

EonStor DS - Fibre Series



Highlights

Reliability and Availability

- Local and remote replication functionality enables quick data recovery after logical errors and physical errors
- Redundant and hot-swappable hardware components eliminate single point of failure
- Multiple hardware RAID levels protect data against drive failure
- CacheSafe technology protects cached data during a power outage

Performance

- Leading performance supports demanding business applications
- Leverage 2.5-inch drives to achieve optimal performance density
- Hybrid host connectivity models offer cost-effective remote replication and SAN tiering

Scalability

- Scale storage capacity (up to 224 drives) as needed through expansion enclosures

Management

- User-friendly and intuitive SANWatch interface allows for simple storage management

Green

- Energy efficient power supplies
- Dynamic cooling
- Intelligent multi-level drive spin-down

Downtime can have serious consequences for enterprises and SMBs. The challenge for SMBs is to pro-actively prevent downtime within a limited budget. With today's price points in mind, the EonStor DS storage solution provides comprehensive data protection to ensure the highest data availability for the storage area network (SAN) and direct attached storage (DAS). Coupled with advanced hardware design, modular architecture, easy and intuitive management and exceptional price-performance, EonStor DS brings price-conscious companies a decisive competitive edge by making IT efficiency keep up with growing storage needs.

High-Availability SAN Delivers Great Price-Performance

Data availability is critical to any business operation. Infortrend EonStor DS storage solution features high-availability hardware designs with redundant, hot-swappable hardware components, such as RAID controllers, power supplies and cooling fans to eliminate single point of failure. Hardware RAID protection ensures data accessibility during drive failure. In the event of a power outage, CacheSafe technology will automatically leverage power of the Battery Backup Unit (BBU) to safeguard cached data by writing it to the flash module for permanent retention. To protect valuable data sets against more critical threats, EonStor DS also supports local and remote replication capabilities. Data availability can be achieved with minimal downtime in case of human errors or data volume failure by employing the EonStor DS replication features. Leveraging Infortrend's world class RAID engine and Fibre Channel protocol, EonStor DS storage solution delivers breakthrough performance for demanding business applications. The models supporting Small Form Factor (SFF) drives can further increase performance density to support highly IO-intensive applications.

Flexible Scalability

The EonStor DS storage solution supports dynamic scaling to aid in the planning for future storage growth while satisfying the current storage needs. Flexible drive type and capacity support (2.5-inch or 3.5-inch, SAS or FC, and various drive sizes) satisfies current applications and enables you to accommodate future needs. EonStor DS storage solution can be expanded to more than two hundred drives to meet the proliferation of storage growth. The "scale as you grow" flexibility of the EonStor DS storage solution minimizes the upfront investment and provides the best overall Total Cost of Acquisition (TCA).

Intuitive and Easy Management

Storage management should be simple. The EonStor DS storage solution includes a comprehensive management software suite, SANWatch, to centrally manage multiple EonStor DS subsystems over a standard TCP/IP network. EonStor DS status and event information summary can be viewed on the portal window. Necessary functions to configure, manage and monitor the EonStor DS are only a few clicks away. Besides providing all firmware features through a user-friendly GUI, SANWatch also supports script-based configuration of multiple EonStor DS subsystems simultaneously. Automatic critical event notifications can be customized to suit the most critical storage environment. SANWatch will guide users through initializing, configuring and maintaining the EonStor DS every step of the way.

High Energy Efficiency

Contributing to environmental sustainability, the EonStor DS storage solution enables energy cost-savings while maintaining performance. It is equipped with power saving designs such as high-efficiency power supplies, dynamic cooling mechanism and intelligent multi-level drive spin-down technology.

