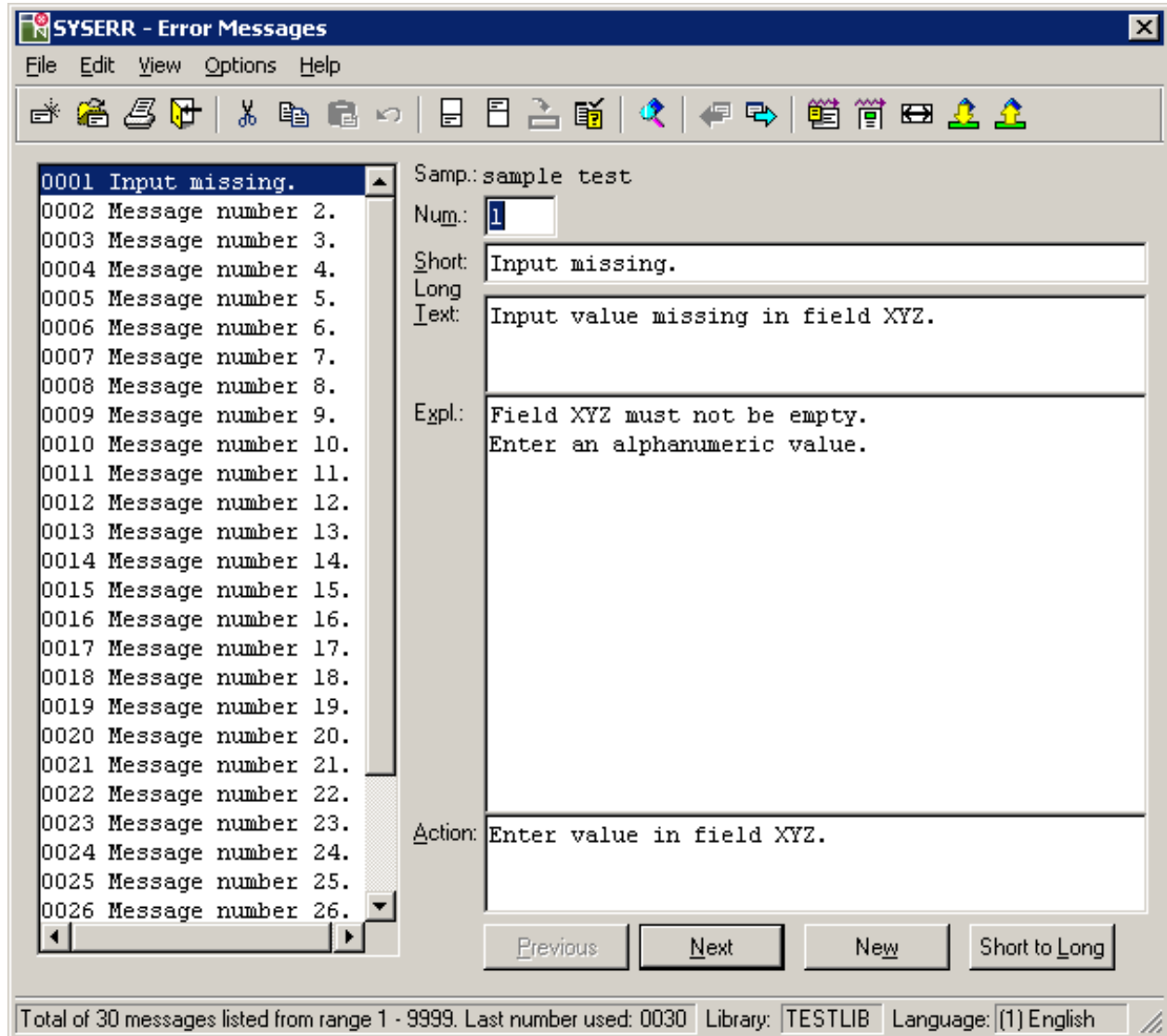# SYSERR Utility Window and Functions

From the **SYSERR - Error Messages** window, you can invoke all SYSERR utility functions available for creating and maintaining user-defined or Natural system messages:

The window is divided into two sections that contain data on messages available in the current library:

- The left section with a list box displaying all messages available for the current language.

