

Maximize the power of your OpenVMS environment with Integrity i4 servers



OpenVMS Bootcamp

September 2015

Leo Demers – Mission Critical Systems Product Manager

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Accelerate the value of your mission-critical IT

Integrity server featuring Intel® Itanium® processor 9500 series

Now Supported by
OpenVMS v8.4-1H1



Integrity
rx2800 i4 Server



Integrity server blades
BL860c i4, BL870c i4, BL890c i4

33%

TCO
savings

21%

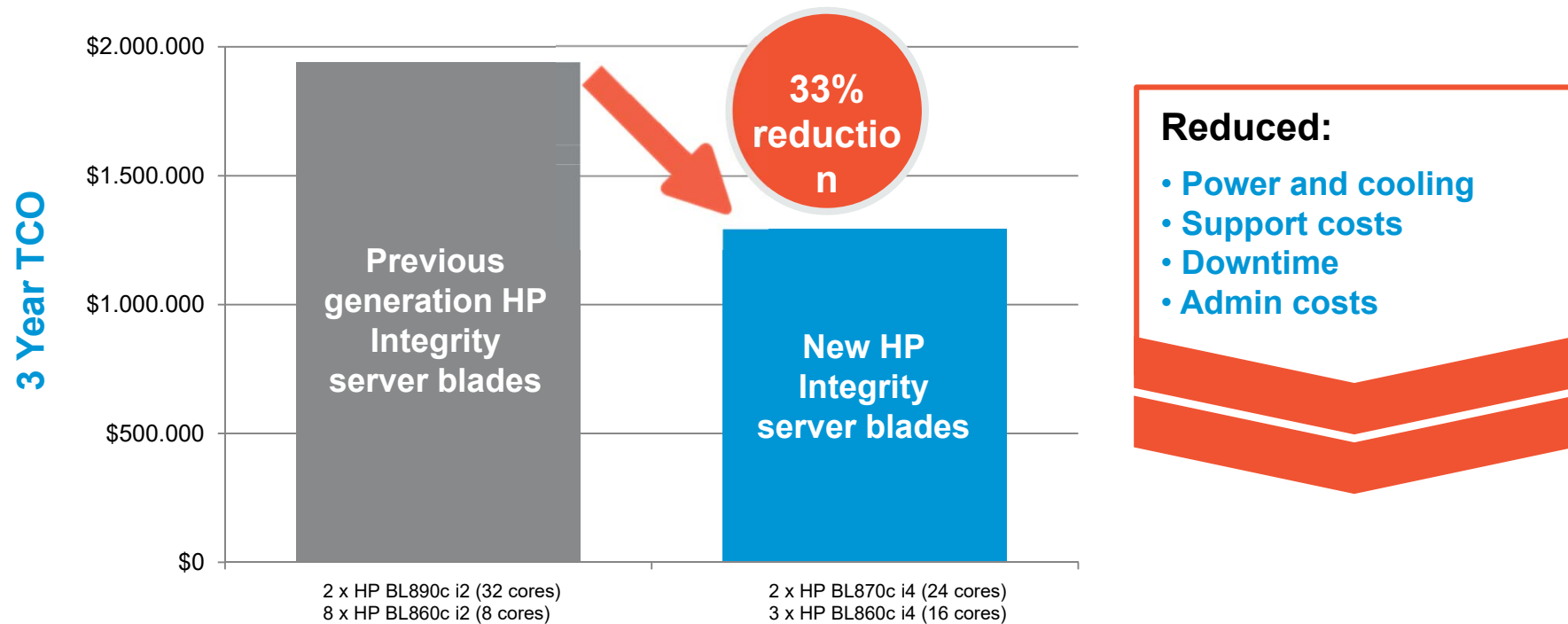
Less power
consumption

Up to
3x

Performance
improvement



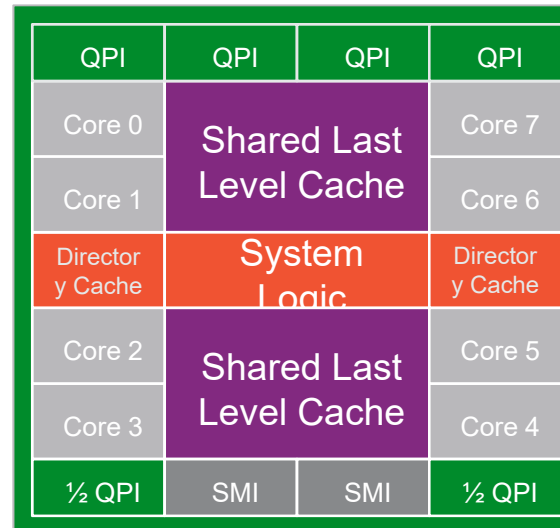
Realizing 33% TCO savings with a unified architecture



Upgrade to superior performance, power and RAS

Intel® Itanium® Processor 9500 Series Architecture improvements

- **Greater scalability**
- **2x performance**
- **Reduced power**
- **Enhanced reliability**



Overview	
Process	32nm
Devices	3.1 Billion
Area	544 mm
Power(Max TDP)	170W
Itanium® Cores	8
Last Level Cache Size	32MB
Clock Speed	Up to 2.53 GHz
Intel® QuickPath Interconnect Links	4 full + 2 half
Intel® QPI Link Speed	6.4GT/s
Intel® Scalable Memory Interface Links	4
Intel® SMI Link Speed	6.4GT/s

Bootcamp Tuesday:

1:30 pm - 2:30 pm Bedford Room - Keith Parris

Introduction to the Poulson (Intel 9500 series)

2:30 pm - 3:30 pm Bedford Room - Thilo Lauer & Martin Zinser

i4 vs. i2 - A Performance evaluation based on a real-world application



Increase performance and reduce power with rx2800



HP Integrity rx2800 i4 server



Higher performance

- **Speed up workloads:** up to 3.5x performance

Greater efficiency

- **Up to 21% less power consumption*:** Low voltage DIMMS
