

# Overview of Features

The main features of Entire Screen Builder are:

## **Zero mainframe footprint**

The transformation rules and dialogs are defined and created by the developer without programming. This means, your legacy applications will continue to work in the same way, because no changes and no software are required on the server side.

## **Direct integration in a Web environment**

The legacy applications are automatically integrated in an Intranet environment, without any effort. HTTP tunneling allows to use the viewers in the Internet. Tunneling is supported for the Microsoft Internet Information Server and the Apache Web Server. In combination with tunneling, the Web Viewer also supports the SSL (Secure Socket Layer) protocol.

## **Different types of output**

Using the same transformation rules, the output can be shown in different GUI viewers: Web Viewer and Windows Viewer.

The Terminal Viewer offers traditional character-based terminal emulation with zero installation and administration on the client workstation.

The XML Version transforms the host screens to HTML which is sent to the browser on the client workstation. A standard internet browser is used to access the host screens.

## **Zero client installation and administration**

The Web Viewer and the Terminal Viewer are automatically downloaded the first time they are used on a client machine or when the viewer version was updated.

## **Platform- and application-independent**

Between 80 to 100 percent of the transformation rules and dialogs created for Natural applications running in a UNIX or OpenVMS system can be used for the same application running in a mainframe system (and vice versa). Entire Screen Builder handles and tolerates the most common platform differences. Fields are shifted one position to the left when going from mainframes to UNIX or OpenVMS. When the defined position of a field cannot be found, the following detection logic is used for the different platforms:

- For a mainframe session (3270 or BS2000), the server tries to find the field in the next position (+1).
- For a Natural UNIX or Natural OpenVMS session, the server tries to find the field in the previous position (-1).

**Build-in multi-platform host communication**

This is responsible for establishing the connection with the server side. For mainframe platforms, communication is based on the terminal protocol. For UNIX and OpenVMS platforms, it is based on TCP/IP and a direct communication protocol with Natural.

**Block mode emulation**

For UNIX and OpenVMS servers, and due to the client/server architecture of the product, Entire Screen Builder provides a block mode emulation to work with Natural applications. This feature can be very useful when using slow networks, for example TCP/IP under X.25.

**Script language**

A script language based on the JavaScript language allows to interact with the terminal session and to automate or simplify repetitive tasks for the users.

**Browser-based administration**

Software AG's System Management Hub, which is a browser-based online tool, is used to configure and administrate the Entire Screen Builder Server.

**User and group profiles**

The Entire Screen Builder Server can be accessed by anonymous or named users. It is possible to create a general user and group profile for all anonymous users. Named users can have their own profiles (for example, a specific logon script).

**Administration and Monitoring**

Statistics of the communication activity, the number of connections, connection types, times, buffer sizes etc. can be displayed in the Entire Screen Builder Server Management tool, which is a Microsoft Management Console snap-in. It is also possible to administrate the Entire Screen Builder Server.

**User exits**

There are several sets of user exit functions: a set for the server, a set for the Web Viewer, a set for the Terminal Viewer and a set for the Natural UNIX components of Entire Screen Builder.

**Data compression between Natural UNIX and Natural OpenVMS applications and the Entire Screen Builder Server**

The buffers sent from/to the UNIX and OpenVMS side can be compressed.

**Data compression between the Entire Screen Builder Server and the Entire Screen Builder viewers**

The buffers sent from/to the Entire Screen Builder Server can be compressed.

**Data transfer**

Data transfer with host applications written in Natural or SAP R/2 allows to upload data from the client to the host application and to download data from the host application to the client. Several PC data formats are directly supported.