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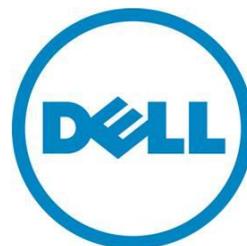
# Server Configuration XML File

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*This Dell Technical White Paper explains the structure of a server configuration XML snapshot generated using Lifecycle Controller*

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## Executive summary

With Lifecycle Controller 2 version 1.2, a snapshot of the system configuration can be captured to XML file format and exported to a network share. This file can then be tweaked to change one or multiple configuration settings spanning different device classes and can be imported on to one or more target systems, thus causing the configuration changes on the target systems. This document helps the reader understand the various sections in a generated XML snapshot and also touches on attribute dependencies and commented attributes.

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## Introduction

This document enables the reader to understand the layout and the semantics of a server configuration snapshot that can be generated in XML format using Lifecycle Controller 2 version 1.2.

## Relevant Links

XML Configuration Feature - XML File Structure (this doc)

[http://en.community.dell.com/techcenter/extras/m/white\\_papers/20269601.aspx](http://en.community.dell.com/techcenter/extras/m/white_papers/20269601.aspx)

The corresponding files can be found at the following link:

[http://en.community.dell.com/techcenter/extras/m/white\\_papers/20269604.aspx](http://en.community.dell.com/techcenter/extras/m/white_papers/20269604.aspx)

Configuration XML Workflows

[http://en.community.dell.com/techcenter/extras/m/white\\_papers/20269586.aspx](http://en.community.dell.com/techcenter/extras/m/white_papers/20269586.aspx)

The corresponding scripts are at the following link:

[http://en.community.dell.com/techcenter/extras/m/white\\_papers/20269591.aspx](http://en.community.dell.com/techcenter/extras/m/white_papers/20269591.aspx)

## Server Configuration XML

A snapshot of the Server Configuration XML file is given below. As can be seen the server configuration snapshot consists <attribute, value> pairs, grouped by Component. Each Component section corresponds to configuration for one device. A given snapshot would contain configuration attributes for BIOS, NIC, RAID, iDRAC, System, Lifecycle Controller and FC components. With the exception of RAID, the configuration information for all other components is laid out in a flat, non-nested manner. RAID data is laid out in a hierarchical manner to a maximum depth of 3, with the Controller at the outermost level. Virtual Disks, Enclosures and Direct attached Physical disks are listed as children of the Controller component. Physical disks attached to an enclosure are listed as children of that enclosure node.

```
<SystemConfiguration Model="PowerEdge R620" ServiceTag="HPGBDV1"
TimeStamp="Tue Aug 14 14:38:10 2012">
<Component FQDD="LifecycleController.Embedded.1">
  <Attribute
Name="LCAttributes.1#CollectSystemInventoryOnRestart">Enabled</Attribute>
  <Attribute
Name="LCAttributes.1#PartConfigurationUpdate">Disabled</Attribute>
  <Attribute Name="LCAttributes.1#PartFirmwareUpdate">Disabled</Attribute>
  <!-- <Attribute
Name="LCAttributes.1#LifecycleControllerState">Disabled</Attribute>
-->
```

To effectively use the Import Configuration feature in Lifecycle Controller 2 version 1.2, it is essential to know the data format of the snapshot and to know what particular attributes / sections are important. Read on to learn more.







```

-->
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<Attribute Name="Users.9#IpmlanPrivilege">No Access</Attribute>
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<Attribute Name="Users.9#Enable">Disabled</Attribute>
<Attribute Name="Users.9#SolEnable">Disabled</Attribute>
<Attribute Name="Users.9#ProtocolEnable">Disabled</Attribute>
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-->
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<Attribute Name="Users.10#SolEnable">Disabled</Attribute>
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<Attribute Name="Users.10#PrivacyProtocol">AES</Attribute>
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<Attribute Name="Users.13#SolEnable">Disabled</Attribute>
<Attribute Name="Users.13#ProtocolEnable">Disabled</Attribute>
<Attribute Name="Users.13#AuthenticationProtocol">SHA</Attribute>
<Attribute Name="Users.13#PrivacyProtocol">AES</Attribute>
<Attribute Name="Users.14#UserName"></Attribute>
<!-- <Attribute Name="Users.14#Password">*****</Attribute>
-->

```



```

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-->
<Attribute Name="Users.15#Privilege">0</Attribute>
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<Attribute Name="Users.15#Enable">Disabled</Attribute>
<Attribute Name="Users.15#SolEnable">Disabled</Attribute>
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<Attribute Name="Users.15#AuthenticationProtocol">SHA</Attribute>
<Attribute Name="Users.15#PrivacyProtocol">AES</Attribute>
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<!-- <Attribute Name="Users.16#Password">*****</Attribute>
-->
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<Attribute Name="EmailAlert.3#Address"></Attribute>
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<Attribute Name="EmailAlert.4#Enable">Disabled</Attribute>
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<Attribute Name="EmailAlert.4#CustomMsg"></Attribute>
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<Attribute Name="SSH.1#Timeout">1800</Attribute>
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```



```

<Attribute Name="VirtualConsole.1#Enable">Enabled</Attribute>
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<Attribute Name="IPMISerial.1#BaudRate">19200</Attribute>
<Attribute Name="IPMISerial.1#FlowControl">None</Attribute>
<Attribute Name="IPMISerial.1#ChanPrivLimit">Administrator</Attribute>
<Attribute Name="IPMISerial.1#LineEdit">Enabled</Attribute>
<Attribute Name="IPMISerial.1#DeleteControl">Disabled</Attribute>
<Attribute Name="IPMISerial.1#EchoControl">Enabled</Attribute>
<Attribute Name="IPMISerial.1#HandshakeControl">Enabled</Attribute>
<Attribute Name="IPMISerial.1#NewLineSeq">CR-LF</Attribute>
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```



```

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<!-- <Attribute Name="LDAP.1#BindPassword">*****</Attribute>
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<Attribute Name="RemoteHosts.1#SMTPServerIPAddress">0.0.0.0</Attribute>
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```



```

<Attribute Name="OS-BMC.1#AdminState">Disabled</Attribute>
<Attribute Name="OS-BMC.1#IracPTEpIpAddr">169.254.253.252</Attribute>
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<Attribute Name="NIC.1#Enable">Enabled</Attribute>
<Attribute Name="NIC.1#Selection">Dedicated</Attribute>
<Attribute Name="NIC.1#Failover">None</Attribute>
<Attribute Name="NIC.1#Autoneg">Enabled</Attribute>
<Attribute Name="NIC.1#Speed">1000</Attribute>
<Attribute Name="NIC.1#Duplex">Half</Attribute>
<Attribute Name="NIC.1#MTU">1500</Attribute>
<Attribute Name="NIC.1#DNSRacName">idrac-HPGBDV1</Attribute>
<Attribute Name="NIC.1#DNSRegister">Disabled</Attribute>
<Attribute Name="NIC.1#VlanEnable">Disabled</Attribute>
<Attribute Name="NIC.1#VlanPriority">0</Attribute>
<Attribute Name="NIC.1#VlanID">1</Attribute>
<Attribute Name="NIC.1#AutoDetect">Disabled</Attribute>
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<Attribute Name="NIC.1#SharedNICScanTime">30</Attribute>
<Attribute Name="IPv4.1#Enable">Enabled</Attribute>
<Attribute Name="IPv4.1#DHCPEnable">Disabled</Attribute>
<Attribute Name="IPv6.1#Enable">Disabled</Attribute>
<Attribute Name="IPv6.1#AutoConfig">Disabled</Attribute>
<Attribute Name="IPv6.1#IPv6NumOfExtAddress">0</Attribute>
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<Attribute Name="IPv4Static.1#Address">10.35.180.198</Attribute>
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<Attribute Name="SNMPAlert.5#State">Disabled</Attribute>
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<Attribute Name="SNMPAlert.6#State">Disabled</Attribute>
<Attribute Name="SNMPAlert.7#Destination">0.0.0.0</Attribute>
<Attribute Name="SNMPAlert.7#State">Disabled</Attribute>
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<Attribute Name="SNMPAlert.8#State">Disabled</Attribute>
<Attribute
Name="DefaultCredentialMitigationConfigGroup.1#DefaultCredentialMitigation"
>Disabled</Attribute>

```



