



Intel® Modular Server built on Intel® Multi-Flex Technology

Real Life Benefits for Small to Medium-Sized Business



The Intel® Modular Server built on Intel® Multi-Flex Technology is a multi-dimensional server that eases the strain placed on IT administrators. In particular, IT administrators in small to medium-sized businesses (SMBs) are constantly asked to do more with less—to provide greater performance and reliability with fewer people and dollars.



Rapid Recovery – Anytime, Anywhere

Read on to see a conversation between two IT administrators. An IT administrator at a small retail business is leveraging the Intel Modular Server based on Intel Multi-Flex Technology to provide increased performance and availability to his end-users with less effort and fewer after-hours incidents. Meanwhile, an associate in an enterprise-sized business continues to face routine issues with tools that tie him to the office after business hours.

By providing high-end capabilities, improved flexibility, ease-of-use and exceptional value, the Intel Modular Server can help SMB IT administrators achieve the reliability and powerful management they need to reclaim their weekends.

IM conversation with Phil [-] [□] [X]

Nate (2:08 PM):
Are you online? Thought you got your weekends back when you took the new job with that huge company.

Phil (2:09 PM):
So did I, but we lost a server this morning. I'm still working to restore it. Why are you online?

Nate (2:10 PM):
Our Web server went down - we small businesses have fire drills too, just like you big ones. Horrible timing too, with the big sale coming next week.

Phil (2:10 PM):
Looks like we're both going to miss the holiday party downtown this weekend.

Nate (2:10 PM):
That's where you're wrong! I'm just finishing.

Phil (2:12 PM):
No way! Recovering servers in our network takes forever. Re-install OS, dig out backups, restore files, testing ... it takes up most of a whole day. You must have started early.

Nate (2:14 PM):
Nope - I just received the alert on my cell phone about 15 minutes ago. But I'm using our Intel Modular Server. With its combination of diskless servers and virtualized storage, I can easily failover my Web server to another server in minutes, without having to rebuild the failed server. I can worry about fixing the failed server on Monday.

Phil (2:15 PM):
And you can do all of that from home?

Nate (2:16 PM):
Anywhere ... anytime. It's got a secure Web-based admin console. I can see server, storage, and network status—and manage them—from any Internet connection.

Phil (2:18 PM):
Very cool. It's called the Intel Modular Server?

Nate (2:24 PM):
Yep. Well, we're back up. Got to run—see you later.

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Improved Uptime

As a SMB with a smaller IT infrastructure, you can't afford to have even one server down. The Intel Modular Server provides redundancy beyond rack-mounted or pedestal servers with RAID capabilities and server failover to help increase availability.

Improved Data Protection

Centralized backup with snapshot capabilities enables easier archiving with increased backup sessions. In case of a failure, this enables you to minimize loss of critical data.

End-to-End Management

Intel's Virtual Presence technology allows you to see what hardware is physically deployed in the chassis, and do bare-metal discovery of networking, storage, and servers, all from a single Web-based interface. See the status of the system and all of its components just like you were standing in front of it with Virtual Presence technology.

Exceptional Value

IM conversation with Phil — □ X

Nate (1:36 AM):
You're up late. Playing games instead of sleeping?

Phil (1:38 AM):
I wish! I'm helping the storage guys get the new SAN up and running. We have a tight deadline, and the management software isn't the most intuitive. I didn't realize that there was so much to deal with on SANs.

Nate (1:40 AM):
That sounds rough. I only had to know the basics to set up our new SAN. I was able to get it running without any problems and I'm no storage expert.

Phil (1:41 AM):
You have a new SAN? I thought you told me your small business had a small budget to match. Where'd you get budget for a SAN?

Nate (1:43 AM):
Remember the Intel Modular Server we talked about? It comes with up to six servers, a SAS-based SAN, and a GigE switch all in one chassis -and all for the same amount of money we're spending today on our standard rack and pedestal servers with RAID.

Phil (1:43 AM):
Wow! That sounds like a good deal. When did you have time to learn storage?

