



*Version 7.0 User Guide*

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## Audience

The **ClearWeb User Guide** is intended as a guide for day-to-day use for ClearWeb end-users (the users that currently use ClearCase Web or will use ClearCase Web for development). It is expected that this document might be made available to each ClearWeb Client User or that it be made available directly from the ClearWeb interface (directly from the ClearWeb Toolbar).

For installation information, refer to the **ClearWeb Installation Guide**. For ClearWeb Administration issues, refer to the **ClearWeb Administration Guide**. For help with writing web-enabled triggers and extending policy to the web, refer to the **ClearWeb Trigger Writers Guide**.



## ClearWeb Overview

**ClearWeb** is a custom add-on to Rational Software's ClearCase product. **ClearWeb allows for triggers written for ClearCase policy to extend to users of the ClearCase web interface.** The native ClearCase for web users interface does not support interactive triggers. Interactive triggers are those that write to stdout or have any dialogs displaying to or requesting information from the ClearCase user. When Native ClearCase encounters a write to stdout or stderr from a users trigger script, the ClearCase web user is shown a non-descript error message indicating the following:

- the associated trigger failed for reasons unknown
- the trigger is possibly "interactive" and unsupported.

ClearWeb allows for any writes to stdout or stderr from your trigger scripts to be displayed to the ClearCase web-client while allowing for interactive dialogs (dialogs that request information from the user). Due to the fact that ClearWeb is user sensitive, scripts are triggered using clearprompt or similarly functioning web dialogs, depending on whether the user is a standard (non-web) user *or* a ClearCase web user. Upon request, ClearWeb further enables organizations to add triggers for specialized purposes, while allowing for unique interactive policy based on the type of user (web user or non-web user). Interactive dialogs allow the client to answer questions or make selections to the server.

The Native ClearCase Web interface provides no per/user security in that all VOBs that are within the default region of the ClearCase Web Server are accessible for all users. In order to provide different VOB access for different users multiple ClearCase Web Servers must be purchased.

**ClearWeb allows for a user to VOB matrix to be created so that the ClearWeb Administrator can limit the VOBs that their web users have access to from the web (this also extends to directories within VOBs). Now a single ClearCase Web Server can serve many user/user groups with different VOB/directory access rights.**

The Native ClearCase Web interface provides ability to limit when a user can access the ClearCase Web Interface; therefore there is no ability to limit access to users during scheduled VOB/Web server maintenance, backups or to just the times when the support organization can support the web users. **ClearWeb allows a user/time matrix to be created so that the ClearWeb Administrator can limit when a user or group of users can access the ClearCase Web Interface.**

The Native ClearCase Web interface only supports a limited set of cleartool commands (checkout, checkin, uncheckout, update) **ClearWeb extends this by allowing for over 120 more cleartool commands than the native ClearCase Web interface and an unlimited number of non-ClearCase commands.**

ClearWeb facilitates communication between geographically disjoint development groups by providing a common communications platform between these groups (the ClearCase Web Interface). ClearWeb users can communicate with their ClearWeb peers (within the company – or other companies) to ask or answer questions (ClearWeb related or not) right from the ClearCase Web interface.



Additionally, ClearWeb allows for groups to make other company applications or data (i.e. company FAQs, company timesheet applications, etc.) available from the ClearCase Web Interface. ClearWeb also allows the popular local ClearCase/ClearQuest integration to work over the web just as it does for local ClearCase users.

ClearWeb requires no installation on the client side. If a user currently accesses ClearCase data from the web interface, they will continue to do so in the same way. The primary difference is the way in which the server communicates information to the client via stdout, stderr and dialogs windows. Additionally, the client will have the ability to answer questions or make selections through interactive dialogs as well as the ability to perform many more ClearCase and non-ClearCase commands.

Due to the complete integration of ClearWeb with ClearTrigger, all triggers are automatically web-ready for both stdout or stderr and ClearTrigger created dialogs. Simply install and configure ClearWeb on the server to get started!

## Customer Support

To obtain additional information on ClearWeb or services offered by A Better Solution, Inc., visit our web site at [www.abs-consulting.com](http://www.abs-consulting.com). To report problems with the ClearWeb software or documentation, please submit a problem report via email to [clearweb\\_team@abs-consulting.com](mailto:clearweb_team@abs-consulting.com).

If you purchased ClearWeb from ClearVision (the only licensed reseller of ClearWeb in the European regions) then you should contact [support@clearvision-cm.com](mailto:support@clearvision-cm.com) for support.

## Supported Platforms

ClearWeb integrate with ClearCase web installations of version 5.0 and higher. A single installation of ClearWeb typically serves an entire organization. The system requirements for ClearWeb are consistent with those used to run ClearCase versions 5.0 and later. The following operating systems are supported for ClearWeb:

### ❖ WINDOWS:

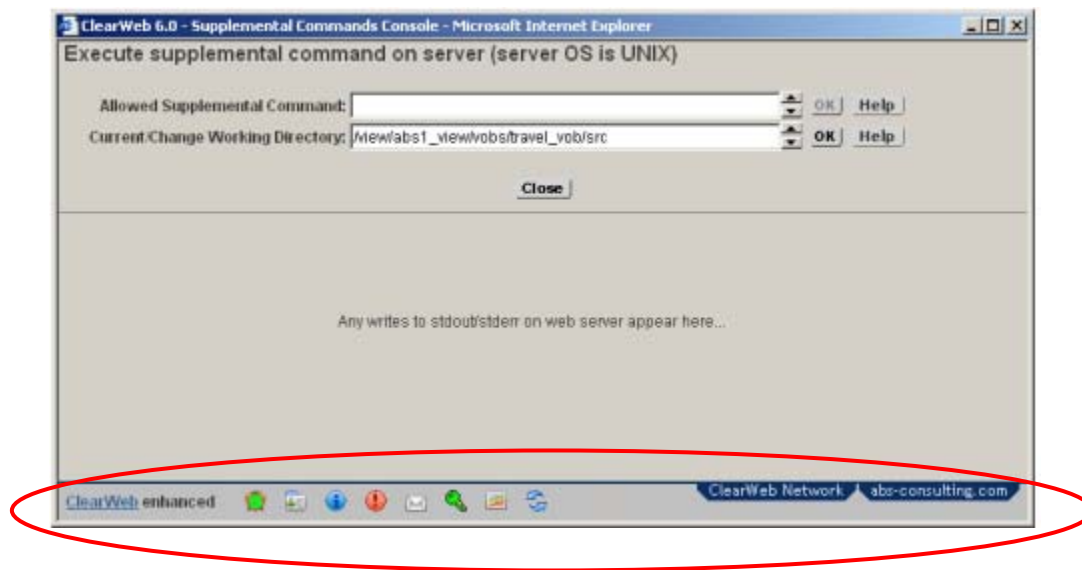
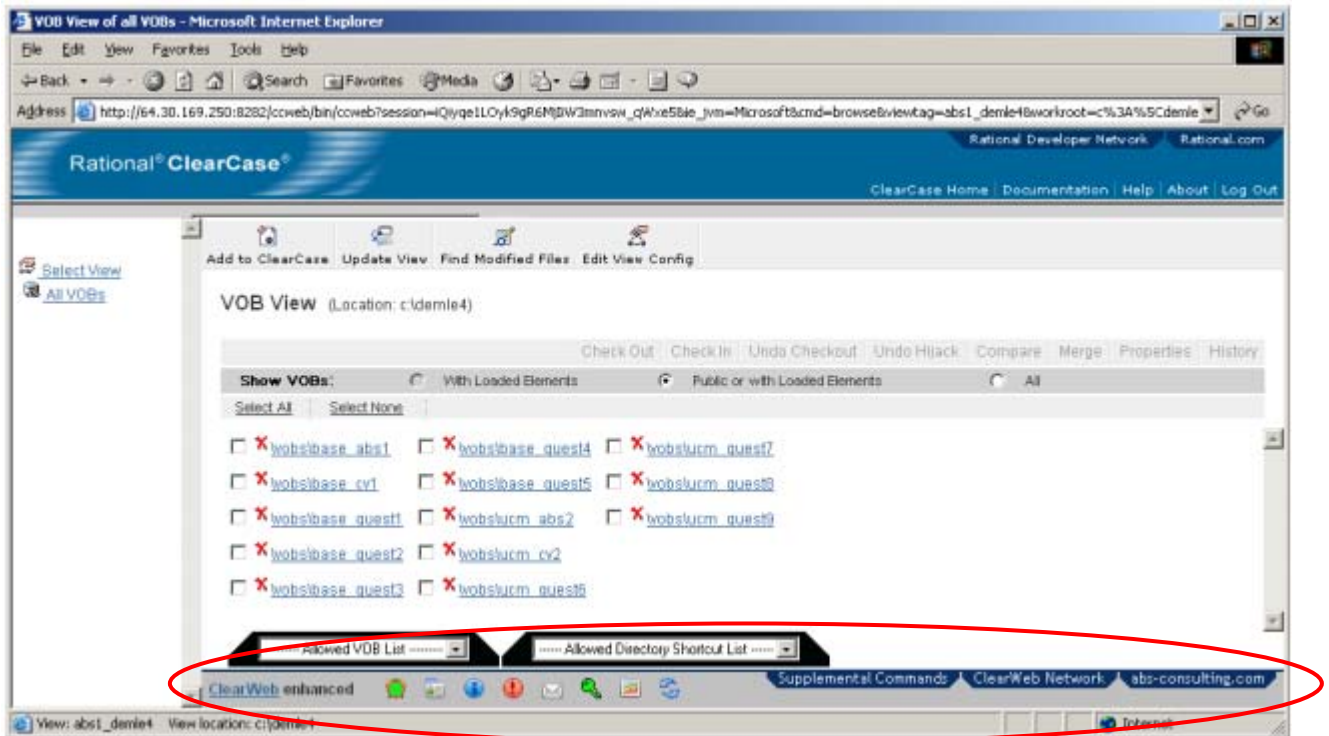
- **Windows 9x**
- **Windows NT**
- **Windows 2000 and higher**

### ❖ UNIX:

- **Solaris**
- **SunOS**
- **HP-UX**
- **RedHat Linux**
- **True64**
- **AIX**
- **IRIX**

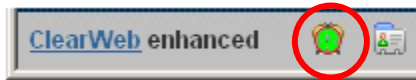
## ClearWeb GUI Interface


ClearWeb is designed to discretely integrate with the ClearCase Web Interface. As shown below in the diagram, the ClearWeb interface consists of a single toolbar with icons and tabs. The interface is usable with display modes from 800x600 or greater.







## ClearWeb Time Restricted Access

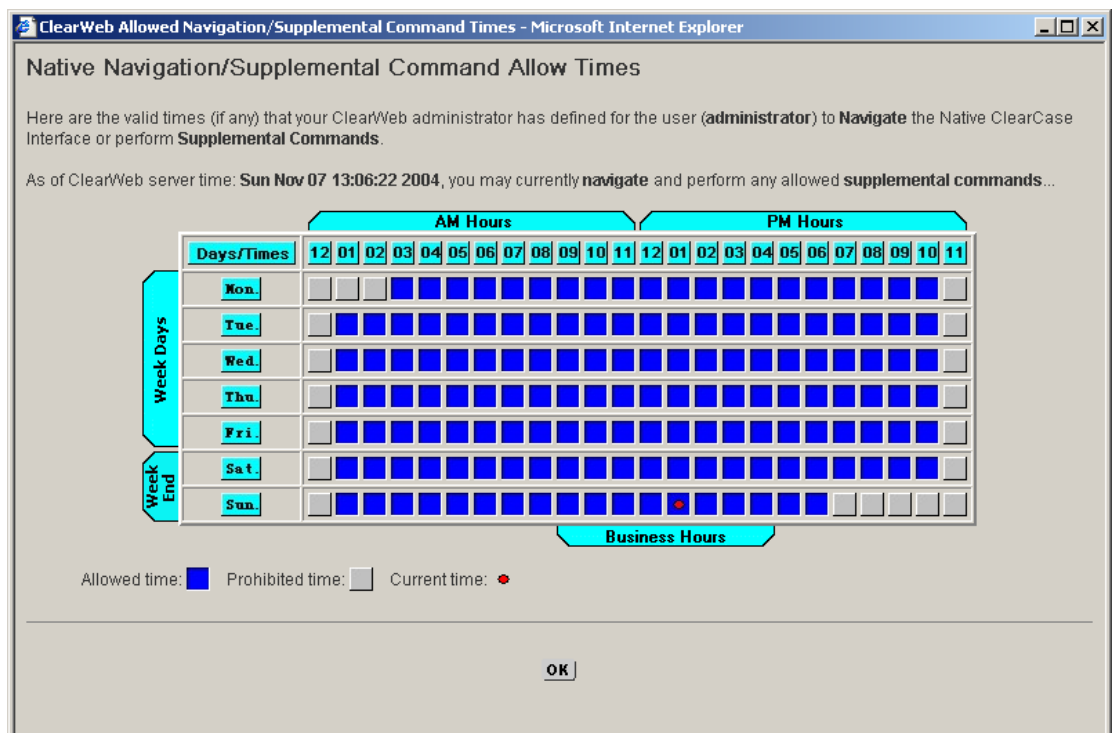
Your ClearWeb Administrator might prohibit you from using the interface at certain times. This might be done during VOB backups or for other schedule tasks. The **Allowed Times** icon provides a visual clue to inform you if you are allowed to navigate the Native ClearCase Interface or perform an allowed Supplemental Commands.



The Allowed Time icon appears as a  clock to represent the current navigation permissions available you per the table below:

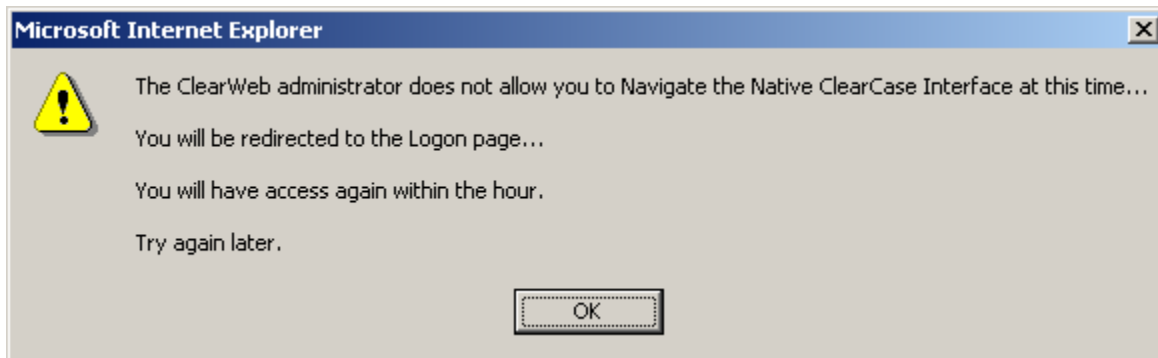
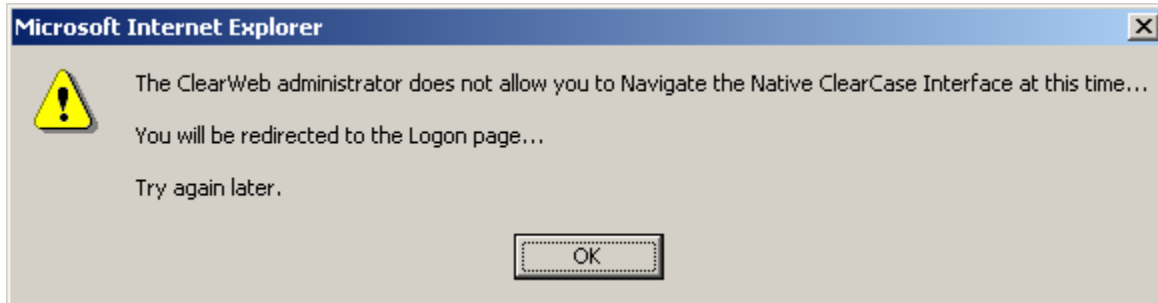
Graphical Component	Purpose
	You are currently allowed to navigate the Native ClearCase interface and execute any allowed supplemental commands.
	You are currently allowed to navigate the Native ClearCase interface and execute any allowed supplemental commands, but you will enter a restricted period within the hour.
	You are NOT currently allowed to navigate the Native ClearCase interface or execute any allowed supplemental commands.
	You are NOT currently allowed to navigate the Native ClearCase interface or execute any allowed supplemental commands, but you will enter an allowed period within the hour.

You may select the **Allowed Times** icon at any time in any state to view your **Allowed Times Matrix**, an example is depicted to the right:

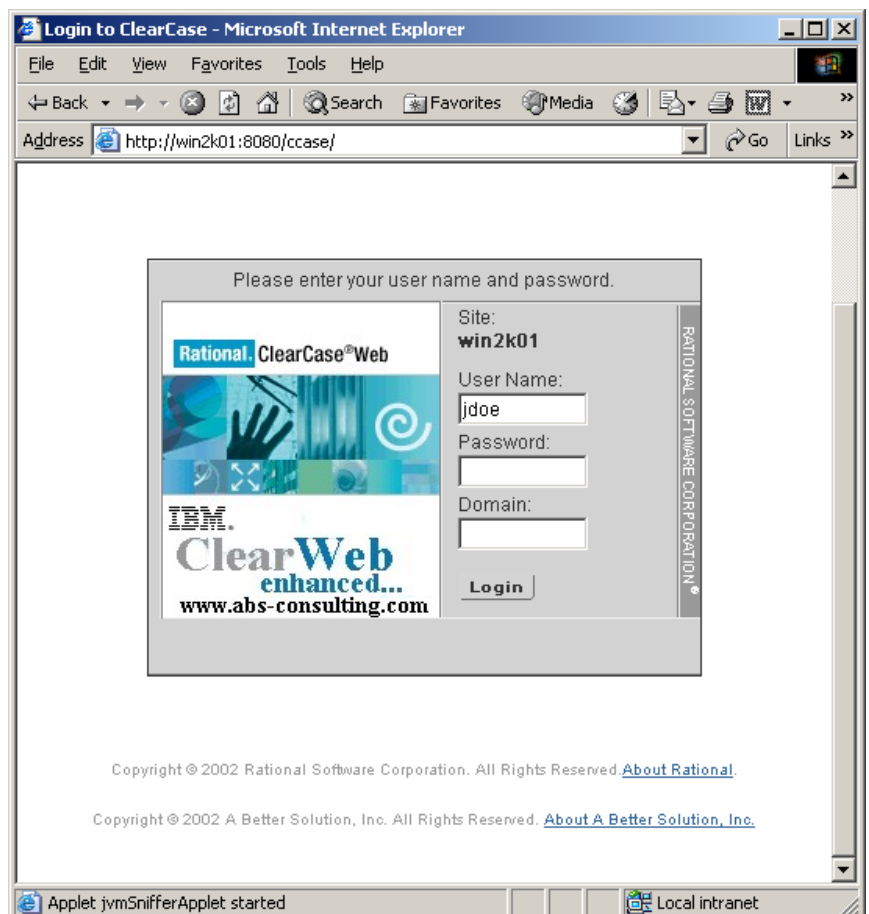




If you attempt to navigate to the browse page on the native ClearCase Web Interface during a prohibited time you will be shown a dialog similar to either of the ones below:

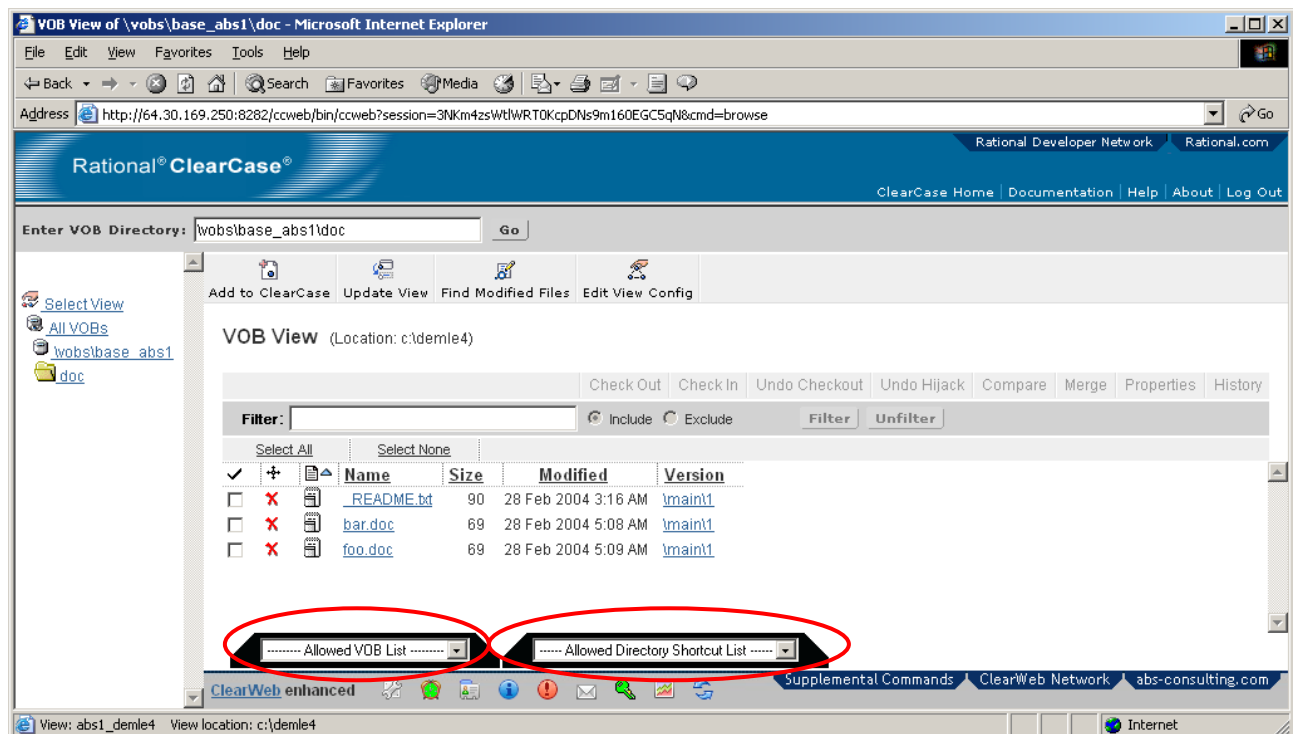
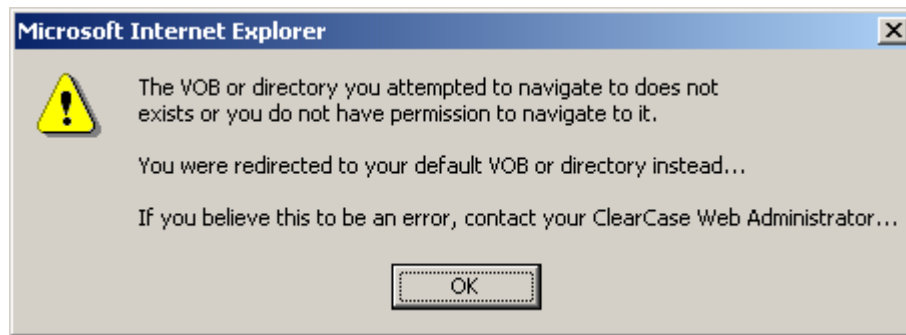


After acknowledging the dialog you are then forcibly logged out and redirected to the logon page.



## ClearWeb VOB/Directory Restricted Access

Your ClearWeb Administrator will decide which VOBs or directories you may view and navigate to in the ClearCase Web Interface. You will only be allowed to navigate to the allowed VOB and VOB directories and below. The ClearWeb Administrator also defined a **Default Location** for you; this Default Location is where you are redirected if you attempt to navigate to a non-existent or prohibited location.

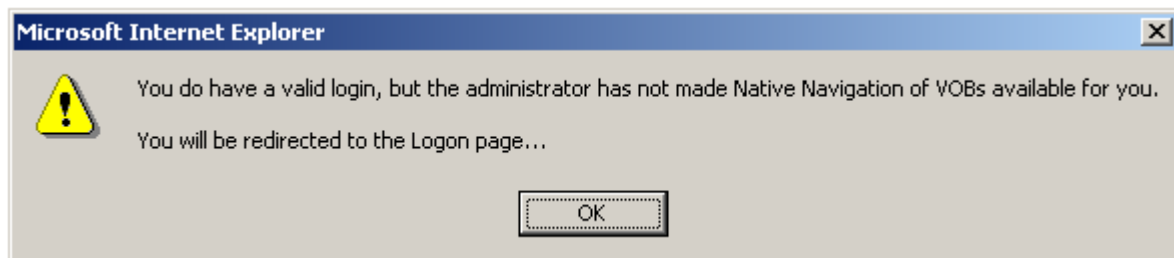


The **Allowed VOB List** displays any VOB that you are fully allowed to navigate into if any. The list is not displayed if there is not at least one VOB to list. Selecting a VOB from the list will navigate you directly to the top of that VOB.

