iStor Networks, Inc.

Corporate Identity Design Manual

This manual summarizes the iStor Networks, Inc. style guidelines and establishes how they will present a uniform identity. The designs were constructed to be unique and easily identifiable; cutting-edge and colorful; open and easy-to-read; clear and concise.

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This style guide is separated into the following sections:

CORPORATE MISSION STATEMENT

"iStor Networks, Inc is an innovative technology leader in the development of iSCSI controllers, providing the perfect balance of price, performance, and features to make storage area networks a simple decision for every company and organization regardless of size or sophistication."

CONTACT INFORMATION

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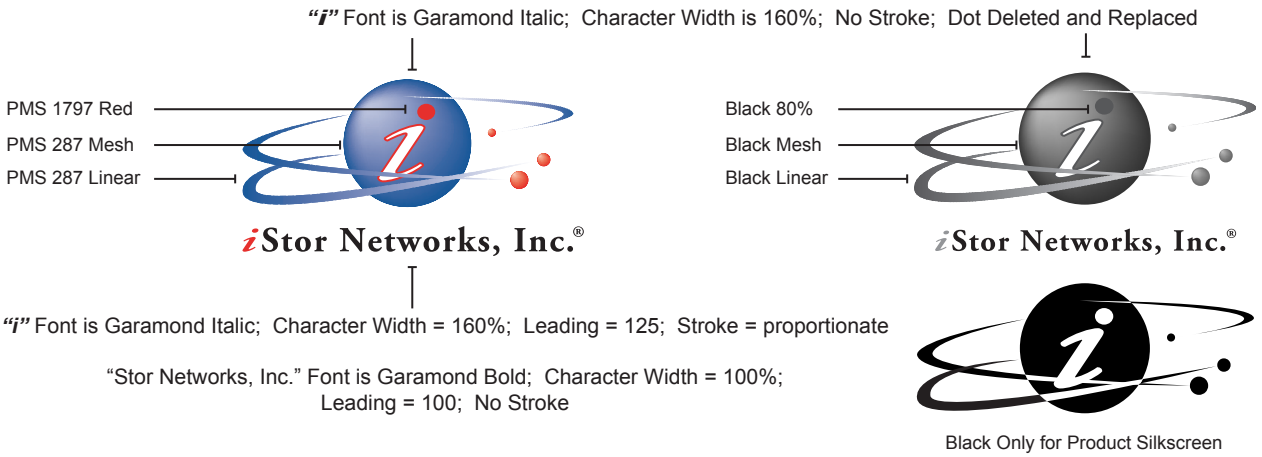
iStor Networks, Inc.®

Logos

The company name is iStor Networks, Inc. It may appear as “iStor Networks, Inc.,” “iStor Networks,” or “iStor” and be used as a noun; or as an adjective followed by an appropriate descriptor. For example, the iStor GigaStorATX Storage Server.

PRIMARY CORPORATE LOGO — COLOR, HALFTONE, AND BLACK

There are three primary versions of the corporate logo: color, halftone, and black. These implementations allow for flexibility in design — whether for creative purpose or cost. The color logo uses the iStor Networks corporate colors and should always be used on a white background with ample clear space.



SECONDARY CORPORATE LOGO

There is a secondary version of the color logo that is only to be used in rare circumstances where the available space for the logo would render the primary corporate logo unreadable such as an event guide. This logo also uses the iStor Networks corporate colors and should be used on a white background with ample clear space.

iStor

PROGRAM LOGO

To promote iStor technologies that are contained within third-party (OEM, VAR, Master Reseller) products, iStor has developed the iStor-iNabled product program. The program logo is based on the corporate logo and should always be used with ample clear space.

iStor-inAbled™

Colors

CORPORATE COLORS

There are five colors in the iStor Networks Corporate Color palette. They are acceptable for use in all corporate items, including: corporate and multi-product brochures; presentations; and the Web site.

PMS 287
C=100 M=68 Y=0 K=12
R=68 G=78 B=136
R=53 G=72 B=139

"Corporate Blue"

PMS Red 1797
C=0 M=100 Y=99 K=4
R=206 G=76 B=81
R=185 G=0 B=39

"Corporate Red"

C=0 M=0 Y=0 K=40
R=124 G=124 B=124
R=170 G=170 B=170

"Corporate Gray"

Black

White

Fonts

There are four approved font families for use in iStor Networks materials. Corporate colors can be applied to the fonts to add excitement and visual variety.

ADOBE GARAMOND

Adobe Garamond is an elegant serif font with the versatility of many font styles in the family. The "i" in the corporate logo is widened italic, while the remainder of the company name is bold. This font can be used for sub-headlines and captions.