- **Greater efficiencies:** Platinum PLUS power supplies (94% energy efficient)

*Source: Based on Energy Star qualification results



Future-proof your infrastructure with Integrity blades

Can you spot the i4 Blades?

Higher performance

- **Speed workloads:** up to 3x performance
- **Improve rebuild times:** SAS read-only cache

Greater power efficiency

- **Less power:** save up to 30 W per blade with low voltage DIMMs

Future-proof infrastructure

- **Mix and match** HP Integrity/ProLiant/Storage blades
- **Increase flexibility:** FlexFabric for LAN and SAN
- **More intelligence**



BladeSystem c7000 Platinum Enclosure

HP Integrity server blades



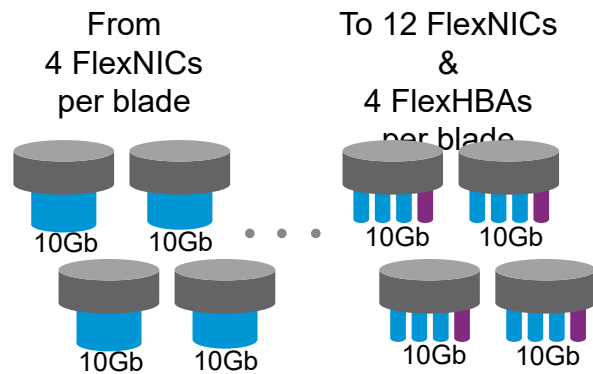
	BL860c i4	BL870c i4	BL890c i4
Processor SKUs	8-core 2.53GHz 8-core 2.13GHz		4-core 2.4GHz 4-core 1.73GHz
Processor Sockets	2	4	8
Memory	24 DIMM slots; 1.35V 4GB, 8GB, 16GB DIMMs	48 DIMM slots; 1.35V 4GB, 8GB, 16GB DIMMs	96 DIMM slots; 1.35V 4GB, 8GB, 16GB DIMMs
HDD Slots	2	4	8
Embedded Controller	1 HP p410i SAS RAID w/512MB cache	2 HP p410i SAS RAID w/512MB cache	4 HP p410i SAS RAID w/512MB cache
Embedded NICs	4 FlexFabric (FCoE)	8 FlexFabric (FCoE)	16 FlexFabric (FCoE)
IO Mezz Slots	3 Gen2 PCIe	6 Gen2 PCIe	12 Gen2 PCIe
Management & Virtualization	Enhanced Integrity iLO3 Virtual Partitions (vPars) Virtual Machines (VMs)	Enhanced Integrity iLO3 Virtual Partitions (vPars) Virtual Machines (VMs) 1 or 2 nPartitions	Enhanced Integrity iLO3 Virtual Partitions (vPars) Virtual Machines (VMs) 1-4 nPartitions
OS's	HP-UX 11i v3 1209 release , OpenVMS V8.4-1H1		
Options & Accessories	Support for existing hard drives, I/O cards		



