



# MobyExplorer

## The Complete File Manager and FTP Client

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# 1 Introduction

MobyExplorer is a powerful Java J2ME File Manager and FTP Client for Java J2ME enabled mobile phones.

It is the complete tool for managing your files on your phone or FTP server in any way. It has support for military strength file encryption, a built in text editor which is also integrated with the encryption engine so you can write completely secure notes, and support for file compression using the GZip protocol. The Text Editor can also be used to edit files or web pages remotely on a FTP server.

# 2 Features

The main features of MobyExplorer are:

- Powerful File Manager with features like Copy/Paste, Rename, Delete, Create Directory, View File Properties, Write Protection of files, Hidden Files (provided that the underlying file system supports it).
- FTP Client with features equivalent of a FTP client on Desktop computers.
- File Encryption utility to easily secure your sensitive files using military strength Twofish encryption.
- Text Editor which can be used to view and edit text files both locally on the phone and remotely on a FTP server.
- Write and view completely secure notes using the built-in text editor which is integrated with the encryption engine.
- File Compression utility to save discspace and bandwidth using the GZip/GUnzip tool.
- Edit your website using the built in text editor, and then deploy it using the FTP client. Alternatively edit the web page remotely on the web-site.
- Multiple file management for all the file management features (including the Encryption and GZip features).
- Flexible dual file system view for seamless file management between file systems. Each view can either be connected to your local file system on your phone or a remote FTP file server. Any combination of local and remote file systems can be used. Local-Local, Local-Remote or even Remote-Remote. Files can be seamlessly transferred between the file systems in any direction.
- MobyExplorer is signed using a Thawte certificate which means no more annoying security prompts when accessing the local file system.

## 3 Installation

### 3.1 Pre-requisites

MobyExplorer is signed using a Thawte Premium Server certificate for your security. In order to run MobyExplorer in the smoothest way you need to have the Thawte Premium Server root certificate enabled on your phone. All new Nokia and Sony Ericsson phones should have the Thawte root certificate on them. However some operators choose to remove this certificate and only allow applications signed with the Operator's own certificate to be installed.

The easiest way to find out if you have the Thawte root certificate is to try and install MobyExplorer using the instructions in the below section. If the Thawte root certificate is not present on the phone, the installation will fail. In this case go to the section "**Checking if Thawte certificate is correctly configured**" below to find out if the Thawte certificate is in the phone and correctly configured.

If this check confirms that you don't have the Thawte root certificate, then you can go to our web-site to download the unsigned version of MobyExplorer. However, using the unsigned version will mean that you will receive Security prompts every time MobyExplorer accesses the phone file system.

### 3.2 Download Free Trial Version

The trial version is fully functional during a trial period of 10 days. After the trial period has expired, you need to buy MobyExplorer to continue to use it.

We encourage you to try the free trial version to see that it works on your phone before purchasing MobyExplorer. Please consult our web page for a list of supported devices.

#### ***IMPORTANT!***

*After you have installed MobyExplorer you need set the **phone access permissions** to **always allow** access to the phone file system and the internet. If you don't do this you will get continuous security prompts every time MobyExplorer accesses the file system. Please see the below section for instructions on how to do this.*

To download the free version of MobyExplorer you have 2 options:

#### **Download from your mobile phone:**

The easiest way to download MobyExplorer to your phone is to use the WAP/XHTML browser in your phone.

Just go to the address [wap.bermin.net](http://wap.bermin.net) and click on "Download MobyExplorer". Then save MobyExplorer to your phone.

#### **Download from your computer:**

To download MobyExplorer from your computer you need to go to our web page and follow the instructions there to download. Then transfer the MobyExplorer.jad file to your phone using infrared, bluetooth or cable. Then open the downloaded MobyExplorer.jad file. This will start the download of MobyExplorer automatically.

### 3.3 Enabling access permissions

After you have installed MobyExplorer you need to enable the access permissions to enable MobyExplorer to access the phone file system and the internet.

How this is done depends on your Mobile Phone.

#### **Sony Ericsson phones:**

Go to either **Applications** or **Games** (depending on where you installed MobyExplorer). Highlight MobyExplorer, but instead of opening it, press **More->Permissions**.

Select **Internet Access** and set the access permissions to **Never Ask**.

Select **Read User Data** and set the access permissions to **Never Ask**.

Select **Write User Data** and set the access permissions to **Never Ask**.

