

# RepliWeb

## Web UI Setup and Customization Guide

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RepliWeb, Inc., 6441 Lyons Road, Coconut Creek, FL 33073

**Tel:** (954) 946-2274, **Fax:** (954) 337-6424

E-mail: [info@repliweb.com](mailto:info@repliweb.com), Support: <http://support.repliweb.com>

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**Please direct correspondence or inquiries to:**

RepliWeb, Inc.  
6441 Lyons Road  
Coconut Creek  
FL 33073

Phone: (954) 946-2274  
Fax: (954) 337-6424  
E-Mail: [info@repliweb.com](mailto:info@repliweb.com),  
Support: <http://support.repliweb.com>  
Web Site: <http://www.repliweb.com/>

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# 1. Introduction

RepliWeb's Web UI is a web-based user interface enabling R-1 / ROSS users to monitor and administer jobs and activities of the Center they are connected to. For more information about using Web UI, refer to the *R-1 Web UI Guide* or *ROSS Web UI Guide*.

The user interface runs as CGI scripts that are compatible with any web servers that support CGI execution.

## 2. Supported Browsers

Browser	Version
Internet Explorer	6.0, 7.0 and 8.0
Firefox	2.0 and above
Safari	3.1.2 and above
Chrome	8.0 and above

## 3. Requirements

### Client Side

- **Browser** – DOM compatible, JavaScript enabled browser (Microsoft IE, Netscape Gecko, FireFox, etc.)

### Server Side

- **Web server** – Read, Write, Execute permissions, enabled CGI support (IIS, Apache, etc.). For more information, refer to the Web UI Setup section.
- **RepliWeb application (R-1 / ROSS)**
  - Using a **Single Center Web UI**, the web server needs to be installed on the Center machine.
  - Using a **Multi-Center Web UI**, the web server can be installed on one of the Centers only or on a Console machine. Other Centers connected via the Multi-Center Web UI do not need a web server installation.

## 4. Setting up Web UI

Use this section to manually set up Web UI using IIS (versions 5, 6, 7, 7.5) or Apache. Use the required procedure in this section to modify, change or replace your configuration setup without re-installation of the RepliWeb application (R-1 / ROSS).

### Microsoft IIS for Windows XP/Server 2000/3/8

**NOTE:** If you are using Windows Server 2000/2003/2008 or Microsoft XP, perform this procedure before configuring IIS versions 5, 6, 7, or 7.5.

To configure IIS 7 or 7.5 using Windows Vista, refer to the [Microsoft IIS for Windows Vista](#) section.

#### To set up Microsoft IIS:

1. Start the Microsoft IIS Internet Services Manager by browsing to **Start \ Control Panel \ Administrative Tools**, and then **Internet Services Manager**.
2. Right click the web site from which Web UI should run (on the appropriate Web Server machine), select **New**, and then **Virtual Directory**.

**NOTE:** In IIS 7 or 7.5, Web UI can be created as a new web site or a virtual directory.

3. Define the name of the virtual directory or web site. For example, "**R1WebUI**".
4. Put `~\R1\WebUI` (for R-1) or `~\ROSS\WebUI` (for ROSS) as the content directory where `~` is the base installation directory.

By default, the base installation directory is `C:\Program Files\RepliWeb`

**To set up Web UI**, refer to the relevant IIS section below.

## Configuring IIS 5 for R-1 Web UI

**NOTE:** Before performing this procedure, make sure to perform steps 1-4 in the [Microsoft IIS](#) section.

### To set up IIS 5:

1. Under **Access Permissions**, select **Read**, **Write** and **Execute**.
2. Click **Next**.
3. Click **Finish**.

**To access Web UI**, point a web browser to the new virtual directory:  
For example: [http://internal\\_server/R1WebUI/start.htm](http://internal_server/R1WebUI/start.htm)

## Configuring IIS 6 for Web UI

**NOTE:** Before performing this procedure, make sure to perform steps 1-4 in the [Microsoft IIS](#) section for both R-1 and ROSS, and steps 1-3 in the [IIS 5](#) section for R-1. By default, all unknown CGIs are prohibited from running.