- The right section displaying the fields with the text of the current message. The current message is the message selected (highlighted) in the list box.

If no message exists for the specified library, both sections are empty.

The **SYSERR - Error Messages** window provides menus and command buttons for executing SYSERR utility functions. As an alternative to menus and command buttons, you can execute most of the functions by using toolbar buttons.

There are context menus available for several elements in the list box and the dialog boxes provided with the SYSERR functions. To invoke the context menu for an element, click on the element required with the right mouse button or select the element and press SHIFT+F10. The commands available are either cut and paste functions or correspond to the commands in the menus or to command buttons.

Some menu items are used to switch between modes or set a status. The check mark next to a menu item indicates which mode or status is active.

This section covers the following topics:

- List Box

- Fields

- Command Buttons

- File Menu

- Edit Menu

- View Menu

- Options Menu

- Toolbar Buttons

- Status Bar

- Online Help

List Box

The list box appears in the left section of the **SYSERR - Error Messages** window. It contains the short messages of one language for one library. The short texts are preceded by the message number. The messages are sorted by the message number in ascending order.

If a message file contains more than 200 messages, for performance reasons, not all messages are read in one step. When initially opening the **SYSERR - Error Messages** window, up to 200 messages are read from the message file at once, and about 30 of them are displayed in the list box. Scrolling down the list with the vertical scroll bar, the next 200 messages are read and displayed as soon as the scroll bar reaches the bottom of the list box.

Choose the **Read All** menu option, to read all remaining messages in one step as described in *Edit Menu*.

The selected (highlighted) short message is the current message. It is displayed in the right section of the **SYSERR - Error Messages** window. There, you can modify the short and long texts of the current message. See also *Fields*.

Fields

The following fields appear in the right section of the **SYSERR - Error Messages** window:

Field	Explanation
Samp.	Output field that appears above the **Num.** field if a sample message exists for the current language and library. **Samp.** displays the text of the sample message. To create and use a sample message, see **Sample** in *Options Menu*.
Num.	Displays the number of the current message. It corresponds to the selected message in the list box. To display another message or to create a new one, replace the current number by another valid number. The maximum message number for a library and language is 9999. The message number 0000 is not allowed.
Short	Modifiable field displaying the short message text of the current message number. The input of the short message is mandatory. A new message can only be saved if text has been entered in the **Short** field. Therefore, if no text is displayed for the current message, the message number is free and can be assigned to a new message. To extend the default field length, see **Short Message Length 72** in *Options Menu*. To copy sample messages into the **Short** field, see **Sample** in *Options Menu* and **Copy** in *Command Buttons*. To copy text from the **Short** into the **Long** field, choose **Short to Long**.
Long	Modifiable fields displaying the long message text of the current message. **Long** consists of three input areas: **Text** Extended version of the short message text. **Expl.** Further explanation of the message. **Action** The action to be taken to resolve a problem, if relevant. The input in **Long** is optional. To copy text from the **Short** into the **Long** field, choose **Short to Long**.

Command Buttons

The following commands can be executed by using command buttons:

Command	Explanation
Copy	This button is only visible if a sample message exists for the current language and library. **Copy** appears under the toolbar, in the right upper section of the **SYSERR - Error Messages** window. Copies the text of a sample message (see **Sample** in *Options Menu*) into the **Short** field (see *Fields*) of the current message.
Previous / **Add** **Previous** / **Update**	Toggles between **Previous** and **Add**, and **Previous** and **Update** depending on the status of the current message: **Previous** Scrolls from the current message to the previous message if no modification was made. **Add** Adds a new message to the message file. **Update** Saves the current message to the message file after modification. **Note:** You can only save a message if text was entered in the **Short** field (see *Fields*).
Next / **Reset**	Toggles between **Next** and **Reset**, depending on the status of the current message: **Next** Scrolls from the current message to the next message if no modification was made. **Reset** Resets modifications made to the current message and displays the original message.
New	Searches for the next free message number starting from the current message, and opens input fields to create a message for the number found. Free means that this message number is available and has not been assigned to another message of any language. The search direction is downwards by default. However, the default direction can change to upwards if a previous search was performed in an upward direction by using the alternative function **New Message** (see *Edit Menu*). Upwards searches for the next lower message number, downwards searches for the next higher message number from the current message. As an alternative to **New** or **New Message**, you can also create a new message by replacing the number in the **Num.** field.
Short to Long	Copies the text of the **Short** field to the first line of the **Long** field.