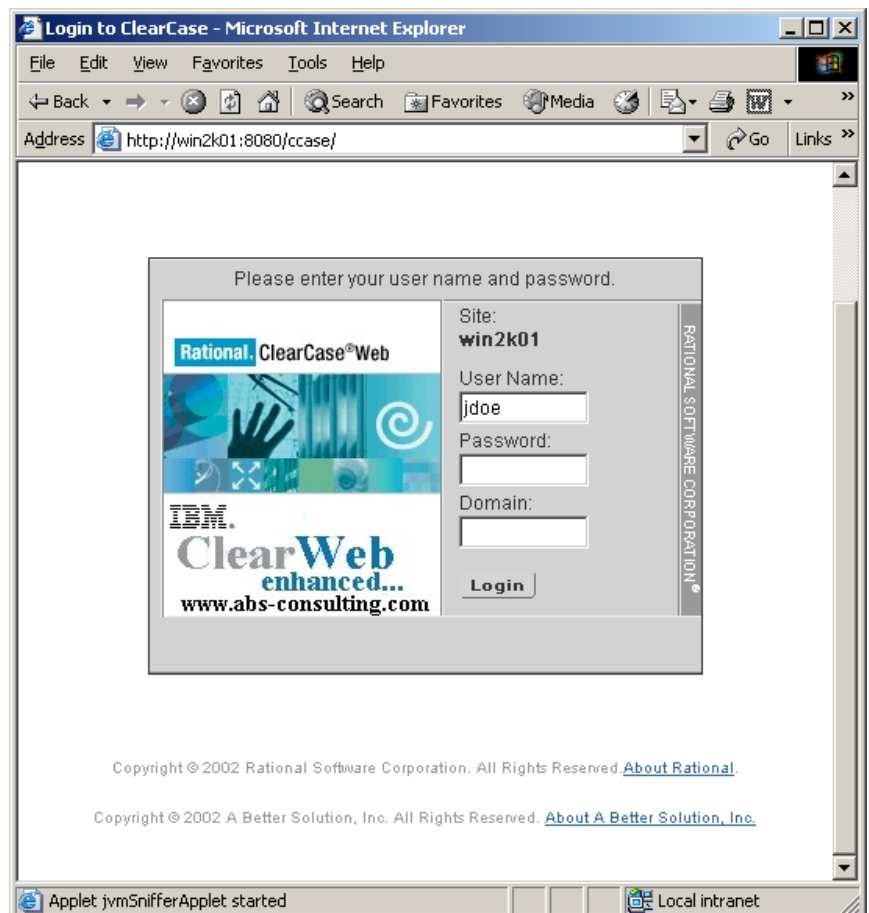
The **Allowed Directory Shortcut List** displays any directory within a VOB that you are allowed to navigate into if any. The list is not displayed if there is not at least one directory to list. Selecting a VOB from the list will navigate you directly to that directory in that VOB.

If you are allowed full access to a by the ClearWeb Administrator and a directory in it is also specifically added as allowed by the Administrator then that VOB will be displayed in the **Allowed VOB List** and any additional directory allowed is still displayed in the **Allowed Directory Shortcut List**.

If you attempt to navigate to the browse page on the native ClearCase Web Interface and the ClearWeb Administrator has not defined at least one VOB or VOB Directory for you to navigate to you will receive a dialog like the one below:

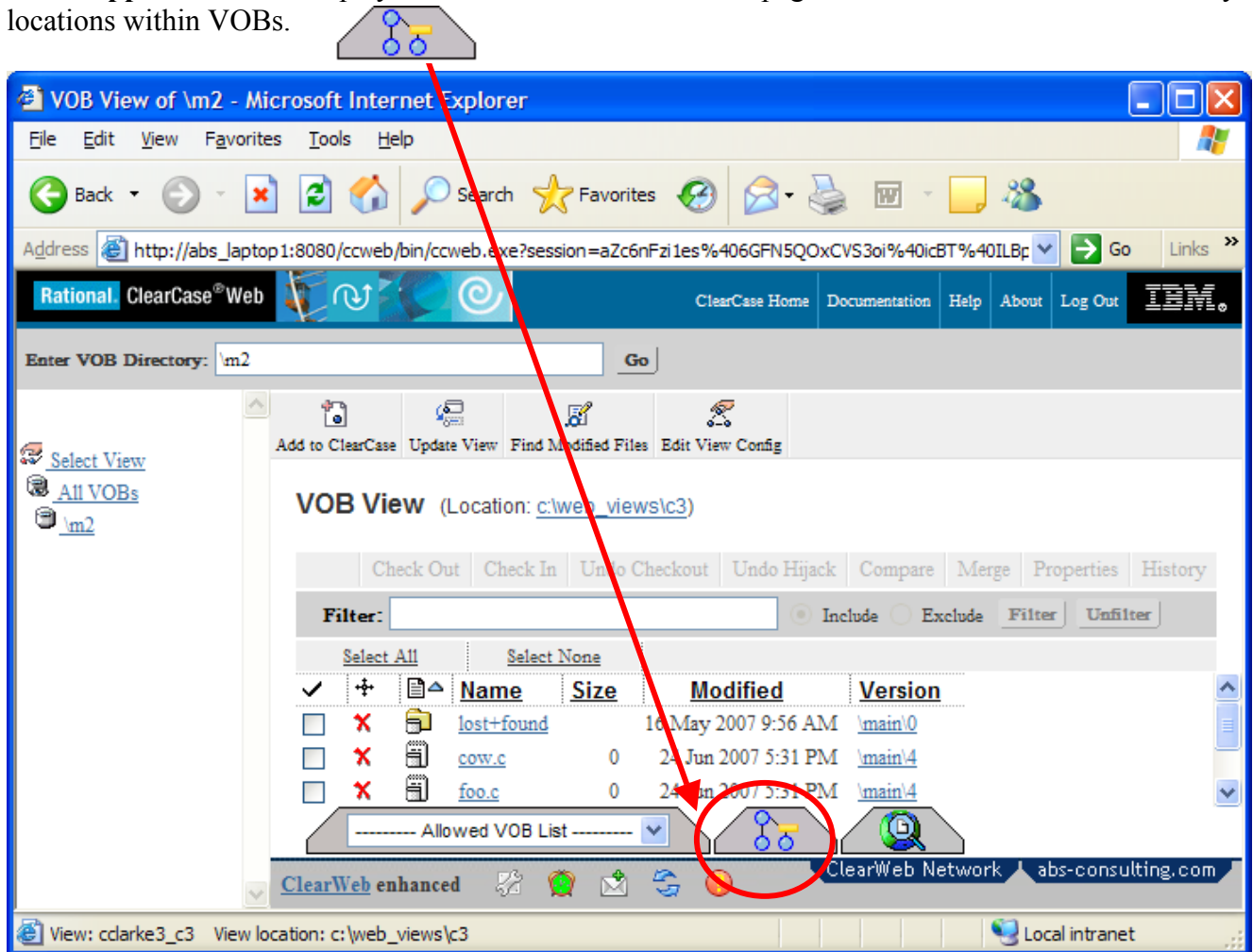


After acknowledging the dialog you are then forcibly logged out and redirected to the logon page.

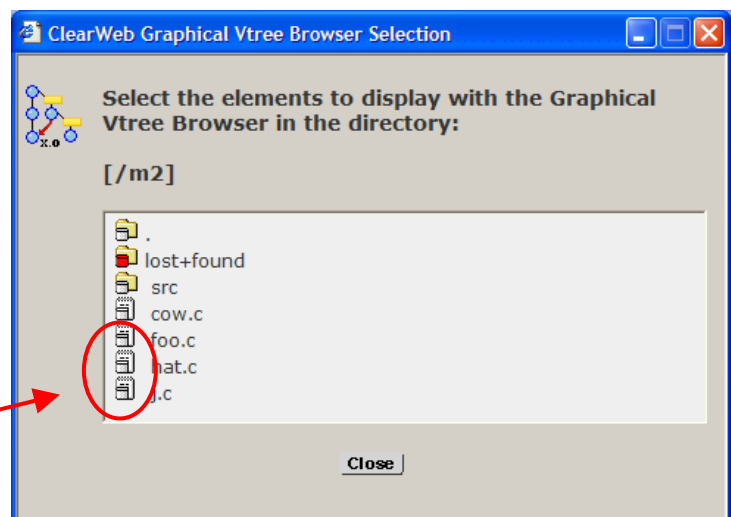


## ClearWeb Web-Enabled Vtree Browser (new to 7.0)

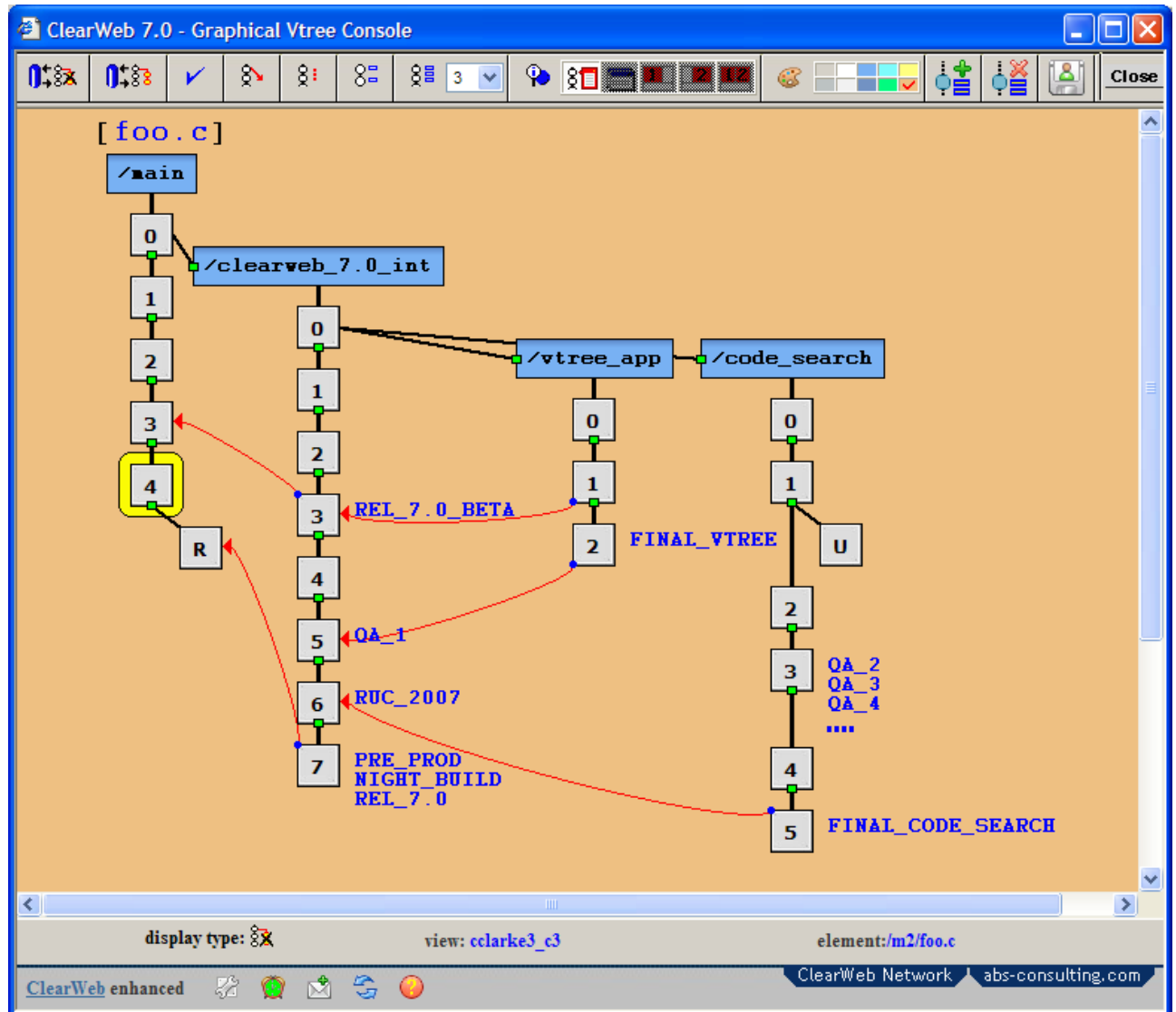
ClearWeb facilitates the creation and use of Web-enabled Vtree Browsers that are similar form and function to the ClearCase Vtree Browser available locally in the native ClearCase client. To open the **Vtree Browser Application** on the ClearWeb enhanced ClearCase Web interface users may select the **Vtree Application Tab** displayed on ClearCase Web Browse pages that are associated with directory locations within VOBs.



Selecting the tab will display a selection dialog of all of the ClearCase VOB resident elements in the current directory visible from within your view like the dialog to the right. Users can have multiple Vtree Selection dialogs open at a time to include directories that they have already navigated from in the ClearCase Web interface. To open a Vtree the user should select the icon to the left of the named element.































Once the element is selected a Graphical Vtree Dialogs is displayed for that element.



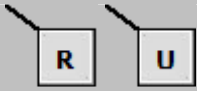




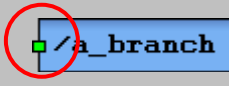




The user may display many Vtree dialogs as they are independent of each other. Users will also find that the speed of display for ClearWeb Vtree rivals that of the local ClearCase Native Vtrees. So user will notice that the display does not suffer from the display performance setbacks or display number limitations of the Vtree Display in the CCRC (ClearCase Remote Client) all of this why more actual ClearCase metadata is displayed.

From the menu toolbar of the **Vtree Console** the users has many display and fetch options. Menu components and their functions are listed in the following table along with a convenient link to its associated sub-section:



Component	Purpose										
	Gathers information from the remote VOB and displays it in the ClearWeb Vtree Browser, it <b>does NOT</b> include information on “ <i>obsoleted</i> ” branches. When new Vtree Browsers are instantiated from the Vtree Selection Dialog this is the default option used. For more information on this menu component refer to the section entitled: <a href="#">Reloading a Vtree Browser</a> .										
	Gathers information from the remote VOB and displays it in the ClearWeb Vtree Browser, it <b>INCLUDES</b> information on “ <i>obsoleted</i> ” branches. For more information on this menu component refer to the section entitled: <a href="#">Reloading a Vtree Browser</a> .										
	Toggles between <b>showing</b> or <b>not showing</b> of checkedout versions in the current Vtree Console. For more information on this menu component refer to the section entitled: <a href="#">Show/Hide Vtree Checkedout Versions</a> .										
	Toggles between <b>showing</b> or <b>not showing</b> of merge arrows in the current Vtree Console. For more information on this menu component refer to the section entitled: <a href="#">Show/Hide Vtree Merge Arrows</a> .										
	Toggles between <b>showing</b> or <b>not showing</b> of “uninteresting” versions in the current Vtree Console. For more information on this menu component refer to the section entitled: <a href="#">Show/Hide Vtree Uninteresting Versions</a> .										
	Restores any previously user hidden versions in the current Vtree Console. For more information on this menu component refer to the section entitled: <a href="#">Restoring Vtree Hidden Versions</a> .										
	By selecting from the associated pulldown the user can determine how many labels per version to display in the current Vtree Console. For more information on this menu component refer to the section entitled: <a href="#">Show/Hide Vtree Labels</a> .										
	By selecting <b>one</b> of the five icons the user can determine how they wish to see additional information on selected Vtree Components (i.e. elements, branches, versions, labels, checkouts and merge arrows). <table border="1" data-bbox="311 1083 1378 1348"> <tr> <td></td><td>Show information in “in-place” “windows in the Vtree Console</td></tr> <tr> <td></td><td>Show information in new self contained windows</td></tr> <tr> <td></td><td>Show information in dedicated reusable information window #1</td></tr> <tr> <td></td><td>Show information in dedicated reusable information window #2</td></tr> <tr> <td></td><td>Show information in dedicated reusable information windows #1 and #2. Toggle between window #1 and #2.</td></tr> </table> <p>For more information on this menu component refer to the section entitled: <a href="#">Showing Detailed Vtree Information Options</a>.</p>		Show information in “in-place” “windows in the Vtree Console		Show information in new self contained windows		Show information in dedicated reusable information window #1		Show information in dedicated reusable information window #2		Show information in dedicated reusable information windows #1 and #2. Toggle between window #1 and #2.
	Show information in “in-place” “windows in the Vtree Console										
	Show information in new self contained windows										
	Show information in dedicated reusable information window #1										
	Show information in dedicated reusable information window #2										
	Show information in dedicated reusable information windows #1 and #2. Toggle between window #1 and #2.										
	By selecting an associated color from the palette the user can change the background color of the current Vtree Console instance. For more information on this menu component refer to the section entitled: <a href="#">Setting the Vtree Display Background</a> .										
	Allows users to Apply labels to element versions displayed in the Vtree Console. For more information on this menu component refer to the section entitled: <a href="#">Applying Labels to Versions in the Vtree</a> .										
	Allows users to Remove labels from element versions displayed in the Vtree Console. For more information on this menu component refer to the section entitled: <a href="#">Removing Labels from Versions in the Vtree</a> .										
	Saves current user Vtree Console settings as the user’s default settings. For more information on this menu component refer to the section entitled: <a href="#">Saving Vtree Display Options</a> .										
	Closes the current Vtree Console										



Every object visible in the Display Area of the Vtree Console is “hot” (can be selected with your pointing device) “clickable” and doing so will provide more information on that object. The information will be displayed as per the [current information display settings](#) for the current Vtree Console. The clickable Vtree Display Components and their functions are listed below:



Object Type	Component example	Action performed by Clicking this GUI Component
Element	[ <a href="#">element.c</a> ]	For the associated element, displays information returned from: <b>cleartool desc -l</b>
Branch		For the associated branch instance, displays information returned from: <b>cleartool desc -l</b>
Checked In Version		For the associated element version, displays information returned from: <b>cleartool desc -l</b>
Checked Out Version		When initially selected it displays the current checkout <b>state</b> (reserved or unreserved) and the <b>view</b> and <b>user</b> to which the checkout belongs.  When selected again it displays information returned from: <b>cleartool desc -l</b> for that checked out version.
Label	<a href="#">A_LABEL</a>	Displays all labels on the associated element version.
More labels	....	Displays all labels on the associated element version.
Merge Destination Arrow Head		Displays all visible merges that have the associated version as a destination version.
Merge Origination Point		Displays all visible merges that have the associated version as an origination version.
“origination-visible” merge arrow		Displays all “origination visible” merges that have the associated version as an origination version and where destination version is currently hidden by the user.
“destination-visible” merge arrow		Displays all “destination visible” merges that have the associated version as a destination version and where origination version is currently hidden by the user.
Hide Branch		Hides the branch, its child versions and sub-branches from the display of the current Vtree Console.
		Hides all of the version’s child versions and their sub-branches from the display of the current Vtree Console, the version itself remains displayed.
		Restores all of the version’s child versions and their sub-branches to the display of the current Vtree Console that were originally hidden by the associated “hide children” object.




## Reloading a Vtree Browser


In order to reload a Vtree Browser to display any updated information from the VOB the user can select either of the two Reload Menu options from the menu toolbar of the ClearWeb Vtree Console  or .

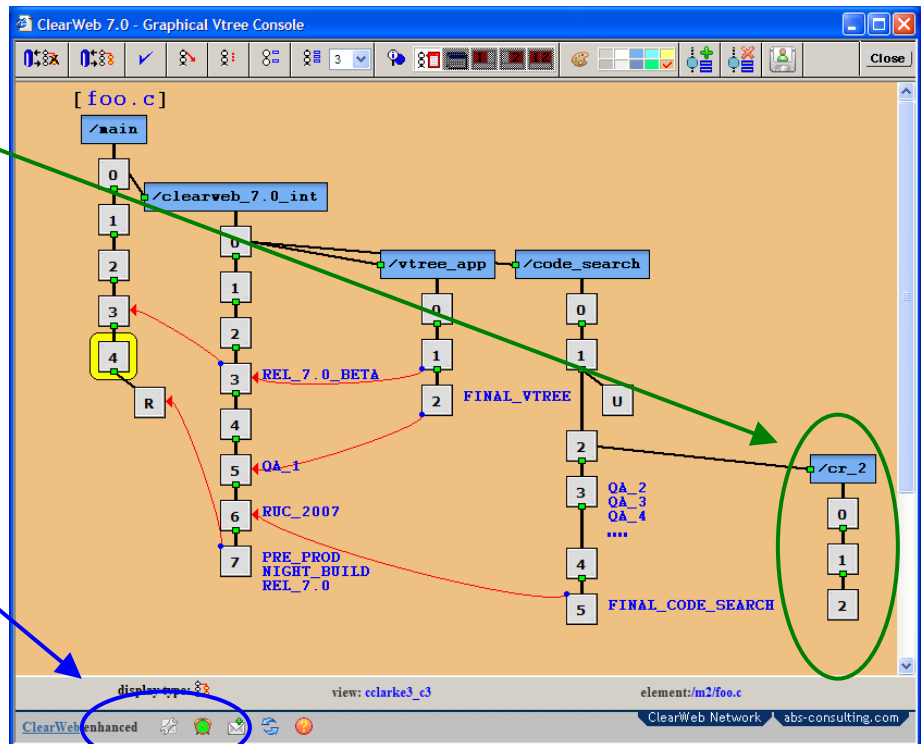
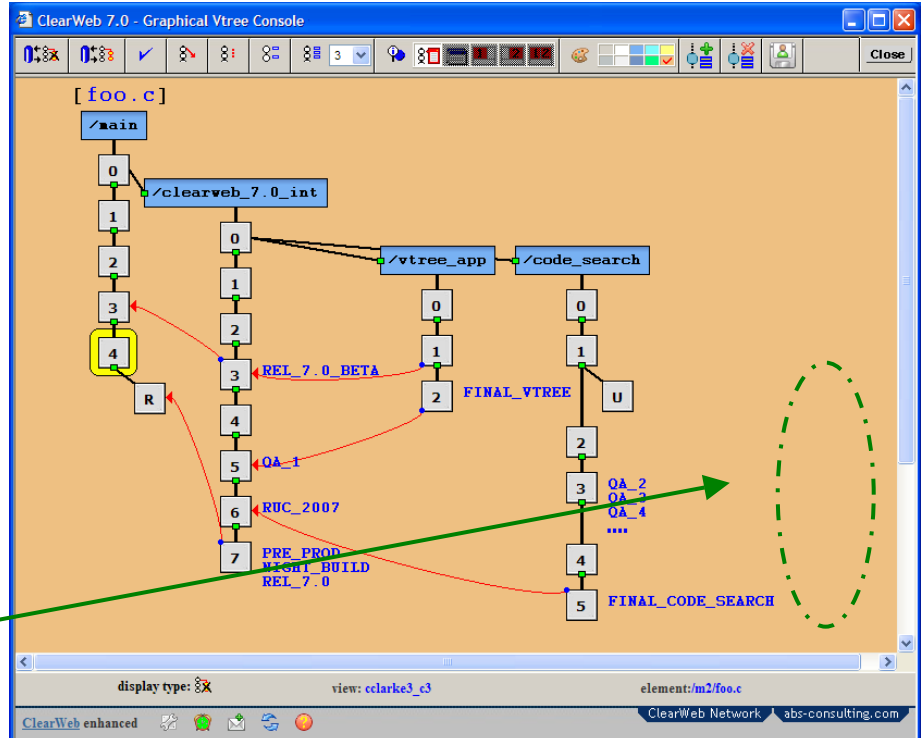
The only difference in the way they behave is that the  menu option gathers version tree information on the current element that does not include data on “obsolete” branches while the  menu option gathers all version tree information on the current element including data on “obsolete” branches.

So selecting the  menu option might result in a Vtree Console like this one without version information on the locked obsolete” branch type **cr\_2** while selecting the  menu option would result in a Vtree Console like this one that includes version information on the locked obsolete” branch type **cr\_2**.

Once displayed it is easy to determine which type of display you are viewing by noting the display type identifier, which will either resemble:

 for a display that does not include “obsolete” branch data or

 for a display which does include “obsolete” branch data.