```

<Attribute Name="NTPConfigGroup.1#NTP1"></Attribute>
<Attribute Name="NTPConfigGroup.1#NTP2"></Attribute>
<Attribute Name="NTPConfigGroup.1#NTP3"></Attribute>
<Attribute Name="NTPConfigGroup.1#NTPEnable">Disabled</Attribute>
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<Attribute Name="SecurityCSC.1#CSCCsrCommonName"></Attribute>
<Attribute Name="SecurityCSC.1#CSCCsrBusiness"></Attribute>
<Attribute Name="SecurityCSC.1#CSCCsrDeptName"></Attribute>
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<Attribute Name="SecurityCSC.1#CSCCsrCountryCode"></Attribute>
<Attribute Name="SecurityCSC.1#CSCCsrEmailAddr"></Attribute>
</Component>
<Component FQDD="RAID.Embedded.1-1">
  <Attribute Name="RAIDresetConfig">False</Attribute>
  <Component FQDD="Disk.Direct.1-1:RAID.Embedded.1-1">
    <!-- <Attribute Name="RAIDHotSpareStatus">No</Attribute> -->
    <!-- <Attribute Name="RAIDPDState">Ready</Attribute> -->
  </Component>
  <Component FQDD="Disk.Direct.3-3:RAID.Embedded.1-1">
    <!-- <Attribute Name="RAIDHotSpareStatus">No</Attribute> -->
    <!-- <Attribute Name="RAIDPDState">Ready</Attribute> -->
  </Component>
</Component>
<Component FQDD="RAID.Slot.2-1">
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  <Attribute Name="RAIDforeignConfig">Ignore</Attribute>
  <Attribute Name="RAIDrekey">False</Attribute>
  <Attribute Name="EncryptionMode">Local Key Management</Attribute>
  <!-- <Attribute Name="KeyID">Dell12345</Attribute> -->
  <!-- <Attribute Name="OldControllerKey">*****</Attribute> -->
  <!-- <Attribute Name="NewControllerKey">*****</Attribute> -->
  <Attribute Name="RAIDprMode">Automatic</Attribute>
  <Attribute Name="RAIDloadBalancedMode">Automatic</Attribute>
  <Attribute Name="RAIDccMode">Normal</Attribute>
  <Attribute Name="RAIDcopybackMode">On</Attribute>
  <Attribute Name="RAIDrebuildRate">34</Attribute>
  <Attribute Name="RAIDbgiRate">54</Attribute>
  <Attribute Name="RAIDccRate">30</Attribute>
  <Attribute Name="RAIDreconstructRate">30</Attribute>
  <Component FQDD="Disk.Virtual.0:RAID.Slot.2-1">
    <Attribute Name="RAIDaction">Update</Attribute>
    <Attribute Name="LockStatus">Unlocked</Attribute>
    <Attribute Name="RAIDinitOperation">None</Attribute>
    <Attribute Name="DiskCachePolicy">Default</Attribute>
    <Attribute Name="RAIDdefaultWritePolicy">WriteBack</Attribute>
    <Attribute Name="RAIDdefaultReadPolicy">Adaptive</Attribute>
    <!-- <Attribute Name="Cachecade">Not a Cachecade Virtual
Disk</Attribute> -->
    <!-- <Attribute Name="Name">vd1</Attribute> -->
    <!-- <Attribute Name="Size">299439751168</Attribute> -->
    <!-- <Attribute Name="StripeSize">128</Attribute> -->
    <!-- <Attribute Name="SpanDepth">1</Attribute> -->
    <!-- <Attribute Name="SpanLength">1</Attribute> -->
    <!-- <Attribute Name="RAIDTypes">RAID 0</Attribute> -->
  </Component>
</Component>

```



```

        <!-- <Attribute
Name="IncludedPhysicalDiskID">Disk.Bay.8:Enclosure.External.0-
0:RAID.Slot.2-1</Attribute> -->
    </Component>
    <Component FQDD="Enclosure.External.0-0:RAID.Slot.2-1">
        <Component FQDD="Disk.Bay.5:Enclosure.External.0-0:RAID.Slot.2-1">
            <!-- <Attribute Name="RAIDHotSpareStatus">No</Attribute> -->
            <!-- <Attribute Name="RAIDPDState">Foreign</Attribute> -->
        </Component>
        <Component FQDD="Disk.Bay.0:Enclosure.External.0-0:RAID.Slot.2-1">
            <!-- <Attribute Name="RAIDHotSpareStatus">No</Attribute> -->
            <!-- <Attribute Name="RAIDPDState">Foreign</Attribute> -->
        </Component>
        <Component FQDD="Disk.Bay.8:Enclosure.External.0-0:RAID.Slot.2-1">
            <!-- <Attribute Name="RAIDHotSpareStatus">No</Attribute> -->
            <!-- <Attribute Name="RAIDPDState">Online</Attribute> -->
        </Component>
    </Component>
    <Attribute Name="RAIDremoveControllerKey">False</Attribute>
</Component>
<Component FQDD="BIOS.Setup.1-1">
    <Attribute Name="SystemModelName">PowerEdge R620</Attribute>
    <Attribute Name="SystemBiosVersion">1.1.2</Attribute>
    <Attribute Name="SystemServiceTag">HPGBDV1</Attribute>
    <Attribute Name="SystemManufacturer">Dell Inc.</Attribute>
    <Attribute Name="SysMfrContactInfo">www.dell.com</Attribute>
    <Attribute Name="SysMemSize">64.0 GB</Attribute>
    <Attribute Name="SysMemType">ECC DDR3</Attribute>
    <Attribute Name="SysMemSpeed">1333 MHz</Attribute>
    <Attribute Name="SysMemVolt">1.35V</Attribute>
    <Attribute Name="VideoMem">16 MB</Attribute>
    <Attribute Name="MemTest">Enabled</Attribute>
    <Attribute Name="MemOpMode">OptimizerMode</Attribute>
    <Attribute Name="NodeInterleave">Disabled</Attribute>
    <Attribute Name="LogicalProc">Enabled</Attribute>
    <Attribute Name="QpiSpeed">MaxDataRate</Attribute>
    <Attribute Name="RtidSetting">Disabled</Attribute>
    <Attribute Name="ProcVirtualization">Enabled</Attribute>
    <Attribute Name="ProcAdjCacheLine">Enabled</Attribute>
    <Attribute Name="ProcHwPrefetcher">Enabled</Attribute>
    <Attribute Name="DcuStreamerPrefetcher">Enabled</Attribute>
    <Attribute Name="DcuIpPrefetcher">Enabled</Attribute>
    <Attribute Name="ProcExecuteDisable">Enabled</Attribute>
    <Attribute Name="ProcCores">All</Attribute>
    <Attribute Name="Proc64bit">Yes</Attribute>
    <Attribute Name="ProcCoreSpeed">2.00 GHz</Attribute>
    <Attribute Name="ProcBusSpeed">7.20 GT/s</Attribute>
    <Attribute Name="Proc1Id">06-2D-7</Attribute>
    <Attribute Name="Proc1Brand">[Intel(R) Xeon(R) CPU E5-2620 0 @ 2.00GHz
]</Attribute>
    <Attribute Name="Proc1L2Cache">6x256 KB</Attribute>
    <Attribute Name="Proc1L3Cache">15 MB</Attribute>
    <Attribute Name="Proc1NumCores">6</Attribute>
    <Attribute Name="Proc2Id">06-2D-7</Attribute>

```



```

    <Attribute Name="Proc2Brand">[Intel(R) Xeon(R) CPU E5-2620 0 @ 2.00GHz
]</Attribute>
    <Attribute Name="Proc2L2Cache">6x256 KB</Attribute>
    <Attribute Name="Proc2L3Cache">15 MB</Attribute>
    <Attribute Name="Proc2NumCores">6</Attribute>
    <Attribute Name="EmbSata">RaidMode</Attribute>
    <Attribute Name="SataPortA">Auto</Attribute>
    <Attribute Name="SataPortB">Auto</Attribute>
    <Attribute Name="SataPortC">Auto</Attribute>
    <Attribute Name="SataPortD">Auto</Attribute>
    <Attribute Name="SataPortE">Auto</Attribute>
    <Attribute Name="SataPortF">Auto</Attribute>
    <Attribute Name="BootMode">Uefi</Attribute>
    <Attribute Name="BootSeqRetry">Disabled</Attribute>
    <Attribute Name="OneTimeBootMode">Disabled</Attribute>
    <Attribute Name="OneTimeBootSeqDev">HardDisk.List.1-1</Attribute>
    <Attribute Name="OneTimeHddSeqDev">RAID.Slot.2-1</Attribute>
    <Attribute Name="OneTimeUefiBootSeqDev">Unknown.Unknown.1-1</Attribute>
    <Attribute Name="UsbPorts">AllOn</Attribute>
    <Attribute Name="InternalUsb">On</Attribute>
    <Attribute Name="IntegratedNetwork1">Enabled</Attribute>
    <Attribute Name="OsWatchdogTimer">Disabled</Attribute>
    <Attribute Name="EmbVideo">Enabled</Attribute>
    <Attribute Name="SriovGlobalEnable">Disabled</Attribute>
    <Attribute Name="Slot1">Enabled</Attribute>
    <Attribute Name="Slot2">Enabled</Attribute>
    <Attribute Name="Slot3">Enabled</Attribute>
    <Attribute Name="SerialComm">OnNoConRedir</Attribute>
    <Attribute Name="SerialPortAddress">Serial1Com2Serial2Com1</Attribute>
    <Attribute Name="ExtSerialConnector">Serial1</Attribute>
    <Attribute Name="FailSafeBaud">115200</Attribute>
    <Attribute Name="ConTermType">Vt100Vt220</Attribute>
    <Attribute Name="RedirAfterBoot">Enabled</Attribute>
    <Attribute Name="SysProfile">PerfPerWattOptimizedDapc</Attribute>
    <Attribute Name="ProcPwrPerf">SysDbpm</Attribute>
    <Attribute Name="MemFrequency">MaxPerf</Attribute>
    <Attribute Name="ProcTurboMode">Enabled</Attribute>
    <Attribute Name="ProcC1E">Enabled</Attribute>
    <Attribute Name="ProcCStates">Enabled</Attribute>
    <Attribute Name="MonitorMwait">Enabled</Attribute>
    <Attribute Name="MemPatrolScrub">Standard</Attribute>
    <Attribute Name="MemRefreshRate">1x</Attribute>
    <Attribute Name="MemVolt">AutoVolt</Attribute>
    <Attribute Name="AesNi">Enabled</Attribute>
    <!-- <Attribute Name="OldSysPassword">*****</Attribute> -->
    <!-- <Attribute Name="NewSysPassword">*****</Attribute> -->
    <!-- <Attribute Name="OldSetupPassword">*****</Attribute> -->
    <!-- <Attribute Name="NewSetupPassword">*****</Attribute> -->
    <Attribute Name="PasswordStatus">Unlocked</Attribute>
    <Attribute Name="TpmSecurity">Off</Attribute>
    <Attribute Name="TpmActivation">NoChange</Attribute>
    <Attribute Name="TpmStatus">Unknown</Attribute>
    <Attribute Name="TpmClear">No</Attribute>
    <Attribute Name="IntelTxt">Off</Attribute>
    <Attribute Name="PwrButton">Enabled</Attribute>
    <Attribute Name="NmiButton">Disabled</Attribute>