Nate (1:45 AM):
Well, to tell the truth, I didn't. With the Intel Modular Server's Virtual Presence technology, it's a snap to create storage pools, determine RAID levels, and create virtual drives. No additional training required.

Phil (1:46 AM):
What about controller cards for the SAS drives? That stuff is not cheap, and it's not easy.

Nate (1:48 AM):
If you can believe it, the Intel Modular Server also includes a SAS storage module (RAID controller card), pre-configured to work with the hard disk drives installed. And it has room for a second storage module for redundancy or increased throughput. I set up a redundant storage module in about two minutes. To top it off, installing additional or new drives is a snap—just plug them in and they're available for allocation using Virtual Presence. Again, no extra training.

Phil (1:48 AM):
I'm jealous.

Nate (1:53 AM):
Yeah, and this all comes in one chassis and works together seamlessly. My boss loves what I'm doing with the storage capabilities, but he agreed to this because of the great value on a complete system that provides better service levels.

Phil (1:55 AM):
It really sounds good. I'd love to get our new SAN up that easy.
Speaking of which, I've got to get back to work or I'm never going home.

Nate (1:56 AM):
Good luck!

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Cost Effective

Spend less money than you would for individual components, but get far greater capabilities: up to six servers, SAS-based SAN, and a GigE switch bundled and pre-configured, plus Virtual Presence for comprehensive, easy-to-use management. And because it is all in a single chassis, save 20%–30% on cooling and power costs.

