

Veritas Storage FoundationTM for Oracle RAC リリースノート

Solaris

5.0



Veritas Storage Foundation for Oracle RAC リリースノート

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Storage Foundation 5.0 for Oracle RAC

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ライセンスと登録

Veritas Storage Foundation for Oracle RAC 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 for Oracle RAC インストール / 設定ガイド』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。

Veritas Storage Foundation for Oracle RAC リリースノート

このマニュアルには、Veritas Storage Foundation for Oracle RAC (SF Oracle RAC) for Solaris に関する重要な情報が説明されています。この製品をインストールする前に、本書のすべての情報をお読みください。

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は、次のテクニカルサポートの TechNote を参照してください。

<http://support.veritas.com/docs/281987>

Veritas Storage Foundation for Oracle RAC は、いくつかのソフトウェアが統合された製品です。このソフトウェアにより、Oracle Real Application Clusters (RAC) の管理者は、Veritas Cluster Server (VCS) と Veritas Volume Manager や Veritas File System などのクラスタ機能 (CVM と CFS) が稼動するクラスタシステム環境でデータベースを構成できます。

次に、Storage Foundation for Oracle RAC コンポーネント製品で使われる略称を示します。

CVM	Veritas Volume Manager クラスタ機能
CFS	Veritas File System クラスタ機能
VCS	Veritas Cluster Server
VEA	Veritas Enterprise Administrator グラフィカルユーザーインターフェース
VxFS	Veritas File System
VxVM	Veritas Volume Manager

SF Oracle RAC コンポーネントについては、『Veritas Storage Foundation for Oracle RAC インストール / 設定ガイド』で説明されています。SF Oracle RAC のインストールや設定について、詳しくはコンポーネント製品のマニュアルやリリースノートを参照してください。

新機能

このリリースの **Storage Foundation for Oracle RAC** では、次の新しい機能が提供されます。詳しくは『**Veritas Storage Foundation for Oracle RAC インストール / 設定ガイド**』を参照してください。

- DMP ディスクのフェンシング
- Solaris JumpStart テクノロジとの互換性

システム必要条件

SF Oracle RAC のインストールで使う正しい装置があることを確認します。

項目	説明
SF Oracle RAC システム	2GHz 以上の CPU を搭載した 2 から 8 個のシステム。
RAM	各 SF Oracle RAC システムに 2 GB 以上の物理メモリが必要です。
ネットワークリンク	<p>2 つ以上のプライベートリンクと 1 つのパブリックリンク。リンクは、100BaseT または ギガビットイーサネットで、各ノード間を直接リンクする必要があります。これにより、直接システム間通信を処理するプライベートネットワークを形成します。</p> <p>プライベートネットワークリンクには、エンタープライズクラスのスイッチを使ったギガビットイーサネットの使用をお勧めします。このリンクは同じ種類にする必要があります。100BaseT と ギガビットを併用することはできません。</p>
DVD ドライブ	クラスタ内のすべてのノードにアクセス可能な 1 つのドライブ。
ファイバーチャネルまたは SCSI ホストバスアダプタ	<p>SF Oracle RAC では、オペレーティングシステムディスクにアクセスする組み込み SCSI アダプタが各システムに少なくとも 1 つ必要です。また、共有ディスク用に、別の SCSI アダプタまたはファイバーチャネルホストバスアダプタが各システムに少なくとも 1 つ必要です。</p>
ディスク	<p>通常の SF Oracle RAC 設定では、共有ディスクが、クラスタ内のシステム間を移行するアプリケーションをサポートする必要があります。</p> <p>SF Oracle RAC I/O フェンシング機能を使う場合、データディスクまたはコーディネータディスクとして使うすべてのディスクは、SCSI-3 Persistent Reservations (PR) をサポートする必要があります。</p>

項目	説明
ディスク領域	SFRAC 領域の必要条件 <ul style="list-style-type: none">■ 合計: 2.6 G■ /opt: 1.4 G■ /usr: 200 KB■ /tmp: 512 MB■ /var: 32 MB■ /var/tmp: 700 MB
スワップ領域	メインメモリの 2 倍。