File Menu

This section describes the functions available in the **File** menu.

Function	Explanation
New Lib/Lang	Only applies to libraries and languages for which no messages exist. Opens a new library and/or adds a new language. See also *To switch libraries and/or languages*.
Open Lib/Lang	Only applies to libraries and languages for which messages already exist. Opens another library and/or changes the language. See also *To switch libraries and/or languages*.
Open File	This function does not apply for accessing data on mainframe servers. Selects an existing message file from a Natural Err directory (FNAT or FUSER) or from another directory. See also the section *Generating Message and Text Files*.
Print	Invokes the print function. A dialog box prompts you to: - Enter the range of messages. - Mark the **Long texts** printout option if you want to print the long message in addition to the short message. - Specify layout parameters and select the output device: **Printer** or **Source**. The initial assignment is the default printer set by Windows. To display the output in the source work area, use the system command LIST. If required, use the system command SAVE and the Natural object type text to save the contents of the source work area. See also *To print all Natural system messages*.
Exit	Terminates the SYSERR utility.

▶ **To print all Natural system messages**

1. Perform the steps described in *Invoking SYSERR for Natural System Messages*.

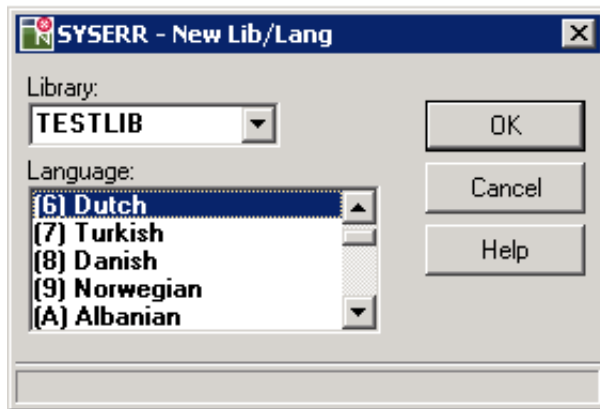2. From the **File** menu, select **Print**.

▶ **To switch libraries and/or languages**

1. From the **File** menu, select **New Lib/Lang** if no messages exist.

   Or:
   From the **File** menu, select **Open Lib/Lang** if messages exist.

   A **SYSERR - New Lib/Lang** or **SYSERR - Open Lib/Lang** dialog box similar to the example below appears:

2. From the **Library** drop-down list box, select a library and a language.

   In the example above, the new language code 6 (Dutch) is selected for the library TESTLIB. TESTLIB already contains messages but no messages for language code 6.

3. Choose **OK** to confirm your selection.

   An empty **SYSERR - Error Messages** window appears for the specified library and language.

   Or:
   If the **Open Lib/Lang** menu option was selected, a list of messages appears that exist for the specified library and language.

Edit Menu

This section describes the functions available in the **Edit** menu.

