096": 100,
        "8192": 160,
        "16384": 270,
        "32768": 500,
        "65536": 1000,
        "131072": 1950,
        "262144": 3900,
        "524288": 7600,
        "1048576": 15000
      },
      "maxIOPS": 1000,
      "minIOPS": 100
    },
    "scsiEUIDeviceID": "306f746f00000001f47acc0100000000",
    "scsiNAADeviceID": "6f47acc100000000306f746f00000001",
    "sliceCount": 1,
    "status": "active",
    "totalSize": 53687091200,
    "virtualVolumeID": null,
    "volumeAccessGroups": [
      1
    ],
    "volumeID": 1,
    "volumePairs": []
  },
  {
    "access": "readWrite",
    "accountID": 1,
    "attributes": {},
    "blockSize": 4096,
    "createTime": "2016-06-23T14:19:14Z",
    "deleteTime": "",
    "enable512e": false,
    "iqn": "iqn.2010-01.com.solidfire:0oto.hulkdemo6.6",

```

```

"name": "HulkDemo6",
"purgeTime": "",
"qos": {
  "burstIOPS": 1500,
  "burstTime": 60,
  "curve": {
    "4096": 100,
    "8192": 160,
    "16384": 270,
    "32768": 500,
    "65536": 1000,
    "131072": 1950,
    "262144": 3900,
    "524288": 7600,
    "1048576": 15000
  },
  "maxIOPS": 1000,
  "minIOPS": 100
},
"scsiEUIDeviceID": "306f746f00000006f47acc0100000000",
"scsiNAADeviceID": "6f47acc100000000306f746f00000006",
"sliceCount": 1,
"status": "active",
"totalSize": 53687091200,
"virtualVolumeID": null,
"volumeAccessGroups": [
  1
],
"volumeID": 6,
"volumePairs": []
},
{
  "access": "readWrite",
  "accountID": 1,
  "attributes": {},
  "blockSize": 4096,
  "createTime": "2016-06-23T14:19:14Z",
  "deleteTime": "",
  "enable512e": false,
  "iqn": "iqn.2010-01.com.solidfire:0oto.hulkdemo7.7",
  "name": "HulkDemo7",
  "purgeTime": "",
  "qos": {
    "burstIOPS": 1500,
    "burstTime": 60,
    "curve": {

```

```

        "4096": 100,
        "8192": 160,
        "16384": 270,
        "32768": 500,
        "65536": 1000,
        "131072": 1950,
        "262144": 3900,
        "524288": 7600,
        "1048576": 15000
    },
    "maxIOPS": 1000,
    "minIOPS": 100
},
"scsiEUIDeviceID": "306f746f00000007f47acc0100000000",
"scsiNAADeviceID": "6f47acc100000000306f746f00000007",
"sliceCount": 1,
"status": "active",
"totalSize": 53687091200,
"virtualVolumeID": null,
"volumeAccessGroups": [
    1
],
"volumeID": 7,
"volumePairs": []
},
{
    "access": "readWrite",
    "accountID": 1,
    "attributes": {},
    "blockSize": 4096,
    "createTime": "2016-06-23T14:19:15Z",
    "deleteTime": "",
    "enable512e": false,
    "iqn": "iqn.2010-01.com.solidfire:0oto.hulkdemo8.8",
    "name": "HulkDemo8",
    "purgeTime": "",
    "qos": {
        "burstIOPS": 1500,
        "burstTime": 60,
        "curve": {
            "4096": 100,
            "8192": 160,
            "16384": 270,
            "32768": 500,
            "65536": 1000,
            "131072": 1950,

```

```

        "262144": 3900,
        "524288": 7600,
        "1048576": 15000
    },
    "maxIOPS": 1000,
    "minIOPS": 100
},
"scsiEUIDeviceID": "306f746f00000008f47acc0100000000",
"scsiNAADeviceID": "6f47acc100000000306f746f00000008",
"sliceCount": 1,
"status": "active",
"totalSize": 53687091200,
"virtualVolumeID": null,
"volumeAccessGroups": [
    1
],
"volumeID": 8,
"volumePairs": []
},
{
    "access": "readWrite",
    "accountID": 1,
    "attributes": {},
    "blockSize": 4096,
    "createTime": "2016-06-23T14:19:15Z",
    "deleteTime": "",
    "enable512e": false,
    "iqn": "iqn.2010-01.com.solidfire:0oto.hulkdemo9.9",
    "name": "HulkDemo9",
    "purgeTime": "",
    "qos": {
        "burstIOPS": 1500,
        "burstTime": 60,
        "curve": {
            "4096": 100,
            "8192": 160,
            "16384": 270,
            "32768": 500,
            "65536": 1000,
            "131072": 1950,
            "262144": 3900,
            "524288": 7600,
            "1048576": 15000
        },
        "maxIOPS": 1000,
        "minIOPS": 100
    }
}

```