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<Attribute Name="AcPwrRcvry">Last</Attribute>
<Attribute Name="AcPwrRcvryDelay">Immediate</Attribute>
<Attribute Name="AcPwrRcvryUserDelay">60</Attribute>
<Attribute Name="AssetTag"></Attribute>
<Attribute Name="NumLock">On</Attribute>
<Attribute Name="ReportKbdErr">Report</Attribute>
<Attribute Name="ErrPrompt">Enabled</Attribute>
<Attribute Name="InSystemCharacterization">Enabled</Attribute>
<Attribute Name="BiosBootSeq">NIC.Integrated.1-1-1, RAID.Integrated.1-
1, HardDisk.List.1-1</Attribute>
  <!-- <Attribute Name="UefiBootSeq">Unknown.Unknown.1-1,
NIC.Integrated.1-1-1, NIC.Integrated.1-2-1, NIC.Integrated.1-3-1,
NIC.Integrated.1-4-1, NIC.Slot.3-1-1, NIC.Slot.3-2-1, RAID.Embedded.1-
1</Attribute> -->
  <!-- <Attribute Name="HddSeq">RAID.Slot.2-1</Attribute> -->
  <!-- <Attribute Name="OneTimeBootModeSeq"></Attribute> -->
</Component>

```

```

<Component FQDD="NIC.Slot.3-1-1">
  <Attribute Name="LinkStatus">Disconnected</Attribute>
  <Attribute Name="DeviceName">QLE8262 </Attribute>
  <Attribute Name="ChipMdl">NIC</Attribute>
  <Attribute Name="FamilyVersion">01.09.22</Attribute>
  <Attribute Name="MTUReconfigurationSupport">Unavailable</Attribute>
  <Attribute Name="VFSRIOVSupport">Unavailable</Attribute>
  <Attribute Name="AddressingMode">FPMA</Attribute>
  <Attribute Name="MaxFrameSize">2</Attribute>
  <Attribute Name="MaxIOsPerSession">4</Attribute>
  <Attribute Name="MaxNumberLogins">2</Attribute>
  <Attribute Name="MaxNumberExchanges">4</Attribute>
  <Attribute Name="MaxNPVPerPort">64</Attribute>
  <Attribute Name="MaxNumberOffFCTargets">2032</Attribute>
  <Attribute Name="MaxNumberOutStandingCommands">4</Attribute>
  <Attribute Name="NicPartitioning">Enabled</Attribute>
  <Attribute Name="PartitionState">Enabled</Attribute>
  <Attribute Name="NParNumberPartitions">4</Attribute>
  <Attribute Name="NumberPCIENFunctionsSupported">4</Attribute>
  <Attribute Name="NumberPCIENFunctionsEnabled">4</Attribute>
  <Attribute Name="NicMode">Enabled</Attribute>
  <Attribute Name="PCIDeviceID">8020</Attribute>
  <Attribute Name="BusDeviceFunction">05.00.00</Attribute>
  <Attribute Name="MacAddr">00:0E:1E:0C:4C:B0</Attribute>
  <!-- <Attribute Name="VirtMacAddr">00:0E:1E:0C:4C:B0</Attribute> -->
  <Attribute Name="DeviceClassCode">0200</Attribute>
  <Attribute Name="PortNumber">1</Attribute>
  <Attribute Name="InstanceNumber">1</Attribute>
  <Attribute Name="LegacyBootProto">PXE</Attribute>
  <Attribute Name="LnkSpeed">AutoNeg</Attribute>
  <Attribute Name="MinBandwidth">0</Attribute>
  <Attribute Name="MaxBandwidth">100</Attribute>
  <Attribute Name="TcpIpViaDHCP">Disabled</Attribute>
  <Attribute Name="IscsiViaDHCP">Disabled</Attribute>
  <Attribute Name="ChapAuthEnable">Disabled</Attribute>
  <Attribute Name="ChapMutualAuth">Disabled</Attribute>
  <Attribute Name="IpVer">IPv4</Attribute>
  <Attribute Name="IscsiTgtBoot">Disabled</Attribute>

```



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    <Attribute Name="DhcpVendId"></Attribute>
    <!-- <Attribute Name="IscsiInitiatorIpAddr">0.0.0.0</Attribute> -->
    <!-- <Attribute Name="IscsiInitiatorSubnet">0.0.0.0</Attribute> -->
    <!-- <Attribute Name="IscsiInitiatorGateway">0.0.0.0</Attribute> -->
    <!-- <Attribute Name="IscsiInitiatorName">iqn.2000-
04.com.qlogic:isp8214.000E1E0C4CB4.4</Attribute> -->
    <!-- <Attribute Name="IscsiInitiatorChapId"></Attribute> -->
    <!-- <Attribute Name="IscsiInitiatorChapPwd"></Attribute> -->
    <!-- <Attribute Name="FirstTgtIpAddress">0.0.0.0</Attribute> -->
    <!-- <Attribute Name="FirstTgtTcpPort">3260</Attribute> -->
    <!-- <Attribute Name="FirstTgtBootLun">0</Attribute> -->
    <!-- <Attribute Name="FirstTgtIscsiName"></Attribute> -->
    <!-- <Attribute Name="FirstTgtChapId"></Attribute> -->
    <!-- <Attribute Name="FirstTgtChapPwd"></Attribute> -->
    <!-- <Attribute Name="SecondTgtIpAddress">0.0.0.0</Attribute> -->
    <!-- <Attribute Name="SecondTgtTcpPort">3260</Attribute> -->
    <!-- <Attribute Name="SecondTgtBootLun">0</Attribute> -->
    <!-- <Attribute Name="SecondTgtIscsiName"></Attribute> -->
    <!-- <Attribute Name="SecondTgtChapId"></Attribute> -->
    <!-- <Attribute Name="SecondTgtChapPwd"></Attribute> -->
    <!-- <Attribute Name="ConnectFirstFCoETarget">Disabled</Attribute> -->
    <!-- <Attribute Name="FirstFCoEBootTargetLUN">0</Attribute> -->
    <!-- <Attribute Name="FirstFCoEWPNTarget">0000000000000000</Attribute>
-->
</Component>
<Component FQDD="NIC.Slot.3-1-2">
    <Attribute Name="NicMode">Disabled</Attribute>
    <Attribute Name="PCIDeviceID">8020</Attribute>
    <Attribute Name="BusDeviceFunction">05.00.02</Attribute>
    <Attribute Name="MacAddr">00:0E:1E:0C:4C:B2</Attribute>
    <!-- <Attribute Name="VirtMacAddr">00:0E:1E:0C:4C:B2</Attribute> -->
    <Attribute Name="DeviceClassCode">0200</Attribute>
    <Attribute Name="PortNumber">1</Attribute>
    <Attribute Name="InstanceNumber">2</Attribute>
    <Attribute Name="MinBandwidth">0</Attribute>
    <Attribute Name="MaxBandwidth">100</Attribute>
</Component>
<Component FQDD="NIC.Slot.3-1-3">
    <Attribute Name="NicMode">Disabled</Attribute>
    <Attribute Name="iScsiOffloadMode">Disabled</Attribute>
    <Attribute Name="PCIDeviceID">8020</Attribute>
    <Attribute Name="BusDeviceFunction">05.00.04</Attribute>
    <Attribute Name="MacAddr">00:0E:1E:0C:4C:B4</Attribute>
    <!-- <Attribute Name="VirtMacAddr">00:0E:1E:0C:4C:B4</Attribute> -->
    <Attribute Name="IscsiMacAddr">00:0E:1E:0C:4C:B4</Attribute>
    <!-- <Attribute Name="VirtIscsiMacAddr">00:0E:1E:0C:4C:B4</Attribute> -
->
    <Attribute Name="DeviceClassCode">0200</Attribute>
    <Attribute Name="PortNumber">1</Attribute>
    <Attribute Name="InstanceNumber">3</Attribute>
    <Attribute Name="MinBandwidth">0</Attribute>
    <Attribute Name="MaxBandwidth">100</Attribute>
</Component>
<Component FQDD="NIC.Slot.3-1-4">
    <Attribute Name="NicMode">Disabled</Attribute>
    <Attribute Name="FCoEOffloadMode">Disabled</Attribute>

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<Attribute Name="PCIDeviceID">8020</Attribute>
<Attribute Name="BusDeviceFunction">05.00.06</Attribute>
<Attribute Name="MacAddr">00:0E:1E:0C:4C:B6</Attribute>
<!-- <Attribute Name="VirtMacAddr">00:0E:1E:0C:4C:B6</Attribute> -->
<Attribute Name="FIPMacAddr">00:0E:1E:0C:4C:B6</Attribute>
<!-- <Attribute Name="VirtFIPMacAddr">00:0E:1E:0C:4C:B6</Attribute> -->
<Attribute Name="DeviceClassCode">0200</Attribute>
<Attribute Name="PortNumber">1</Attribute>
<Attribute Name="InstanceNumber">4</Attribute>
<Attribute Name="MinBandwidth">0</Attribute>
<Attribute Name="MaxBandwidth">100</Attribute>
<Attribute Name="WWN">20:00:00:0E:1E:0C:4C:B6</Attribute>
<!-- <Attribute Name="VirtWWN">20:00:00:0E:1E:0C:4C:B6</Attribute> -->
<!-- <Attribute Name="WWPN">20:01:00:0E:1E:0C:4C:B6</Attribute> -->
<!-- <Attribute Name="VirtWWPN">20:01:00:0E:1E:0C:4C:B6</Attribute> -->
</Component>
<Component FQDD="NIC.Slot.3-2-1">
<Attribute Name="LinkStatus">Disconnected</Attribute>
<Attribute Name="DeviceName">QLE8262 </Attribute>
<Attribute Name="ChipMdl">NIC</Attribute>
<Attribute Name="FamilyVersion">01.09.22</Attribute>
<Attribute Name="MTUReconfigurationSupport">Unavailable</Attribute>
<Attribute Name="VFSRIOVSupport">Unavailable</Attribute>
<Attribute Name="AddressingMode">FPMA</Attribute>
<Attribute Name="MaxFrameSize">2</Attribute>
<Attribute Name="MaxIOsPerSession">4</Attribute>
<Attribute Name="MaxNumberLogins">2</Attribute>
<Attribute Name="MaxNumberExchanges">4</Attribute>
<Attribute Name="MaxNPVPerPort">64</Attribute>
<Attribute Name="MaxNumberOfCTargets">2032</Attribute>
<Attribute Name="MaxNumberOutStandingCommands">4</Attribute>
<Attribute Name="NicPartitioning">Enabled</Attribute>
<Attribute Name="PartitionState">Enabled</Attribute>
<Attribute Name="NParNumberPartitions">4</Attribute>
<Attribute Name="NumberPCIENFunctionsSupported">4</Attribute>
<Attribute Name="NumberPCIENFunctionsEnabled">4</Attribute>
<Attribute Name="NicMode">Enabled</Attribute>
<Attribute Name="PCIDeviceID">8020</Attribute>
<Attribute Name="BusDeviceFunction">05.00.01</Attribute>
<Attribute Name="MacAddr">00:0E:1E:0C:4C:B1</Attribute>
<!-- <Attribute Name="VirtMacAddr">00:0E:1E:0C:4C:B1</Attribute> -->
<Attribute Name="DeviceClassCode">0200</Attribute>
<Attribute Name="PortNumber">2</Attribute>
<Attribute Name="InstanceNumber">1</Attribute>
<Attribute Name="LegacyBootProto">PXE</Attribute>
<Attribute Name="LnkSpeed">AutoNeg</Attribute>
<Attribute Name="MinBandwidth">0</Attribute>
<Attribute Name="MaxBandwidth">100</Attribute>
<Attribute Name="TcpIpViaDHCP">Disabled</Attribute>
<Attribute Name="IscsiViaDHCP">Disabled</Attribute>
<Attribute Name="ChapAuthEnable">Disabled</Attribute>
<Attribute Name="ChapMutualAuth">Disabled</Attribute>
<Attribute Name="IpVer">IPv4</Attribute>
<Attribute Name="IscsiTgtBoot">Disabled</Attribute>
<Attribute Name="DhcpVendId"></Attribute>
<!-- <Attribute Name="IscsiInitiatorIpAddr">0.0.0</Attribute> -->

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    <!-- <Attribute Name="IscsiInitiatorSubnet">0.0.0.</Attribute> -->