[Garamond Regular] **[Garamond Bold]** *[Garamond Italic]* ***[Garamond Bold Italic]***

ARIAL

Arial is one of the most versatile san serif fonts and it is widely available across varying platforms. It should be used as the body text on the Web site, presentations, and e-mail.

[Arial Regular] **[Arial Bold]** *[Arial Italic]* ***[Arial Bold Italic]***

OPTIMA

Optima is an open, stylish, easily readable san serif font that performs well in a range of print media. It should be used as the body text in advertising.

[Optima Regular] **[Optima Bold]** *[Optima Italic]* ***[Optima Bold Italic]***

SERPENTINE

Serpentine is a distinctive, high-impact extended san serif font that should be used as an option for headlines and captions.

[Serpentine Bold Regular] ***[Serpentine Bold Italic]***

Product Information

iStor 1GbE GigaStorATX™

IP Storage Controllers Featuring
- Flexibility
- Cost Efficiency
- Performance

GigaStorATX is the Next Generation iSCSI RAID Controller, Providing Flexible, Affordable and High Performance iSCSI Storage.

As a highly integrated iSCSI storage controller solution, the GigaStorATX is designed to conform to ATX form factor specifications. This allows the use of off-the-shelf PC Server and Storage chassis. OEMs, VARs, and System Integrators can build high-performance, feature-rich, and cost-effective iSCSI RAID storage solutions.

The flexibility of the GigaStorATX enables current NAS or file-based providers the opportunity to create block-based, cost-effective RAID storage solutions by integrating the controller into their existing packaging and deploying the industry's latest technology — iSCSI with the forward-looking technology of the GigaStorATX. In addition, the GigaStorATX is enabling iSCSI SAN applications to replace parallel SCSI in DAS and NAS environments, and supplement/replace Fibre Channel in SAN environments.

At the heart of the GigaStorATX is the highly-integrated, high performance 10Gb/s iStor iSNP8008 iSCSI/TCP/IP offload ASIC. This chip has embedded processors running a fully featured, integrated storage-virtualization firmware stack. It also offers features such as Media Protection, Caching, Redundancy, End-to-End data protection, and RAID.

Serial ATA disk channels enable compelling block-based network storage solutions such as near line storage, disk-to-disk backup, DAS replacement along with high-capacity, cost-effective primary storage. Each GigaStorATX storage controller can support up to 16 Serial ATA disk drive interfaces assuring data integrity with Micro Rebuilds.

Key Features

- iSCSI RFC Standards
- Up to Eight GbE iSCSI Ports
- Up to 16 Serial ATA Disk Channels
- Persistent and Adaptive Cache Management
- Up to 4 GB Standard ECC DDR SDRAM
- VLAN-based Zoning
- Volume Virtualization
- IP SAN Device Manager

Adaptive and Persistent Cache Management

The iStor GigaStorATX supports write-back, write-through, write-coalescing, and multi-stream read-ahead on a volume basis. It optimizes cache utilization and performance in an application dependent manner.

Cache and its metadata will persist through sudden, unexpected power loss via an on-board battery that is designed to backup 4 GB of cache memory for a minimum of 72 hours. This allows for extensive write-coalescing and write-back caching that provides the fastest RAID performance offered in the industry.

Scalable Network Availability and Performance

Link Aggregation (IEEE 802.3ad), supported on the iStor GigaStorATX, allows users to scale host connectivity for performance and availability across any combination of up to eight GbE ports. Since the core of the GigaStorATX is the iStor iSNP8008, which is a 10Gb/s solution, more than sufficient performance exists to satisfy the most demanding iSCSI applications in the marketplace.

VLAN Zoning

The iStor GigaStorATX supports IEEE 802.1Q VLAN tagging to provide segregation of traffic into isolated zones for access security.

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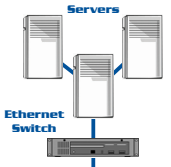

GigaStorATX Storage Subsystem Controller in Product Chassis/Enclosure

Volume Virtualization

The iStor GigaStorATX has a storage management software stack that provides volume virtualization features by utilizing the concepts of storage Extents. Extents are the fundamental building blocks used to enable features such as RAID, Online Capacity Expansion, and Volume Migration. Extents provide:

- Volumes that can be created from drives of dissimilar capacity and technology
- Growth that can occur without volume migration or reconstruction
- Single drives that can contain multiple and divergent RAID technologies
- Volume structure that provides infrastructure for Snapshot copies

IP SAN Device Manager

The comprehensive storage network management capabilities of the iStor GigaStorATX come from the iStor IP-SAN Device Manager (IDM). These IP Storage management utilities, communicating via SMI-S (Storage Management Initiative) with the devices, allowing users to remotely configure and monitor SAN storage subsystems using the SMI-S compliant tools. IDM is rich in management features, allowing users to manage their online network storage with uncommon ease and flexibility.