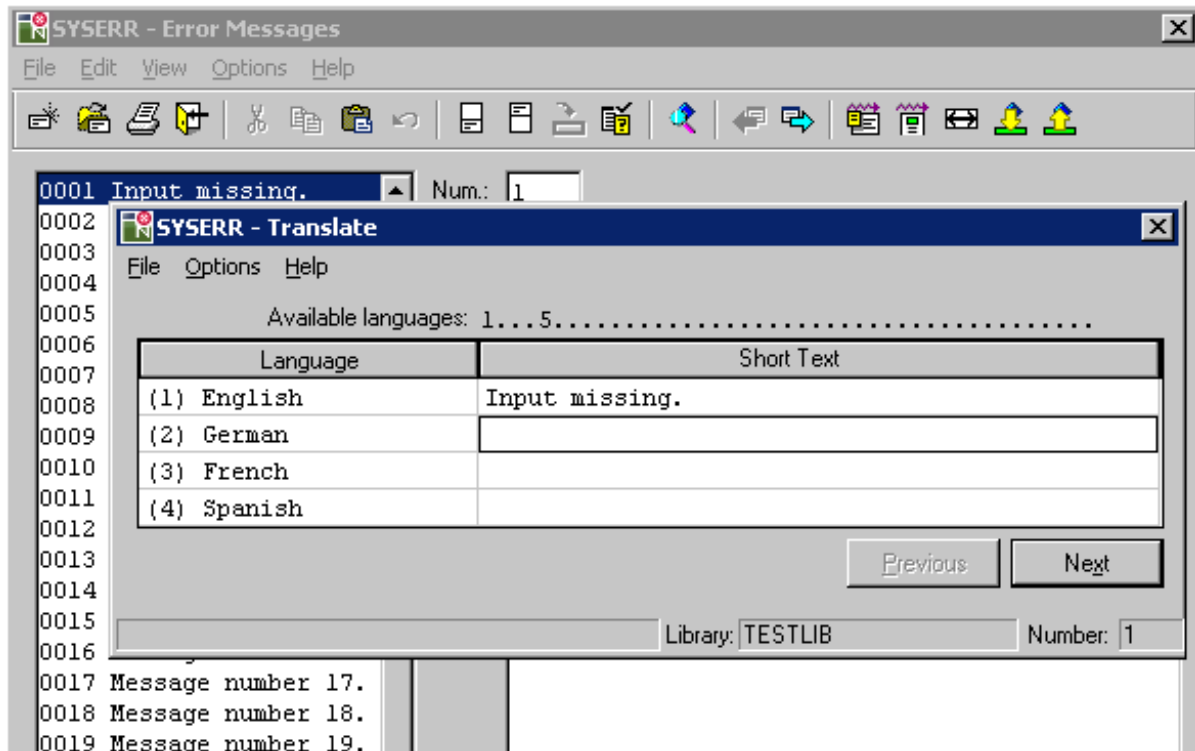| Command	Explanation
Cut	Supported clipboard functions.
Copy	
Paste	
Undo	Standard edit functions.
Delete	
New Message	Searches for the next free message number starting from the current message, and opens input fields to create a message for the number found. Free means that this message number is available and has not been assigned to another message of any language. **Upwards** or **Downwards** specifies the search direction: **Upwards** searches for the next lower message number, **Downwards** searches for the next higher message number from the current message. See also the alternative **New** command button. As an alternative to **New Message** or the **New** command button, you can also create a new message by replacing the number in the **Num.** field.
Delete Selected	Removes all messages selected (highlighted) in the list box. A dialog box prompts you to confirm the action.
Delete All	Removes all messages displayed in the list box. A dialog box prompts you to confirm the action. When all messages of a message file have been deleted, the message file is deleted too.
Read All	Reads all messages from a message file into the list box in one step. This command applies to message files with more than 200 messages. Otherwise, for performance reasons, only 200 messages are read by default when the **SYSERR - Error Messages** window is opened. Additional messages can be displayed by scrolling down the list box to the end or by using the **Read All** menu option.
Translate	Supports the creation of messages for different languages. Applies to short messages only. See *To translate languages* below.

▶ **To translate languages**

1. From the **Edit** menu, choose **Translate**.

   A **SYSERR - Select Languages** dialog box similar to the example below appears:

2. Select one language or more into which you wish to translate the current message and choose **OK**.

3. A **SYSERR - Translate** dialog box similar to the example below appears:

4. The dialog box always lists the current language of the short text (in the example above, `English`) in the first position followed by the new language(s) selected in Step 1.

   The **SYSERR - Translate** dialog box provides the following menu options, command buttons and fields:

