

BRIDGE



DATA → INSIGHT → ACTION

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Dimensional Insight

BRIDGE

Bridge 7.0 Manual Revision Doc-BR-70-021617-03.

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Since Gif89Encoder includes significant sections of code from Jef Poskanzer's GifEncoder.java, I'm including its notice in this distribution as requested (appended below).

As for my part of the code, I hereby release it, on a strictly "as is" basis, to the public domain.

J. M. G. Elliott
15-Jul-2000

----- from Jef Poskanzer's GifEncoder.java -----

```
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//
// Transparency handling and variable bit size courtesy of Jack Palevich.
//
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BRIDGE

Contents



Chapter 1: Introduction	1-1
Bridge.....	1-1
Design	1-1
How it Works.....	1-3
Requirements	1-4
Bridge Configuration	1-4
Authentication.....	1-5
Getting Help – Technical Support	1-6
Downloading DI Software	1-6
Related Documents	1-6
Chapter 2: Installation	2-1
Requirements	2-1
Installation Steps.....	2-2
Custom Graphics.....	2-11
Chapter 3: Configuration Options	3-1
Edit Dialogs	3-2
Configuring Destinations.....	3-3
Sample Settings Edit Dialogs	3-6
Reorganizing Buttons	3-12
Making a Copy of a Destination.....	3-13
Editing a Destination	3-13
Deleting a Destination	3-13

BRIDGE

Configuring Users.....	3-14
Configuring Miscellaneous Settings.....	3-15
User Access.....	3-21

Index



Chapter 1

Introduction

If you are a user of The Diver Solution, over time you may find yourself with multiple projects, using multiple DiveLine servers, building multiple DivePort Portals, on multiple platforms, perhaps with different authentication methods. This of course means multiple maintenance jobs, multiple development teams, perhaps multiple versions of the solution software and packaged applications, and lots of end users relying on the data. Do you find yourself hoping for an easier way to deal with the increasing complexity of managing multiple installs?

The latest addition to The Diver Solution is the Bridge component. Its purpose is to function as a single point of entry for all your DI products, be they DivePort- or NetDiver-based.

Bridge

Bridge is a web application based on DivePort technology that lets you navigate your DI applications from one central place. It gives you single-click access to your DivePort portals and lets you get to all your relevant web content without relying on browser features like bookmarks.

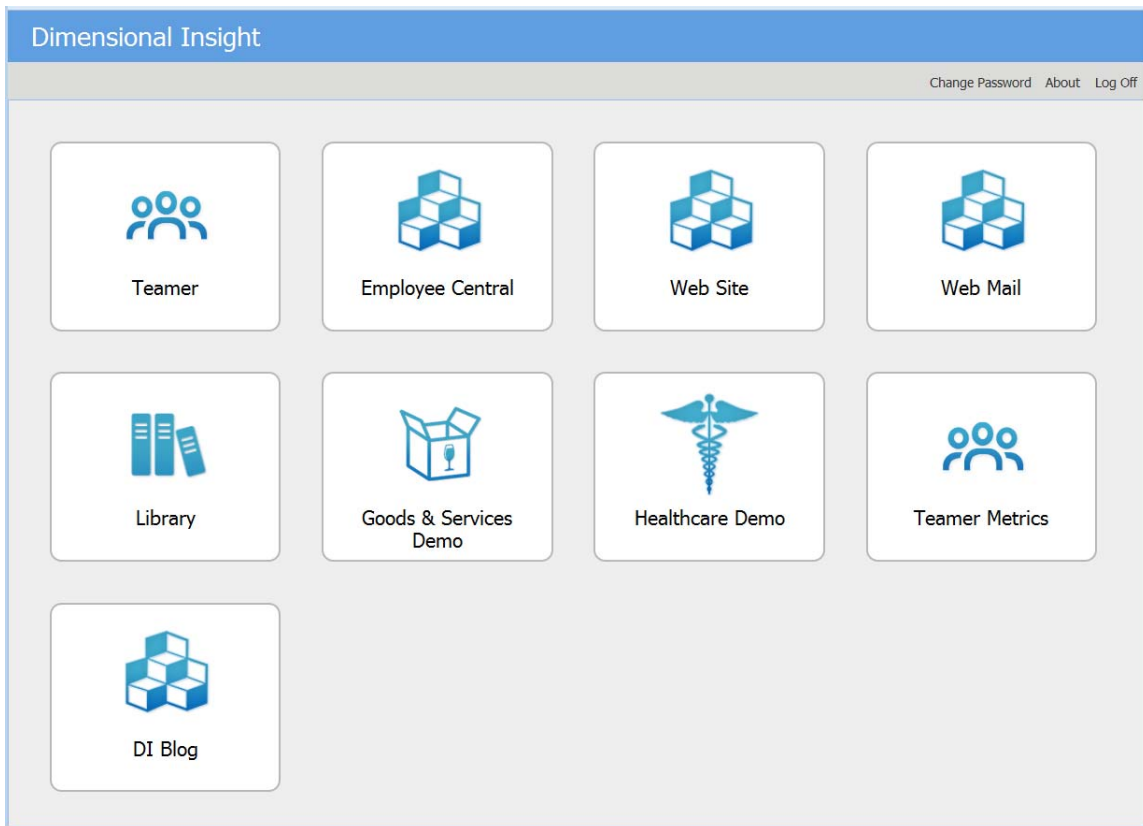
Bridge presents a single view of DivePort Applications and Portals regardless of which version is running. This allows you to build new Applications and Portals taking advantage of the latest Diver Platform functionality without first upgrading existing applications. You get seamless access to existing and future applications under one umbrella.

Design

Although released as part of version 7.0, Bridge supports all versions of DI software. There are no cross-compatibility limitations – you can use it to launch any functioning DI application. This can be on one machine or on multiple platforms. If properly configured, there is one Authentication layer across all DI applications, so it supports single sign-on. The result is a single browser and single-click application access for your end users.

When configured, Bridge needs to know about the other Applications and DI Portals. In turn, the hosting DiveLines need to know about Bridge. You can configure multiple Bridges to segment your users if it suits your environment, but it is not required. The user interface can be configured to display one button for each Portal to which a user has been granted access, so the displayed buttons can vary by user. All users can be directed to a single URL to bookmark.

The interface, no matter how configured, is designed to be simple and consistent. A sample user interface for the Bridge component is shown below.



When installed and properly configured, Bridge authenticates end users when they log on. When the end user chooses a destination that is a DI application, a one time password is used to seamlessly log in to the target. What a user sees in each destination is controlled by that destination's configuration. Access is no different than what is in place without Bridge.

Furthermore, for any given destination, e.g. a DivePort, Bridge will not display that destination if it goes to DivePort pages that the current user does not have access to view.

How it Works

The Bridge administrator names all the available sites and provides an image and description for each button that will be displayed for the end users. The administrator also enters the DiveLine information, the Application and Portal URL information, and coordinates as needed with the administrators of the destination sites to complete configuration for single sign-on.

The tasks for Bridge are as follows:

- Use the hosting DiveLine’s user list for authentication.
- Determine what buttons to display for each user based on the settings for each destination.
- Link to other sites as configured.

Points to note:

- The authentication methods can be different between Bridge and the various target DiveLines. The target is set up to “trust” Bridge, and Bridge will forward the authentication.
- Passwords are not important – they can be the same or different. In a typical scenario, end users log in to Bridge with their Bridge password, and can connect to any other DI application regardless of what their password is on those sites.
- New users added to sites will need to be manually added to Bridge’s DiveLine.

From the end-user perspective:

1. Access Bridge using the published URL in your chosen web browser.
2. Enter your Username and Password.
3. View the displayed buttons for each configured application or portal.
4. Click on a button to open that application or portal.
5. Return at any time to the Bridge tab to access another application or portal.

Requirements

The infrastructure required for Bridge is the same as for The Diver Solution. If your organization makes use of DivePort, you will find Bridge easy to install and deploy. It is basically another DivePort instance, so it can run on your web server with all your other DivePorts. See [Chapter 2, Installation](#) for details.

For better control of Bridge access, particularly regarding who can modify Bridge settings, you may want to install a separate, dedicated DiveLine.

The basic set of users for Bridge will be taken from whichever DiveLine is selected to host it. Additional users can be created using DI-Config. For more information on maintaining users for DI software, please refer to the Server Settings section of the Workbench online help.

If you have yet to install and use DivePort, see the separate *Diver Platform 7.0 Installation Guide for Windows (or Linux)* that discusses the required infrastructure and how to deploy the standard DI Solution software.

Bridge Configuration

Bridge can be installed on an existing 7.0 DiveLine, or a new DiveLine instance can be created to host Bridge. When planning your deployment, be aware that the DiveLine user list controls who has access to that Bridge instance. If user lists vary widely for your DivePorts across your organization, manual updates via DI-Config will be required. For options, see the Server Settings section of the Workbench online help.

When Bridge is installed, all DiveLine administrators automatically become Bridge administrators. Only administrators have access to the **Admin** menu in the Bridge UI. Bridge administrators are not required to be DiveLine administrators.

Once installed, an administrator can add buttons linking to other content, set up additional administrators, and otherwise customize Bridge's look directly from the Bridge portal. See [Chapter 3, Configuration Options](#) for details.

You will find that no changes are required to DI applications on the same DiveLine as Bridge, but applications on other DiveLines will require edits to their configuration file (`atlcfg.cfg`). This is the location of the **gateway_ips** list which needs to be hand-edited to include Bridge's IP address or DNS name. This is required for single sign-on to work, along with the DiveLine server name and port in the Destination Settings. See [Configuring Destinations on page 3-3](#).



After testing buttons in a session, be sure to log out and close the browser and verify that the DiveLine sessions are closed. Then reenter Bridge to verify the behavior is as planned for various users.

Authentication

Bridge's user list is that of the DiveLine where it is installed. All flavors of DiveLine authentication are supported (OWN, LDAP, SYSTEM, or Web Server). Bridge's IP address or DNS name must be in the destination DiveLine's **gateway_ips** list for a seamless handoff.

Bridge keeps a local list of all the users of all the DiveLines that it has destinations pointing to. It uses this to decide which destinations to show to a user. If a destination has a DiveLine associated with it, it will only show that destination if the current user is in the user list for that DiveLine. If the destination goes to a DivePort page, Bridge will also make sure that the current user has access to see that page and will not show a destination that goes to a DivePort page that the current user does not have access to view.

If Bridge and destination DiveLines have the same user names (irrespective of case), and the **DiveLine** and **Admin Username** are part of the Destination configuration, Bridge knows which buttons to display for the end user. One click on the button puts the user into the application.



Bridge does a case-insensitive comparison when determining whether the current user is in the list of users for a given DiveLine, to determine whether to show a destination pointing to that DiveLine to that user.

If the Destination configuration is incomplete, causing Bridge to show an end user a destination where he has no access, then a secondary login will appear when the button is clicked.



Bridge uses an encrypted connection when communicating with encryption-enabled 7.0 DiveLines. However, for compatibility with older DI software, it allows access to unencrypted DiveLines.

Getting Help – Technical Support

Technical support is available from 7:00 AM to 5:00 PM Central Time.

Table 1-1: Technical Support Contact Information

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Related Documents

Other references that may be useful for Bridge administrators:

- *Diver Platform 7.0 Installation Guide for Windows (or Linux)* — details installation of required infrastructure and all components.
- Server Settings section of the Workbench online help — details configuration, installation, and maintenance of the DI server.
- DivePort online help — details directions for configuration, and customization of a DI Portal.
- Glossary tab of the online help system — lists a compilation of terms for all solution components.



Chapter 2

Installation

The installation requirements for Bridge are the same as for The Diver Solution 7.0.

Requirements

Dimensional Insight software is supported on the following:

- Windows Server configurations: Windows Server 2008 R2, Windows Server 2012
- Windows desktop OS: Windows 7, Windows 8, Windows 8.1, Windows 10
- Linux configurations: Red Hat Enterprise Linux, CentOS, Debian, Ubuntu, SuSE

To support Bridge, as well as DivePort, NetDiver, and DIAL, additional third party software must be installed.

- Web Application Server (WAS): Apache Tomcat. Another WAS can be used if the customer has the expertise.
- Oracle's Java Virtual 7 or higher.
- Web Browsers: Internet Explorer 9 or later, Mozilla Firefox, Google Chrome. Javascript, HTML, CSS, and cookies must be enabled.

