

# Veritas Storage Foundation™ Cluster File System リリースノート

Solaris

5.0



# Veritas Storage Foundation Cluster File System リリースノート

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Storage Foundation Cluster File System 5.0

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### ライセンスと登録

Veritas Storage Foundation Cluster File System はライセンスが必要な製品です。ライセンスのインストールについては、『Veritas Storage Foundation Cluster File System インストールガイド』を参照してください。

### テクニカルサポート

製品のサポートを受けるには、<http://support.veritas.com> ページへアクセスし「Phone Support」または「E-mail Support」をクリックします。このページから TechNote、Software Alerts、ソフトウェアのダウンロード、ハードウェア互換性リスト、VERITAS Email Notifications サービスなどにアクセスすることもできます。「Knowledge Base Search」機能を使用し、製品ドキュメントのリリースなどの製品情報へアクセスすることができます。



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### サードパーティ（第三者）製ソフトウェアの権利に関する通知

# Storage Foundation Cluster File System リリースノート

## はじめに

Veritas Storage Foundation Cluster File System (SFCFS) および Storage Foundation Cluster File System High Availability (SFCFS HA) は、Veritas File System (VxFS) のクラスタ化機能を設定し、Storage Foundation とは別ライセンスによって提供されます。システムとアプリケーションサービスを監視し、ハードウェアまたはソフトウェアの障害時に別のシステムでサービスを再起動できるフェールオーバー機能は、SFCFS の操作には不要です。ただし、SFCFS HA をインストールして設定した後で、クラスタに追加することができます。

---

**メモ:** 今回のリリースの更新、パッチ、ソフトウェアの問題に関する最新情報について、次の Veritas テクニカルサポートの TechNote (技術情報) をお読みください。

<http://support.veritas.com/docs/283282>

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## 新機能

Veritas Storage Foundation Cluster File System は、次の新機能を提供します。

### 同時 I/O のサポート

この機能は、同時 I/O の現在のサポートをクラスタファイルシステムに拡張します。クラスタファイルシステム内のファイルに対する同時読み書きアクセスと、ローカルマウントに対する同時読み書きアクセスは、同じ意味です。

### delaylog のサポート

クラスタマウントで `-o delaylog` マウントオプションがサポートされます。

### ディスクレイアウトバージョンのサポート

SFCFS ではディスクレイアウトバージョン 7 がサポートされます。ディスクレイアウトバージョン 6 もサポートされます。

### 入れ子マウントのサポート

この機能により、任意の VxFS マウントポイント上で VxFS ファイルシステムをマウントすることができます。共有 VxFS マウントポイント上で非 VxFS ファイルシステムをマウントするための必要条件はありません。共有 VxFS ファイルシステム上のディレクトリを VxFS ファイルシステムのマウントポイントとして使うことができます。これにより、共有ファイルシステムの入れ子マウントが可能になります。SFCFS と VCS (Veritas Cluster Server) の管理インターフェースは、入れ子マウントをサポートするように拡張されています。

### 複数のトランザクションサーバー - SFCFS に対する新しい主要なアーキテクチャ上の拡張

この機能によって、SFCFS は、クラスタの 1 つのノードでしかメタデータ操作 (ファイルの作成、削除、拡張など) を処理できないというプライマリ / セカンダリアーキテクチャから、対称性を持つアーキテクチャに移行しました。このアーキテクチャでは、クラスタのすべてのノードで同時にメタデータ操作を処理できます。これにより、SFCFS で、きわめて高いメタデータ操作の負荷に対処できます。



## システム必要条件

### ハードウェアの互換性

SFCFS をサポートしているサーバー、ネットワークコントローラおよびディスクサブシステムについては、<http://support.veritas.com/> で入手可能なハードウェア互換性リストを参照してください。

