

WINDOWS DS-Client Installation Guide



Assumptions

The following assumptions are made about the audience for this document:

Familiarity: User is familiar with the Operating System platform. User is familiar with basic Internet browsing.

Correct Input: User enters the correct data (e.g. user names, passwords, etc.) when asked or required. If invalid data is entered, an error message will appear, and you will be forced to correct the error before you may proceed.

Canceling activities: The option to cancel the current activity (in some cases the option is “No”) will exit the activity.

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This document may contain sample screen shots, used to demonstrate VaultLogix Internet Vaulting procedures. All information appearing in this document is used for illustration purposes only, and it should be considered fictitious.

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About VaultLogix Internet Vaulting

VaultLogix Internet Vaulting is a unique alternative to traditional backup methods, replacing conventional tape based systems with a fully automated On-line solution. It provides centralized and automated backups of PCs, file servers and application/database servers with secure offsite storage and immediate On-line restoration.

The system uses a DS-Client, installed onto the customer network, which hosts the VaultLogix Internet Vaulting client application software that performs the backup and restore activity.

Document Prepared by:	Your Service Provider:
Asigra Inc.	VaultLogix
1120 Finch Avenue West, Suite 400	76 Turnpike Road
Toronto, Ontario, CANADA M3J 3H7	Ipswich, MA 01938
info@asigra.com	sales@vaultlogix.com
www.asigra.com	www.vaultlogix.com

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Before you install or upgrade

I) Supported Platforms

Platform	Version
Windows® 2000	<ul style="list-style-type: none"> Professional SP4, or Server SP4, or Advanced Server SP4
Windows® XP	<ul style="list-style-type: none"> Professional SP2, or Media Center SP2
Windows® 2003	<ul style="list-style-type: none"> Standard SP1, or Enterprise SP1, or SBS SP1

Note: For upgrades of DS-Clients with Access DB, refer to the Knowledge Base article on DS-Client Database Migration.

II) Hardware & Software Minimum Requirements

You should use the best hardware possible to maximize VaultLogix Internet Vaulting performance. If applicable, it is strongly recommended that you use the fastest brand-name components available.

Hardware	Recommended minimum
CPU (1 or 2)	x86, > 2 GHz
RAM	1 GB RAM if > 1 Million Files, or 2 GB RAM if multiple files > 1 GB
Display	Super VGA
Free disk space for app. and buffer	> 1 GB

Software	Version
Microsoft® Internet Explorer	5.0 or higher
Microsoft® SQL Desktop Engine - OR -	(Free) All necessary MSDE drivers are installed automatically. <ul style="list-style-type: none"> MSDE has a 2GB limit for the databases. If you reach 2GB you must upgrade to MS SQL Server. MSDE will use a maximum of 2 CPUs, and can use up to 2GB of RAM (even if the computer has more).
Microsoft® SQL Server 2005 Express - OR -	(Free) All necessary drivers are installed automatically. <ul style="list-style-type: none"> SQL Server 2005 Express has a 4GB limit for the databases. If you reach 4GB you must upgrade to MS SQL Server. SQL Server 2005 Express will use a maximum of 1 CPU, and can use up to 1GB of RAM (even if the computer has more). If you upgrade from an existing MSDE to SQL Server 2005 Express, you must do the following : <ul style="list-style-type: none"> Run the <code>instmsdb.sql</code> patch (located in the SQL2005 Express installation directory) to rebuild the <code>msdb</code>.
Microsoft® SQL Server (For DS-Client database)	(Separate purchase is required.) SQL 2000 or higher. "case insensitive" sort order

III) What type of installation do you want?

Decide what type of installation you require. There are two types:

Type	Description
Normal	A functioning DS-Client is installed.
Self-Contained (Not available for LITE Installation Package)	Installs a DS-Client without access to a DS-System for storage. You can test the size of your backup data and measure the data growth and change patterns without having to send data off-site. You do not need to register for an Account with your Service Provider. Skip to VI) Log in to target installation computer

IV) Obtain the DS-Client Installation Program

Contact your VaultLogix Internet Vaulting Service Provider to register. You will be provided with:

- Installation Disc (or download from Service Provider Website);
- Your Customer Account number:
_____;
- Your DS-Client number:
_____;
- The DS-System IP address:
_____;

Write these numbers down (a space is provided for each above). They are required by the Installation program.

