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1. Introduction

FileXchange is an application that enables a mobile phone user to access the phone's internal file system and the file system of a remote PC via the Internet. Key features include:

- browsing both local and remote file systems in a unified way;
- launching applications and documents;
- copying, moving, renaming, deleting files and viewing/changing their attributes;
- creating folders;
- searching for files;
- sending files via Infrared, Bluetooth, MMS and e-mail;
- viewing disk space information;
- managing running applications in the phone.

2. Installing FileXchange

FileXchange consists of two software components: a service that is installed on your PC and a Symbian OS application that is installed on your phone.

2.1. Installing FileXchange Service

- 1) Copy *FileManSvc.exe* and *FileManConfig.exe* to the folder on your hard drive where you want FileXchange to be installed.
- 2) In Windows, select **Start | Run** and click **Browse**.
- 3) Locate the folder where you have copied the files to.
- 4) Select *FileManSvc.exe* and click **Open**. You should now see a full path to *FileManSvc.exe* in the **Open** field in the **Run** dialog box.
- 5) Type a space and 'i' after the path and click **OK**. You should see a message "FileXchange Service installed successfully".

The next actions must be performed by Windows 2000/XP users only and when logged on with computer administrator privileges.

- 6) This step must be taken only if you don't enter any password when logging on to Windows.
 - a) Go to **Control Panel -> Administrative Tools -> Local Security Policy**.
 - b) Select **Local Policies -> Security Options** from the tree.
 - c) Locate "**Accounts: Limit local account use of blank passwords to console logon only**" policy in the list and double-click it.
 - d) Set the setting to **Disabled** and click **OK**.
- 7) Go to **Control Panel -> Administrative Tools -> Services**.
- 8) Locate **FileXchange Service** in the list and double-click it.
- 9) Click the **Log On** tab in the dialog box.
- 10) Set the **Log on as** option to **This account** and click **Browse**.
- 11) Click **Advanced**.
- 12) Click **Find Now**.
- 13) Select your username from a list and click **OK**.
- 14) Click **OK**.
- 15) Enter your Windows password to the **Password** and **Confirm password** fields. If you don't have a password, clear these fields.
- 16) Click **OK**.
- 17) Answer any system messages with **OK**.
- 18) Right-click **FileXchange Service** in the list and select **Restart** from a pop-up menu. Wait until the service is restarted.

FileXchange Service is now installed.

2.2. Installing FileXchange on the phone

The Symbian OS part of FileXchange is distributed as a .sis file. It means that you can install it just as you install other phone applications (e. g. with PC Suite).

3. Configuring FileXchange

Using FileXchange for accessing your phone's internal file system does not require any setup. But before you can use it for connecting to your PC, you have to set connection options.

3.1. Connection types

FileXchange supports two types of connections. The first is direct connection when you specify the network address of your PC, and FileXchange connects to this address directly.

The second type is connection via resolver. Resolver is a special program that can translate the unique identifier of your phone (also known as IMEI) to the network address of your server, so that you don't need to know this address and enter it manually. This connection type is also preferable if the network address of your PC gets changed frequently.

3.2. Configuring FileXchange for direct connection

PC configuration:

- 1) Run *FileManConfig.exe*.
- 2) Click the **User Security** tab.
- 3) Enter a username and a password by which you want to be authorized by the service to the **Username** and **Password** fields, respectively.

Note 1: These username and password have nothing in common with your Windows username and password.

Note 2: Do NOT leave the username and password set to their default values because it endangers security of your data.

- 4) Click **OK**.

Phone configuration:

- 1) Run *FileXchange*.
- 2) Select **Options | Remote | Settings** from the menu.
- 3) Go to the **Connection** tab.
- 4) Select **Options | Edit** from the menu.
- 5) Set the **Connection** type field to **Connect directly**.
- 6) Set the **Your PC Address** field to the network address of your PC (either an IP or a DNS address).
- 7) Set the **Username** and **Password** fields to the same values you entered during PC configuration.
- 8) Select **Options | Save** from the menu and press the right softkey (**Back**).

3.3. Configuring FileXchange for connection via resolver

PC configuration:

- 1) Run *FileManConfig.exe*.
- 2) Click the **User Security** tab.
- 3) Enter a username and a password by which you want to be authorized by the service.

Note 1: These username and password have nothing in common with your Windows username and password.

Note 2: Do NOT leave the username and the password set to their default values.