	ESDS S24F-R2840 ESDS S24F-G2840	ESDS S16F-R2842 ESDS S16F-G2842	ESDS S16F-R2840 ESDS S16F-G2840	ESDS S12F-R2840 ESDS S12F-G2840
Hardware Configurations				
Storage Controller	Dual redundant or single			
Host Connectivity (per controller)	4 x 8Gb/s FC ports	4 x 8Gb/s FC ports + 2 x 1GbE iSCSI ports	4 x 8Gb/s FC ports	4 x 8Gb/s FC ports
Cache Memory (per controller)	Default 1GB ¹ , up to 4GB			
Drive Connectivity	Exclusively 6Gb/s SAS			
Max. Drives (per system)	24	16	16	12
Max. Drives (via JBOD)	104	112	112	84
Expansion Enclosure (JBOD)	ESDS S16S-J2000-R ESDS S16S-J2000-S	ESDS S16S-J2000-R ESDS S16S-J2000-S	ESDS S16S-J2000-R ESDS S16S-J2000-S	ESDS S12S-J2000-R ESDS S12S-J2000-G
SAS Expansion Port	1 x 6Gb/s SAS 4x wide port per controller			
Supported Drives ²	300GB, 450GB or 600GB - 3.5" 15,000 RPM 6Gb/s SAS drives 1TB or 2TB - 3.5" 7,200 RPM 6Gb/s Nearline SAS drives 300GB, 450GB or 600GB - 2.5" 10,000 RPM 6Gb/s SAS drives			
Power Supplies	Three redundant 405W	Two redundant 530W	Two redundant 530W	Two redundant 530W Two redundant 350W
Form Factor ³	4U, 19-inch rackmount	3U, 19-inch rackmount	3U, 19-inch rackmount	2U, 19-inch rackmount
Green	80 PLUS-certified power supplies ⁴ delivering more than 80% energy efficiency Intelligent multi-level drive spin-down			
RAID Configurations	RAID level 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 Up to 32 logical drives and 64 partitions per logical volume Up to 1024 LUNs			
Data Services				
Local Replication ⁵	Snapshot	Snapshot images per source volume Snapshot images per system	Standard License: 64 / Advanced License: 256 Standard License: 1,024 / Advanced License: 4,096	
	Volume Mirror/Copy	Source volumes per system Replication pairs per source volume Replication pairs per system	Standard License: 16 / Advanced License: 32 Standard License: 4 / Advanced License: 8 Standard License: 64 / Advanced License: 256	
Remote Replication ⁶	Replication source volume Replication pairs per source volume Replication pairs per system	16 4 64		
Thin Provisioning ⁶	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space.			
Availability and Reliability	Redundant, hot-swappable hardware modules Multi-pathing support (EonPath); Device mapper support CacheSafe technology: protects cached data during power outage by flushing data into flash memory			
Management	SANWatch management suite; Embedded RAIDWatch; Terminal via RS-232C; Telnet/SSH; LCD keypad panel			
Notification	Email, Fax, LAN broadcast, SNMP traps, SMS, MSN messenger			
OS Support²	Windows Server 2003, Windows Server 2008, 2008 R2 (including Hyper-V), Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, VMware			
Service and Support⁷				
Standard Service	3-year limited hardware/software warranty and 8x5 phone, web and email support			
Upgrade/Extension Options ⁸	Replacement part dispatch on the next business day (up to 5 years) Advanced Service: 24x7 phone, web and email support + onsite diagnostics on the next business day (up to 5 years) Premium Service: 24x7 phone, web and email support + onsite diagnostics in 4 hours (up to 5 years) Extended Standard Service up to 5 years			

1. Default capacity may vary by region.

2. For the latest compatibility details, please contact our sales representatives.

3. For detailed dimensions, please check the Infotrend website.

4. On the ESDS S16F-R2842, ESDS S16F-G2842, ESDS S16F-R2840, ESDS S16F-G2840 and ESDS S12F-R2840.

5. Standard functions come default with EonStor DS systems. Advanced functions are available with optional license.

6. Available with optional license.

7. All EonStor DS systems are shipped with Standard Service. Software maintenance covers the software licenses for EonStor DS systems.