    <!-- <Attribute Name="IscsiInitiatorGateway">0.0.0.</Attribute> -->
    <!-- <Attribute Name="IscsiInitiatorName">iqn.2000-
04.com.qlogic:isp8214.000E1E0C4CB5.5</Attribute> -->
    <!-- <Attribute Name="IscsiInitiatorChapId"></Attribute> -->
    <!-- <Attribute Name="IscsiInitiatorChapPwd"></Attribute> -->
    <!-- <Attribute Name="FirstTgtIpAddress">0.0.0.</Attribute> -->
    <!-- <Attribute Name="FirstTgtTcpPort">3260</Attribute> -->
    <!-- <Attribute Name="FirstTgtBootLun">0</Attribute> -->
    <!-- <Attribute Name="FirstTgtIscsiName"></Attribute> -->
    <!-- <Attribute Name="FirstTgtChapId"></Attribute> -->
    <!-- <Attribute Name="FirstTgtChapPwd"></Attribute> -->
    <!-- <Attribute Name="SecondTgtIpAddress">0.0.0.</Attribute> -->
    <!-- <Attribute Name="SecondTgtTcpPort">3260</Attribute> -->
    <!-- <Attribute Name="SecondTgtBootLun">0</Attribute> -->
    <!-- <Attribute Name="SecondTgtIscsiName"></Attribute> -->
    <!-- <Attribute Name="SecondTgtChapId"></Attribute> -->
    <!-- <Attribute Name="SecondTgtChapPwd"></Attribute> -->
    <!-- <Attribute Name="ConnectFirstFCoETarget">Disabled</Attribute> -->
    <!-- <Attribute Name="FirstFCoEBootTargetLUN">0</Attribute> -->
    <!-- <Attribute Name="FirstFCoEWPNTarget">0000000000000000</Attribute>
-->
</Component>
<Component FQDD="NIC.Slot.3-2-2">
  <Attribute Name="NicMode">Disabled</Attribute>
  <Attribute Name="PCIDeviceID">8020</Attribute>
  <Attribute Name="BusDeviceFunction">05.00.03</Attribute>
  <Attribute Name="MacAddr">00:0E:1E:0C:4C:B3</Attribute>
  <!-- <Attribute Name="VirtMacAddr">00:0E:1E:0C:4C:B3</Attribute> -->
  <Attribute Name="DeviceClassCode">0200</Attribute>
  <Attribute Name="PortNumber">2</Attribute>
  <Attribute Name="InstanceNumber">2</Attribute>
  <Attribute Name="MinBandwidth">0</Attribute>
  <Attribute Name="MaxBandwidth">100</Attribute>
</Component>
<Component FQDD="NIC.Slot.3-2-3">
  <Attribute Name="NicMode">Disabled</Attribute>
  <Attribute Name="iScsiOffloadMode">Disabled</Attribute>
  <Attribute Name="PCIDeviceID">8020</Attribute>
  <Attribute Name="BusDeviceFunction">05.00.05</Attribute>
  <Attribute Name="MacAddr">00:0E:1E:0C:4C:B5</Attribute>
  <!-- <Attribute Name="VirtMacAddr">00:0E:1E:0C:4C:B5</Attribute> -->
  <Attribute Name="IscsiMacAddr">00:0E:1E:0C:4C:B5</Attribute>
  <!-- <Attribute Name="VirtIscsiMacAddr">00:0E:1E:0C:4C:B5</Attribute> -
->
  <Attribute Name="DeviceClassCode">0200</Attribute>
  <Attribute Name="PortNumber">2</Attribute>
  <Attribute Name="InstanceNumber">3</Attribute>
  <Attribute Name="MinBandwidth">0</Attribute>
  <Attribute Name="MaxBandwidth">100</Attribute>
</Component>
<Component FQDD="NIC.Slot.3-2-4">
  <Attribute Name="NicMode">Disabled</Attribute>
  <Attribute Name="FCoEOffloadMode">Disabled</Attribute>
  <Attribute Name="PCIDeviceID">8020</Attribute>
  <Attribute Name="BusDeviceFunction">05.00.07</Attribute>

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<Attribute Name="MacAddr">00:0E:1E:0C:4C:B7</Attribute>
<!-- <Attribute Name="VirtMacAddr">00:0E:1E:0C:4C:B7</Attribute> -->
<Attribute Name="FIPMacAddr">00:0E:1E:0C:4C:B7</Attribute>
<!-- <Attribute Name="VirtFIPMacAddr">00:0E:1E:0C:4C:B7</Attribute> -->
<Attribute Name="DeviceClassCode">0200</Attribute>
<Attribute Name="PortNumber">2</Attribute>
<Attribute Name="InstanceNumber">4</Attribute>
<Attribute Name="MinBandwidth">0</Attribute>
<Attribute Name="MaxBandwidth">100</Attribute>
<Attribute Name="WWN">20:00:00:0E:1E:0C:4C:B7</Attribute>
<!-- <Attribute Name="VirtWWN">20:00:00:0E:1E:0C:4C:B7</Attribute> -->
<!-- <Attribute Name="WWPN">20:01:00:0E:1E:0C:4C:B7</Attribute> -->
<!-- <Attribute Name="VirtWWPN">20:01:00:0E:1E:0C:4C:B7</Attribute> -->
</Component>
<Component FQDD="NIC.Integrated.1-3-1">
  <Attribute Name="BlkLeds">0</Attribute>
  <Attribute Name="ChipMdl">BCM5720 A0</Attribute>
  <Attribute Name="PCIDeviceID">165F</Attribute>
  <Attribute Name="BusDeviceFunction">02:00:00</Attribute>
  <Attribute Name="LinkStatus">DOWN</Attribute>
  <Attribute Name="MacAddr">D4:AE:52:94:CA:70</Attribute>
  <!-- <Attribute Name="VirtMacAddr">D4:AE:52:94:CA:70</Attribute> -->
  <Attribute Name="FCoEOffloadSupport">Unavailable</Attribute>
  <Attribute Name="iSCSIOffloadSupport">Unavailable</Attribute>
  <Attribute Name="iSCSIBootSupport">Available</Attribute>
  <Attribute Name="PXEBootSupport">Available</Attribute>
  <Attribute Name="FCoEBootSupport">Unavailable</Attribute>
  <Attribute Name="NicPartitioningSupport">Unavailable</Attribute>
  <Attribute Name="TXBandwidthControlMaximum">Unavailable</Attribute>
  <Attribute Name="TXBandwidthControlMinimum">Unavailable</Attribute>
  <Attribute Name="TcpIpViaDHCP">Enabled</Attribute>
  <Attribute Name="IpAutoConfig">Enabled</Attribute>
  <Attribute Name="IscsiViaDHCP">Enabled</Attribute>
  <Attribute Name="ChapAuthEnable">Disabled</Attribute>
  <Attribute Name="IscsiTgtBoot">Enabled</Attribute>
  <Attribute Name="DhcpVendId">BRCM ISAN</Attribute>
  <Attribute Name="LnkUpDelayTime">0</Attribute>
  <Attribute Name="TcpTimestmp">Disabled</Attribute>
  <Attribute Name="FirstHddTarget">Disabled</Attribute>
  <Attribute Name="LunBusyRetryCnt">0</Attribute>
  <Attribute Name="IpVer">IPv4</Attribute>
  <!-- <Attribute Name="IscsiInitiatorIpAddr">0.0.0</Attribute> -->
  <!-- <Attribute Name="IscsiInitiatorSubnet">0.0.0</Attribute> -->
  <!-- <Attribute Name="IscsiInitiatorSubnetPrefix"></Attribute> -->
  <!-- <Attribute Name="IscsiInitiatorGateway">0.0.0</Attribute> -->
  <!-- <Attribute Name="IscsiInitiatorPrimDns">0.0.0</Attribute> -->
  <!-- <Attribute Name="IscsiInitiatorSecDns">0.0.0</Attribute> -->
  <!-- <Attribute Name="IscsiInitiatorName">iqn.1995-
05.com.broadcom.iscsiboot</Attribute> -->
  <!-- <Attribute Name="IscsiInitiatorChapId"></Attribute> -->
  <!-- <Attribute Name="IscsiInitiatorChapPwd"></Attribute> -->
  <!-- <Attribute Name="ConnectFirstTgt">Disabled</Attribute> -->
  <!-- <Attribute Name="FirstTgtIpAddress">0.0.0</Attribute> -->
  <!-- <Attribute Name="FirstTgtTcpPort">3260</Attribute> -->
  <!-- <Attribute Name="FirstTgtBootLun">0</Attribute> -->
  <!-- <Attribute Name="FirstTgtIscsiName"></Attribute> -->

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```

<!-- <Attribute Name="FirstTgtChapId"></Attribute> -->
<!-- <Attribute Name="FirstTgtChapPwd"></Attribute> -->
<!-- <Attribute Name="ConnectSecondTgt">Disabled</Attribute> -->
<!-- <Attribute Name="SecondTgtIpAddress">0.0.0</Attribute> -->
<!-- <Attribute Name="SecondTgtTcpPort">3260</Attribute> -->
<!-- <Attribute Name="SecondTgtBootLun">0</Attribute> -->
<!-- <Attribute Name="SecondTgtIscsiName"></Attribute> -->
<!-- <Attribute Name="SecondTgtChapId"></Attribute> -->
<!-- <Attribute Name="SecondTgtChapPwd"></Attribute> -->
<Attribute Name="LegacyBootProto">NONE</Attribute>
<Attribute Name="LnkSpeed">AutoNeg</Attribute>
<Attribute Name="WakeOnLan">Disabled</Attribute>
<Attribute Name="VlanMode">Disabled</Attribute>
<Attribute Name="VlanId">1</Attribute>
<Attribute Name="FamilyVersion">7.0.48</Attribute>
<Attribute Name="ControllerBIOSVersion">1.17</Attribute>
<Attribute Name="EFIVersion">15.0.19</Attribute>
<!-- <Attribute
Name="SecondaryDeviceMacAddr">00:00:00:00:00:00</Attribute> -->
<!-- <Attribute Name="UseIndTgtPortal">Disabled</Attribute> -->
<!-- <Attribute Name="UseIndTgtName">Disabled</Attribute> -->
</Component>
<Component FQDD="NIC.Integrated.1-4-1">
<Attribute Name="BlnkLeds">0</Attribute>
<Attribute Name="ChipMdl">BCM5720 A0</Attribute>
<Attribute Name="PCIDeviceID">165F</Attribute>
<Attribute Name="BusDeviceFunction">02:00:01</Attribute>
<Attribute Name="LinkStatus">DOWN</Attribute>
<Attribute Name="MacAddr">D4:AE:52:94:CA:71</Attribute>
<!-- <Attribute Name="VirtMacAddr">D4:AE:52:94:CA:71</Attribute> -->
<Attribute Name="FCoEOffloadSupport">Unavailable</Attribute>
<Attribute Name="iSCSIOffloadSupport">Unavailable</Attribute>
<Attribute Name="iSCSIBootSupport">Available</Attribute>
<Attribute Name="PXEBootSupport">Available</Attribute>
<Attribute Name="FCoEBootSupport">Unavailable</Attribute>
<Attribute Name="NicPartitioningSupport">Unavailable</Attribute>
<Attribute Name="TXBandwidthControlMaximum">Unavailable</Attribute>
<Attribute Name="TXBandwidthControlMinimum">Unavailable</Attribute>
<Attribute Name="TcpIpViaDHCP">Enabled</Attribute>
<Attribute Name="IpAutoConfig">Enabled</Attribute>
<Attribute Name="IscsiViaDHCP">Enabled</Attribute>
<Attribute Name="ChapAuthEnable">Disabled</Attribute>
<Attribute Name="IscsiTgtBoot">Enabled</Attribute>
<Attribute Name="DhcpVendId">BRCM ISAN</Attribute>
<Attribute Name="LnkUpDelayTime">0</Attribute>
<Attribute Name="TcpTimestmp">Disabled</Attribute>
<Attribute Name="FirstHddTarget">Disabled</Attribute>
<Attribute Name="LunBusyRetryCnt">0</Attribute>
<Attribute Name="IpVer">IPv4</Attribute>
<!-- <Attribute Name="IscsiInitiatorIpAddr">0.0.0</Attribute> -->
<!-- <Attribute Name="IscsiInitiatorSubnet">0.0.0</Attribute> -->
<!-- <Attribute Name="IscsiInitiatorSubnetPrefix"></Attribute> -->
<!-- <Attribute Name="IscsiInitiatorGateway">0.0.0</Attribute> -->
<!-- <Attribute Name="IscsiInitiatorPrimDns">0.0.0</Attribute> -->
<!-- <Attribute Name="IscsiInitiatorSecDns">0.0.0</Attribute> -->