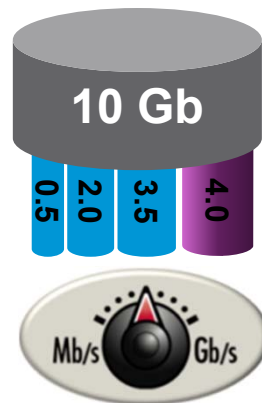
Integrity blades with VC FlexFabric

Optimized for flexible connectivity OpenVMS currently is LAN only!!

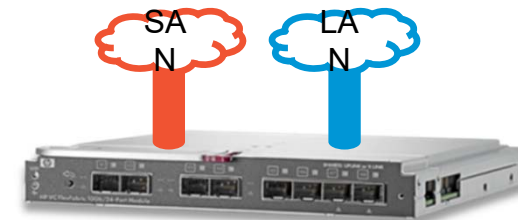
Configurable LAN & SAN connections



Adjust bandwidth to meet workload requirements



Provides all your connectivity needs



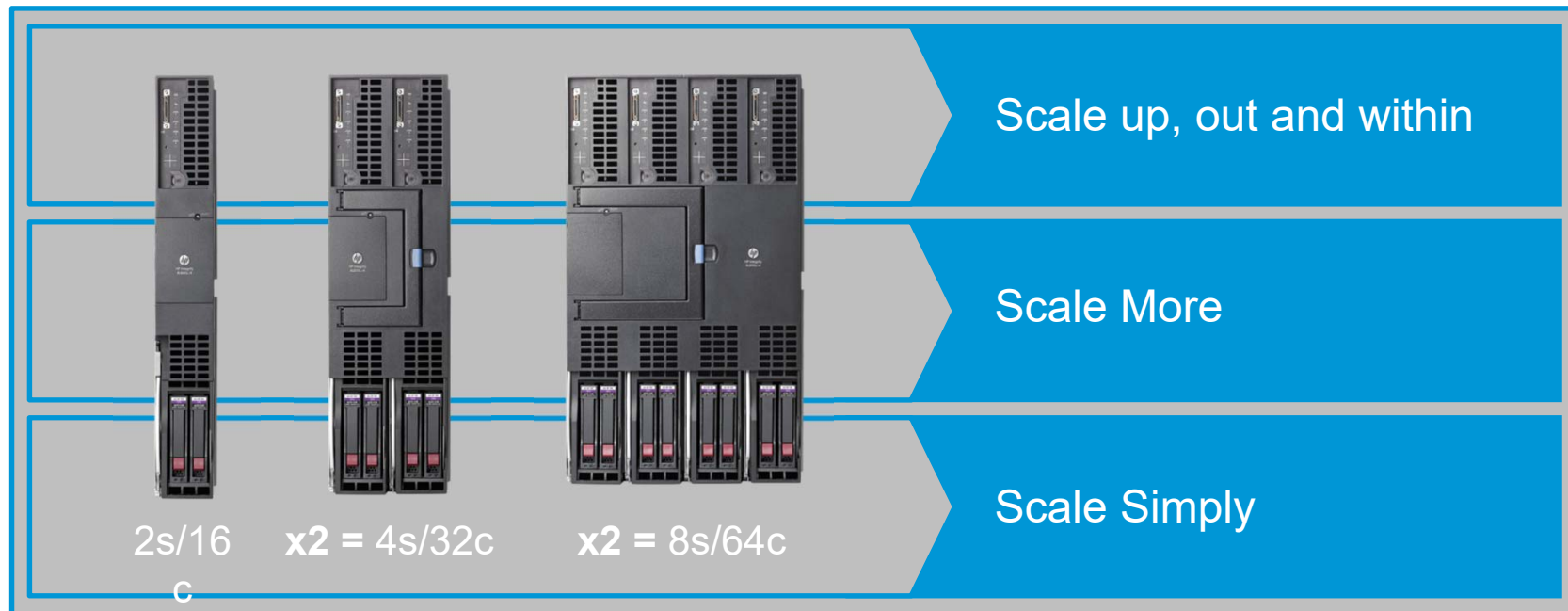
Virtual Connect FlexFabric Module

	Physical ports	FlexNICs	FlexHBAs
BL860c i4	4	12	4
BL870c i4	8	24	8
BL890c i4	16	48	16



Unique HP Integrity Blade Link technology

Combines multiple blades into a single, scalable system



Simplified scalability with industry's first 2, 4, 8-socket server blades



Upgrade kits

Blade link enables easy and flexible upgrades

Feature
Enhancement!

Upgrade kits

Hardware Components



Upgrade blade
No Blade Link



BL2 (3 options)
BL870c i4 Blade Link



BL4 (2 options)
BL890c i4 Blade Link

Upgrade types

Additions

have a single Integrity blade and want to upgrade

1. Order upgrade blade(s)
 - Upgrade blade is CTO and must include at least one processor; other components can be added (memory, IO, etc.)
2. Order required Blade Link
3. Proper OE license to be purchased; trade-in available
4. Proper support level to be purchased

Combinations

have multiple Integrity blades and want to upgrade by combining them

1. Order required Blade Link
2. Proper OE license to be purchased; trade-in available
3. Proper support level to be purchased

Conversions

have a single Integrity blade and want to convert (e.g. from odd to even slot)

1. Order required Blade Link
2. No OE license change required
3. No support level change required



HP Integrity server positioning



rx2800 i4	Integrity server blades
<p>Recommended for:</p> <ul style="list-style-type: none">•Workloads requiring 1-2 processors•Remote and branch offices with three or fewer servers•Deals requiring the lowest price point while maintaining Integrity-level reliability	<p>Recommended for:</p> <ul style="list-style-type: none">•Workloads requiring 1-8 processors•Configurations requiring the advantages and flexibility of Virtual Connect•Environments looking to mix Integrity blades, ProLiant blades and Storage blades in the same BladeSystem infrastructure



