

Scripting, User Exits and APIs

Entire Screen Builder offers different ways of linking your own processing logic to the system and to simplify or automate repetitive tasks for the user:

- Scripting
 - Server-side User Exits
 - Client-side User Exits (APIs)
 - Natural UNIX User Exits
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Scripting

The Entire Screen Builder scripting language, which is based on the JavaScript language, allows to interact with host sessions (in a similar way in which the user interacts with sessions). It provides methods for detecting the screen contents and for sending data and terminal emulation keys to a host session. The script can be started by the user in a viewer. It is executed on the Entire Screen Builder Server. In terms of functionality, scripting can be compared with the server-side user exits. It provides, however, a higher, more user-oriented level.

The scripting language is available for all viewers (GUI viewers and Terminal Viewer). To write a script file for Entire Screen Builder, you should be familiar with the JavaScript language.

For detailed information, see the *Script Files* documentation.

Server-side User Exits

The server-side user exit is a dynamic link library (DLL) with user-written functions. It is called when a new screen arrives from the host and before a screen is sent back to the host. This allows to influence the way a screen is displayed by the viewer and to process and modify the data entered by the user before they are sent to the host application.

The server-side user exit is only available for the GUI viewers. To write such a user exit, you should be familiar with C++ programming and have a basic understanding of terminal emulation.

For detailed information, see *Server Functions* in the *User Exits* documentation.

Client-side User Exits (APIs)

The client-side user exit is a COM interface to the Web Viewer and the Terminal Viewer. These two viewers are implemented as Microsoft ActiveX controls. The API properties, methods and events allow you to integrate the viewers into your Windows application and control the behavior of the ActiveX control. You can use the API from a wide variety of languages: C++, JavaScript, Visual Basic, etc.

These client-side user exits are only available for the Web Viewer and Terminal Viewer, and they are not identical. To write such a user exit, you should be familiar with the use of Microsoft ActiveX control and the language you plan to use.

For detailed information, see the following topics in the *User Exits* documentation:

- *Web Viewer Client Functions (API)*
- *Terminal Viewer Client Functions (API)*
- *Common Viewer Functions (API)*

Natural UNIX User Exits

The Natural UNIX user exits are external libraries built on the UNIX machine to be called by the different Entire Screen Builder components running on the UNIX machine. They are only called by the Entire Screen Builder components in Natural UNIX, this means: the Natural UNIX user exits are never called by the Entire Screen Builder Server.

The Natural UNIX user exits are available for all types of viewers (GUI viewers and Terminal Viewer).

For detailed information, see *Natural UNIX User Exits* in the *User Exits* documentation.