If you don't have the option to set these to Never Ask, then you most likely installed the unsigned version of MobyExplorer or you don't have the Thawte root certificate on your phone. See the previous sections for a discussion on this and how to download the signed version.

#### **Nokia Series 60 phones:**

Go to Tools > Manager > MobyExplorer > Options > Suite settings

Select **Internet Access** and set the access permissions to **Never Ask**.

Select **Read User Data** and set the access permissions to **Never Ask**.

Select **Write User Data** and set the access permissions to **Never Ask**.

If you don't have the option to set these to Never Ask, then you most likely installed the unsigned version of MobyExplorer or you don't have the Thawte root certificate on your phone. See the previous sections for a discussion on this and how to download the signed version. In this case you can set these options to Session or Always Ask.

#### **Nokia Series 40 phones:**

Go to MobyExplorer->Options->Application access->Phone access

Select **Internet Access** and set the access permissions to **Never Ask**.

Select **Read User Data** and set the access permissions to **Never Ask**.

Select **Add and edit data** and set the access permissions to **Never Ask**.

If you don't have the option to set these to Never Ask, then you most likely installed the unsigned version of MobyExplorer or you don't have the Thawte root certificate on your phone. See the previous sections for a discussion on this and how to download the signed version. In this case you can set these options to Session or Always Ask.

### 3.4 Checking if Thawte certificate is correctly configured

If the installation of MobyExplorer fails this could either be due to that your phone does not have the Thawte Premium Server root certificate, or it could be that it is incorrectly configured.

Please follow the following steps to check that your phoen has the Thawte root certificate correctly installed:

#### **Sony Ericsson phones**

Go to Settings->Connectivity->Internet Settings->Security->Java Certificate.

Please make sure that **Thawte Premium** is in the list of certificates for Java.

If this certificate is not there it means that your operator has chosen to remove this certificate from your phone. In this case you can only run the unsigned version of MobyExplorer.

#### **Nokia Series 60 phones**

Go to Tools -> Settings -> Security -> Certif. Management

Check that you have the **Thawte Premium Server CA** in the list of certificates.

If this certificate is not there it means that your operator has chosen to remove this certificate from your phone. In this case you can only run the unsigned version of MobyExplorer.

If you can find this certificate, then press Options->Trust Settings and make sure that the App. installation is set to Yes.

#### **Nokia Series 40 phones**

Go to Settings->Security Settings->Authority certificates->Certificate list

Check that you have the **Thawte Premium Server CA** in the list of certificates.

If this certificate is not there it means that your operator has chosen to remove this certificate from your phone. In this case you can only run the unsigned version of MobyExplorer.

If you can find this certificate, then press Options->Select use and make sure that the App. signing is enabled.

### **3.5 Register MobyExplorer**

After the trial period has ended you will need to register MobyExplorer to continue using it. You will receive instructions on how to enable MobyExplorer at the time of registration.

## **4 Operation**

### **4.1 General**

MobyExplorer is easy and intuitive to use. If you have used a file manager or FTP client on your desktop computer, you will find it easy to use MobyExplorer.

### **4.2 Twin File System View**

MobyExplorer uses a twin file system view. This means it has 2 independent file system views, which both can be connected to either a local file system on your mobile phone, or a remote file system on a FTP server.

The 2 file systems are seamlessly integrated, which means that you can transfer/copy/paste files between the 2 file systems in any direction.

All combinations of file systems are allowed: Local-Local, Local-Remote, Remote-Local or even Remote-Remote.

You navigate between the 2 file systems by moving your pointing device (joystick/DPAD etc.) to the right or left or by using the key button 4 (left) and 6 (right).

### 4.3 The File Manager

MobyExplorer has a powerful File Manager which can be used to perform usual file management actions such as deleting files or directories, renaming files, creating directories etc.

It also has a file copy/paste function which can be used to copy files within or in-between file systems in a seamless way.

You can view details about each file in the File Properties option in the main menu.

From the same view you can write-protect files to avoid accidentally deleting sensitive files.

You can also mark file as hidden, meaning that they will not be visible in the file system (provided that the underlying file system supports it). If you temporarily need to view hidden files this can be configured from the Settings menu.

The File Manager also has the concept of a Home Directory. You can set your most commonly used directory as your home directory. When you connect to the file system, you will be connected directly to the home directory, without the need to traverse the file system.