### 必須のパッチ

パッチの必要条件およびバージョンは、製品のリリース時期によって異なります。

『Veritas Storage Foundation リリースノート』を参照してください。

パッチの最新のバージョンと情報については、ご購入先にお問い合わせください。

## サポートの終了と今後のサポートの問題

ここでは、次の機能について説明します。

- 5.0 でサポート対象外の機能
- 今後のリリースでサポートされなくなる可能性がある機能

### seconly mount オプション

seconly mount オプションは、次のリリースの Veritas Storage Foundation Cluster File System でサポートされなくなる可能性があります。

## バージョン 4 とバージョン 5 のファイルシステムディスクレイアウト

このリリースでは、VxFS ディスクレイアウトバージョン 4 と 5 はサポートされません。SFCFS の 4.1 リリースに対するメンテナンスパッチでは、引き続き以前のディスクレイアウトをサポートします。ディスクレイアウトバージョン 6 または 7 にアップグレードするには、vxupgrade または vxfsconvert コマンドを使います。

『Veritas File System 管理者ガイド』を参照してください。

## I/O エラーのマウントオプション

このリリースおよび将来のリリースでは、クラスタでマウントされたファイルシステムに対して、`ioerror=disable` と `ioerror=mdisable` のマウントオプションのみがサポートされます。その他の `ioerror` マウントオプションはサポートされません。

## ローカルゾーンから完全に削除されないライセンスパッケージ

Veritas ライセンスパッケージ (`VRTSvlic`) のいくつかのファイルは、`VRTSvlic` がインストールされた後に作成されたローカルゾーンから削除されない場合があります。すべてのファイルが削除されない場合、エラーメッセージが表示されます。エラーが発生したら、パッケージ削除の手順が終了した後、グローバルゾーンから次のコマンドを実行し、`VRTSvlic` ファイルを削除します。

```
# rm -rf zonepath/root/var/sadm/pkg/VRTSvlic
```

ローカルゾーンが設定されていて、製品をアップグレードする場合、インストーラでのアップグレード（またはコマンドラインからのスクリプトの実行）を選択する代わりに、製品のアンインストール、**Infrastructure** パッケージのアンインストール (`uninstallinfr` スクリプト)、製品の再インストールの手順でアップグレードします。

## 修正された問題

次の問題は、このリリースの SFCFS では修正されています。

インデント	説明
498024	ディスクレイアウトバージョン 4 をバージョン 6 にアップグレードした後、vxsvc がコアダンプする
498031	再ブートの後、qioadmin ファイル設定が永続的でなくなる
506593	マウント解除されたブロックデバイスで、df が不正な情報を報告する
526434	vxrepquota でハードウェア制限と残り時間の値の間のスペースが欠ける
526436	O_CREAT と長いファイル名を指定して open() を実行すると、EIO エラーが返される
568260	vx_isnfs() がパニックを引き起こすことがある
586928	クラスタファイルシステムで fcntl() の処理効率が低下する

## 既知の問題

このリリースでは次のインシデントが報告されています。

### 5.0 にアップグレードする前の fsck の実行

SFDFS 5.0 にアップグレードする前に、fsck コマンドを実行して、すべてのファイルシステムがクリーンであることを確認してください。

fsck (1M) のマニュアルページを参照してください。

fsck コマンドはインテントログを再生し、未処理トランザクションがあればそれらを完了してから、ファイルシステムをクリーンとしてマーク付けします。

---

**警告:** 既存のクラスタファイルシステムを 5.0 にアップグレードする前に fsck を実行する必要があります。5.0 にアップグレードした後で fsck コマンドを実行すると、古い fsck バイナリに新しいカーネルとの互換性がないことが原因でコマンドは失敗します。