8. Options may vary by region.

	ESDS B24F-R2842 ESDS B24F-G2842	ESDS B24F-R2840 ESDS B24F-G2840	ESDS B12F-R2840 ESDS B12F-G2840
Hardware Configurations			
Storage Controller	Dual redundant or single		
Host Connectivity (per controller)	4 x 8Gb/s FC ports + 2 x 1GbE iSCSI ports	4 x 8Gb/s FC ports	4 x 8Gb/s FC ports
Cache Memory (per controller)	Default 1GB ¹ , up to 4GB		
Drive Connectivity	Exclusively 6Gb/s SAS		
Max. Drives (per system)	24	24	12
Max. Drives (via JBOD)	144 ²	144 ²	108 ³
Expansion Enclosure (JBOD)	ESDS B24S-J2000-R ESDS S16S-J2000-R ⁴ ESDS S12S-J2000-R ⁴	ESDS B24S-J2000-R ESDS S16S-J2000-R ⁴ ESDS S12S-J2000-R ⁴	ESDS B12S-J2000-R ESDS S16S-J2000-R ⁴ ESDS S12S-J2000-R ⁴
	ESDS B24S-J2000-S ESDS S16S-J2000-S ⁴ ESDS S12S-J2000-G ⁴	ESDS B24S-J2000-S ESDS S16S-J2000-S ⁴ ESDS S12S-J2000-G ⁴	ESDS B12S-J2000-G ESDS S16S-J2000-S ⁴ ESDS S12S-J2000-G ⁴
SAS Expansion Port	1 x 6Gb/s SAS 4x wide port per controller		
Supported Drives ⁵	300GB, 450GB, 600GB - 2.5" 10,000 RPM 6Gb/s SAS drives		
Power Supplies	Two redundant 530W	Two redundant 530W	Two redundant 380W Two redundant 250W
Form Factor ⁶	2U, 19-inch rackmount	2U, 19-inch rackmount	1U, 19-inch rackmount
Green	Intelligent multi-level drive spin-down Dynamic cooling		
RAID Configurations	RAID level 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 Up to 32 logical drives and 64 partitions per logical volume Up to 1024 LUNs		
Data Services			
Local Replication ⁷	Snapshot	Snapshot images per source volume Snapshot images per system	Standard License: 64 / Advanced License: 256 Standard License: 1,024 / Advanced License: 4,096
	Volume Mirror/Copy	Source volumes per system Replication pairs per source volume Replication pairs per system	Standard License: 16 / Advanced License: 32 Standard License: 4 / Advanced License: 8 Standard License: 64 / Advanced License: 256
Remote Replication ⁸	Replication source volume Replication pairs per source volume Replication pairs per system	16 4 64	
Thin Provisioning ⁸	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space.		
Availability and Reliability	Redundant, hot-swappable hardware modules Multi-pathing support (EonPath); Device mapper support CacheSafe technology: protects cached data during power outage by flushing data into flash memory		
Management	SANWatch management suite; Embedded RAIDWatch; Terminal via RS-232C; Telnet/SSH; LCD keypad panel		
Notification	Email, Fax, LAN broadcast, SNMP traps, SMS, MSN messenger		
OS Support⁵	Windows Server 2003, Windows Server 2008, 2008 R2 (including Hyper-V), Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, VMware		
Service and Support⁹			
Standard Service	3-year limited hardware/software warranty and 8x5 phone, web and email support		
Upgrade/Extension Options ¹⁰	Replacement part dispatch on the next business day (up to 5 years) Advanced Service: 24x7 phone, web and email support + onsite diagnostics on the next business day (up to 5 years) Premium Service: 24x7 phone, web and email support + onsite diagnostics in 4 hours (up to 5 years) Extended Standard Service up to 5 years		

1. Default capacity may vary by region.

2. Using five ESDS B24S expansion enclosures.

3. Using six ESDS S16S expansion enclosures.

4. The ESDS S16S/S12S expansion enclosures support 300GB, 450GB, 600GB 3.5" 15,000 RPM 6Gb/s SAS drives and 500GB, 1TB, 2TB 3.5" 7,200 RPM 6Gb/s Nearline SAS drives.

5. For the latest compatibility details, please contact our sales representatives.

6. For detailed dimensions, please check the Infotrend website.

7. Standard functions come default with EonStor DS systems. Advanced functions are available with optional license.

8. Available with optional license.

9. All EonStor DS systems are shipped with Standard Service. Software maintenance covers the software licenses for EonStor DS systems.