## 4.4 The FTP Client

MobyExplorer includes a full-fledged FTP client with features which equals many FTP clients on Desktop computers.

The FTP client is integrated in the File Manager in a completely seamless way. You manage remote files on the FTP server in the same way as you manage files on the local file system.

You can delete files, rename files, create directories, copy/paste/upload files to the other file system, view file details in the same way as you do in the local file system.

Because of the flexible file system view you can even use the FTP client to connect to 2 different FTP servers in the 2 file system views and transfer files between them.

It also has support for a home directory in the same way as on a local file system. By using your most commonly used directory as a home directory you will be connected directly to this directory after you have connected to the FTP server. This means that you don't have to traverse the file system every time you connect to the FTP server.

Other features includes Passive and Active mode operation and support for anonymous login.

## 4.5 The File Encryption Utility

MobyExplorer contains a powerful Twofish Encryption Engine to quickly and easily encrypt and lock-down your sensitive files. Twofish is a military strength technology that the National Institute of Standards and Technology (NIST) have deemed to be one of the top encryption methods in the world. This easy-to-use encryption utility quickly encrypts and decrypts your sensitive files.

### Easy to use

Just select the file that you wish to encrypt, choose a password and click on the Encrypt button.

The file encryption utility supports encrypting multiple files simultaneously. Just click once on each file you want to compress to mark them, and then encrypt or decrypt them just as easy as a single file.

### Virtually Unbreakable Encryption

Twofish Encryption is a 128-bit block cipher that accepts a variable-length key up to 256 bits. For a 128-bit key size, there are approximately 340,000,000,000,000,000,000,000,000,000,000,000 (That is 340 followed by 36 zeros!) possible keys. Not only is Twofish secure, for being so powerful it is fast.

### Write secure notes using the integrated Text Editor

The Encryption engine used in the File Encryption utility is also integrated with the Text Editor in MobyExplorer. This means that you can write completely secure notes using the text editor. The secure notes are automatically stored in encrypted format in the file system, and no clear text is ever stored on the file system. When you open an encrypted file in the text editor (by for example double clicking the file) you will be required to enter the password that was used to store the file in encrypted format. If you re-save the file it will be automatically encrypted using the same password as was used to open the file. This ensures that the encryption chain is never broken.

## 4.6 The Text Editor

MobyExplorer comes with an integrated Text Editor. You can use the text editor to view and edit text files, web pages, notes etc. The files can be stored both locally or remotely on a FTP server.

Opening a file is easy, just double click on the file in the file system or use “Open” in the “Text Editor” menu. Since many phones have a limited screen size you can also use the Text Editor in full-screen mode, which will remove the menu and title bar, and leave more space on the screen for text.

The Text Editor is integrated with the FTP client in MobyExplorer, so you can use the Text Editor to edit or view files remotely, on for example a web site. Opening, editing and saving a file in the text editor on a remote file system, is done in exactly the same way as opening it on the local file system.

As mentioned in the previous section the Text Editor is also integrated with the Encryption utility, which means that you can use the Text Editor to write completely secure notes. When you open an encrypted file you will be requested to type in the password that was used to encrypt the file. If you re-save an encrypted file in the text editor it will always be saved in encrypted format using the same password as you used to open it. To avoid accidentally re-saving an encrypted note in clear text format on the file system, it is not possible to save an encrypted file/note in clear text in the Text Editor, regardless on what save option you use. It will always be saved in encrypted format.

The Text Editor supports most character encodings (such as UTF-8, ISO-8859-1 etc.) provided that the phone supports it.

You can also custom the Text Editor in a variety of ways: You can change the background color, text color, font style, font size and font face (provided that the phone supports it).

## 4.7 The File Compression Utility

MobyExplorer also comes with a built in utility to compress files using the effective Gzip/Gunzip algorithm. This can be used to save valuable space on the file system, or to save bandwidth before transferring a file using the FTP client.

GZipped files can be read by most common compression tools on Windows/Linux/Mac platforms.

Compressing a file is easy: just highlight the file and use the menu to choose Pack->GZip.

Uncompressing is done in the same way but choosing Pack->Gunzip instead.

The file compression utility supports compressing multiple files simultaneously. Just click once on each file you want to compress to mark them, and then use the menu to zip or unzip them.

The compression ratio achieved when compressing a file will depend on the file type. Text files usually can get a very high compression ratio, while as for example picture files usually are already compressed, so only a small compression ratio can be achieved.

