

Eden Web Client Administrators Guide

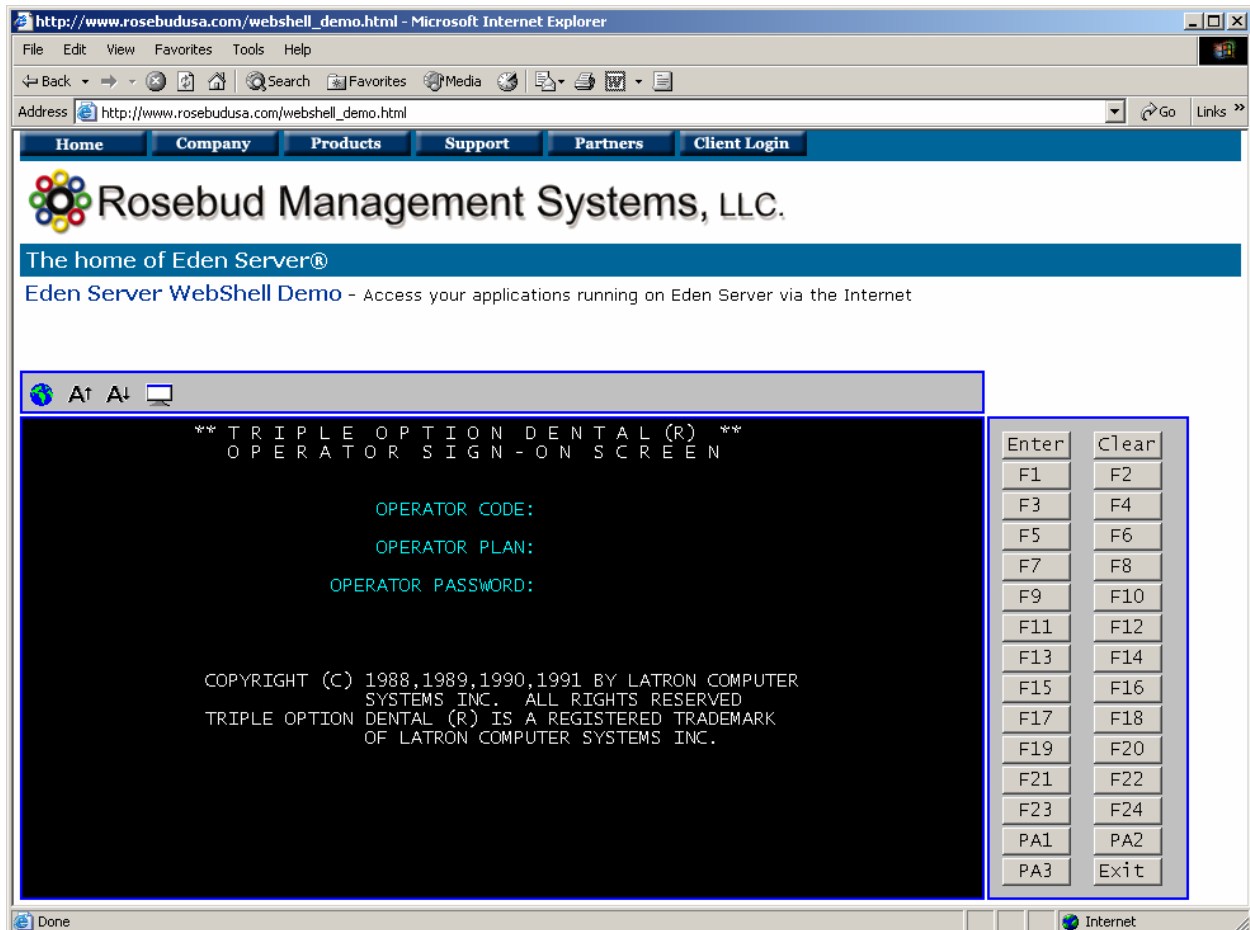
Version 4.0 Level U

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Rosebud Management Systems

Eden Web Client Overview

The Eden Web Client is a browser based version of the standard Eden Client interface. The Eden Web Client is implemented using Cascading Style Sheets (CSS) and inline java scripts and fully emulates the standard Eden Client interface, in both character (3270) and graphical (GUI) screen modes. A view of a typical Internet Explorer window displaying the Eden Web Client is shown below.