V) Select your encryption key(s)

- Data backed up through the DS-Client is encrypted using the encryption key(s) you specify.
- Encryption keys are set once. You cannot change the key(s) once set. The DS-Client service will not be allowed to start.
- Private key: If you only have one DS-Client, you only need to set this key.
- Account key: When you have more than one DS-Client, you must specify an Account key. This is a key that will be common to all DS-Clients that will be registered later under this same account on the DS-System if you decide to use the VaultLogix Internet Vaulting Service. All data unique to your LAN will be encrypted using the Account key.

VI) Log in to target installation computer

- Make sure you have logged on as the target DS-Client computer's Administrator (or a user with equivalent privileges).
- Create a Windows 2000 / XP / 2003 User Account for the DS-Client service to use. This account should be a member of the Administrators Group.

VII) Select Regular or LITE Installation Package

There are two DS-Client Installation packages:

- **Regular:** See [Regular Installation](#)
- **LITE:** minimal installation contains a condensed set of installation options that reduce its size and install only the MS Access database (no SQL). See [LITE Installation](#)

Regular Installation

Step 1. Run the Regular Installation Program

Depending on your selections, some different screens will appear. These differences are noted below.

1. Run the installation program.
2. Choose the Setup Language:
 - English
 - German

Note: The selected language will be installed for the DS-Client service. Once set, the DS-Client Service language cannot be changed (for logs and popup messages). The DS-User GUI language can be changed from the Initialization screen (if the required language components have been installed).

3. Click OK.
 - Follow the GUI to install DS-Client, or if the file "inst_param.txt" exists in the current directory, setup will run the installation based on the specified XML installation template file (if it exists). This may reduce the screens (simplified installation), or eliminate the need for user interaction entirely (silent mode installation).
 - If you are missing some prerequisite components, you will be prompted to install them.
 - Click Next. You will be prompted to select the components to install or upgrade. You may have to reboot the computer.
 - Once the prerequisites are installed, setup continues.
4. Click Next to install DS-Client components.
5. The Welcome Page appears. Click Next.
6. The Release Notes Page appears. Click Next.
7. The License Agreement page appears. Click Next.

Step 2. Select Destination Location

1. Specify the Destination Folder.
 - The default is: **C:\ Program Files \ Data Storage \ DS-Client**
 - To specify a different destination folder, click the corresponding Browse button and specify a new directory path.
2. Click Next.

Step 3. Select Program Folder

A Program Folder will be created to contain the program icons.

1. The Select Program Folder screen appears.
2. To change the destination program folder, either create a new folder by typing a name in the Program Folders field, or select an existing folder from the list box.
3. Click Next.

Step 4. Select Installation Options

1. The Select Installation Options screen appears.
2. Three options are available:

Type	Description
Typical	Installs all the essential DS-Client and DS-User Software. See: Typical Installation
DS-User only	This option is for end-user workstations. You can install DS-User on any network computer, so end-users can access the DS-Client and specify their own backup sets. See: DS-User Only Installation
Custom	Allows you to selectively install DS-User and DS-Client components (you can install all components). Additional components include support for MS SQL Server, NetWare, MS Exchange, UNIX, as well as the DS-User Guide (PDF file). See: Custom Installation

3. By default, the Typical installation is selected.
4. Click Next. Refer to the section pertaining to the installation option selected:
 - [“Typical Installation” on page 8](#)
 - [“DS-User Only Installation” on page 13](#)
 - [“Custom Installation” on page 13](#)

Typical Installation

Step 5. Select Microsoft SQL Server Instance

1. The Select a Microsoft SQL Server Instance screen appears. You must specify the database instance.
 - **Install** (local computer only): If this option is available, you can install a new MSDE Instance. Click Next and the installation runs MSDE setup.
WARNING:MSDE has a maximum database limit of 2GB.
 - **Select**: A list of database Instances currently visible from the installation computer appears. Select one of the database Instances from the list, or type in the target computer and instance manually (computer_name\instance_name).
Note: The MS SQL Server must be configured with a “case-insensitive” sort order.