## 4.8 File system navigation

You navigate in the file system by using your pointing device (joystick/DPAD etc.), or the key buttons 2 (up) and 8 (down). By moving the pointing device up or down you move the marker indicating which file that is highlighted. You can then use the menu system to perform actions on the highlighted file or folder.

If you want go to another folder, just click on the folder in the file system view. If you want to go back to the previous directory, just press the "back" button, or use the menu command "Back..".

If you want to perform actions on multiple files in one go, you have to "select" these files by clicking on them using your "select/fire" button. These files will then be marked in a separate color. Note that you can only do actions on multiple files, not folders. Clicking on a folder will instead go into that folder.

Double clicking a file will open up the Text Editor for that file. If the file is encrypted you will have to enter your password first.

## **4.9 Main Menu System**

Each item in the menu system is described in the following chapters.

### **4.9.1 Connect**

#### **4.9.1.1 Connect Local**

This will connect you to the local file system on the phone. If you have set a home directory for the local file system (see further down for instructions on how to do this), you will be connected directly to that directory. If not you will be connected to the root file system on your phone.

#### **4.9.1.2 Connect Remote**

This will open up a dialog to connect to a remote FTP server on the internet:

- In the Address field, type the name or the IP number of the FTP server.
- If you want to connect anonymously to a public ftp server, check the "anonymous" checkbox.
- If you are connecting to a personal account on the FTP server, then type the user name and password.
- If you want to connect using a non-standard port number, then indicate this port number.

Just as for the local file system you will be connected directly to your home directory (if you have set one). If you have not set a home directory you will be connected to the default directory for the FTP account that you have logged in to.

In order not to have to re-type all the connection information every time you are connecting to a FTP server, MobyExplorer stores all the connection information for the last FTP session.

#### **4.9.1.3 Disconnect**

This will disconnect you from the current file system.

## **4.9.2 Actions**

### **4.9.2.1 Back**

Go up one level in the folder tree. You can also use the "Back" button if your phone supports it, to do this.

#### **4.9.2.2 Delete**

Delete the current file or directory (or multiple files if selected) from the file system. You can also the Clear button on your phone if your phone supports it. Please note that if you or trying to delete a directory, it needs to be empty (contain no files or directories) before it can be deleted.

#### **4.9.2.3 Rename**

This will rename the current file or folder.

#### **4.9.2.4 Create dir**

This will open up dialog where you can create a new directory in the current file system.

#### **4.9.2.5 Refresh**

This will refresh the current file system.

### **4.9.3 Edit**

#### **4.9.3.1 Copy**

This will copy the file/files to the copy buffer. You can then use paste to paste the file somewhere else in the same or the other file system.

#### **4.9.3.2 Paste**

This will paste the previously copied file/files into the current file system.

#### **4.9.3.3 Upload**

This will upload the currently highlighted/selected file/files from the current file system to the other file system.

#### **4.9.3.4 Set home dir**

This will set the current directory to be the home directory. This means that the next time you connect to the file system you will be connected directly to this directory. You can set one home directory for the local file system and one for the remote file system.

#### **4.9.3.5 Select all**

This will mark all the files on the current file system.

#### **4.9.3.6 Deselect all**

This will unmark all the files on the current file system.

### **4.9.4 Protect**

#### **4.9.4.1 Encrypt**

This will open up a password dialog and then encrypt the currently highlighted or selected files. The password need to be at least 6 characters long.

#### **4.9.4.2 Decrypt**

This will open up a password dialog and then decrypt the currently highlighted/selected files.

### **4.9.5 Pack**

#### **4.9.5.1 GZip**

This will compress (pack) the currently highlighted or selected files to save disc-space or bandwidth. The compression utility uses the GZip protocol.

#### **4.9.5.2 GUnzip**

This will uncompress (un-pack) the currently highlighted or selected files. The utility uses the GUnzip protocol.

### **4.9.6 Text Editor**

#### **4.9.6.1 Open**

This will open up the text editor for the currently highlighted file in the file system. If the file is encrypted it will first ask for a password.

#### 4.9.6.2 New - Empty File

This will open up a new, empty, file in the Text Editor.

#### 4.9.6.3 New - HTML doc

This will open up a new HTML document in the Text Editor

#### 4.9.6.4 Editor Settings

This will open up a Text Editor Settings dialog.