General

- iSNP ASIC: iSCSI/TCP/IP full offload, SCSI3, cache management, volume virtualization, and Serial ATA
- Management Processor: XPC8241 Motorola PowerPC®
- Cache Memory: ECC, 512 MB - 4 GB (Battery protected)
- System Memory: ECC, 512 MB
- Flash: 64 MB
- iSCSI: Up to eight GbE ports with full offload
- Maximum Storage Devices: Up to 16 drives (S-ATA)

Supported Configurations

- Microsoft® iSCSI Software Initiator Version 2.0
  - Supported Operating Systems: Windows® 2000 SP3, XP, XP Pro, Server® 2003
- QLogic® QLA4010C iSCSI PCI-X Adapter
  - Windows 2000, Server 2003 (32-bit and 64-bit)
- Adaptec® 7211C 1 Gb iSCSI Initiator
  - Microsoft Windows
- Intel® PRO/1000T IP Storage Adapter
  - Windows Server 2003, 2000, XP PRO
- Alacritech® iSCSI Accelerator
  - Any 32-bit system running Windows Server 2003, XP, 2000
- Future Testing and Qualification
  - LINUX™-iSCSI, Mac OS, Solaris®

Volume Virtualization Features

- JBOD, Striped sets, Mirrored sets, Striped Mirrored sets, and Parity sets
- 1024 Virtual Volumes (256 accessible per initiator)
- 1024 Target Nodes
- MC/S multiple connections/session
- iSCSI error recovery levels 0
- RAID level migration
- Free space defragmentation
- Online capacity expansion
- Write-through, write-back, write-coalescing, and read-ahead
- Battery-backed cache
- Automatic detection of failed drives
- Automatic rebuild of spare drive
- Hot-swapping of drives (enclosure dependent)
- Drive roaming during power off
- Micro rebuilds
- Instant volume accessibility

iSCSI Network Interface

- RFC Standard Track (RFC3720,RFC3721,RFC3723, RFC3783 and RFC3347) including features of CHAP Authentication and iSNS for discovery
- iSCSI/TCP/IP full hardware offload
- Network Interfaces: four, or eight ports of copper GbE
- Supports standard Ethernet switching fabric
- Jumbo Frames support
- Transfer rate: Up to 220 MB/s full duplex per port
- iSCSI digest (CRC) supported on header and data
- LAG (IEEE 802.3ad Link Aggregation Group) Support for up to eight LAGs
- VLAN (IEEE 802.1Q Tag) Support
  - Up to eight VLANs
  - One-to-one mapping between IP Subnet & VLAN
  - Multiple VLANs per physical port with VLAN tag
  - All LAG physical ports belong to the same VLAN
- QoS Support
  - Egress packet prioritization based on IETF DiffServ and IEEE 802.1P tag
- 1024 Connections
- TCP/IP Support
  - RFC 1122 compliant
  - TCP: Congestion management and flow control based on RFC 2581; Options: Maximum Segment Size (MS); Round Trip Time Measurement (RTTM); Window Scale
  - IP: Path MTU Discovery and IP Reassembly

Storage Network Management

- IP-SAN Device Manager (IDM)
  - Create, manage, expand, and monitor programs
  - Error statistics and performance information
- Embedded HTTPS server supporting
- CIM/SMIS standard
- Event Manager to view and persist events
- Firmware field upgradable

Electrical and Mechanical

- Power: 66 Watts (maximum battery charging rate)
- Temperature, Operating: 0 to 50˚ C
- Temperature, Non-Operating: -20 to 70˚ C
- Operating Humidity: 10% to 90% Non-condensing
- Storage Humidity: 5% to 95% Non-condensing
- ATX Form Factor 9.6" x 12"