## Show/Hide Vtree Checkedout Versions

In order to view or hide ClearCase checkedout versions information from the Vtree Console the user can select the Toggle Checkout Menu Option from the menu toolbar of the ClearWeb Vtree Console.

Selecting this option will toggle whether or not checked out versions are displayed.

If the Toggle Checkout Menu options appears “flat”



any checkout data retrieved are currently being displayed.

If the Toggle Checkout Menu options appears “depressed”



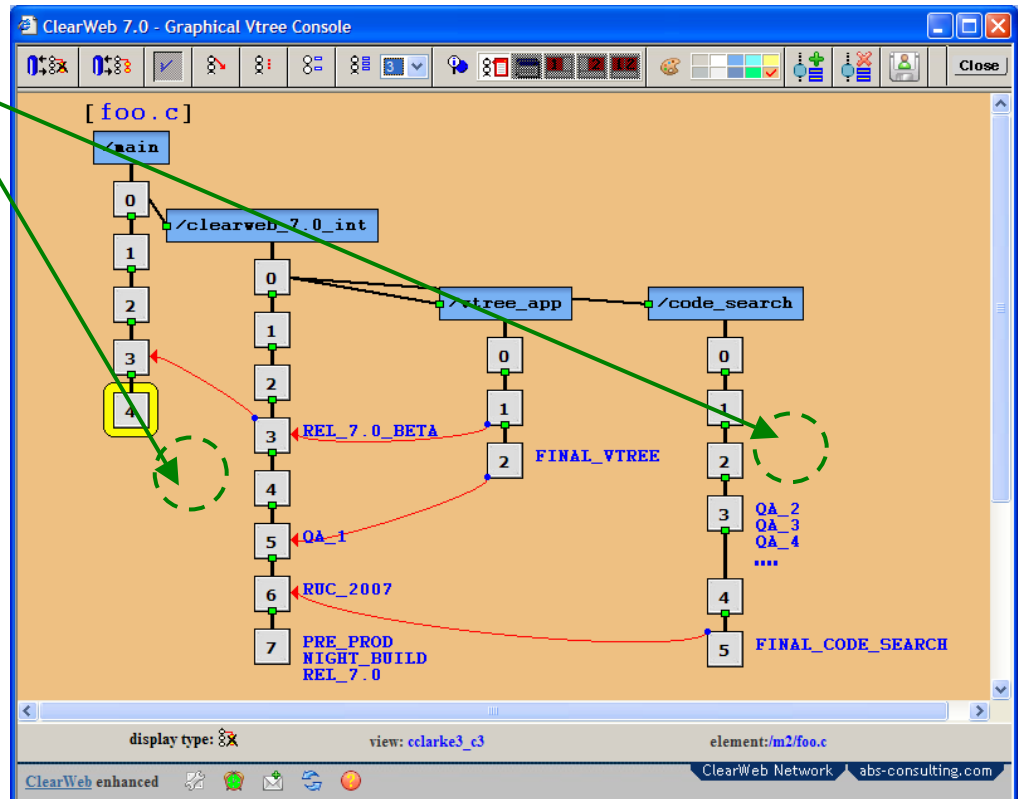
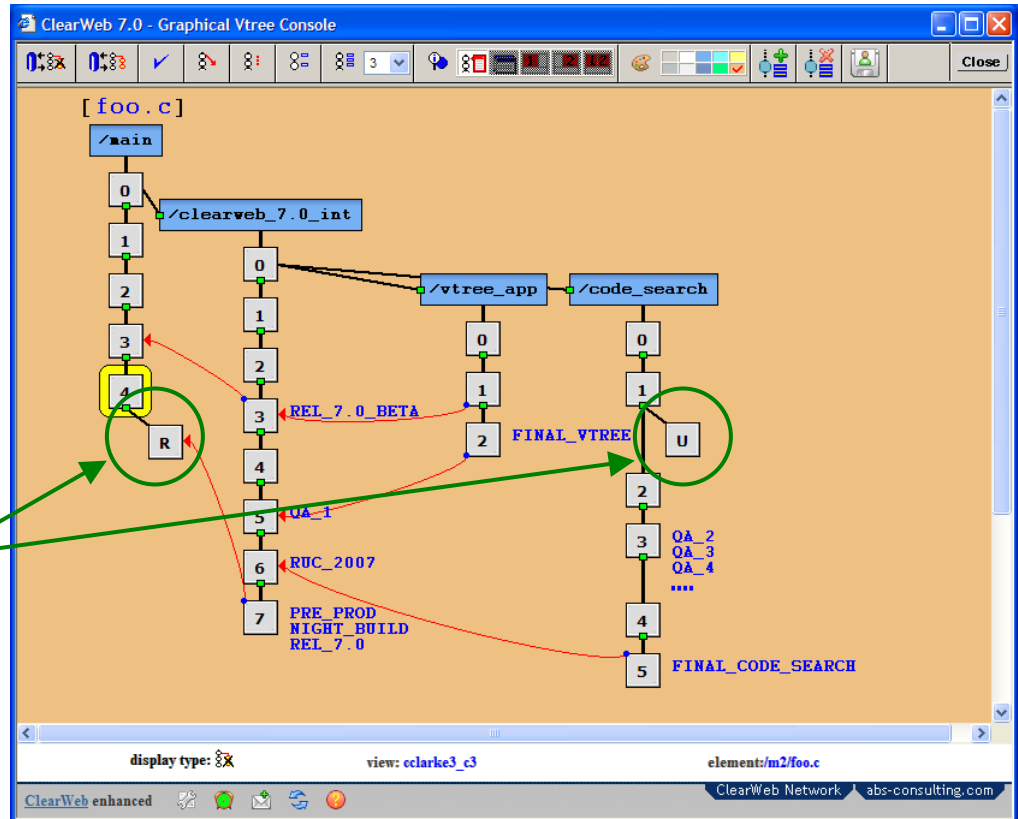
the display of any any checkout data retrieved is currently suppressed.

When displayed, checked out versions appear either as:

**R** for “reserved” or

**U** for “unreserved”

checkouts respectively.



## Show/Hide Vtree Merge Arrows

In order to view or hide ClearCase checkedout versions information from the Vtree Console the user can select the Toggle Merges Menu Option from the menu toolbar of the ClearWeb Vtree Console.



Selecting this option will toggle whether or not merge arrows are displayed.

If the Toggle Merge Menu options appears “flat”



any merges retrieved are currently being displayed.

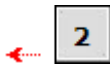
If the Toggle Merge Menu options appears “depressed”



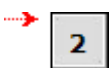
the display of any any merge data retrieved is currently suppressed.

There are **three (3)** kinds of merge arrows that can be displayed:

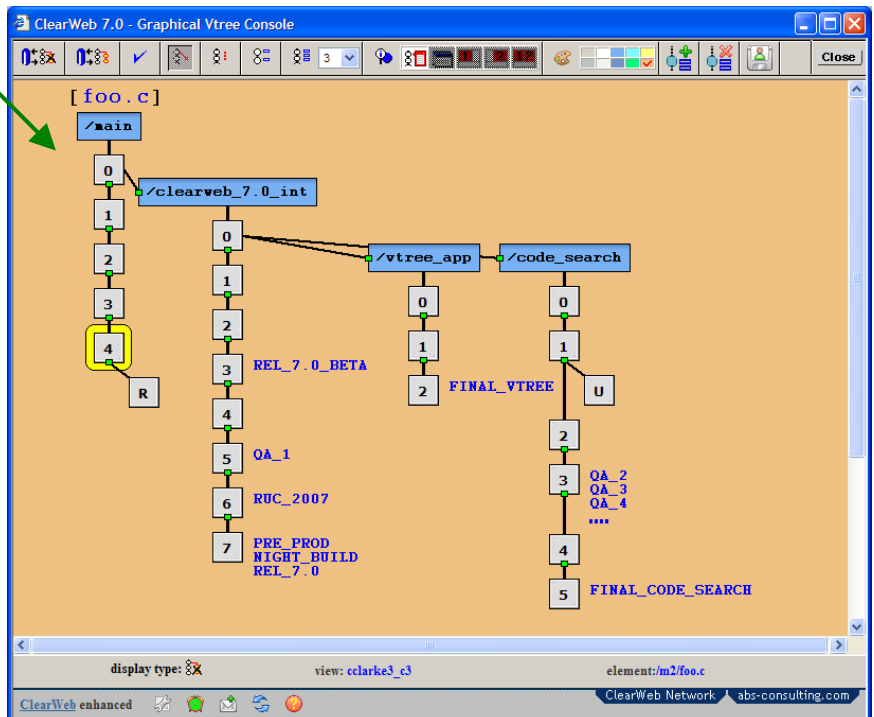
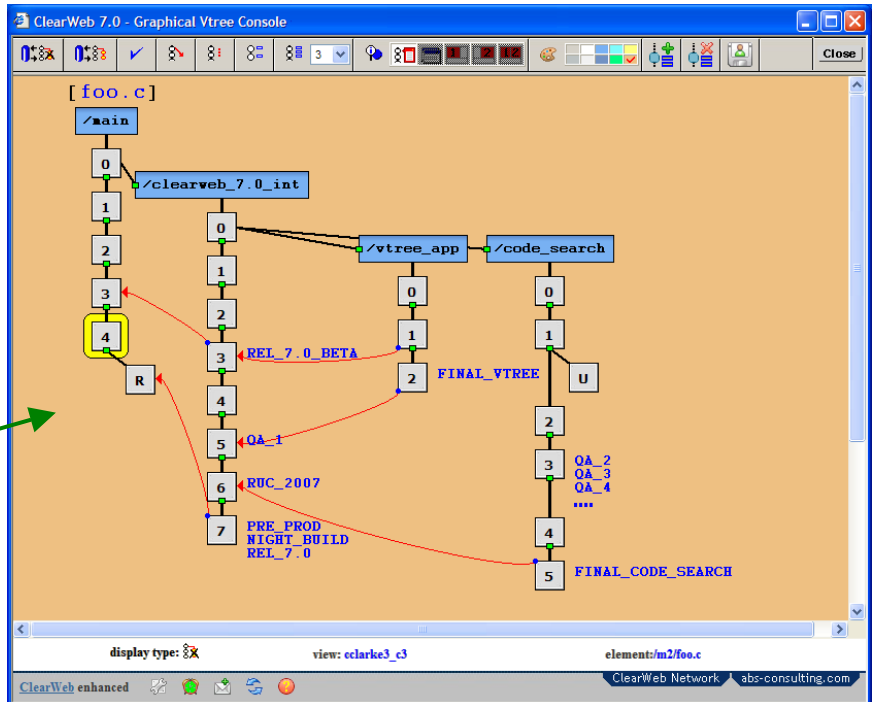
- 1) **origination visible**: where the origination version is visible, but the destination version is hidden, for example:



- 2) **destination visible**: where the destination version is visible, but the origination version is hidden, for example:



- 3) **fully visible**: where both the destination and origination version are visible, for example



## Show/Hide Vtree Uninteresting Versions

In order to view or hide “*uninteresting*” ClearCase versions information from the Vtree Console the user can select the Toggle Unimportant Versions Menu Option from the menu toolbar of the ClearWeb Vtree Console.



Selecting this option will toggle whether or not uninteresting versions are displayed. Where a version is deemed “uninteresting” if it currently:

- has no label applied to it
- is not checked out
- is not a checkout itself
- is not the latest on a branch
- is not a branch point

If the Toggle Uninteresting Menu options appears “flat”



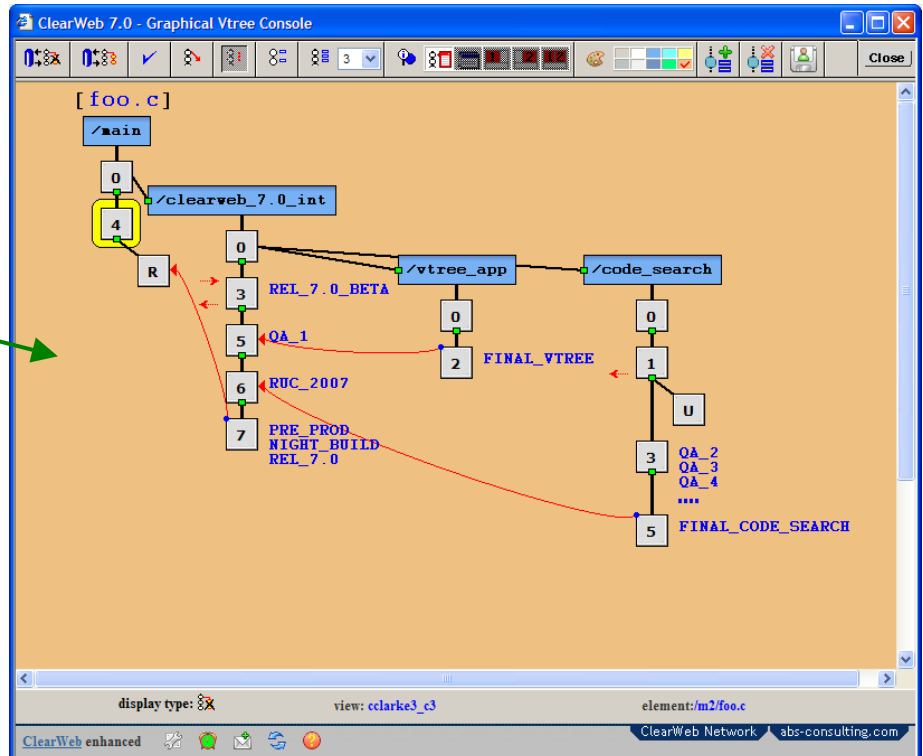
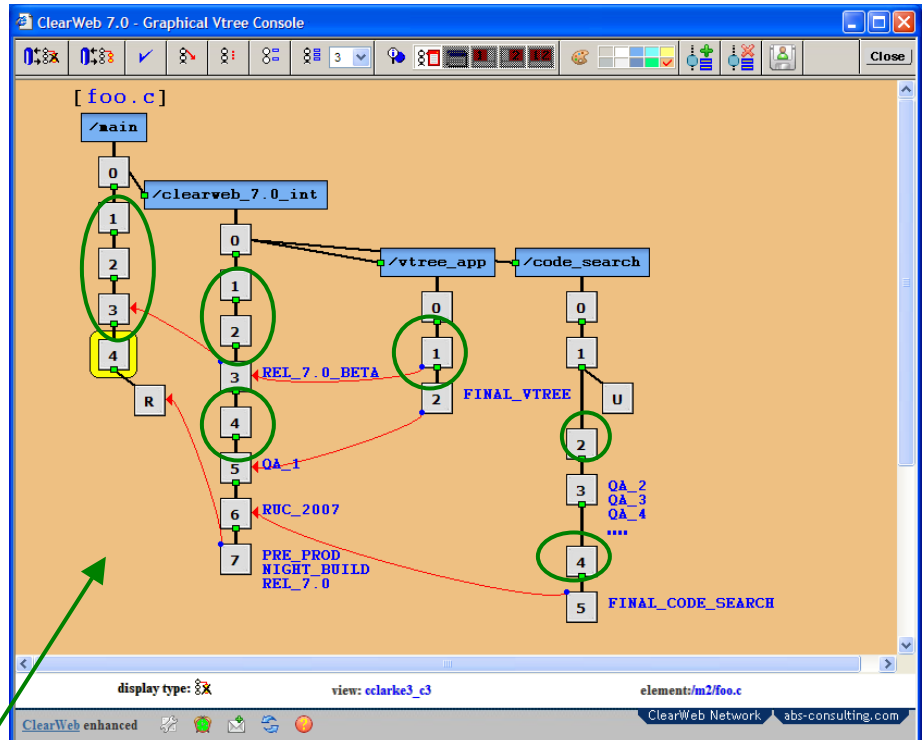
uninteresting versions retrieved are currently being displayed.

If the Toggle Uninteresting Menu options appears “depressed”





the display of any “uninteresting” version data retrieved is currently suppressed.

When a user elects to hide “uninteresting” versions while displaying merge arrows the merge arrows between interesting and “uninteresting” versions are displayed as “*origination visible*” or “*destination visible*” merges.




## Restoring Vtree Hidden Versions


For convenience, users can elect to hide branches or version children in their display by selecting the green “hide branch” GUI component of a displayed branch  **vtree\_app**

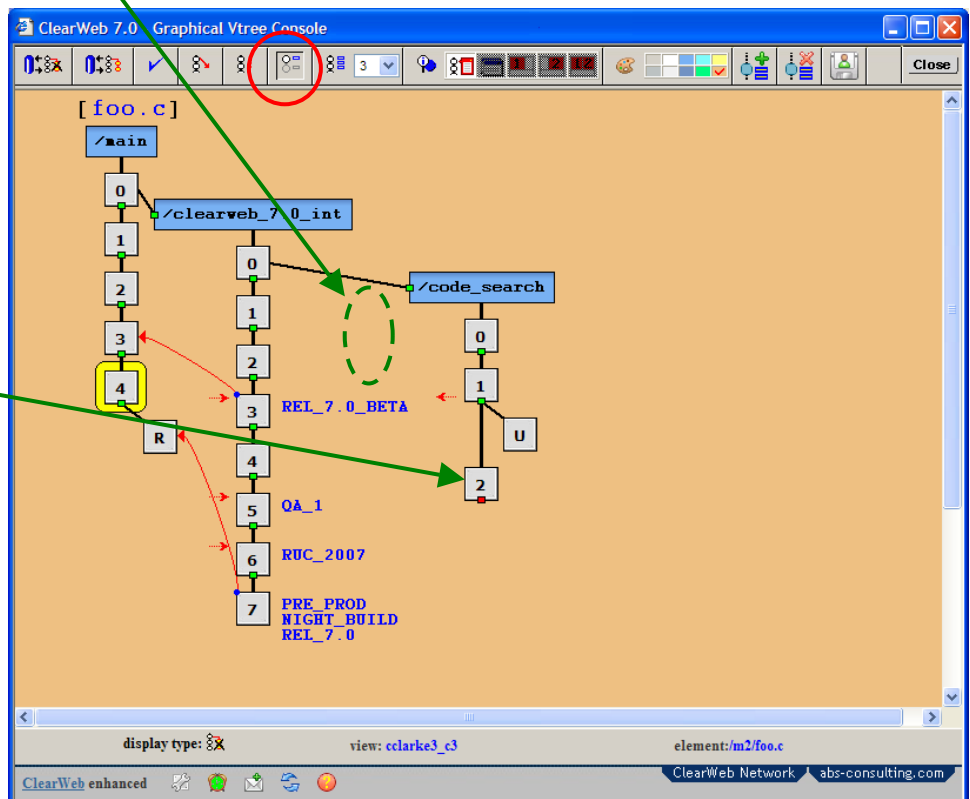
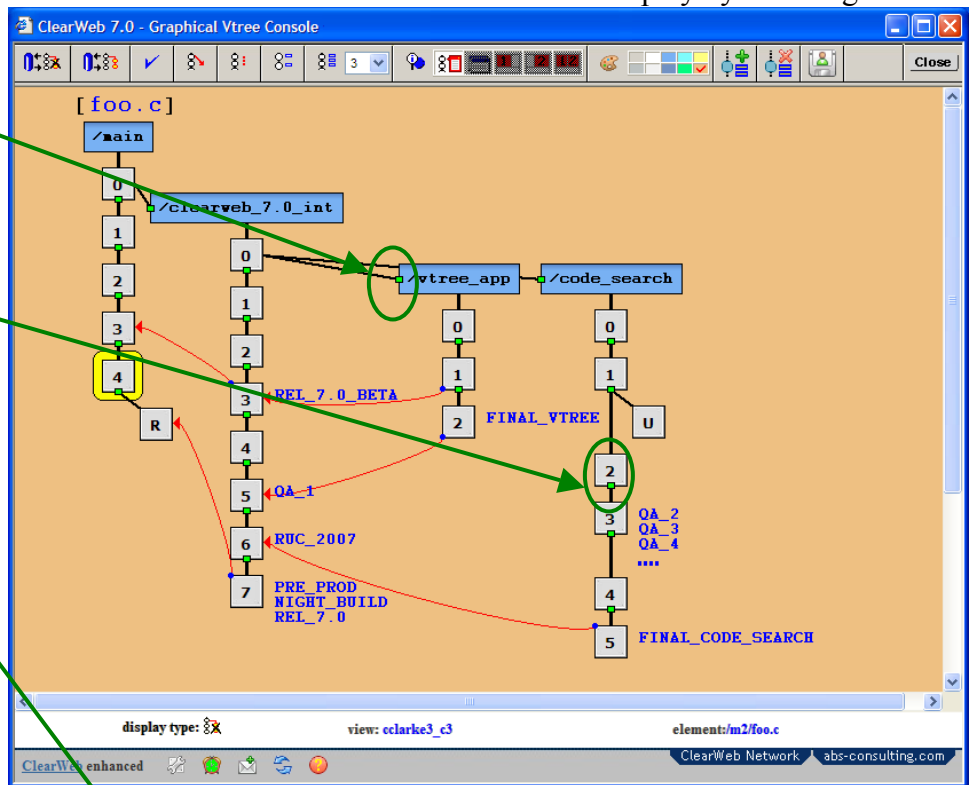
or by selecting the “hide/show children” GUI component of a displayed version. 

When hiding **branches** this action removes the branch itself and any of its child versions or sub-branches from the display.

When hiding **versions** this action removes the first child version and any subsequent children versions and any sub-branches of those children from the display, but the version itself remains.

The user can **restore** the **child versions of a version** whose children were hidden by selecting the now red “hide/show children” GUI component of the still displayed version .

In order to **restore the hidden branch** which was completely removed from the display (or any other hidden branches or versions) the **Restore Hidden Versions** Menu Option From the menu toolbar of the 



## Show/Hide Vtree Labels

In order to view, hide or limit the number of labels that are displayed per version in the Vtree Console the user can select the Show Label Limiter Menu Option from the menu toolbar of the ClearWeb Vtree Console.

Selecting this option will determine how many labels are displayed per version in the current Vtree Console.

