



VIVAX TECHNOLOGY

Reliable Data Storage for Small Businesses

Vivax Storage Server

Administration Guide

VSS Administration Guide

REVISION ONE

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Table of Contents

Copyright Notice	i	Creating Network Shares	5
Trademarks	i	Editing Network Shares	5
Revisions	i	Deleting Network Shares	6
Audience	ii	Managing Users and Groups	6
Purpose	ii	Creating Users and Groups	6
VIVAX STORAGE SERVER END USER LICENSE AGREEMENT (VSS EULA)	ii	Editing Users and Groups	7
Vivax Technology LLC's Warranty for Vivax Storage Server	v	Deleting Users and Groups	7
Vivax Warranty Support	vi	Assigning User/Group Access to Private Shares	8
Contacts	vii	Creating a Private Share:	8
Introduction to VSS	vii	Making a Public Share Private	8
Installation Overview	1	Using the Disk Manager	9
Connecting the VSS Server to Your Network	1	Configuring Failure Notifications	9
Turning On Your VSS Server	1	Configuring Email Notifications	9
Turning Off Your VSS Server	1	To Configure the Sound Alarm:	9
Assigning an IP Address	2	Managing Your VSS Server/Network Identity	10
Using the Installation Wizard	3	Changing the VSS Server's Network Identity	10
Administration Overview	4	Changing the VSS Server's Network Settings	10
Accessing the Web Interface	4	Setting the VSS Server's System Date and Time	10
Accessing the Web Interface Through the Console.	4	Change the Web Interface Access Password	11
Accessing the Web Interface Through Your Network / the Internet.	5		
Managing Network Shares	5		
Viewing Network Shares	5		



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Revisions

Vivax reserves the right to revise this publication and to make changes in the content hereof without the obligation of Vivax Technology LLC to notify any person of such revision or changes.

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P R E F A C E

Audience

This guide is intended for individual users or system administrators who need to install and maintain one or more Vivax Storage Servers on their network. The guide is written with the assumption the reader has at least a basic understanding of file server functionality.

Purpose

This guide provides information on the installation, configuration, security, and maintenance of Vivax Storage Servers. It also provides information on using its Embedded Software.

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Vivax Technology LLC's Warranty for Vivax Storage Server

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All VSS models are warranted against defects in material and workmanship for two years from the date of purchase by the original end user.

If your VSS server fails during the warranty period because of defects in materials or workmanship, Vivax Technology will repair or replace it at no charge.

There are, of course, some limitations to this Warranty. First, you must

Be the original end user purchaser of the product and be able to provide proof of purchase showing the date and place of purchase if you submit a Warranty claim. Second, you must contact Vivax Technology, and upon request, ship the defective product to Vivax Technology at your expense.

Third, the product failure must not be the result of product abuse on your part, such as dropping the Server, using incorrect electrical current, or getting the Server wet. There are also some legal limitations to this Warranty:

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Contacts

If you have question you can contact us at any time and we will be happy to assist you. You can reach us by mail, phone, or on the Internet (see the inside cover page of this guide).

Introduction to VSS

The Vivax Storage Server requires very little administration. It easily fits in your existing network. For many simple networks, VSS Servers can be used with its default setting. The default settings work with Microsoft network, but may be used also in NetWare, Macintosh and UNIX/ Linux environments or a mixture of any of these platforms.

For more advanced customization, the Web Interface (an embedded browser-based administration tool) allows you to reconfigure RAID support (for the models supporting multiple RAID configurations), designate users and groups, admin password, set up e-mail notification of disk errors, and restrict access to designated users and groups.

The initial installation is described in the "Installation" chapter of this Administration Guide. The further configuration and administration is covered in the "Working with VSS Server Section".

Installation Overview

To install the VSS server, connect it to your network, turn the server on, and let the Installation Wizard guide you through the rest of the process. The Server will be ready for use.

Connecting the VSS Server to Your Network

You can connect your VSS server to a 10BaseT or 100BaseTX network.

1. Connect the server to your network using the Ethernet cable provided.
2. Connect the provided AC power cord to your VSS server, then connect the server to an AC wall outlet.