```



```

    <!-- <Attribute Name="IscsiInitiatorName">iqn.1995-
05.com.broadcom.iscsiboot</Attribute> -->
    <!-- <Attribute Name="IscsiInitiatorChapId"></Attribute> -->
    <!-- <Attribute Name="IscsiInitiatorChapPwd"></Attribute> -->
    <!-- <Attribute Name="ConnectFirstTgt">Disabled</Attribute> -->
    <!-- <Attribute Name="FirstTgtIpAddress">0.0.0.0</Attribute> -->
    <!-- <Attribute Name="FirstTgtTcpPort">3260</Attribute> -->
    <!-- <Attribute Name="FirstTgtBootLun">0</Attribute> -->
    <!-- <Attribute Name="FirstTgtIscsiName"></Attribute> -->
    <!-- <Attribute Name="FirstTgtChapId"></Attribute> -->
    <!-- <Attribute Name="FirstTgtChapPwd"></Attribute> -->
    <!-- <Attribute Name="ConnectSecondTgt">Disabled</Attribute> -->
    <!-- <Attribute Name="SecondTgtIpAddress">0.0.0.0</Attribute> -->
    <!-- <Attribute Name="SecondTgtTcpPort">3260</Attribute> -->
    <!-- <Attribute Name="SecondTgtBootLun">0</Attribute> -->
    <!-- <Attribute Name="SecondTgtIscsiName"></Attribute> -->
    <!-- <Attribute Name="SecondTgtChapId"></Attribute> -->
    <!-- <Attribute Name="SecondTgtChapPwd"></Attribute> -->
    <Attribute Name="LegacyBootProto">NONE</Attribute>
    <Attribute Name="LnkSpeed">AutoNeg</Attribute>
    <Attribute Name="WakeOnLan">Disabled</Attribute>
    <Attribute Name="VlanMode">Disabled</Attribute>
    <Attribute Name="VlanId">1</Attribute>
    <Attribute Name="FamilyVersion">7.0.48</Attribute>
    <Attribute Name="ControllerBIOSVersion">1.17</Attribute>
    <Attribute Name="EFIVersion">15.0.19</Attribute>
    <!-- <Attribute
Name="SecondaryDeviceMacAddr">00:00:00:00:00:00</Attribute> -->
    <!-- <Attribute Name="UseIndTgtPortal">Disabled</Attribute> -->
    <!-- <Attribute Name="UseIndTgtName">Disabled</Attribute> -->
</Component>
<Component FQDD="NIC.Integrated.1-1-1">
    <Attribute Name="BlkLeds">0</Attribute>
    <Attribute Name="ChipMdl">BCM5720 A0</Attribute>
    <Attribute Name="PCIDeviceID">165F</Attribute>
    <Attribute Name="BusDeviceFunction">01:00:00</Attribute>
    <Attribute Name="LinkStatus">DOWN</Attribute>
    <Attribute Name="MacAddr">D4:AE:52:94:CA:6E</Attribute>
    <!-- <Attribute Name="VirtMacAddr">D4:AE:52:94:CA:6E</Attribute> -->
    <Attribute Name="FCoEOffloadSupport">Unavailable</Attribute>
    <Attribute Name="iSCSIOffloadSupport">Unavailable</Attribute>
    <Attribute Name="iSCSIBootSupport">Available</Attribute>
    <Attribute Name="PXEBootSupport">Available</Attribute>
    <Attribute Name="FCoEBootSupport">Unavailable</Attribute>
    <Attribute Name="NicPartitioningSupport">Unavailable</Attribute>
    <Attribute Name="TXBandwidthControlMaximum">Unavailable</Attribute>
    <Attribute Name="TXBandwidthControlMinimum">Unavailable</Attribute>
    <Attribute Name="TcpIpViaDHCP">Enabled</Attribute>
    <Attribute Name="IpAutoConfig">Enabled</Attribute>
    <Attribute Name="IscsiViaDHCP">Enabled</Attribute>
    <Attribute Name="ChapAuthEnable">Disabled</Attribute>
    <Attribute Name="IscsiTgtBoot">Enabled</Attribute>
    <Attribute Name="DhcpVendId">BRCM ISAN</Attribute>
    <Attribute Name="LnkUpDelayTime">0</Attribute>
    <Attribute Name="TcpTimestmp">Disabled</Attribute>
    <Attribute Name="FirstHddTarget">Disabled</Attribute>