### To set up IIS 6:

1. In the left pane, under the server's node, in the **Web Service Extensions** directory, change the **CGI Extensions** status to **Allow**.

**NOTE:** You can limit access to R-1 or ROSS CGIs only by creating an entry for all CGI files under `~\r1\Cgi-bin\*.cgi` or `~\ross\Cgi-bin\*.cgi`, respectively.

2. Using Windows Explorer, browse to `~\R1\WebUI` (for R-1) or `~\ROSS\WebUI` (for ROSS).
3. Right click this directory, select **Properties**, and then **Security**.
4. In **Group or user name**, select **Users**, and add the **Write** permission.

**To access Web UI**, point a web browser to the new site/virtual directory:  
For example: [http://internal\\_server/R1WebUI/start.htm](http://internal_server/R1WebUI/start.htm)

## Configuring IIS 7 or 7.5 for Web UI

**NOTE:** Before performing this procedure, make sure to perform steps 1-4 in the [Microsoft IIS](#) section.

### To set up IIS 7 or 7.5:

1. From the left pane of the **Internet Information Services (IIS) Manager**, select your “Home” computer name. For example, “James1 Home”.
2. Click the **ISAPI and CGI Restriction** icon in the IIS section.
3. Add all 10 .cgi files located under ~\R1\WebUI\Cgi-Bin (for R-1) or under ~\ROSS\WebUI\Cgi-Bin (for ROSS), and select the **Allow extension path to execute** checkbox for each file inserted.
4. On the appropriate Web Server machine, right click the appropriate WebUI web site or virtual directory (**R1WebUI** or **ROSSWebUI**), as defined in step 3 of the [Microsoft IIS](#) section.
5. In **Sites**, right click the web site where Web UI should run (on the appropriate Web Server machine).
6. Click the **Handler Mapping** icon.
7. In the **Action** menu, select **Edit Feature Permissions**.
8. Select the **Execute** checkbox.
9. From the **Handler Mapping** menu, select **CGI-exe**, click **Edit**.
10. Set the **Request** path to \*.cgi only.

**To access Web UI**, point a web browser to the new site/virtual directory:  
For example: http://internal\_server/R1WebUI/start.htm

## Microsoft IIS for Windows Vista

This section describes how to set up Web UI in a Windows Vista environment.

### Configuring IIS 7 or 7.5 for Web UI

#### To set up IIS 7 or 7.5 using Windows Vista:

1. Make sure the **CGI** feature is installed:

- a. In the **Control Panel**, open **Programs and Features** and click the **Turn Windows features on or off** link in the left pane.  
  
The **Windows Features** dialog box opens.
  - b. Browse to **Internet Information Services \ World Wide Web Services \ Application Development Features**, and select the **CGI** checkbox if it is not already selected.
  - c. Click the **OK** button.
2. Start the **Internet Information Services (IIS) Manager** by browsing to **Start \ Control Panel \ Administrative Tools**, and then **Internet Information Services (IIS) Manager**.
  3. Right click the web site from which Web UI should run (on the appropriate Web Server machine), and select **Add Virtual Directory**.
  4. Define the name of the virtual directory or web site. For example, "R1WebUI".
  5. Use ~\R1\WebUI (for R-1) or ~\ROSS\WebUI (for ROSS) as the content directory where ~ is the base installation directory.

By default, the base installation directory is C:\Program Files\RepliWeb

6. From the left pane of the **Internet Information Services (IIS) Manager** screen, select the "**Home**" computer name.  
  