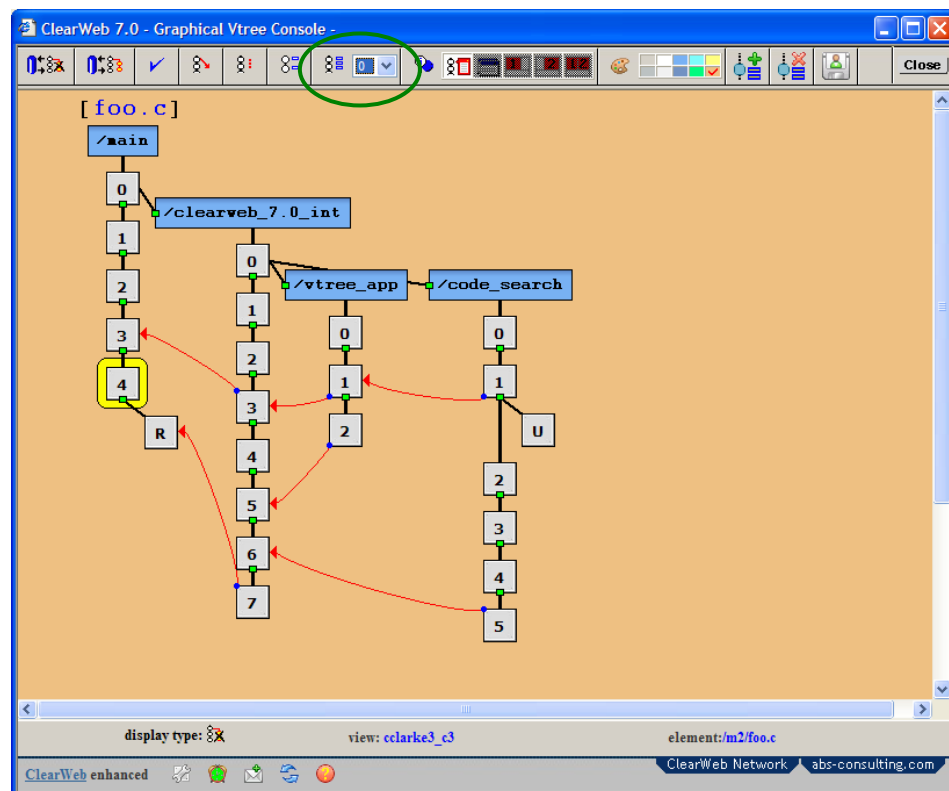
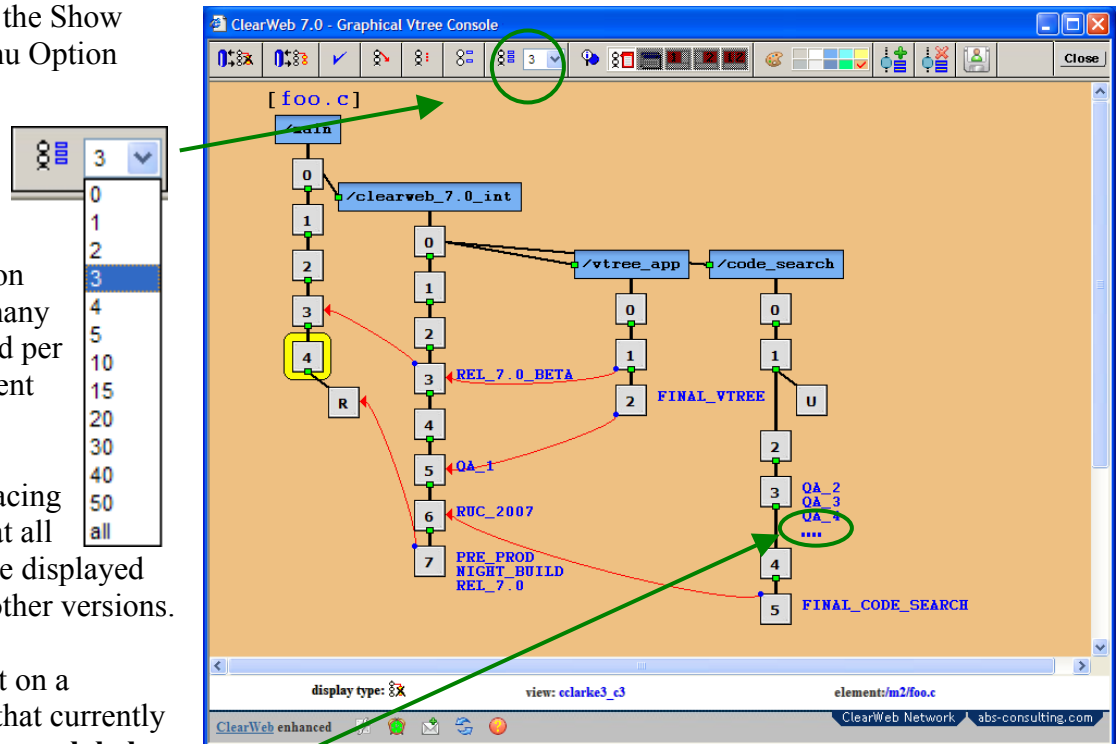
Proper Version spacing is calculated so that all requested labels are displayed without covering other versions.

If more labels exist on a displayed version that currently requested then a “**more labels designator**” .... is also displayed.

So in the case where no more than 3 labels are to be displayed per version where 4 or more labels exist, 3 labels would be displayed as well as the more labels designator” ....

Selecting any label (or the “more labels designator”) will always show all of the labels on the version as per the current information display settings for the current Vtree Console.

Setting the Show label Limitor to “0” will suppress the display of all labels.




## Showing Detailed Vtree Information Options

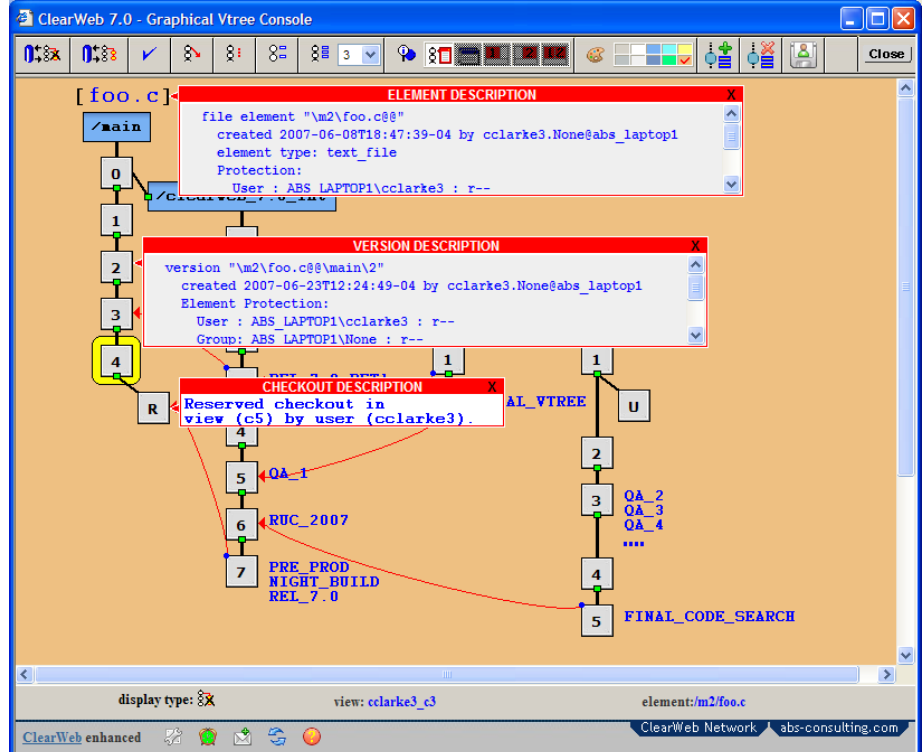
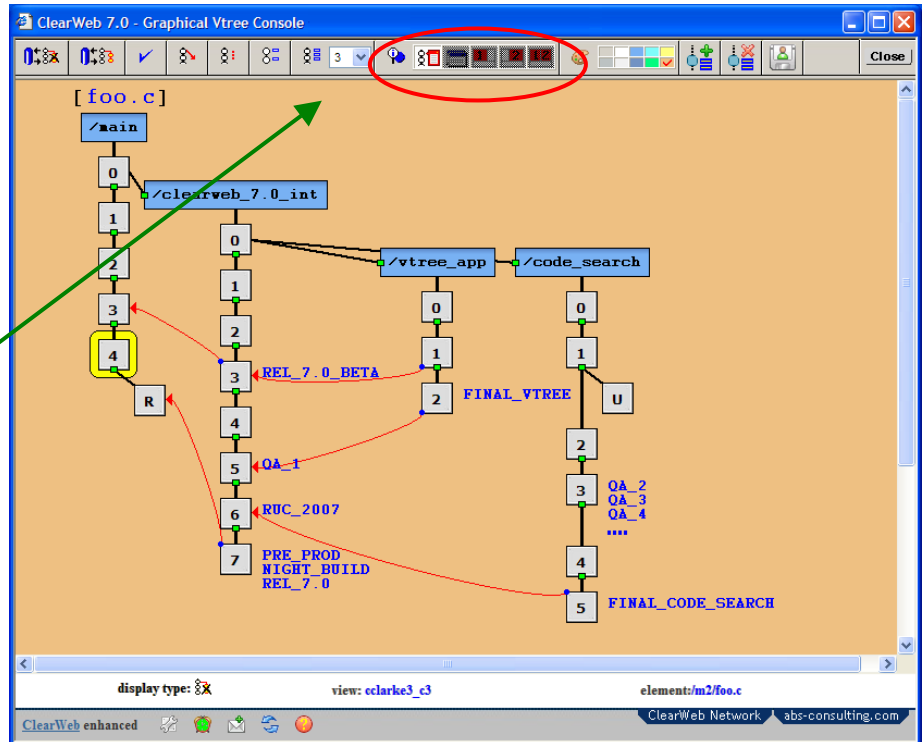
All ClearCase objects (elements, branches, versions, checkouts, labels and merges) displayed in the Vtree Console are selectable and thus can have more detailed information displayed on that item by selecting the item with your pointing device. Where this information is displayed depends on the current **Information Display Menu Option** settings for the current Vtree Console.




One of the five options can be selected and in use at any time and each will cause the display of additional information on ClearCase objects to appear in different locations when requested.

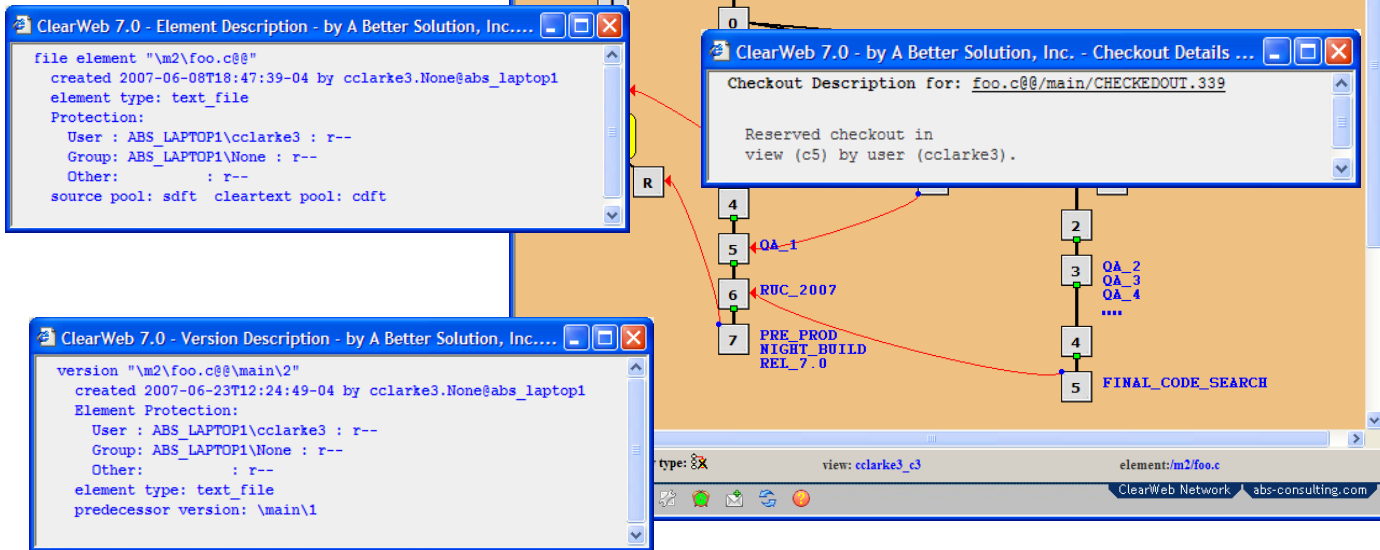
If the “in-place” information


option  is selected, all request for detailed information on ClearCase objects appear in “in-place” windows within the display portion of the Vtree Console.







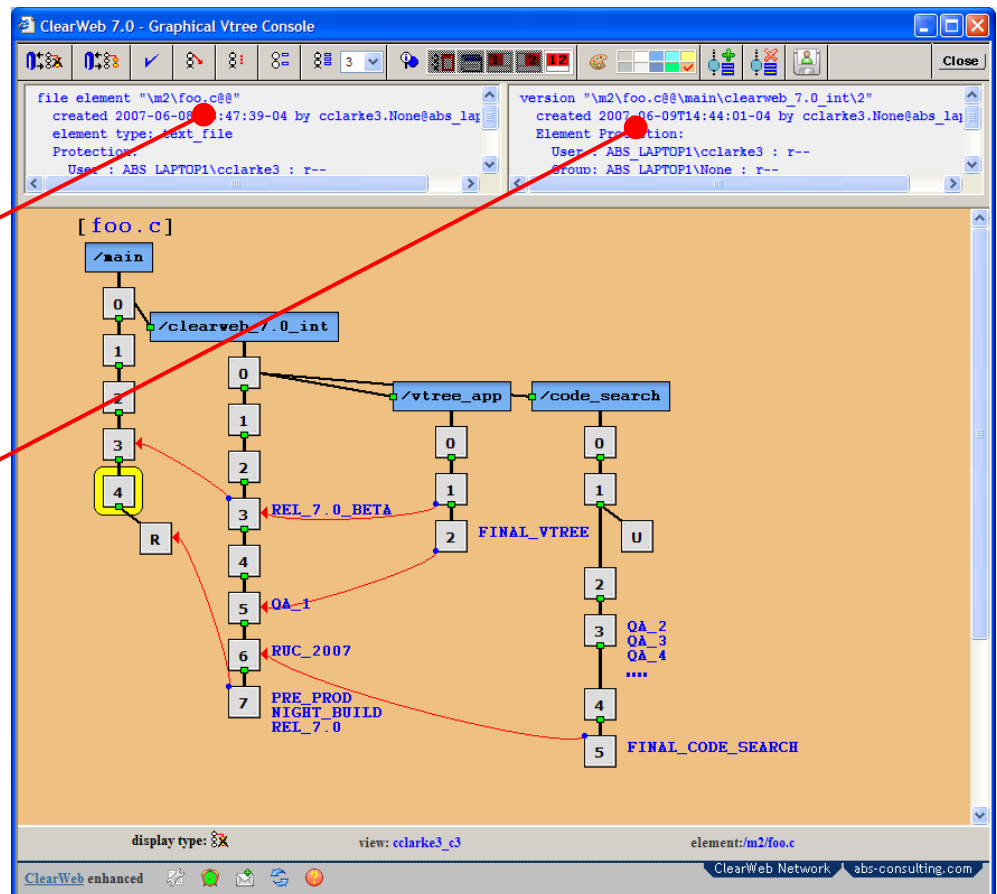
If the “new-window” information option  is selected, all request for detailed information on ClearCase objects appear in “new” independent information windows.



If the **static-window #1** information option  is selected, all request for detailed information on ClearCase objects appear in **information windows #1**.

If the **static-window #2** information option  is selected, all request for detailed information on ClearCase objects appear in **information windows #2**.

If the **static-window #1-2** information option  is selected, all request for detailed information on ClearCase objects toggle between **window #1** and **window #2**.

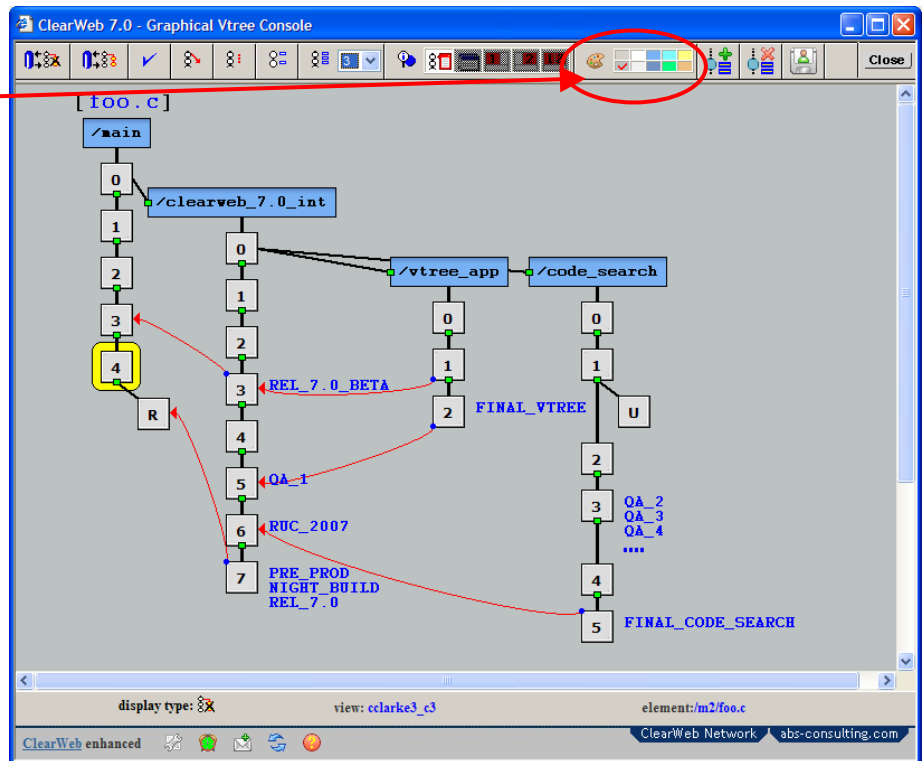
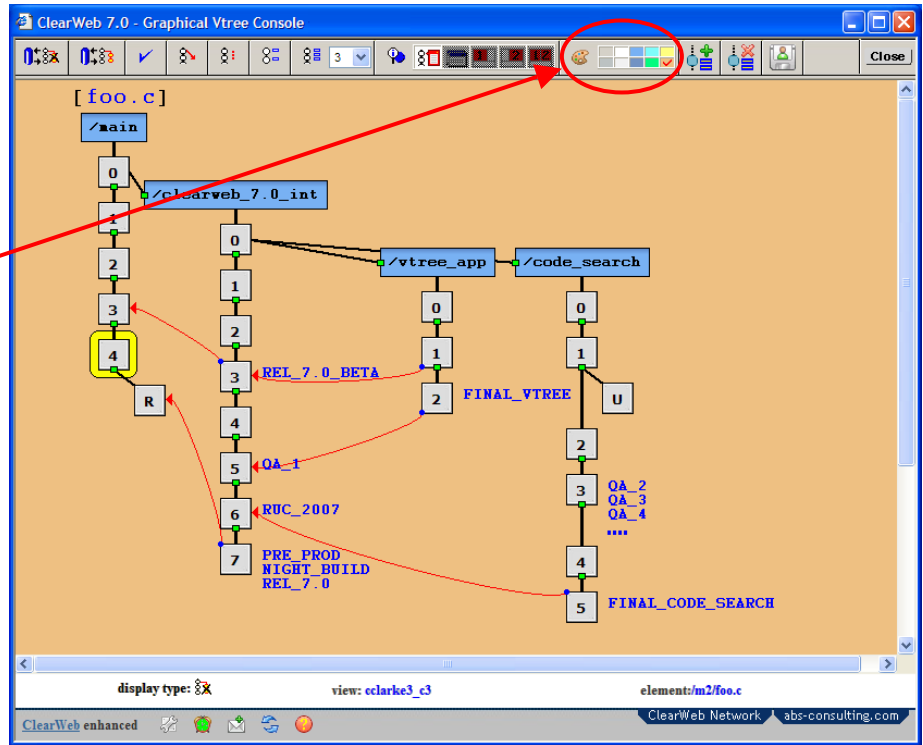


## Setting the Vtree Display Background

When new Vtree Console are instantiated the background color used is calculated from the users last saved background preference, however the user can change the background of any Vtree Console instance at any time by selecting the desired background color from the **Background Palette Menu Option** from the menu toolbar of the ClearWeb Vtree Console.

When a use selects a new color (unchecked color) the display color changes for the Vtree Console instance.

For example selecting the new color below results in this window





## Applying labels to versions in the Vtree

Users can use the Vtree Console to manipulate ClearCase labels on displayed versions. In order to apply or move labels from versions in the Vtree Console the user can select the

### Add/Move Label Menu

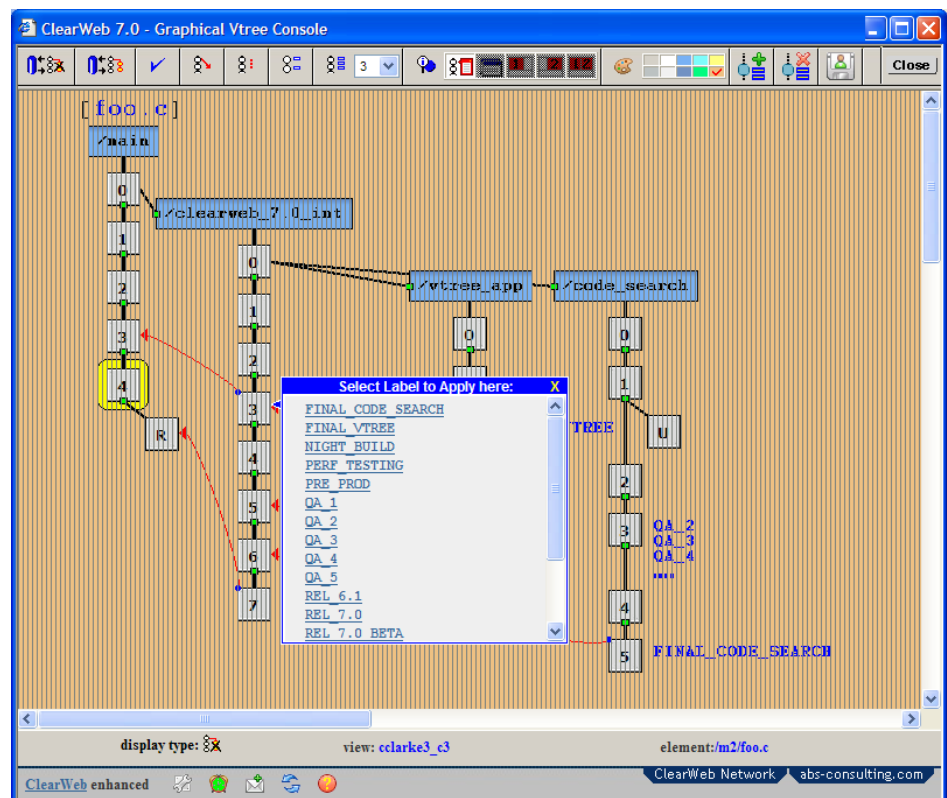
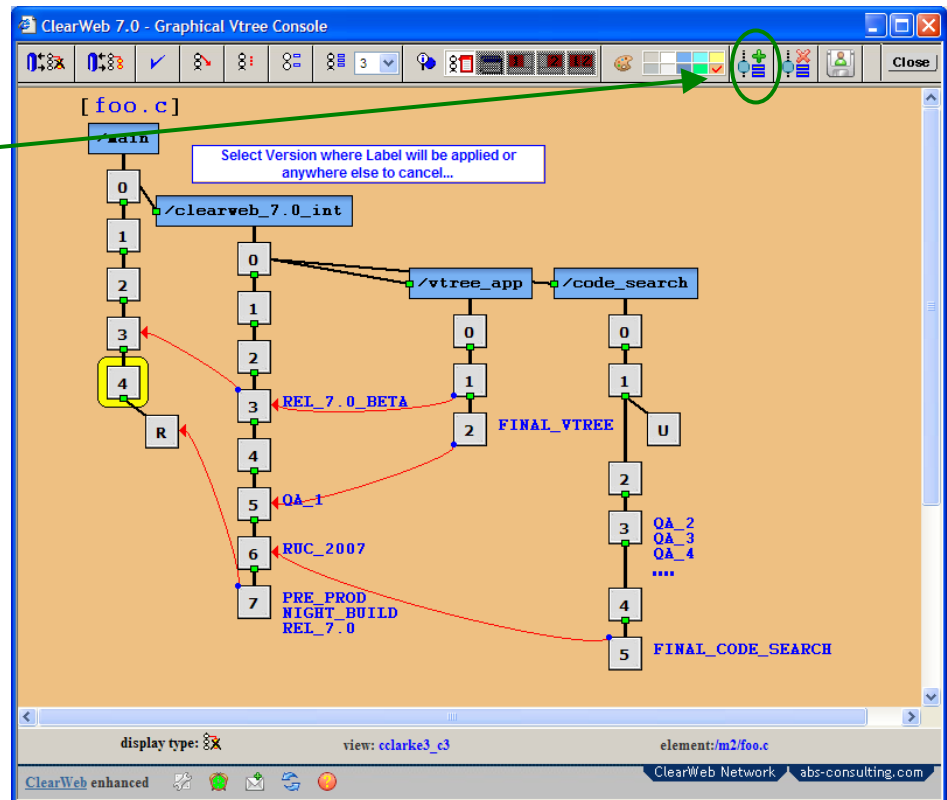
#### Option

from the menu toolbar of the ClearWeb Vtree Console.

Selecting this option will change the display to “selection” mode, the user can then select the displayed version to which they wish to apply or move a label, selection of a non-version will cancel the label application process and return the display to “display” mode.

If a version is selected then a **Label Selection Dialog** is that list all labels in the VOB. Both locked and unlocked labels are displayed, but the user may only select an unlocked label to apply.

The user can cancel the whole apply/move label process at anytime by closing the label selection dialog.