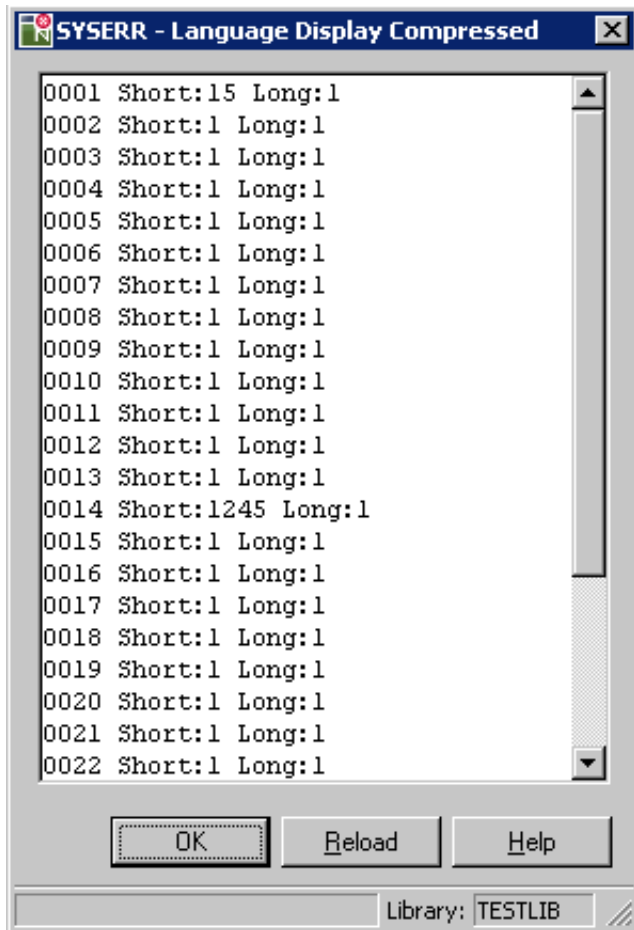|	
File > **Exit**	Closes the **SYSERR - Translate** dialog box and returns to the **SYSERR - Error Messages** window.
Options > **Select Languages**	Invokes a dialog box from which you can select one or more languages to be added to the current message number (unless selected earlier, during Step 1).
Available languages	The language code(s) of the language(s) already available for the current message number.
Language	The code and language of the current language and the new language(s) selected. The current language is always listed in the first position.
Short Text	The text of the short message.
Previous / **Update**	Same as described for **Previous** / **Update** in *Command Buttons*.
Reset / **Next**	Same as described for **Reset** / **Next** in *Command Buttons*.
Help > **SYSERR Help**	Displays help text on SYSERR utility functions.

5. Enter the translation in the **Short Text** field of the relevant language(s).

6. Choose **Update**. The language code(s) of the new language(s) appears under **Available languages**.

View Menu

This section describes the functions available in the **View** menu.

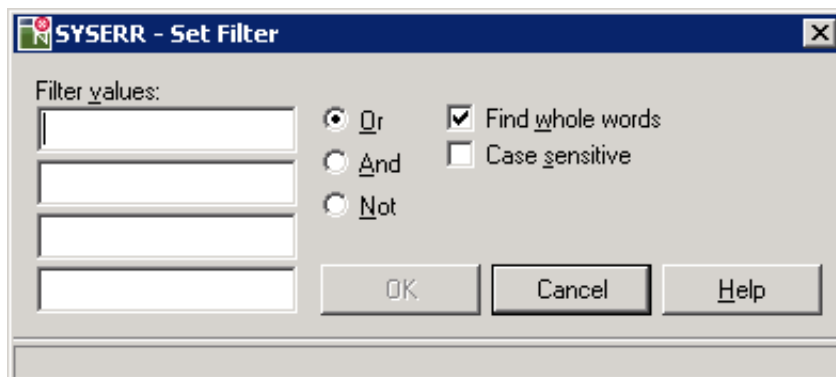| Function	Explanation
Languages Display	Provides an overview of the languages available for one message number. You can choose among the following views:
	Compressed — Displays the language code(s) that exists for a short and long message. For short messages, the language codes are listed next to **Short**, for long messages next to **Long**. See also *Example of Compressed*.
	Extended Short — Displays the language code(s) that exists for a short message next to the message number.
	Extended Long — Displays the language code(s) that exists for a long message next to the message number.
	You can keep the **SYSERR - Language Display** dialog box open while maintaining messages, and use the **Reload** command button any time you want to refresh the overview list.
Filter Display	Applies in connection with the **Set Filter** function.
	If **Set Filter** is enabled, the **Filter Display** function displays the short messages that match the filter criteria defined with the **Set Filter** function.
	If **Filter Display** is enabled, the filter criteria specified with the **Set Filter** function are displayed above the list box.
	To disable the **Filter Display** and list all messages, again choose the **Filter Display** option from the menu.
	See also *Filtering Messages*.
Set Filter	Defines a filter for displaying short messages and shows the filtered messages in the list box. See also *Filtering Messages*.
	Set Filter must be enabled in order to use the **Filter Display** function.