For example, "James1VISTA Home".
7. Right-click the **ISAPI and CGI Restriction** icon in the IIS section and select the **Open Feature** option from the drop-down menu.
8. Click the **Edit Feature Settings** link in the right-hand **Actions** pane.
9. From the **Edit ISAPI and CGI Restriction** dialog box, select the **Allow unspecified CGI modules** checkbox.
10. Browse to the required site/virtual directory. For example, "R1WebUI".
11. Right-click **Handler Mappings** in the center pane, and select the **Open Feature** option from the drop-down menu.
12. Click the **Add Module Mapping** link in the right-hand **Actions** pane.
13. In the **Add Module Mapping** dialog box, fill in the information as follows:
  - a. In the **Request path** field, enter \*.cgi.

- b. From the **Module** drop-down list, select **CgiModule**.
  - c. In the **Name** field, enter **RW-CGI**.
14. Click **OK**.

**To access Web UI**, point a web browser to the new site/virtual directory:  
For example: `http://internal_server/R1WebUI/start.htm`

## Apache

Apache configuration is typically unique to each web server. The following is an example of R-1 Web UI configuration on an Apache installation on UNIX.

On UNIX machines, before configuring the R-1 Web UI after an upgrade, a fresh installation or in environments where libxml is not installed, create a symbolic link:

```
ln -s </install_path/>repliweb/rds/common/rw_libxml /usr/lib/<lib name>
```

where the `lib name` depends on the platform:

Linux: `libxml2.so.2`  
Solaris: `libxml2.so.2`  
Aix: `libxml2.a`  
HP-UX: `libxml2.sl`  
HP-Itanium: `libxml2.so.8`

### To set up Apache:

1. Ensure that the Apache web server is running properly by pointing a web-browser to **`http://<internal_server_name>`** and seeing that it loads the default Apache web site.
2. Make the following changes to the Apache configuration file (`httpd.conf`):
  - a. Create aliases to `html` and `cgi-bin` directories from the R-1 / ROSS installation.  
For example, if R-1 is installed under `/usr/repliweb/r1` then in the `Aliases` section, add:

```
Alias /R1WebUI "/usr/repliweb/r1/WebUI/"  
<Directory "/usr/repliweb/r1/WebUI">  
    Options -Indexes Includes multiViews +ExecCGI  
    AllowOverride None  
    Order allow,deny  
    Allow from all  
</Directory>
```

**NOTE:** In order to browse to the default Web UI page, add **start.htm** to the `DirectoryIndex` directive, as follows:

```
DirectoryIndex start.htm
```

- b. Make sure that the web site address is set.

For example:

```
ServerName http://www.internal\_server.com
```

- c. Uncomment this line, so Apache can run the CGIs:  

```
AddHandler cgi-script .cgi
```
- d. Add this line, so Internet Explorer can display the icons properly:  

```
AddType image/x-icon .ico
```

3. Restart Apache.

For example, if Apache is installed under `/usr/local/`, execute:

```
/usr/local/apache/bin/apachectl restart
```

**To access Web UI**, point a web browser to the new location:

For example: `http://www.internal_server.com/R1WebUI/start.htm`

**NOTE:** If you configured the default Web UI page to open (according to the note in step 2\ a above), access it by using “`http://www.internal_server.com:port/R1WebUI`” for R-1 or “`http://www.internal_server.com:port/ROSSWebUI`” for ROSS

# 5. Customizing Web UI

This appendix explains how to customize Web UI. Customization enables you to brand the interface with your own look and feel, hide advanced features from less experienced users and change default values. Therefore, please make sure you understand your users' needs as and are familiar with Web UI before performing any customization tasks. Likewise, it is recommended to verify any changes in a test environment before implementing them in a production environment.

For a detailed description of Web UI, please refer to the *R-1 Web UI User Guide* or *ROSS Web UI User Guide*.