```

    },
    "scsiEUIDeviceID": "306f746f00000009f47acc0100000000",
    "scsiNAADeviceID": "6f47acc100000000306f746f00000009",
    "sliceCount": 1,
    "status": "active",
    "totalSize": 53687091200,
    "virtualVolumeID": null,
    "volumeAccessGroups": [
        1
    ],
    "volumeID": 9,
    "volumePairs": []
},
{
    "access": "readWrite",
    "accountID": 1,
    "attributes": {},
    "blockSize": 4096,
    "createTime": "2016-06-23T14:19:16Z",
    "deleteTime": "",
    "enable512e": false,
    "iqn": "iqn.2010-01.com.solidfire:0oto.hulkdemo12.12",
    "name": "HulkDemo12",
    "purgeTime": "",
    "qos": {
        "burstIOPS": 1500,
        "burstTime": 60,
        "curve": {
            "4096": 100,
            "8192": 160,
            "16384": 270,
            "32768": 500,
            "65536": 1000,
            "131072": 1950,
            "262144": 3900,
            "524288": 7600,
            "1048576": 15000
        },
        "maxIOPS": 1000,
        "minIOPS": 100
    },
    "scsiEUIDeviceID": "306f746f0000000cf47acc0100000000",
    "scsiNAADeviceID": "6f47acc100000000306f746f0000000c",
    "sliceCount": 1,
    "status": "active",
    "totalSize": 53687091200,

```

```

    "virtualVolumeID": null,
    "volumeAccessGroups": [
      1
    ],
    "volumeID": 12,
    "volumePairs": []
  },
  {
    "access": "readWrite",
    "accountID": 1,
    "attributes": {},
    "blockSize": 4096,
    "createTime": "2016-06-23T14:19:18Z",
    "deleteTime": "",
    "enable512e": false,
    "iqn": "iqn.2010-01.com.solidfire:0oto.hulkdemo16.16",
    "name": "HulkDemo16",
    "purgeTime": "",
    "qos": {
      "burstIOPS": 1500,
      "burstTime": 60,
      "curve": {
        "4096": 100,
        "8192": 160,
        "16384": 270,
        "32768": 500,
        "65536": 1000,
        "131072": 1950,
        "262144": 3900,
        "524288": 7600,
        "1048576": 15000
      },
      "maxIOPS": 1000,
      "minIOPS": 100
    },
    "scsiEUIDeviceID": "306f746f000000010f47acc0100000000",
    "scsiNAADeviceID": "6f47acc1000000000306f746f00000010",
    "sliceCount": 1,
    "status": "active",
    "totalSize": 53687091200,
    "virtualVolumeID": null,
    "volumeAccessGroups": [
      1
    ],
    "volumeID": 16,
    "volumePairs": []
  }
}

```



```

    },
    {
      "access": "readWrite",
      "accountID": 1,
      "attributes": {},
      "blockSize": 4096,
      "createTime": "2016-06-23T14:19:18Z",
      "deleteTime": "",
      "enable512e": false,
      "iqn": "iqn.2010-01.com.solidfire:0oto.hulkdemo17.17",
      "name": "HulkDemo17",
      "purgeTime": "",
      "qos": {
        "burstIOPS": 1500,
        "burstTime": 60,
        "curve": {
          "4096": 100,
          "8192": 160,
          "16384": 270,
          "32768": 500,
          "65536": 1000,
          "131072": 1950,
          "262144": 3900,
          "524288": 7600,
          "1048576": 15000
        },
        "maxIOPS": 1000,
        "minIOPS": 100
      },
      "scsiEUIDeviceID": "306f746f00000011f47acc0100000000",
      "scsiNAADeviceID": "6f47acc100000000306f746f00000011",
      "sliceCount": 1,
      "status": "active",
      "totalSize": 53687091200,
      "virtualVolumeID": null,
      "volumeAccessGroups": [
        1
      ],
      "volumeID": 17,
      "volumePairs": []
    },
    {
      "access": "readWrite",
      "accountID": 1,
      "attributes": {},
      "blockSize": 4096,

```