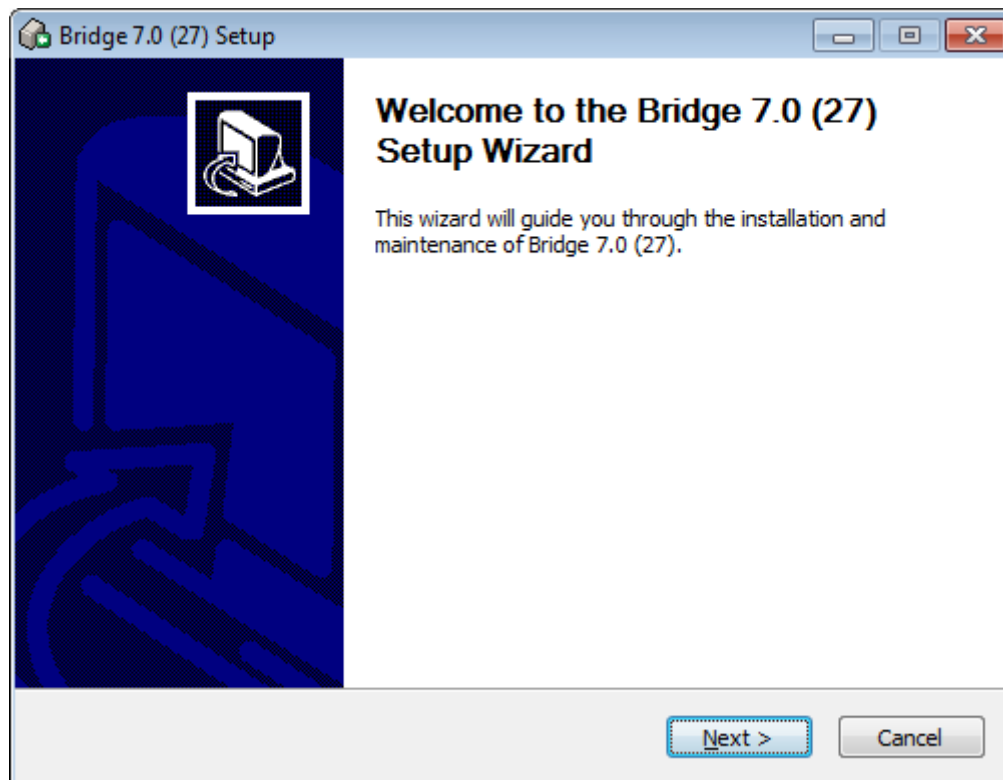
An Installer is available for Windows.

A distribution zip for Linux is available but requires manual deployment.

Installation Steps

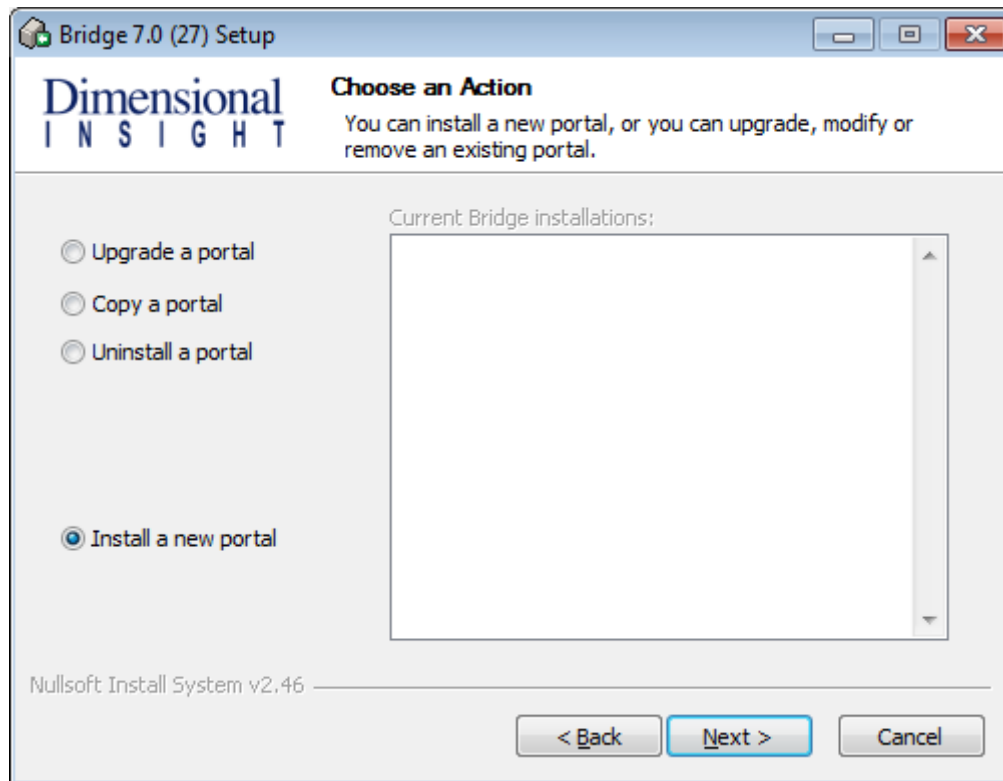
Wherever you install Bridge, the hosting DiveLine serves as the basis for its user list. Once you have determined which DiveLine to use for Bridge, launch the installer downloaded from DI Download. This section steps you through the installer for Windows.

1. Navigate to the Bridge distribution and double-click **Bridge-Setup.exe**.



The welcome dialog displays.

2. Click **Next**.

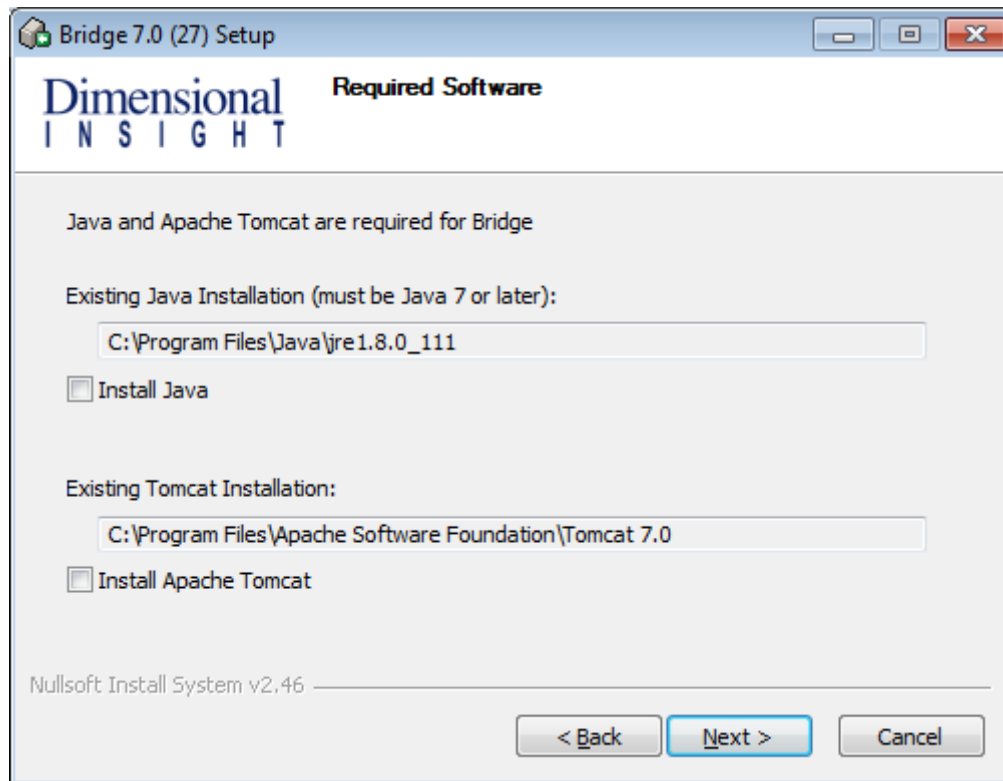


The **Choose an Action** dialog displays. It allows you to:

- Upgrade a portal
- Copy a portal
- Uninstall a portal
- Install a new portal

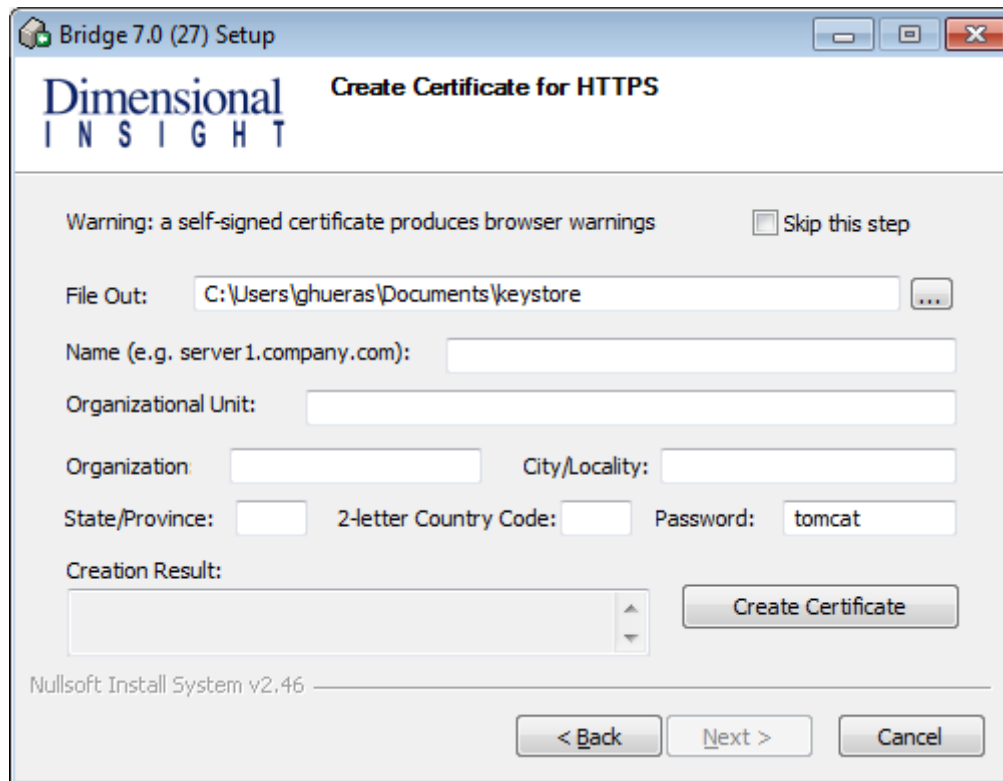
Each option walks you through the required steps.

3. Select **Install a new portal** and click **Next**.



The **Required Software** dialog displays.

4. If appropriate, check **Install Java** and/or **Install Apache Tomcat**. This example uses the existing installations.
5. Click **Next**.



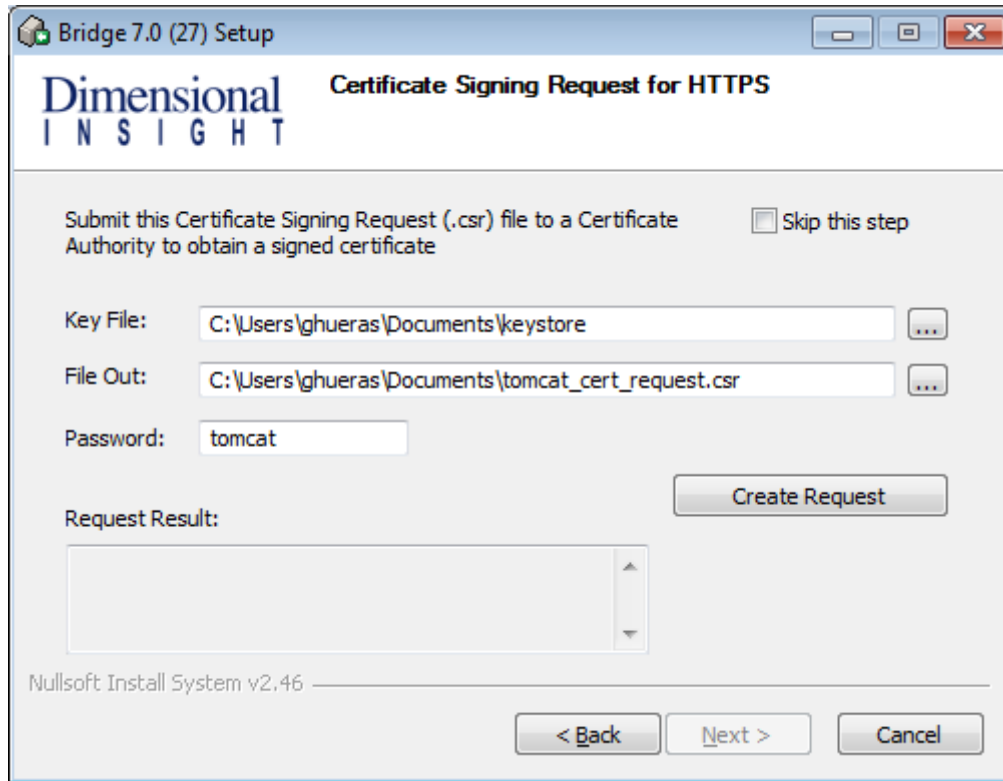
The **Create Certificate for HTTPS** dialog displays.

6. Fill in the information as appropriate or check **Skip this step**.



For further information, please refer to the separate *Diver Platform 7.0 Installation Guide for Windows (or Linux)*.

7. Click **Next**.



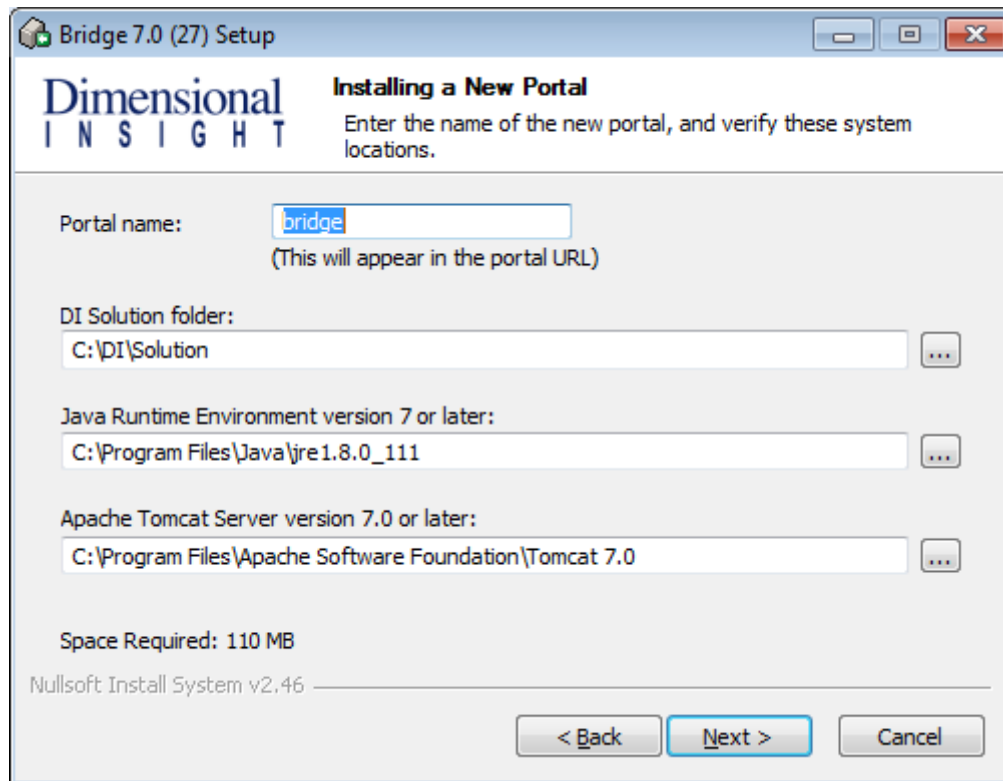
The **Certificate Signing Request for HTTPS** dialog displays.

8. Fill in the appropriate information or check **Skip this step**.



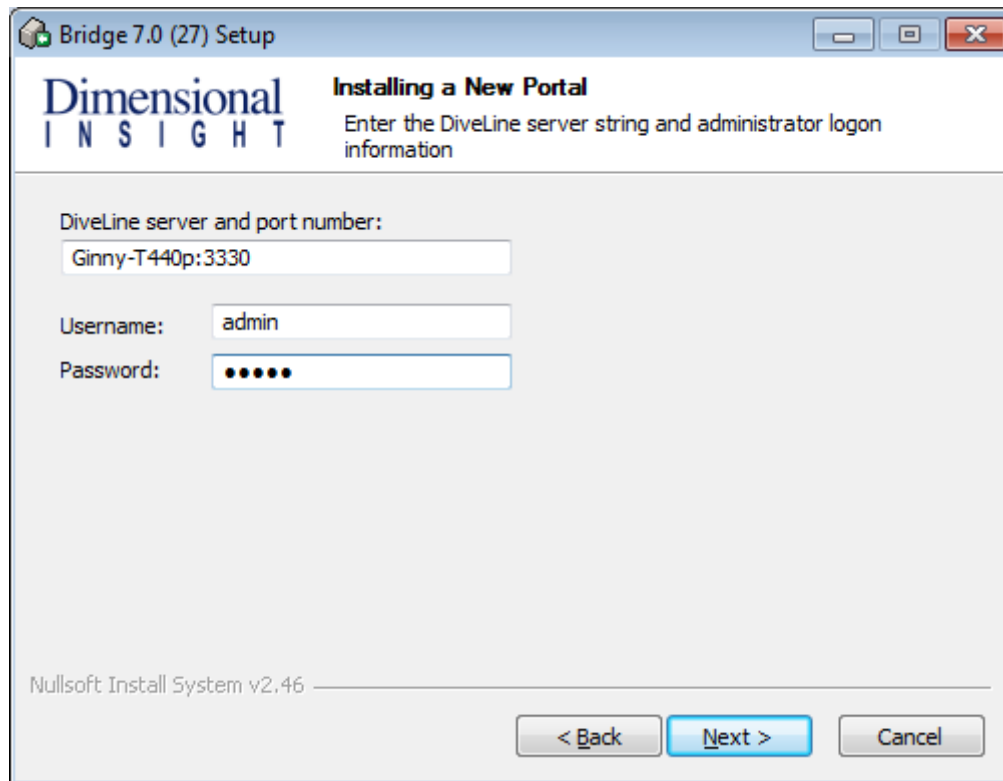
For further information, please refer to the separate *Diver Platform 7.0 Installation Guide for Windows (or Linux)*.

9. Click **Next**.



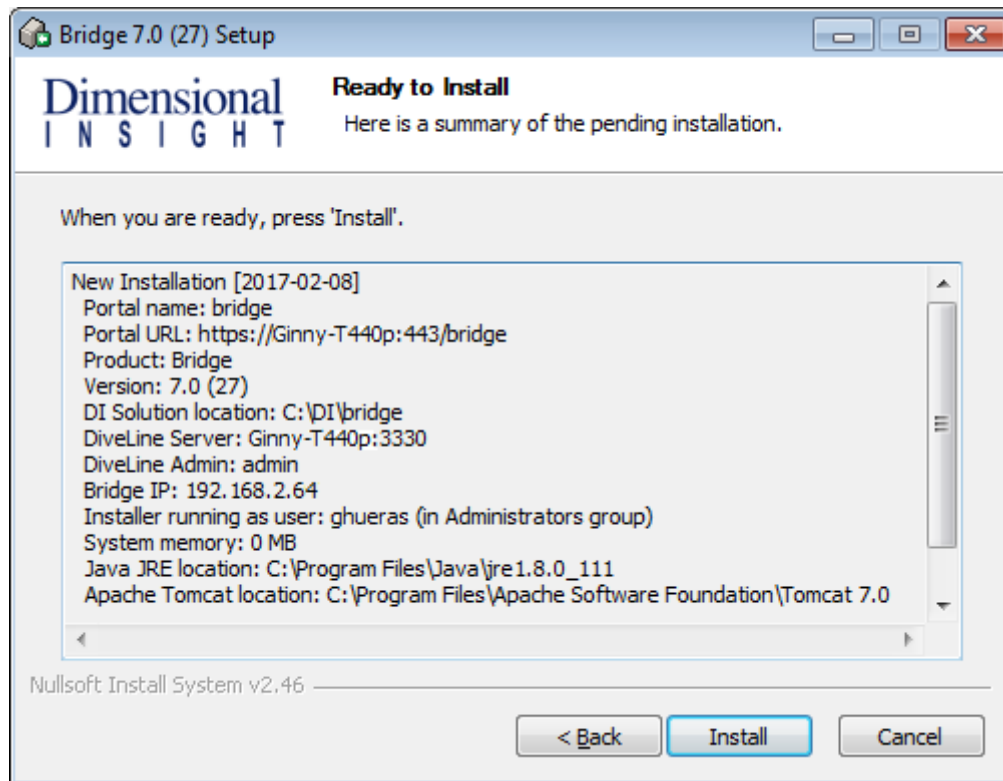
The **Installing a New Portal** dialog displays.

10. Fill in the **Portal name**.
11. Verify the **DI Solution folder**. Use the browse button to navigate the system if needed.
12. Verify the **Java** installation. Use the browse button to navigate the system if needed.
13. Verify the **Web Application Server** installation. Use the browse button to navigate the system if needed.
14. Click **Next**.



The second **Installing a New Portal** dialog displays.

15. Verify the DiveLine server and port number. Correct if needed.
16. Specify the Bridge administrator's Username and Password.
17. Click **Next**.



The **Ready to Install** dialog displays.

18. Verify the information. Use the **Back** button if needed.
19. Click **Install**.
20. Click **Finish**.

BRIDGE

Things to note:

- The default web application name is “bridge”. This is easily changed when installing.
- The Bridge application has its own section in the Windows Registry.
- The Bridge software has its own section in the Windows Start menu. From the Start menu, enter “bridge” to see a link for the **bridge Logon Page**. Click to open in your default browser.
- When multiple instances of Bridge are installed on the same Windows machine, you may want to edit Properties to display different Program labels from the Start menu.
- Multiple Bridges can be installed on a single server, or multiple servers, and can call each other. When nesting Bridges, avoid creating circular loops. That is, if Bridge A point to Bridge B, Bridge B should not point back to Bridge A.

Custom Graphics

A library of image files is delivered as part of the application. These resources are available whenever you use the browse button to configure an image file as described in **Chapter 3, Configuration Options**.

You can extend this resource to include your own set of files. After preparation, locate the graphics in the following directory:

```
di/solution/webdata/<bridge>/customizations/images/
```

The images supplied with the Bridge installation adhere to the following guidelines:

Table 1: Image Guidelines

Image	Default	Size	Notes
Button	diver.png	100 x 100px	For best results, make sure there is space around the graphic in the Image – at least 15 pixels. The portrait orientation displays 100 x100, while the landscape displays scales down to 90 x 90. The app resource color: #3ca4c6 to #1479bd, gradient; #1d83bf, solid.
Banner	none	no default	Whatever is used is scaled to a maximum height of 44 pixels. CSS property #bridge-titlebar sets background color of the banner as #5f9fe1.
Logon	logon-art.png	171 x 75px	Background color: #dfe8f6 or transparent. You can use any graphic, but if the background color of the image is #dfe8f6, it will blend with the page’s background.
About	about-art.png	282 x 241px	Background color: #ffffff Make sure the background color is white. Version text is shown just below the “Bridge” text in this image.

In general, the png format is recommended, although the Images dialog looks for png, jpg, gif, and bmp file types.

There is some flexibility in the sizes, so run tests to see how your images display. Larger images are scaled down when needed and can result in a loss of quality.

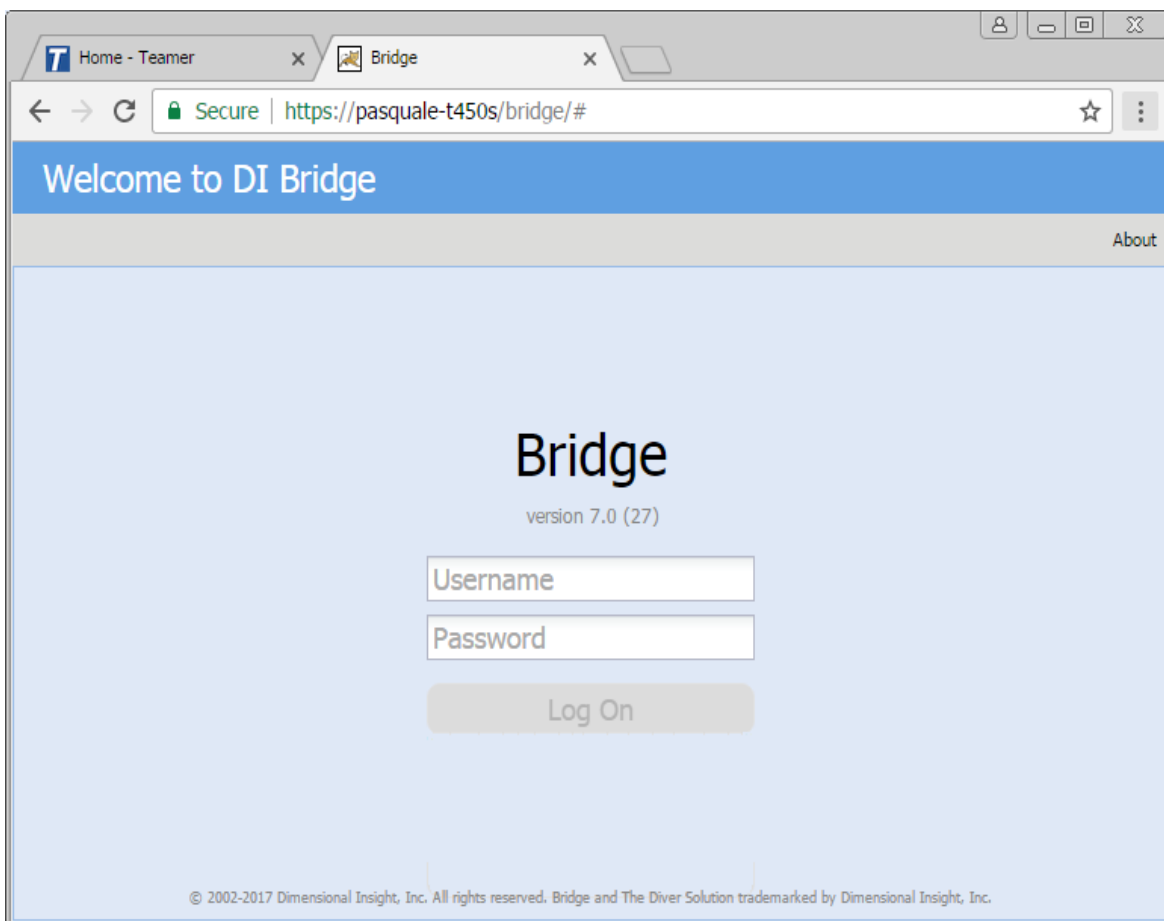
BRIDGE



Chapter 3

Configuration Options

After you install Bridge, you launch it as you would a DivePort instance. Enter the URL into your web browser, for example: `https://jsmith.dimins.com:8443/bridge/#`. A page similar to the following displays.



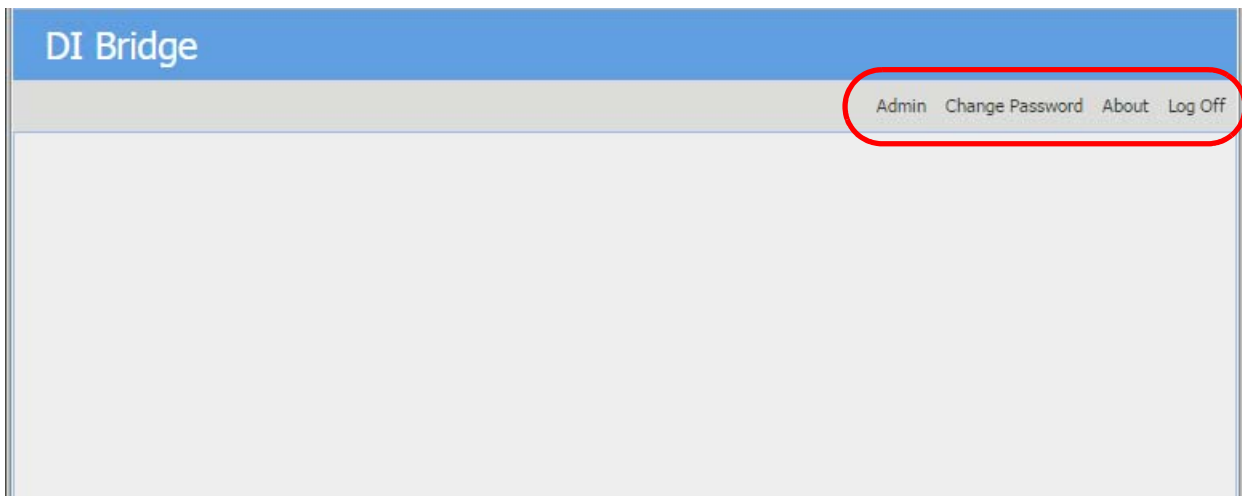
BRIDGE

Edit Dialogs

Use an Administrator account from the DiveLine where Bridge was installed and log on.

Edit Dialogs

As in a standard DivePort portal, the edit controls are located top right below the banner. Click to display the menu or dialog.



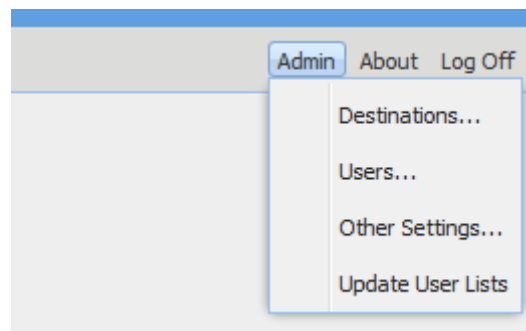
- **Admin** – leads to configuration dialogs.
- **Change Password** – prompts for a new password for the current user. If completed, the password is saved to the appropriate DiveLine.
- **About** – displays the version for Bridge and DiveLine.
- **Log Off** – signs off the Bridge portal.



If, in **Workbench > Server Settings > Users > Edit User > Security/Licensing** tab for the current user, the **User cannot change password** option has been checked, the **Change Password** control will not display, as in the following image.



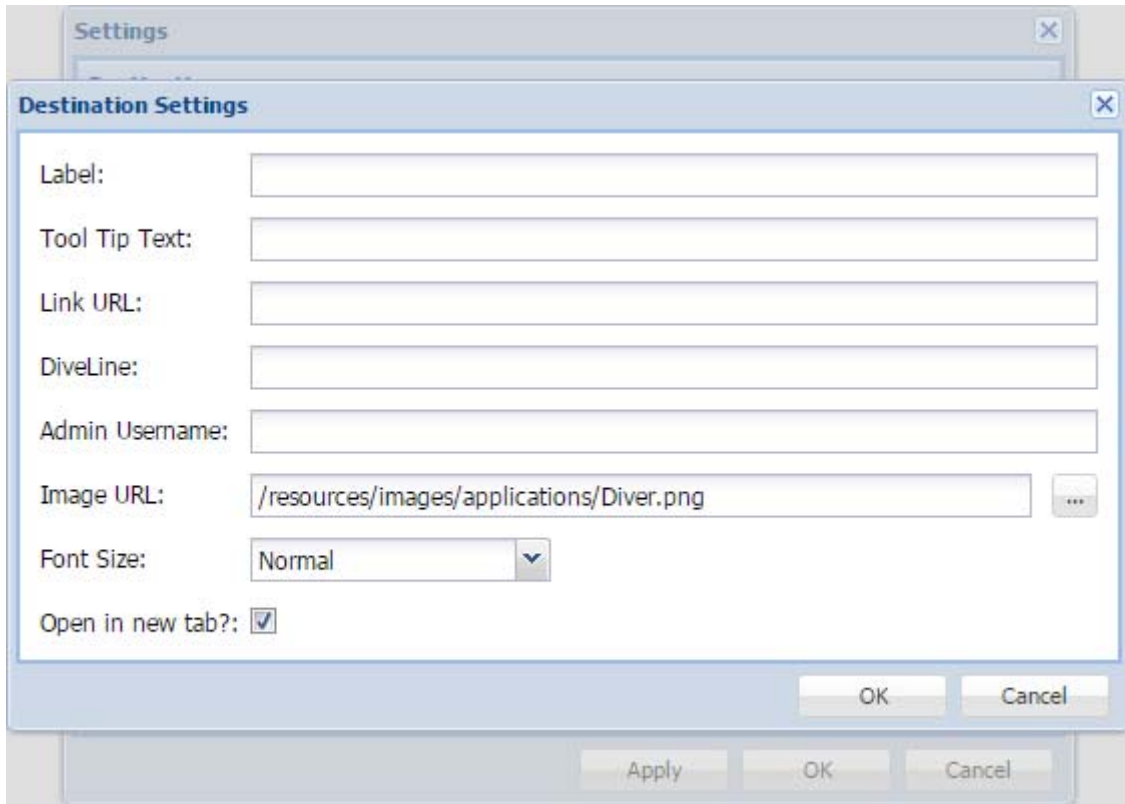
Use the **Admin** menu to get started.



- **Destinations** – use to configure target portals Bridge can access.
- **Users** – use to set additional administrators for Bridge (not DiveLine).
- **Other Settings** – use to customize buttons and banners for Bridge.
- **Update User Lists** – use to update the Bridge local user lists from the destination DiveLines without having to wait for the next time Bridge automatically refreshes its local information. If this menu item is not used, Bridge should update its copy of the destination user information every five minutes.

Configuring Destinations

Use **Admin > Destinations** to access the **Destination Settings** dialog. This is where you define connections for Bridge. Click **Add** to begin.



Fill in the attributes as needed:

- **Label** (or Short Name) – names the available site; used as a label for the button, and a label for the **Destinations** list dialog.
- **Tool Tip Text** (or Long Name) – appears as a popup tool tip when moused over by the end user.
- **Link URL** – specifies the Uniform Resource Locator (URL) or web address for a DivePort instance, possibly with a particular environment and page; or a NetDiver or other site on the Web.
- **DiveLine** – indicates the server name and port number for the target portal (e.g. student.sandbox.dimins.com:2131). This allows Bridge access to that DiveLine's user list. In addition, the target DiveLine needs to have the calling Bridge in its list of **gateway_ips**. The DiveLine attribute is required for single sign-on (SSO) to DI applications from Bridge.

If no DiveLine is specified, a secondary login displays. A secondary login also displays when there is no match on the user.

- **Admin Username** – used to control the button display for sites that use DiveLine. If a DiveLine administrator is specified for the target portal, only users in that DiveLine will see the target’s button. If no Admin Username is specified, all visitors to Bridge see the destination as an option.

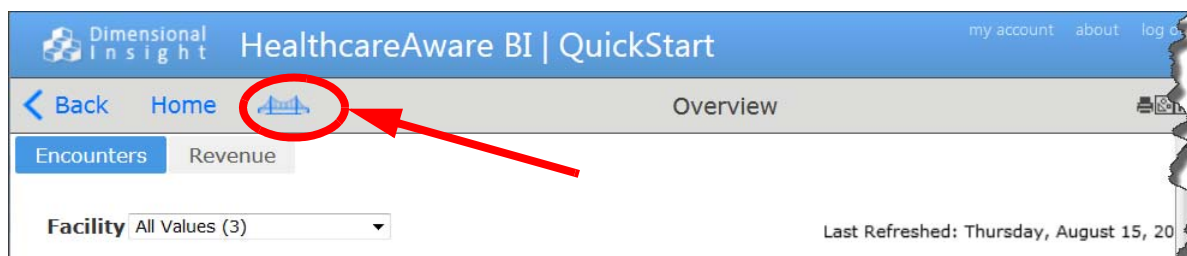


There is a time delay (e.g. five minutes) between the saving of the configuration settings and the actual application of those settings in the Bridge instance. Keep this in mind when you are trying to verify the users are seeing the appropriate buttons.

- **Image URL** – points to a graphic file for the button. The browse button opens a dialog showing thumbnails of all images that came with Bridge or were installed in the <bridge>/customizations/images directory under Bridge’s webdata directory. If no image is specified, a blank box will appear instead.
- **Font Size** – indicates Normal (17 pixels) or Small (12 pixels) for the label text.
- **Open in new tab** – indicates how the target should open in the browser. When checked, the target opens in a new browser tab. When unchecked, the target opens in the current tab.

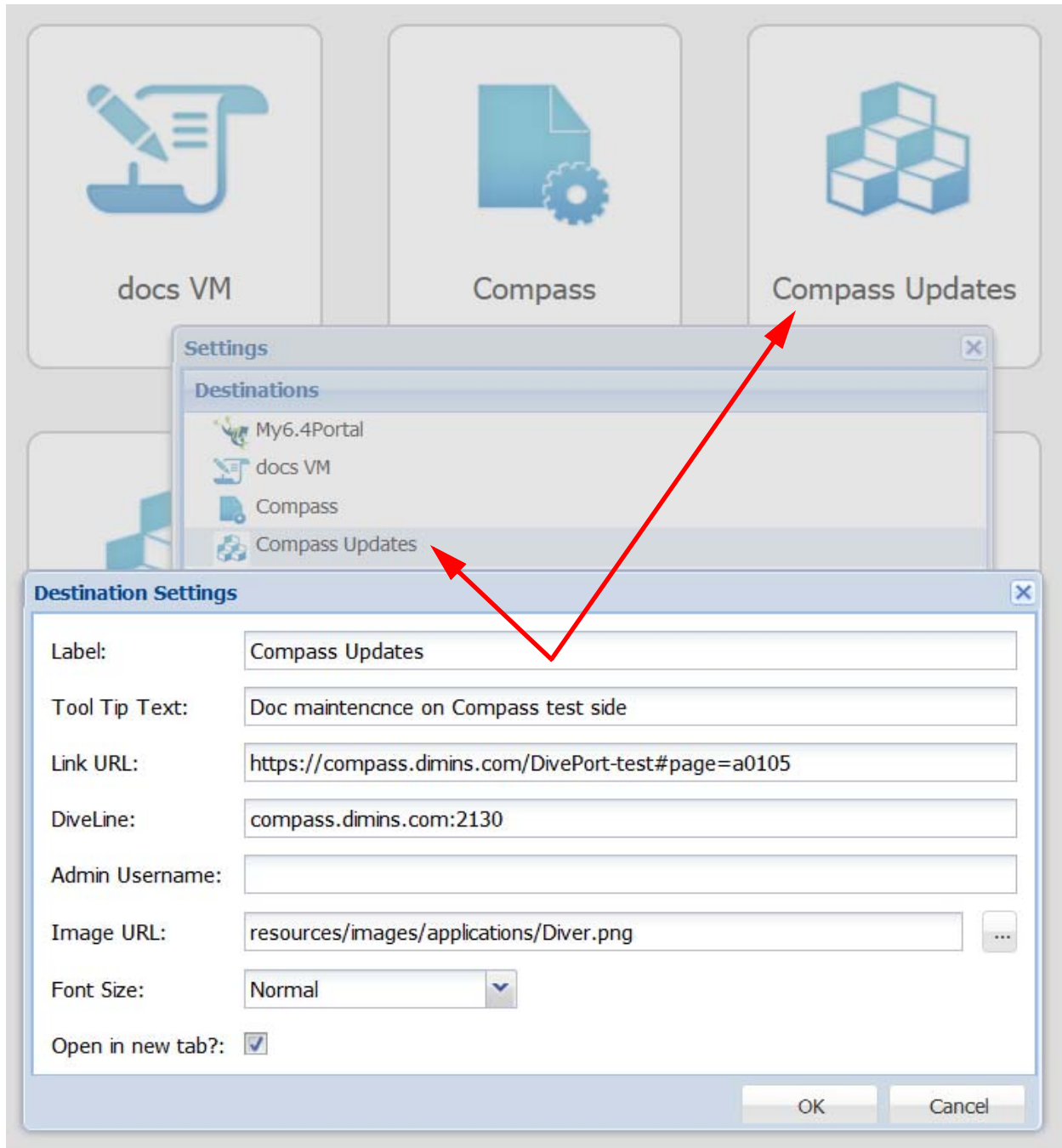
When configuring older DivePorts, take note of the fact that any DivePort or secondary Bridge opened in the same tab as the starting Bridge displays a **bridge icon** in the tool bar only if it is using the Simplified User Interface (SUI). The SUI option was first available with version 6.4. The icon is interactive, changing into a hand when selected, behaving like the Home and Back buttons.

Older DivePort portals, or current ones not using the SUI, should be configured to open in a new tab, so the end user can return to Bridge, since the bridge icon will not be available.



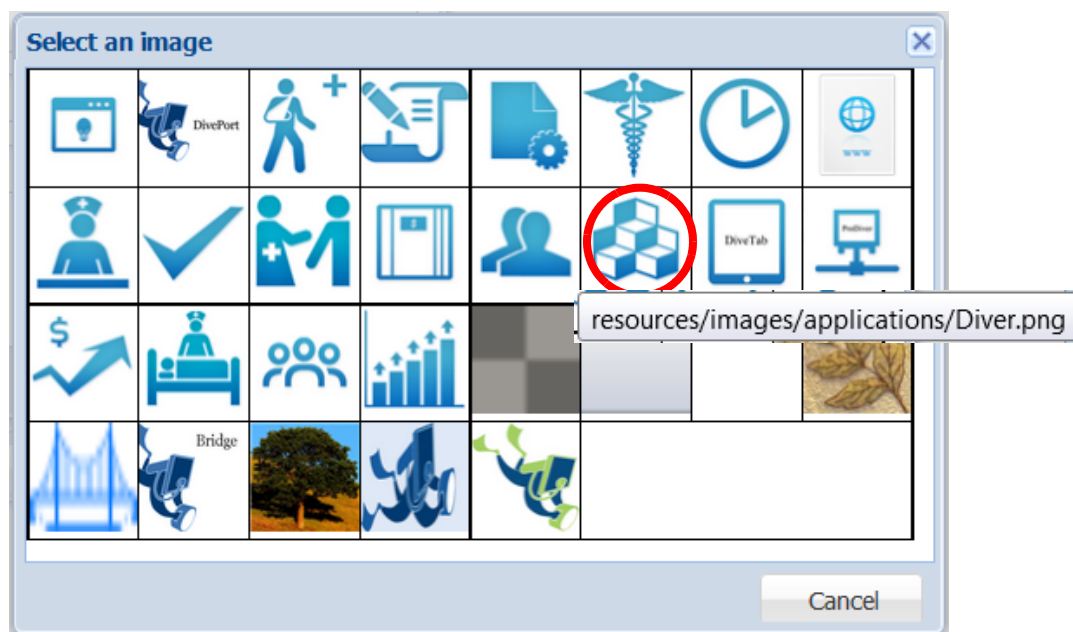
Sample Settings Edit Dialogs

The screen capture below shows a sample configuration.



Things to note in the above example:

- The **Label** (or Short Name) appears on the button and in the Destinations list dialog.
- An **Image URL** is provided and the image appears on the button.
- The target **DiveLine** is specified to support SSO. This DiveLine needs to authorize Bridge to authenticate users. This is done by listing the Bridge machine in the destination's **gateway_ips** list in its `atlcfg.cfg` file.
- If the DivePort in the **Link URL** has the user in its DiveLine, login is immediate, since the DiveLine is specified. If not, the end user will see the logon dialog for the destination site.
- No **Admin Username** is provided, so all users to this Bridge will see this destination as an option, even if they have no credentials.
- When you navigate using the browse button for the **Image URL**, the result is a relative path to an item in the `.war` file, or to an item located in the `customizations/images` directory. Contents of the `customizations/images` directory appear as part of the resources directory. For example:



The circled icon here is part of what was installed with the application.

You may also provide a full URL like:

```
https://localhost:6400/bridge/resources/images/Diver.png
```

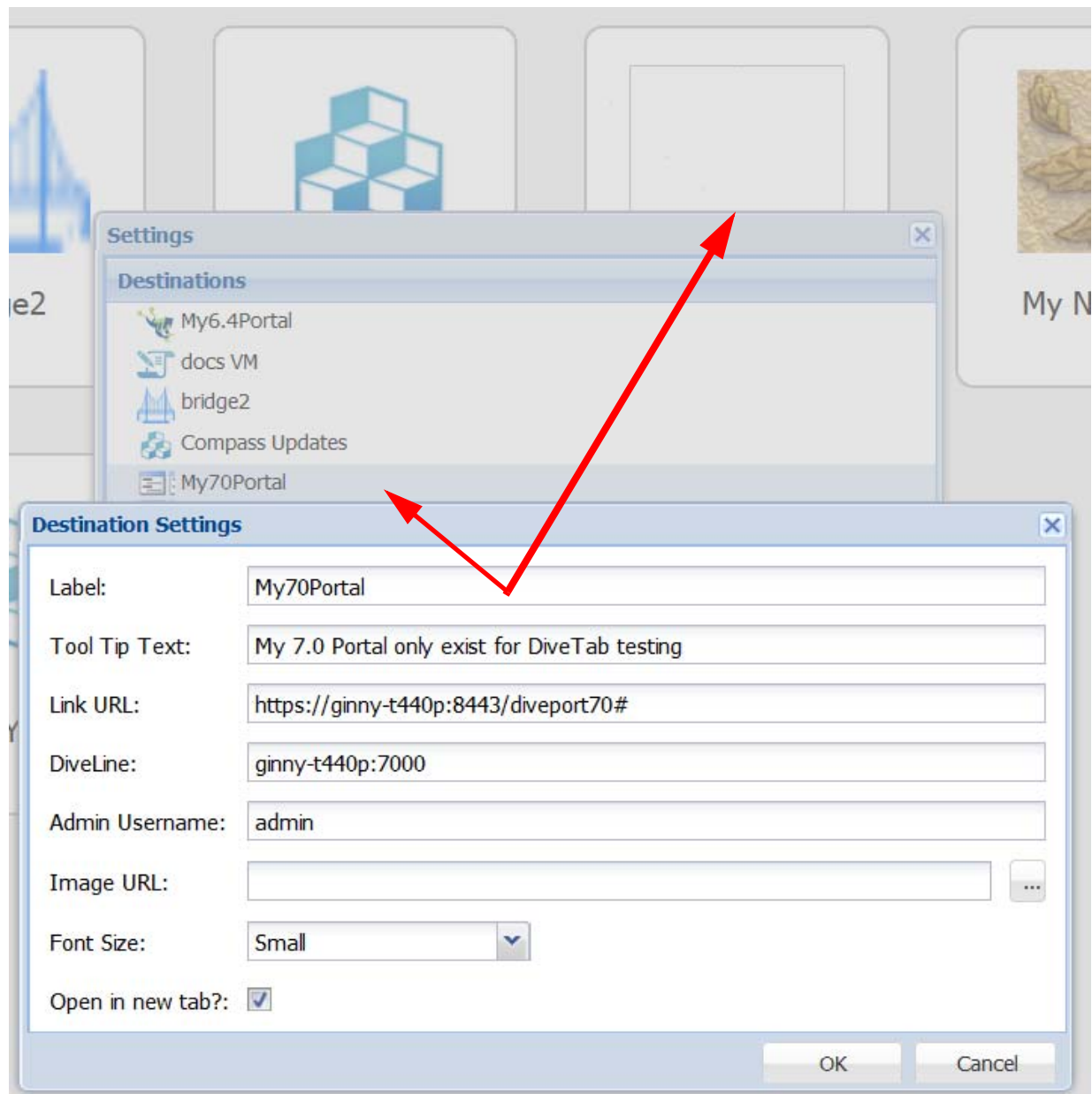
The last three images were placed in Bridge's webdata/<bridge>/customizations/images directory.



Here the relative address is: `resources/images/tree.png`.

See also **Custom Graphics on page 2-11**.

Another sample dialog is shown on the next page.



Things to note in the above example:

- No **Image URL** is specified, so a blank box appears in the button.
- Since the **Admin Username** is specified, this button will only display for users found in the target DiveLine's user list, provided that the target **DiveLine** authorized Bridge to authenticate users. This is done by listing the calling Bridge's IP address in the destination's **gateway_ips** list.

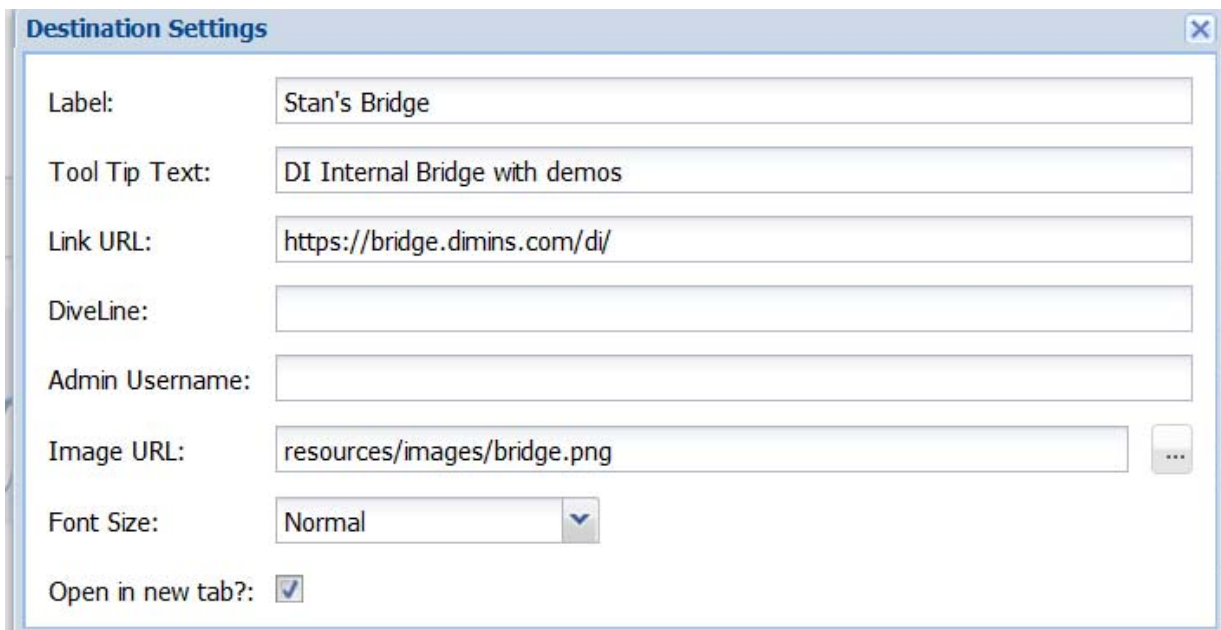
Sample configuration to a web address other than DI software:



The screenshot shows a 'Destination Settings' dialog box with the following fields:

- Label: BBC News
- Tool Tip Text: News of the World on the BBC
- Link URL: <http://bbc.co.uk>
- DiveLine: (empty)
- Admin Username: (empty)
- Image URL: resources/images/applications/WebPage.png
- Font Size: Normal
- Open in new tab?:

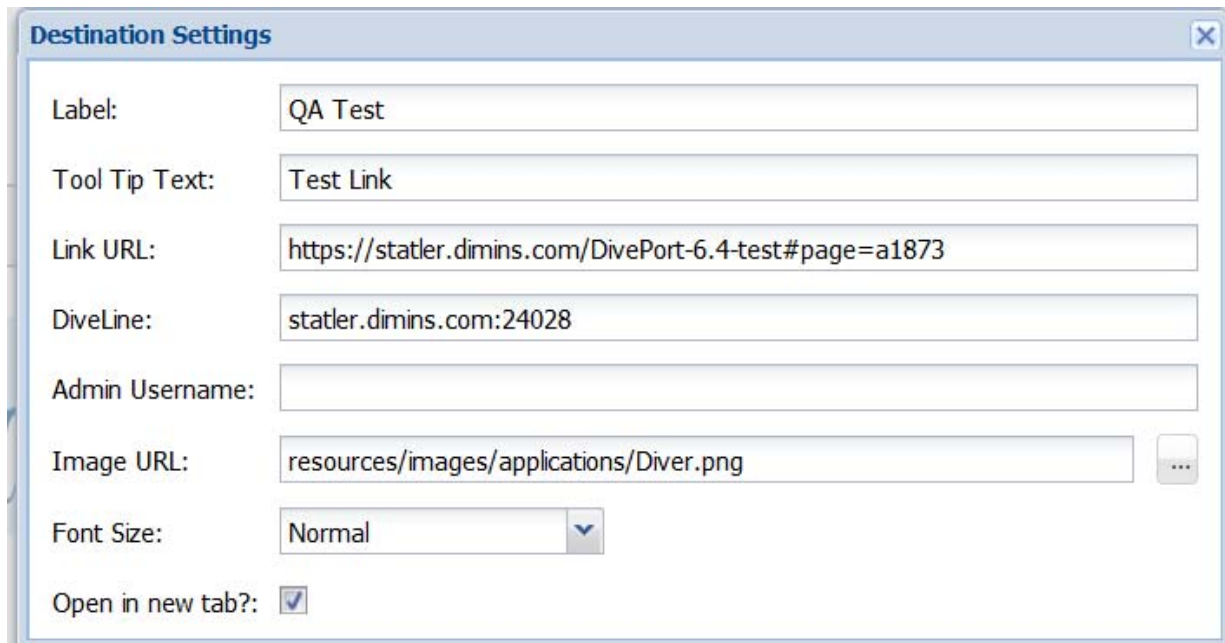
Sample configuration for a DivePort within the local area network:



The screenshot shows a 'Destination Settings' dialog box with the following fields:

- Label: Stan's Bridge
- Tool Tip Text: DI Internal Bridge with demos
- Link URL: <https://bridge.dimins.com/di/>
- DiveLine: (empty)
- Admin Username: (empty)
- Image URL: resources/images/bridge.png
- Font Size: Normal
- Open in new tab?:

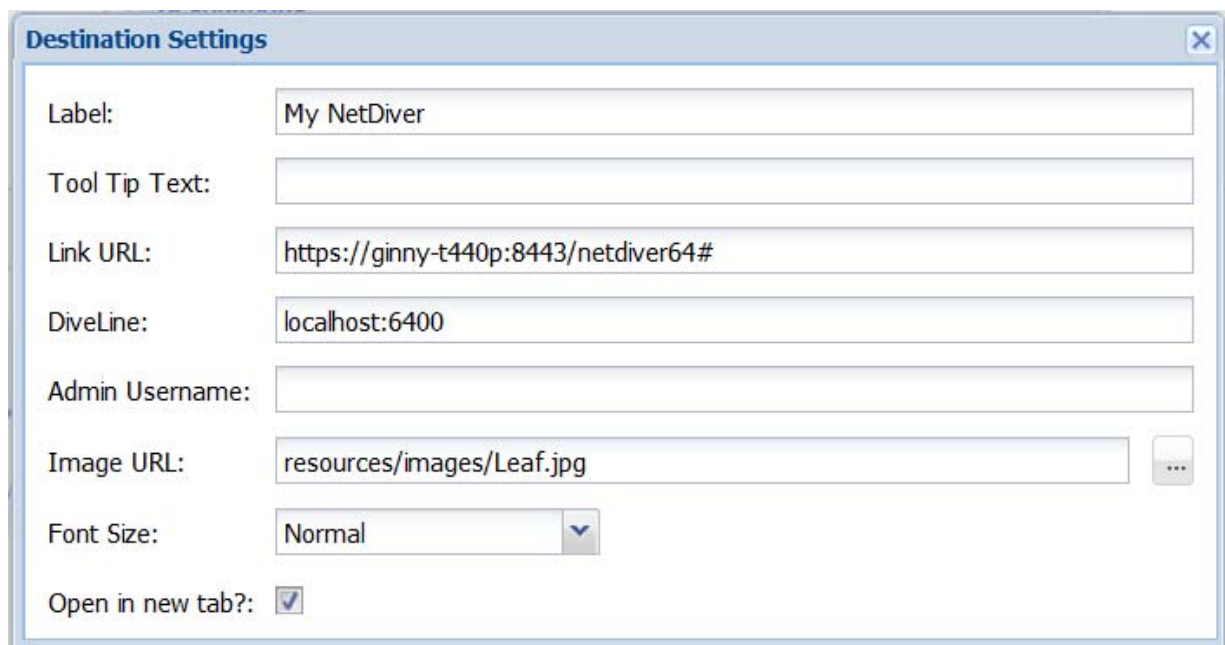
Sample configuration to a specific page, on a different server:



The screenshot shows a dialog box titled "Destination Settings" with a close button (X) in the top right corner. The dialog contains the following fields and options:

- Label:** QA Test
- Tool Tip Text:** Test Link
- Link URL:** <https://statler.dimins.com/DivePort-6.4-test#page=a1873>
- DiveLine:** statler.dimins.com:24028
- Admin Username:** (empty field)
- Image URL:** resources/images/applications/Diver.png (with a browse button)
- Font Size:** Normal (with a dropdown arrow)
- Open in new tab?:**

Sample configuration for a local NetDiver:

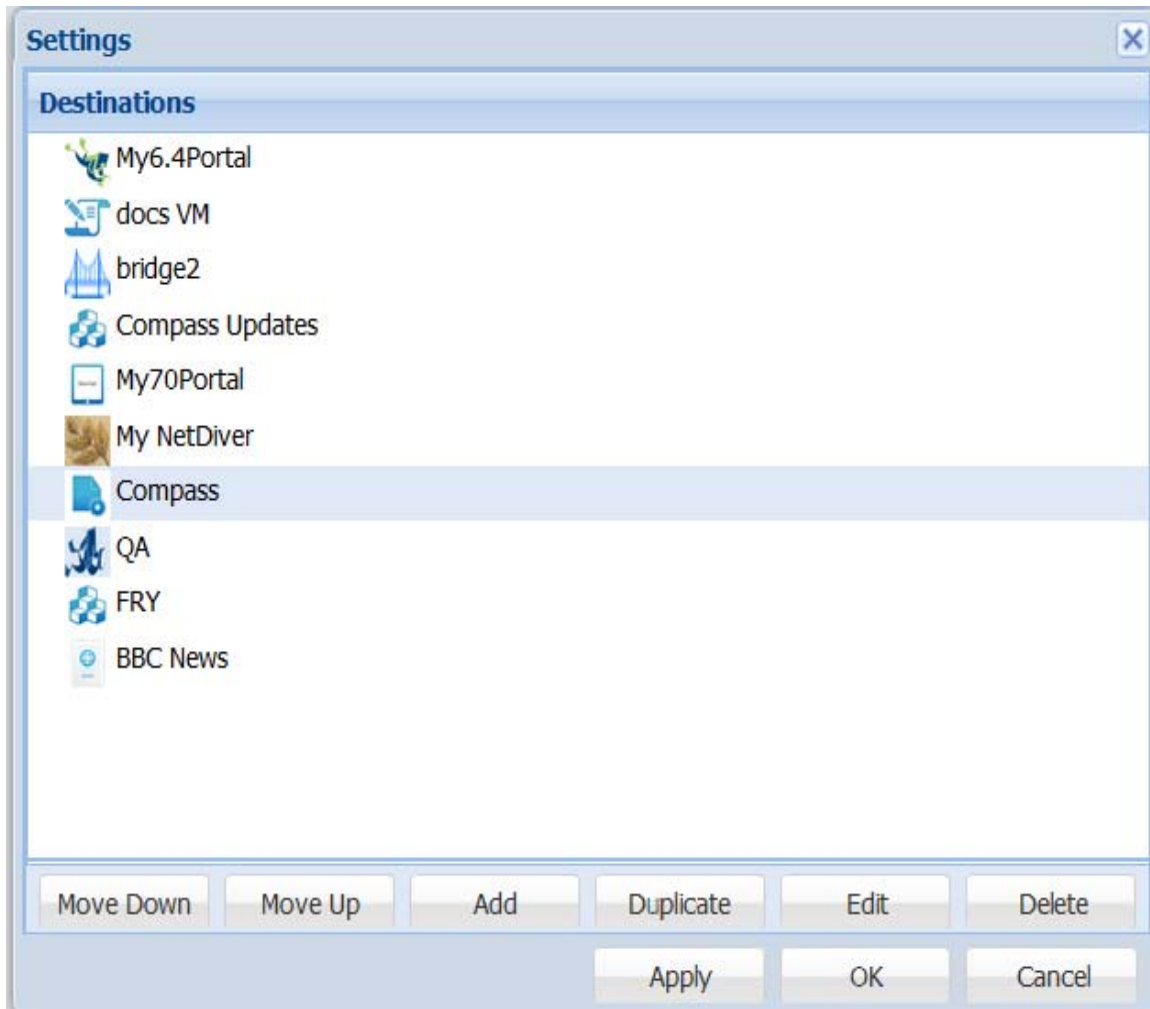


The screenshot shows a dialog box titled "Destination Settings" with a close button (X) in the top right corner. The dialog contains the following fields and options:

- Label:** My NetDiver
- Tool Tip Text:** (empty field)
- Link URL:** <https://ginny-t440p:8443/netdiver64#>
- DiveLine:** localhost:6400
- Admin Username:** (empty field)
- Image URL:** resources/images/Leaf.jpg (with a browse button)
- Font Size:** Normal (with a dropdown arrow)
- Open in new tab?:**

Reorganizing Buttons

Use **Admin > Destinations** to see the **Settings** dialog with the currently defined buttons. For example:



To reorder buttons:

1. Select a destination.
2. Click **Move Down** or **Move Up**.
3. Repeat as needed.
4. Click **OK** to see the new order presented in the portal.

Making a Copy of a Destination

Use **Admin > Destinations** to make a copy of, or duplicate, an existing destination within the same Bridge. You will, however, still need to change the Link URL to be unique before committing the new destination. In the **Destination Settings** dialog, do the following:

1. Select a destination.
2. Click **Duplicate**.
3. Change the **Link URL**. This cannot be the same as for the existing destination, as the Link URL needs to be unique.
4. Make additional changes, as needed.
5. Click **OK** to see the duplicate destination listed under **Destinations**.

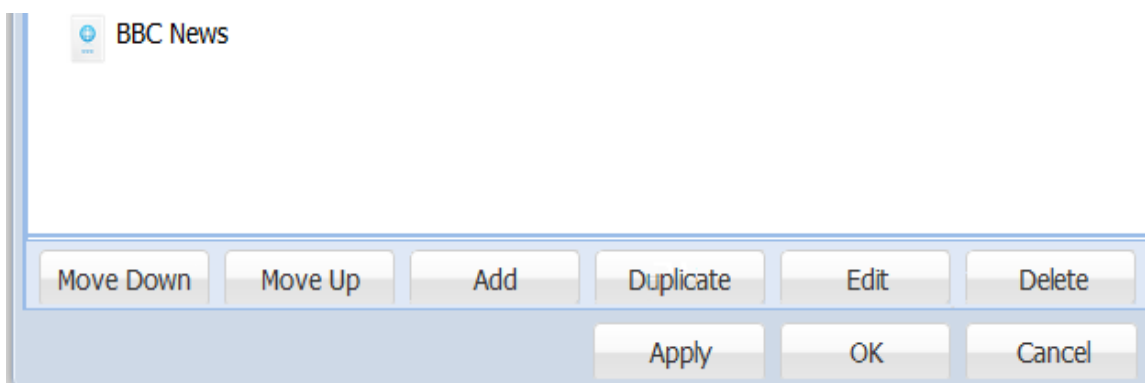
Editing a Destination

To edit the settings for a destination, click **Edit** in the **Destination Settings** dialog, or simply double-click the destination you want to edit. This will open the **Destination Settings** dialog for that specific destination.

Deleting a Destination

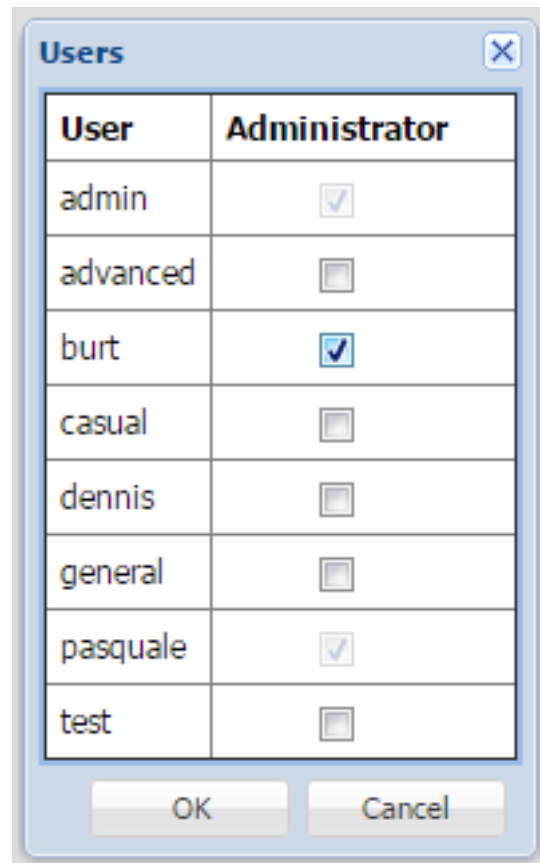
Use **Admin > Destinations** to delete an existing destination. In the **Destination Settings** dialog, do the following:

1. Select a destination.
2. Click **Delete**.
3. The selected destination will be removed.



Configuring Users

Use **Admin > Users** to see all users for the Bridge instance listed in the **Users** dialog. This dialog is used to make someone an administrator for Bridge.



- **User** – This is a list of users from the DiveLine hosting Bridge.
- **Administrator** – A check mark indicates that the user can perform configuration tasks for Bridge. This includes adding and deleting sites and customizing the buttons.

Note that the administrative user used to access Bridge is listed, but the toggle box is disabled. In this example, the current user is “admin”.

Also note that:

- All DiveLine administrators become Bridge administrators by default.
- Not all Bridge administrators are DiveLine administrators.



By default, the list of users is sorted alphabetically in ascending order by User. By clicking on either the User or the Administrator column, the list will be sorted on that column, reversing the sort order from ascending to descending or vice versa. The sorting is case-insensitive.

Configuring Miscellaneous Settings

Use **Admin > Other Settings** to access the **Other Settings** dialog. This is where you can customize the general appearance of Bridge's landing page and subpages.

The screenshot shows the 'Other Settings' dialog box with the following configuration:

- Logon Text: Bridge
- Show logon text?:
- Title: Welcome to DI Bridge
- Orientation: Portrait
- Destination Button Size: Normal
- Banner Image: [Browse]
- Logon Image: [Browse]
- About Image: [Browse]
- Update user list from destinations?:
- Skin: Default

- **Logon Text** – specifies a string for the browser tab.
- **Show logon text?** – indicates that the **Logon Text** displays in the middle of the logon page.
- **Title** – specifies the name to appear in the banner area of the landing page.
- **Orientation** – allows you to select Portrait or Landscape for all the buttons. The image is smaller in Landscape (90x90) than in Portrait (100x100) orientation, but more text per line fits in Landscape.

- **Destination Button Size** – lets you select Normal or Large. Images are scaled as follows:
 - Normal/Portrait 100 x 100 pixels
 - Normal/Landscape 90 x 90 pixels
 - Large/Portrait 200 x 200 pixels
 - Large/Landscape 180 x 180 pixels
- **Banner Image** – specifies the path to the graphic file to be used for the page heading. There is no default. Whatever is used is scaled to a maximum height of 44 pixels to avoid impacting the title bar layout.
- **Logon Image** – specifies the path to a graphic file to be used for the logon page. There is no default. As for all other images, the browse button opens a dialog showing thumbnails of all images that came with Bridge or were installed in the `<bridge>/customizations/images` directory under Bridge's webdata directory.
- **About Image** – specifies the path to a custom graphic file to be used for the About dialog if you want to customize it. The default is `resources/images/about-art.png`, which is 282 x 241 pixels. The About Dialog's layout is set up to show version text just below the "Bridge" text in the image.
- **Update user list from destinations?** – when this option is checked, each time it updates its user information from its destinations, Bridge will add to its own DiveLine any user names that exist in any destination but do not exist in the Bridge's DiveLine. No other information is added besides the user name. The option defaults to unchecked. Note that this option is disabled when the Bridge DiveLine uses "OWN" authentication.
- **Skin** – lists skins included with Bridge and skins in the `webdata/bridge/customizations/skins` directory. Changing the skin and clicking OK will reload the page, causing the new skin to take effect.

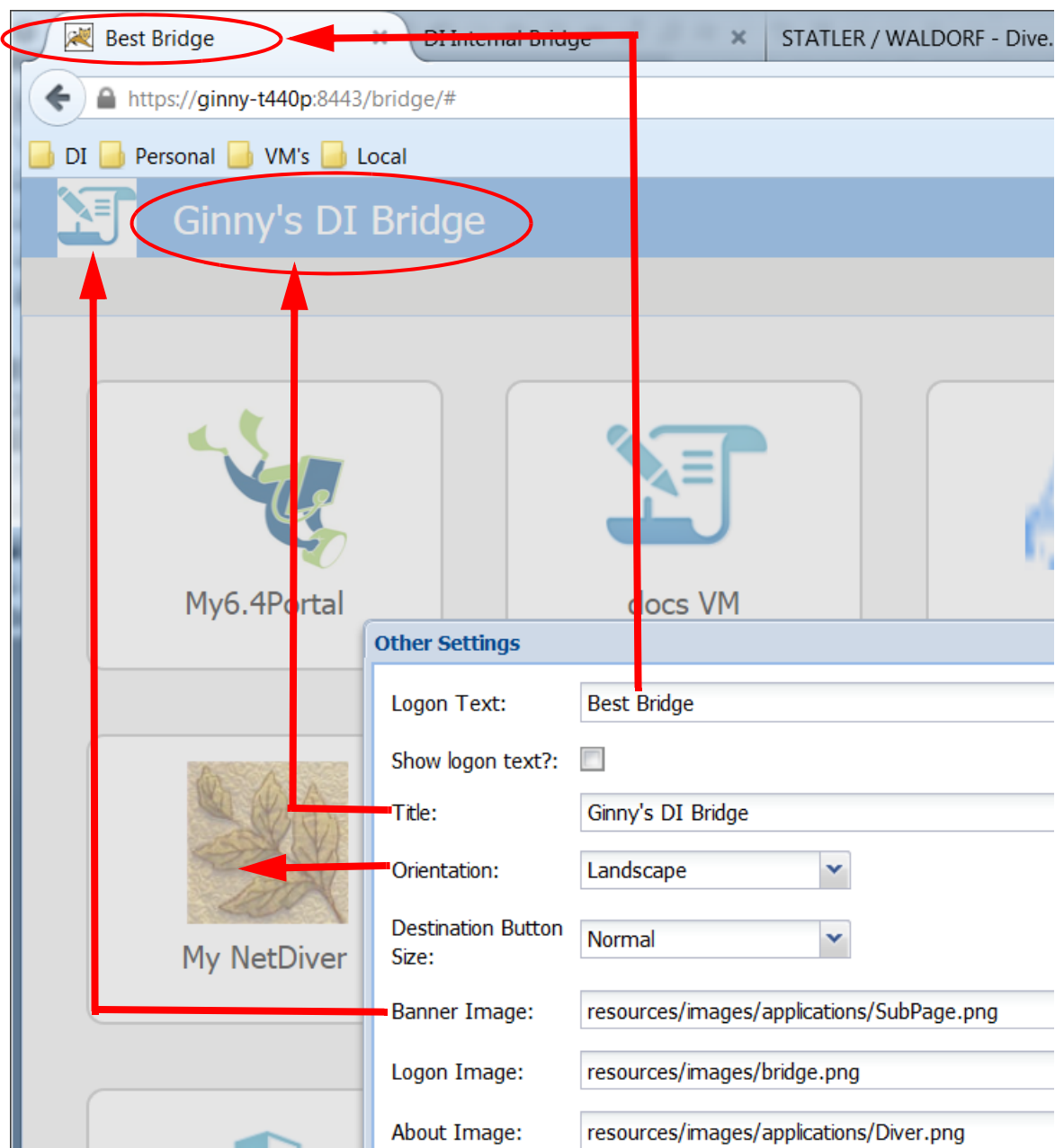


Although Bridge uses some of the same skin entries as DivePort, it also uses some different skin entries, due to the differences between the user interfaces.

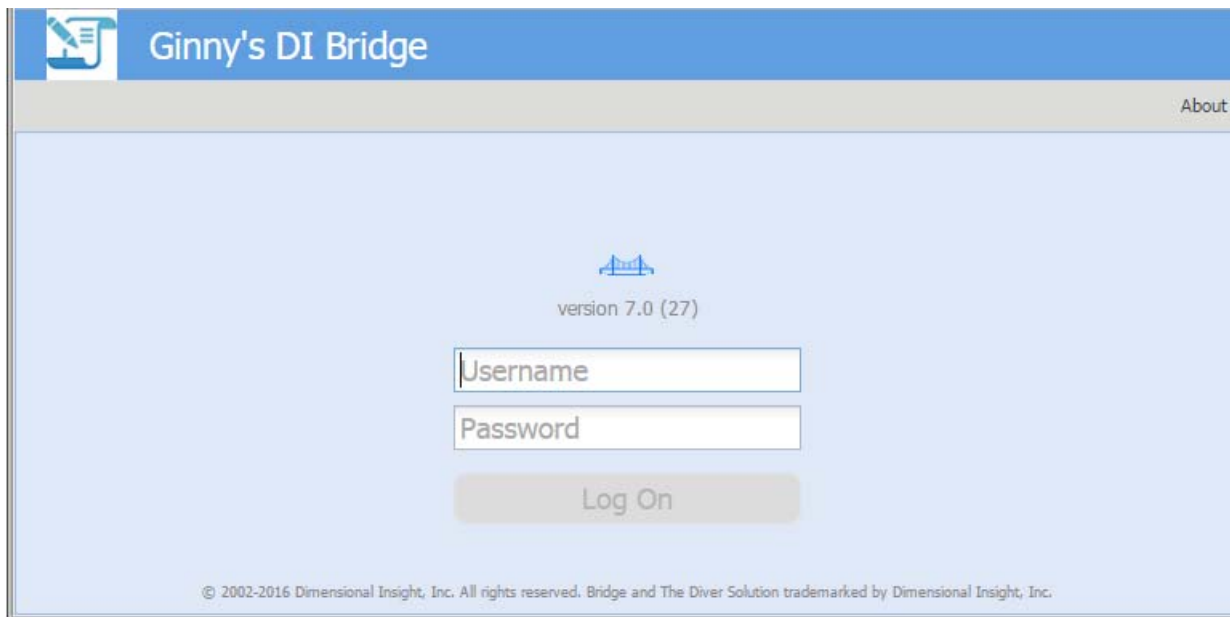
The **Reset to Defaults** restores the out-of-the-box settings.