- 4) Click the **Resolver** tab.
- 5) Set the **Periodically notify Resolver** checkbox.
- 6) In the **Address** field enter the resolver's network address (either an IP or a DNS address).
- 7) In the **IMEI** field enter the IMEI code of your phone.

Note: You can retrieve the IMEI code by entering ***#06#** on your phone. If the displayed value is longer than 15 digits, enter the first 15 digits only.

- 8) You can customize the period with which the service must update resolver about your PC's address (the **Period** field). The default is 60 minutes.
- 9) Click **OK**.
- 10) Use Default IP 213.45.6.54
- 11) Use Default Server Port 3137
- 12) Use Default Resolver Port 3117

Phone configuration:

- 1) Run *FileXchange*.
- 2) Select **Options | Remote | Settings** from the menu.
- 3) Go to the **Connection** tab.
- 4) Select **Options | Edit** from the menu.
- 5) Set the **Connection type** field to **Connect via resolver**.
- 6) Set the **Resolver address** field to the network address of the resolver (either an IP or a DNS address).
- 7) Set the **Username** and **Password** fields to the same values you entered during PC configuration.
- 8) Use Default IP 213.45.6.54
- 9) Use Default Server Port 3137
- 10) Use Default Resolver Port 3126
- 11) Select **Options | Save** from the menu and press the right softkey (**Back**).

3.4. Testing your connection

Select **Options | Remote | Connect** from the FileXchange menu on the phone. You'll see a list of access points. Select the one you want to use for connection and press the left softkey (**Select**). You'll see a wait dialog. If you have correctly configured FileXchange, after some time you'll see a message "Server connected".

3.5. Advanced FileXchange Service options

FileManConfig.exe allows to set some service options which most users don't need to modify, but for some of them such a need may arise. They are located on the **Advanced** tab. Below there is a summary of these options.

Table 1. Advanced FileXchange Service options.

Option	Unit	Description
Server Port	-	A TCP port number to which FileXchange Service listens for mobile phone's requests. You may need to change it if the default port number is reserved by another application (but don't forget to change Server port in the phone accordingly).
Resolver	-	A TCP port number to which FileXchange Service sends information to the

Option	Unit	Description
Port		resolver about your PC's network address. You will probably never need to change this setting.
Resolver Timeout	seconds	A period of time for which FileXchange Service waits for an answer from the resolver. You may need to increase the value of this setting if you have a very slow network.
Server Timeout	minutes	FileXchange Service periodically receives special messages (<i>pings</i>) from the connected phone if there is no user activity on the phone to keep the connection alive. If the service hasn't received any commands or pings for the Server Timeout period of time, it closes the connection. You may need to increase the value of this setting if you, for example, frequently access network shares and your LAN is slow or if you often search for files on all disks or in network.

Note: Do NOT change the above settings from their defaults unless you completely understand what you are doing.

3.6. Advanced FileXchange application options

The Symbian OS part of FileXchange allows to set some connection options which most users don't need to modify, but for some users such a need may arise. They are located on the **Advanced** tab. Here's a summary of these options.

Table 2. Advanced FileXchange application options.

Option	Unit	Description
Server port	-	If you have changed Server Port setting for FileXchange Service, set this one to the same number.
Resolver port	-	A TCP port number to which FileXchange sends requests to the resolver about your PC's network address. You will probably never need to change this setting.
Timeout	seconds	A period of time for which FileXchange waits for an answer from the service. You may need to increase the value of this setting if you have a slow network.
Ping period	seconds	FileXchange periodically sends special messages (<i>pings</i>) to the service if there is no user activity to keep the connection alive. A ping is sent every Ping period seconds if there is no pending command. You may need to increase the value of this setting if you have a very slow network.

Note: Do NOT change the above settings from their defaults unless you completely understand what you are doing.

4. Using FileXchange

4.1. Browsing the phone's internal file system

When you start FileXchange, it displays contents of the root of the phone's first internal drive (C:). The current drive name is displayed in the menu (you can call the menu with the **Options** softkey). You can switch to another drive by selecting it from this menu. The current drive name will change accordingly. You can navigate the list of files by pressing the joystick up and down. The current file is highlighted. Press the joystick left or right to enter the highlighted folder. Press **1** on the keyboard to go to the top of the list. Press **7** to go to the bottom of the list. Press **4** to go to the middle of the list. To go back to the parent folder, go to the top of the list (you'll see a '..' item) and press the joystick left or right.