```



```

<Attribute Name="LunBusyRetryCnt">0</Attribute>
<Attribute Name="IpVer">IPv4</Attribute>
<!-- <Attribute Name="IscsiInitiatorIpAddr">0.0.0.0</Attribute> -->
<!-- <Attribute Name="IscsiInitiatorSubnet">0.0.0.0</Attribute> -->
<!-- <Attribute Name="IscsiInitiatorSubnetPrefix"></Attribute> -->
<!-- <Attribute Name="IscsiInitiatorGateway">0.0.0.0</Attribute> -->
<!-- <Attribute Name="IscsiInitiatorPrimDns">0.0.0.0</Attribute> -->
<!-- <Attribute Name="IscsiInitiatorSecDns">0.0.0.0</Attribute> -->
<!-- <Attribute Name="IscsiInitiatorName">iqn.1995-
05.com.broadcom.iscsiboot</Attribute> -->
<!-- <Attribute Name="IscsiInitiatorChapId"></Attribute> -->
<!-- <Attribute Name="IscsiInitiatorChapPwd"></Attribute> -->
<!-- <Attribute Name="ConnectFirstTgt">Disabled</Attribute> -->
<!-- <Attribute Name="FirstTgtIpAddress">0.0.0.0</Attribute> -->
<!-- <Attribute Name="FirstTgtTcpPort">3260</Attribute> -->
<!-- <Attribute Name="FirstTgtBootLun">0</Attribute> -->
<!-- <Attribute Name="FirstTgtIscsiName"></Attribute> -->
<!-- <Attribute Name="FirstTgtChapId"></Attribute> -->
<!-- <Attribute Name="FirstTgtChapPwd"></Attribute> -->
<!-- <Attribute Name="ConnectSecondTgt">Disabled</Attribute> -->
<!-- <Attribute Name="SecondTgtIpAddress">0.0.0.0</Attribute> -->
<!-- <Attribute Name="SecondTgtTcpPort">3260</Attribute> -->
<!-- <Attribute Name="SecondTgtBootLun">0</Attribute> -->
<!-- <Attribute Name="SecondTgtIscsiName"></Attribute> -->
<!-- <Attribute Name="SecondTgtChapId"></Attribute> -->
<!-- <Attribute Name="SecondTgtChapPwd"></Attribute> -->
<Attribute Name="LegacyBootProto">PXE</Attribute>
<Attribute Name="LnkSpeed">AutoNeg</Attribute>
<Attribute Name="WakeOnLan">Disabled</Attribute>
<Attribute Name="VlanMode">Disabled</Attribute>
<Attribute Name="VlanId">1</Attribute>
<Attribute Name="FamilyVersion">7.0.48</Attribute>
<Attribute Name="ControllerBIOSVersion">1.17</Attribute>
<Attribute Name="EFIVersion">15.0.19</Attribute>
<!-- <Attribute
Name="SecondaryDeviceMacAddr">00:00:00:00:00:00</Attribute> -->
<!-- <Attribute Name="UseIndTgtPortal">Disabled</Attribute> -->
<!-- <Attribute Name="UseIndTgtName">Disabled</Attribute> -->
</Component>
<Component FQDD="NIC.Integrated.1-2-1">
<Attribute Name="BlkLeds">0</Attribute>
<Attribute Name="ChipMdl">BCM5720 A0</Attribute>
<Attribute Name="PCIDeviceID">165F</Attribute>
<Attribute Name="BusDeviceFunction">01:00:01</Attribute>
<Attribute Name="LinkStatus">UP</Attribute>
<Attribute Name="MacAddr">D4:AE:52:94:CA:6F</Attribute>
<!-- <Attribute Name="VirtMacAddr">D4:AE:52:94:CA:6F</Attribute> -->
<Attribute Name="FCoEOffloadSupport">Unavailable</Attribute>
<Attribute Name="iSCSIOffloadSupport">Unavailable</Attribute>
<Attribute Name="iSCSIBootSupport">Available</Attribute>
<Attribute Name="PXEBootSupport">Available</Attribute>
<Attribute Name="FCoEBootSupport">Unavailable</Attribute>
<Attribute Name="NicPartitioningSupport">Unavailable</Attribute>
<Attribute Name="TXBandwidthControlMaximum">Unavailable</Attribute>
<Attribute Name="TXBandwidthControlMinimum">Unavailable</Attribute>
<Attribute Name="TcpIpViaDHCP">Enabled</Attribute>

```



```

<Attribute Name="IpAutoConfig">Enabled</Attribute>
<Attribute Name="IscsiViaDHCP">Enabled</Attribute>
<Attribute Name="ChapAuthEnable">Disabled</Attribute>
<Attribute Name="IscsiTgtBoot">Enabled</Attribute>
<Attribute Name="DhcpVendId">BRCM ISAN</Attribute>
<Attribute Name="LnkUpDelayTime">0</Attribute>
<Attribute Name="TcpTimestmp">Disabled</Attribute>
<Attribute Name="FirstHddTarget">Disabled</Attribute>
<Attribute Name="LunBusyRetryCnt">0</Attribute>
<Attribute Name="IpVer">IPv4</Attribute>
<!-- <Attribute Name="IscsiInitiatorIpAddr">0.0.0.0</Attribute> -->
<!-- <Attribute Name="IscsiInitiatorSubnet">0.0.0.0</Attribute> -->
<!-- <Attribute Name="IscsiInitiatorSubnetPrefix"></Attribute> -->
<!-- <Attribute Name="IscsiInitiatorGateway">0.0.0.0</Attribute> -->
<!-- <Attribute Name="IscsiInitiatorPrimDns">0.0.0.0</Attribute> -->
<!-- <Attribute Name="IscsiInitiatorSecDns">0.0.0.0</Attribute> -->
<!-- <Attribute Name="IscsiInitiatorName">iqn.1995-
05.com.broadcom.iscsiboot</Attribute> -->
<!-- <Attribute Name="IscsiInitiatorChapId"></Attribute> -->
<!-- <Attribute Name="IscsiInitiatorChapPwd"></Attribute> -->
<!-- <Attribute Name="ConnectFirstTgt">Disabled</Attribute> -->
<!-- <Attribute Name="FirstTgtIpAddress">0.0.0.0</Attribute> -->
<!-- <Attribute Name="FirstTgtTcpPort">3260</Attribute> -->
<!-- <Attribute Name="FirstTgtBootLun">0</Attribute> -->
<!-- <Attribute Name="FirstTgtIscsiName"></Attribute> -->
<!-- <Attribute Name="FirstTgtChapId"></Attribute> -->
<!-- <Attribute Name="FirstTgtChapPwd"></Attribute> -->
<!-- <Attribute Name="ConnectSecondTgt">Disabled</Attribute> -->
<!-- <Attribute Name="SecondTgtIpAddress">0.0.0.0</Attribute> -->
<!-- <Attribute Name="SecondTgtTcpPort">3260</Attribute> -->
<!-- <Attribute Name="SecondTgtBootLun">0</Attribute> -->
<!-- <Attribute Name="SecondTgtIscsiName"></Attribute> -->
<!-- <Attribute Name="SecondTgtChapId"></Attribute> -->
<!-- <Attribute Name="SecondTgtChapPwd"></Attribute> -->
<Attribute Name="LegacyBootProto">NONE</Attribute>
<Attribute Name="LnkSpeed">AutoNeg</Attribute>
<Attribute Name="WakeOnLan">Disabled</Attribute>
<Attribute Name="VlanMode">Disabled</Attribute>
<Attribute Name="VlanId">1</Attribute>
<Attribute Name="FamilyVersion">7.0.48</Attribute>
<Attribute Name="ControllerBIOSVersion">1.17</Attribute>
<Attribute Name="EFIVersion">15.0.19</Attribute>
<!-- <Attribute
Name="SecondaryDeviceMacAddr">00:00:00:00:00:00</Attribute> -->
<!-- <Attribute Name="UseIndTgtPortal">Disabled</Attribute> -->
<!-- <Attribute Name="UseIndTgtName">Disabled</Attribute> -->
</Component>

<Component FQDD="FC.Slot.4-1">
<!-- <Attribute Name="VirtualWWN">20:00:00:00:C9:D1:A9:7E</Attribute> -
->
<!-- <Attribute Name="VirtualWWPN">10:00:00:00:C9:D1:A9:7E</Attribute>
-->
<Attribute Name="PortLoginTimeout">256</Attribute>
<Attribute Name="PortSpeed">Auto</Attribute>
<!-- <Attribute Name="BootScanSelection">Disabled</Attribute> -->

```



```

    <!-- <Attribute
Name="FirstFCTargetWWPN">00:00:00:00:00:00:00:00</Attribute> -->
    <!-- <Attribute
Name="SecondFCTargetWWPN">00:00:00:00:00:00:00:00</Attribute> -->
    <!-- <Attribute Name="FirstFCTargetLUN">0</Attribute> -->
    <!-- <Attribute Name="SecondFCTargetLUN">0</Attribute> -->
</Component>
</SystemConfiguration>

```

The various components are **highlighted** in the snapshot. As can be seen, each component section lists the configuration information as attributes and values.

If there are no FC or NIC cards or storage adapters on the system, the snapshot would contain a line as below, identifying the component that is not present.

```

<!--Exported configuration does not contain FC-HBA data as the presence of
the appropriate cards could not be detected!-->

```

Not all attributes are expected on all systems. This is dependent on the specific components present in the system and their configuration. Accordingly, some attributes may not show up or may show up as commented in the XML.

The snapshot also contains some metadata information, such as the time when the snapshot was captured, the Service Tag and Model of the system on which the snapshot was captured.

The schema document listed in the Learn more section contains an XSD for the System Configuration XML and explains the various elements in detail.

## Commented Attributes

As can be seen from the snapshot sample, some attributes are commented out on an export.

There are multiple reasons for attributes being commented out.