The image above shows the Eden Web Client running in standard 3270 character emulation mode. Note the toolbar above the client area and the 3270 Function key bar to the right of the client area.

In addition to providing CICS terminal emulation via the browser, the Eden Web Client may also be implemented via links from existing web pages so that the Eden Client area of the page blends seamlessly into the existing page. This method of linking to Eden enables making CICS transactions available for a variety of uses to both internal and external (public) users. For more information on the various methods of using the Eden Web Client, see the WEBSHELL Configuration section of this guide.

Because the Eden Web Client produces web pages that consist of only standard html and in-line java script, there is never any software installed or required for web users to access Eden.

The Eden Web Client has been tested and found to work well with all major web browsers, including Internet Explorer, Netscape and Firefox. There are no minimum version requirements for any of these browsers. Note that there are no operating system requirements for the client workstation, so web users running Linux, Unix or any other operating system may access the Eden Web Client.

The web server side of the Eden Web Client is implemented as a CGI (Common Gateway Interface) program that runs on the web server. This CGI is a Windows .EXE program, the base version of which is named WEBSHELL.EXE.

The Webshell program has been tested and found to work well with the Microsoft IIS and Apache web server software for Windows. Note that as Webshell.exe is a Microsoft Windows executable file, it is required that any web server used must run on the Microsoft Windows operating system. Linux, Unix and Apple operating systems are not supported.

Finally, the Eden Web Client software includes a desktop tool which is designed to simplify the creation, configuration and management of all aspects of Eden Web Client and the applications they can access. This tool is called WManager and is installed as part of the Eden Web Client installation process.

Installation

Installing the Eden Web Client is done by using the supplied EdenWebSetup.exe file. This file is installed during Eden Server installation, and is located in the \EDENSERVER\CLIENTS directory. If you purchased a retail version of Eden Server, the EdenWebSetup program may also be found on your Eden Server CD.

During installation, the only selectable item that must be chosen is the install-to directory. Because of the nature of the Web Client software and its interaction with your web server, it is very important the proper directory be selected. The chosen directory should be the 'cgi-bin' directory for the web site where Eden Web Client is to be made available. Typically, this directory is a subdirectory from the 'htdocs' directory. For example "c:\websites\www.mywebsite.com\htdocs\cgi-bin".

If you are unsure of where to install the Eden Web Client, please consult with your web server administrator to determine the proper location.

Also note that proper installation requires that you are logged on as a fully privileged system Administrator.

Installation is fully automated, requiring only that the displayed prompts be followed, however some basic information is required prior to starting.

Before starting the installation, be sure you know the following items:

- 1) The location(s) where the Eden Web Client is to be installed. Note that if your Windows server runs more than one web site, you may want and or need to install the Eden Web Client in more than one location. Note that you must install the Eden Web Client once for each web site being serviced, unless, the varying web sites all use the same physical directory for their cgi-bin directories.
- 2) The serial number and license key for the required Micro Focus runtime support. Note, if you do not have a license for Micro Focus runtime support, you may allow the setup process to install a free 30-day demo license.

When ready, double click the EdenWebSetup.exe icon, or start the program from a DOS prompt.