```

    "createTime": "2016-06-23T14:19:18Z",
    "deleteTime": "",
    "enable512e": false,
    "iqn": "iqn.2010-01.com.solidfire:0oto.hulkdemo18.18",
    "name": "HulkDemo18",
    "purgeTime": "",
    "qos": {
      "burstIOPS": 1500,
      "burstTime": 60,
      "curve": {
        "4096": 100,
        "8192": 160,
        "16384": 270,
        "32768": 500,
        "65536": 1000,
        "131072": 1950,
        "262144": 3900,
        "524288": 7600,
        "1048576": 15000
      },
      "maxIOPS": 1000,
      "minIOPS": 100
    },
    "scsiEUIDeviceID": "306f746f00000012f47acc0100000000",
    "scsiNAADeviceID": "6f47acc100000000306f746f00000012",
    "sliceCount": 1,
    "status": "active",
    "totalSize": 53687091200,
    "virtualVolumeID": null,
    "volumeAccessGroups": [
      1
    ],
    "volumeID": 18,
    "volumePairs": []
  },
  {
    "access": "readWrite",
    "accountID": 1,
    "attributes": {},
    "blockSize": 4096,
    "createTime": "2016-06-24T15:21:59Z",
    "deleteTime": "",
    "enable512e": true,
    "iqn": "iqn.2010-01.com.solidfire:0oto.bk.24",
    "name": "BK",
    "purgeTime": "",

```

```

"qos": {
  "burstIOPS": 15000,
  "burstTime": 60,
  "curve": {
    "4096": 100,
    "8192": 160,
    "16384": 270,
    "32768": 500,
    "65536": 1000,
    "131072": 1950,
    "262144": 3900,
    "524288": 7600,
    "1048576": 15000
  },
  "maxIOPS": 15000,
  "minIOPS": 50
},
"scsiEUIDeviceID": "306f746f00000018f47acc0100000000",
"scsiNAADeviceID": "6f47acc100000000306f746f00000018",
"sliceCount": 1,
"status": "active",
"totalSize": 10737418240,
"virtualVolumeID": null,
"volumeAccessGroups": [],
"volumeID": 24,
"volumePairs": [
  {
    "clusterPairID": 2,
    "remoteReplication": {
      "mode": "Async",
      "pauseLimit": 3145728000,
      "remoteServiceID": 14,
      "resumeDetails": "",
      "snapshotReplication": {
        "state": "Idle",
        "stateDetails": ""
      }
    },
    "state": "Active",
    "stateDetails": ""
  },
  "remoteSliceID": 8,
  "remoteVolumeID": 8,
  "remoteVolumeName": "PairingDoc",
  "volumePairUUID": "229fcbf3-2d35-4625-865a-
d04bb9455cef"
}

```

```
    ]
  }
]
}
```

測試硬體組態

此 `TestHardwareConfig` 方法會傳回類似下列範例的回應。

```
{
  "id": 1,
  "result": {
    "nodes": [
      {
        "nodeID": 1,
        "result": {
          "details": {
            "BIOS_REVISION": {
              "Passed": true,
              "actual": "2.0",
              "comparator": ">=",
              "expected": "1.0.0.0"
            },
            "BIOS_VENDOR": {
              "Passed": true,
              "actual": "SolidFire",
              "comparator": "==",
              "expected": "SolidFire"
            },
            "BIOS_VERSION": {
              "Passed": true,
              "actual": "2.0.19",
              "comparator": ">=",
              "expected": "2.0.19"
            },
            "CPU_CORES_00": {
              "Passed": true,
              "actual": "6",
              "comparator": "==",
              "expected": "6"
            },
            "CPU_CORES_01": {
              "Passed": true,
```

```

        "actual": "6",
        "comparator": "==",
        "expected": "6"
    },
    "CPU_CORES_ENABLED_00": {
        "Passed": true,
        "actual": "6",
        "comparator": "==",
        "expected": "6"
    },
    "CPU_CORES_ENABLED_01": {
        "Passed": true,
        "actual": "6",
        "comparator": "==",
        "expected": "6"
    },
    "CPU_MODEL_00": {
        "Passed": true,
        "actual": "Intel(R) Xeon(R) CPU E5-2620 v2 @
2.10GHz",
        "comparator": "==",
        "expected": "Intel(R) Xeon(R) CPU E5-2620 v2 @
2.10GHz"
    },
    "CPU_MODEL_01": {
        "Passed": true,
        "actual": "Intel(R) Xeon(R) CPU E5-2620 v2 @
2.10GHz",
        "comparator": "==",
        "expected": "Intel(R) Xeon(R) CPU E5-2620 v2 @
2.10GHz"
    },
    "CPU_THREADS_00": {
        "Passed": true,
        "actual": "12",
        "comparator": "==",
        "expected": "12"
    },
    "CPU_THREADS_01": {
        "Passed": true,
        "actual": "12",
        "comparator": "==",
        "expected": "12"
    },
    "CPU_THREADS_ENABLED": {
        "Passed": true,

```