1. Some attributes may cause an unintended side effect when applied as is or can be destructive when applied across different systems. In these cases, the attributes are commented out to put the onus on the user to intentionally uncomment these attributes, if the intent is to make changes to these settings. Some examples are: LifecycleControllerState, OldControllerKey, User Password, BIOS system and Setup Passwords.
2. Attributes may have dependencies on other attributes. If attribute B is dependent on attribute A, and the current value of attribute A does not allow attribute B to be settable, then attribute B is commented out on an export. Some examples are: the PowerCapSetting cannot be changed unless the PowerCapEnable attribute was Enabled, the UserDefinedString for LCD configuration cannot be set unless the Configuration attribute allows for this (Configuration should be user defined and so on). Attributes that are



commented out based on a parent dependency are system dependent and therefore not listed in the tables below.

3. Some of the RAID configuration is geared toward specific workflows, such as creating a virtual drive, setting controller encryption etc. These attributes are exported commented, as they do not represent anything meaningful unless they are used in the context of the workflow. If the user intends to exercise these workflows, these attributes must be uncommented and appropriate values should be provided.
4. Some attributes require specific iDRAC feature license bits to be enabled. In general, most of the feature bits are enabled in the “Enterprise” licenses, but some are not enabled for the “Express” or the “Basic” licenses. If the current license indicates that the feature bit corresponding to a given configuration is not enabled, the attribute is commented out on export.
5. I/O identity, authentication properties (such as user passwords), controller security attributes (such as LKM and DKM keys) are commented out. The list of commented attributes is listed below for various components.

**Table 1 – I/O Identity Attributes that are commented out**

Attribute Display Name	Attribute Name
Virtual FIP Mac Address	VirtFIPMacAddr
Virtual iSCSI MAC Address	VirtIscsiMacAddr
Virtual MAC Address	VirtMacAddr
Virtual World Wide Name	VirtualWWN
World Wide Port Name	WWPN
Virtual World Wide Port Name	VirtualWWPN

**Table 2 – iSCSI Initiator Parameters that are commented out**

Attribute Display Name	Attribute Name
IP Address	IscsiInitiatorIpAddr
IPv4 Address	IscsiInitiatorIpv4Addr



Attribute Display Name	Attribute Name
IPv6 Address	IscsiInitiatorIpv6Addr
Subnet Mask	IscsiInitiatorSubnet
Subnet Mask Prefix	IscsiInitiatorSubnetPrefix
Default Gateway	IscsiInitiatorGateway
IPv4 Default Gateway	IscsiInitiatorIpv4Gateway
IPv6 Default Gateway	IscsiInitiatorIpv6Gateway
Primary DNS	IscsiInitiatorPrimDns
IPv4 Primary DNS	IscsiInitiatorIpv4PrimDns
IPv6 Primary DNS	IscsiInitiatorIpv6PrimDns
Secondary DNS	IscsiInitiatorSecDns
IPv4 Secondary DNS	IscsiInitiatorIpv4SecDns
IPv6 Secondary DNS	IscsiInitiatorIpv6SecDns
iSCSI IQN	IscsiInitiatorName
CHAP ID	IscsiInitiatorChapId
CHAP Secret	IscsiInitiatorChapPwd



**Table 3 – iSCSI First Target Parameters that are commented out**

Attribute Display Name	Attribute Name
Connect	ConnectFirstTgt
IP Address	FirstTgtIpAddress
TCP Port	FirstTgtTcpPort
Boot LUN (range 0-255)	FirstTgtBootLun
iSCSI Name	FirstTgtIscsiName
CHAP ID	FirstTgtChapId
CHAP Secret	FirstTgtChapPwd
IP Version	FirstTgtIpVer

**Table 4 – iSCSI Second Target Parameters that are commented out**

Attribute Display Name	Attribute Name
Connect	ConnectSecondTgt
IP Address	SecondTgtIpAddress
TCP Port	SecondTgtTcpPort
Boot LUN (range 0-255)	SecondTgtBootLun
iSCSI Name	SecondTgtIscsiName
CHAP ID	SecondTgtChapId
CHAP Secret	SecondTgtChapPwd
IP Version	SecondTgtIpVer



**Table 5 – iSCSI Secondary Device Parameters that are commented out**

Attribute Display Name	Attribute Name
Secondary Device MAC Address	SecondaryDeviceMacAddr
Use Independent Target Portal	UseIndTgtPortal
Use Independent Target Name	UseIndTgtName

**Table 6 –FCoE Configuration Parameters that are commented out**

Attribute Display Name	Attribute Name
Connect	ConnectFirstFCoETarget
World Wide Port Name Target	FirstFCoEWWPNTarget
Boot LUN Target	FirstFCoEBootTargetLUN
Virtual LAN ID	FirstFCoEFCFVLANID

**Table 7 –FC Target Parameters that are commented out**

Attribute Display Name	Attribute Name
------------------------	----------------



Attribute Display Name	Attribute Name
Boot Scan Selection	BootScanSelection
First FC Target Connect	FirstFCTargetConnect
First FC Target World Wide Port Name	FirstFCTargetWWPN
First FC Target LUN	FirstFCTargetLUN
Second FC Target Connect	SecondFCTargetConnect
Second FC Target World Wide Port Name	SecondFCTargetWWPN
Second FC Target LUN	SecondFCTargetLUN

**Table 8 – iDRAC, System and Lifecycle Controller attributes that are commented out**

Attribute Display Name	Attribute Name
IPv6 DNS1	IPv6.1#DNS1
IPv6 DNS2	IPv6.1#DNS2
IPv6 Address1	IPv6.1#Address1
IPv6 Gateway	IPv6.1#Gateway



Attribute Display Name	Attribute Name
IPv6 Link Local Prefix Length	IPv6.1#PrefixLength
IPv6 Address1	IPv6Static.1#Address1
IPv4 Address	IPv4.1#Address
NetMask	IPv4.1#Netmask
Gateway	IPv4.1#Gateway
IPv4 DNS1	IPv4.1#DNS1
IPv4 DNS2	IPv4.1#DNS2
IPv4 Static Address	IPv4Static.1#Address
NIC Static DNS Domain Name	NICStatic.1#DNSDomainName
Data center name	ServerTopology.1#DatacenterName
Aisle Name	ServerTopology.1#AisleName
Rack Name	ServerTopology.1#RackName
Rack Slot	ServerTopology.1#RackSlot
Room Name	ServerTopology.1#RoomName



Attribute Display Name	Attribute Name
Lifecycle Controller State	LCAttributes.1#LifecycleControllerState

## Obfuscated Attributes

In addition to commented attributes, there are a number of attributes whose data is obfuscated on an export operation. For these attributes, the attribute value is “\*\*\*\*\*”. In these cases, the attribute value serves as a placeholder that the user may edit and apply to one or more targets. While giving the user the ability to apply these configuration changes in a secure manner, obfuscation also ensures that these settings are not exposed on an export operation. Examples of these attributes are the User Password attributes, BIOS setup and system password attributes, Controller key attributes and so on.

## Pseudo Attributes

An XML configuration snapshot taken from a system will list configuration attributes pertinent to all components on the system. The snapshot will also contain additional attributes that do not normally surface on an enumeration operation. For example, if on the source system on which the snapshot is taken, a virtual disk exists, then the snapshot will contain some pseudo attributes which serve to tell that a virtual disk exists, and it was configured in a certain way. Pseudo attributes are also usually commented out on export.

## BIOS, NIC and FC-HBA Attributes

The table below lists the various pseudo attributes for HII and also lists their purpose.

**Table 9 – HII pseudo attributes and their purpose**

Attribute Name	Type	Purpose
OldSysPassword	Pseudo	Used to set the system password. OldSysPassword reflects the current password in ASCII format. Value is obfuscated and commented on export.



Attribute Name	Type	Purpose
NewSysPassword	Pseudo	Used to set the system password. NewSysPassword reflects the new system password to be set up in ASCII format. Value is obfuscated and commented on export.
OldSetupPassword	Pseudo	Used to set the BIOS Setup password. The OldSetupPassword reflects the current setup password in ASCII format. Value is obfuscated and commented on export.
NewSetupPassword	Pseudo	Used to set the BIOS Setup password. The NewSetupPassword reflects the new setup password in ASCII format. Value is obfuscated and commented on export.
UefiBootSeq	Pseudo	<p>Used to set the UEFI boot sequence. Format for the value is a comma separated list of FQDDs of devices in the UEFI boot order list.</p> <p>Sample:</p> <pre data-bbox="841 1150 1421 1327">&lt;!-- &lt;Attribute Name="UefiBootSeq"&gt;NIC.Embedded.2-1-1, Optical.SATAEmbedded.E-1, NIC.Embedded.1-1-1, NIC.Slot.3-1-1, NIC.Slot.3-2-1&lt;/Attribute&gt; --&gt;</pre>



Attribute Name	Type	Purpose
BiosBootSeq	Pseudo	<p>Used to set the BIOS boot sequence. Format for the value is a comma separated list of FQDDs of devices in the BIOS boot order list.</p> <p>Sample:</p> <pre data-bbox="841 541 1422 789">&lt;!-- &lt;Attribute Name="BiosBootSeq"&gt;NIC.Embedded.2-1-1, NIC.Embedded.1-1-1, HardDisk.List.1-1, Optical.SATAEmbedded.E-1, NIC.Slot.3-1-1, NIC.Slot.3-2-1&lt;/Attribute&gt; --&gt;</pre>
HddBootSeq	Pseudo	<p>Used to set the HDD boot sequence. Format for the value is a comma separated list of FQDDs of devices in the HDD boot order list.</p> <p>Sample:</p> <pre data-bbox="841 1104 1260 1205">&lt;!-- &lt;Attribute Name="HddSeq"&gt;RAID.Slot.1-1&lt;/Attribute&gt; --&gt;</pre>
OneTimeBiosBootSeq	Pseudo	<p>Used to set one time BIOS boot sequence. Value is the FQDD of the device, which can be any of the BIOS bootable devices in the system, to which BIOS must boot once to.</p> <p>Sample:</p> <pre data-bbox="841 1619 1373 1719">&lt;!-- &lt;Attribute Name="OneTimeBiosBootSeq"&gt; HardDisk.List.1-1&lt;/Attribute&gt; --&gt;</pre>



Attribute Name	Type	Purpose
OneTimeUefiBootSeq	Pseudo	<p>Used to set the one time UEFI boot sequence. Value would be FQDD of the UEFI bootable device to which to one time boot to.</p> <p>Sample:</p> <pre>&lt;!-- &lt;Attribute Name="OneTimeUefiBootSeq"&gt;NIC.Slot.3 -2-1&lt;/Attribute&gt; --&gt;</pre>
OneTimeHddSeq	Pseudo	<p>Used to set the one time HDD boot sequence. Value would be the FQDD of the HDD bootable device to which to one time boot to.</p> <p>Sample:</p> <pre>&lt;!-- &lt;Attribute Name="OneTimeHddSeq"&gt;RAID.Slot.1 -1&lt;/Attribute&gt; --&gt;</pre>

## RAID Attributes

This section discusses RAID attributes in general and clarifies their usage.