**NOTE:** Web UI functionality is the same for R-1 and ROSS. This section displays R-1 images.

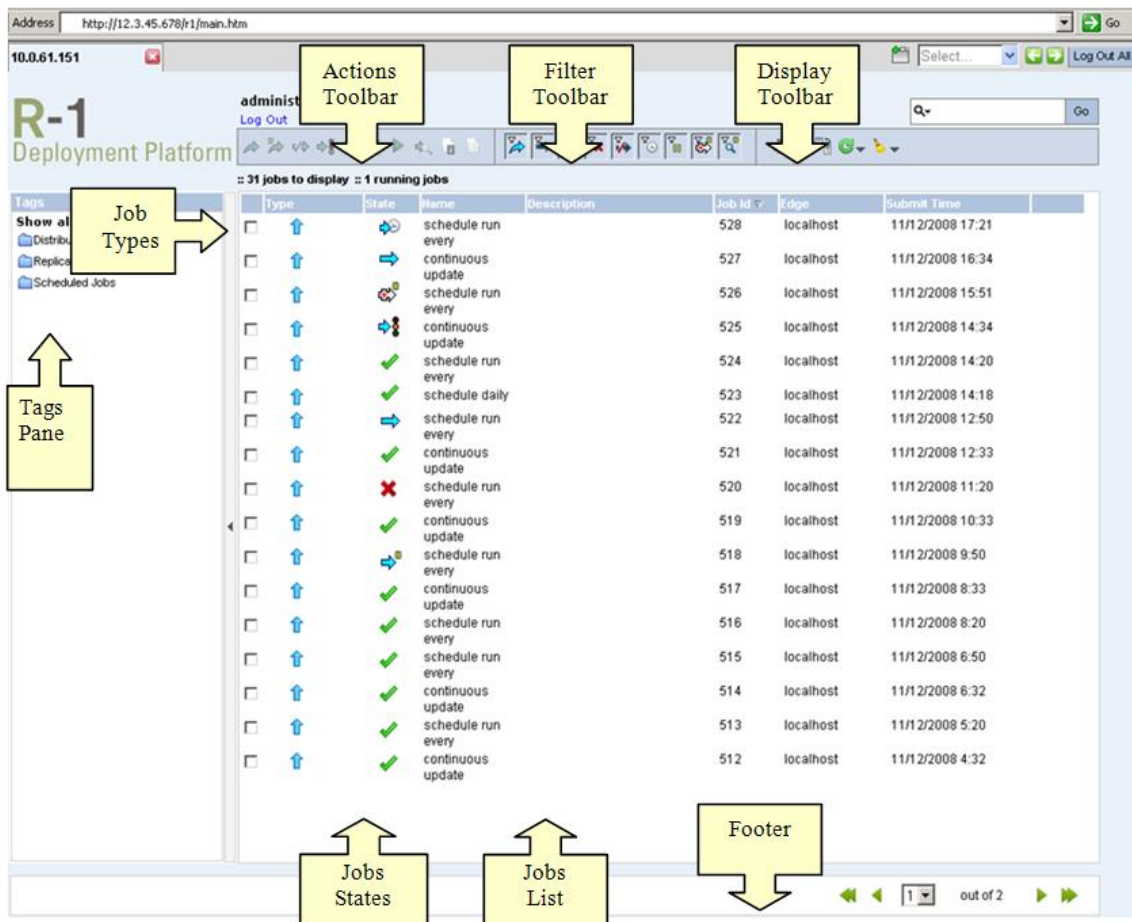


Figure 1: R-1 Job Progress Bar

## The Customization Procedure

Customizing Web UI involves the editing of default xml file (**default.xml** for R-1 or **RossDefault.xml** for ROSS). Any changes that you make will only be applied after you save the file. Any users that are logged in at the time will need to refresh Web UI to see the changes.

### To customize Web UI:

1. Open the appropriate file:

For R-1:

```
~\RepliWeb\R1\WebUI\Customizer\default.xml
```

For ROSS:

```
~\RepliWeb\ROSS\WebUI\Customizer\RossDefault.xml
```

**NOTE:** It is strongly recommended to save a backup copy of this **xml** file. This will enable you to revert your changes should the need arise.