10. Options may vary by region.

	ESDS S24F-R1840 ESDS S24F-G1840	ESDS S16F-R1840 ESDS S16F-G1840	ESDS S12F-R1840 ESDS S12F-G1840
Hardware Configurations			
Storage Controller	Dual redundant or single		
Host Connectivity	4 x 8Gb/s FC ports per controller		
Cache Memory (per controller)	Default 1GB ¹ , up to 4GB		
Drive Connectivity	Exclusively 3Gb/s SAS		
Max. Drives (per system)	24	16	12
Max. Drives (via JBOD)	104	112	84
Expansion Enclosure (JBOD)	ESDS S16S-J1000-R ES S16S-J1000-R ESDS S16S-J1000-S ES S16S-J1000-S	ESDS S16S-J1000-R ES S16S-J1000-R ESDS S16S-J1000-S ES S16S-J1000-S	ESDS S12S-J1002-R ES S12S-J1002-R ESDS S12S-J1000-G ES S12S-J1000-G
SAS Expansion Port (per controller)	1 x 3Gb/s SAS 4x wide port		
Supported Drives ²	300GB or 450GB - 3.5" 15,000 RPM 3Gb/s SAS drives 450GB or 600GB - 3.5" 15,000 RPM 6Gb/s SAS drives 1TB or 2TB - 3.5" 7,200 RPM 6Gb/s Nearline SAS drives		
Power Supplies	Three redundant 405W	Two redundant 530W	Two redundant 530W Two redundant 350W
Form Factor ³	4U, 19-inch rackmount	3U, 19-inch rackmount	2U, 19-inch rackmount
Green	80 PLUS-certified power supplies ⁴ delivering more than 80% energy efficiency Intelligent multi-level drive spin-down		
RAID Configurations	RAID level 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 Up to 32 logical drives and 64 partitions per logical volume Up to 1024 LUNs		
Data Services			
Local Replication ⁵	Snapshot	Snapshot images per source volume Snapshot images per system	Standard License: 64 / Advanced License: 256 Standard License: 1,024 / Advanced License: 4,096
	Volume Mirror/Copy	Source volumes per system Replication pairs per source volume Replication pairs per system	Standard License: 16 / Advanced License: 32 Standard License: 4 / Advanced License: 8 Standard License: 64 / Advanced License: 256
Remote Replication ⁶	Replication source volume Replication pairs per source volume Replication pairs per system	16 4 64	
Thin Provisioning ⁶	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space.		
Availability and Reliability	Redundant, hot-swappable hardware modules Multi-pathing support (EonPath); Device mapper support CacheSafe technology: protects cached data during power outage by flushing data into flash memory		
Management	SANWatch management suite; Embedded RAIDWatch; Terminal via RS-232C; Telnet/SSH; LCD keypad panel		
Notification	Email, Fax, LAN broadcast, SNMP traps, SMS, MSN messenger		
OS Support²	Windows Server 2003, Windows Server 2008, 2008 R2 (including Hyper-V), Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, VMware		
Service and Support⁷			
Standard Service	3-year limited hardware/software warranty and 8x5 phone, web and email support		
Upgrade/Extension Options ⁸	Replacement part dispatch on the next business day (up to 5 years) Advanced Service: 24x7 phone, web and email support + onsite diagnostics on the next business day (up to 5 years) Premium Service: 24x7 phone, web and email support + onsite diagnostics in 4 hours (up to 5 years) Extended Standard Service up to 5 years		

1. Default capacity may vary by region.

2. For the latest compatibility details, please contact our sales representatives.

3. For detailed dimensions, please check the Infotrend website.

4. On the ESDS S16F-R1840, ESDS S16F-G1840 and ESDS S12F-R1840.

5. Standard functions come default with EonStor DS systems. Advanced functions are available with optional license.

6. Available with optional license.

7. All EonStor DS systems are shipped with Standard Service. Software maintenance covers the software licenses for EonStor DS systems.