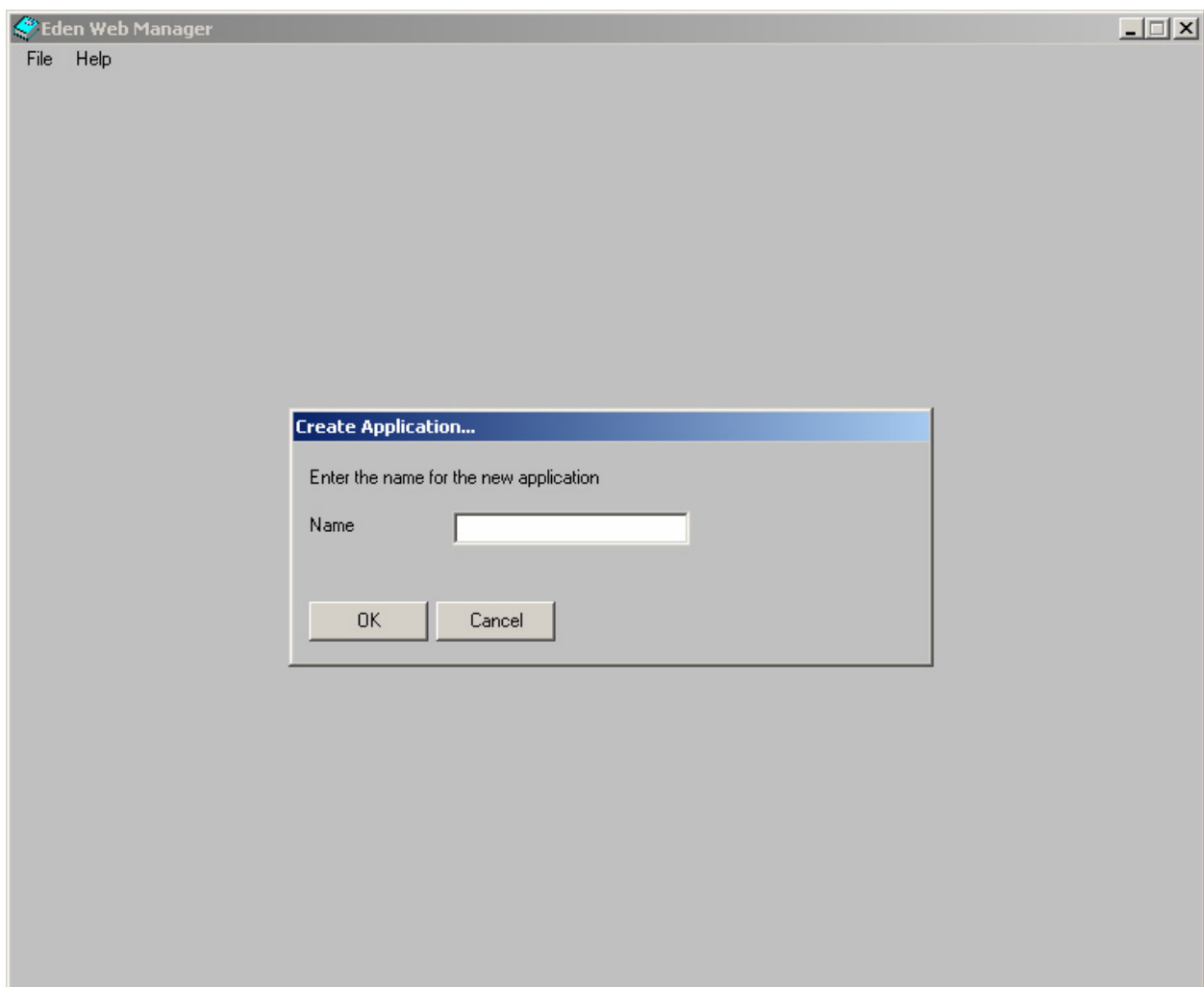
Follow the prompts provided to complete the installation. Once installed, you will need to use the supplied configuration tool to build custom web applications, as well as to define security options for them. Configuration is described in the next section, "Webshell Configuration".

Configuration

The majority of configuration work is performed using the supplied WManager.exe desktop utility. To start creating and configuring new Eden Web Client based applications, double click the WManager icon which the install procedure placed on your desktop. Note, if you have installed multiple copies of the Eden Web Client, you will see multiple WManager icons on your desktop. Be sure to click the icon corresponding to the web site you want to work with.

Creating New Applications

Once started, use the File / New menu option to display the 'Create Application' dialog, as show below.



The 'Create Application' dialog requires only that an application name be entered. Note the name may be any valid file name, but may not include embedded spaces. Note the name entered will also become part of the URL used to access the application. For example, if an application name of MYAPP is created, the URL to access this might resemble something like: <http://www.mysite.com/cgi-bin/MYAPP.exe>

To view a sample of the Eden Web Client, running on a demo server at RMS, LLC, follow the link below.

http://www.rosebudusa.com/webshell_demo.html

Note the above sample URL points to the RMS, LLC demo server and displays the Eden Web Client using a sample page template that references a CGI named WEBSHELL.EXE.

After entering the desired name, click the OK button, which will create the named .exe file as well as a base set of configuration values. Clicking OK will also automatically begin an Edit session for the new applications settings.

Editing Application Settings

Most application settings are made using the WManager utility, however, some settings including web server password protection of the application are made outside the WManager utility; i.e., by making entries in the web servers "htaccess" file.