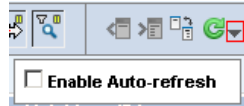
2. Edit the file as required. The following customization options are available:

- [Setting the Auto-Refresh Frequency](#)
- [Changing the Default View](#)
- [Changing the Logo Image](#)
- [Opening Web UI with the Tags Pane Closed](#)
- [Hiding the Actions and Filters Toolbars](#)
- [Modifying Column Properties](#)
- [Hiding the Context Menu](#)
- [Changing the Number of Jobs Displayed Per Page](#)
- [Changing the Footer Properties](#)
- [Modifying Tab, Toolbar and Body Background Colors](#)
- [Modifying Standard Column Properties](#)
- [Modifying Action Column Properties](#)
- [Modifying Scheduled Last Child Column Properties](#)
- [Modifying Action Toolbar Properties](#)
- [Modifying Filter Toolbar Buttons](#)
- [Modifying System Toolbar Buttons](#)
- [Disabling Preview Window Editing](#)

3. Save the file in the same location.

## Setting the Auto-Refresh Frequency

By default, Web UI does not auto-refresh. Users are able to choose the auto-refresh option, but the auto-refresh *interval* can only be changed by the R-1 / ROSS administrator.



**To set the auto-refresh frequency, change:**

```
<System id="autoRefresh" value="none"/>
to:
```

```
<System id="autoRefresh" value="your_value"/>
```

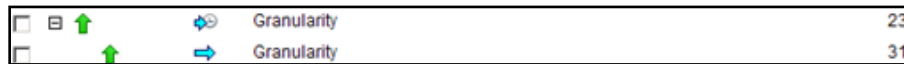
where **your\_value** is the frequency in seconds that the interface will refresh itself.

**Example:** `<System id="autoRefresh" value="30"/>`

## Changing the Default View

Jobs can be viewed either hierarchically or flat. In Hierarchical view, parent and child jobs are displayed hierarchically with an option to expand or collapse the job family, as shown below.

**NOTE:** In Hierarchical view, the tags pane is unavailable.



**To change the default view, replace:**

```
<System id="defaultView" value="flat"/>
with:
```

```
<System id="defaultView" value="hierarchical"/>
```

## Changing the Logo Image

You can replace the default RepliWeb logo with your company's logo or any other image.

**To change the default logo, replace:**

```
<System id="logoImage" value="../images/r1_transparent_50.gif "/>
```

with:

```
<System id="logoImage" value="your_image"/>
```

where **your\_image** is the full, or relative, path of your image.

```
<System id="logoImage" value="../images/MyLogo.gif"/>
```

See also [Guidelines for Replacing Images](#).

## Opening Web UI with the Tags Pane Closed

To open Web UI with the Tags pane closed, change:

```
<System id="leftPane" value="open"/>
```

to:

```
<System id="leftPane" value="close"/>
```

## Hiding the Actions and Filters Toolbars

To hide the Actions toolbar, change:

```
<System id="ActionsMenu" display="yes"/>
```

to:

```
<System id="ActionsMenu" display="no"/>
```

To hide the Filters toolbar, change:

```
<System id="FilterMenu" display="yes"/>
```

to:

```
<System id="FilterMenu" display="no"/>
```

## Modifying Column Properties

To change the background color of the column headings, replace:

```
HeaderBackgroundColor="#b0c4de"
```

with:

```
HeaderBackgroundColor="your_color"
```

**Example:** HeaderBackgroundColor="#007878"

To change the column headings font color, replace:

```
HeaderFontColor="White"
```

with:

```
HeaderFontColor="your_color"
```

**Example:** HeaderFontColor="#007878"

**To change the font color of column items, replace:**

```
FontColor="Black"
```

with:

```
FontColor="your_color"
```

**Example:** FontColor="#007878"

**To wrap text that does not fit in the specified column width, change:**

**NOTE:** Setting "tooltip" will display the full text, in a tooltip, whenever standing on a column with trimmed text.

```
TrimmedText="tooltip"
```

to:

```
TrimmedText="wrap"
```

**To change the default sorting column, replace:**

```
DefaultSortColumn="clm_Job_id"
```

to:

```
DefaultSortColumn="column_name"
```

where **column\_name** is the name of the column by which the job list should be sorted.