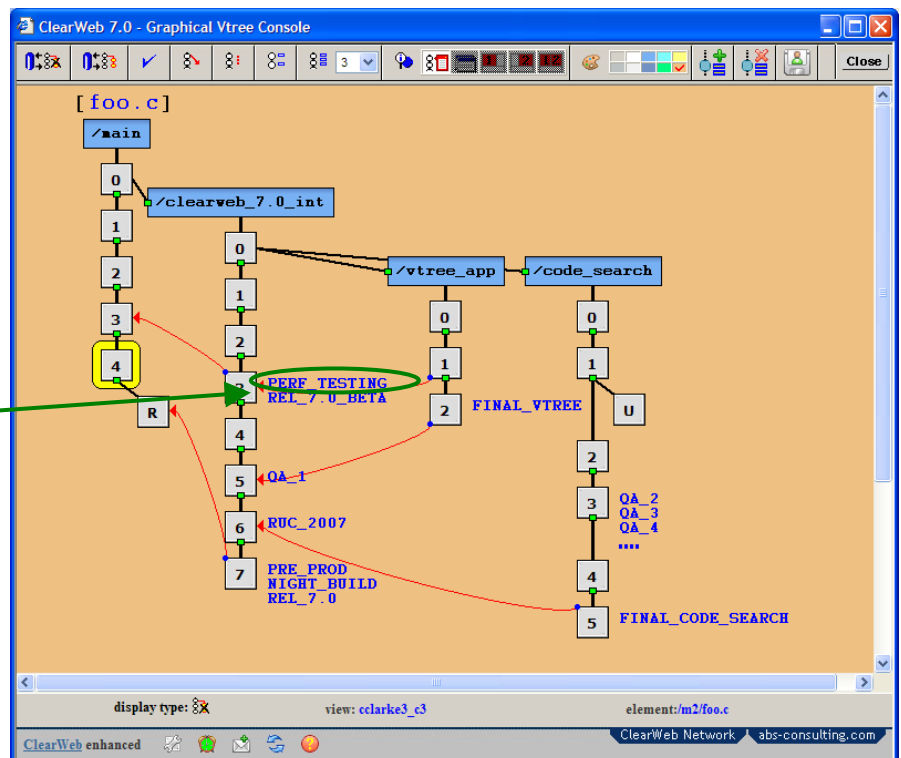
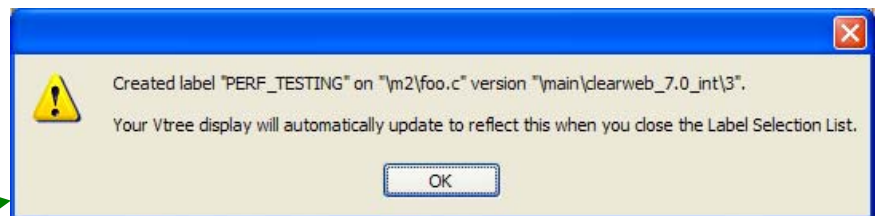
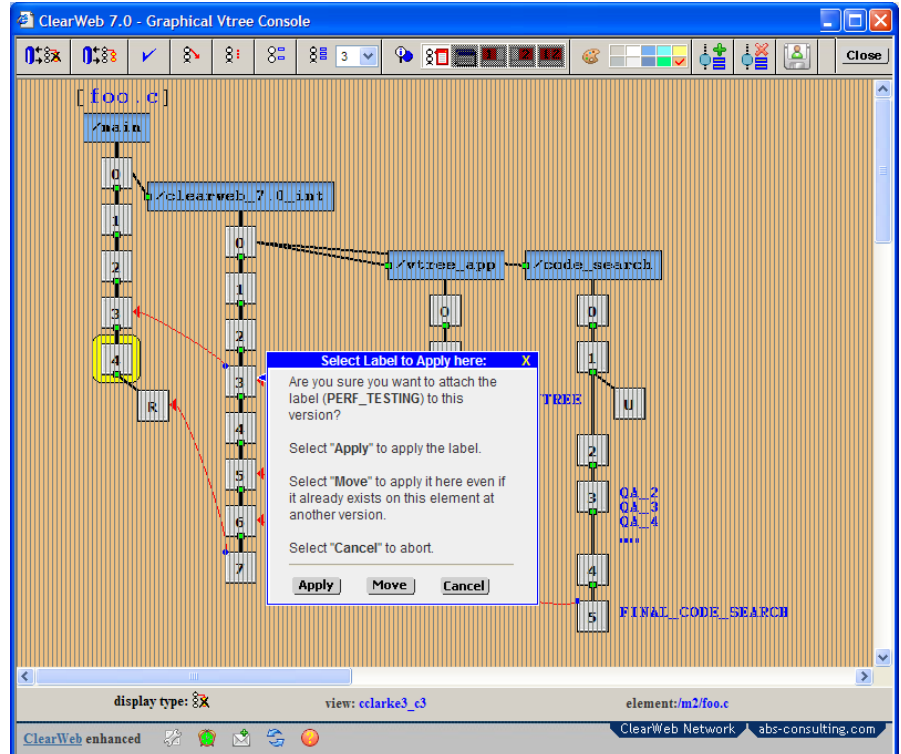
Once the user has selected an unlocked label they are shown a **Label Confirmation Dialog** that displays the label selected and the version selected.

The user can select “Apply” to attach the label to the version, select “Move” to move the label to the version if it exists on another version or select “Cancel” to cancel the application of that label and return to the label selection dialog.

The user can still cancel the whole apply/move label process at anytime by closing the Label Confirmation Dialog at any time.

If the user selects “Apply” or “Move” then the ClearCase label application is attempted and any results displayed in an **informational dialog** similar to this one.

Once OK is selected the Label Selection dialog is again displayed to provide the option of applying more labels. Once the **Label Selection Dialog** is closed, the display is updated with the remote VOBs data to display any change, if and only if there was at least 1 successful label application or move performed.



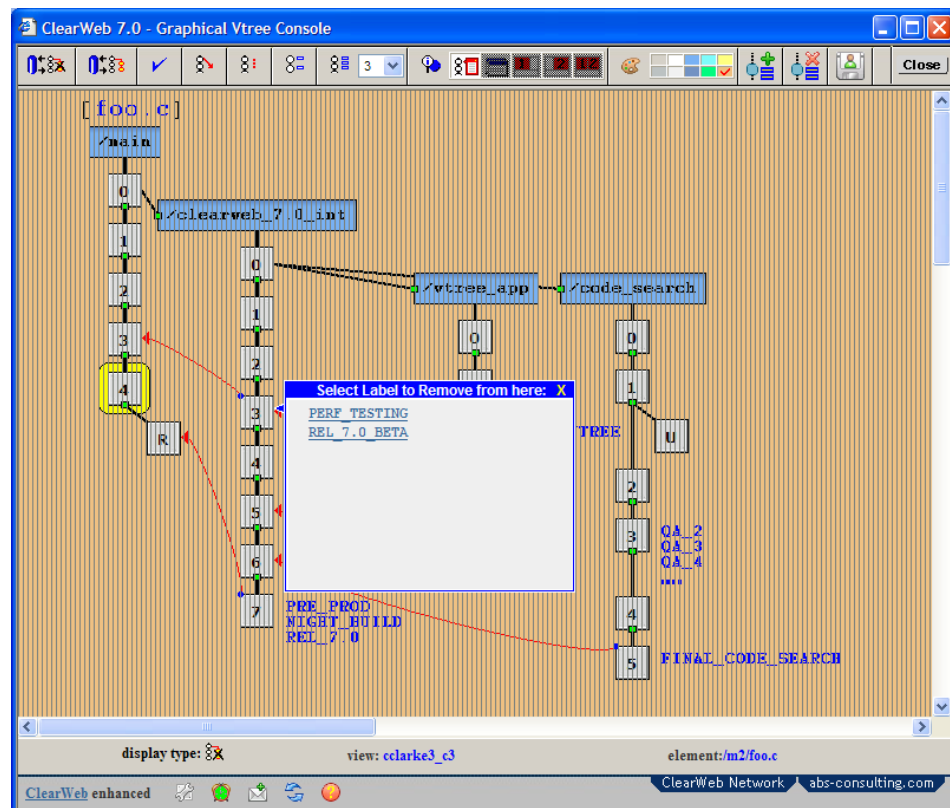
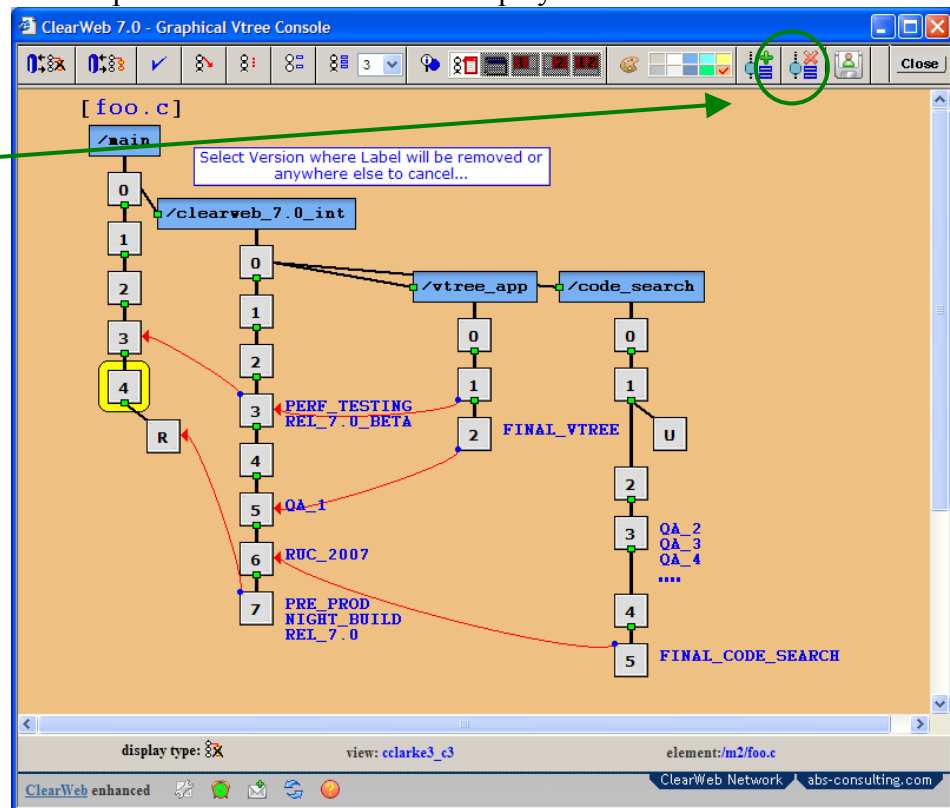
## Removing labels from versions in the Vtree

Users can use the Vtree Console to manipulate ClearCase labels on displayed versions. In order to remove labels from versions in the Vtree Console the user can select the **Remove Label Menu Option** from the menu toolbar of the ClearWeb Vtree Console.

Selecting this option will change the display to 'selection' mode, the user can then select the displayed version from which they wish to remove a label, selection of a non-version will cancel the label removal process and return the display to "display" mode.

If a version is selected then a **Label Selection Dialog** is that list all labels on that version.

The user can cancel the whole remove label process at anytime by closing the label selection dialog.



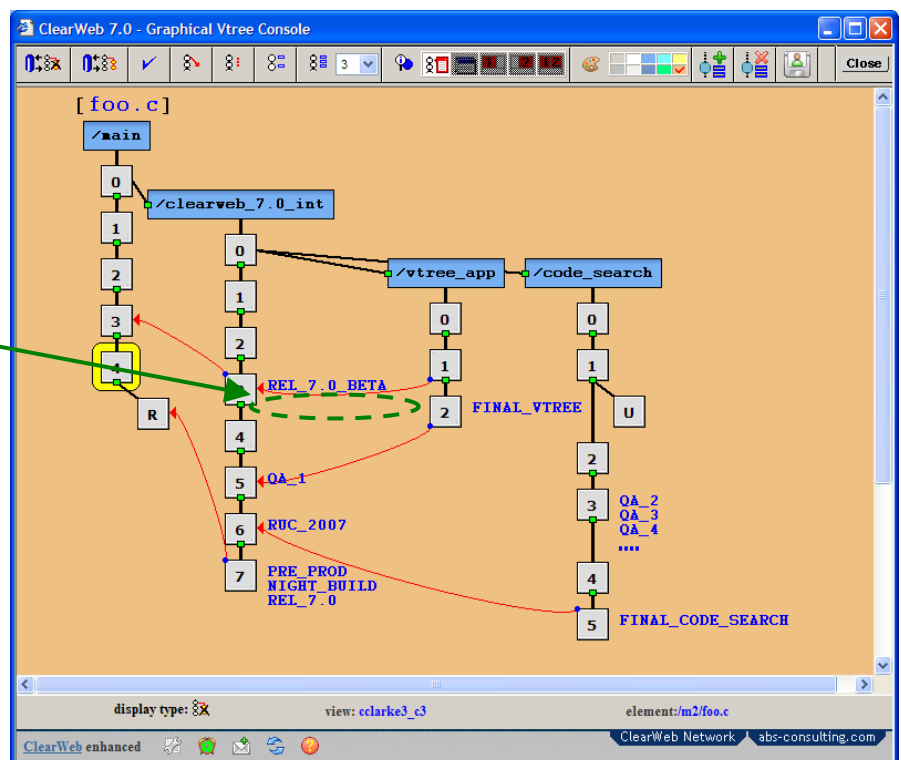
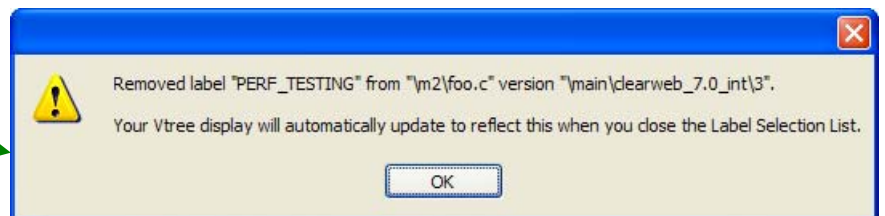
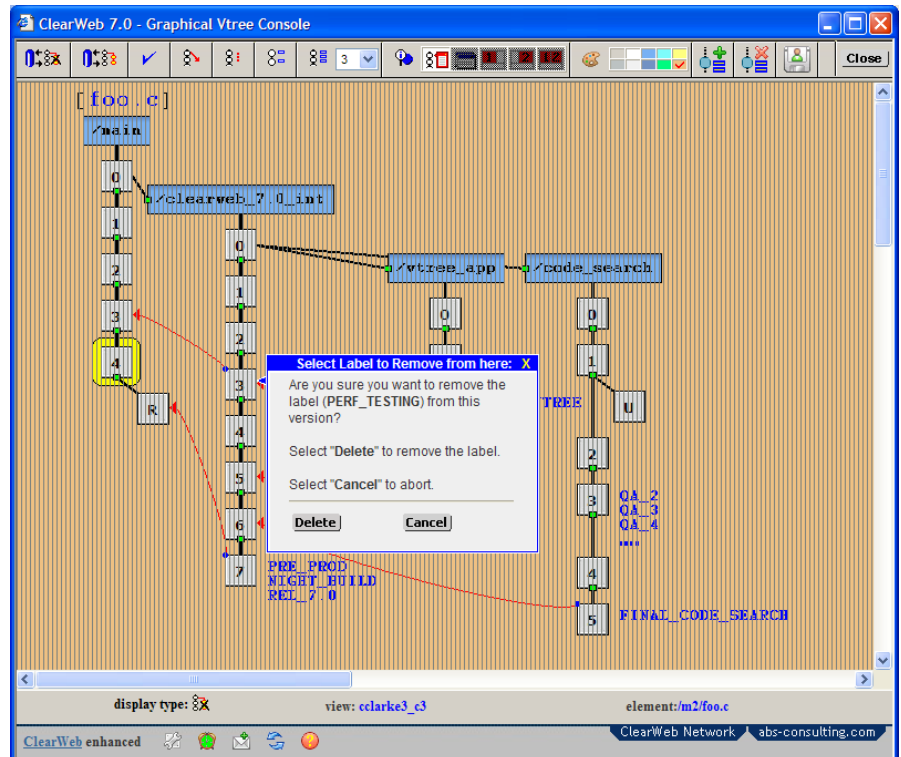
Once the user has selected an label they are shown a **Label Confirmation Dialog** that displays the label selected and the version selected.

The user can select “Delete” to remove the label from the version or select “Cancel” to cancel the removal of that label and return to the label selection dialog.

The user can still cancel the whole remove label process at anytime by closing the Label Confirmation Dialog at any time.

If the use selects “Delete” then the ClearCase label removal is attempted and any results displayed in an **informational dialog** similar to this one.

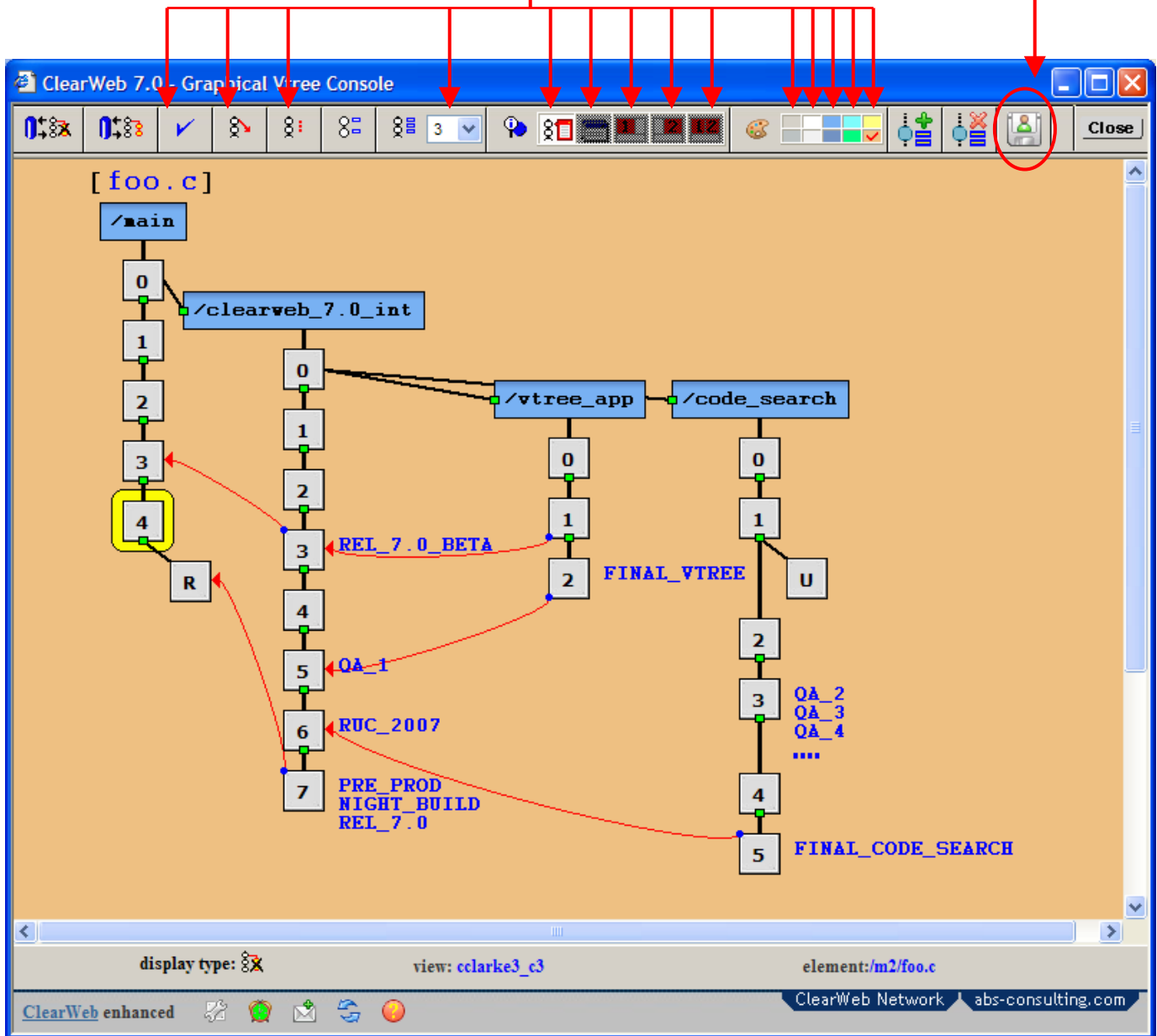
Once OK is selected the Label Selection dialog is again displayed to provide the option of removing more labels. Once the **Label Selection Dialog** is closed, the display is updated with the remote VOBs data to display any change, if and only if there was at least 1 successful label removal performed.



## Saving Vtree Display Options

Users can save their Vtree Display Settings from any current Vtree Console to be the default settings for any future Vtree Console by selecting the **Save Settings Menu Option** from the menu toolbar of the ClearWeb Vtree Console.

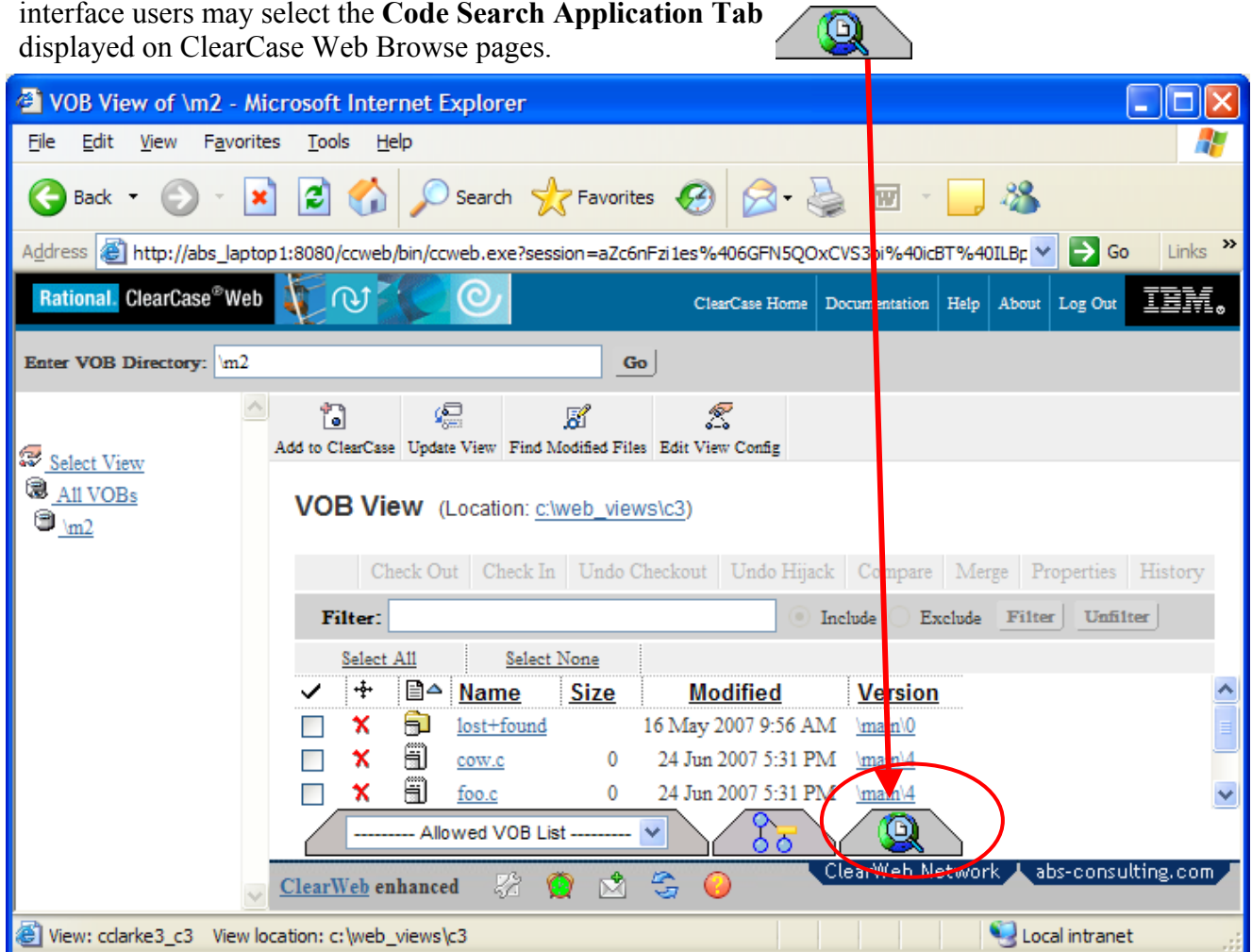
Selecting this option will save the current settings as the user's default settings for newly opened Vtree Console instances.  
The settings that are saved are indicated below.