Note: If you are using a remote SQL server for the DS-Client database, make sure the SQL Server has rights to dump the DS-Client database in the installation’s “\db” subfolder (specified in [“Step 2. Select Destination Location” on page 6](#)). To use a remote MS SQL 2005, you must make sure “Local and remote connections” is selected in that database’s “SQL Server Surface Areas Configuration”.

2. Click Next.

Step 6. Select Installation Type

1. The Select Installation Type screen appears.
2. Two installations are available:

Type	Description
Normal	A functioning DS-Client is installed.
Self-Contained Installation	This option does not require any additional information from a Service Provider. You do not need a connection to the DS-System, since no data will be sent off site. If the local data storage location is specified, DS-Client is installed to create Self-Contained backup sets that perform backup / restore using only local storage (or Statistical backup sets). If the local data storage is not specified, DS-Client is installed to create only Statistical backup sets (for you to measure your initial backup amount, and the changes to your data in subsequent backups).

3. Click Next. The page that appears depends on the Installation Type selected:
 - **Normal**: Setup continues with [Step 7. Enter Registration Information](#).
 - **Self-Contained**: Setup displays a [Select Data Storage Location](#) page.

Select Data Storage Location

[Self-Contained Installation Only]

1. Specify the Data Storage Location
 - To specify a Data Storage Location, click the corresponding Browse button and specify a new directory path. (The DS-Client will be able to create both Statistical backup sets and Self-Contained backup sets.)
 - If you leave this blank, DS-Client is installed to create Statistical backup sets only (for you to measure your initial backup amount and subsequent data changes.).

Note: The data saved in the Data Storage Location will not be encrypted.

2. Click Next. Setup skips to [Step 13. DS-Client Startup / Service Logon](#)

Step 7. Enter Registration Information

1. The Enter Registration Information screen appears.
2. Enter the appropriate information in each field of the screen.
 - Name: Enter a descriptive name for this DS-Client. This name appears in brackets in the Connect to DS-Client Service screen. (In the JAVA version, it also appears in the list of available DS-Client computers.)
 - Account #: Enter your Account number.
 - DS-Client #: Enter your DS-Client number.
3. Your Account and DS-Client numbers must match those provided to you by your Service Provider System (see: [IV\) Obtain the DS-Client Installation Program](#) in the Before You Install section).
4. Click Next.

Step 8. Select DS-System Connection Type

Specify how the DS-Client (on your computer) will connect to the DS-System (at an off-site location).

1. The Select DS-System Connection Type screen appears.
2. Select the connection type:

Connection	Description
Dial-up	If you use a dial-up adapter (e.g. modem, ISDN card, etc.), select Dial-Up.
Direct LAN	In all other cases, (e.g. cable modem, a connection via router/proxy) select Direct LAN. Setup will skip to Step 10. Specify TCP/IP Parameters .

3. Click Next.

Step 9. Select Dial-Up Network Connection

If you are using a dial-up line (e.g. ISDN, modem, etc.), you must specify the Dial-Up Network Connection that the DS-Client will use.

1. The Select Dial-Up Network Connection screen appears.
2. Select from the list of phonebook entries, or create a new entry. These connections are set with the DS-Client computer's Dial-Up Networking utility.
 - You may add or edit phonebook entries, by clicking the New or Edit buttons. These call the appropriate Dial-Up Networking screens.
 - If you are using a dial-up connection to an Internet Service Provider, you can use the same phonebook entry.
3. Once you have selected a connection, enter the User Name and Password to the dial up site. (i.e.: If this is your Internet Service Provider – enter your username/password to the ISP. If this is direct to the DS-System – enter the username/password issued by your Service Provider.)
4. Click Next.

Step 10. Specify TCP/IP Parameters

This screen displays the port numbers used by DS-Client and DS-System.

1. The Specify TCP/IP Parameters screen appears.
2. Click Next.

Step 11. Specify DS-System Address

You received the IP address of the DS-System (see: [IV\) Obtain the DS-Client Installation Program](#) in the Before You Install section). The DS-Client requires this address in order for it to connect to the DS-System.

1. The Specify DS-System Address screen appears.
2. Enter the IP address of the DS-System your DS-Client will be using. Your Service Provider may have more than one IP address for the DS-System, if this is the case you can specify any or all of them.
3. Click Next.

