Product Brief

# **KEY FEATURES**

2U, 24" Rackmount Design

Four Hot-swappable RAID-capable Drives

Validated on Most Popular OS

Advanced Intel<sup>®</sup> Server Control System

# Intel<sup>®</sup> ISP2150 Internet Server Platform

# Power to Serve the Internet Economy





## **Balanced Performance By Design**

#### **Scale with Your Business**

The Intel® ISP2150 Internet server platform offers powerful performance and a flexible growth path in a compact system. Engineered for Service Providers, the thin 2U form factor and new 24" chassis length enables you to stack servers in parallel as you grow, and can be loaded with up to two Intel® Pentium® III processors for fast memory, fast storage, and fast network connections.

#### **Customize to Your Environment**

Starting from a single processor system, the ISP2150 can easily be upgraded with additional processor, memory and disk capacity. As your customer base expands and your needs grow, the ISP2150 can be clustered, load balanced, brought on-line quickly and easily managed from a central console. Unlike proprietary designs, the ISP2150's open, flexible architecture guarantees customers a wide selection of choices at every level of the solution stack from hardware components and peripherals, to the most popular operating systems for Internet development, software applications, even development tools.

#### **Built-in Server Management**

Deploy, manage, refactor. Advanced Intel<sup>®</sup> Server Control features remote real-time server management throughout the life of your product. With this technology, the server management microprocessor coordinates interaction

between sensors inside the system and a remote console displays critical information on your system administrator's PC. By establishing parameters for critical server voltages, temperatures, and rotational speeds, you can alert and even page administrators to out-of-bounds conditions—not only minimizing service interruptions but preventing them.

#### **High Reliability for Maximum Uptime**

As a compliment to remote, real-time server management, the ISP2150 features a number of hardware advancements to maximize uptime for your customer. A four-drive, hot-swappable storage subsystem offers robust storage space and data protection with an add-in RAID Controller to reduce server downtime and assure data integrity.

#### World-class Engineering, Worldwide Support

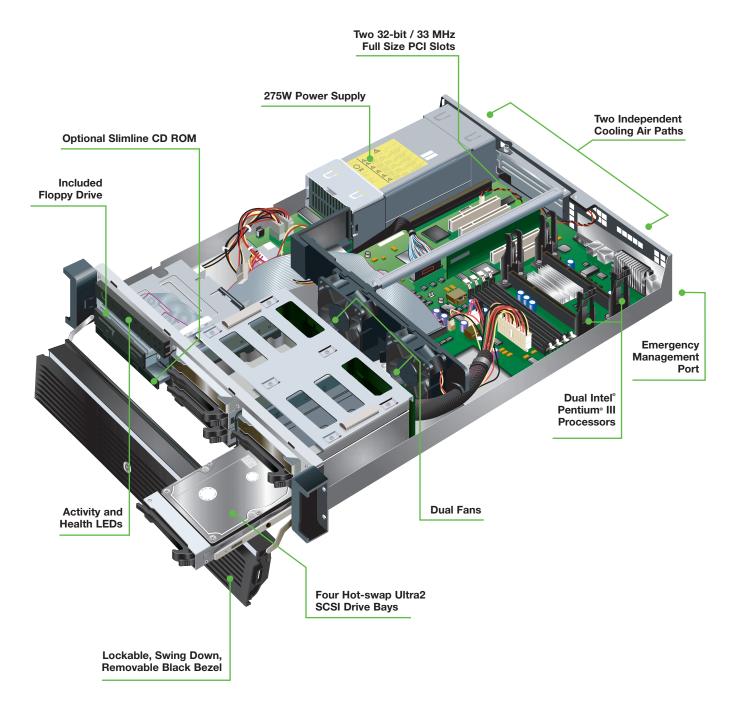
Intel<sup>®</sup> Internet Server Platforms are built from the ground up for high reliability, scalability, and easy integration. In addition to a three-year limited warranty on board and chassis and toll-free, worldwide technical phone support, Intel offers next business day replacement of warranty parts to keep mission critical products up and running.\*\* For effortless maintenance and real-time 7x24 technical information, Intel's extensive support web site features the latest drivers and updates as well as a searchable knowledge-base for troubleshooting and problem solving, top technical issues, and links to all Intel individual product support solutions.