Here you can change the default encoding that the Text Editor will use when opening and saving files. Normally you do not need to change this, and the Default encoding is sufficient. Please note that most phones do not support all the listed encodings. You will receive a notification if you try to choose an encoding that is not supported by the phone.

You can also change the maximum file size of files that is opened with the Text Editor. The default is 10Kb. You can change the maximum file size up to 50Kb.

Please note that the larger the file you read into the Text Editor, the more memory it will consume, and it will affect the performance of the Text Editor. If you get memory problems when using the Text Editor, then try and lower the maximum file size.

### 4.9.7 Properties

This will open up a dialog with detailed information of the highlighted file or directory. You can see information such as file size, date, permissions etc.

If the file you are viewing is a file on the local file system you also have the option to set the file as **write protected**, by ticking the "Read Only" checkbox. This is useful if you want to ensure that a file is not accidentally deleted.

You also have an option to set a file as **hidden**. A hidden file will not be visible in the File System, unless you specifically configure the File Manager to list hidden files (this is done in the MobyExplorer->Settings menu option).

Please note that write protection and hidden attributes will only work if the underlying file system supports such attributes. This is device dependent. You will receive a notification if the underlying file system does not support these attributes.

## 4.9.8 MobyExplorer

### 4.9.8.1 Settings

This will open up a dialog where you can change some settings of MobyExplorer.

- You can configure the FTP client to run in **Passive Mode** by ticking this check box. If it is not checked then the FTP client will run in **Active Mode**.
- You can configure the File Manager to **Show Hidden Files** by clicking this check box. If it is not checked then hidden files will not be shown by the File Manager.
- You can configure what **Anonymous Password** to use if logging into a FTP server anonymously. The default is *anonymous*.
- You can configure the **Cache Size** to use when browsing remote file systems using the FTP client. The number indicates the number of directory listings that should be saved locally in phone memory. This can help to speed up File System traversal because the FTP client does not need to get a new listing of the current directory if it can find it in the cache. It will also save bandwidth. It does however come at the cost of memory, and if you run into problems with memory, then try and set this figure to a lower value.

### 4.9.8.2 Register

This will open up a dialog to register MobyExplorer. This will remove the time limitations as well as remove any other restrictions that are found in the trial version.

### 4.9.8.3 Help

This will open up a help dialog.

### 4.9.8.4 About

This will open up a dialog with information on MobyExplorer.

## 4.9.9 Exit

Close MobyExplorer.

## **4.10 Text Editor Menu System**

### **4.10.1 Save**

This will save the currently open file on the current directory in the file system. Please note that if the currently open file is an encrypted file, then it will be saved in encrypted format using the same password as was used to open it.

### **4.10.2 Save As**

This will open up a dialog to save the currently open file with another file name. The file will be saved in the current directory. Please note that if the currently open file is an encrypted file, then it will be saved in encrypted format using the same password as was used to open it.

### **4.10.3 Save As Encrypted**

This will open up a dialog to save the currently open file in an encrypted format. If the file which is open was a clear text file, you will be asked for a password to use later to decrypt the file.

If the open file was an already encrypted file the same password as was used to decrypt the file will be used to encrypt it. In this case this menu option is identical to the Save As menu option.

### **4.10.4 Full Screen**

This will remove the Menu bar and the Title bar, thus leaving more space for text on the screen. This setting is stored so that the next time you open the Text Editor you will use the same setting as was used the last time.

## **4.10.5 Preferences**

### **4.10.5.1 Background Color**

Here you can choose the background color to use in the Text Editor view. This setting is remembered the next time you open Text Editor.

#### 4.10.5.2 Text Color

Here you can choose the text color to use in the Text Editor view. This setting is remembered the next time you open Text Editor.

#### 4.10.5.3 Font Face

Here you can change what Font face to use in the Text Editor. Please note that some devices only support the **System** font face. This setting is remembered the next time you open Text Editor.

#### 4.10.5.4 Font Style

Here you can choose what Font style to use in the Text Editor. You can choose between **Normal**, **Bold** and **Italic**. This setting is remembered the next time you open Text Editor.

#### 4.10.5.5 Font Size

Here you can choose what Font size to use in the Text Editor. You can choose between **Small**, **Medium** and **Large**. This setting is remembered the next time you open Text Editor.'

#### 4.10.6 Close

This closes the Text Editor. If you have edited the file and forgotten to save it, you will be notified of this.

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