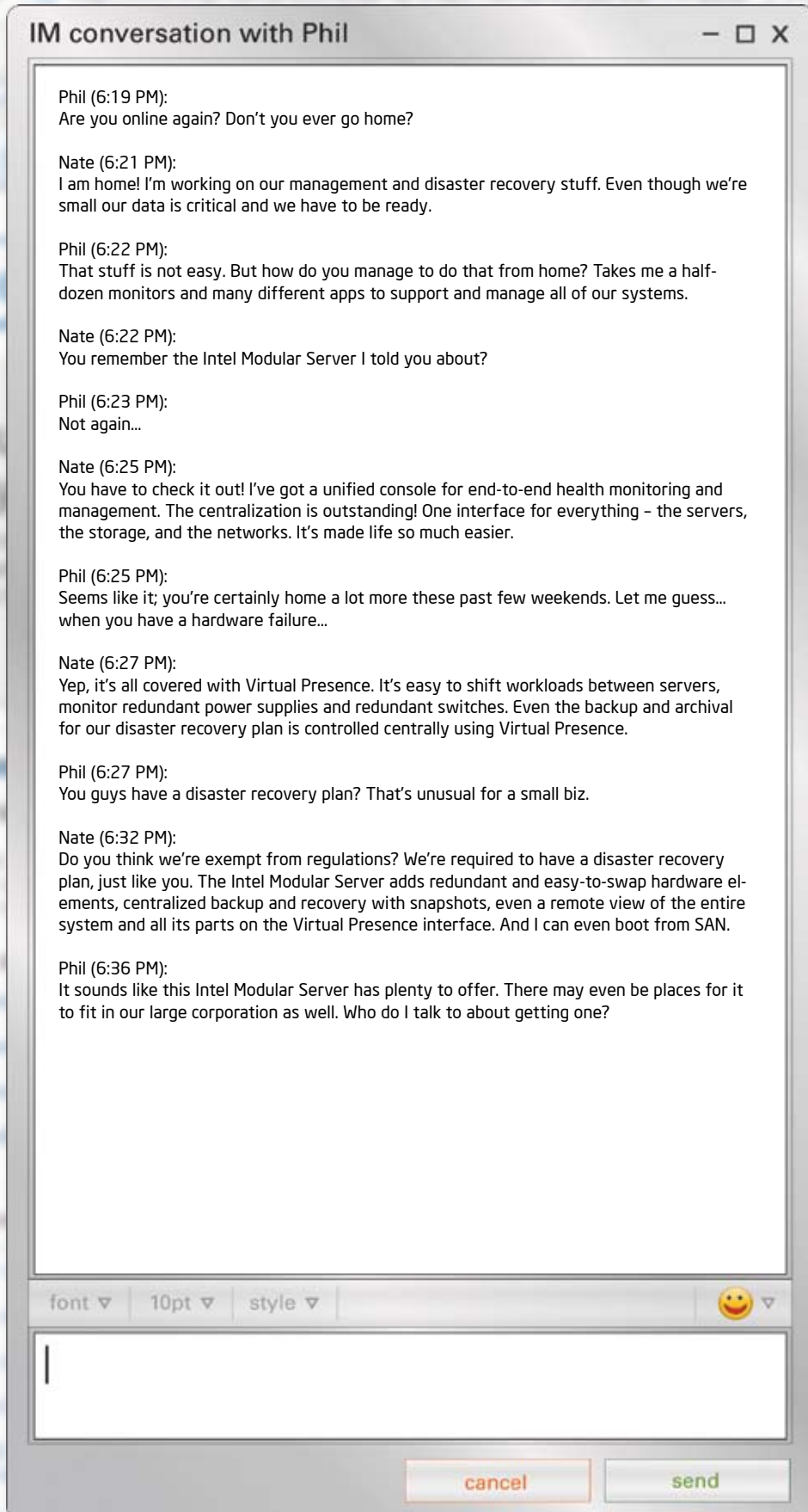
Improved Asset Utilization

Shared storage enables 100% utilization of all hard drives, so you don't waste money on under-used resources. Adding drives to scale your storage is a snap, with the Virtual Presence management interface. And the Intel Modular Server chassis is designed for multiple generations of CPUs, so your servers are fully utilized.

Reduced Complexity

A single system will reduce strain on IT resources. The simplification of servers, networking, and storage on a single chassis gives SMB IT administrators one less fire to fight.

Simple and Flexible



Unique Serviceability

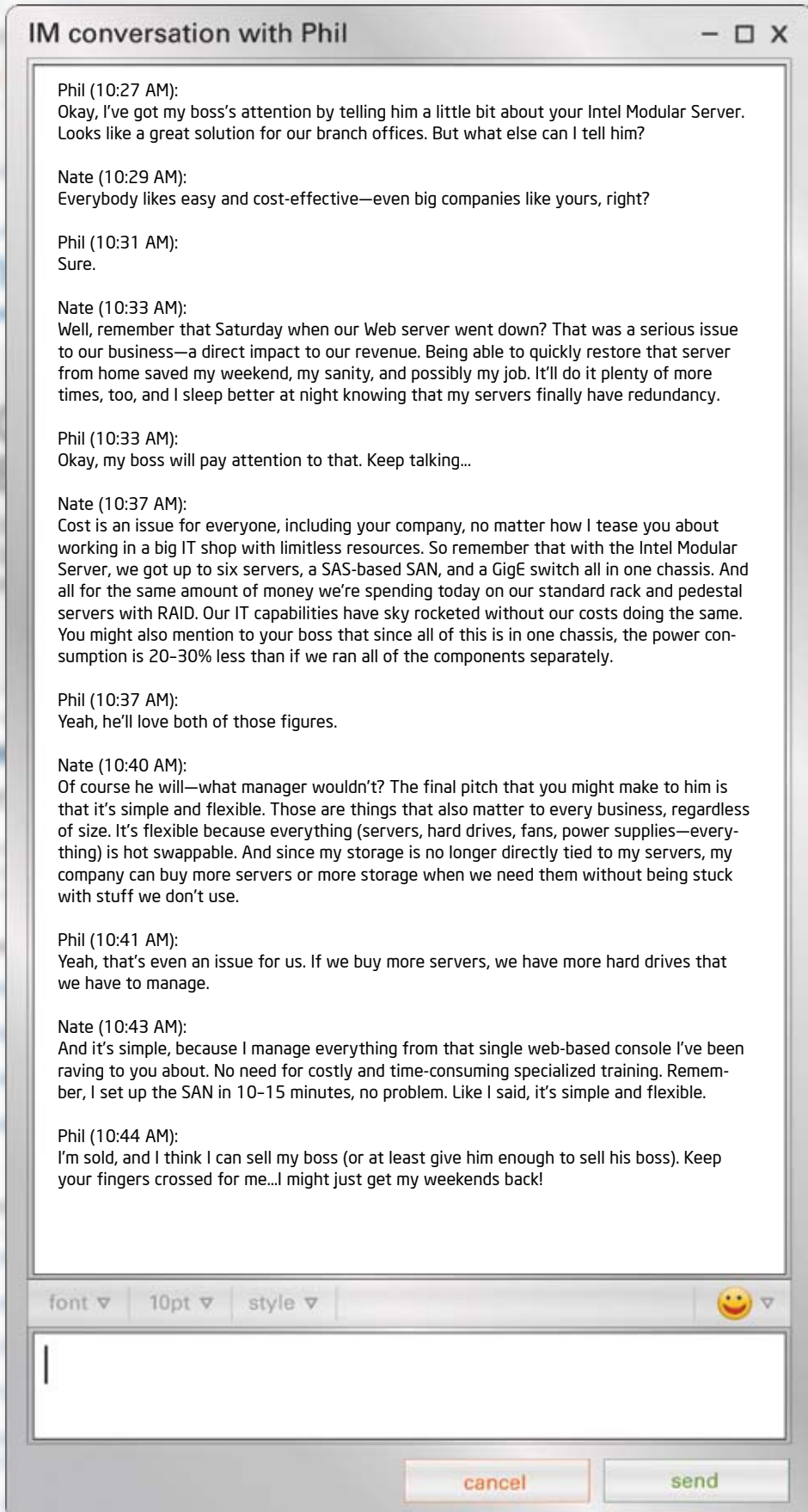
Servers, hard drives, fans, and power supplies are hot swappable with no tools required. As well, the Intel Modular Server's system management tools enable remote, out-of-band management from any location.

