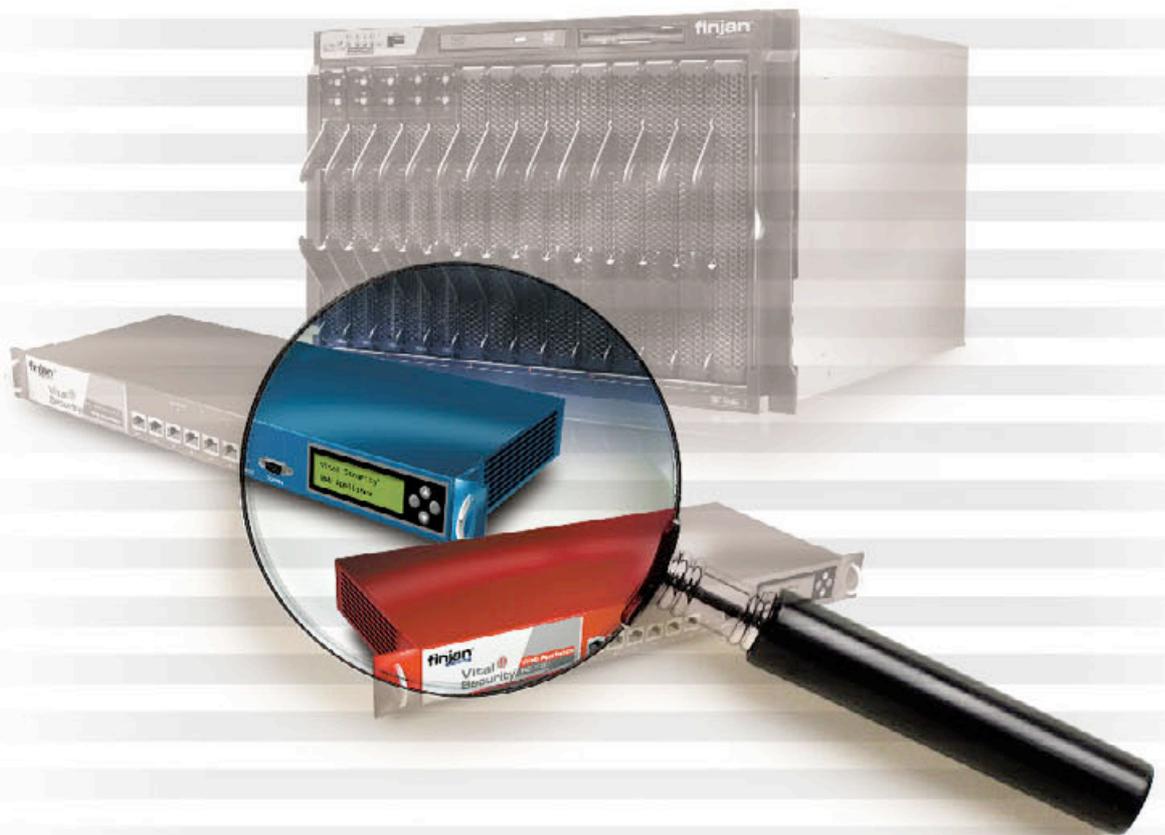


# Technical Brief

## Scanning Server VSOS Updates

for Managed System Update



Vital Security Release 8.4.3

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Scanning Server VSOS Updates for Managed System Update

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## 1 Managed System Update

Managed System Update is a manual procedure that updates a platform comprising more than one Scanning Server. This procedure minimizes the system downtime and reduces the risk of complete system downtime during and after the update process. The administrator controls the update procedure and decides which of the Scanning Servers gets the updated VSOS first and which will get updated only later, rather than sending the latest VSOS update to all the Scanning Servers simultaneously. The idea is to update the Scanning Servers one-by-one, proceeding to the next only after successful completion of the current update, i.e. the currently updated Scanning Server is functioning correctly using the latest installed version. The ability to update specific Scanning Servers ensures greater stability of the overall system and allows greater control over the individual Scanning Servers in the configuration. Using this procedure it is possible to test the Software release using only a portion of the Scanning Servers in a controlled environment, thereby allowing continuous scanning operation without compromising the end-user's experience.

Having the ability to select specific Scanning Servers is also useful when updating a Policy Server with a new VSOS in a High Availability configuration. In this case, the Standby Policy Server can be left untouched, thereby enabling rollback to the standby policy server which contains the previous OS. Similarly, the standby policy server can be synchronized to have the same VSOS as the updated active policy server once the VSOS update has successfully completed.