8. Options may vary by region.

	ESDS S24F-R1440 ESDS S24F-G1440	ESDS S16F-R1440 ESDS S16F-G1440	ESDS S12F-R1440 ESDS S12F-G1440
Hardware Configurations			
Storage Controller	Dual redundant or single		
Host Connectivity	2 x 4Gb/s FC ports per controller		
Cache Memory (per controller)	Default 1GB ¹ , up to 4GB		
Drive Connectivity	Exclusively 3Gb/s SAS		
Max. Drives (per system)	24	16	12
Max. Drives (via JBOD)	104	112	84
Expansion Enclosure (JBOD)	ESDS S16S-J1000-R ES S16S-J1000-R	ESDS S16S-J1000-R ES S16S-J1000-R	ESDS S12S-J1002-R ES S12S-J1002-R
	ESDS S16S-J1000-S ES S16S-J1000-S	ESDS S16S-J1000-S ES S16S-J1000-S	ESDS S12S-J1000-G ES S12S-J1000-G
SAS Expansion Port (per controller)	1 x 3Gb/s SAS 4x wide port		
Supported Drives ²	300GB or 450GB - 3.5" 15,000 RPM 3Gb/s SAS drives 450GB or 600GB - 3.5" 15,000 RPM 6Gb/s SAS drives 1TB or 2TB - 3.5" 7,200 RPM 6Gb/s Nearline SAS drives		
Power Supplies	Three redundant 405W	Two redundant 530W	Two redundant 530W Two redundant 350W
Form Factor ³	4U, 19-inch rackmount	3U, 19-inch rackmount	2U, 19-inch rackmount
Green	80 PLUS-certified power supplies ⁴ delivering more than 80% energy efficiency Intelligent multi-level drive spin-down		
RAID Configurations	RAID level 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 Up to 32 logical drives and 64 partitions per logical volume Up to 1024 LUNs		
Data Services			
Local Replication ⁵	Snapshot	Snapshot images per source volume Snapshot images per system	Standard License: 64 / Advanced License: 256 Standard License: 1,024 / Advanced License: 4,096
	Volume Mirror/Copy	Source volumes per system Replication pairs per source volume Replication pairs per system	Standard License: 16 / Advanced License: 32 Standard License: 4 / Advanced License: 8 Standard License: 64 / Advanced License: 256
Remote Replication ⁶	Replication source volume Replication pairs per source volume Replication pairs per system	16 4 64	
Thin Provisioning ⁶	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space.		
Availability and Reliability	Redundant, hot-swappable hardware modules Multi-pathing support (EonPath); Device mapper support CacheSafe technology: protects cached data during power outage by flushing data into flash memory		
Management	SANWatch management suite; Embedded RAIDWatch; Terminal via RS-232C; Telnet/SSH; LCD keypad panel		
Notification	Email, Fax, LAN broadcast, SNMP traps, SMS, MSN messenger		
OS Support²	Windows Server 2003, Windows Server 2008, 2008 R2 (including Hyper-V), Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, VMware		
Service and Support⁷			
Standard Service	3-year limited hardware/software warranty and 8x5 phone, web and email support		
Upgrade/Extension Options ⁸	Replacement part dispatch on the next business day (up to 5 years) Advanced Service: 24x7 phone, web and email support + onsite diagnostics on the next business day (up to 5 years) Premium Service: 24x7 phone, web and email support + onsite diagnostics in 4 hours (up to 5 years) Extended Standard Service up to 5 years		

1. Default capacity may vary by region.

2. For the latest compatibility details, please contact our sales representatives.

3. For detailed dimensions, please check the Infotrend website.

4. On the ESDS S16F-R1440, ESDS S16F-G1440 and ESDS S12F-R1440.

5. Standard functions come default with EonStor DS systems. Advanced functions are available with optional license.

6. Available with optional license.

7. All EonStor DS systems are shipped with Standard Service. Software maintenance covers the software licenses for EonStor DS systems.