Example of Compressed

```
SYSERR - Language Display Compressed        ✕

0001 Short:15 Long:1                         ▲
0002 Short:1 Long:1
0003 Short:1 Long:1
0004 Short:1 Long:1
0005 Short:1 Long:1
0006 Short:1 Long:1
0007 Short:1 Long:1
0008 Short:1 Long:1
0009 Short:1 Long:1
0010 Short:1 Long:1
0011 Short:1 Long:1
0012 Short:1 Long:1
0013 Short:1 Long:1
0014 Short:1245 Long:1
0015 Short:1 Long:1
0016 Short:1 Long:1
0017 Short:1 Long:1
0018 Short:1 Long:1
0019 Short:1 Long:1
0020 Short:1 Long:1
0021 Short:1 Long:1
0022 Short:1 Long:1                          ▼

     OK          Reload          Help

                         Library: TESTLIB
```

In the example above, the short text (**Short**) for message number 14 exists in English = (1), German (2), Spanish (4), and Italian (5). The long text (**Long**) for message number 14 exists in English (1).

Filtering Messages

▶ **To filter short messages**
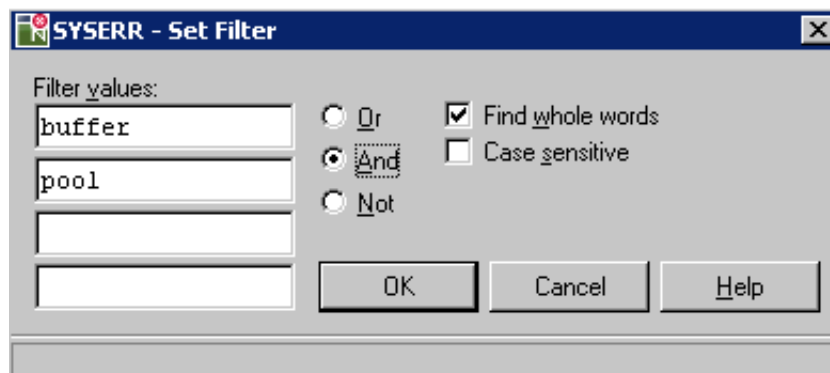
1. From the **View** menu, choose **Set Filter**.

   A **SYSERR - Set Filter** dialog box similar to the example below appears:

```
SYSERR - Set Filter                                          ✕

Filter values:
                        ⦿ Or      ☑ Find whole words
 _____     ○ And     ☐ Case sensitive
 _____     ○ Not
 _____
 _____          OK      Cancel      Help

```

The dialog box provides the following filtering options:

Filter values	There are four fields in which you can enter the character string(s) to be used in the filter.
Or / **And** / **Not**	You can select one of the following Boolean operators: **Or** The filter selects one or more of the character strings entered in **Filter values**. This is the default setting. **And** The filter selects all of the character strings entered in **Filter values**. **Not** The filter selects none of the character strings entered in **Filter values**. The operator is ignored if you only fill one of the **Filter Value** fields.
Find whole words	If marked (default), the filter only allows searching for entire words and not parts of words.
Case sensitive	If marked, the filter only allows searching for letters that exactly match the lower and/or upper case specified.

2. Specify the criteria to be used for the filter:

In the example above, the filter selects all short messages that contain both the words `buffer` and `pool`.

3. Choose **OK**.

   If the search criteria entered match the character strings contained in the short messages, the matches are displayed in the list box and the **Set Filter** and **Filter Display** functions are enabled.

4. To remove a filter and list all messages, choose **Filter Display** to disable the function.

If the **Set Filter** function is enabled, alternatively, you can execute the filter function by choosing **Filter Display**.

Options Menu

This section describes the functions available in the **Options** menu.