Easing management of newest Integrity servers

Integrity iLO 3



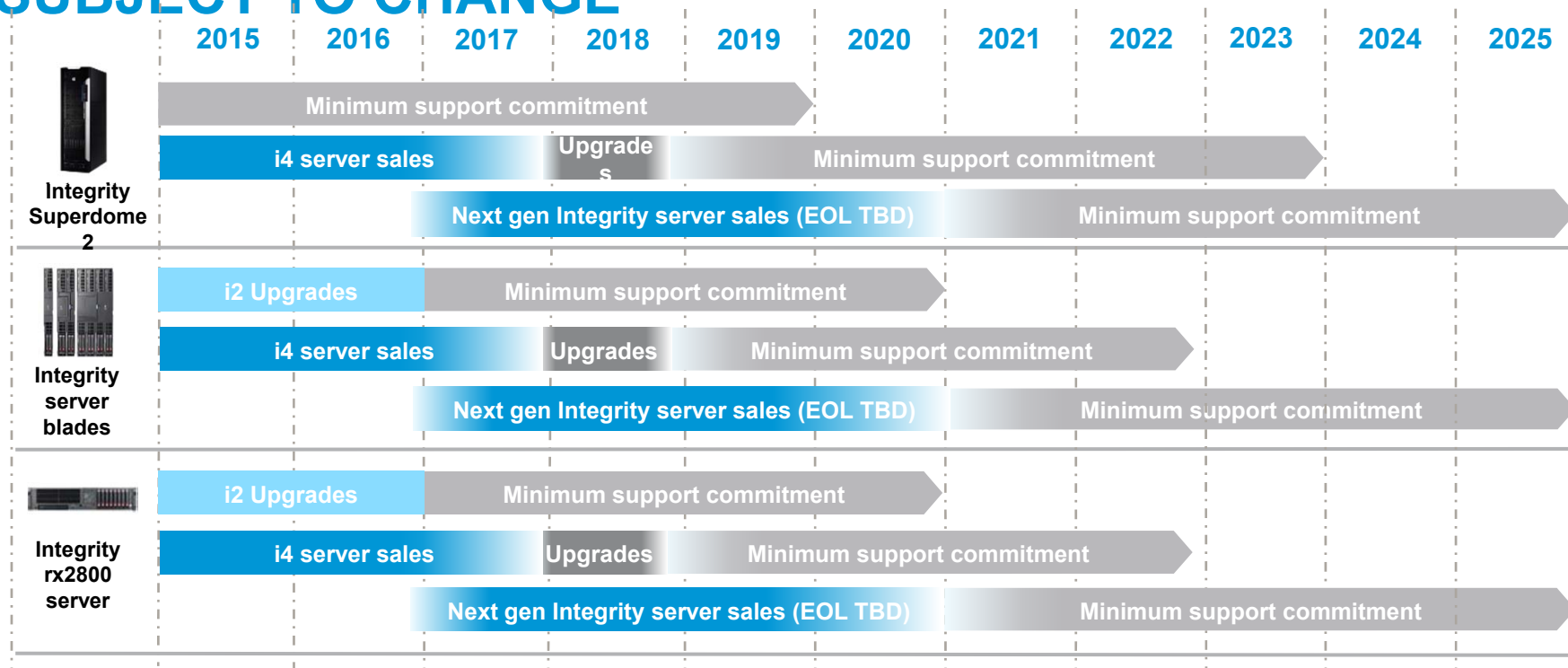
- **Easily create, delete and resize** nPartitions on the new BL870c i4 and BL890c i4 server blades
- Up to **6x faster** vMedia
- **Increased security** through progressive login delays for repeated incorrect password attempts
- **Clear** cause-and-action **diagnostic statements**
- **Simplified firmware updates** using Integrity iLO integrated with HPSUM



This is a rolling (up to three year) Statement of Direction and is subject to change without notice.

Integrity Servers lifecycle

SUBJECT TO CHANGE



Note: An external lifecycle and end of support matrix can be found at:

www.hp.com/go/hpuxservermatrix

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HP CONFIDENTIAL 

DEMO: Splitting up an Integrity server blade with nPar

Experience the next level of availability and flexibility for your server with electrically isolated partitioning, nPars. This demo shows how the HP Integrity BL890c i4 can be split or combined into one, two or four separate nPars. This creates different configurations of Integrity BL890c i4, Integrity BL870c i4 and Integrity BL860c i4 servers.

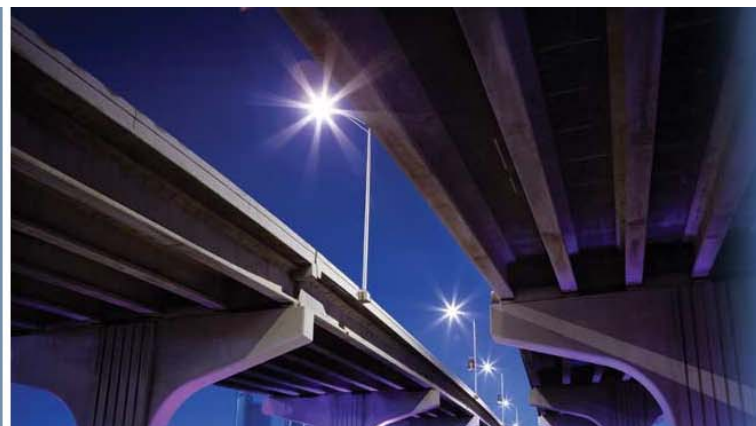




Integrated Lights-Out 3

HP Integrity BL890c i4

iLO Firmware Revision 01.60.07
iLO Common Name ilo80c16e98f01e



User name:

Password:

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Virtual Front Panel

LEDs: Locator UID System Health System Power

State: Power Off

Navigation Menu

[Launch Console](#)

- System Status
 - Status Summary**
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 - Network Settings
 - WS-MAN Settings
 - [nPartition Configuration](#)
 - Onboard Administrator Info

Help

Status Summary

Overview

Active Users

FW Revisions

System

Product Name: Integrity BL890c i4
Product ID: 0x714
Serial Number: SGH2226STH
UUID: 523AB047-CF92-11E1-BCBA-0142F47725C5
Current Operating System: Status is not available
System Firmware: 02.29
Latest System Event Log Entry: Enclosure health has been changed. 25 Oct 2012 10:34:53

iLO ilo80c16e98f01e

iLO Health:  OK
IP Address: 15.154.122.176
Date & Time: 10/25/2012 10:42:08
License Type: nPartition License including iLO Advanced License
Integrated Lights-Out Firmware: 01.60.07
Latest iLO Event Log Entry: User login event 25 Oct 2012 10:42:07

System Power

Momentary Press

Management

Turn Locator UID On

Launch SMH

Integrity BL890c i4



Launch OA

Virtual Front Panel

LEDs: Locator UID System Health System Power

State: Power Off

Navigation Menu

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Help

nPartition Configuration

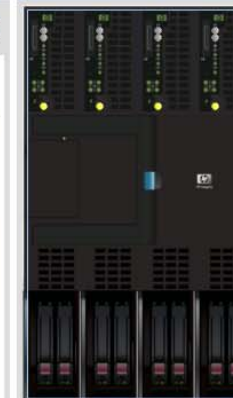
You are currently logged into the iLO Domain MP. To manage other nPars, log into their respective Monarch iLOs or log into the Onboard Administrator.

nPar Configuration	Description
	One 4-Blade System
	Two 2-Blade nPartitions
	One 2-Blade nPartition, and Two 1-Blade nPartitions
	Two 1-Blade nPartitions, and One 2-Blade nPartition
	Four 1-Blade nPartitions

Submit

Clear

Integrity BL890c i4



Launch OA

Virtual Front Panel

LEDs: Locator UID System Health System Power

State: Power Off

Navigation Menu

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Help

nPartition Configuration

You are currently logged into the iLO Domain MP. To manage other nPars, log into their respective Monarch iLOs or log into the Onboard Administrator.

nPar Configuration		Description
	A A A A	One 4-Blade System
	A A C C	Two 2-Blade nPartitions
	A A C D	One 2-Blade nPartition, and Two 1-Blade nPartitions
	A B C C	Two 1-Blade nPartitions, and One 2-Blade nPartition
	A B C D	Four 1-Blade nPartitions

Submit

Clear

Integrity BL890c i4



Launch OA

Virtual Front Panel

LEDs: Locator UID System Health System Power

State: Power Off

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Help

nPartition Configuration

You are currently logged into the iLO Domain MP. To manage other nPars, log into their respective Monarch iLOs or log into the Onboard Administrator.

nPar Configuration	Description
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	Two 2-Blade nPartitions
	One 2-Blade nPartition, and Two 1-Blade nPartitions
	Two 1-Blade nPartitions, and One 2-Blade nPartition
	Four 1-Blade nPartitions

Submit

Clear

Integrity BL890c i4



Launch OA

Virtual Front Panel

LEDs: Locator UID System Health System Power

State: Power Off




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- Onboard Administrator Info

Help

nPartition Configuration

You are currently logged into the ILO Domain MP. To manage other nPars, log into their respective Monarch ILOs or log into the Onboard Administrator.

nPar Configuration	Description
	One 4-Blade System
	Two 1-Blade nPartitions, and One 2-Blade nPartition
	Four 1-Blade nPartitions

An iLO reset is required and system environment variables may be cleared on all modified systems for the nPartition Configuration to take effect. This will cause all current connections to be dropped. This configuration change may take several minutes to appear on other manageability user interfaces.