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 **NOTE: New updates cannot be installed unless all of the devices in the Network Roles tree IP cluster, as well as the standby policy server, are at the same OS level. For more information refer to the High Availability Policy Server technical brief.**

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### 1.1 Scanning Server VSOS Update Procedure - Outline

The Scanning Server VSOS update procedure involves following update instructions for each individual Scanning Server in the system configuration. It is recommended to complete the corresponding update form while performing the update procedure. A sample of this form is shown in [Paragraph 3 - Sample Form for Scanning Server VSOS Updates](#). This ensures that the process is controlled and recorded in an organized manner. It is recommended to perform the following steps in the update procedure (each step is described in the corresponding paragraph):

1. Using the sample form (see [Paragraph 3](#)), list all the Scanning Servers in the system according to their update priority.
2. Enter in the form the current VSOS and the required (updated) VSOS.
3. Configure the Scanning Server for VSOS updates (see [Paragraph 2.1](#)).
4. Perform manual VSOS update for selected Scanning Server (see [Paragraph 2.2](#)).
5. Validate that the VSOS update has completed successfully (see [Paragraph 2.4](#)) and enter the update time and status in the sample form.
6. Repeat procedures 3-5 for each Scanning Server in configuration.

## 2 VSOS Update Procedure

The following paragraph describes the procedure required for Scanning Server VSOS update.

**NOTE: Policy Servers are only able to configure and send security updates to Scanning Servers which have the same VSOS. Any Scanning Server which has a different VSOS update to the Active Policy Server will have their corresponding icon displayed in yellow.**

### 2.1 VSOS Update Configuration

⇒ To configure Scanning Server VSOS updates

1. Navigate in the Management Console to **Settings > Updates > Update Configuration** and check that the **Update Configuration - OS Version Update** section remains unchecked. By default this is unchecked to enable manual updates.



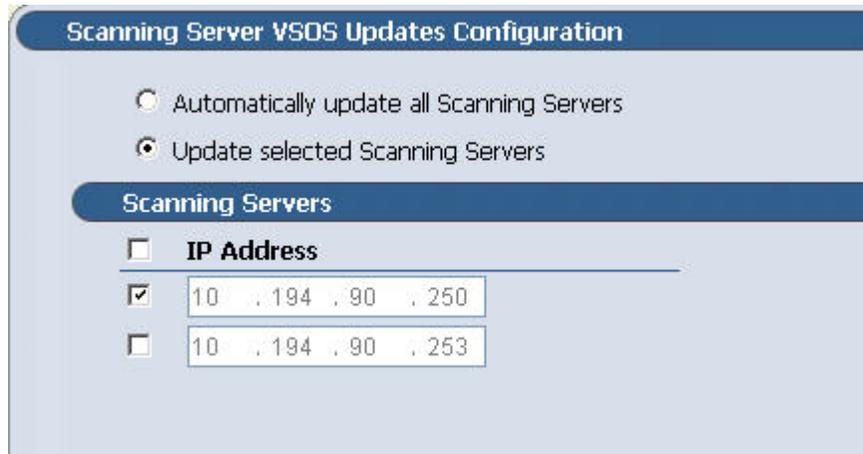
The screenshot shows the 'Update Configuration' page in the Management Console. The 'Update Configuration' section is highlighted, and the 'OS version update' checkbox is circled in red, indicating it is unchecked. The 'Scheduling' section shows the following settings:

- URL: updateNG.finjan.com/remote\_update
- Automatic Install:
  - Security:
  - Critical OS update:
  - OS version update:  (circled in red)
- Scheduling:
  - Download Starts At:
    - Date: 2004-01-01
    - Time: 00 : 30
  - Download Every:
    - Days: 01 : 00 : 00
  - Do not retrieve updates automatically

Buttons at the bottom: Apply, Generate Update Key

Figure 1: Update Configuration

2. Navigate in the Management Console to **Settings > Devices > Policy Server > VSOS Updates**.



**Figure 2: Scanning Server OS Updates**

3. Select the **Automatically update all Scanning Servers** option if all the Scanning Servers are to be updated simultaneously. This is the default option.
4. Alternatively, select **Update selected Scanning Servers** to display a list of the Scanning Servers in your configuration and then check those that require updating (this is the recommended option).
5. Click **Apply**.