The items that are configurable for each application are:

- CGI name
- CGI description
- Eden Server IP address and port
- Default Eden Server CICS region to attach to
- Default display mode
- Screen Colors
- Client area border size and color
- Status bar display
- Function key button toolbar location
- Toolbar buttons
- Security settings
- SSL enablement

These settings are maintained using each of the four WManager tabs, as shown on the following pages.

Application Identification Tab

The screenshot shows a window titled "Eden Web Manager - WEBSHELL Settings" with a menu bar containing "File" and "Help". Below the menu bar are four tabs: "Identification", "Presentation", "Options", and "Security". The "Identification" tab is selected and contains the following fields:

- Executable File:** A text field containing "CGI" and a "Default" button to its right.
- Description:** A text field containing "Generic Webshell access".
- Eden Server Location:** Two text fields: "Eden IP" containing "65.165.23.229" and "Eden Port" containing "31040".
- Region Name:** A text field containing "Eden Region".

At the bottom right of the dialog box are "Save" and "Cancel" buttons.

The Identification tab, shown above, allows the following items to be configured:

The **Executable File** field is a display only field which shows the fully qualified drive path and file name of the actual CGI program.

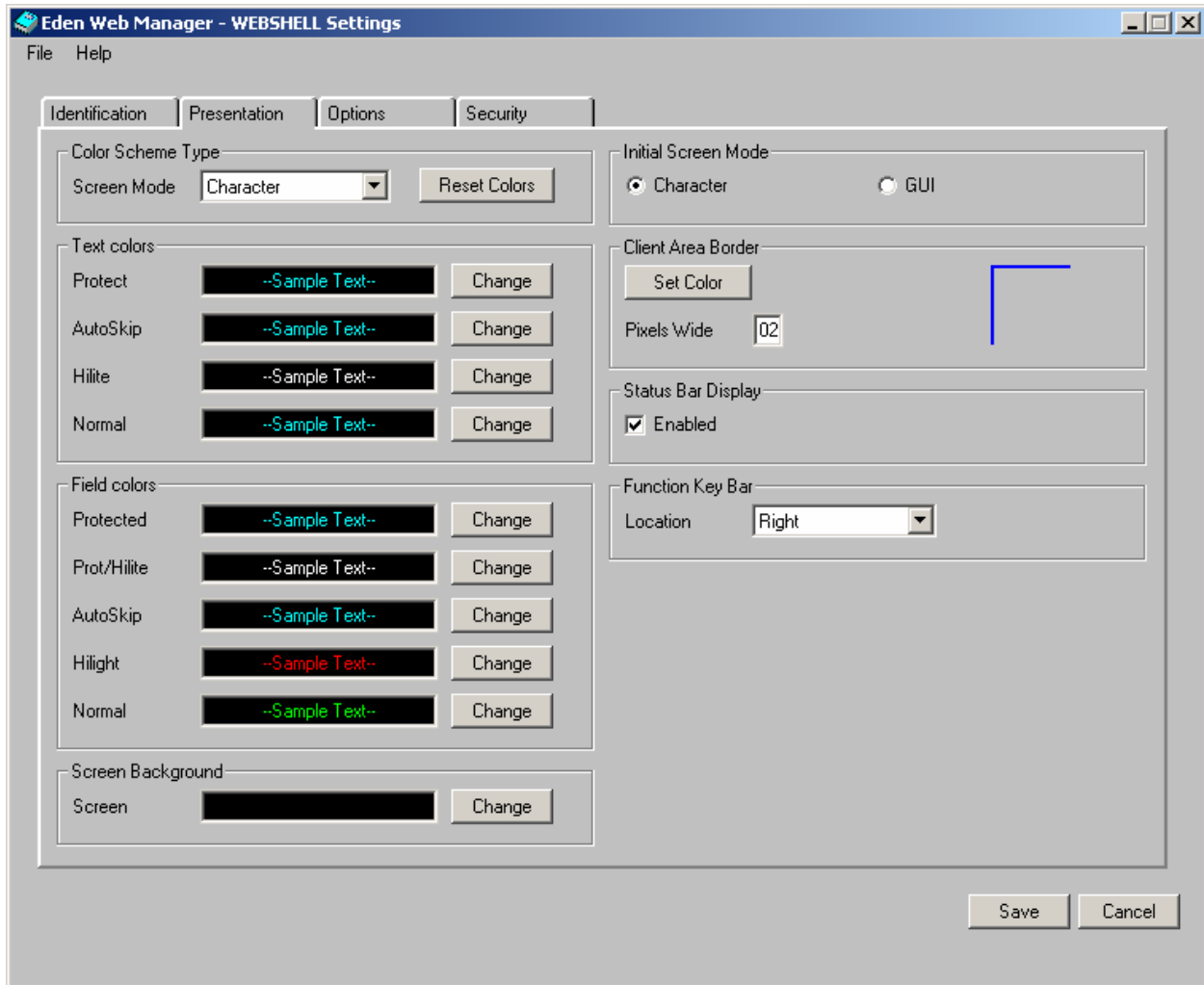
The **Description** field allows for the entry of a brief description of the application. Note this description is used only within the WManager utility.