サポート対象ハードウェア

使っているハードウェアの互換性を現在の互換性リストで確認してください。
<http://support.veritas.com/docs/283161>

サポート対象ソフトウェア

Solaris オペレーティングシステムとパッチ

クラスタ内では、すべてのノードはオペレーティングシステムのバージョンとパッチレベルが同じものを使う必要があります。必要なパッチレベルの次のオペレーティングシステムで、SF Oracle RAC を実行します。

- Solaris 10
- Solaris 9
- Solaris 8

必要なオペレーティングシステムのパッチのいくつかは、システムにすでにインストールされている場合があります。showrev -p コマンドを使って、システムにインストールされているパッチを表示します。次の Solaris のパッチがシステムにインストールされていない場合は、SF Oracle RAC をインストールする前に、そのパッチをインストールしてください。

- Solaris 10: 119254-06
- Solaris 9: 116670-04、112964-07
- Solaris 8: 111413-06、108993-18、108528-18

Veritas のソフトウェア

サポート対象は、ソフトウェアディスクで提供される VCS、VxVM、VxFS のバージョンのみです。その他のバージョンは、Veritas Storage Foundation for Oracle RAC ソフトウェアディスクに収録されているソフトウェアをインストールする前に削除する必要があります。

Oracle のソフトウェア

SF Oracle RAC では、次の Oracle ソフトウェアがサポートされています。

- Oracle9i リリース 2
- Oracle 10g リリース 1
- Oracle 10g リリース 2

サポートされる Oracle データベースのバージョンに関する最新情報を確認するには、次のテクニカルサポートの TechNote を参照してください。

<http://support.veritas.com/docs/281987>

Oracle ソフトウェアのパッチ

- Oracle 10g リリース 1: Oracle パッチ 4435949、4637591、5082958 が必要
- Oracle 10g リリース 2: Oracle パッチ 4637591 が必要

サポートされなくなる機能

次の機能はサポートされなくなります。

- Oracle9i リリース 1

ソフトウェアの制限事項

このリリースには次の制限事項が適用されます。

非グローバルゾーン

Storage Foundation for Oracle RAC は、非グローバルゾーンでサポートされません。

Cluster File System (CFS)

Cluster File System には、次の制限事項があります。

- CFS はディスクレイアウトバージョン 6 と 7 のみをサポート

- HSM/DMAPI をサポートしない
- VxFS はファイルユーティリティの独自バージョンを配布しない (cpio、mv など)

共有環境 (CVM) での Volume Manager

Volume Manager クラスタ機能は、RAID 5 ソフトウェアをサポートしません。

スペース最適化ボリュームスナップショット

SF Oracle RAC クラスタでの処理速度への影響を回避するために、VxVM のボリュームスナップショット機能を使う場合は、スペース最適化インスタントボリュームスナップショットタイプの使用は推奨されません。

SRVM ボリューム位置

Oracle RAC ウィザードは、同じ共有ディスクグループ内に存在する SRVM ボリュームと Oracle データファイルのボリュームをサポートしません。ただし、手動で Oracle サービスグループを設定する場合は、この状態が許容されます。

Storage Checkpoint と Database FlashSnap

Storage Checkpoint と Database FlashSnap には、次の制限事項があります。

- マウント済みの Storage Checkpoint を使ってクローンデータベースを作成できません。
- spfile オプションを使って Oracle インスタンスを作成する場合、Storage Checkpoint または Database FlashSnap 機能のいずれかを正常に実行するには、事前に dbed_update コマンドを実行する必要があります。
- Storage Checkpoint では、ファイルシステムレイアウトバージョン 6 または 7 を使う必要があります。現在のレイアウトバージョンを確認し、必要に応じてレイアウトバージョンを変更するには、vxupgrade (1M) コマンドを使います。CFS ファイルシステムをアップグレードする場合は、上のコマンドをプライマリノードから発行します。
メモ: レイアウトバージョン 6 または 7 にアップグレードされたファイルシステムは、以前の VxFS ファイルシステムとの互換性がなくなります。
- Database FlashSnap を使ってデータベースのクローンを作成するとき、Oracle データベースには、少なくとも 1 つ必須アーカイブ先が必要です。REDO ログのアーカイブ用 Oracle パラメータについて詳しくは、Oracle のマニュアルを参照してください。