Step 12. Set Default Generations

1. The Specify Default Generations screen appears.
2. Enter a number between 1-999 here:
 - Each generation of a file takes up additional space on the DS-System.
 - New generations are backed up if the source file was changed since the last backup.
 - The default number will appear for all backup items when new backup sets are created (this number can be changed manually in the DS-User GUI).
3. Skip compression on compressed files:
 - DS-Client will not apply its compression to files identified as already being compressed. The Delta algorithm will not be applied either. This will save CPU time during backups.
 - Uncheck this box to gain the potential of additional compression savings in terms of file transmission size. More CPU time will be used.
4. Click Next.

Step 13. DS-Client Startup / Service Logon

1. The DS-Client Service Logon Account screen appears. You are prompted to enter the account for the DS-Client *Service* to use.
2. Enter the Windows 2000 / XP / 2003 User Account and Password the DS-Client service will use in the appropriate fields:
 - This must be a valid Windows user account that has already been created.
 - This account should be a member of the Administrators Group.
3. By default, the Auto Start box is checked. This means the DS-Client service starts automatically each time the DS-Client computer boots (recommended).
 - Uncheck this box if you do not want the DS-Client Service to start on reboot. (This means you must manually start the Service before you can use it.)
4. Click Next.

Step 14. Select Encryption Key(s)

1. The Encryption Keys Setup screen appears. In this screen, you must set the encryption key that the DS-Client will use. (See: **V** **Select your encryption key(s)**)
 - Choose an encryption type (DES or AES) and level (# of bits) from the list.
 - An encryption key is case sensitive. Its length (in characters) depends on the type and level of encryption selected. For better security, do not use dictionary words or proper names, and try to randomly mix numbers in with the letters.
 - Keep the key(s) in a secure location. It is necessary if you ever need to reinstall your DS-Client (e.g. if the computer was destroyed in a disaster) to a new computer.
2. **Private Key:** You must set the private key for your DS-Client.
 - **Normal Installation:** Backup data from your DS-Client installation will be encrypted with this key.
 - **Self-Contained Installation:** Database data from your DS-Client installation will be encrypted with this key. (The data saved in the Data Storage Location will not be encrypted.) The default Private Key type is **AES128**, and the value is "1111111111111111" (16 characters).
3. **Account Key:**
 - **Normal Installation:** Common backup data from all your DS-Client installations will be encrypted with this key.
 - **Self-Contained Installation:** [Optional] This Key will only be used if you upgrade to the Full DS-Client Service.
4. Click Next.

Step 15. Specify Notification Levels

The Specify Notification Levels screen appears. You must set the free space levels at which warnings occur, and when the DS-Client service stops.

1. Set the following notification levels

Space available for:	DS-Client DB
Warning level:	When the free space on the DS-Client Database falls below this level, a message is recorded in the Event Log and a popup message will appear in DS-User.
Emergency level:	When the free space on the DS-Client Database falls below this level, a message is recorded in the Event Log and a popup message will appear in DS-User.
Stop service level:	When the free space on the DS-Client Database falls below this level, a message is recorded in the Event Log and the DS-Client service will stop. You will have to free up space manually before the DS-Client service can run again.

2. Click Next.

Step 16. Start Copying Files

1. The Start Copying Files screen appears.
2. Click Next.
3. The installation copies the files according to your setup specifications.

Step 17. Database Dump File

If you are installing a new version of the DS-Client, a dump of your old DS-Client database file may be made. Otherwise, the installation skips to [Step 18. Finish Installation](#).

1. The Database installation screen appears.
2. Select the dump location.
 - The default is in the \\...\DS-Client\db subdirectory
 - To specify a different folder, click the corresponding Browse button and specify a new directory path.
3. Click Next.

Step 18. Finish Installation

1. The Setup Complete screen appears once all files are copied.
2. Click Finish to complete the installation.

Custom Installation

A custom installation allows you to select specific components to install (or exclude from installation).