The **Eden Server IP** and **Port** fields are used to define the location of the Eden Server machine which is to service this application.

The **Eden Region** field is used to define a default CICS region that should be attached to when the application is first invoked. Note that if this field is valued, the application will automatically attach to the named region if the region is active on the server identified in the Eden Server Location fields above. If this field is left blank, the application will display a standard Eden Client 'Select a Region' dialog, allowing the

application to attach to any available region on the server. Note, however, that the 'Region Select Button' may have be affected by settings on the Options Tab

Application Presentation Tab



The Presentation tab controls are used to define the characteristics of the image produced and displayed by the web browser.

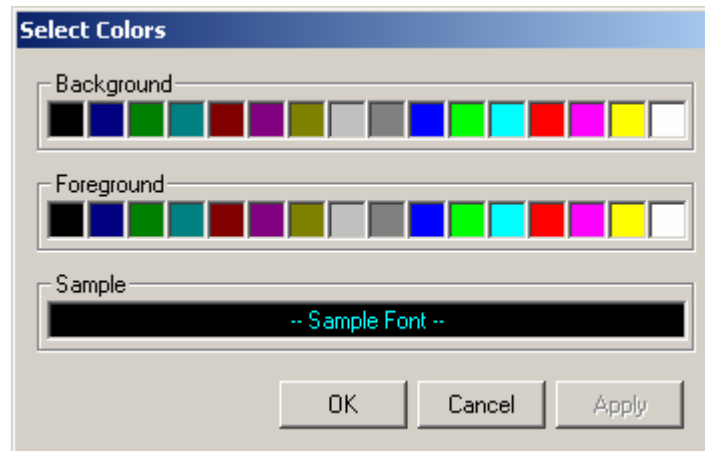
The controls on the left hand side of this tab define the color scheme for both a 3270 mode character display, as well as a graphical GUI display.

The **Color Scheme Type** controls allow for the selection of the screen mode and optionally to reset the defined colors to their default settings. To edit a color scheme, first select the screen mode from the drop down list. Selecting a screen mode will automatically cause the color selection fields below to be re-painted in the appropriate colors. To reset colors for the selected scheme to their default values, click the '**Reset Colors**' button.

The Eden Web Client, like all Eden Client types, displays fields and text in colors that are based on the BMS attribute of the field or text in question. To change a color value, simply click the 'Change' button for the item you wish to change. The Change button

will cause the Select Colors dialog to display, where both a foreground and background color may be selected. Note, not all items allow for the selection of a foreground color. A sample Color Selection dialog is shown below.

The Select Colors dialog will allow both a background and foreground color to be selected for field and text items. Note however, that the foreground color settings will not be available for every item, for example when setting the Screen Background color, only the background choices will be displayed.



The **Initial Screen Mode** controls allow the application to be configured so that it will initially display in either the default 3270 character mode, or in the advanced GUI mode. Note that if so configured, the user may change the screen mode by clicking the toolbar Display Mode change button. See the Options tab for more information on Toolbar buttons.

The **Client Area Border** controls allow for the setting of a border around all display items produced by the application. Note the areas which will be bordered are the actual client area (i.e., the BMS map display area), the toolbar button area, and the Function Key push-button area. If a border is desired, select any pixel width other than zero. Setting the border width to zero will cause the borders to be omitted. To choose a new color for the borders, click the **Set Color** button. Using the Set Color button will cause a Select Colors dialog to be displayed. Note the right hand side of the Client Border Area will display a sample of how the border will appear when drawn by the application.