## Controller Attributes

**Table 10 – RAID controller attributes and their purpose**

Attribute Name	Type	Purpose	Value on Export	Possible values if any



Attribute Name	Type	Purpose	Value on Export	Possible values if any
RAIDResetConfig	Pseudo	Used to perform ResetConfig action on the controller.	False	True / False
RAIDForeignConfig	Pseudo	Used to perform foreign configuration actions on the controller.	Ignore	Ignore / Clear / Import
EncryptionMode	Pseudo	Used to set Encryption Mode on the RAID controller	Obtained from RAID controller	None / Local Key Management / Dell Key Management
KeyID	Pseudo	Required to set LKM encryption mode on the RAID controller	Obtained from RAID controller	Any string upto 32 characters



Attribute Name	Type	Purpose	Value on Export	Possible values if any
NewControllerKey	Pseudo	Required to set LKM encryption mode on the RAID controller	Obfuscated	8 to 32 characters , at least 1 uppercase, 1 lowercase, 1 letter, 1 number, 1 special character. It follows the same requirements as the Option ROM
OldControllerKey	Pseudo	Required to set LKM encryption mode on the RAID controller	Obfuscated	8 to 32 characters , at least 1 uppercase, 1 lowercase, 1 letter, 1 number, 1 special character. It follows the same requirements as the Option ROM
RAIDrekey	Pseudo	Used to perform ReKey operation on the RAID controller	False	True / False



Attribute Name	Type	Purpose	Value on Export	Possible values if any
RAIDRemoveControllerKey	Pseudo	Used to perform RemoveControllerKey on the RAID controller	False	True / False
RAIDprMode	Regular	Used to set the Patrol Read Mode value on the RAID controller	Obtained from RAID Controller	Automatic / Disabled / Manual
RAIDlbMode	Regular	Used to set the Load balance mode value on the RAID controller	Obtained from RAID Controller	Automatic / Disabled / Warn Only
RAIDccMode	Regular	Used to check the consistency mode value on the RAID controller	Obtained from RAID Controller	Normal / Stop on error
RAIDcopybackMode	Regular	Used to set the copy back mode value on the RAID controller	Obtained from RAID Controller	Off / On / SMART / On with SMART
RAIDrebuildRate	Regular	Used to set the rebuild rate value on the RAID controller	Obtained from RAID Controller	1-100
RAIDprRate	Regular	Used to set the rebuild rate value on the RAID controller	Obtained from RAID Controller	1-100



Attribute Name	Type	Purpose	Value on Export	Possible values if any
RAIDbgRate	Regular	Used to set the background initialization value on the RAID controller	Obtained from RAID Controller	1-100
RAIDccRate	Regular	Used to set the consistency check rate value on the RAID controller	Obtained from RAID Controller	1-100
RAIDreconstructRate	Regular	Used to set the reconstruction rate value on the RAID controller	Obtained from RAID Controller	1-100

## Virtual Disk Attributes

**Table 11 – RAID VD attributes and their purpose**

Attribute Name	Type	Purpose	Value on Export	Possible values if any
----------------	------	---------	-----------------	------------------------



Attribute Name	Type	Purpose	Value on Export	Possible values if any
RAIDaction	Pseudo	<p>When the <b>RAIDAction</b> value is “Update”, this can be used to set RAIDinitOperation, LockStatus, DiskCachePolicy, RAIDdefaultWritePolicy, RAIDdefaultReadPolicy and assign a dedicated spare as specified by RAIDdedicatedSpare to the Virtual Disk specified by FQDD.</p> <p>When the <b>RAIDAction</b> value is “Create”, all operations similar to “Update” can be performed, but on a newly created VD. FQDD is only checked for valid VD FQDD (Disk.Virtual.XXX), but may or may not be retained after the VD is created. “Create” action requires other mandatory parameters to be specified. The “IncludedPhysicalDiskID” should be set to the PD FQDDs (one or more). “RAIDType” and “SpanLength” should also be uncommented and set to a valid</p>	Update	Create / Update / Delete



Attribute Name	Type	Purpose	Value on Export	Possible values if any
RAIDaction	Pseudo	When the RAIDaction value is "Delete", a Delete operation is performed on the VD whose FQDD is specified	Update	Create / Update / Delete
RAIDinitOperation	Pseudo	Used to initialize the Virtual Disks. Full Init is not supported.	None	None / Fast
LockStatus	Pseudo	Used to lock the Virtual Disks. When locking a VD, the controller key must already be set on the target system or it could be specified using (EncryptionMode, NewControllerKey, OldControllerKey, KeyID and RAIDRekey) as part of the same input.	Obtained from RAID controller	Unlocked / Locked
DiskCachePolicy	Regular	Used to set the Disk Cache Policy for the Virtual Disks	Obtained from RAID controller	Default / Enabled / Disabled
RAIDdefaultWritePolicy	Regular	Used to set the Write Policy for the Virtual Disks	Obtained from RAID controller	WriteBack / WriteThrough / WriteBackForce



Attribute Name	Type	Purpose	Value on Export	Possible values if any
RAIDdefaultRead Policy	Regular	Used to set the Read Policy for the Virtual Disks	Obtained from RAID controller	ReadAhead / NoReadAhead / Adaptive
Cachecade	Pseudo	Input parameter to create a Cachecade Virtual Disk	Obtained from RAID controller, Commented	Not a Cachecade Virtual Disk / Cachecade Virtual Disk
Name	Pseudo	Input parameter to create a Virtual Disk with a specific name	Obtained from RAID controller, Commented	Any string
Size	Pseudo	Input parameter to create a Virtual disk with specific size in bytes. Specifying size as 0 or leaving the attribute commented will use the full size of all the physical disks when creating a virtual disk.	Obtained from RAID controller, Commented	Integer, indicating size in bytes



Attribute Name	Type	Purpose	Value on Export	Possible values if any
StripeSize	Pseudo	Input parameter to create a Virtual Disk with specified stripe size	Obtained from RAID controller, Commented	See RAID Profile.
SpanDepth	Pseudo	Input parameter to create a Virtual disk with the specified span depth	Obtained from RAID controller, Commented	Depends on the VD RAIDTypes and SpanLength. See RAID Profile.
SpanLength	Pseudo	Input parameter to create a Virtual disk with the specified span length	Obtained from RAID controller, Commented	Depends on the VD RAIDTypes and SpanLength. See RAID Profile.
RAIDTypes	Pseudo	Input parameter to create a Virtual disk with the specified RAID level	Obtained from RAID controller, Commented	Any RAID level as supported by the Controller. See RAID Profile.
IncludedPhysical DiskID	Pseudo	Input parameter to create a Virtual disk with specified physical drives. (Mandatory for creating a Virtual disk)	Obtained from RAID controller, Commented	Available Physical Disks connected to the controller.



Attribute Name	Type	Purpose	Value on Export	Possible values if any
RAIDdedicatedSpare	Pseudo	Input parameter to assign a dedicated spare to a Virtual Disk	Obtained from RAID controller, Commented	Available Physical Disks connected to the controller.

## Physical Disk Attributes

**Table 12 – RAID PD attributes and their purpose**

Attribute Name	Type	Purpose	Value on Export	Possible values if any
RAIDHotSpareStatus	Pseudo	Used to specify a Physical Disk as a Global Spare or un-assign it from being a Spare. Dedicated Spares are taken care of by RAIDdedicatedSpare (see VD attributes).	Obtained from RAID controller, Commented	Global / No



Attribute Name	Type	Purpose	Value on Export	Possible values if any
RAIDPDState	Pseudo	Input parameter to perform ConvertToRAID or ConvertToNonRAID operations on a Physical Disk.	Obtained from RAID controller, Commented	See RAID Profile. Possible values like Online / Foreign are possible on export, but are not settable .

## Conclusion

The server configuration XML file snapshot contains configurable attributes for all aspects of system configuration. This means that one such snapshot could be edited and used to effect changes to different components on the same system, using the same command. The documents listed in the Learn More section show how different XML snippets can be used to achieve various console workflows with this feature.

Learn more

Learn more

Visit [Dell.com/PowerEdge](http://Dell.com/PowerEdge) for more information on Dell's enterprise-class servers.

Also lookup the Lifecycle Controller page on Dell Tech Center ([www.delltechcenter.com/lc](http://www.delltechcenter.com/lc)) for the following documents:

*Dell Lifecycle Controller Schema Guide*

*Configuration XML Workflows (Document shows how to achieve various console workflows / system administration tasks using simple XML snippets and the Import Configuration command)*



*Best Practices Guide (Document describes best practices for achieving console workflows, referred to for a comparison of how a particular workflow can be accomplished with the new feature vs. best practices in LC 2.0)*

Dell Profile Documents

Sample XMLs, Batch files and Sample Video

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