---

『Veritas Storage Foundation Cluster File System インストールガイド』を参照してください。

### Veritas File System 4.0 または 4.1 からクリーンでないファイルシステムに fsck を実行すると、異常終了することがある

5.0 リリースと 4.0、4.1 リリースの VxFS fsck ユーティリティに互換性がないため、古いファイルシステムで fsck を実行すると、インテントログの再生中に異常終了することがあります。これは、以前 VxFS 4.0 または 4.1 で実行していた、CVM 共有ボリュームまたは MVS ファイルシステムであるファイルシステムのうち、VxFS 5.0 を使う前に一部がマウント解除されなかったファイルシステムにのみ影響します。

このような状況が発生した場合、完全 fsck を実行して、ファイルシステムをマウント可能な整合性のあるクリーン状態にします。

fsck\_vxfs (1M) のマニュアルページを参照してください。

### FCL を有効にした後のノードのクラッシュと参加の問題

FCL (File Change Log) がオンになってから 60 秒以内に、ノードがクラッシュまたはクラスタに参加した場合、FCL はデータを正しく記録しません。

[608169]

## インストール中にソフトウェアディスクが取り出せない

インストール中に設定されて起動された製品があると、ソフトウェアディスクを取り出せなくなります。これにより、次のような状況でインストールを続行できないことがあります。

- 関連パッケージをインストールできるように言語パックディスクをロードする必要がある場合。
- インストールを完了するためにシステムの再ブートを必要としない製品をインストールした場合。

この問題は、インストールを完了するためにシステムの再ブートが必要な製品をインストールまたはアップグレードした場合は、関係ありません。

インストール時にこの問題を回避するには

- 1 installer スクリプトに、他のオプションとともに `-installonly` オプションを指定します。
- 2 ソフトウェアディスクを取り出します。
- 3 `-configure` オプションを指定した installer スクリプトを実行します。

ソフトウェアディスクを取り出せない場合

- 1 イベントソースデーモンを停止します。  

```
# /usr/sbin/vxddladm stop eventsource
```
- 2 `ps` コマンドで報告されたプロセス ID を指定した `kill -9` コマンドを使って、`vxcached`、`vxrelocd`、`vxnotify` の各プロセスを強制終了します。
- 3 ソフトウェアディスクを取り出します。
- 4 VxVM デーモンプロセスを再起動します。  

```
# /usr/sbin/vxddladm start eventsource  
# /etc/vx/bin/vxcached  
# /etc/vx/bin/vxrelocd
```

[622442]

## 16 ノードを超える SFCFS 設定のサポート

SFCFS 5.0 は、最大 32 ノードのクラスタファイルシステムをサポートします。シマンテック社では、製品リリース時に、SFCFS 5.0 で 16 ノードまでのクラスタファイルシステム構成をテストし、認定しています。16 ノードを超えるクラスタファイルシステムの配置の承認と推奨については、アプリケーションの作業負荷に基づいてサポートを受けられます。SFCFS サポートの問題の最新情報については、次の TechNote (技術情報) を参照してください。

<http://support.veritas.com/docs/283282>

## ソフトウェアの制限事項

### Quick I/O、ODM、mount -o cio、VX\_CONCURRENT アドバイザリの相互排他性

VX\_CONCURRENT アドバイザリは、Quick I/O または ODM によって現在開かれているファイルに対しては設定できません。VX\_CONCURRENT アドバイザリを設定したファイルは、Quick I/O または ODM で同時に開けない場合があります。Quick I/O と ODM アクセスは、-o cio マウントオプションによってマウントされたファイルシステムのファイルには許可されません。

### VxFS の以前のバージョンとの互換性

VxFS 5.0 ファイルシステムソフトウェアを削除してシステムを VxFS 4.1 に戻した場合、VxFS 5.0 ソフトウェアで作成されたディスクレイアウトバージョン 7 のファイルシステムにはアクセスできなくなります。

また、ディスクレイアウトバージョン 7 のファイルシステムがブートディスク上に存在するときに VxFS 5.0 を削除すると、ホストは正しく再ブートせず、bcheckrc プロンプトが表示されたままの状態になります。ホストを正しく再ブートするには、まず fstab ファイルを編集し、ディスクレイアウトバージョン 7 のファイルシステムをコメントアウトします。

