

The NSW Object

Entire Screen Builder adds an object named NSW to the core JavaScript language. This object allows to deal with host sessions in the script by offering several methods and properties.

This chapter provides the following general information:

- Syntax Conventions
 - NSW Object Properties
 - NSW Object Methods
 - User Variables
 - Error Codes
 - Display Status
 - Windows Message Box Flags
 - Windows Button Identifiers
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Syntax Conventions

The following syntax conventions are used in the method descriptions:

Convention	Description
monospace font	Items in monospace font are keywords (for example, methods and properties). You must specify these items as indicated in the syntax.
<i>italics</i>	Items in italics are placeholders for information that you must provide. To signal case-sensitivity or embedded blanks, you must enclose the item in double or single quotation marks (" " or ' ').
[]	Square brackets indicate that the enclosed item is optional.
{ }	Curly braces indicate that one of the enclosed items is required.
	Vertical lines are used as separators between alternative parameter values.
...	Ellipsis are used when the item preceding the ellipsis can be repeated.

NSW Object Properties

Property	Description
<code>errno</code>	The <code>errno</code> property contains the error code of the last error that occurred. See <i>Error Codes</i> for a list of all defined values. To reset the <code>errno</code> property, set it to 0.
<code>isConnected</code>	True if there is a session for the client, otherwise false.
<code>maxRows</code>	Maximum number of lines on the character screen. Depends on the host session properties. Currently set to 24.
<code>maxColumns</code>	Maximum number columns per line on the character screen. Depends on the host session properties. Currently set to 80.

NSW Object Methods

The methods of the NSW object can be grouped into the following categories:

- Host Communication Methods
- User Interface Methods
- Processing Methods
- Client-Side Access Methods

See the corresponding sections later in this documentation for detailed descriptions of all methods.

The methods use different ways for returning information to the caller:

- return value, and
- `errno` property.

Some methods do not have a return value. Some methods (for example, `GetUserInput`) also return information in `NSW.errno`.

In case of an error condition, the methods set `NSW.errno` to a method-specific error code. `NSW.errno` is set to `NSW_NO_ERROR(0)` if there was no error.

Runtime errors in the NSW methods return an error code in `NSW.errno` if the error is handled in the method.

The script aborts in the following cases when a statement containing an error is detected:

- syntax error in a core JavaScript statement,
- syntax error in an NSW method,
- runtime error in a core JavaScript statement,
- unhandled runtime error in an NSW method.

User Variables

User variables are persistent data that are stored in the user's profile in the Entire Screen Builder Server. This allows to have user-defined parameters (such as passwords for host logon) which can be used in script files without having to change the script when you have to change the parameter value.

A user variable consists of two parts: variable name and value. The user variable values are encrypted before they are stored in the user profile.

You create and set a user variable with the NSW method `SetUserVariableValue` in a script file. You can use the same method to change the value of an existing user variable.

While working with a viewer, it is also possible to change the values of your defined user variables in a dialog box. See *Defining User Variables* in the *Utilities* documentation.

To retrieve user variables from your user profile, use the NSW method `GetUserVariableValue`.

To delete a user variable, use the NSW method `DeleteUserVariable`.

Error Codes

The `errno` property contains the error code of the last NSW method that was executed. The following table lists all defined values.

Error Code	Keyword	Description
0	NSW_NO_ERROR	Success.
1	NSW_SESSION_OPEN	A session has already been opened.
2	NSW_SESSION_ERROR	An error has occurred in the session (depends on the method).
3	NSW_RANGE_ERROR	Cursor position error.
4	NSW_DATA_SYNTAX_ERROR	File name specification error.
5	NSW_UNKNOWN_ERROR	Unspecified error.
6	NSW_ACCESS_DENIED_ERROR	Access has been denied.
7	NSW_HANDLE_ERROR	The handle is invalid.
8	NSW_FILE_NOTFOUND_ERROR	The file has not been found.

Error Code	Keyword	Description
9	NSW_PATH_NOTFOUND_ERROR	The path has not been found.
10	NSW_INVALID_NAME_ERROR	Invalid syntax for volume, path or file name.
11	NSW_DIR_NOTEMPTY_ERROR	The directory is not empty.
12	NSW_SHARING_VIOLATION_ERROR	The process cannot access the file because it is being used by another process.
13	NSW_DISK_FULL_ERROR	The disk is full.
14	NSW_NOT_READY_ERROR	The device is not ready.
15	NSW_ALREADY_EXISTS_ERROR	The file already exists.
16	NSW_WRITE_PROTECTED_ERROR	The medium is write-protected.
17	NSW_NEGATIVE_SEEK_ERROR	An attempt was made to move the file pointer before the beginning of the file.
18	NSW_TIMEOUT_ERROR	A timeout occurred.
19	NSW_BAD_DLL_ERROR	No valid DLL.
20	NSW_DLL_NOT_FOUND_ERROR	The DLL has not been found.
21	NSW_FUNC_NOT_FOUND_ERROR	The function has not been found in the DLL.
22	NSW_USERVALUE_NOTFOUND_ERROR	The user value has not been found.
23	NSW_USERVALUE_NOTSETTABLE_ERROR	The user value cannot be set.
24	NSW_NO_SESSION_SPECIFIED	A session has not been specified.
25	PROC_ERROR_NO_OPEN_SESSION	A session has not been opened.
26	PROC_USER_VALUE_NOT_GETTABLE	Access to this user variable is not allowed.
27	PROC_USER_ACTION_NOT_PERMITTED	The requested action is not allowed for this user variable.
28	PROC_USER_HAS_NO_DEFINED_SESSION	The current user has no defined default session.
29	PROC_USER_ACTION_CANCELED	The user has chosen the Cancel button in the Logon dialog box.
30	PROC_ACTION_NOT_SUPPORTED	This action is not supported by the current viewer.
31	PROC_ARGUMENT_NOT_FOUND	The user argument has not been defined.
32	PROC_ERROR_NO_FILE_RETURNED	The user has chosen the Cancel button in the Browse File dialog box.

Display Status

Display Status	Keyword	Description
1	DISPLAY_ON	The screen is updated.
2	DISPLAY_OFF	The screen is not updated.

Windows Message Box Flags

Flag	Meaning
MB_OK	The message box contains one push button: OK . This is the default.
MB_OKCANCEL	The message box contains two push buttons: OK and Cancel .
MB_RETRYCANCEL	The message box contains two push buttons: Retry and Cancel .
MB_YESNO	The message box contains two push buttons: Yes and No .
MB_YESNOCANCEL	The message box contains three push buttons: Yes , No and Cancel .

Windows Button Identifiers

Identifier	Meaning	Value
IDCANCEL	The Cancel button was selected.	2
IDNO	The No button was selected.	7
IDOK	The OK button was selected.	1
IDRETRY	The Retry button was selected.	4
IDYES	The Yes button was selected.	6