Function	Explanation
Sample	Invokes the **SYSERR - Maintain Sample Message** dialog box where you create a sample message to be used as a master for creating new short messages or replace the text of existing short messages. If you enter the string `0000` anywhere in the **SYSERR - Maintain Sample Message** dialog box (combined with text or not), the string `0000` is replaced by the number of the new message or the current message when copying the message. You can define one sample message for each language and library. If you created a sample message, the **Samp.** field appears with the text of the sample message. To copy the text of the sample message into the **Short** field, use the **Copy** command button (see *Edit Menu*). Alternatively, you can enter `.C` in the **Short** field if this field is empty.
Layout	See *Layout*.
Shift Short Left	If enabled, automatically shifts the text of a short message to the left margin when adding a new message or choosing **Update** after modification.
Short Message Length 72	This option does not apply to a remote environment located on a UNIX, OpenVMS or mainframe platform. If enabled, the **Short** field (see *Fields*) is extended to a maximum input of 72 characters. The default field length is 65 characters, which is the maximum input in UNIX, OpenVMS and mainframe environments.
Size	Resizes the dialog box: **Startup** Resizes the dialog box to the size it had at startup. **Full List Box** Resizes the dialog box to display the short message in full length.
Confirm Window	Enables/disables a pop-up window to confirm: ● The new message number. ● That the text of the short message is copied into the first line of the **Long** field if **Short to Long** was chosen. ● That the text of the sample message (if available) is copied into the **Short** field if **Copy** was chosen.

Function	Explanation
Import Text File	This function does not apply to a remote environment located on a mainframe platform. Imports a text file and converts it into a message file. Note that you always need to specify the full path of a file. <table><tr><td>**From (text file)**</td><td>The name of the text file from which the message file will be generated.</td></tr><tr><td>**To (message file)**</td><td>The name of the message file into which the text file will be generated. Default is the full path name of the current library and message file. For user-defined messages, the file name must be N*nn*APMSL.MSG. For Natural system messages, the file name must be N*nn*L*mmmm*.MSG.</td></tr></table> For further information on file formats and generating message and text files, see the relevant section.
Export Message File	This function does not apply to a remote environment located on a mainframe platform. Exports a message file and converts it into a text file. Note that you always need to specify the full path of a file. <table><tr><td>**From (message file)**</td><td>The name of the message file from which the text file will be generated. Default is the full path name of the current library and message file. For user-defined messages, the file name must be N*nn*APMSL.MSG. For Natural system messages, the file name must be N*nn*L*mmmm*.MSG.</td></tr><tr><td>**To (text file)**</td><td>The name of the text file that will be generated.</td></tr></table> For further information on file formats and generating message and text files, see the relevant section.

Layout

The **Layout** option allows specification of valid message ranges to categorize messages. Overlapping of ranges is possible. A new message can only be added if its number is within the range specified in the layout.

The layout definition applies to *all* languages. It is stored in the English message file.

An example layout definition is shown below:

In the fields **From** and **To**, specify the message range. In the **Description** field, enter text that describes the message category.

To insert or delete rows, mark a row and press the INS or DEL key. If the maximum of 18 rows is displayed, you may have to delete or overwrite another row before you can insert a new one.

Toolbar Buttons

The toolbar buttons represent the following menu items or command buttons:

Toolbar Button	Menu Item/Command Button	Menu
	New Lib/Lang	**File**
	Open Lib/Lang	**File**
	Print	**File**
	Exit	**File**
	Cut	**Edit**
	Copy	**Edit**
	Paste	**Edit**
	Undo	**Edit**
	New Message > **Upwards**	**Edit**
	New Message > **Downwards**	**Edit**
	Read All	**Edit**
	Translate	**Edit**
	Filter Display	**View**
	Sample	**Options**
	Layout	**Options**
	Size > **Startup**	**Options**
	Import Text File	**Options**
	Export Message File	**Options**
	Previous	-
	Next	-
	Update	-
	Reset	-

Status Bar

The status bar on the bottom of the **SYSERR - Error Messages** window displays the following:

- The total number of messages that exist in the specified library for the current language, the possible message range 1 to 9999, and the last message number used.

  This information is only displayed when initializing SYSERR, opening another library or when using the **Read All** menu option described under *Edit Menu*.

- Natural system messages or the ID of the current library.

- The code and name of the current language.

Online Help

You can obtain online information on using the SYSERR utility.

▶ To view the overview of the online documentation

● Choose the **Help** menu.

   Or:
Press F1 when no dialog box is open.

   The overview page of the *SYSERR Utility* documentation appears.

▶ To view context-sensitive help

● Choose the **Help** button in a dialog box.

   Or:
Press F1 in a dialog box.

   Help information specific to the task you are performing appears.