『Veritas Storage Foundation リリースノート』を参照してください。

### Storage Foundation Cluster File System でのディストリビューションとカーネルバージョンの一貫性

クラスタノードは、同じディストリビューションおよびカーネルバージョンを実行する必要があります。同じクラスタ内で 32 ビットカーネルと 64 ビットカーネルを混在させることはできません。クラスタノードは、64 ビットカーネルを実行する必要があります。

### Storage Foundation Cluster File System エージェントが日本語のマウントポイントをサポートできない

SFCFS エージェント（たとえば、cfsmntadm および cfsmount）はいずれも日本語のマウントポイントで動作しません。SFCFS エージェントでは VCS を必要としますが、現在 VCS は ASCII 以外の入力をサポートしていないため、日本語オペレーティングシステムではこれらのコマンドが失敗します。

## フェンシング

SFCFS のインストール手順で、フェンシングを有効にしたが、まだコーディネータディスクを設定する必要がある場合、**Cluster Volume Manager** はクラスタを参加させません。フェンシングを無効にする場合、または現在の設定ではフェンシングをサポートできない場合は、次の手順でフェンシングを無効にし、共有ディスクグループを参加可能にします。

- 1 各ノードで `/etc/vxfenmode` ファイルを作成します (ない場合)。
- 2 このファイルに文字列 `vxfen_mode=disabled` を追加します。

## Cluster Volume Manager プロトコルに必要なアップグレード

ディスクグループを以前のバージョンからアップグレードする前に、**CVM (Cluster Volume Manager)** プロトコルをアップグレードしておく必要があります。

**CVM プロトコルをアップグレードするには**

- 1 既存のクラスタプロトコルバージョンを確認します。  
`# vxdctl protocolversion`
- 2 クラスタプロトコルバージョンをクラスタ全体でバージョン 70 にアップグレードするには、マスターノードで次のコマンドを使います。  
`# vxdctl upgrade`

## インストール中の NIC 検出

SFCFS/SFCFS HA のインストール時に、有効なネットワーク相互接続カード (NIC) が検出されます。一部のオペレーティングシステムでは、制限によって NIC の検出が正しく実行されないことがあります。特に、ハートビートリンクについては、実際に利用できる数より多くの NIC が検出されることがあります。インストールを続行する前に、システムにある有効な NIC を確認してください。どの NIC が有効であるかを確認するには、次のコマンドを使います。

```
# ifconfig -a
```

## キャッシュアダプタイザリ

キャッシュアダプタイザリは、個別のノードのファイルシステムで `mount` コマンドを使って設定できます。他のクラスタノードには反映されません。

この問題を回避するには、必要なキャッシュアダプタイザリを `mount` コマンドの代わりに `vxtunefs` コマンドで設定します。

## Cached Quick I/O

ファイルシステムのキャッシュにデータをキャッシュする、この Quick I/O for Databases 機能はサポートされていません。

## クォータ

クォータを使う場合は、ユーザーの UID および GID がクラスタ内の各ノードで同じである必要があります。

## 名前付きパイプのローカルスコープ

クラスタにマウントされたファイルシステムで作成された名前付きパイプは、ローカルノードに関するローカルスコープだけを持ちます。

mknod コマンドを使って、名前付きパイプ以外のデバイスを作成することはできません。

## マウントされた Storage Foundation Cluster File System ディレクトリを含む LD\_LIBRARY\_PATH を定義しない

SFCFS でマウントされたディレクトリが LD\_LIBRARY\_PATH 環境変数に存在する場合、状況によっては（マウントの強制解除を行う場合など）、システムが停止する可能性があります。