Features	Benefits	
Support for up to two 700 MHz Intel <sup>®</sup> Pentium <sup>®</sup> III Processors	Processing performance for demanding Internet applications like secure web and CGI scripts	
Four-drive (2x1" and 2x1.6", or 4x1") Hot-swap Storage Subsystem	Large storage capacity; data protection with add-in RAID Controller to reduce downtime	
Supports up to 2 GB of 100 MHz SDRAM Memory	Ample headroom for future expansion	
Ultra2 SCSI Controller	High-performance disk access (80 MB/s) and support for tape back-up	
Intel <sup>®</sup> PRO/100+ Fast Ethernet Controller (82559) on Motherboard	Scalable network bandwidth from 10 to 100 MB	
Two Full Size PCI Slots	Growth for additional peripherals such as external SCSI and Ethernet boards	
Integrated SVGA Graphics	Graphics available to administer and set-up system	
Validated on Some of the Most Popular Operating Systems	Ensures a wide choice of applications, now and in the future	
Advanced Intel <sup>®</sup> Server Control System • ISC – Intel <sup>®</sup> Server Control Software • Server Management Microprocessor • EMP – Emergency Management Port • PEP – Platform Event Paging	Deploy, manage, refactor. Remote, real-time server management throughout the product lifecycle	

\*\*Some restrictions apply. Not available in all geographies.

# Intel<sup>®</sup> ISP2150 Internet Server

Dual processor support and up to 2 GB of SDRAM memory allows for ample headroom and support of high traffic web sites and complex e-Business applications.