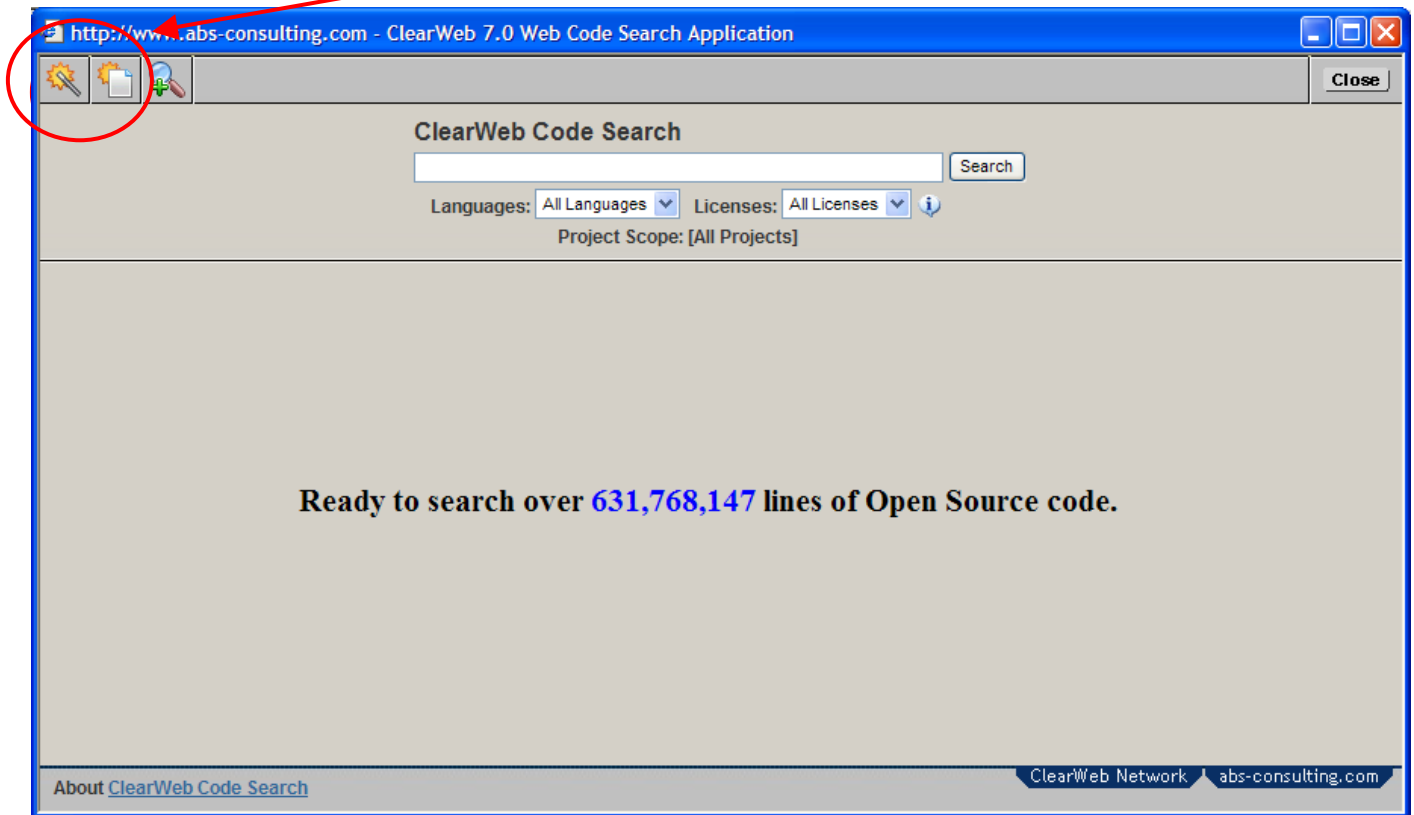


## ClearWeb Code Search Integration (new to 7.0)

ClearWeb facilitates the reuse of already developed and tested code from trusted sources to save the ClearWeb developer time and effort. ClearWeb is integrated with an Open Source Code Search Utility and if this allowed by your ClearWeb Administrator you can take advantage of the source code search technology. To open the **Code Search Application** on the ClearWeb enhanced ClearCase Web interface users may select the **Code Search Application Tab** displayed on ClearCase Web Browse pages.



Selecting the tab will open the application (hosted at the ABS website). The **Code Search Application** is a separate application that ClearWeb integrates to and as such the Code Search Application can and will change independent of ClearWeb so for details on that application please select the help and getting started icons from within that application.





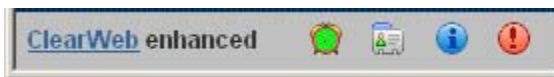
## Administrator Alerts

ClearWeb The administrator can leave highly visible ClearCase relevant messages for their web users whether they are across the hall or on the other side of the world, even if they don't know their names or email addresses. No longer must one leave messages for many non-ClearCase users to ensure that all ClearCase Web users are informed. No longer is it necessary to maintain list of user that use ClearCase Web; the list maintains itself. All web users can read them when they use ClearCase Web.

There are three (3) kinds of static message that can appear on the ClearWeb Toolbar:

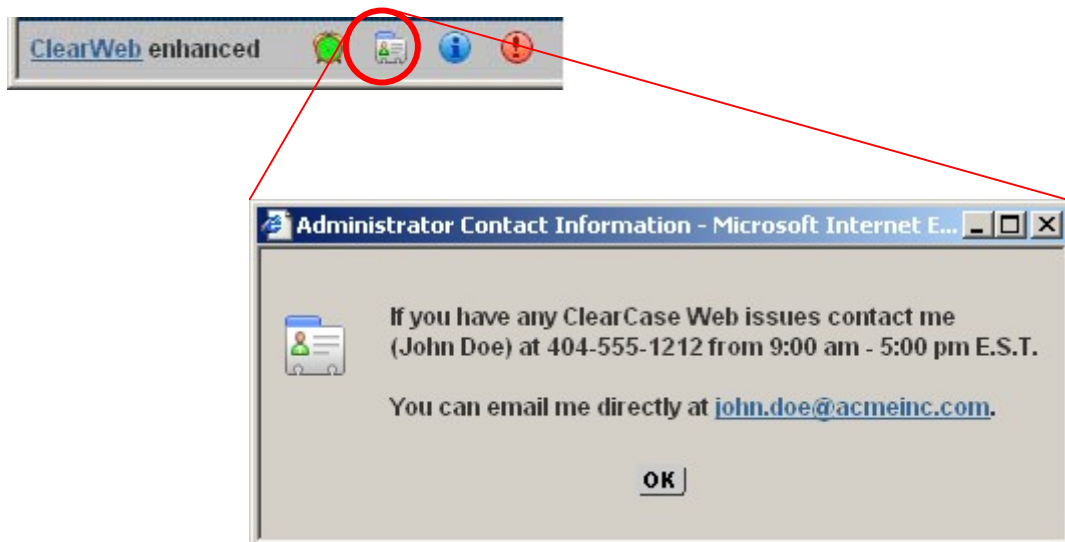
- [VCARD \(Virtual Business Card\)](#)
- [MOTD \(Message-of-the-Day\)](#)
- [WOTD \(Warning-of-the-Day\)](#)

These static messages are only visible if your ClearWeb Administrator defines them. It should not surprise you that one appears one day and is gone the next. **You should not ignore them when they appear as it means that your ClearWeb Administrator has important information to convey.**



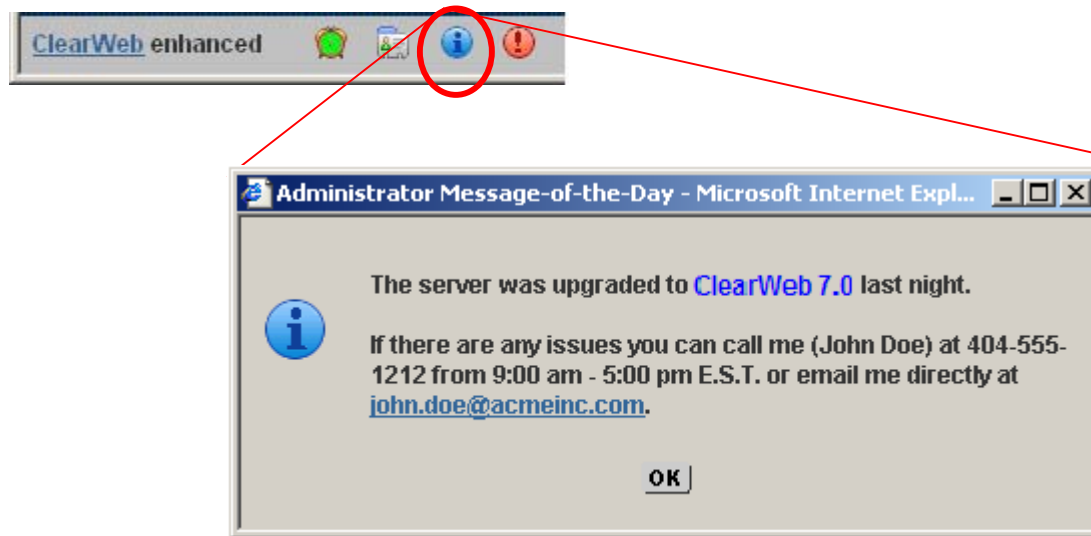
## VCARDS (Administration Virtual Cards)

The VCARD serves as a way for the administrator to “post” their contact information where the web users can see it since many times the administrator is separated from their web users by many time zones and on many occasions they are unfamiliar with one another. The administrator might choose to place their contact information and available contact times here. If the administrator defines a VCARD, you can select the VCARD icon on the toolbar at any time to view it.



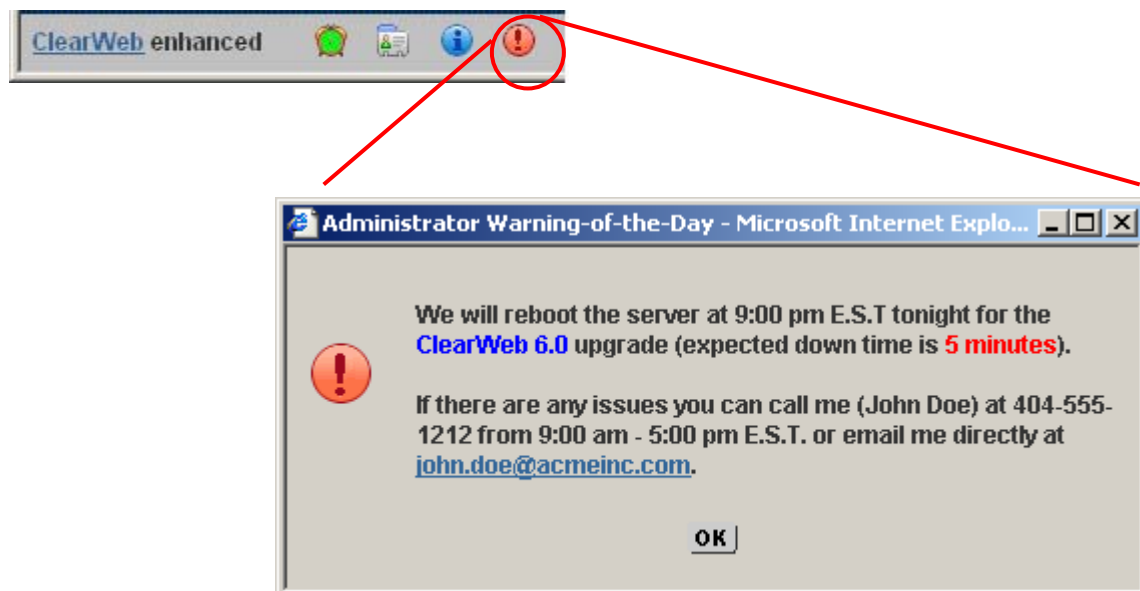
### MOTD (Message-of-the-Day)

The MOTD serves as a way for the administrator to “post” important information where the web users can see it since many times the administrator is separated from their web users by many time zones and on many occasions they are unfamiliar with one another. If the administrator defines a MOTD, you can select the MOTD icon on the toolbar at any time to view it



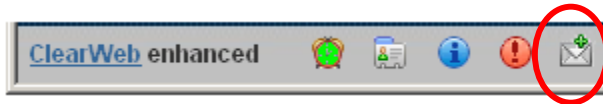
### WOTD (Warning-of-the-Day)



The WOTD serves as another way for the admin to “post” important information where the web users can see it since many times the administrator is separated from their web users by many time zones and on many occasions they are unfamiliar with one another. If the administrator defines a WOTD, you can select the WOTD icon on the toolbar at any time to view it

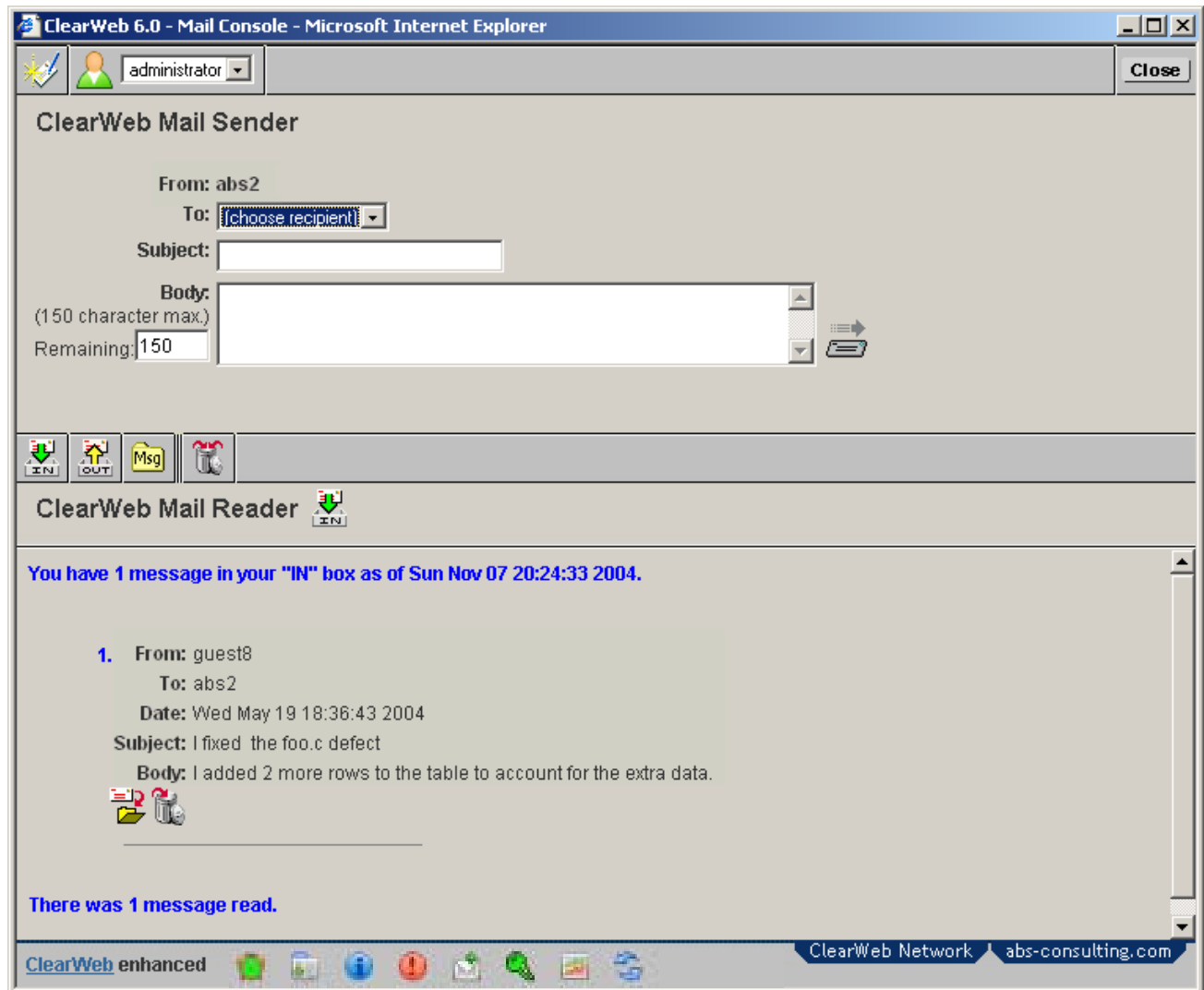


## ClearWeb Peer Mail











ClearWeb facilitates communication between geographically disjoint development groups by providing a common communications platform between these groups (the ClearCase Web Interface). ClearWeb users can communicate with their ClearWeb peers (within the company) to ask or answer questions (ClearWeb related or not) right from the ClearCase Web interface. The user receives the answer where they will most likely need it most (when they are using ClearCase Web).



The Mail icon appears as an open mailbox  if you have mail in your inbox or as a closed mailbox  if you have no mail in your inbox. Selecting either icon will display the ClearWeb Mail application window showing the default “Mail Sender” pane and the “In Box” pane similar to the one below:

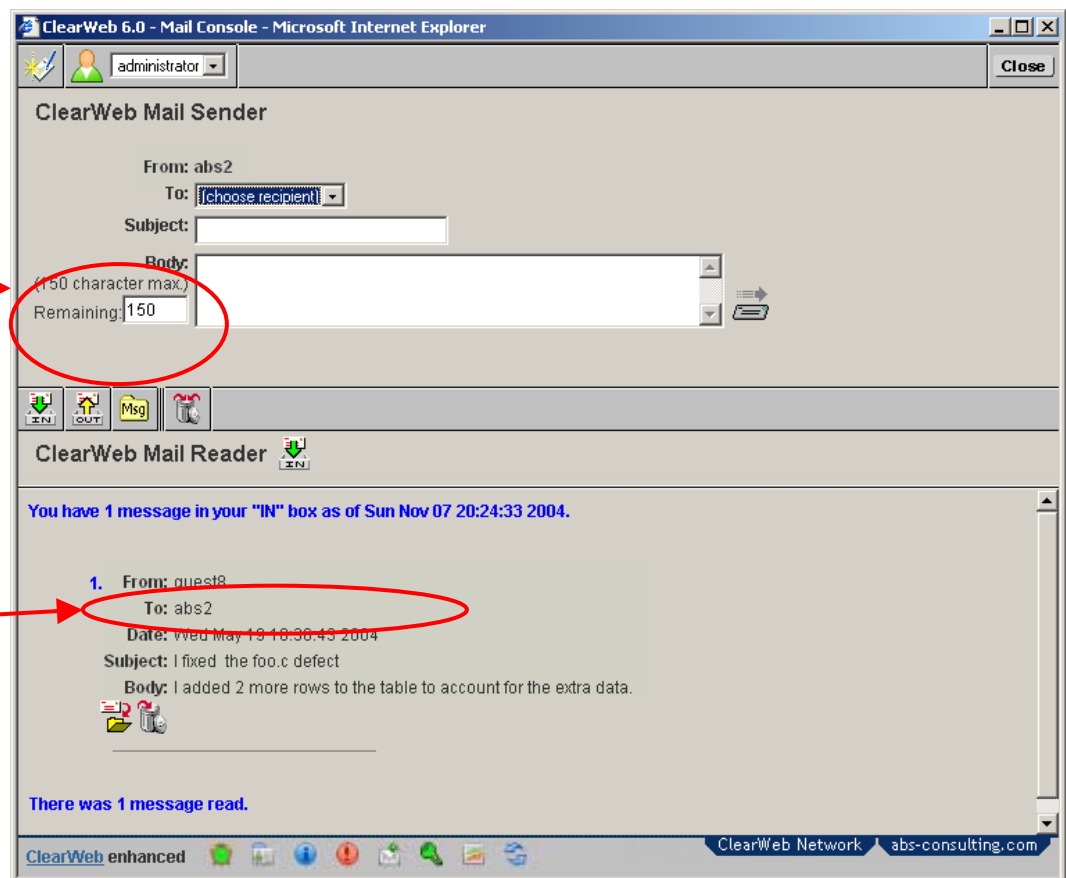


From the Mail Sender” Pane you can compose emails to other ClearWeb peers that those peers will receive when they use the ClearCase Web interface. The icons and their functions are listed below:

Graphical Component	Purpose
	Display the “Mail Sender” pane instead of the “Contact Information” pane.
 guest8	Display the user’s “Contact Information” pane instead of the “Mail Sender” pane.
	Close the ClearWeb Mail Application.
	Send the currently composed message.
	Display the Messages in the current users “In” box.
	Display the Messages in the current users “Out” box.
	Display the Messages in the current users “Saved Messages” folder.
	Delete all messages in the currently viewed mailbox or folder.
	Move the current message from to the “Saved Messages” folder.
	Delete the current message.

Messages are limited in length to 150 characters. The current character count (characters remaining) is displayed here:

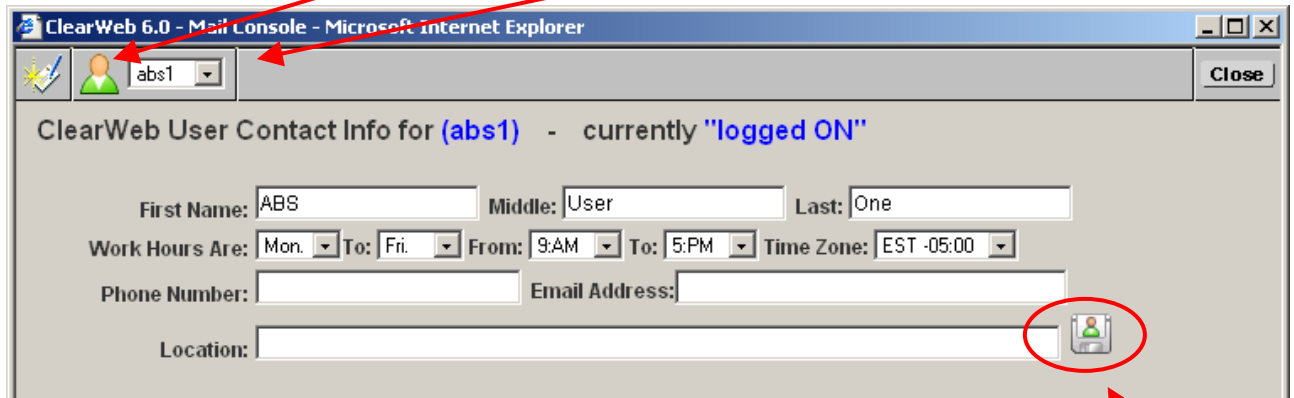
The time displayed is always the ClearCase web server time.



## View/Edit Contact Information

You can update your contact information or view another users contact information. You can only edit your contact information.

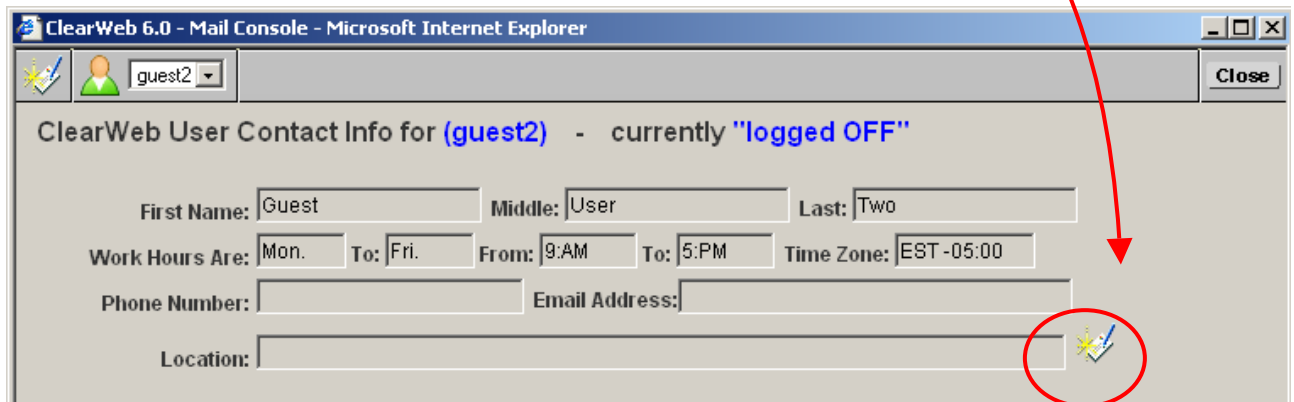
When you select the contact information **icon** or changes the contact information **selected list**, the “Contact Information” pane is displayed.



The screenshot shows the 'ClearWeb 6.0 - Mail Console - Microsoft Internet Explorer' window. The user 'abs1' is selected in the top toolbar. The main pane displays 'ClearWeb User Contact Info for (abs1) - currently "logged ON"'. The form includes fields for First Name (ABS), Middle (User), Last (One), Work Hours (Mon. to Fri. 9:AM to 5:PM, EST -05:00), Phone Number, Email Address, and Location. A red circle highlights the 'save information icon' (a person with a checkmark) in the bottom right corner of the form.

If you are viewing your information then you can edit and save your information by selecting the **save information icon**.



If you are viewing another users information then you can NOT edit this information, but can instead select the **compose mail icon** which will replace this pane with the “Mail Sender” pane with the currently displayed user pre-populated in the **send to** field.



The screenshot shows the 'ClearWeb 6.0 - Mail Console - Microsoft Internet Explorer' window. The user 'guest2' is selected in the top toolbar. The main pane displays 'ClearWeb User Contact Info for (guest2) - currently "logged OFF"'. The form includes fields for First Name (Guest), Middle (User), Last (Two), Work Hours (Mon. to Fri. 9:AM to 5:PM, EST -05:00), Phone Number, Email Address, and Location. A red circle highlights the 'compose mail icon' (a person with a checkmark and a mail icon) in the bottom right corner of the form.


## End-User Custom Links

Your ClearWeb Administrator can place icons in the ClearWeb toolbar that open other web pages or applications for your use. Your administrator can change these icons, what they link to or the application they open at any time; your administrator can even remove them altogether.

Any Icons that appear between the mail icon  and the refresh Icon  are custom applications that your administrator has made available for you.




## ClearWeb Network

You can connect to the ClearWeb Network at any time by selecting the  tab within the ClearWeb interface. This links you to the ClearWeb network where users can join forums, exchange information, receive support on ClearWeb or other ABS products, sign up for product patch/upgrade notification, share your ideas, take advantage of the ideas of others or request a company-specific forum that can only be accessed by your company personnel. **Consider the network your first resource for ClearWeb support.** Registration is easy and free.




## ClearWeb Dynamic Web Help

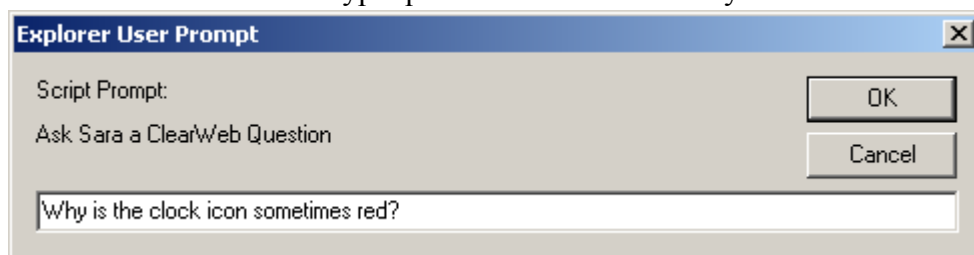
If allowed by your ClearWeb Administrator you also have access to the ClearWeb Dynamic Help application. It requires an active Internet connection. If made available by your ClearWeb Administrator the ClearWeb Help Icon  appears on ClearWeb Toolbars.



Selecting the

ClearWeb Help Icon will result in the Web Help Application below:

Here you can get help on ClearWeb by navigating active links or images or even select the “Ask Sara” button  to type questions that Sara will try to answer.



Sara will take you to the best page for the answer, speak on the answer or both.

If Sara cannot answer the question, she will give you the option to send it to ABS

support, where they will answer for you and also teach Sara how to answer that question in the future. Sara is updated with new ClearWeb questions daily as needed.

## ClearWeb Client-Side Interactive Dialogs

When using ClearWeb, interactive dialogs are available for both standard ClearCase users and ClearCase web-users. Examples of standard dialogs (displayed for standard users) and web-dialogs (displayed for web users) are displayed in the following sections

### ClearWeb - Question Dialogs

A sample **Question Dialog** for a ClearCase non-web user is shown in Fig. 1. The same dialog for a web user is shown in Fig. 2.

Fig. 1

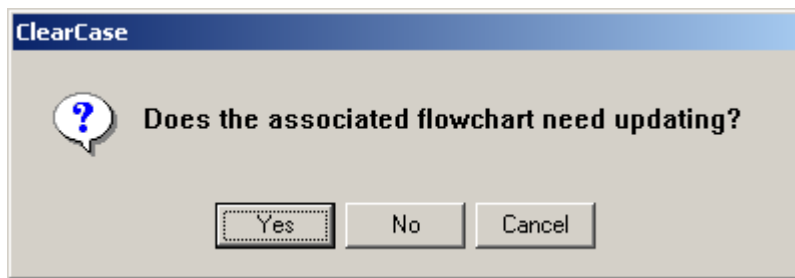
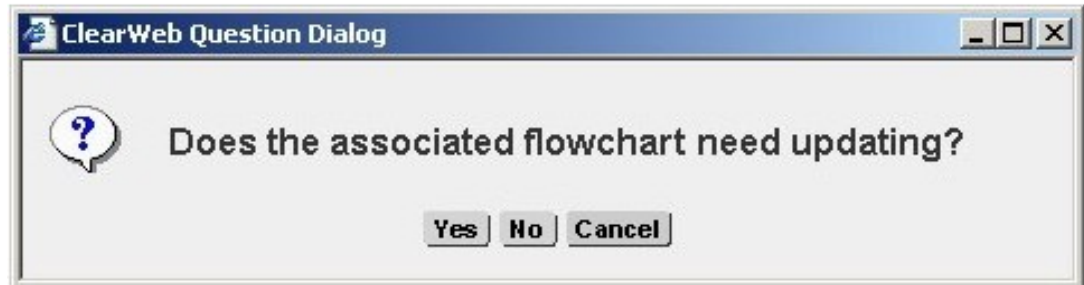


Fig. 2





## ClearWeb - Prompt Dialogs

A sample **Prompt Dialog** for a ClearCase non-web user is shown in Fig. 3. The same dialog for a web user is shown in Fig. 4.

Fig. 3

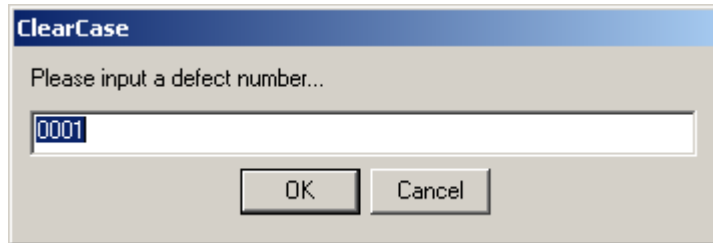
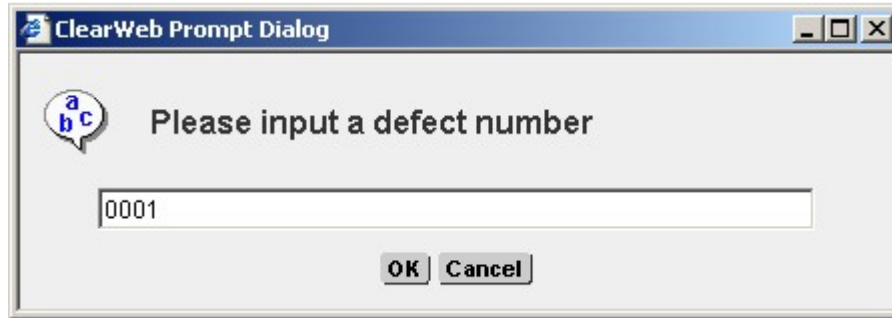


Fig. 4



### ClearWeb – Single-Selection Dialogs

A sample **Single-Selection Dialog** for a ClearCase non-web user is shown in Fig. 5. The same dialog for a web user is shown in Fig. 6.

Fig. 5

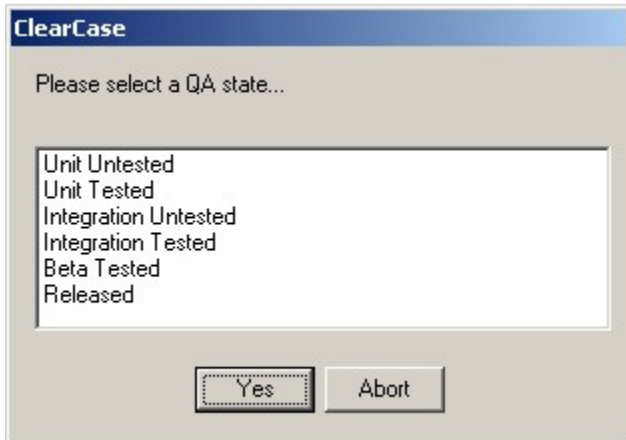


Fig. 6



### ClearWeb – Multi-Selection Dialogs

A sample **Multi-Selection Dialog** for a ClearCase non-web user is shown in Fig. 7. The same dialog for a web user is shown in Fig. 8.

Fig. 7

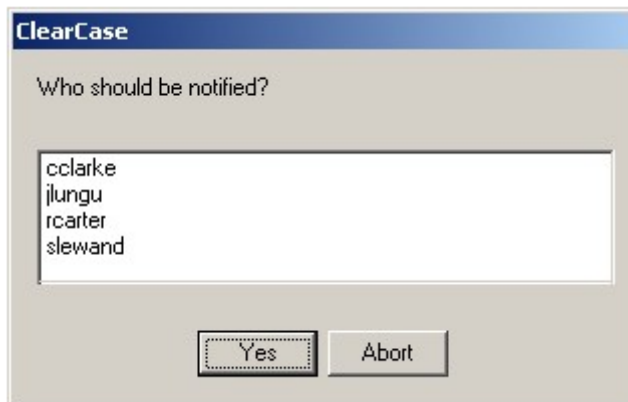
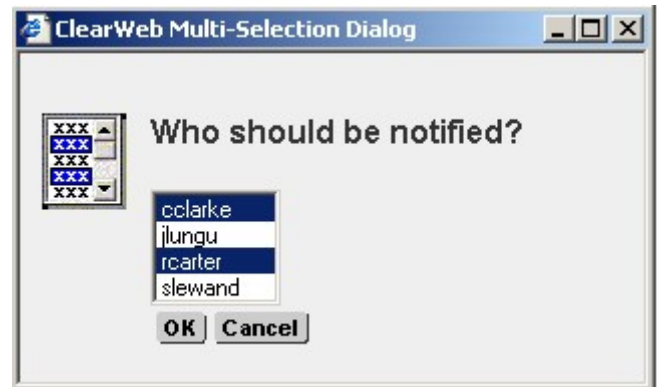


Fig. 8



## ClearWeb – Advise Dialogs

A sample **Advise Dialog** for a ClearCase non-web user is shown in Fig. 9. The same dialog for a web user is shown in Fig. 10.

Fig. 9

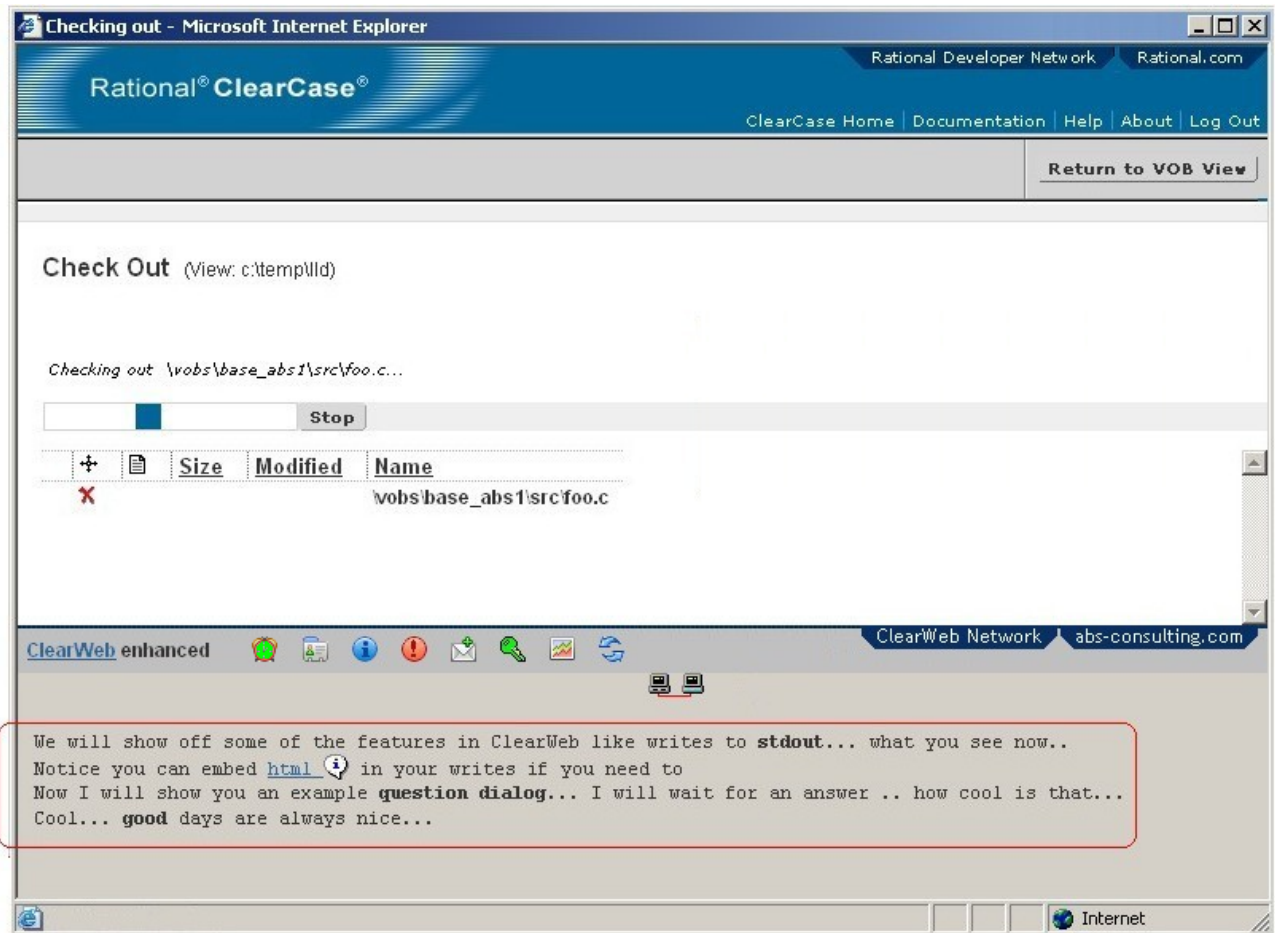




Fig. 10



## ClearWeb Client-Side Terminal Output

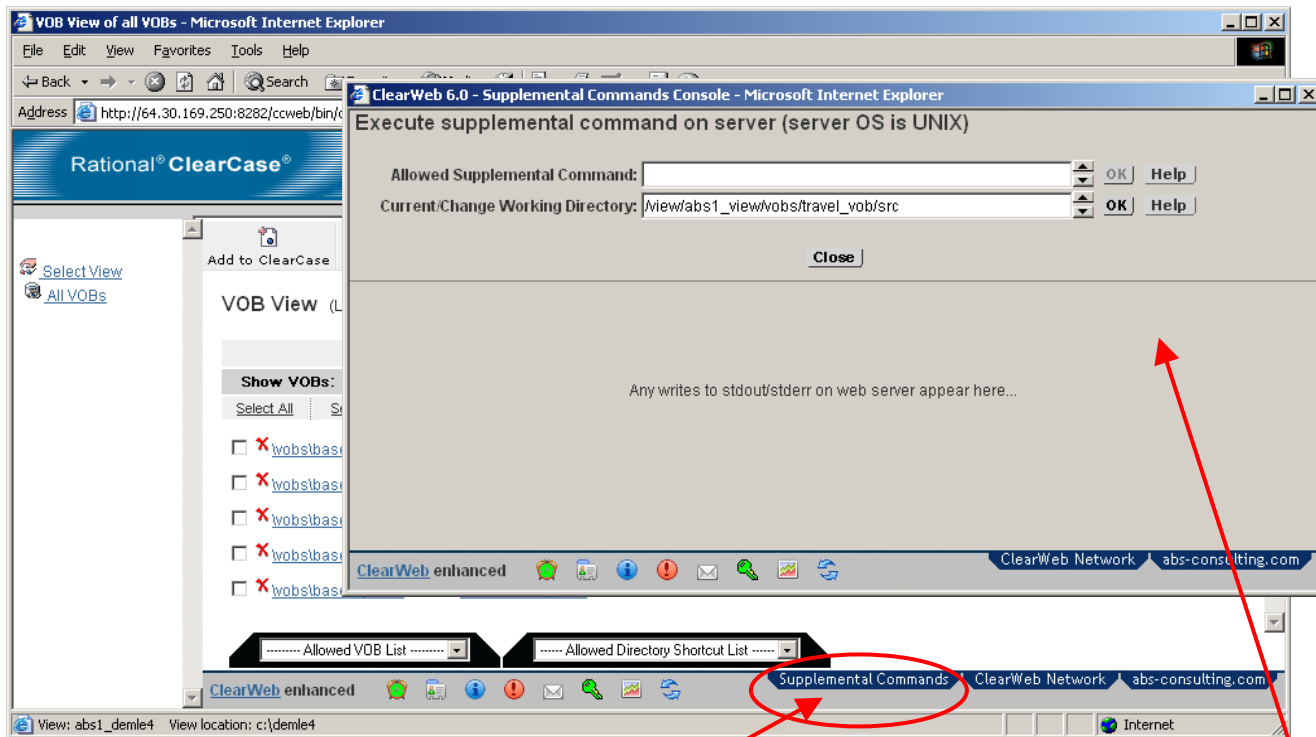
When using ClearWeb, stdout and stderr messages are sent uninterrupted to the terminal for standard (non-web) ClearCase users; for web-users this output is displayed in the user's web interface in a scrolling (if needed) frame as depicted below.



ClearCase is still responsible or informing you when the command completes, but stdout and stderr are redirected here as well and no longer cause the command to fail. The icon above the output will either be  indicating that ClearWeb is polling the server for input and dialogs to display or this icon  which indicates that you have elected to stop polling. You should stop the polling when for example you have to leave your desk for a bit, but wish to stay in this screen. (i.e. to find someone to explain or to show a screen to). To toggle polling just select the icon.

## Supplemental Commands

The Native ClearCase Web interface only supports a limited set of cleartool commands (checkout, checkin, uncheckout, update). ClearWeb extends this by allowing for over **120 more cleartool commands** (over 90% of the cleartool commands) and an **unlimited number of non-ClearCase commands**. You can type allowed commands in a single text field. The administrator can define which command(s) you can execute from the [supplemental command window](#).

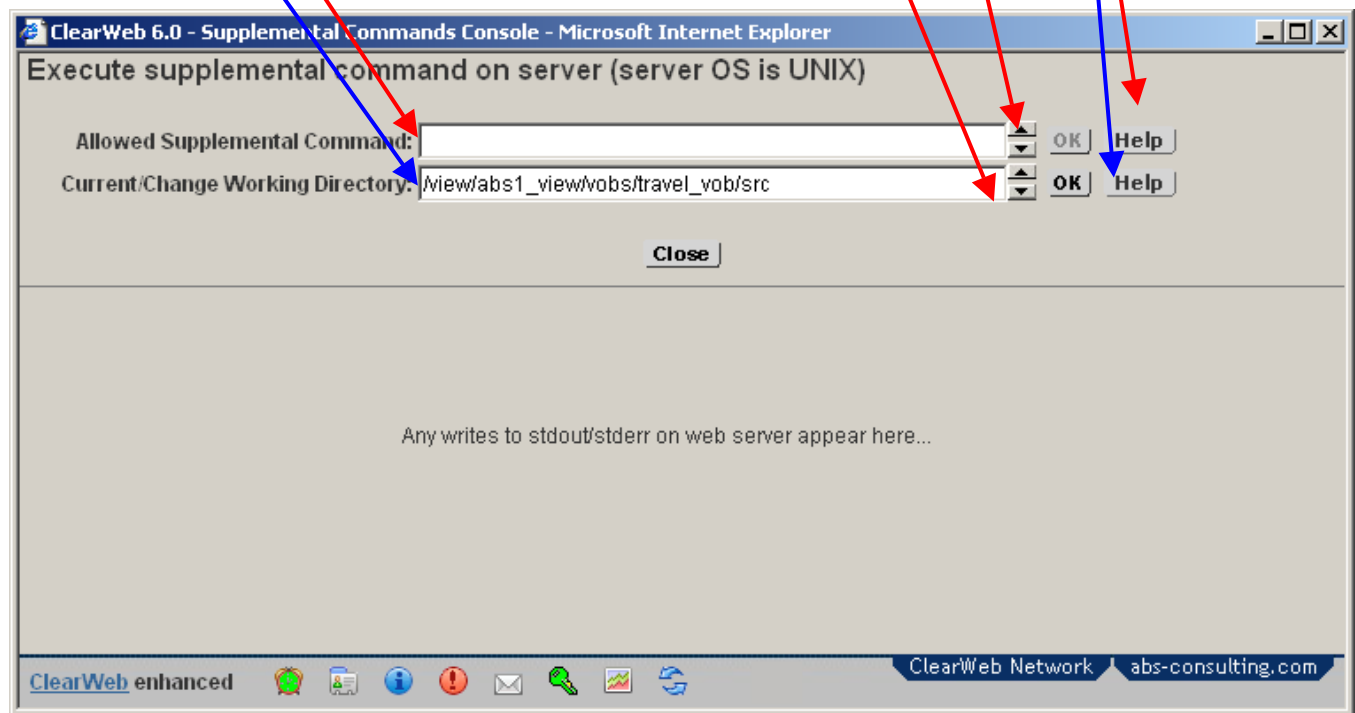


If your Administrator defines at least one **Supplemental Command** for your use then the **Supplemental Commands** tab appears on bottom toolbar of the VOB view window of the ClearCase Web interface. You can select this link to view the [Supplemental Commands Window](#).

## Supplemental Command Window

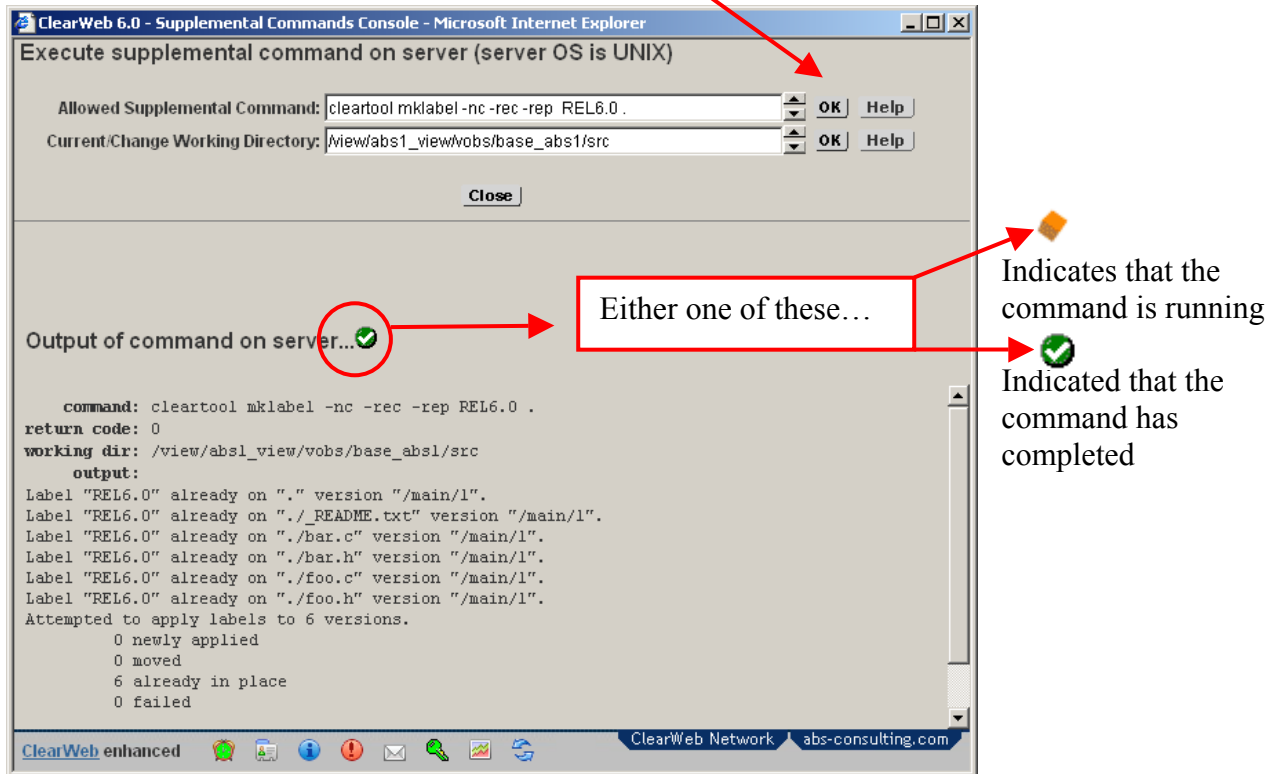
If allowed by the administrator the ClearCase Web User can execute supplemental commands. The components of the Supplemental Commands Dialog are listed below:

- [Allowed Supplemental Command Field](#)
- [Help for Allowed Supplemental Command Field](#)
- [Current/Change Working Directory Field](#)
- [Help for Current/Change Working directory Field](#)
- [Supplemental Command History Arrows](#)
- [Working Directory History Arrows](#)



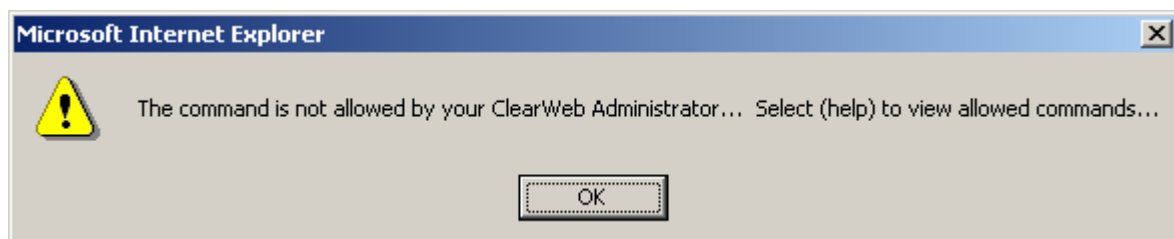
## Allowed Supplemental Command Field

The commands, programs or scripts that you are allowed to execute are those defined as available for you by your ClearWeb Administrator. You can enter a command (and any optional arguments if allowed) before selecting the associated **OK** button.