Possibilities are (columns marked with an asterisk are hidden by default):

```
clm_Type
```

```
clm_Job_Name
```

```
clm_Job_Description
```

```
clm_Edge
```

```
clm_Submit_Time
```

```
clm_State
```

```
clm_Job_Id
```

```
clm_End_Time*
```

```
clm_Msg*
```

```
clm_Stage*
```

```
clm_Target_dir*
```

```
clm_Source_dir*
```

```
clm_Demanding_User*  
clm_Father_Id*  
clm_Scheduled*  
clm_Demanding_User_Domain*  
clm_Chain_Head_Job_Id  
clm_Chain_Head_Job_Name  
clm_Chain_Head_Center*  
clm_Chained_Job_Demanded_By_Job_Id  
clm_Chained_Job_Demanded_By_Job_Name*  
clm_Chained_Job_Demanded_By_Job_Center*
```

## Hiding the Context Menu

To hide the context menu (accessed by right-clicking a job), change:

```
DisplayContextMenu="yes"  
to:  
DisplayContextMenu="no"
```

## Changing the Number of Jobs Displayed Per Page

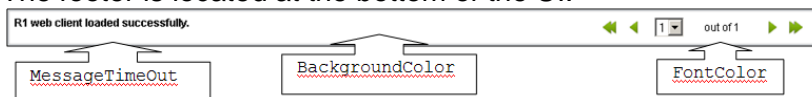
To change the number of jobs displayed on each page, change:

```
JobsPerPage="17"  
to:  
JobsPerPage="your_number"
```

where **your\_number** is the number of jobs to display on each page.

## Changing the Footer Properties

The footer is located at the bottom of the UI.



To modify the footer properties:

- Locate the following section and modify the values as appropriate:

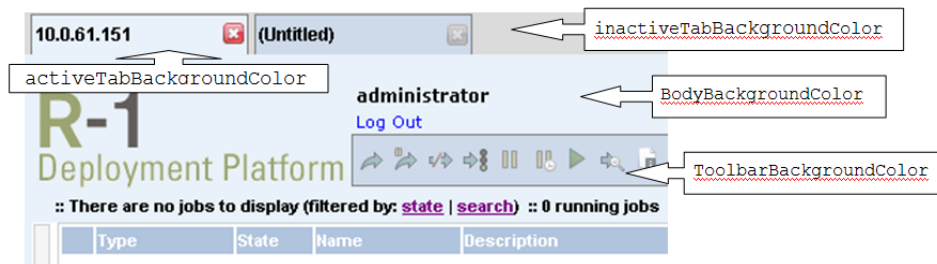
```
<Footer id="footer" BackgroundColor="white" FontColor="Black"
MessageTimeout="8"/>
```

Messages are displayed at the bottom of the UI whenever the user performs an action that affects the GUI status, for example, filtering the list of jobs. The `MessageTimeout` value is the number of seconds that the message is displayed.

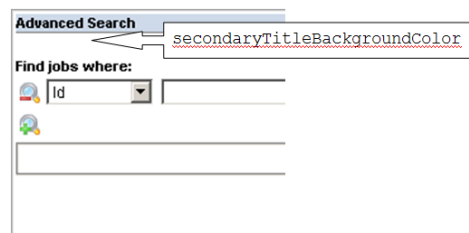
## Modifying Tab, Toolbar and Body Background Colors

You can change the default background and font colors. Locate the following section and then change the HTML color codes as required:

```
<LookAndFeel id="lookAndFeel" bodyBackgroundColor="#E9F2FA"
toolbarBackgroundColor="#CEDAEA"
secondaryTitleBackgroundColor="#CEDAEA"
activeTabBackgroundColor="#E9F2FA"
inactiveTabBackgroundColor="#CEDAEA"/>
```



The `secondaryTitleBackgroundColor` refers to the title bar color of windows that are opened by clicking a menu item or toolbar button, one such example being the **Advanced Search** window shown below.