Turning On Your VSS Server

1. Press the power button until the System light turns on, then release the button and wait for the server to start up.
2. When the System light starts blinking at a steady rate (about once a second), the startup is complete.

Turning Off Your VSS Server

You can turn off your VSS server using the power button or by using the Web

INSTALLATION

Interface. With the Web Interface, you can turn your VSS server remotely from a network PC or over the Internet.

To turn off the VSS server using the power button:

1. Press and hold the power button for about one second. Release the button and wait for the lights to turn off.
2. After you turn off the VSS server, the lights remain lit while the server completes its shutdown. You must wait for all of the lights to turn off before you turn on the server again or disconnect it from the power source. The VSS server should never take more than thirty seconds to shut down.

To turn off the VSS server using the Web Interface:

1. Open your browser and type the address of your VSS server.
2. Logon and press the Shutdown button located on the Home Page.

Tip:

It is important to shut down your server properly to avoid the possibility of data corruption.

Assigning an IP Address

To configure the VSS server and use it in network environments, it must have an IP address. (An IP address is a network address and is required for TCP/ IP.)

VSS server comes pre-configured with the following IP settings:

- IP Address: 192.168.1.15
- Netmask: 255.255.255.0
- Gateway: 192.168.1.1

If your existing network is different than 192.168.1.X, you will need to connect a monitor, keyboard, and mouse in order to change the default IP settings to settings suitable for your network.

INSTALLATION

Once your VSS is properly configured and accessible over the network, you do not need to have a monitor, keyboard, and mouse connected to the VSS any more. Any further administration (including changing the IP address) can be done using a standard web browser on a remote PC connected to the local network. (Of course, you can still do the administration on the VSS itself, if you prefer.)

Tips:

Your VSS server must be configured to use the same subnet as the Windows® domain controller if WINS is not in use on the network.

Using the Installation Wizard

When starting your VSS for the first time, wait for the system to complete the boot process until the logon screen of Web Interface is shown. Logon with the default administrator name and password with which the VSS server comes pre-set. The Installation Wizard will start automatically. The Wizard will guide you through the rest of the setup process. Just fill in the required information as prompted and be sure to go through all the steps to of the Wizard.

Administration Overview

Once installed on your network, the VSS server appears as another computer in the network with shared folder(s). You can use it to organize and store files in the same way that you use the folders on your local hard disk drive.

The default server name is "VSS-ModelNumber". You may change it to whatever you want. For more information, see the "[Managing Your VSS Server/Network Identity](#)" chapter.

By default, no security restrictions are in place for accessing the files and folders within the VSS server. Anyone who can connect to the VSS server from your network or from the Internet can access any of the VSS server's files. Hence, it is recommended to set up users' and access restrictions'. This is achieved using private shares (See "[Assigning User/Group Access To Private Shares](#)").

Accessing the Web Interface

Once installed, you can further configure your VSS server using its Web Interface. The Web Interface can be accessed either locally through the VSS server's console (with directly attached monitor, keyboard, and mouse) or remotely from another PC's web browser. Remote access is possible from either your local network or from the Internet.

Accessing the Web Interface Through the Console.

When you turn the VSS's monitor on, you will see a blue screen application. Press "Ctrl+C" to start the Web Interface.

Accessing the Web Interface Through Your Network / the Internet.

On a remote PC, start your favorite browser and enter the IP address or the domain name of your VSS server in your browser's address box and press "Enter". The browser will display the VSS server logon screen.

Note:

For the VSS server to be accessible from the Internet, your network must be properly configured for Internet access and connected to the Internet.

Managing Network Shares

Viewing Network Shares

From the Web Interface's left-hand side menu, select "Network shares". This will display the Network Shares screen.

Creating Network Shares

1. From the Web Interface's left-hand side menu, select "Network shares". This will display the Network Shares screen.
2. Press the Add button.
3. Type the name of your share and select the Public option.
4. Press the Add button to save the share. The share will be accessible by every user in the local network.

Editing Network Shares

1. From the Web Interface's left-hand side menu, select "Network shares". This will display the Network Shares screen.
2. From the Network Shares screen, select the share to edit and click the Edit link.
3. Make changes to the share as necessary.

ADMINISTRATION

4. Press the Change button to apply the changes or the Cancel button to discard the changes.

Deleting Network Shares

1. From the Web Interface's left-hand side menu, select "Network shares". This will display the Network Shares screen.
2. From the Network Shares screen, select the share to delete and click the Delete link. You will be prompted to confirm the deletion ("Are you sure you want to delete this network share?").
3. Click "Yes" to confirm and delete the share or "No" to discard the deletion and preserve the share.

Managing Users and Groups

Creating Users and Groups

Users:

You may create and setup Users and grant/deny them access to a specific VSS server share. The User access information is stored on the VSS server. If you have multiple VSS servers on your network, you'll have to create and setup the User on each VSS server.

To create a new User:

1. From the Web Interface screen, select "Users/Groups".
2. Click "Add User".
3. Enter the User's information in the appropriate fields.
4. Press the Add button to save the User.

Groups:

You may create User Groups and assign Users to each group.

To create a Group:

1. From the Web Interface screen, select "Users/Groups".
2. Click "Add Group".

ADMINISTRATION

3. Type in the Group's name and add Users for that Group.
4. Press the Add button to save the Group.

Editing Users and Groups

Users:

To edit a User:

1. From the Web Interface screen, select "Users/Groups".
2. Click "Edit User".
3. Change the User's information as necessary.
4. Press the Change button to apply the changes or the Cancel button to discard the changes.

Groups:

To edit a Group:

1. From the Web Interface screen, select "Users/Groups".
2. Click "Edit Group".
3. Select the desired Group and add/remove Users as necessary.
4. Press the Change button to apply the changes or the Cancel button to discard the changes.

Deleting Users and Groups

Users:

To delete a User:

1. From the Web Interface screen, select "Users/Groups".
2. Click "Delete User".
3. You will be prompted to confirm the deletion.
4. Click "Yes" to confirm and delete the User or "No" to discard the deletion and preserve the User.

Groups:

To edit a Group:

1. From the Web Interface screen, select "Users/Groups".

ADMINISTRATION

2. Select the desired Group and Click "Delete Group"
3. You will be prompted to confirm the deletion.
4. Click "Yes" to confirm and delete the Group or "No" to discard the deletion and preserve the Group.

Assigning User/Group Access to Private Shares

After you have created Users/Groups, you may create new shares and mark them as private or edit any existing public share and restrict the access to it by particular Users and/or Groups. Only authorized Users and members of an authorized Groups may connect to the VSS's private shares.

Creating a Private Share:

1. From the Web Interface's left-hand side menu, select "Network shares". This will display the Network Shares screen.
2. Press the Add button.
3. Type the name of the share and the select Private option.
4. Check the Users and Groups to be granted access to the folder.
5. Press the Add button to save the share. The share is now accessible only by the authorized local network users.

Making a Public Share Private

1. From the Web Interface's left-hand side menu, select "Network shares". This will display the Network Shares screen.
2. From the Network Shares screen, select the share to edit and click the Edit link.
3. Select the Private option.
4. Check the Users and Groups to be granted access to the folder.
5. Press the Add button to save the share. The share is now accessible only by the authorized local network users.

Using the Disk Manager

You can review the storage status at any time by selecting "Disk Manager" from the left-hand side menu of the Web Interface. This will display current information about storage – whether the system working properly or not and storage information broken down by the individual disks participating in the storage system.

When the VSS server is working properly, the overall storage status is shown as "Active", and the status of every individual disk is also "Active". There is also information about the total storage size and the storage size of each individual disk.

In case of a failed drive, the overall storage status will be shown as "Active", but the failed drive's status will be "Failed" and the following notification message will be displayed on the screen: "You have failed disk(s) [More info](#)." Click the More info link and follow the instructions.

Configuring Failure Notifications

The VSS server supports two types of failure notifications:

- Email failure notification;
- Sound notification.