www.intel.com/network/products/internet\_infrastructure.htm

## Intel® ISP2150 Internet Server Specifications

<b>Processor/Cache</b>			
		Intel <sup>®</sup> Server Cont	ol (ISC)
Processors Supported	Intel <sup>®</sup> Pentium <sup>®</sup> III processors up to 700 MHz	Managed Server	Operating systems supported:
Intel <sup>®</sup> Chipset	Intel <sup>®</sup> 82443GX+ (includes Intel <sup>®</sup> 21150 AGP-to-PCI Bridge), Intel <sup>®</sup> PIIX4E		Windows NT* Server 4.0 SPS Solaris* 7.0
Custom Monor		Management Consoles	ISC integrates into the leading
System Memory Memory Capacity	Four DIMM sockets for up to 2 GB of SDRAM (32 MB minimum)		management supported consoles: Intel <sup>®</sup> LANDesk◎ Server Manager 6.01 HP OpenView* Network Node Manager 5.02
Memory Type	PC/100 100 MHz SDRAM, 72-bit ECC or 64-bit non-ECC, 168 pin gold plated DIMMs	Stand-alone Consoles	CA TNG* Framework 2.01 for Windows NT* Microsoft Management Supported Console
DIMM Sizes	32 MB, 64 MB, 128 MB, 256 MB, 512 MB		Internet Explorer* 3.02 and higher
Memory Voltage	3.3V only		Netscape Navigator* 3.0 and higher with ActiveX* snap-in
Error Detection	Corrects single-bit errors, detects double-bit	System Health Monitor	Temperature, voltage, cooling fans, ECC memory,
	errors (using ECC memory)	cystem neutan monitor	processor status, power-supply status, on-board
Expansion Slots (a	ll full length)		NIC and SCSI; OS hang monitoring via
Description	Two full-length PCI slots (32-bit/33 MHz)		Watchdog Timer
•	on riser card (not shown)	Alert Notification	When a configured event takes place these
Integrated Adapte	c* SCSI Controller		methods of notification are available: Network broadcast, SNMP trap, writing into
Controller	Adaptec* AIC*-7896 Dual Channel-		System Event log (nonvolatile storage),
	one Ultra2 (LVD) (up to 80 MB/s),		Message box
	Two 68 pin "wide" SCSI connectors	Critical Event Actions	Graceful operating system shutdown with reboot
Integrated Intel <sup>®</sup> N	etwork Adapter		or power off at administrator's discretion
Controller	One Intel <sup>®</sup> PRO/100+ Fast Ethernet Server		Immediate power off, reset or NMI
	Controller (Intel <sup>®</sup> 82559)	Environment	
	Supports 10BASE-T and 100BASE-TX, RJ45 output	Ambient Temperature	Operating 10°C to +35°C
Integrated Graphi	25		Nonoperating/storage -40°C to +70°C ambient
Controller	Cirrus Logic* GD 5480	Relative Humidity	Nonoperating 95% @ 30°C noncondensing
Maximum Resolution	1280 x 1024; 16 colors	Regulations	
Graphics Memory	2 MB, 10 ns SGRAM	Safety Regulations	
		U.S. & Canada	UL1950-CSA 950
IDE	<b>IDE Xcelerator (PIIX4e)</b> Two independent channels for a total of four	Europe CE Mark	EN60950
IDE	IDE devices		Compliance to EU Directive 89/336/EEC
	PIO Mode 0, PIO Mode 3, PIO Mode 4,	International	IEC60 950, CB Report and Certificate
	ATA-33 and CD-ROM support	Nordic	EMKO-TSE (74-SEC) 207/94 – NEMKO
USB	Two stacked USB connectors	EMI/RFI	
Integrated Super	/0	U.S.	FCC, CFR 47 Part 15, Class B
Controller	National* Super 87309	Canada	ICES-003, Class B
O suited D suite	Two Asynch, RS-232C, 9 pin and 10 pin	Europe CE Mark	EN55022 and EN55024
Serial Ports	100 Asynch, NS-2320, 9 pin and 10 pin		
Parallel Ports	IEEE 1284, 25 pin bidirectional	Japan	VCCI, Class B
		Japan International	
Parallel Port	IEEE 1284, 25 pin bidirectional 1.44 MB	Japan	VCCI, Class B
Parallel Port Floppy Controller Keyboard/Mouse	IEEE 1284, 25 pin bidirectional	Japan International Australia/New Zealand	VCCI, Class B CISPR-22, Class B
Parallel Port Floppy Controller Keyboard/Mouse <b>System BIOS</b>	IEEE 1284, 25 pin bidirectional 1.44 MB PS/2, 8240A compatible	Japan International	VCCI, Class B CISPR-22, Class B
Parallel Port Floppy Controller Keyboard/Mouse	IEEE 1284, 25 pin bidirectional 1.44 MB	Japan International Australia/New Zealand <b>System</b>	VCCI, Class B CISPR-22, Class B AS/NZS 3548, Class B Rack
Parallel Port Floppy Controller Keyboard/Mouse <b>System BIOS</b>	IEEE 1284, 25 pin bidirectional 1.44 MB PS/2, 8240A compatible 8 MB Flash EEPROM with Phoenix* BIOS, Multi- boot BBS (BIOS Boot Specification) 1.0 Compliant Plug and Play, IDE drive autoconfigure, DMI 2.0,	Japan International Australia/New Zealand <b>System</b> Form Factor	VCCI, Class B CISPR-22, Class B AS/NZS 3548, Class B
Parallel Port Floppy Controller Keyboard/Mouse <b>System BIOS</b> BIOS Type	IEEE 1284, 25 pin bidirectional 1.44 MB PS/2, 8240A compatible 8 MB Flash EEPROM with Phoenix* BIOS, Multi- boot BBS (BIOS Boot Specification) 1.0 Compliant Plug and Play, IDE drive autoconfigure, DMI 2.0, ECC/Parity support, multilingual support and	Japan International Australia/New Zealand <b>System</b> Form Factor Height	VCCI, Class B CISPR-22, Class B AS/NZS 3548, Class B Rack 2U (3.46") (88 mm)