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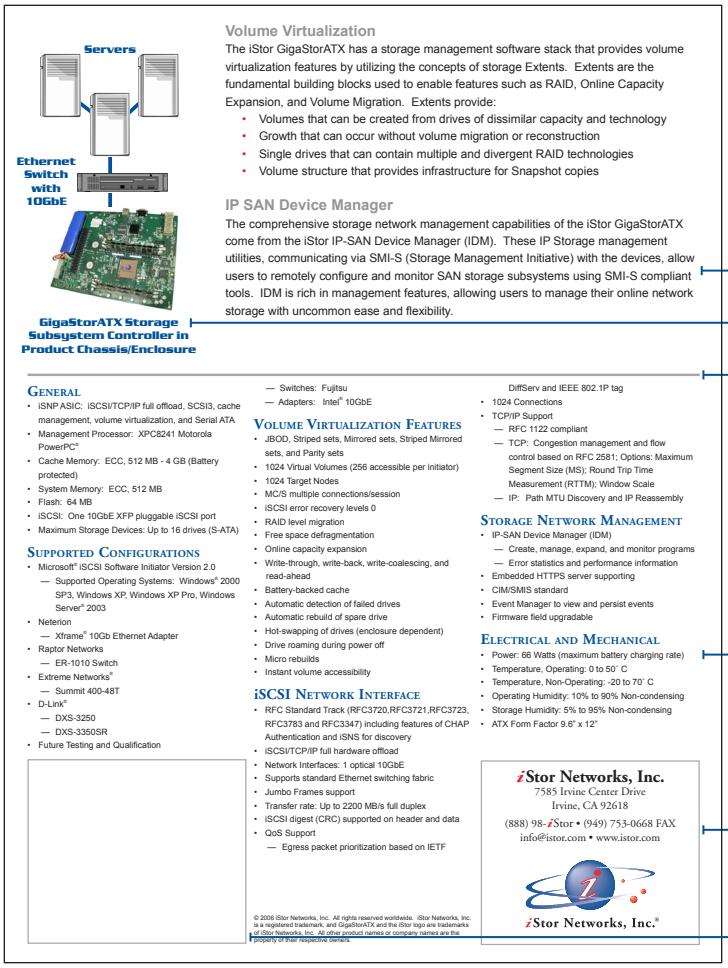
Brochures

PRODUCT — CORPORATE

The layout is structured to be used for multiple brochure types: sales brochures, corporate brochures, white papers, etc.

Brochure Type
Product Photo
Product Name
Headline
Product Photos
Key Features
Separation Rule
Left Alignment Rule
Logo
Continuation of Text
Illustration and Caption
Separation Rule
Specifications — 3 Columns
Address / Logo Block



Brochures

PRODUCT — VAR

The product brochure has an optional layout with extra clear space to accomodate customization by iStor partners.

Continuation of Text

Illustration and Caption

Separation Rule

Specifications — 3 Columns

Address / Logo Block

Clear Space For Partner Address / Logo Block

Style & Grammar

HYPHENATION

There are some basic rules for hyphenation:

- Adjective + noun: no hyphen
  Example: fixed annuities
- Compound adjective + noun: hyphenate
  [Exception: -ly is never hyphenated]
  Examples: four-step process
- Two vowels together: hyphenate for clarity
  Example: re-insert

iStor has made the following arbitrary decisions regarding specific hyphenation:

- Auto-hyphenation is always turned off.
- Hyphenated: e-mail
- Not hyphenated: online

CAPITALIZATION AND QUOTES

Commas, periods, exclamation, and question marks appear inside quote marks. Colons and semicolons go outside the quote mark.

Example: “Always use correct punctuation,” she said. “I agree!”

ARBITRARY SEMANTIC DECISIONS

These phrases have been decided for various nonlinguistic reasons:

Example: “make sure to” or “be sure of” — not “ensure”
“log into” — not “log in to” or “log on”

ARBITRARY STYLE DECISIONS

A comma is used as a separator between the last two items in a sentence list.

Example: This sentence has a list with one, two, and three items.

Trademarks: iStor & Third Party

iStor Networks, Inc. protects its trademarks and acknowledges the trademarks of other third-parties.

USAGE

iStor trademarks should never be used in a possessive or plural form, but should be introduced as a noun or a proper adjective followed by an appropriate descriptor.

Correct: The GigaStorATX Storage Controller from iStor Networks, Inc.® is a superior solution for mass network storage.
Incorrect: iStor's GigaStorATX Storage Controller is a superior solution for mass network storage.

iStor TRADEMARKS

The following names, words, symbols, and phrases are registered trademarks of iStor Networks, Inc.

- **iStor Networks, Inc.®**

Registered trademarks of iStor Networks, Inc. should be designated with a registered trademark symbol (®) on their first occurence in the text of a document. This symbol should be one-half the size of the font being used for the mark and positioned as superscript at the same one-half size.

Trademarks of iStor Networks, Inc. should be designated with a trademark symbol (™) on their first occurence in the text of a document. This symbol should be one-half the size of the font being used for the mark and positioned as superscript at the same one-half size.

THIRD-PARTY TRADEMARKS

The following names, words, symbols, and phrases are trademarks of their respective owners.

- **Microsoft®**
- **Windows®**
- **LINUX™**

Third-party registered trademarks should be designated with a registered trademark symbol (®) and trademarks should be designated with a trademark symbol (™) on their first occurence in the text of a short document. This symbol should be one-half the size of the font being used for the mark and positioned as superscript at the same one-half size.

CREDIT LINE

All iStor Networks, Inc., partner, and third-party registered trademarks and trademarks should be given appropriate acknowledgement in the copyright legal section of each document. Some companies provide specific instructions to which iStor Networks should adhere.

Example: