



AssuredSAN 3000 Series Interface Customization Guide

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About this guide

This guide introduces the Customization Tool Kit and describes the process for customizing elements of the web-based interface (WBI) and command-line interface (CLI) for AssuredSAN Series3000 Series storage systems.

Logos and application names may change without notice as newer versions of the AssuredSAN storage system become available.

Intended audience

This guide is intended for

- Storage system administrators.
- Configuration managers.
- Web GUI developers.

Prerequisites

Prerequisites for using this product include knowledge of:

- Perl installation and setup.
- Network administration.
- Storage system configuration.
- Image editing and creation.

Related documentation

For additional information about Perl installations and required modules see: <http://www.perl.org/>

For information about	See
Enhancements, known issues, and late-breaking information not included in product documentation	Release Notes
Overview of product shipkit contents and setup tasks	Getting Started*
Regulatory compliance and safety and disposal information	AssuredSAN Product Regulatory Compliance and Safety*
Installing and using optional host-based software components (CAPI Proxy, MPIO DSM, VDS Provider, VSS Provider, SES Driver)	AssuredSAN Installing Optional Software for Microsoft Windows® Server
Recommendations for using optional data-protection features (AssuredSnap, AssuredCopy, AssuredRemote)	AssuredSAN 3000 Series Using Data Protection Software
Using a rackmount bracket kit to install an enclosure into a rack	AssuredSAN Rackmount Bracket Kit Installation* <i>or</i> AssuredSAN 2-Post Rackmount Bracket Kit Installation*
Product hardware setup and related troubleshooting	AssuredSAN 3000 Series Setup Guide
Obtaining and installing a license to use licensed features	AssuredSAN 3000 Series Obtaining and Installing a License Certificate File
Using the web interface to configure and manage the product	AssuredSAN 3000 Series RAIDar User Guide
Using the command-line interface (CLI) to configure and manage the product	AssuredSAN 3000 Series CLI Reference Guide
Event codes and recommended actions	AssuredSAN Event Descriptions Reference Guide
Identifying and installing or replacing field-replaceable units (FRUs)	AssuredSAN 3000 Series FRU Installation and Replacement Guide

Document conventions and symbols

Table 1 Document conventions

Convention	Element
Navy blue text	Cross-reference links and e-mail addresses
Navy blue text	Web site addresses
Bold font	<ul style="list-style-type: none"> Key names Text typed into a GUI element, such as into a box GUI elements that are clicked or selected, such as menu and list items, buttons, and check boxes
<i>Italics font</i>	Text emphasis
Monospace font	<ul style="list-style-type: none"> File and directory names System output Code Text typed at the command-line
<i>Monospace, italic font</i>	<ul style="list-style-type: none"> Code variables Command-line variables
Monospace, bold font	Emphasis of file and directory names, system output, code, and text typed at the command line

△ **CAUTION:** Indicates that failure to follow directions could result in damage to equipment or data.

📄 **IMPORTANT:** Provides clarifying information or specific instructions.

📄 **NOTE:** Provides additional information.

1 Using the Customization Tool Kit

You can use the Customization Tool Kit (CTK) to alter the appearance of the CLI, and WBI screens and panels for product, corporate, or marketing requirements.

The CTK is used to:

- Replace WBI files that have been customized using a text or image editor.
- Review changes made to the WBI.

The CTK is a set of Perl-based scripts that places WBI editable files in a “Sandbox” directory for customization, places all necessary files (edited, unedited, and non-editable) in directory for a testing, and packages all necessary files for return to Dot Hill Systems for validation and deployment.

The CTK is not an editor. Third party editing tools are required to make changes to text and image files; such tools are not included in the CTK installation. Installation and usage of those third party tools falls outside the scope of this document.

Preparing the Perl environment

For the CTK to function properly, you must:

- Install the CTK on the same system as the Perl executable.
- Have permission to “run” the Perl executable.
- Map the `.pl` extension to the Perl executable (Windows).
or
- Install the CTK in `/usr/bin` (Linux or other Unix system).

Required installations

You must install:

- Perl 5.05
- `Win32::console::ANSI.pm` (for Windows systems only)
- `Image::Size.pm`
- `File::Copy::Recursive.pm`

Procedures for installing Perl and associated packages fall outside the scope of this document as installation varies from platform to platform and enterprise to enterprise.

Tools for customizing files

Two general types of files may be customized in the WBI: image and text. Image files are further subdivided by functionality such as logo, background, icon, and so forth. Choose editing tools that adhere to the following criteria.

Image editing requirements:

- Create, edit, and save Portable Network Graphics (.png) files with transparency intact
- Create, edit, and save Graphics Interchange Format (.gif) files with transparency intact
- Create, edit, and save Favicons

Text editing requirements:

- Save files leaving file type extensions in place
- Save files leaving line breaks in place
- Save files without transforming spaces (strip, trim, convert to tabs, and so forth)
- Save files without adding meta-tags (word processing applications are not recommended)
- Check for well-formedness (for mark-up files such as HTML)

Use a web browser to preview the customization.

Web browser requirements:

- Mozilla Firefox 3 or later, or Microsoft Internet Explorer 7 or later

Installing the Customization Tool Kit

The CTK installation file, `CTK.zip`, contains the scripts and directories needed to customize the WBI.

To install:

1. Specify a location on the same system as the Perl executable and extract `CTK.zip` to that location. This creates the `ctk` directory.
2. At the `ctk` directory, open a command prompt.
3. Run `ctk.pl -p` to finish installation. The following directory structure is created:

```
ctk
  lib
  Sandbox
  Source
  Staging
```

The `lib` directory contains Perl scripts related to CTK functionality.

The `Sandbox` directory contains all customizable files. Only edit files in this directory.

The `Source` directory contains the baseline WBI interface files.


The `Staging` directory will contain the customized WBI after running the customize option. The customized mock-up created in the `Staging` directory is for inspection and limited testing, and is neither deployed nor functional.

Understanding automatic changes to the user interfaces

Several changes occur in both the WBI and CLI simply by installing a customization file. These changes hide references to “Dot Hill” or “R/Evolution” and protect the OEM nature of Dot Hill’s relationship with its partner.

- | | |
|---------------------|---|
| WBI and CLI changes | <ul style="list-style-type: none">• Enclosure model is hidden• Enclosure vendor is hidden• SCSI Product ID is hidden• SCSI Vendor ID is hidden |
| CLI only changes | <ul style="list-style-type: none">• Parameter added to the <code>show system</code> command displays SCSI Vendor ID and SCSI Product ID for auditing or confirmation purposes. This command is restricted to customized systems and does not appear in other documentation. |

These changes affect the system only after the customization file created in this process has been installed.

 **IMPORTANT:** References to Dot Hill still appear in the End User License Agreement. See [Controlling temporary licensing](#) on page 11 for more information.

Determining what level of customization is appropriate

Because so many aspects of the WBI can be customized, determining what level of customization is required in advance can streamline the process.


Considering a tiered approach

A tiered approach allows you to separate the changes into easily managed, progressively more involved tasks as time or resources allow.

Tier 1 - Change the application name and logos, favicon, and product and brand IDs. This can be used for quick re-branding, or in situations where extensive changes are not needed or fall outside the scope of allotted time or effort. [Controlling temporary licensing](#) is, also, easily changed in this tier with the caveats described below.


Tier 2 - Change the above, and color scheme for banners, tabs, buttons, panes (System Status, Configuration View, System Overview), selection highlighting, and tree trunks and branches.

Tier 3 - Change the above, and icons that represent system components (such as vdisks and volumes) and statuses (such as component health and event severity). Changing SCSI product and vendor IDs is an option, but should only be done after reviewing [Changing SCSI ID values](#) below and [Editing restrictions](#) on page 13, and fully understanding the affects this has on your system.

 **IMPORTANT:** The RAIDAR User Guide describes the baseline colors denoting storage space. Changing the colors of storage space color codes does not impact functionality; however, you should note changes to those colors so users of that documentation are aware of the new denotations.

Changing SCSI ID values

The CTK allows you change the SCSI vendor ID and SCSI product ID. These values must be changed together, and only when you have officially assigned IDs. Unqualified IDs may invalidate certifications and cause incompatibilities with existing software. Re-branding alone does not require recertification; however, changing the SCSI vendor or product IDs might.

 **CAUTION:** Host access may fail if the SCSI vendor ID or SCSI product ID are changed to unqualified values. Do not change these values separately, or without officially assigned IDs.

When changing the `scsi-vendor-id` and `scsi-product-id` values, ensure that you accurately enter the appropriate values and adhere to guidance provided in [Editing restrictions](#) on page 13. After customization, these values no longer appear by default in the WBI or CLI and are only displayed through the CLI via the `show system detail` command. These values do not appear in the WBI mock-up provided for testing purposes.

The customization script performs a rudimentary check of the `scsi-vendor-id` and `scsi-product-id` values. This check does not ensure the validity of the values, but merely checks for appropriate length. Max length for `scsi-vendor-id` is eight characters and `scsi-product-id` is 16 characters.

Because of potential adverse consequences, changing `scsi-vendor-id` and `scsi-product-id` values should be reserved for users who fully understand these values' functions and are prepared to troubleshoot issues arising from these changes.


Support for changing the SCSI vendor ID and SCSI product ID, software recertification and certification transfer fall outside the scope of this document.

Controlling temporary licensing

Temporary licensing permits the end-user customer to enable features such as AssuredCopy and AssuredRemote, or expand their usage of AssuredSnap on a 60 day trial basis.

The CTK allows you to disable this temporary licensing feature so that the WBI does not present the option of creating temporary licenses. This is controlled with a `true/false` flag in the `brandInfo.ini` file.

When the `trialLicensing` flag is set to `true`, temporary licensing is enabled for the end-user customer. The End User Licensing Agreement (EULA), which includes references to Dot Hill, is displayed in the WBI. While you may change or replace the EULA, Dot Hill does not recommend this.

 **IMPORTANT:** The EULA is a legal document. Dot Hill recommends you consult legal counsel prior to making any changes to this agreement.


When the `trialLicensing` flag is set to `false`, temporary licensing is not enabled for the end-user customer.

Running the Customization Tool Kit

The CTK runs with one of six parameters from a command prompt with the syntax `ctk.pl --parameter` where:

- `ctk.pl` runs the script.
- `parameter` determines the action taken by the script.

Running `ctk.pl` without a parameter displays the CTK Help.

 **NOTE:** Because Perl functionality may differ from platform to platform, this document does not include the command prompt or Perl invocation when describing the script or parameters. For example, `C:\ctk>perl ctk.pl --p` is written as `ctk.pl --p`.

Using appropriate parameters

The CTK consists of one script that performs several functions. Use parameters to direct script function. A parameter is specified using either the first letter or the full word. Parameters `--p` and `--prepare` are equivalent

Table 2 CTK Parameters and functions. The full word option appears in brackets.

Parameter	Function
<code>--b[undle]</code>	Packages the customization for delivery to Dot Hill Systems for validation.
<code>--c[ustomize]</code>	Builds a mock-up of the customized WBI for inspection and limited testing in the <code>Staging</code> directory. This option does not deploy the customization, nor is the WBI in the <code>Staging</code> area functional.
<code>--h[elp]</code>	Displays a quick summary of available parameters
<code>--l[oad]</code>	Places a previously bundled customization in the <code>Sandbox</code> directory, then builds the <code>Staging</code> directory based on those customizations. This overwrites any customization that may exist in either directory.
<code>--p[repare]</code>	Copies editable files from the <code>Source</code> to the <code>Sandbox</code> directory, and builds a version of the WBI in the <code>Staging</code> directory. Files that have been customized are not over-written with this option.
<code>--p[repare]</code> <code>--f[orce]</code>	Copies editable files from the <code>Source</code> to the <code>Sandbox</code> directory, and builds a version of the WBI in the <code>Staging</code> directory. Prepare and Force together differ from Prepare alone in that files that have been customized are over-written.

Preparing to customize the interface

To create a sandbox, run `ctk.pl --p`


This places editable files in the `Sandbox` directory of the Customization Toolkit and creates a viewable `index.html` file in the `Staging` directory.

Customizing the interface


The customization process follows the iterative pattern of edit, build, test, repeat. The build step is required to assemble the customized and non-customized files in the `Staging` directory.

Only customize files in the sandbox. This location segregates files available for customization while protecting important files that should not be changed.

1. Determine which files need to be edited for this customization. See [Determining what level of customization is appropriate](#) on page 10 and [Customizable files](#) on page 17 for an overview of customizable files and their associated functionality.
2. Edit files as appropriate for the customization plan. Strictly adhere to [Editing restrictions](#) on page 13.
3. Run `ctk.pl --c` to build a customized version of the WBI.
4. Exit any browser window displaying the WBI.
5. Open a new browser window and clear the browser cache.


 **IMPORTANT:** Browsers cache pages. Skipping steps 4 and 5 may result in a previous version being displayed.

6. In the `Staging` directory, click `index.html` to open the test WBI in a browser.
7. Test the customization. See [Testing the customized interface](#) on page 15.
8. Repeat from [step 1](#), as necessary, to complete the customization.

 **IMPORTANT:** Perform all customizations in the `Sandbox` directory. The `Staging` directory is volatile and changes made there are overwritten the next time `ctk.pl --c` is run.

Editing restrictions

Observe these restrictions when customizing files.

 **CAUTION:** Failure to adhere to these restrictions may result in loss of data or failure to build the customization.

In general:

- Do not add unnecessary files to any `ctk` directory. Store temporary, work, or notes files in a directory outside of the `ctk` directory.
- Do not rename files. Files must keep the same name as the original.
- Maintain the same file type as the original. Simply changing a file extension is not adequate, files must be saved as that file type.

Graphics files:

- Custom graphics files must be the same dimensions and type as the original files unless otherwise stated in [All customizable WBI images](#) on page 23.
- Duplicate files with differing extensions exist in the `images` directory. Files with the `.gif` extension are used in Microsoft Internet Explorer 6 only. Files with the `.png` extension are used in all other browser versions. These files should be identical in appearance to maintain consistency from browser to browser.

In the `brandInfo.ini` file:

- Do not enter spaces before or after the '='

- Change the `vendor-name`, `product-id`, and `product-brand` as needed. These are not programmatic values and do not affect functionality. These values, also, accept multi-byte characters.
- Avoid changing the `scsi-vendor-id` and `scsi-product-id`. See [Changing SCSI ID values](#) on page 11 for more information.

In other text files:

- Check mark-up files such as HTML files for well-formedness after editing.
- Express colors in hexadecimal format. That is, enter blue as `'#0000FF'` rather than `'blue'`.

Customizing buttons and tabs

Buttons and tabs are a special case as they consist of two images per state per size: The left edge and the remainder, or the right portion, where text is displayed.

Table 3 Button and tab structures

Function	Left	Remainder
Button normal		
Button emphasized (focus)		
Button over (hover)		
Button down (press)		
Button disabled		
Tab normal		
Tab emphasized (focus)		
Tab over (hover)		
Tab selected		
Tab disabled		

When customizing buttons and tabs, ensure that both left and remainder files for all sizes and all states are customized.

Understanding control states

Notice the subtle differences in color for each tab and button in [Table 3](#) on page 14. These differences represent different states. The different states for controls are:

- disabled

- down (buttons only)
- emphasized
- normal
- selected (tab only)
- over

Testing the customized interface

In the `Staging` directory, open `index.html` in a web browser. This presents a fully functioning mock-up of the WBI. For testing purposes, the sign-in page does not require a username or password.

Because of the high level of customization available, the person doing the customization is best suited to determine what aspects of the WBI need to be tested.

During testing, consider:

- Correct spelling for textual changes.
- Color matches between panes.
- Color matches between states of items.
- Appropriate changes in button appearance during “over,” “down,” and “disabled” operation.
- Appropriate contrast between font and background colors.
- Appropriate messaging from “health,” “status,” and other communication icons.

 **IMPORTANT:** If the SCSI Product ID and SCSI Vendor ID have been changed, ensure the entered values are correct and qualified.

Functionality cannot be customized. If errors occur, or if the presentation of information changes beyond what has been customized, functional errors may have been introduced during the customization process. For more information about correcting functional errors in the WBI that have been introduced during the customization process, see [Restoring the baseline WBI](#) on page 16.

To test the WBI:


1. Verify names and logos that you changed on the sign-in page.
2. Sign in and browse the component and task panels to verify text and graphics that you changed.
3. In the `Configuration View` pane, right-click on the system and select `View > Test Buttons` to view buttons in all states of activity.
4. Select `Test Tabs` to view tabs in all states of activity.
5. Click the `Help` icon and view text and graphics changes for the help window.

Packaging the customized interface

Once you thoroughly test and are satisfied with the customized WBI:

1. Run `ctk.pl --b` to package the finished customization. This creates a `CUSTOMIZATION.zip` in the `ctk` directory.
2. Use the FTP process to return the `CUSTOMIZATION.zip` file to Dot Hill Systems.

Dot Hill Systems validates the customized WBI and is the final arbiter for implementation.

 **IMPORTANT:** You are responsible for creating a valid customization. Dot Hill Systems does not provide GUI development services.

The customized WBI may installed at the time of manufacture by Dot Hill Systems, or distributed as a firmware update. Customizations are not affected by other firmware updates.

Restoring the baseline WBI

If you introduced errors during the customization process, or if the default presentation is preferred, run `ctk.pl --p --f` to overwrite all `Sandbox` directory files with the original source code, remove all customizations, and restore the original interface in the `Staging` directory.

△ **CAUTION:** Returning to a baseline WBI eliminates all changes. Only perform this procedure to return to a baseline WBI interface, or to eliminate functional errors introduced during customization.

CTK logic assumes that the `Source` directory has not changed. If errors have been introduced because of changes made in the `Source` directory, you must re-install the CKT. See [Installing the Customization Tool Kit](#) on page 10.

2 Customizable files

This chapter describes interface elements and associated files that you can customize. It follows the tiered approach suggested on [page 10](#).

Tier one customization

1 points to the browser address bar showing `C:\ctk\Staging\index.html`.

2 points to the top navigation bar.

3 points to the RAIDar logo.

4 points to the 'RAIDar Storage Management Utility' title bar.

5 points to the 'System (System)' header.

6 points to the 'System Overview' table.

7 points to the 'System Information' table.

Health	Component	Count	Capacity	Storage Space
OK	System		807.5GB	807.5GB
OK	Enclosures	1	807.5GB	660.7GB 146.8GB
OK	Disks	8	807.5GB	660.7GB 146.8GB
OK	Vdisks	2	440.4GB	120.0GB 320.4GB 220.3GB
	Volumes	2	100.0GB	
	Snap Pools	2	20.0GB	
	Snapshots	2		
	Schedules	0		
	Configuration Limits			
	Licensed Features			
	Versions			

Property	Value
Health	OK
System Name	CTK
System Contact	CTK User
System Location	CTK Location
System Information	Customization Toolkit UI Test
Vendor Name	Dot Hill
Product ID	DH3000
Product Brand	R/Evolution
Supported Locales	English (English)

RAIDar Help: Viewing information about the system

In the Configuration View panel, right-click the system and select View > Overview. The System Overview table shows:

- The system's health:
 - OK: The system is operating normally.
 - Degraded: At least one component is degraded.
 - Fail: At least one component has a fault.
 - N/A: Health status is not available.
- The system's total storage space
- The health, quantity, and storage space of enclosures, disks, and vdisks
- The quantity and storage space of volumes and snap pools
- The quantity of snapshots and task schedules
- Configuration limits, licensed features, and versions of controller firmware and hardware

For descriptions of storage-space color codes, see About storage-space color codes.

Select a component to see more information about it.

System properties

When you select the System component a table shows the system's health, name, contact, location, information (description), vendor name, product ID, product brand, SCSI vendor ID, and supported locales (languages).

A second table shows the system's redundancy mode and status, and each controller's status.

Enclosure properties

When you select the Enclosure component a table shows each enclosure's health, ID, WWN, vendor, model, and quantity of disk slots.

Disk properties

Figure 1 Commonly customized tier one elements on the sign-in (above) and main (below) pages

Callout	Description	Editable file and variable	Comments
1	Favorites icon	<code>favicon.ico</code>	Displays in the address bar of the browser window, and on tab in a tabbed display. This icon is visible only when the page is served to the browser.
2	Application or company logo	<code>signin_logo.png</code>	May be sized 100–300px width, 50-100px height
3	Application banner image	<code>signin_image.png</code>	Appears on sign-in screen only. Size 100px –100px.
4	Smaller application or company logo	<code>masthead_logo.png</code>	Size 76px –39px. Usually a smaller version of the application or company banner on the sign-in page.
5	Application name	<code>brandInfo.ini</code> <i>applicationTitle</i>	See Editable text files on page 22 for important information about editing text values.
6	Abbreviated application name in Help	<code>brandInfo.ini</code> <i>applicationTitleAbbrev</i>	
7	System overview information such as vendor and product names	<code>brandInfo.ini</code> <i>vendor-name</i> <i>product-id</i> <i>product-brand</i>	

Tier two customization

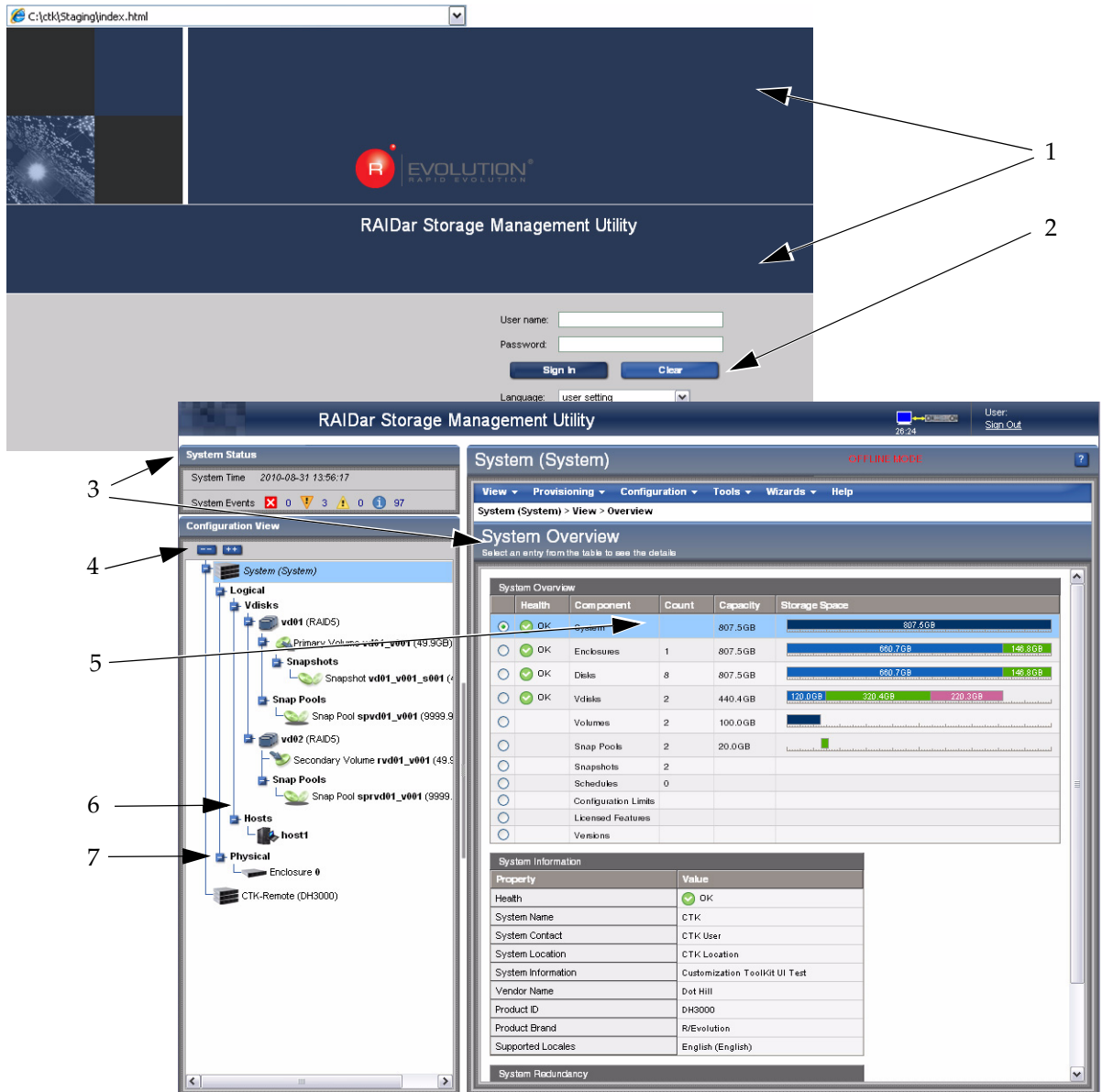


Figure 2 Commonly customized tier two elements on the sign-in (above) and main (below) pages

Callout	Description	Editable file and variable
1	Sign-in banner color	1-CSSColors.tag <i>BrandMainColor</i>
2	Buttons	Button images are in the images/buttons directory
3	Pane banners	bartitle.png bartitle_large.png overviewtitle.png
4	Tree expand all, collapse all buttons	images/ CE_Button*.png
5	Selection highlighting	1-CSSColors.tag <i>SelectColor</i>

Callout	Description	Editable file and variable
6	Tree trunk and branches	
7	Tree show/hide controls	

Tier three customization

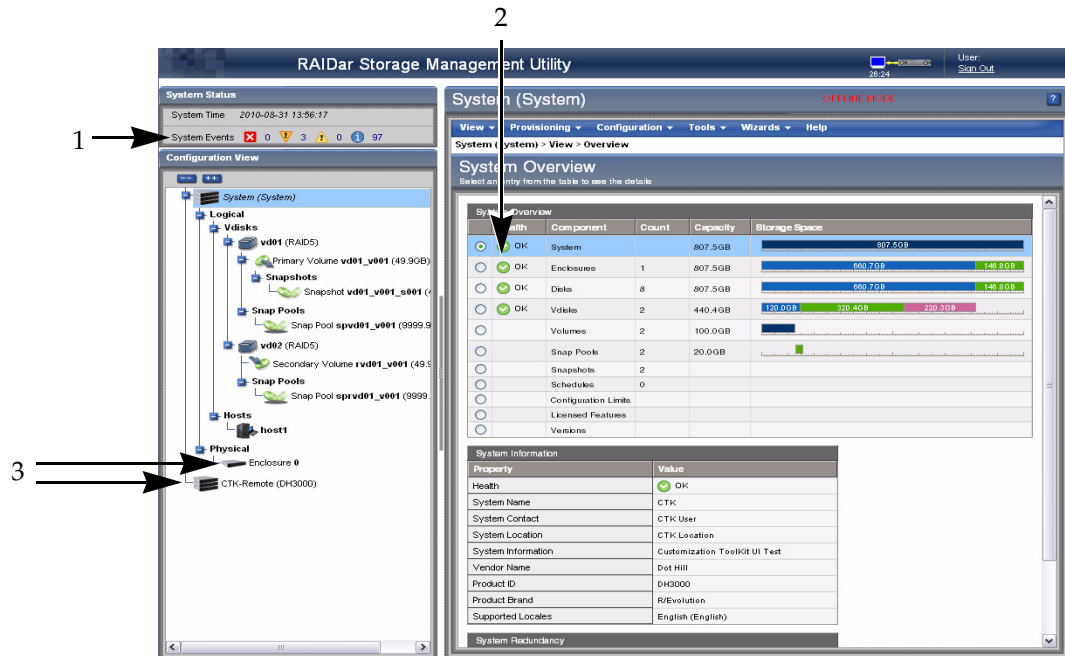


Figure 3 Commonly customized tier three elements on the main page

Callout	Description	Editable file	Comments
1	Event icons	status_state_icon[_small].png	Size icons to 15px–15px Size small icons to 9px–9px State represents the differing conditions. See Understanding control states on page 14. .Gif icons are used in Microsoft Internet Explorer 6
2	Health icons	status_state_icon[_small].png	
3	Component icons	Files in the tree subdirectory that do not begin with tree- or tv-	Size icons to 29px–20px .Gif icons are used in Microsoft Internet Explorer 6

Editable text files

These text files control display and connection information, and control colors used in the application.

Table 4 Editable values in `brandInfo.ini`

Property	Value use	Visible in
vendor-name	Vendor name displayed in System Information	WBI, CLI
product-id	Product ID displayed in System Information	WBI, CLI
product-brand	Product brand displayed in System Information	WBI, CLI
scsi-product-id	SCSI IDs must be qualified. Host access may fail if the SCSI IDs are changed to an unqualified ID. SCSI IDs are controlled by T10, a subcommittee of the InterNational Committee on Information Technology Standards (INCITS).	Hidden. See Understanding automatic changes to the user interfaces on page 10 for more information.
scsi-vendor-id		
applicationTitle	Title displayed in application banner	WBI, CLI
applicationTitleAbbrev	Abbreviated title displayed in application Help	WBI Help
triallicensing	Controls the availability of temporary licensing. Value must be set to <code>true</code> or <code>false</code> . See Controlling temporary licensing on page 11 for more information.	WBI

Table 5 Editable values in `1_CSSColors.tag`

Color Palette Section	Usage
Theme Color	These colors are used in the application banner
General Functional Colors	Colors used in common functionality such as selections, table rows, and text colors
Application Specific Colors	Colors used in specific application controls or displays in the applications. Names are descriptive of functionality.

All customizable WBI images

Table 6 lists all elements that might be changed in tier three customization.

The “Usage” column of Table 6 indicates the general functional location of the image. Elements used throughout the WBI are listed first.

Images described as “for IE6” are used only in Microsoft Internet Explorer 6. Customize these icons only if you use IE6, otherwise ignore these icons during the customization process.

Table 6 All customizable WBI image files



















Usage	Image	Description	File	Width	Height
Throughout		Primary tab background	tab/ LargeBar.png	8	32
		Primary tab right background, disabled	tab/ LargeDisabled.png	398	32
		Primary tab left background, disabled	tab/ LargeDisabledLeft.png	8	32
		Primary tab right background, normal	tab/ LargeNormal.png	398	32
		Primary tab left background, normal	tab/ LargeNormalLeft.png	8	32
		Primary tab right background, emphasized	tab/ LargeEmph.png	300	24
		Primary tab left background, emphasized	tab/ LargeEmphLeft.png	8	24
		Primary tab right background, hover	tab/ LargeOver.png	398	32
		Primary tab left background, hover	tab/ LargeOverLeft.png	8	32
		Primary tab right background, selected	tab/ LargeSelected.png	398	32
		Primary tab left background, selected	tab/ LargeSelectedLeft.png	8	32
		Secondary Tabs background	tab/ MediumBar.png	8	26
		Secondary tab right background, disabled	tab/ MediumDisabled.png	398	26
		Secondary tab left background, disabled	tab/ MediumDisabledLeft.png	8	26
		Secondary tab right background, normal	tab/ MediumNormal.png	398	26
		Secondary tab left background, normal	tab/ MediumNormalLeft.png	8	26
		Secondary tab right background, emphasized	tab/ MediumEmph.png	300	22
		Secondary tab left background, emphasized	tab/ MediumEmphLeft.png	8	22

Table 6 All customizable WBI image files
















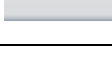





Usage	Image	Description	File	Width	Height
Throughout		Secondary tab right background, hover	tab/ MediumOver.png	398	26
		Secondary tab left background, hover	tab/ MediumOverLeft.png	8	26
		Secondary tab right background, selected	tab/ MediumSelected.png	398	26
		Secondary tab left background, selected	tab/ MediumSelectedLeft.png	8	26
		Tertiary Tabs background	tab/ SmallBar.png	8	18
		Tertiary tab right background, disabled	tab/ SmallDisabled.png	398	18
		Tertiary tab left background, disabled	tab/ SmallDisabledLeft.png	8	18
		Tertiary tab right background, normal	tab/ SmallNormal.png	398	18
		Tertiary tab left background, normal	tab/ SmallNormalLeft.png	8	18
		Tertiary tab right background, emphasized	tab/ SmallEmph.png	300	20
		Tertiary tab left background, emphasized	tab/ SmallEmphLeft.png	8	20
		Tertiary tab right background, hover	tab/ SmallOver.png	398	18
		Tertiary tab left background, hover	tab/ SmallOverLeft.png	8	18
		Tertiary tab right background, selected	tab/ SmallSelected.png	398	18
		Tertiary tab left background, selected	tab/ SmallSelectedLeft.png	8	18
		Small button right background, Disabled	buttons/ SmallDisabled.png	301	15
		Small button left background, Disabled	buttons/ SmallDisabledLeft.png	6	15
		Small button right background, Normal	buttons/ SmallNormal.png	301	15
		Small button left background, Normal	buttons/ SmallNormalLeft.png	6	15
		Small button right background, Emphasized	buttons/ SmallEmph.png	301	15
		Small button left background, Emphasized	buttons/ SmallEmphLeft.png	6	15

Table 6 All customizable WBI image files






















Usage	Image	Description	File	Width	Height
Throughout		Small button right background, Hover	buttons/ SmallOver.png	301	15
		Small button left background, Hover	buttons/ SmallOverLeft.png	6	15
		Small button right background, Down	buttons/ SmallDown.png	301	15
		Small button left background, Down	buttons/ SmallDownLeft.png	6	15
		Medium button right background, Disabled	buttons/ MediumDisabled.png	303	20
		Medium button left background, Disabled	buttons/ MediumDisabledLeft.png	6	20
		Medium button right background, Normal	buttons/ MediumNormal.png	303	20
		Medium button left background, Normal	buttons/ MediumNormalLeft.png	6	20
		Medium button right background, Emphasized	buttons/ MediumEmph.png	303	20
		Medium button left background, Emphasized	buttons/ MediumEmphLeft.png	6	20
		Medium button right background, Hover	buttons/ MediumOver.png	303	20
		Medium button left background, Hover	buttons/ MediumOverLeft.png	6	20
		Medium button right background, Down	buttons/ MediumDown.png	303	20
		Medium button left background, Down	buttons/ MediumDownLeft.png	6	20
		Large button right background, Disabled	buttons/ LargeDisabled.png	303	22
		Large button left background, Disabled	buttons/ LargeDisabledLeft.png	6	22
		Large button right background, Normal	buttons/ LargeNormal.png	303	22
		Large button left background, Normal	buttons/ LargeNormalLeft.png	6	22
		Large button right background, Emphasized	buttons/ LargeEmph.png	303	22
		Large button left background, Emphasized	buttons/ LargeEmphLeft.png	6	22
		Large button right background, Hover	buttons/ LargeOver.png	303	22

Table 6 All customizable WBI image files



















Usage	Image	Description	File	Width	Height
Throughout		Large button left background, Hover	buttons/ LargeOverLeft.png	6	22
		Large button right background, Down	buttons/ LargeDown.png	303	22
		Large button left background, Down	buttons/ LargeDownLeft.png	6	22
Sign-in page		Graphic for lower left checkerboard square	signin_image.png	100	100
		Company logo, large	signin_logo.png	100 to 300	50 to 100
Browser URL		Website icon, used by most browsers.	favicon.ico	16	16
Banner		Background for application banner, tiled horizontally	mastheadBG.png	40	40
		Logo overlaid on application banner at left	masthead_logo.png	76	39
Configuration View panel		Expand/Collapse buttons, Disabled	buttons/ CButtonDisabledLeft.png	6	13
		Expand/Collapse buttons, Normal	buttons/ CButtonNormLeft.png	6	13
		Expand/Collapse buttons, Emphasized	buttons/ CButtonEmphLeft.png	6	13
		Expand/Collapse buttons, Hover	buttons/ CButtonOverLeft.png	6	13
		Expand/Collapse buttons, Down	buttons/ CButtonDownLeft.png	6	13
		Collapse, Disabled	buttons/ CCButtonDisabled.png	24	13
		Collapse, Normal	buttons/ CCButtonNorm.png	24	13
		Collapse, Emphasized	buttons/ CCButtonEmph.png	24	13
		Collapse, Hover	buttons/ CCButtonOver.png	24	13
		Collapse, Down	buttons/ CCButtonDown.png	24	13

Table 6 All customizable WBI image files






















Usage	Image	Description	File	Width	Height
Configuration View panel		Expand, Disabled	buttons/ CEButtonDisabled.png	24	13
		Expand, Normal	buttons/ CEButtonNorm.png	24	13
		Expand, Emphasized	buttons/ CEButtonEmph.png	24	13
		Expand button, Hover	buttons/ CEButtonOver.png	24	13
		Expand button, Down	buttons/ CEButtonDown.png	24	13
Configuration View tree		Vdisk (used for all, not just SAS)	tree/ arraysas.png	29	20
		Vdisk (used for all, not just SAS) (for IE6)	tree/ arraysas.gif	29	20
		Enclosure	tree/ enclosure.png	29	20
		Enclosure (for IE6)	tree/ enclosure.gif	29	20
		Host	tree/ initiator.png	29	20
		Host (for IE6)	tree/ initiator.gif	29	20
		RSR image	tree/ rsrimage.png	29	20
		RSR image (for IE6)	tree/ rsrimage.gif	29	20
		RSR image (remote)	tree/ rsrimagegray.png	29	20
		RSR image (remote) (for IE6)	tree/ rsrimagegray.gif	29	20
		RSR prepared volume	tree/ rsrprepared.png	29	20
		RSR prepared volume (for IE6)	tree/ rsrprepared.gif	29	20
		RSR primary volume	tree/ rsrsource.png	29	20
		RSR primary volume (for IE6)	tree/ rsrsource.gif	29	20
		RSR primary volume (remote)	tree/ rsrsourcegray.png	29	20
		RSR primary volume (remote) (for IE6)	tree/ rsrsourcegray.gif	29	20

Table 6 All customizable WBI image files
















Usage	Image	Description	File	Width	Height
Configuration View tree		RSR secondary volume	tree/ rsrtarget.png	29	20
		RSR secondary volume (for IE6)	tree/ rsrtarget.gif	29	20
		RSR secondary volume (remote)	tree/ rsrtargetgray.png	29	20
		RSR secondary volume (remote) (for IE6)	tree/ rsrtargetgray.gif	29	20
		Snapshot	tree/ snap.png	29	20
		Snapshot (for IE6)	tree/ snap.gif	29	20
		Snap Pool	tree/ snappool.png	29	20
		Snap Pool (for IE6)	tree/ snappool.gif	29	20
		System	tree/ system.png	29	20
		System (for IE6)	tree/ system.gif	29	20
		Tree item	tree/ tv-item.png	16	22
		Tree item (for IE6)	tree/ tv-item.gif	16	22
		Tree last item	tree/ tv-item-last.png	16	22
		Tree last item (for IE6)	tree/ tv-item-last.gif	16	22
		Tree collapsible item	tree/ tv-collapsible.png	16	22
		Tree collapsible item (for IE6)	tree/ tv-collapsible.gif	16	22
		Tree last collapsible item	tree/ tv-collapsible-last.png	16	22
		Tree last collapsible item (for IE6)	tree/ tv-collapsible-last.gif	16	22
		Tree expandable item	tree/ tv-expandable.png	16	22
		Tree expandable item (for IE6)	tree/ tv-expandable.gif	16	22
		Tree last expandable item	tree/ tv-expandable-last.png	16	22

Table 6 All customizable WBI image files






















Usage	Image	Description	File	Width	Height
Configuration View tree		Tree last expandable item (for IE6)	tree/ tv-expandable-last.gif	16	22
		Vertical navigation line	tree/ tv-line.png	16	22
		Vertical navigation line (for IE6)	tree/ tv-line.gif	16	22
		Volume	tree/ vol.png	29	20
		Volume (for IE6)	tree/ vol.gif	29	20
Dialog		Action success	success.png	46	46
		Informational message	message.png	46	46
		Warning	warning.png	46	46
		Error	error.png	46	46
		Action failure	failure.png	46	46
		Animated progress/working bar	progress_bar_small.gif	150	10
Status		Severity, major	status_major_icon.png	15	15
		Severity, major (for IE6)	status_major_icon.gif	15	15
		Severity, major	status_major_icon_small.png	10	10
		Severity, major (for IE6)	status_major_icon_small.gif	10	10
		Severity, informational	status_informational_icon.png	15	15
		Severity, informational (for IE6)	status_informational_icon.gif	15	15
		Severity, informational	status_informational_icon_small.png	10	10
		Severity, informational (for IE6)	status_informational_icon_small.gif	10	10
		Bad & event severity, critical (for IE6)	status_critical_icon.gif	15	15
		Bad & event severity, critical	status_critical_icon.png	15	15
		Bad & event severity, critical (for IE6)	status_critical_icon_small.gif	10	10
		Bad & event severity, critical	status_critical_icon_small.png	10	10

Table 6 All customizable WBI image files























Usage	Image	Description	File	Width	Height
		Degraded & event severity, minor	status_minor_icon.png	15	15
		Degraded & event severity, minor (for IE6)	status_minor_icon.gif	15	15
Status		Degraded & event severity, minor	status_minor_icon_small.png	10	10
		Degraded & event severity, minor (for IE6)	status_minor_icon_small.gif	10	10
		Normal	status_normal_icon.png	15	15
		Normal (for IE6)	status_normal_icon.gif	15	15
		Normal	status_normal_icon_small.png	10	10
		Normal (for IE6)	status_normal_icon_small.gif	10	10
		Unknown	status_unknown_icon.png	15	15
		Unknown (for IE6)	status_unknown_icon.gif	15	15
		Unknown	status_unknown_icon_small.png	10	10
		Unknown (for IE6)	status_unknown_icon_small.gif	10	10
All panels		Panel background, tiled (makes graphic border)	DarkGrayPanel.png	8	6
Panel content		Background for right hand content panel title bar	overviewtitle.png	2000	46
Panel left		Background for left hand panel title bars	bartitle.png	800	24
Panel right		Background for right hand panel title bar	bartitle_large.png	2000	36
		Help/button	helpIcon.png	18	18
		Right background image for menu bar	menus/menuBG.png	3000	22
		Left background image for menu bar	menus/menuBGLeft.png	6	22
		Animated progress/working bar	progress_bar_small.gif	150	10

Table 6 All customizable WBI image files

Usage	Image	Description	File	Width	Height
Panel separator		Drag handle for resizing left and right panels horizontally	e_clear_resize.png	6	200
Panel status		Status panel background, tiled	grey_panel_bg.gif	20	20