1. The Select Components screen appears after the Select Installation Options screen.
2. Select Components as required, by clicking the checkboxes beside each item. A total file size for the selected component is provided on the right.
3. Setup continues from **Step 5. Select Microsoft SQL Server Instance** of the Typical installation. Some screens may not appear, depending on the item(s) selected for installation.
 - In the Encryption Keys Screen, the Account Encryption Key can be specified. This is only necessary if you have more than one DS-Client.

DS-User Only Installation

You can install DS-User on any workstation that can see the DS-Client computer.

DS-User is the user interface to the DS-Client, and distributing it allows end-users to access the DS-Client and specify their own backup sets from their local computer. It can also be installed individually on network workstations, to allow remote management of the DS-Client.

1. Continue clicking Next until the Specify TCP/IP Parameters screen appears.
2. Enter the TCP/IP address of DS-Client. If the DS-Client is located on the same subnet as your workstation, you may leave this field blank.
3. Continue clicking Next until the Setup Complete screen appears.
4. Click Finish.

LITE Installation

LITE installation runs a minimal installation.

This is for single PC or Laptop users with no network backup requirements. It will only install the MS Access database for the DS-Client.

Step 1. Run the LITE Installation Program

Depending on your selections, some different screens will appear. These differences are noted below.

1. Run the installation program.
2. Choose the Setup Language:
 - English
 - German

Note: The selected language will be installed for the DS-Client service. Once set, the DS-Client Service language cannot be changed (for logs and popup messages). The DS-User GUI language can be changed from the Initialization screen (if the required language components have been installed).

3. Click OK.
 - If you are missing some prerequisite components, you will be prompted to install them.
 - Click Next. You will be prompted to select the components to install or upgrade. You may have to reboot the computer.
 - Once the prerequisites are installed, setup continues.
4. Click Next to install DS-Client components.
5. The Welcome Page appears. Click Next.
6. The License Agreement page appears. Click Next.

Step 2. Select Destination Location

1. The Choose Destination Location screen appears.
2. The default destination folder is:

```
<system_drive> : \ Program Files \ Data Storage \ DS-Client
```
3. To specify a *different* destination folder, click the Browse Button.
 - The Choose Directory screen appears.
 - Specify a new directory path
 - Click OK.
 - The Choose Destination Location screen returns with the selected path in the destination folder field.
4. Click Next.

Step 3. Select Program Folder

A Program Folder will be created to contain the program icons.

1. The Select Program Folder screen appears.
2. To change the destination program folder, either create a new folder by typing a name in the Program Folders field, or select an existing folder from the list box.
3. Click Next.

Step 4. Enter Registration Information

1. The Enter Registration Information screen appears.
2. Enter the appropriate information in each field of the screen.

- Name: Enter a descriptive name for this DS-Client. This name appears in brackets in the Connect to DS-Client Service screen. (In the JAVA version, it also appears in the list of available DS-Client computers.)
 - Account #: Enter your Account number.
 - DS-Client #: Enter your DS-Client number.
3. Your Account and DS-Client numbers must match those provided to you by your Service Provider System (see: [IV\) Obtain the DS-Client Installation Program](#) in the Before You Install section).
 4. Click Next.

Step 5. Select DS-System Connection Type

Specify how the DS-Client (on your computer) will connect to the DS-System (at an off-site location).

1. The Select DS-System Connection Type screen appears.
2. Select the connection type:

Connection	Description
Dial-up	If you use a dial-up adapter (e.g. modem, ISDN card, etc.), select Dial-Up.
Direct LAN	In all other cases, (e.g. cable modem, a connection via router/proxy) select Direct LAN. Setup will skip to Step 7. Specify TCP/IP Parameters.

3. Click Next.

Step 6. Select Dial-Up Network Connection

If you are using a dial-up line (e.g. ISDN, modem, etc.), you must specify the Dial-Up Network Connection that the DS-Client will use.

1. The Select Dial-Up Network Connection screen appears.
2. Select from the list of phonebook entries, or create a new entry. These connections are set with the DS-Client computer's Dial-Up Networking utility.
 - You may add or edit phonebook entries, by clicking the New or Edit buttons. These call the appropriate Dial-Up Networking screens.
 - If you are using a dial-up connection to an Internet Service Provider, you can use the same phonebook entry.
3. Once you have selected a connection, enter the User Name and Password to the dial up site. (i.e.: If this is your Internet Service Provider – enter your username/password to the ISP. If this is direct to the DS-System – enter the username/password issued by your Service Provider.)
4. Click Next.