An example is shown on the next page.

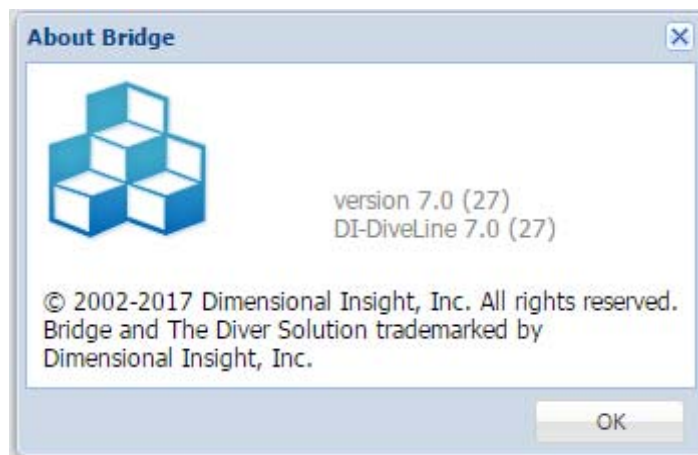
The **Other Settings** dialog below displays the following selections, among others: **Logon Text**: Best Bridge; **Title**: Ginny's DI Bridge; **Orientation**: Landscape; **Destination Button Size**: Normal; **Banner Image**: /resources/images/applications/SubPage.png. The Bridge screen shows how these selections are applied.



Furthermore, as seen below, the Bridge logon page does not display the **Logon Text** in the middle because the **Show logon text?** option was unchecked. It also shows **Title:** Ginny's DI Bridge, and **Logon Image:** /resources/images/bridge.png.

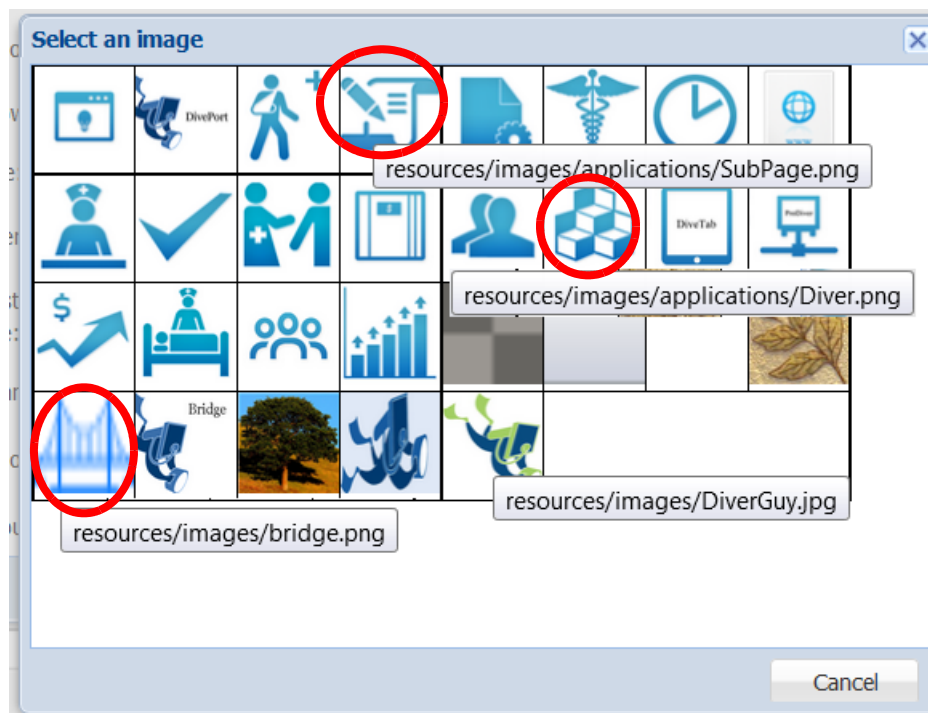


Finally, the **About Bridge** popup is displayed as follows, with **About Image:** /resources/images/applications/Diver.png.

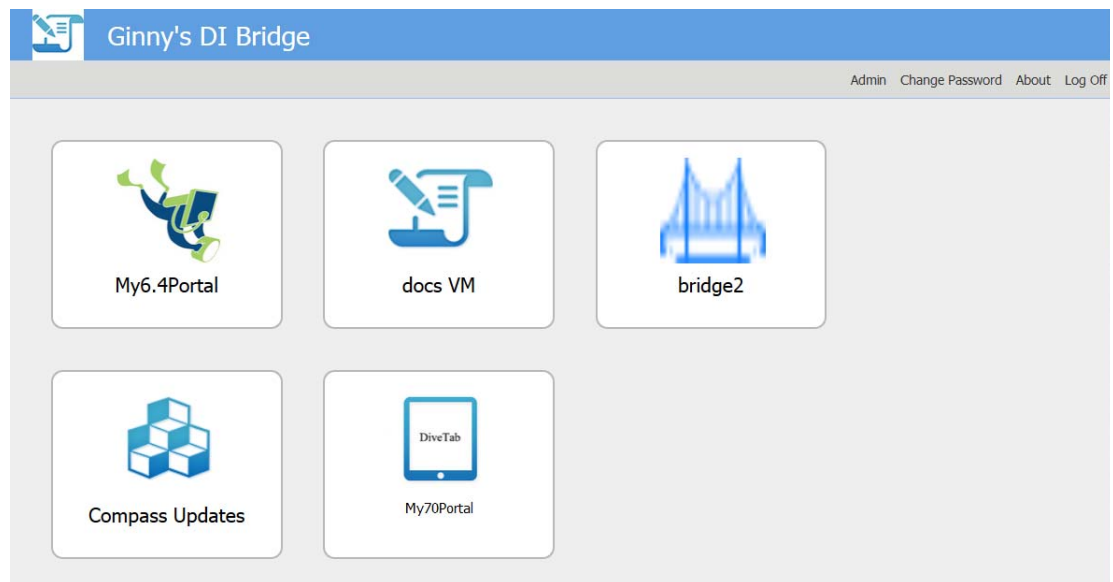
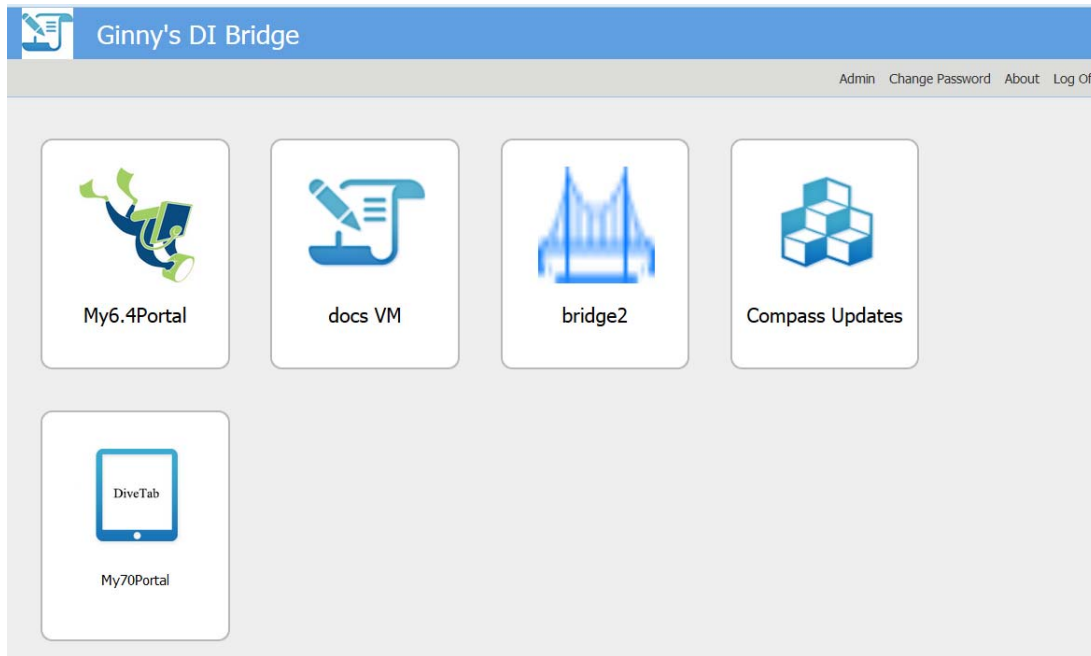


The **Select an Image** dialog below shows the image selections that were made in the above example:

- **Banner Image** – /resources/images/applications/SubPage.png
- **Logon Image** – /resources/images/bridge.png
- **About Image** – /resources/images/applications/Diver.png



The following screen captures show Portrait and Landscape orientation for the same set of buttons.



User Access

Once you have configured Bridge buttons for your users, you can share the URL. Things to note:

- Only Administrative users will see the **Admin** button below the banner.
- Any user can change their password for the DiveLine hosting Bridge, if DiveLine allows it. After logging in to Bridge they can **Change Password** in the command bar, provided that the **User cannot change password** option has not been checked in the DI-DiveLine Config **User Properties** dialog's **Security** tab for that user.
- A user required to change their password on first login, either to Bridge or to a linked DivePort or NetDiver, will see a **Change Password** dialog. If they cancel, they will be logged out. If they successfully change the password, they will be logged in and their password on DiveLine will be updated.

BRIDGE

Index



A

- About dialog 3-2
- About Image 3-16, 3-18, 3-19
- Admin menu 1-4, 3-2, 3-3, 3-21
 - Destinations 3-3, 3-12, 3-13
 - Other Settings 3-3, 3-15, 3-17
 - Update User Lists 3-3
 - Users 3-3, 3-14
- Admin Username 3-5, 3-7, 3-9
- Administrator 3-14
- atlcfg.cfg 1-4, 3-7

B

- Banner Image 3-16, 3-17, 3-19
- Bridge menu
 - About 3-2
 - Admin 3-2
 - Change Password 3-2
 - Logoff 3-2

C

- Change Password dialog 3-2, 3-21
- Configuring users
 - Administrator 3-14
 - User 3-14
- copying a destination 3-13

D

- Delete 3-13
- deleting a destination 3-13
- Destination Button Size 3-16, 3-17
- Destination Settings
 - Admin Username 3-5
 - DiveLine 3-4
 - Font Size 3-5
 - Image URL 3-5, 3-7
 - Label 3-4
 - Link URL 3-4, 3-13
 - Open in new tab 3-5
 - Tool Tip Text 3-4
- Destinations 3-3, 3-12, 3-13
- DI Download 1-6
- DiveLine target 3-4, 3-7, 3-9
- DNS name 1-4
- Duplicate 3-13
- duplicating a destination 3-13

E

- editing a destination 3-13
- encryption 1-5

F

- Font Size 3-5

G

gateway_ips 1-4, 1-5, 3-4, 3-7, 3-9

I

Image URL 3-5, 3-7, 3-9

IP address 1-4

L

Label 3-4, 3-7

Link URL 3-4, 3-7, 3-13

Log Off 3-2

Logon Image 3-16, 3-18, 3-19

Logon Text 3-15, 3-17

Long Name 3-4

M

making a copy of a destination 3-13

Move Down 3-12

Move Up 3-12

multiple Bridges 2-10

N

nesting Bridges 2-10

NetDiver 3-11

O

Open in new tab 3-5

Orientation 3-15, 3-17

orientation example 3-20

Other Settings 3-3, 3-15, 3-17

 About Image 3-16, 3-18, 3-19

 Banner Image 3-16, 3-17, 3-19

 Destination Button Size 3-16, 3-17

 Logon Image 3-16, 3-18, 3-19

 Logon Text 3-15, 3-17

Orientation 3-15, 3-17

Reset to Defaults 3-16

Show logon text? 3-15, 3-18

Skin 3-16

Title 3-15, 3-17, 3-18

R

reordering buttons 3-12

Reset to Defaults 3-16

resources directory 3-7

S

sample destination settings 3-6

Select an Image dialog 3-19

Short Name 3-4, 3-7

Show logon text? 3-15, 3-18

Simplified User Interface 3-5

single sign-on 1-1, 1-3, 1-4, 3-4, 3-7

Skin 3-16

SUI 3-5

Support

 how to reach 1-6

T

Title 3-15, 3-17, 3-18

Tool Tip Text 3-4

U

Update user list from destinations? 3-16

Update User Lists 3-3

User 3-14

user list 1-3, 1-4, 1-5, 2-2, 3-3, 3-4, 3-9

Users 3-3, 3-14

W

Windows Registry 2-10