
About the Standard File Package and System 7.0

Your application can use the **Standard File Package** in system 7.0 to present a standard user interface for naming and identifying files. The **Standard File Package** displays the dialog boxes that let the user specify the names and locations of files to be saved or opened, and it reports the user's choices to your application. The new procedures introduced in system 7.0 allow your application to either streamline its interaction with the **Standard File Package** or exercise more control over the user interface.

The features described in the **Standard File Package** are available only in system 7.0 or later. Call the **Gestalt** function, described in the **Compatibility Guidelines**, to determine whether the new features are present.

To use the information in this section you must be familiar with earlier versions of the **Standard File Package**; the file system specification (**FSSpec**) record, described in the **File Manager**, and the new features of the system 7.0 Finder, described in the **Finder Interface**.

The **Standard File Package** handles the interface between the user and your application when the user saves or opens a document. It displays dialog boxes through which the user specifies the name and location of the document to be saved or opened. It allows your application to customize the dialog boxes and, through callback routines, to handle user actions during the dialogs. The **Standard File Package** procedures describe the user's choices through a reply record.

The **Standard File Package** in system 7.0 introduces:

- a pair of simplified procedures that you call to display and handle the standard **Open** and **Save** dialog boxes
- a pair of customizable procedures that you call when you need more control over the interaction
- a new reply record (**StandardFileReply**) that identifies files and folders with a file system specification record and that accommodates the new Finder features
- a new layout for the default dialog boxes

You use the **Standard File Package** to handle the user interface when the user must specify a file to be saved or opened. You typically call the **Standard File Package** after the user chooses **Save**, **Save As**, or **Open** from the **File** menu.

When saving a document, you call one of the **PutFile** procedures; when opening a document, you call one of the **GetFile** procedures. The revised **Standard File Package** in system 7.0 introduces two new pairs of procedures:

- **StandardPutFile** and **StandardGetFile**, for presenting the standard interface
- **CustomPutFile** and **CustomGetFile**, for presenting a customized interface

Before calling any of the new **Standard File Package** procedures, verify that they are available by calling the **Gestalt** function with a selector of

gestaltStandardFileAttr. If **Gestalt** sets the gestaltStandardFile58 bit in the reply, the four new procedures are available. For a complete description of the **Gestalt** function, see the **Compatibility Guidelines**.

All the new procedures return the results of the dialog boxes in a new reply record, **StandardFileReply**.

The reply record identifies selected files with a file system specification (**FSSpec**) record. You can pass the **FSSpec** record directly to a set of new **File Manager** functions provided with system 7.0. The reply record also contains additional fields that support the Finder features introduced in system 7.0.

The **sfGood** field reports whether the reply record is valid. The value is TRUE after the user clicks **Save** or **Open**, FALSE after the user clicks **Cancel**. When the user has completed the dialog box, the other fields in the reply record are valid only if **sfGood** is TRUE.

The **sfReplacing** field reports whether a file to be saved replaces an existing file of the same name. This field is valid only after a call to the **StandardPutFile** or **CustomPutFile** procedure. When the user assigns a name that duplicates that of an existing file, the **Standard File Package** asks for verification by displaying a subsidiary dialog box. If the user verifies the name, the **Standard File Package** sets the **sfReplacing** field to TRUE and returns to your application; if the user cancels the overwriting of the file, the **Standard File Package** returns to the main dialog box. If the chosen name does not conflict with a name that already exists, the **Standard File Package** sets the field to FALSE and returns. Your application can rely on the value of this field instead of checking for and handling name conflicts itself.

The **sfType** field contains the file type of the selected file. (File types are described in the **Finder Interface**) Only **StandardGetFile** and **CustomGetFile** return a file type in this field.

The **sfFile** field describes the selected file, folder, or volume with a file system specification record, which contains a volume reference number, parent directory ID, and name. (See the **File Manager** for a complete description of the file system specification record.) If the selected item is an alias for another item, the **Standard File Package** resolves the alias and places the file system specification record for the target in the **sfFile** field when the user completes the dialog. If the selected file is a stationery pad, the reply record describes the file itself, not a copy of the file.

The **sfScript** field identifies the script in which the name of the document is to be displayed. (This information is used by the Finder and by the **Standard File Package**. See the **Script Manager** section of the **Worldwide Software Overview** for a list of defined script codes.) A script code of **smSystemScript** (-1) represents the default system script.

The **sfFlags** field contains the Finder flags from the Finder information record in the catalog entry for the selected file. (See the section entitled **Finder Interface** for a description of the Finder flags.) This field is returned only by **StandardGetFile** and **CustomGetFile**. If your application supports stationery, it should check the stationery bit in the Finder flags to determine whether to treat the selected file as stationery. Unlike the Finder, the **Standard File Package** does not automatically create a document from a stationery pad and pass your application the new document. If the user opens a stationery document from within an application that does not support stationery, the **Standard File Package** displays a dialog box warning the user that

the master copy is being opened.

The sflsFolder field reports whether the selected item is a folder (TRUE) or a file or volume (FALSE).

The sflsVolume field reports whether the selected item is a volume (TRUE) or a file or folder (FALSE).