Parallel Port Floppy Controller Keyboard/Mouse System BIOS BIOS Type Special Features	IEEE 1284, 25 pin bidirectional 1.44 MB PS/2, 8240A compatible 8 MB Flash EEPROM with Phoenix* BIOS, Multi- boot BBS (BIOS Boot Specification) 1.0 Compliant Plug and Play, IDE drive autoconfigure, DMI 2.0, ECC/Parity support, multilingual support and jumperless processor speed setup	Japan International Australia/New Zealand <b>System</b> Form Factor Height Width	VCCI, Class B CISPR-22, Class B AS/NZS 3548, Class B Rack 2U (3.46") (88 mm) 18.90"(480 mm)
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Parallel Port Floppy Controller Keyboard/Mouse <b>System BIOS</b> BIOS Type Special Features Configuration Utilities <b>Jumpers and From</b> ATX Connectors <b>Server Manageme</b> Failure Detection	IEEE 1284, 25 pin bidirectional 1.44 MB PS/2, 8240A compatible 8 MB Flash EEPROM with Phoenix* BIOS, Multi- boot BBS (BIOS Boot Specification) 1.0 Compliant Plug and Play, IDE drive autoconfigure, DMI 2.0, ECC/Parity support, multilingual support and jumperless processor speed setup System Set-up Utility (SSU) enables easy system setup of BIOS and utilities, plug and play <b>t Panel Connectors</b> Speaker, reset, power LEDs, HD LED, power on/off Wake On LAN (WOL) Enable; flash configuration jumpers include: fault-resilient booting timer, boot-block protection, boot recovery, CMOS clear, password protect, BMC Forced Update <b>nt Instrumentation</b> Voltage variation, thermal, operating-system Watchdog Timer, fan failure, power-supply failure, processor status, ECC memory, heat-sink fan check Reset, power up/down control, read system	Japan International Australia/New Zealand <b>System</b> Form Factor Height Width Depth Weight <b>Hot-swap Drive Ba</b> Drives SCSI Backplane Drive Cooling <b>Electrical Power S</b> AC Voltage and Frequency DC Power Supply +5VDC +5V Standby +12V +3.3V	VCCI, Class B CISPR-22, Class B AS/NZS 3548, Class B Rack 2U (3.46") (88 mm) 18.90"(480 mm) 24.10"(612 mm) 50 lbs. (minimum configuration) <b>Y</b> Supports 2x1.6" and 2x1" or 4x1" SCA 3.5" SCA Connectors Two fans <b>Supply</b> 115 v / 60 Hz; 230 v / 50 Hz 275W 20A maximum continuous 2.0A maximum continuous 14A maximum continuous
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Parallel Port Floppy Controller Keyboard/Mouse <b>System BIOS</b> BIOS Type Special Features Configuration Utilities <b>Jumpers and From</b> ATX Connectors <b>Server Manageme</b> Failure Detection	IEEE 1284, 25 pin bidirectional 1.44 MB PS/2, 8240A compatible 8 MB Flash EEPROM with Phoenix* BIOS, Multi- boot BBS (BIOS Boot Specification) 1.0 Compliant Plug and Play, IDE drive autoconfigure, DMI 2.0, ECC/Parity support, multilingual support and jumperless processor speed setup System Set-up Utility (SSU) enables easy system setup of BIOS and utilities, plug and play <b>t Panel Connectors</b> Speaker, reset, power LEDs, HD LED, power on/off Wake On LAN (WOL) Enable: flash configuration jumpers include: fault-resilient booting timer, boot-block protection, boot recovery, CMOS clear, password protect, BMC Forced Update <b>nt Instrumentation</b> Voltage variation, thermal, operating-system Watchdog Timer, fan failure, power-supply failure, processor status, ECC memory, heat-sink fan check Reset, power up/down control, read system event log (external modem required) Paging on 12 configurable events (external modem required)	Japan International Australia/New Zealand System Form Factor Height Width Depth Weight Hot-swap Drive Ba Drives SCSI Backplane Drive Cooling Electrical Power S AC Voltage and Frequency DC Power Supply +5VDC +5V Standby +12V +3.3V -5V -12V	VCCI, Class B CISPR-22, Class B AS/NZS 3548, Class B Rack 2U (3.46") (88 mm) 18.90"(480 mm) 24.10"(612 mm) 50 lbs. (minimum configuration) <b>V</b> Supports 2x1.6" and 2x1" or 4x1" SCA 3.5" SCA Connectors Two fans <b>Supply</b> 115 v / 60 Hz; 230 v / 50 Hz 275W 20A maximum continuous 2.0A maximum continuous 14A maximum continuous 0.2A maximum continuous 0.2A maximum continuous