Do you wish to continue?

OK Cancel

Integrity BL890c i4



Launch OA

Submit

Clear

Virtual Front Panel

LEDs: Locator UID System Health System Power

State: Power Off

Navigation Menu

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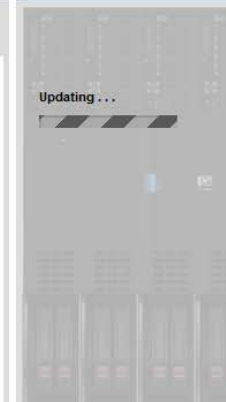
Help

nPartition Configuration

Completing nPartition Configuration ...



Integrity BL890c i4



Launch OA



Integrated Lights-Out 3

HP Integrity BL890c i4 nPar

iLO Firmware Revision 01.60.07
iLO Common Name ilo80c16e98f01e



User name:

Password:

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Virtual Front Panel

LEDs: Locator UID System Health System Power

State: Power Off

Navigation Menu

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Help

Status Summary

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Active Users

FW Revisions

System

Product Name: Integrity BL890c i4 nPar
Product ID: 0x714
Serial Number: SGH2226STH
UUID: 523AB047-CF92-11E1-BCBA-0142F47725C5
Current Operating System: Status is not available
System Firmware: 02.29
Latest System Event Log Entry: Enclosure health has been changed. 25 Oct 2012 10:46:43

iLO ilo80c16e98f01e

iLO Health:  OK
IP Address: 15.154.122.176
Date & Time: 10/25/2012 10:47:49
License Type: nPartition License including iLO Advanced License
Integrated Lights-Out Firmware: 01.60.07
Latest iLO Event Log Entry: User login event 25 Oct 2012 10:47:48

System Power

Momentary Press

Management

Turn Locator UID On

Launch SMH

Integrity BL890c i4 nPar



[Launch OA](#)

Virtual Front Panel

LEDs: Locator UID System Health System Power

State: Power Off


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 - Onboard Administrator Info

Help

nPartition Configuration

You are currently logged into the iLO Domain MP. To manage other nPars, log into their respective Monarch ILOs or log into the Onboard Administrator.

nPar Configuration	Description
	One 4-Blade System
	Two 2-Blade nPartitions
	One 2-Blade nPartition, and Two 1-Blade nPartitions
	Two 1-Blade nPartitions, and One 2-Blade nPartition
	Four 1-Blade nPartitions

Integrity BL890c i4 nPar



[Launch OA](#)

[Submit](#)

[Clear](#)

Firefox

HP Integrated Lights-Out 3 for Integrity

15.154.122.176https://15.154.122.176/home.html

Integrated Lights-Out 3
HP Integrity BL890c i4 nPar

Virtual Front Panel

LEDs:LocatorUIDSystem HealthSystem Power

State: Power Off

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User Administration

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nPartition Configuration

Onboard Administrator Info

nPartition Configuration

You are currently logged into the iLO Domain Onboard Administrator.

	nPar Configuration	Description
<input type="radio"/>	A A A A	One 4-Blade
<input checked="" type="radio"/>	A A C C	Two 2-Blade
<input type="radio"/>	A A C D	One 2-Blade
<input type="radio"/>	A B C C	Two 1-Blade
<input type="radio"/>	A B C D	Four 1-Blade