```
        "actual": "24",
        "comparator": "==",
        "expected": "24"
    },
    "IDRAC_VERSION": {
        "Passed": true,
        "actual": "2.41.40.40",
        "comparator": ">=",
        "expected": "1.06.06"
    },
    "MEMORY_GB": {
        "Passed": true,
        "actual": "64",
        "comparator": ">=",
        "expected": "64"
    },
    "MEMORY_MHZ_00": {
        "Passed": true,
        "actual": "1600",
        "comparator": ">=",
        "expected": "1333"
    },
    "MEMORY_MHZ_01": {
        "Passed": true,
        "actual": "1600",
        "comparator": ">=",
        "expected": "1333"
    },
    "MEMORY_MHZ_02": {
        "Passed": true,
        "actual": "1600",
        "comparator": ">=",
        "expected": "1333"
    },
    "MEMORY_MHZ_03": {
        "Passed": true,
        "actual": "1600",
        "comparator": ">=",
        "expected": "1333"
    },
    "MEMORY_MHZ_04": {
        "Passed": true,
        "actual": "1600",
        "comparator": ">=",
        "expected": "1333"
    },
    },
```

```
"MEMORY_MHZ_05": {
  "Passed": true,
  "actual": "1600",
  "comparator": ">=",
  "expected": "1333"
},
"MEMORY_MHZ_06": {
  "Passed": true,
  "actual": "1600",
  "comparator": ">=",
  "expected": "1333"
},
"MEMORY_MHZ_07": {
  "Passed": true,
  "actual": "1600",
  "comparator": ">=",
  "expected": "1333"
},
"MPTSAS_BIOS_VERSION": {
  "Passed": true,
  "actual": "07.24.01.00",
  "comparator": "ANY",
  "expected": "7.25.0.0"
},
"MPTSAS_FIRMWARE_VERSION": {
  "Passed": true,
  "actual": "13.00.57.00",
  "comparator": "==",
  "expected": "13.0.57.0"
},
"NETWORK_DRIVER_ETH0": {
  "Passed": true,
  "actual": "bnx2x",
  "comparator": "==",
  "expected": "bnx2x"
},
"NETWORK_DRIVER_ETH1": {
  "Passed": true,
  "actual": "bnx2x",
  "comparator": "==",
  "expected": "bnx2x"
},
"NETWORK_DRIVER_ETH2": {
  "Passed": true,
  "actual": "bnx2x",
  "comparator": "==",
```

```

        "expected": "bnx2x"
    },
    "NETWORK_DRIVER_ETH3": {
        "Passed": true,
        "actual": "bnx2x",
        "comparator": "==",
        "expected": "bnx2x"
    },
    "NETWORK_FIRMWARE_VERSION_ETH0": {
        "Passed": true,
        "actual": "7.10.18-solidfire-5f3ccbc781d53",
        "comparator": "==",
        "expected": "7.10.18-solidfire-5f3ccbc781d53"
    },
    "NETWORK_FIRMWARE_VERSION_ETH1": {
        "Passed": true,
        "actual": "7.10.18-solidfire-5f3ccbc781d53",
        "comparator": "==",
        "expected": "7.10.18-solidfire-5f3ccbc781d53"
    },
    "NETWORK_FIRMWARE_VERSION_ETH2": {
        "Passed": true,
        "actual": "7.10.18-solidfire-5f3ccbc781d53",
        "comparator": "==",
        "expected": "7.10.18-solidfire-5f3ccbc781d53"
    },
    "NETWORK_FIRMWARE_VERSION_ETH3": {
        "Passed": true,
        "actual": "7.10.18-solidfire-5f3ccbc781d53",
        "comparator": "==",
        "expected": "7.10.18-solidfire-5f3ccbc781d53"
    },
    "NUM_CPU": {
        "Passed": true,
        "actual": "2",
        "comparator": "==",
        "expected": "2"
    },
    "Parse failure in /var/log/sf-bios.info": {
        "Passed": true,
        "actual": "false",
        "comparator": "==",
        "expected": "false"
    }
},
"duration": "00:00:00.195067",

```



```
    "result": "Passed"
  }
}
]
```

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