Configuring Email Notifications

1. Check the Email box.
2. Enter the email address on which you want to receive the failure notification and the name or IP address of the SMTP server. (To verify the settings, press the Test Email button. This will send a test email to the address you have entered).
3. Press the Update button or continue with configuring the sound alarm.

To Configure the Sound Alarm:

1. From the Web Interface home page, click on "Failure Notification".
2. Check the Speaker Sound box. (To test the speaker, press the Test Alarm button.)

3. Press the Update button

Managing Your VSS Server/Network Identity

The default name of your VSS server is "VSS-ModelNumber". It works under the default workgroup named "WORKGROUP".

Changing the VSS Server's Network Identity

1. Click Network Identity link on the Web Interface's home page.
2. Enter the desired information
3. Click the Update button to apply the changes.

Changing the VSS Server's Network Settings

The network configuration settings of your VSS should be set in compliance with your existing network settings.

To change/setup the VSS's Server's network settings:

1. From the Web Interface's home page, click "Network Settings".
2. If your network supports DHCP mode:
 - a. Check "Obtain TCP/IP settings automatically using DHCP" box. No other information is needed.
 - b. Press the Update button to apply the changes.
2. To enter the network settings manually:
 - a. Check "Set IP Addresses as static using the settings below" box
 - b. Enter the appropriate information. (If you do not want to assign a default gateway, enter 0 (a zero) in network's default gateway.)
 - c. Press the Update button to apply the changes.

Setting the VSS Server's System Date and Time

Your VSS server comes with default date and time settings.

ADMINISTRATION

To change the date and time settings:

1. From the Web Interface's home page, click “Date/Time”.
2. Enter the appropriate date, time, and time zone information.
3. Press the Update button to apply the new settings.

Change the Web Interface Access Password

For security reasons, it is advisable that you change your Web Interface access password periodically.

To change your Web Interface access password:

1. From the Web Interface's home page, click the Admin Password link.
2. In the respective fields, type in the old and the new passwords.
3. Press the Update button to update the password. The next time you log on to your VSS, use the new password.

Index

10BaseT	1	email notifications	2, 10
accessing the web interface	i, 4, 5	configuring	2, 10
accessing the web interface through the console.	i, 4	end user license agreement (VSS eula)	i, ii
accessing the web interface through your network / the internet.	i, 5	gateway	11
administration overview	i, 4	groups	
assigning an ip address	i, 2	creating	2, 6
assigning user/group access to private shares	2, 8	deleting	2, 8
audience	i, ii	editing	2, 7
changing the VSS server's network identity	2, 11	managing	2, 6
changing the VSS server's network settings	2, 11	installation overview	i
changing the web interface access password	2, 12	introduction to VSS	i, vii
configuring email notifications	2, 10	IP address	2, 3, 5, 10
configuring failure notifications	2, 10	making a public share private	2, 9
configuring the sound alarm	2, 10	managing network shares	i, 5
connecting the VSS server to your network	i	managing users and groups	2, 6
contacts	i, vii	managing your VSS server/network identity	2, 4, 10
copyright notice	i	network shares	
creating a private share	2, 8	creating	i, 5
creating network shares	i, 5	deleting	i, 6
creating users and groups	2, 6	editing	i, 6
deleting network shares	i, 6	managing	i, 5
deleting users and groups	2, 8	viewing	i, 5
Disk Manager	2, 9	notifications	
editing network shares	i, 6	email	2, 10
editing users and groups	2, 7	password	
		changing the web interface access password	2, 12
		power off	i, 2
		power on	i

private shares		trademarks	i
creating	2, 8	turning off your VSS server	i, 2
making private from public	2, 9	turning on your VSS server	i
purpose	i, ii	users	
revisions	i	creating	2, 6
setting the VSS server's system date and time	2, 11	deleting	2, 8
shares		editing	2, 7
creating private	2, 8	managing	2, 6
making private from public	2, 9	using the Disk Manager	2, 9
sound alarm		using the installation wizard	i, 3
configuring	2, 10	viewing network shares	i, 5
		warranty	i, v