Firefox

HP iLO Login

15.154.122.178https://15.154.122.178/index.html

Integrated Lights-Out 3

HP Integrity BL890c i4 nPar

iLO Firmware Revision 01.60.07
iLO Common Name ilo00c16e906576

User name:Administrator

Password:•••••

Log In

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Virtual Front Panel

LEDs: Locator UID System Health System Power

State: Power Off

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Overview

Active Users

FW Revisions

System

Product Name: Integrity BL890c i4 nPar
Product ID: 0x714
Serial Number: SGH2226STH
UUID: 523AB047-CF92-11E1-BCBA-0142F47725C5
nPartition Lock Status: i nPartition is unlocked. The iLO Domain MP is allowed to reconfigure this partition.
Current Operating System: Status is not available
System Firmware: 02.29
Latest System Event Log Entry: iLO has been reset due to an nPartition change. 01 Jan 2001 03:35:35

iLO ilo80c16e986576

iLO Health: OK
IP Address: 15.154.122.178
Date & Time: 01/01/2001 03:47:53
License Type: nPartition License including iLO Advanced License
Integrated Lights-Out Firmware: 01.60.07
Latest iLO Event Log Entry: User login event 01 Jan 2001 03:47:51

System Power

Momentary Press

Management

Turn Locator UID On

Launch SMR

Integrity BL890c i4 nPar



Launch OA

Virtual Front Panel

LEDs: Locator UID System Health System Power

State: Power Off

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Help

Power & Reset

System Power: Off

Power On: [Momentary Press](#)

System Power Restore Settings:

- ☐ Restore Previous Power State
- ☐ Automatically Power On
- ☒ Remain Powered Off

[Submit](#)

Wake-On-LAN:

- ☐ Enable
- ☒ Disable

[Submit](#)

Integrity BL890c i4 nPar



[Launch OA](#)

Virtual Front Panel

LEDs: Locator UID System Health System Power

State: Power Off

Navigation Menu

Launch Controls

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Help

Power & Reset

System Power: Off

Power On: Momentary Press

System Power Restore Settings:

- ☐ Restore Previous Power State
- ☐ Automatically Power On
- ☒ Remain Powered Off

Submit

Wake-On-LAN:

- ☐ Enable
- ☒ Disable

Submit

Do you wish to continue?

OK

Cancel

Integrity BL890c i4 nPar



Launch OA

Virtual Front Panel

LEDs: Locator UID System Health System Power

State: System Starting

Navigation Menu

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Help

Power & Reset

System Power: ● On

Graceful Power Off: [Momentary Press](#)

Force Power Off: [Press & Hold](#)

Force System Reset with Crash Dump (TOC/INIT): [Reset w/Crash Dump](#)

Force System Reset: [Reset](#)

Force Power Cycle: [Cold Boot](#)

System Power Restore Settings:

☐ Restore Previous Power State

☐ Automatically Power On

☒ Remain Powered Off

[Submit](#)

Wake-On-LAN: ☐ Enable ☒ Disable

[Submit](#)

Integrity BL890c i4 nPar



[Launch OA](#)

Firefox

HP Integrated Lights-Out 3 for Integrity

15.154.122.176https://15.154.122.176/home.html

Google

Integrated Lights-Out 3
HP Integrity BL890c i4 nPar

Current User : Administrator
iLO Hostname : ilo80c16e98f01e

Home | Sign Out

Virtual Front Panel

LEDs:LocatorUIDSystem HealthSystem Power

State: Power Off

Navigation Menu

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- iLO Event Log

Remote Console

- Remote Serial Console
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Virtual Media

Power Management

- Power & Reset
- Power Meter Readings
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Administration

- Firmware Upgrade
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- nPartition Configuration
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Help

nPartition Configuration

You are currently logged into the iLO Domain MP. To manage other nPars, log into their respective Monarch iLOs or log into the Onboard Administrator.

nPar Configuration	Description
	One 4-Blade System
<input checked="" type="radio"/>	Two 2-Blade nPartitions
	One 2-Blade nPartition, and Two 1-Blade nPartitions
	Two 1-Blade nPartitions, and One 2-Blade nPartition
	Four 1-Blade nPartitions

Some configurations are unavailable because blades in bays 7, 8 are powered on

SubmitClear

Integrity BL890c i4 nPar

Launch OA

https://15.154.122.176/blade/nParConfig.html

Google

Current User : Administrator
iLO Hostname : ilo80c16e986576

Home | Sign Out

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Launch OA