8. Options may vary by region.

	ESDS FF-R4031 ESDS FF-S4031	ESDS F16F-R4031-6 ESDS F16F-S4031-6	ESDS F16F-R4031-4 ESDS F16F-S4031-4	ESDS F16F-R4840 ESDS F16F-S4840
Hardware Configurations				
Storage Controller ¹	Dual redundant or single			
No. of Host Channels	4 or 2 ² (4Gb/s)	4 or 2 ² (4Gb/s)	2 ² (4Gb/s)	2 per controller (8Gb/s)
Cache Memory (per controller)	Default 1GB, up to 2GB	Default 1GB, up to 2GB	Default 1GB, up to 2GB	Default 1GB ³ , up to 4GB
No. of Drives (Exclusively 4Gb/s FC)	-	16	16	16
Max. No. of Drives (via SBOD)	224	224	112	112
Expansion Enclosure (SBOD)	ES F16F-J4000-R ES A16F-J2430-G	ES F16F-J4000-R ES A16F-J2430-G	ES F16F-J4000-R ES A16F-J2430-G	ES F16F-J4000-R ES A16F-J2430-G
No. of Drive Expansion Channels (4Gb/s FC)	4 or 2	4 or 2	2	4
Power Supplies	Two redundant 250W	Two redundant 530W	Two redundant 530W	Two redundant 530W
Form Factor ⁴	1U, 19-inch rackmount	3U, 19-inch rackmount	3U, 19-inch rackmount	3U, 19-inch rackmount
Green	80 PLUS-certified power supplies ⁵ delivering more than 80% energy efficiency Intelligent multi-level drive spin-down			
RAID Configurations	RAID level 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 Up to 32 logical drives and 64 partitions per logical volume Up to 1024 LUNs			
Data Services				
Local Replication ⁶	Snapshot	Snapshot images per source volume Snapshot images per system	Standard License: 64 / Advanced License: 256 Standard License: 1,024 / Advanced License: 4,096	
	Volume Mirror/Copy	Source volumes per system Replication pairs per source volume Replication pairs per system	Standard License: 16 / Advanced License: 32 Standard License: 4 / Advanced License: 8 Standard License: 64 / Advanced License: 256	
Remote Replication ⁷	Replication source volume Replication pairs per source volume Replication pairs per system	16 4 64		
Thin Provisioning ⁷	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space.			
Availability and Reliability	Redundant, hot-swappable hardware modules Multi-pathing support (EonPath); Device mapper support CacheSafe technology ⁸ : protects cached data during power outage by flushing data into flash memory			
Management	SANWatch management suite; Embedded RAIDWatch; Terminal via RS-232C; Telnet/SSH; LCD keypad panel			
Notification	Email, Fax, LAN broadcast, SNMP traps, SMS, MSN messenger			
OS Support⁹	Windows Server 2003, Windows Server 2008, 2008 R2 (including Hyper-V), Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, VMware			
Service and Support¹⁰				
Standard Service	3-year limited hardware/software warranty and 8x5 phone, web and email support			
Upgrade/Extension Options ¹¹	Replacement part dispatch on the next business day (up to 5 years) Advanced Service: 24x7 phone, web and email support + onsite diagnostics on the next business day (up to 5 years) Premium Service: 24x7 phone, web and email support + onsite diagnostics in 4 hours (up to 5 years) Extended Standard Service up to 5 years			

- Single-controller models can be upgraded to dual-controller models.
- If the default hub function is disabled on dual-controller models, the no. of host channels can be doubled, as follows:
ESDS FF-R4031: 8 or 4 / ESDS F16F-R4031-6: 8 or 4 / ESDS F16F-R4031-4: 4.
- Default capacity may vary by region.
- For detailed dimensions, please check the Infotrend website.
- On the ESDS F16F-R4840 and ESDS F16F-S4840.
- Standard functions come default with EonStor DS systems. Advanced functions are available with optional license.
- Available on the ESDS F16F-R4840 and ESDS F16F-S4840 with optional license.
- CacheSafe technology only available on the ESDS F16F-R4840 and ESDS F16F-S4840.
- For the latest compatibility details, please contact our sales representatives.
- All EonStor DS systems are shipped with Standard Service. Software maintenance covers the software licenses for EonStor DS systems.
- Options may vary by region.

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