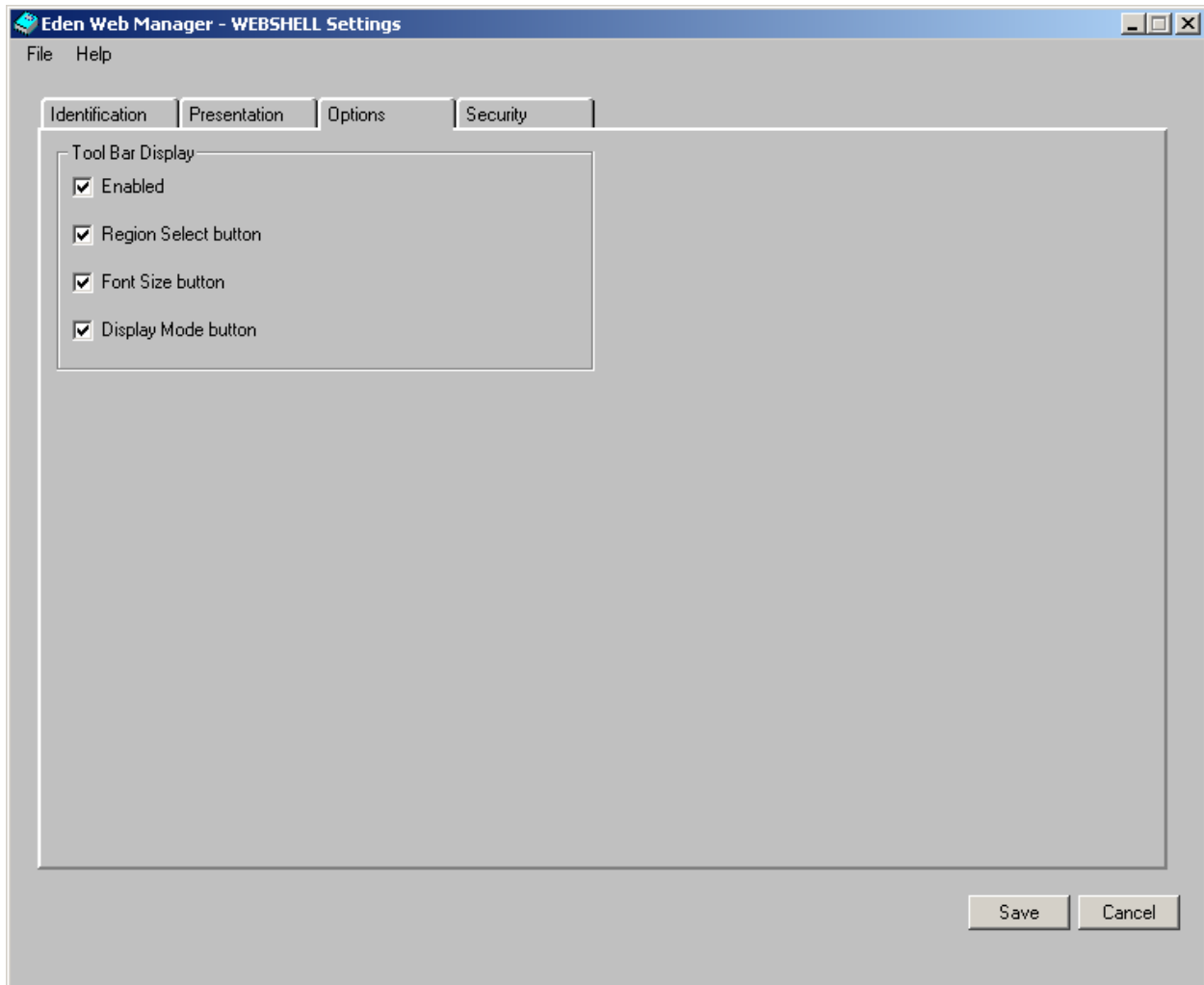
The **Status Bar Display** check box controls whether or not the image displayed in the browser includes a status bar at the bottom of the client display area. If this feature is enabled, the display will include a status bar which will show the following items: 'Running' or response time, the region to which the client is attached and the name of the BMS map currently being displayed.