## Displaying Description and Contact Information

The following properties enable you to specify a description, contact name and contact email to display in Web UI Login page.

### To display Description, Contact Name and Contact Email:

- Locate the following section and modify as appropriate.

```
<Support id="send_to_support" display="no"
backgroundcolor="#f0f0f0">
```

For example, to display support text and change its background to red, change it to:

```
<Support id="send_to_support" display="yes"
backgroundcolor="red">
```

### To specify text to display in the login page:

- Locate the rows beginning with `<item id` and modify as appropriate.

For example, to display the contact email [user@company.com](mailto:user@company.com), modify the row that begins with `<Item id="sts_contact_email" to:`

```
<Item id="sts_contact_email" display="yes" color="Blue"
value="user@company.com" />
```

## Modifying Standard Column Properties

The following column properties can be modified: **width**, whether or not to **display** the column, the **order** of the column (e.g. 1<sup>st</sup>, 2<sup>nd</sup> and so on) and the column **caption**.

### To change column properties:

1. Locate the section that begins and ends with the tag `<Columns>`. Each column is represented by a row that begins with `<Column id=`

For Scheduled job columns, locate the `<ScheduleLastChildColumns>` section. Each column is represented by a row that begins with `<LastChild id`

2. Locate the columns that you want to change and modify the values as appropriate. For example, to change the width of the **Description** column, locate the row:

```
<Column id="clm_Job_Description" width="180px"
display="yes" order="4" caption="Description"/>
```

and change the **width** attribute to `width="your_width"` e.g. `width="100px"`

## Modifying Action Column Properties

Actions are normally performed by selecting the job and then clicking the appropriate toolbar button. Alternatively, users can right-click the job and select the action from the context menu.

A third option is also available: If actions are performed frequently, you can add a column that will contain a button for performing the desired action.

The following column properties can be modified: **width**, whether or not to **display** the column, the **order** of the column (e.g. 1<sup>st</sup>, 2<sup>nd</sup> and so on), the column **caption** and the action button **icon**.

#### To change column properties:

1. Locate the section that begins and ends with the tag `<ActionColumns>`. Each column is represented by a row that begins with `<ActionColumns id=`
2. Locate the columns that you want to change and modify the values as appropriate. For example, to change the width of the **clm\_Submit** column, locate the row:

```
<ActionColumn id="clm_Submit" display="no" order="100"
width="50px" icon="" />
```

and change the **width** attribute to `width="your_width"` e.g. `width="100px"`

See also [Guidelines for Replacing Images](#).

## Modifying Scheduled Last Child Column Properties

A scheduled job can submit many job instances, especially if the job is scheduled to run frequently. The most recent job instance is usually the most important in terms of monitoring. To find the last job instance, users first need to expand the Scheduled job (assuming the display is in Hierarchical view) and then locate the last job instance.

Adding Last Child Columns can help the user easily locate information about the last job instance without requiring them to change Views (from Flat to Hierarchical) or expand the Scheduled job.

#### To change the column properties:

1. Locate the section that begins and ends with the tag `<ScheduleLastChildColumns>`. Each column is represented by a row that begins with `<LastChild id=`
2. Locate the columns that you want to change and modify the values as appropriate. For example, to change the width of the **Last Child Submit Time** column, locate the row:

```
<LastChild id="clm_slc_Submit_Time" display="no" order="201"
width="140px" caption="Last Child Submit Time" />
```

and change the **width** attribute to `width="your_width"` e.g. `width="100px"`

## Modifying Action Toolbar Properties

Actions are normally performed by selecting the job and then clicking the appropriate toolbar button. Alternatively, users can right-click the job and select the action from the context menu.