- Oracle RAC データベースでは、`dbed_vmsnap`、`dbed_vmclonedb`、`dbed_vmchecksnap` コマンドを CVM マスターノードで実行する必要があります。また、オンラインスナップショットのみサポートされます。つまり、有効性確認を実行するマスターノードでデータベースインスタンスが起動され、動作している必要があります。
- `dbed_vmsnap -o reverse_resync_commit` を実行した後、`pfile` を使ってプライマリデータベースが起動されます。ユーザーのもとのプライマリデータベースが `spfile` を使っていた場合、データベースをシャットダウンし、`spfile` を使って再起動する必要があります。次に、`dbed_update` を起動し、リポジトリを更新します。
- SF Oracle RAC の Storage Checkpoint と Database FlashSnap 機能は Veritas Storage Foundation for Oracle 製品の GUI をサポートしません。
- Database FlashSnap 機能は、RAID-5 ボリュームをサポートしません。

Oracle Disk Manager (ODM)

Oracle Disk Manager は、非同期 I/O には Quick I/O ドライバを使います。デフォルトの Quick I/O マウントオプションをオフにしないでください。

インストールに関するメモ

製品のインストールに関するガイドライン、ヒント、その他の注意事項を次に説明します。

Storage Foundation for Oracle RAC パッケージ

Storage Foundation for Oracle RAC はライセンスがある製品です。『Veritas Storage Foundation for Oracle RAC インストール / 設定ガイド』に、Veritas Storage Foundation for Oracle RAC、Veritas Volume Manager、Veritas File System、Veritas Cluster Server に適用されるライセンスの取得方法が説明されています。

インストールされる Infrastructure パッケージ

インストーラは、Infrastructure パッケージ `VRTSvlic` (Veritas License Utilities) と `VRTScpi` (Veritas Cross Product Installation Framework) の有無を確認します。これらが無い場合、またはあっても正しいバージョンでない場合は、このパッケージがインストールされます。

Storage Foundation for Oracle RAC でインストールされるソフトウェア

Veritas Storage Foundation 5.0 for Oracle RAC のインストールユーティリティ `installsfrac` によりインストールされるソフトウェアコンポーネントは、次のとおりです。

- Veritas Storage Foundation for Oracle RAC
- Veritas Cluster Server (VCS)
- Veritas Volume Manager (VxVM)
- Veritas Group Lock Manager
- Veritas File System (VxFS)
- Veritas Extension for Oracle Disk Manager (ODM)
- Veritas Cluster Server agent for Oracle

操作メモ

製品の操作に関するガイドライン、ヒント、その他の注意事項を次に説明します。手順について、詳細は『Storage Foundation for Oracle RAC インストール / 設定ガイド』を参照してください。

フェンシングの有効化

製品インストーラが SF Oracle RAC のインストールを完了した時に、すべてのクラスタノードの I/O フェンシングは無効になっています。Symantec は、I/O フェンシングを無効にした状態で SF Oracle RAC を使うことをサポートしません。クラスタ環境での I/O フェンシングの設定について、詳しくは『Veritas Storage Foundation for Oracle RAC インストール / 設定ガイド』を参照してください。

既知の問題

このリリースでは、次の問題が報告されました。

Oracle 10g リリース 2 に影響する問題

VIP Configuration Assistant

Oracle 10g リリース 2 のインストール時に、[(e.g. hme0) is not a public interface.] のようなエラーメッセージが表示され、VIP Configuration Assistant は機能しない場合があります。

回避策 : vipca ユーティリティを手動で起動します。

Oracle Cluster Verification ユーティリティ 警告メッセージ

Oracle 10g リリース 2 のインストールの最終段階で、Oracle Cluster Verification Utility から警告メッセージが発せられることがあります。