The **Function Key Bar** drop down list allows the location of the group of 3270 function keys to be changed. Note, because the Eden Web Client uses a web browser to handle all user interaction, it is impossible to capture all function keys that a user may hit, or that the underlying CICS transaction requires. Therefore, the Eden Web Client

will always create a series of push buttons which may be used to generate any 3270 AID key. The 3270 AID keys represented in the Function Key Bar, are PF1 through PF24, PA1 through PA3, Enter and Clear. Note one additional button, the 'Exit' button is also displayed. The Exit button will cause a logoff from Eden Server. Note, the Function Key Bar will not be displayed when the underlying CICS transaction outputs a display that contains at least one push button. In such a case, the Eden Web Client assumes that the application has provided buttons sufficient for any and all navigation within the transaction.

Application Options Tab

The Options tab currently allows the toolbar displayed at the top of the Eden Web Client display to be enabled or disabled as well as configured to allow only certain features, as shown below.



The Tool Bar Display controls allow for the following configurations:

The **Enabled** check box, when selected, causes the Eden Web Client to include a tool bar area directly above the main Eden Web Client display area. Note that when this feature is activated, the physical location of the Eden Web Client area will drop down approximately 35 pixels below where it would normally display. Also be aware that regardless of the setting made here, the Eden Web Client will only display a tool bar after the user has identified themselves via a CSSN transaction. Note if the Enabled check box is not selected, all remaining controls in this area will be disabled.

The **Region Select button** check box, when selected, will cause the Eden Web Client

to display the familiar 'Globe' button which may be used to display the 'Select a Region' dialog box.

The **Font Size button** check box, when selected will cause the Eden Web Client to display the font size buttons in the tool bar. Note, due to the fact that the Eden Web Client is implemented using CSS, each item on an Eden Web Client page is positioned with explicit 'x and y' pixel locations. As such, use of font-sizing techniques directly from the browser will likely cause the display to be garbled. If it is desirable to allow user to change their display font size, be sure to activate this feature.

The **Display Mode** button check box, when selected, will cause the Eden Web Client to include the screen mode GUI-to-3270 swap button. This button allows the user to dynamically switch the displayed BMS map from standard 3270 character mode to the Eden Client GUI mode. Note that some transactions, such as the supplied Eden JOBS system, force their screen mode to GUI. It is also possible that user developed transactions may force their screen modes to GUI, or character modes. When the Eden Web Client is running a transaction with a forced GUI or 3270 character mode setting, the Display Mode button will not appear, until a non-forced transaction is run.

Application Security Tab

The Security tab provides an additional set of security and access controls which are in addition to all other security controls.

The screenshot shows a window titled "Eden Web Manager - WEBSHELL Settings" with a menu bar containing "File" and "Help". Below the menu bar are four tabs: "Identification", "Presentation", "Options", and "Security". The "Security" tab is selected. The main area contains four sections, each with a title and a set of controls:

- Eden Server Sign-on:** A checkbox labeled "Required" which is currently unchecked.
- Fixed Transaction ID:** A label "TransID" followed by a text input field containing the value "TODP".
- URL Limiter:** A label "Allowed URL" followed by an empty text input field.
- Web Server SSL:** A checkbox labeled "Active" which is currently unchecked.

At the bottom right of the dialog box are two buttons: "Save" and "Cancel".

The **Eden Server Sign-on** check box controls, over and above any EManager defined settings, whether the user should be presented with a CSSN sign-on dialog when their browser first attaches to an Eden CICS region. Note, this control will override EManager only when it is selected. Leaving this check box un-selected will not suppress a forced CSSN dialog if EManager has previously been defined to require it.

The **Fixed Transaction ID** field may be used to limit the CGI application to running only one transaction ID. Note, if the Eden Web Client is to be deployed in such a way as to allow public access it is highly recommended this feature be activated.

The **URL Limiter** field can be used to force the CGI application to always verify the URL of the web server that invoked the CGI. Note this process is also in addition to the Eden Server side verification of the web server IP address.

The **Web Server SSL** check box must be used to tell the CGI application whether or not it will be running under a Secure Sockets Layer. Note, this check box must be selected if the web server address is 'https'. Improperly setting this control will cause either http 404 (not found) errors, or error messages from the Eden Web Client indicating initialization failure.