## 2.2 Manual VSOS Updates

⇒ **To manually update the Scanning Server VSOS:**

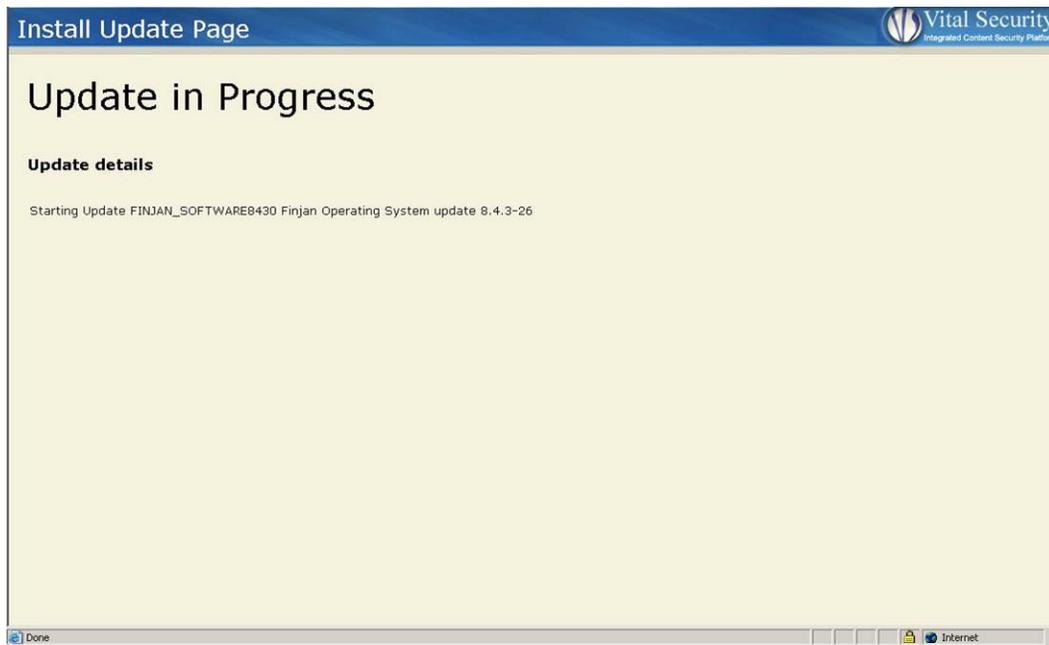
1. Navigate in the Management Console to **Settings > Updates > Available Updates**. The **Available Updates** tab displays all currently available updates and provides options for uploading local or remote updates to be installed.



**Figure 3: Available Updates**

2. Select the update – in this case the VSOS Update and click **Install Update** on the right-hand side of the screen. The tick icon will change to an hourglass icon.

A Status Page is displayed showing the status of the update process.



**Figure 4: Status Page – Update in Progress**

- Once the update has been successfully installed a message will be displayed stating that the update is complete. Click on **OK**.



**Figure 5: Update Complete**

The corresponding update will disappear from the **Available Updates** screen and instead will display on the **Installed Updates** screen.

Available Updates		Installed Updates			Updates Configuration
Update Type	Version	Release Date	Install Date	Update Description	
OS	N.C.	30/11/2006	03/12/2006	Finjan Operating System update 8.4.0.M03	
Security	N.C.	29/11/2006	30/11/2006	Sophos DAT file update.	
Security	N.C.	29/11/2006	30/11/2006	Surf Control list update.	
Security	N.C.	29/11/2006	04/12/2006	Sophos Engine and DAT file update.	

**Figure 6: Installed Updates**

A successful update will result in the Login screen appearing. Enter username and password and click **Login**.

## 2.3 Updating Other Scanning Servers

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 **NOTE:** This should be done after performing the VSOS Update Validation described in [Paragraph 2.4](#), in order to ensure that the update process worked successfully on the initial update.

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⇒ **To update other Scanning Servers to the same VSOS:**

1. To ensure that all Scanning Servers in your configuration have been updated to the same level, repeat the update process for each Scanning Server in the configuration by selecting either **Automatically update all Scanning Servers** (not recommended) or by selecting the Scanning Server **IP address** as shown in Figure 1.
2. Click **Apply** to update the VSOS.
3. Check and validate that update is functioning correctly and repeat.

## 2.4 VSOS Update Validation

⇒ **To validate the Scanning Server VSOS update:**

1. Navigate in the Management Console to **Settings > Devices > Scanning Server > Network Roles**.
2. In the Network Roles tree, click on the IP address of the Scanning Server that has been updated to view the corresponding VSOS version and status.

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 **NOTE:** The status of the Scanning Server is indicated in the status screen and in the Network Roles tree by various colors: **Orange** indicates that the update is still in progress, **Yellow** indicates that there is a discrepancy between the VSOS update and the Active Policy Server and **Blue** indicates that the update is OK. **Red** indicates that the Scanning Server is Not Active.

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3. To validate that an update has completed successfully and corresponds to the system VSOS, check that the VSOS for the selected Scanning Server is the same as that indicated on the bottom right hand side of the screen. Similarly, the Device configuration revision (policy sub-version number) should also be the same as displayed on the bottom right hand side of the screen.

The screenshot shows a web interface for a Scanning Server. The title bar reads "Scanning Server". The main content area displays the following information:

Device configuration revision:	25
VSOS:	8.4.3
Activity Status:	Active
Connection Status:	Active
Committing Status:	Stable
Last Connection Time:	Mon Jan 8 15:52:26 2007
Faulty Modules:	

Below this information, there is an "Activate:" section with a checked checkbox and the text "(Select to activate, Deselect to deactivate)".

An "Apply" button is located at the bottom right of the main content area.

At the bottom of the page, a status bar indicates "Logged User: admin" followed by "VSOS 8.4.3 25".

**Figure 7: Scanning Server VSOS Verification**

### 3 Sample form for Scanning Server VSOS Updates

The following form can be used to record the update process for all Scanning Servers in the system.

Scanning Server - IP Address	Current VSOS	Updated VSOS	Time	Status
10.194.90.250	8.4.0	8.4.3	10:00	OK
10.194.90.253	8.4.0	8.4.3	11:00	OK