## ボリュームを削除する前に、Veritas Cluster Server のボリューム レベルのリソース監視機能をオフにする

VCS のボリュームリソースを使っている場合にボリュームを削除するには、削除の前にボリュームリソースの監視機能をオフにする必要があります。ボリュームリソースの監視機能がオフにされていない場合、VCS リソースはボリュームが存在するディスクグループのアクティブ化モードを「off」に変更することで、ディスクグループのアクティブ化モードを無効にします。監視機能をオフにしておかないと、ディスクグループのアクティブ化モードをもとの設定に戻す操作が必要になります。

vxdg (1M) のマニュアルページを参照してください。

## スワップファイルがサポートされていない

クラスタにマウントされたファイルシステムでは、スワップファイルがサポートされません。



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- 『Veritas Storage Foundation Cluster File System インストールガイド』 (`sfcfs_install.pdf`)
- 『Veritas Storage Foundation リリースノート』 (`sf_notes.pdf`)
- 『Veritas Cluster Server リリースノート』 (`vcs_notes.pdf`)

## Veritas Storage Foundation Cluster File System のマニュアル

次の各マニュアルは、Veritas Storage Foundation Cluster File System のマニュアルセットに含まれています。

マニュアル名	ファイル名
Veritas Storage Foundation Cluster File System リリースノート (このマニュアル)	sfcfs_notes.pdf
Veritas Storage Foundation Cluster File System インストールガイド	sfcfs_install.pdf
Veritas Storage Foundation Cluster File System 管理者ガイド	sfcfs_admin.pdf

## 関連するマニュアル

次のマニュアルおよびオンラインヘルプでは、SFCFS/SFCFS HA のソフトウェアコンポーネントに関する重要な情報を提供しています。

### Veritas Storage Foundation のマニュアル

マニュアル名	ファイル名
Veritas Storage Foundation and High Availability Solutions スタートガイド	getting_started.pdf
Veritas Storage Foundation リリースノート	sf_notes.pdf
Veritas Storage Foundation インストールガイド	sf_install.pdf
Veritas Storage Foundation Intelligent Storage Provisioning 管理者ガイド	sf_isp_admin.pdf
Veritas Storage Foundation Cross-Platform Data Sharing 管理者ガイド	sf_cds_admin.pdf
Veritas Enterprise Administrator ユーザーズガイド	veax6x_users.pdf
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Veritas Volume Manager トラブルシューティングガイド	vxvm_tshoot.pdf
Veritas FlashSnap Point-In-Time Copy ソリューション管理者ガイド	flashsnap_admin.pdf
Veritas File System 管理者ガイド	vxfs_admin.pdf

## Veritas Cluster Server のマニュアル

Veritas Storage Foundation Cluster File System HA で使用可能なマニュアルは、次の Veritas Cluster Server のマニュアルです。

マニュアル名	ファイル名
Veritas Cluster Server リリースノート	vcs_notes.pdf
Veritas Cluster Server インストールガイド	vcs_install.pdf
Veritas Cluster Server ユーザーズガイド	vcs_users.pdf
Veritas Cluster Server エージェント開発者ガイド	vcs_agent_dev.pdf
Veritas Cluster Server 付属エージェントリファレンスガイド	vcs_bundled_agents.pdf
Veritas High Availability Agent for Oracle インストール / 設定ガイド	vcs_oracle_install.pdf

## Veritas Volume Replicator マニュアル

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マニュアル名	ファイル名
Veritas Volume Replicator リリースノート	vvr_notes.pdf
Veritas Volume Replicator インストールガイド	vvr_install.pdf
Veritas Volume Replicator 管理者ガイド	vvr_admin.pdf
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Veritas Volume Replicator Web GUI 管理者ガイド	vvr_web_admin.pdf
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MD5c.c

MD5.h

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#### JavaTip87: Automate the Hourglass Cursor

Kyle Davis

Portions of this code taken from an article available as of 2/02/02 on the JavaWorld Internet site, entitled Javatip87: Automate the HourGlass Cursor" by Kyle Davis.

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