Step 7. Specify TCP/IP Parameters

This screen displays the port numbers used by DS-Client and DS-System.

1. The Specify TCP/IP Parameters screen appears.
2. Click Next.

Step 8. Specify DS-System Address

You received the IP address of the DS-System (see: [IV\) Obtain the DS-Client Installation Program](#) in the Before You Install section). The DS-Client requires this address in order for it to connect to the DS-System.

1. The Specify DS-System Address screen appears.

2. Enter the IP address of the DS-System your DS-Client will be using. Your Service Provider may have more than one IP address for the DS-System, if this is the case you can specify any or all of them.
3. Click Next.

Step 9. Set Default Generations

1. The Specify Default Generations screen appears.
2. Enter a number between 1-999 here:
 - Each generation of a file takes up additional space on the DS-System.
 - New generations are backed up if the source file was changed since the last backup.
 - The default number will appear for all backup items when new backup sets are created (this number can be changed manually in the DS-User GUI).
3. Skip compression on compressed files:
 - DS-Client will not apply its compression to files identified as already being compressed. This will save CPU time during backups.
 - Uncheck this box to gain the potential of additional compression savings in terms of file transmission size. More CPU time will be used.
4. Click Next.

Step 10. DS-Client Service Logon Account

1. The DS-Client Service Logon Account screen appears. You are prompted to enter the account for the DS-Client *Service* to use.
2. Enter the Windows 2000 / XP / 2003 User Account and Password the DS-Client service will use in the appropriate fields:
 - This must be a valid Windows user account that has already been created.
 - This account should be a member of the Administrators Group.
3. By default, the Auto Start box is checked. This means the DS-Client service starts automatically each time the DS-Client computer boots (recommended).
 - Uncheck this box if you do not want the DS-Client Service to start on reboot. (This means you must manually start the Service before you can use it.)
4. Click Next.

Step 11. Select Encryption Key(s)

1. The Encryption Keys Setup screen appears. In this screen, you must set the encryption key that the DS-Client will use. (See: **V**) **Select your encryption key(s)**)
 - Choose an encryption type (DES or AES) and level (# of bits) from the list.
 - An encryption key is case sensitive. Its length (in characters) depends on the type and level of encryption selected. For better security, do not use dictionary words or proper names, and try to randomly mix numbers in with the letters.
 - Keep the key(s) in a secure location. It is necessary if you ever need to reinstall your DS-Client (e.g. if the computer was destroyed in a disaster) to a new computer.
2. Private Key: You must set the private key for your DS-Client. Backup data from your DS-Client installation will be encrypted with this key.
3. Account Key: You may set the Account Key for your DS-Client in the same manner as for the Private Key above. (In general, this is not needed for Laptop and Single PC installations.)
4. Click Next.

Step 12. Create Initial Backup Set

1. The Create Initial Backup Set screen appears. This is optional. It will create a backup set of the DS-Client computer, consisting of Registry / System State and the My Documents folder for each user on the DS-Client computer.

Note: This screen only appears if this is the first installation of the DS-Client on the target computer.

2. Select an initial backup set option:
 - Do not create default backup set (skip to [Step 13. Start Copying Files](#))
 - Create default backup set
 - Create default backup set and show total file size
3. Click Next.
 - If you selected to create an initial backup set, a second screen will appear for you to view the contents of this backup set. When you are satisfied with the selection, click Next.

Step 13. Start Copying Files

1. The Start Copying Files screen appears.
2. Click Next
3. The installation copies the files according to your setup specifications.

Step 14. Database Dump File

If you are installing a new version of the DS-Client, a dump of your old DS-Client database file may be made. Otherwise, the installation skips to [Step 15. Finish Installation](#).

1. The Database installation screen appears.
2. Select the dump location.
 - The default is in the \\...\DS-Client\db subdirectory
 - To specify a different folder, click the corresponding Browse button and specify a new directory path.
3. Click Next.

Step 15. Finish Installation

1. The Setup Complete screen appears once all files are copied.
2. Click Finish to complete the installation.