The following toolbar properties can be modified: whether or not to **display** the toolbar button, and the toolbar button **icons**. You can specify two different icons for the same button – one will be used when the button is enabled (`iconEnabled`) and the other will be used when the button is disabled (`iconDisabled`).

See also [Guidelines for Replacing Images](#).

### To change toolbar properties:

1. Locate the section that begins and ends with the tag `<ActionsMenu>`.  
Each toolbar button is represented by a row that begins with `<Action id=`
2. Locate the toolbar buttons that you want to change and modify the values as appropriate. For example, to hide the **Submit** button, locate the row:

```
<Action id="act_submit" display="yes" iconEnabled=""  
iconDisabled="" />
```

and change `display="yes"` to `display="no"`

## Modifying Filter Toolbar Buttons

The Filter Toolbar is used to hide or display jobs according to status.

The only toolbar property can be modified is whether or not to **display** toolbar buttons.

### To hide or display filter toolbar buttons:

1. Locate the section that begins and ends with the tag `<FilterMenu>`.
2. Each toolbar button is represented by a row that begins with `<Filter id=`
3. Locate the toolbar buttons that you want to change and modify the values as appropriate. For example, to hide the **Running** button, locate the row:

```
<Filter id="fltr_Running" display="yes" />
```

and change `display="yes"` to `display="no"`

## Modifying System Toolbar Buttons

The System Toolbar is used to:

- Refresh the display
- Clear view state (tags, filters and search)
- Switch between flat and hierarchical views
- Expand and collapse the job list in hierarchical view

The following toolbar properties can be modified:

- Whether or not to **display** the toolbar button.
- The **icon** that will be displayed on each of the toolbar buttons.

### To modify the toolbar buttons:

1. Locate the section that begins and ends with the tag `<SystemButtons>`. Each toolbar button is represented by a row that begins with `<Button id=`
2. Locate the toolbar buttons that you want to change and modify the values as appropriate. For example, to hide the **Refresh** button, locate the row:

```
<Button id="btn_RefreshSys" display="yes" icon="" />
```

and change `display="yes"` to `display="no"`

```
<SystemButtons>
<Button id="btn_RefreshSys" display="yes" icon="" />
<Button id="btn_ClearSys" display="yes" icon="" />
<Button id="btn_expandAll" display="yes" iconEnabled="" iconDisabled="" />
<Button id="btn_collapseAll" display="yes" iconEnabled="" iconDisabled="" />
<Button id="btn_SwitchView" display="yes" icon="" />
</SystemButtons>
```

## Disabling Preview Window Editing

The Preview window enables you to edit the job's replication before allowing the job to continue to the actual transfer of source files to the target. For example, you can choose which source entities NOT to transfer or which target entities NOT to delete.

By default, you can edit the job's planned changes in the job's Preview window.

### To disable editing the Preview window:

- Locate the Preview section that begins and ends with `<Preview readonly="no">`, and change `readonly="no"` to `readonly="yes"`.

## Guidelines for Replacing Images

1. Images can either be in GIF or JPEG format.
2. Ideally, the new image should be the same size as the image being replaced.

3. If no icon is specified (i.e. icon=""), the default icon will be used. Note that this only applies to images denoted by the icon tag.
4. The image must reside in or under the R-1 / ROSS Web site root directory. The default root directory is:

```
C:\Program Files\RepliWeb\R1\WebUI\
```

```
C:\Program Files\RepliWeb\ROSS\WebUI\
```

The image's location must be specified relative to the **Customizer** directory (the directory containing the **default.xml** file). For example, if the location of the **Customizer** directory in R-1 is:

```
C:\Program Files\RepliWeb\R1\WebUI\Customizer
```

And your image is located in:

```
C:\Program Files\RepliWeb\R1\WebUI\Images \MyImage.gif
```

Then the image location would be specified as follows:

```
icon="../../../My Images/MyImage.gif"/>
```

Any valid URL can be used to refer to an image's location, for example:

```
icon="http://www.mycompany.com/images/MyImage.gif"/>
```