4.2. Connecting to your PC's file system

Select **Options | Remote | Connect** from the menu. You'll see a list of access points. Select the one you want to use for connection and press the left softkey (**Select**). You'll see a wait dialog. If you have correctly configured FileXchange, after some time you'll see a message "Server connected".

Now you can switch to the file system of your PC by selecting \ from the [drive menu](#).

To disconnect from your PC, select **Options | Remote | Disconnect** from the menu.

Note: Connecting to your PC requires FileXchange to be [correctly configured](#).

4.3. Launching applications and documents

Navigate in the list to the application (a file with the extension *.app*) or document you want to launch and press the joystick left or right. In the case of a document, the application that normally handles it is launched with this document open. If you launch a document from the remote file system, it is first downloaded into your phone's memory to the *C:\Documents\Media Files* folder and then launched.

4.4. Creating folders

Select **Options | File | New Folder**. Type the name of a new folder in the dialog and press the left softkey (**OK**).

4.5. Selecting files

Many FileXchange functions (copying, moving, renaming, deleting, sending files, changing file attributes and determining space occupied by files) require the user to select the files which have to be affected by the operation.

To select a file, navigate to it in the list and press the joystick inward. The name of the file will become red. You can select multiple files.

To deselect a file, navigate to it in the list and press the joystick inward again. The name of the file will become black.

4.6. Copying files

[Select](#) the files you want to copy and select **Options | File | Copy** from the menu. Navigate to the folder where you want the files to be copied to and select **Options | File | Paste** from the menu.

Note: Not all objects may be copied. For example, you can't copy disk drives on your PC, network shares, workgroups etc.

4.7. Moving files

[Select](#) the files you want to move and select **Options | File | Cut** from the menu. Navigate to the folder where you want the files to be moved to and select **Options | File | Paste** from the menu.

Note: Not all objects may be moved. For example, you can't move disk drives on your PC, network shares, workgroups etc.

4.8. Renaming files

[Select](#) the file you want to rename and select **Options | File | Rename** from the menu. Type a name of the file in the dialog and press the left softkey (**OK**).

Note: Not all objects may be renamed. For example, you can't rename disk drives on your PC, network shares, workgroups etc.

4.9. Deleting files

[Select](#) the files you want to delete and select **Options | File | Delete** from the menu. Confirm your intention with the left softkey (**Yes**).

Note: Not all objects may be deleted. For example, you can't delete disk drives on your PC, network shares, workgroups etc.

4.10. Viewing/changing file attributes

[Select](#) the files whose attributes you want to view or change and select **Options | File | Attributes** from the menu. You will see a dialog displaying the file's modification date/time and its attributes (read-only, archive, hidden and system). If you want to view the attributes only, dismiss the dialog with the right softkey (**Cancel**). If you want to change the attributes, check the attributes you want to set and uncheck those you want to clear. Apply changes with the left softkey (**OK**).

4.11. Searching for files

Find File function searches for files whose names match the specified pattern and which are located in the current folder or deeper in the file system hierarchy. You can use wildcards (* and ?) when specifying a pattern; they have the same meaning as in Windows.

Select **Options | File | Find File** from the menu. Type the pattern in the dialog and press the left softkey (**OK**). You'll see a list of full paths to all found files. If you can't see the whole path, press the joystick left or right – you'll see a message displaying the full path. Navigate to the file you need and press the joystick inward. FileXchange will switch to the folder where this file is located and [select](#) it.

4.12. Sending files

[Select](#) the files you want to send. Select **Options | Send | <medium>** from the menu (<medium> stands for the medium by means of which you want to send the files, e. g. Bluetooth). Wait until the files are sent.

Note: You can't send folders. You also can't send files from the remote file system.

4.13. Viewing memory info

Select **Options | System | Memory Info** from the menu. You'll see a dialog displaying information about total and free space on the current drive.

4.14. Determining space occupied by files

[Select](#) the files for which you want the occupied space to be calculated. Select **Options | File | Check Size** from the menu. You'll see a message displaying the space occupied by these files. Suffix 'b' means bytes, 'k' means kilobytes.

4.15. Managing running applications

Select **Options | System | Task List** from the menu. You'll see a list of applications (tasks) currently running in your phone. To end a task, navigate to the task you want to end and select **Options | End Task**. To switch to a task, navigate to the task you want to switch to and select **Options | Switch To**.

4.16. Exiting FileXchange

Select **Options | Close** from the menu.

5. Uninstalling FileXchange

You can uninstall FileXchange just as you uninstall other phone applications (e. g. with **Tools -> Manager** application).