回避策 : メッセージを無視しても問題ありません。

Database Configuration Assistant

Database Configuration Assistant ユーティリティによって、[SGA size cannot be greater than maximum shared memory segment size (0).] というエラーが表示されます。

回避策 : このメッセージは無視して、Oracle のデータベースメモリパラメータを手動で設定します。Oracle Database Creation Assistant (DBCA) の [Memory] タブで、共有メモリ管理設定の [Custom] および [Manual] を選択し、適切な値を入力します。

GAB と LLT カーネルモジュールが、アンインストール後もロードされる

SF Oracle RAC が正常にアンインストールされても、GAB と LLT カーネルはロードされています。

vxfsntsthdw コマンド実行時には /.rhosts ファイルに「+」が必要

vxfsntsthdw コマンドを使うには、このコマンドを実行するクラスタノードを含むすべてのクラスタノードに対する、rsh アクセス権が必要です。そのため、/.rhosts ファイルの先頭行に「+」文字が必要です。

VCS の制御下での Oracle 10g データベースの設定

Oracle 用 Veritas エージェントの CRS の無効化

Veritas agent for Oracle では、詳細監視機能により、Oracle 10g データベースを制御できます。Veritas エージェントを使う前に、データベースの CRS 制御を無効にします。詳細は、次のテクニカルサポート Web サイトにある TechNote を参照してください。 <http://support.veritas.com/docs/275388>

DBCA で作成した Oracle 10.1.0.3 データベースは再ブートで失敗することがある

クラスタが Oracle Database Creation Assistant (DBCA) で作成された Oracle 10g (10.1.0.3) データベースを稼動する場合、1つのノードをシャットダウンしたり再ブートしたりすると、他のノードにあるデータベースインスタンスが kill されることがあります。この問題は、CRS によるデータベースの制御が無効になっている場合に発生します。10.1.0.4 リリースでは、この問題が解決されます。

回避策：この問題に関する最新の情報は、次のテクニカルサポートウェブサイトにある Technote を参照してください。

<http://support.veritas.com/docs/275388>

ODM が有効な Oracle 10g での RAW ファイルの扱い方

Oracle ではデータファイル、コントロールファイル、REDO ログに RAW ファイルを使うことができます。以前は、関連付けされたファイルが RAW ファイルである場合、SQL REUSE 句は無視されていました。Oracle 10g 以降から、Oracle Disk Manager (ODM) が有効な場合、SQL の REUSE 句は必須です。

回避策：RAW ボリュームにデータベースファイルを作成するには、SQL コマンドで REUSE オプションを設定する必要があります。エラーメッセージと SQL の回避策の例については、次のテクニカルサポートの TechNote を参照してください。

<http://support.veritas.com/docs/283362>

Oracle 10g クラスタにある VCS の停止前に CRS を停止

Oracle 10g が稼動している SF Oracle RAC クラスタでは、CRS デーモンを停止してから、`hastop -all` コマンドを使って VCS を停止する必要があります。必要なコマンドは以下になります。

1 各ノードで Oracle を停止します。

```
# hagrps -offline oracle_group -sys -system_name
```

- 2 各ノードで CRS デーモンを停止します。
`/etc/init.d/init.crs stop`
- 3 VCS を停止します。1 つのノードから、次のコマンドを入力します。
`hastop -all`

VCS で CRS デーモンを停止するには、『Veritas Storage Foundation for Oracle RAC インストール / 設定ガイド』の Oracle 10g 用 VCS サービスグループの構成に関する情報を参照してください。

Oracle 用 Veritas エージェントのエラー処理の変更

Oracle 用 Veritas エージェントでは、詳細監視時に検出された Oracle エラーの処理が改善されています。このエージェントは、Oracle のエラーとその対応策がリストされた参照ファイル `oraerror.dat` を使います。対応策について、詳しくは『Veritas High Availability Agent for Oracle インストール / 設定ガイド』を参照してください。