Grows as Your Business Grows

Complete separation of storage from servers lets you increase your storage and your compute capabilities at separate rates. Buy more storage and more processing power when you need it, but not before.

Improved Flexibility

Manage your systems instead of letting them manage you. Reduce IT management complexity as well as cabling by having server, storage, and network all in one easy-to-use chassis.



Simple

Today's SMB IT administrators are increasingly asked to do more with less. Being able to use time efficiently is not just a luxury—it is critical to providing the service levels expected. Having to manage a wide array of IT devices, each with different management tools and interfaces, can turn seemingly simple tasks into hours of struggle.

The Intel Modular Server simplifies systems management for IT administrators, freeing them to spend more time on proactive maintenance and allowing them react quicker to unexpected events. The Intel Modular Server provides the convenience of an all-in-one, integrated system with easy-to-use point-and-click management. Compute, storage, and network resources are combined into one chassis, all managed by a highly intuitive and secure Web-based interface.

Flexible

All IT systems experience capacity issues, bottlenecks, and failures. Resolving these issues can be challenging for any business, but especially for small and medium-sized businesses, where IT administrators are often stretched thin trying to maintain systems of varying ages, platforms, and capabilities.

Through a comprehensive set of flexibility features, the Intel Modular Server allows IT administrators to resolve these issues quickly and easily. The Intel Modular Server combines capacity-on-demand, hot-swappable and redundant compute and storage resources, virtualized storage with snapshots, and boot-from-SAN functionality—all managed by the powerful Virtual Presence interface.

Exceptional Value

Running an IT operation on a tight budget is one of the great challenges to businesses of all sizes. The Intel Modular Server gives you more bargaining power than ever before.

The Intel Modular Server reflects Intel's commitment to small and medium-sized businesses. Designed to make life easier on the overworked IT administrator, it brings compute, storage, and network resources together in one flexible and easy-to-manage device. The Intel Modular Server is an affordable, real solution for the IT challenges of today's SMB customers.



For more information about the Intel® Modular Server built on Intel® Multi-Flex Technology, visit:
www.intel.com/go/mft

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