Parallel Port Floppy Controller Keyboard/Mouse System BIOS BIOS Type Special Features Configuration Utilities Jumpers and From ATX Connectors Server Manageme Failure Detection	IEEE 1284, 25 pin bidirectional 1.44 MB PS/2, 8240A compatible 8 MB Flash EEPROM with Phoenix* BIOS, Multi- boot BBS (BIOS Boot Specification) 1.0 Compliant Plug and Play, IDE drive autoconfigure, DMI 2.0, ECC/Parity support, multilingual support and jumperless processor speed setup System Set-up Utility (SSU) enables easy system setup of BIOS and utilities, plug and play <b>t Panel Connectors</b> Speaker, reset, power LEDs, HD LED, power on/off Wake On LAN (WOL) Enable; flash configuration jumpers include: fault-resilient booting timer, boot-block protection, boot recovery, CMOS clear, password protect, BMC Forced Update <b>nt Instrumentation</b> Voltage variation, thermal, operating-system Watchdog Timer, fan failure, power-supply failure, processor status, ECC memory, heat-sink fan check Reset, power up/down control, read system event log (external modem required) Paging on 12 configurable events (external modem required) Nonvolatile storage to prevent loss of logs	Japan International Australia/New Zealand System Form Factor Height Width Depth Weight Hot-swap Drive Ba Drives SCSI Backplane Drive Cooling Electrical Power S AC Voltage and Frequency DC Power Supply +5VDC +5V Standby +12V +3.3V -5V	VCCI, Class B CISPR-22, Class B AS/NZS 3548, Class B Rack 2U (3.46") (88 mm) 18.90"(480 mm) 24.10"(612 mm) 50 lbs. (minimum configuration) <b>Y</b> Supports 2x1.6" and 2x1" or 4x1" SCA 3.5" SCA Connectors Two fans <b>SCA Connectors</b> Two fans <b>SCA CONECTOR</b> <b>SCA CONTRUE</b> <b>SCA SCA CONTRUE</b> <b>SCA SCA SCA SCA SCA SCA SCA SCA SCA SCA </b>
Parallel Port Floppy Controller Keyboard/Mouse System BIOS BIOS Type Special Features Configuration Utilities Jumpers and From ATX Connectors Server Managemet Failure Detection Emergency Remote Management Port Platform Event Paging Event Logging	IEEE 1284, 25 pin bidirectional 1.44 MB PS/2, 8240A compatible 8 MB Flash EEPROM with Phoenix* BIOS, Multi- boot BBS (BIOS Boot Specification) 1.0 Compliant Plug and Play, IDE drive autoconfigure, DMI 2.0, ECC/Parity support, multilingual support and jumperless processor speed setup System Set-up Utility (SSU) enables easy system setup of BIOS and utilities, plug and play <b>t Panel Connectors</b> Speaker, reset, power LEDs, HD LED, power on/off Wake On LAN (WOL) Enable; flash configuration jumpers include: fault-resilient booting timer, boot-block protection, boot recovery, CMOS clear, password protect, BMC Forced Update <b>nt Instrumentation</b> Voltage variation, thermal, operating-system Watchdog Timer, fan failure, power-supply failure, processor status, ECC memory, heat-sink fan check Reset, power up/down control, read system event log (external modem required) Paging on 12 configurable events (external modem required) Nonvolatile storage to prevent loss of logs in the event of system failure	Japan International Australia/New Zealand System Form Factor Height Width Depth Weight Hot-swap Drive Ba Drives SCSI Backplane Drive Cooling Electrical Power S AC Voltage and Frequency DC Power Supply +5VDC +5V Standby +12V +3.3V -5V -12V	VCCI, Class B CISPR-22, Class B AS/NZS 3548, Class B Rack 2U (3.46") (88 mm) 18.90"(480 mm) 24.10"(612 mm) 50 lbs. (minimum configuration) <b>V</b> Supports $2x1.6$ " and $2x1$ " or $4x1$ " SCA 3.5" SCA Connectors Two fans <b>Supply</b> 115 v / 60 Hz; 230 v / 50 Hz 275W 20A maximum continuous 2.0A maximum continuous 14A maximum continuous 14A maximum continuous 0.2A maximum continuous
Parallel Port Floppy Controller Keyboard/Mouse System BIOS BIOS Type Special Features Configuration Utilities Configuration Utilities Jumpers and From ATX Connectors Server Management Failure Detection	IEEE 1284, 25 pin bidirectional 1.44 MB PS/2, 8240A compatible 8 MB Flash EEPROM with Phoenix* BIOS, Multi- boot BBS (BIOS Boot Specification) 1.0 Compliant Plug and Play, IDE drive autoconfigure, DMI 2.0, ECC/Parity support, multilingual support and jumperless processor speed setup System Set-up Utility (SSU) enables easy system setup of BIOS and utilities, plug and play <b>t Panel Connectors</b> Speaker, reset, power LEDs, HD LED, power on/off Wake On LAN (WOL) Enable; flash configuration jumpers include: fault-resilient booting timer, boot-block protection, boot recovery, CMOS clear, password protect, BMC Forced Update <b>nt Instrumentation</b> Voltage variation, thermal, operating-system Watchdog Timer, fan failure, power-supply failure, processor status, ECC memory, heat-sink fan check Reset, power up/down control, read system event log (external modem required) Paging on 12 configurable events (external modem required) Nonvolatile storage to prevent loss of logs	Japan International Australia/New Zealand System Form Factor Height Width Depth Weight Hot-swap Drive Ba Drives SCSI Backplane Drive Cooling Electrical Power S AC Voltage and Frequency DC Power Supply +5VDC +5V Standby +12V +3.3V -5V -12V	VCCI, Class B CISPR-22, Class B AS/NZS 3548, Class B Rack 2U (3.46") (88 mm) 18.90"(480 mm) 24.10"(612 mm) 50 lbs. (minimum configuration) <b>Y</b> Supports 2x1.6" and 2x1" or 4x1" SCA 3.5" SCA Connectors Two fans <b>SCA Connectors</b> Two fans <b>SCA CONECTOR</b> <b>SCA CONTRUE</b> <b>SCA SCA CONTRUE</b> <b>SCA SCA SCA SCA SCA SCA SCA SCA SCA SCA </b>