現在、このファイルでは、次の Oracle エラーの対応策として NOFAILOVER アクションが指定されています。

ORA-00061、ORA-02726、ORA-6108、ORA-06114

NOFAILOVER の場合、エージェントはリソースの状態を OFFLINE に設定し、サービスグループをフリーズします。

エージェントを停止し、`oraerror.dat` を編集することで、この NOFAILOVER を環境に適した別のアクションに変更できます。エージェントを再起動すると、変更が有効になります。

I/O フェンシングを設定したクラスタノードの停止

I/O フェンシングの機能は、クラスタ間の相互接続の切断やスプリットブレインによって発生するデータの破損を防止します。相互接続の切断によって発生する問題と I/O フェンシングによる防止について、詳しくは『Veritas Cluster Server ユーザーズガイド』の「VCS 通信、メンバーシップおよび I/O フェンシング」を参照してください。

I/O フェンシングでは、データ保護を目的として SCSI-3 Persistent Reserve キーを採用しています。キーは、I/O フェンシングコーディネータディスクおよびデータディスクに格納されます。管理者は、I/O フェンシングで保護されたクラスタを利用する場合にいくつかの操作に変更が必要となることに注意してください。後でクラスタの起動時に問題が発生しないように、固有のシャットダウン手順を使って、キーをコーディネータディスクとデータディスクから削除する必要があります。

`shutdown` コマンドではなく、`reboot` コマンドを使うと、シャットダウンスクリプトがバイパスされ、コーディネータディスクとデータディスクにキーが残る可能性があります。再ブートとその後の起動イベントの順序によっては、クラス

タがスプリットブレイン状態の可能性を警告し、起動に失敗することがあります。

回避策: reboot コマンドではなく、shutdown -r コマンドを使用し、システムを適切に再ブートします。

日本語ロケールでの Storage Foundation for Oracle RAC

日本語版 VEA が英語版 Windows で正しく表示されない

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回避策: Windows の Multilingual User Interface (MUI: 複数言語ユーザーインターフェース) では、[ユーザーロケール (User Locale)] 設定を使ってユーザーインターフェース言語を変更します。コントロールパネルの [地域の設定 (Regional Settings)] にある [UI 言語 (UI Language)] 設定で、言語を変更しないでください。

CRS は、日本語 OS で動作しない場合がある

Cluster Ready Service (CRS) は日本語オペレーティングシステムで正しく動作しません。

回避策: 次のスクリプトを編集します。

```
/opt/ORCLcluster/bin/clsinfo  
/opt/ORCLcluster/bin/clsptvname
```

- 1 各スクリプトの 2 行目以降は次のようになっています。

```
#!/bin/sh
```

- 1 行目の下に次の行を追加します。

```
LANG=C  
export LANG
```

- 2 ファイルを保存して閉じます。

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Storage Foundation for Oracle RAC マニュアルセット

マニュアルタイトル	ファイル名
Veritas Storage Foundation for Oracle RAC	
Veritas Storage Foundation for Oracle RAC インストール / 設定ガイド	sfrac_install.pdf
Veritas Storage Foundation for Oracle RAC リリースノート	sfrac_notes.pdf
Veritas Cluster Server	
Veritas Cluster Server インストールガイド	vcs_install.pdf
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Veritas File System	
Veritas File System 管理者ガイド	vxfs_admin.pdf

修正済みの問題

次の問題はこのリリースで修正されました。修正済みの問題とソフトウェアの拡張要求を、インシデント番号を使って参照します。

インシ デント 番号	説明
569071	lmx_max_buffer のデフォルト値を 500 から 1000 に増加
544172	設定時に Oracle IPC バージョン番号を取得するユーティリティ
542004	Oracle 10gR2 の IPC ライブラリで発生するエラー (ORA-27504: IPC error creating OSD context)
520193	Oracle 用の IPC ライブラリで、ネーミングと構築方式の変更
512383	Oracle 10gR2 と Oracle 9.2.0.7 用の IPC の変更
511554	SF Oracle RAC インストーラの機能拡張
492961	10gR2 用の IPC の変更
425505	LMX: LMX ヘッダーへのプロトコルバージョンニングサポートの追加

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ACE (The Adaptive Communication Environment)

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Digital Encryption Standard (DES) - MIT

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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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