l <sup>®</sup> Server Contr	ol (ISC)
ged Server	Operating systems supported:
	Windows NT* Server 4.0 SPS Solaris* 7.0
gement Consoles	ISC integrates into the leading
gement eeneelee	management supported consoles:
	Intel <sup>®</sup> LANDesk <sup>®</sup> Server Manager 6.01
	HP OpenView* Network Node Manager 5.02 CA TNG* Framework 2.01 for Windows NT*
I-alone Consoles	Microsoft Management Supported Console
	Internet Explorer* 3.02 and higher
	Netscape Navigator* 3.0 and higher with ActiveX* snap-in
m Health Monitor	Temperature, voltage, cooling fans, ECC memory,
	processor status, power-supply status, on-board
	NIC and SCSI; OS hang monitoring via
Natification	When a configured event takes place these
Notification	When a configured event takes place these methods of notification are available:
	Network broadcast, SNMP trap, writing into
	System Event log (nonvolatile storage),
al Event Actions	Message box Graceful operating system shutdown with reboot
ai Event Actions	or power off at administrator's discretion
	Immediate power off, reset or NMI
ronment	
ent Temperature	Operating 10°C to +35°C
ivo Humiditu	Nonoperating/storage -40°C to +70°C ambient Nonoperating 95% @ 30°C noncondensing
ive Humidity	Nonoperating 95% @ 50 C honcondensing
ulations y Regulations	
S. & Canada	UL1950-CSA 950
ope CE Mark	EN60950
•	Compliance to EU Directive 89/336/EEC
ernational	IEC60 950, CB Report and Certificate
rdic	EMKO-TSE (74-SEC) 207/94 – NEMKO
/RFI	
	FCC, CFR 47 Part 15, Class B
da OF Mark	ICES-003, Class B
e CE Mark	EN55022 and EN55024
า national	VCCI, Class B CISPR-22, Class B
alia/New Zealand	AS/NZS 3548, Class B
em	
Factor	Rack
t	2U (3.46") (88 mm)
1	18.90"(480 mm)
ı	24.10"(612 mm)
nt	50 lbs. (minimum configuration)
swap Drive Ba	У
s	Supports 2x1.6" and 2x1" or 4x1" SCA 3.5"
Backplane	SCA Connectors
Cooling	Two fans
trical Power S	upply
oltage	115 v / 60 Hz; 230 v / 50 Hz
d Frequency	275W
ower Supply C	275W 20A maximum continuous
c Standby	2.0A maximum continuous
, anaby	14A maximum continuous

# Intel Order Code: ISP2150 (server), FB2BRSPRSLW (spare kit)

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