The **command** that was input, its **return code**, the current **working directory** and the **output** (stdout and stderr) are displayed for each command executed. Any interactive dialogs invoked via called scripts or triggers are also displayed if needed.

If the command attempted is not one that is allowed by the administrator then a dialog similar to one below is displayed. To receive a list of the command that you may input select the associated [HELP](#) button.





## Help for Allowed Supplemental Commands

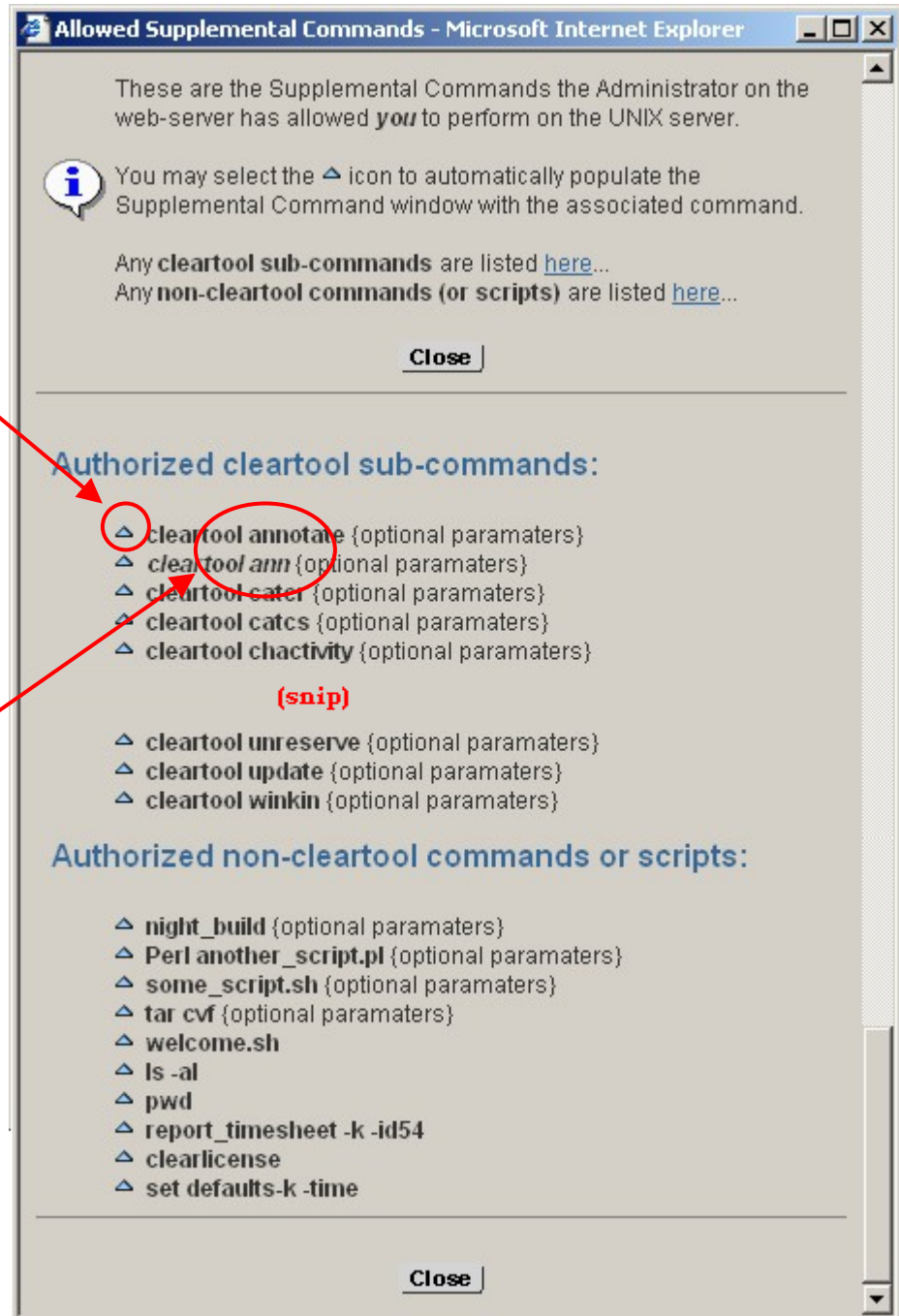
This dialog displays the Supplemental Commands that are allowed to execute by your ClearWeb Administrator.

The cleartool sub-commands that the web administrator has allowed you to perform (if any) are listed in the first section.

You can select the **populator icon** to automatically populate the Allowed Supplemental Command Field in the Supplemental Commands Window. Once there, you can select OK to execute the command.

If the administrator allows a command any associated command alias is also allowed and is italicized. (i.e. checkout=co, uncheckout=unco, annotate=ann).

The final section lists the additional (usually non-cleartool) commands that the administrator allows you to execute. First the commands or scripts that accept additional parameters are listed, and then the commands that the administrator wishes that you type exactly (either with no arguments or only with the arguments the administrator specifies) are listed.



## Current/Change Working Directory Field

When Supplemental Commands are invoked they are executed in a working directory that can be changed by you (if allowed by the ClearWeb Administrator). This ability improves your performance as you can type allowed supplement commands as if they are in the directory which makes for much shorter command strings. **You can only enter absolute directory paths.** Sanity checking for the OS of the Server is performed before the change Working directory command is sent to the server.

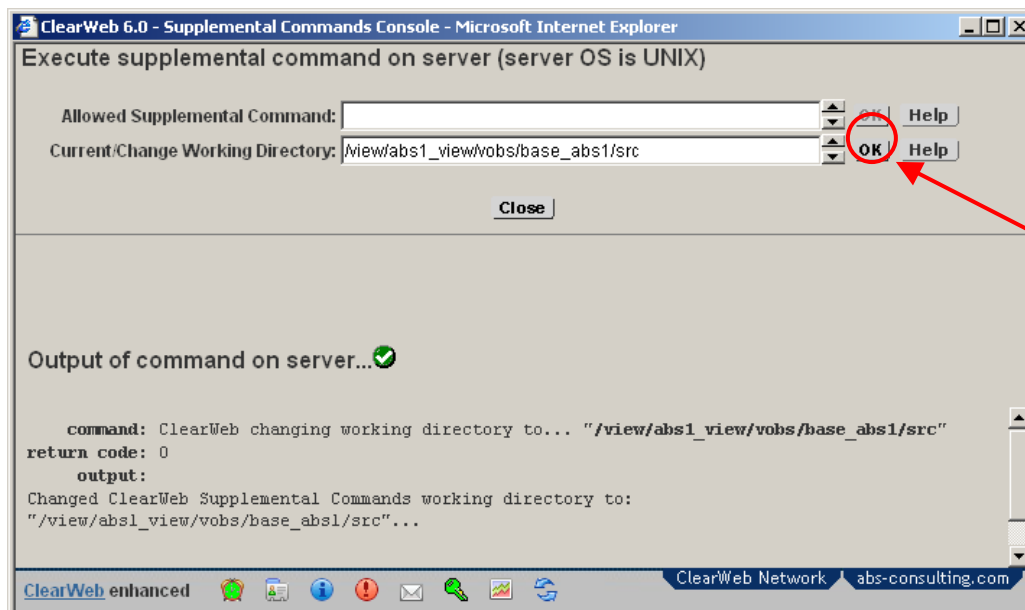
For example if you have several cleartool commands that you need to type you could set your working directory first and then type your commands.

So instead of typing a command series like:

```
cleartool co -nc /view/guest8_view/vobs/base_guest8/d5
cleartool mkelem -nc /view/guest8_view/vobs/base_guest8/d5/foo.c
cleartool ci -nc /view/guest8_view/vobs/base_guest8/d5
cleartool ci -nc -ident /view/guest8_view/vobs/base_guest8/d5/foo.c
cleartool mklbtype -nc REL4.0@/vobs/base_guest8/d5
cleartool mklabel -rec -nc REL4.0 /view/guest8_view/vobs/base_guest8/d5
cleartool lock lbtype:REL4.0@/vobs/base_guest8/d5
```

A user could set their working directory to “/view/guest8\_view/vobs/base\_guest8/d5” and then type:

```
cleartool co -nc .
cleartool mkelem -nc foo.c
cleartool ci -nc .
cleartool ci -nc -ident foo.c
cleartool mklbtype -nc REL4.0
cleartool mklabel -rec -nc REL4.0 .
cleartool lock lbtype:REL4.0
```



If the user is allowed to change their working directory they need only type that directory and then select the associated **OK** button.

The web administrator might choose to limit which working directories a web-user can change/set to. When this is the case the web-user might see an error message similar to the ones



below when they try to change/set to a new working directory.

```
Error: Administrator policy prevents you from changing the working
directory.
Contact the ClearWeb Administrator to gain permission...
```

or

```
Error: Administrator policy prevents you from changing to the
"c:\blat" directory...
```

Additionally, if the requested directory does not exist, is not a directory or you do not have access to the directory then an error message similar to one below might be displayed.

```
Error: The directory "c:\blat\dd"
does not exist on the Windows Web-server...
```

or

```
Error: "c:\blat\t"
is either not a directory or you do not have access to it on the Windows
Web-server...
```

If you need to review which directories you can set/change to then you may select the associated [HELP](#) button.

## Help for Change/Set Working Directory

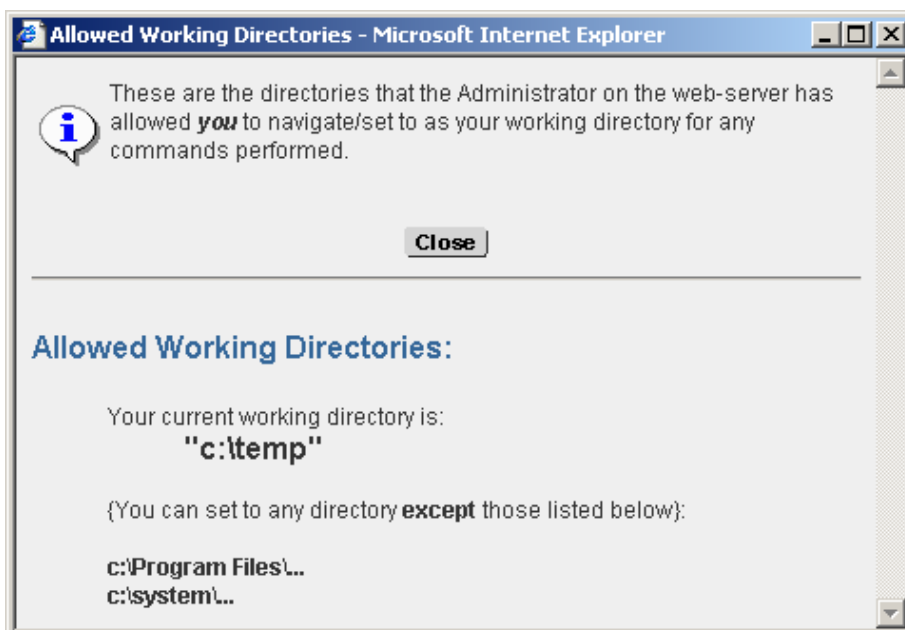
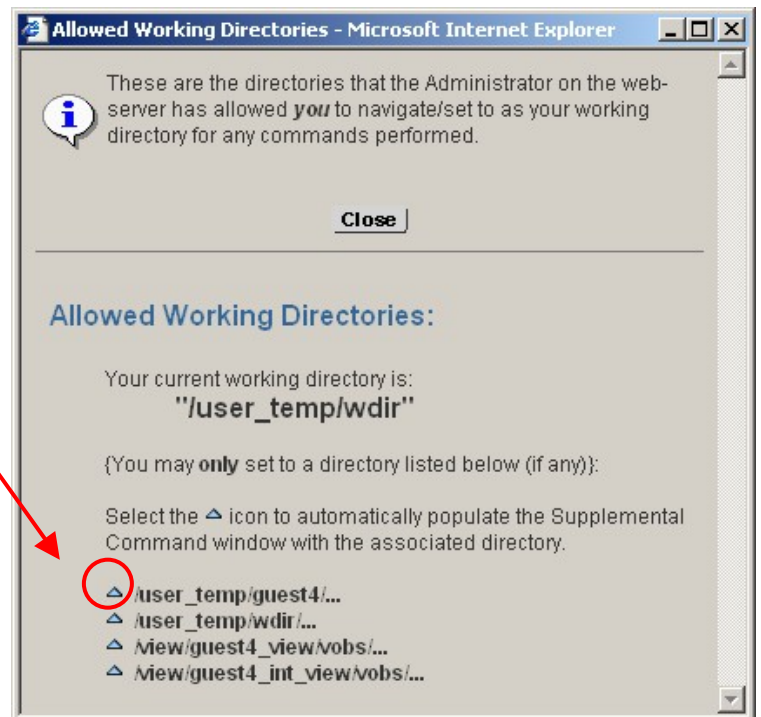
When Help in Allowed Working Directories is selected then any one of 4 types of dialog might be displayed. Which one is displayed depends on what your ClearWeb Administrator has defined for you.

If you may set to “only” a few working directories then a dialog similar to the one below is displayed.

This informs you that you are limited to setting working directories that are equal to or under the  
/user\_temp/guest/, /user\_temp/wdir,  
/view/guest4\_view/vobs and the  
/view/guest4\_int\_view/vobs  
directories.

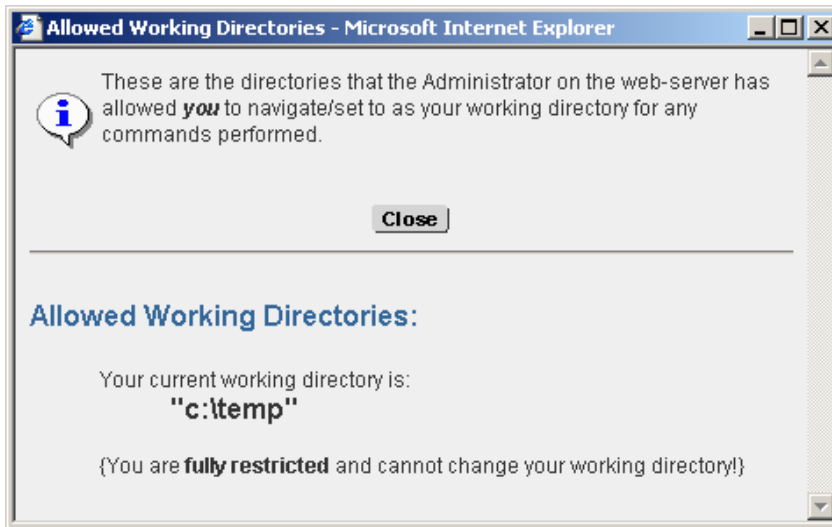
You can select the **populator icon** to automatically populate the Change Working Directory Field in the Supplemental Commands Window. Once there you can select OK to change their current working directory to that directory.

If you may set to all directories “except” a few then a dialog similar to the one below is displayed.



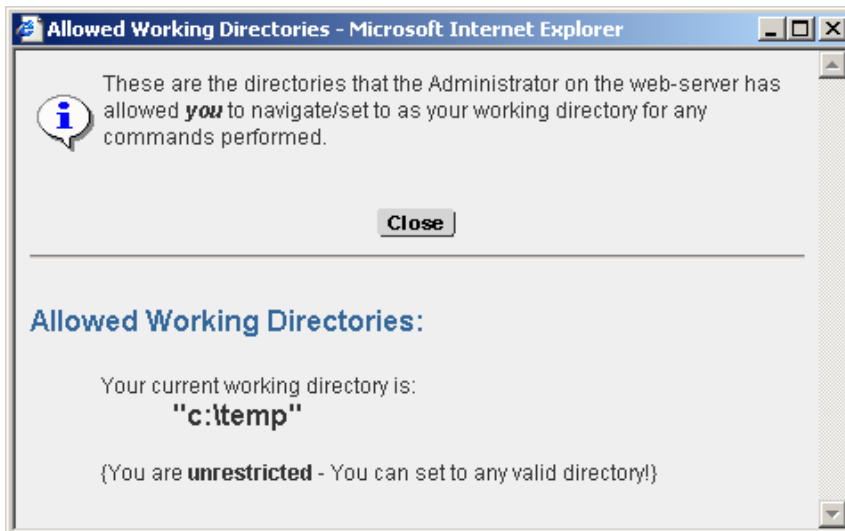
This informs you that you may change/set to any working directory **except** those directories that are equal to or under the **c:\Program Files** or **c:\system**.

If the web administrator does not allow you to change your working directory to any directory then a dialog similar to the one below is displayed.



You are informed that you couldn't change your working directory.

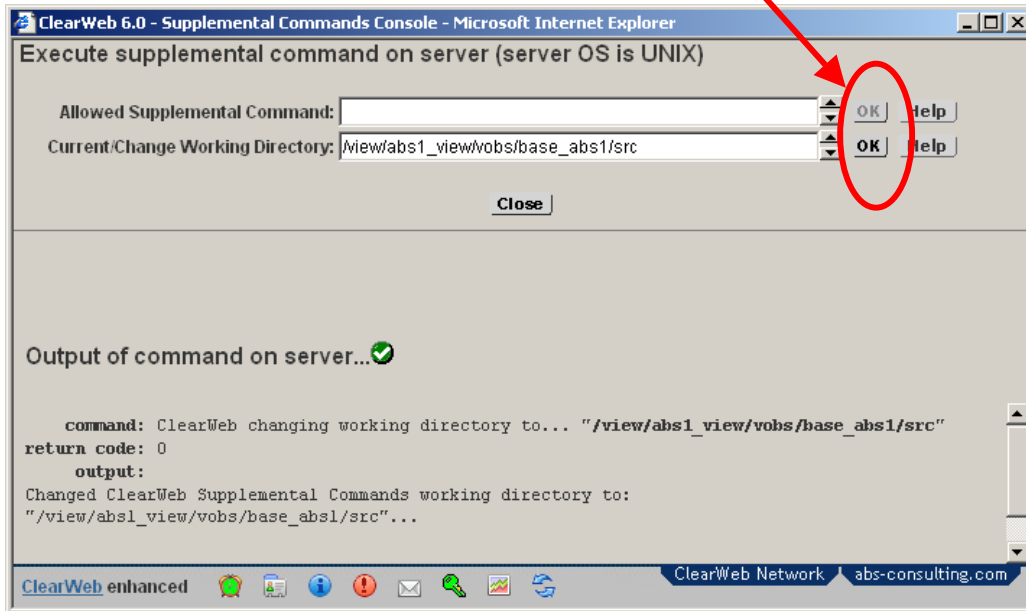
Finally, if the web administrator does not restrict you at all then a dialog similar to the one below is displayed.



You are informed that you can change to any valid working directories that currently exist on the web-server.

## History Arrows

ClearWeb stores the last 20 unique Supplemental Commands or Working Directories you have “typed” in these respective fields in history buffer and allows you to quickly change between them by selecting the associated up and down arrows for the buffer.

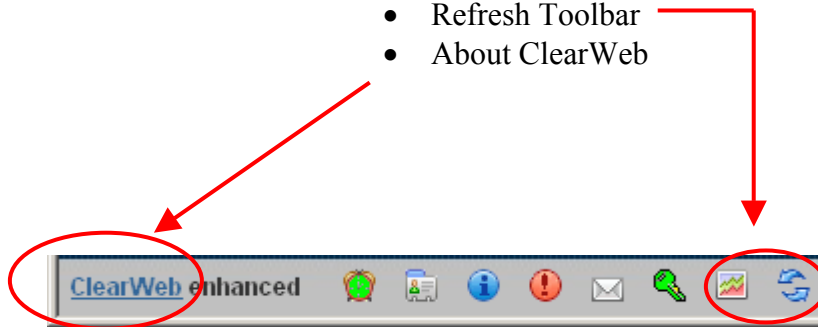


The buffers values are stored only for the current “Supplemental Commands” session and are reset if the Supplemental Command or Working Directory field is populated via the **populator icons** in the help menus.

## Misc. GUI Components

GUI components of the ClearWeb Toolbar that did not previously fit in any particular section are described here:

- Refresh Toolbar
- About ClearWeb



The Refresh Toolbar Icon refreshes the toolbar it is contained in, usually to update the mail icon if one needs a faster than 30 second update.

The About ClearWeb link provides a dialog that displays the current version of ClearWeb being used, a link to view feature summaries of the most current version available, a version check link (you current version against the most recent version released by ABS) and a link to User Configurable Dialogs Defaults.



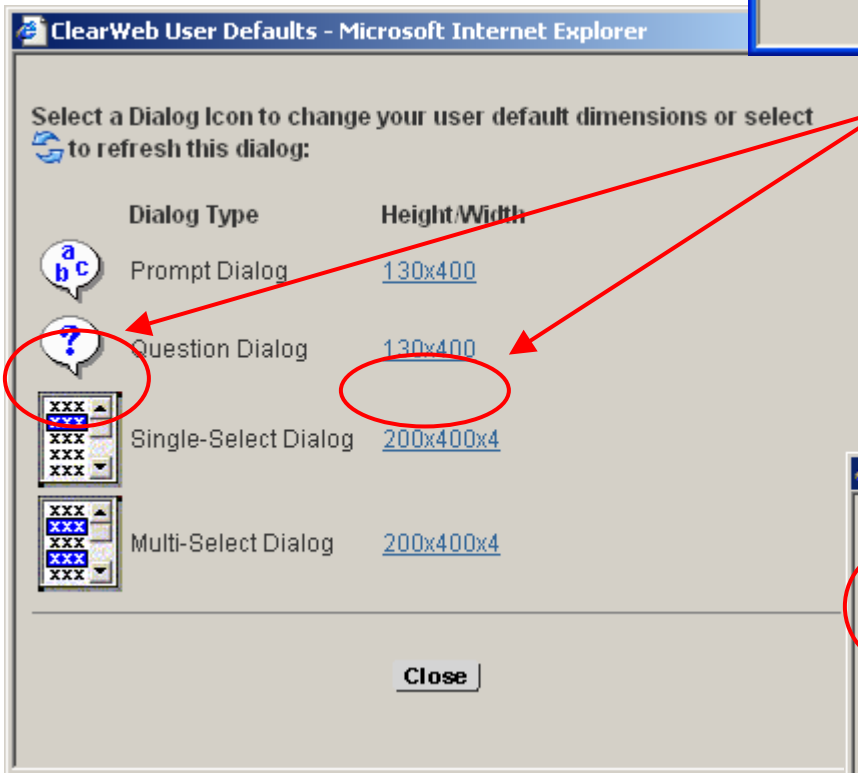
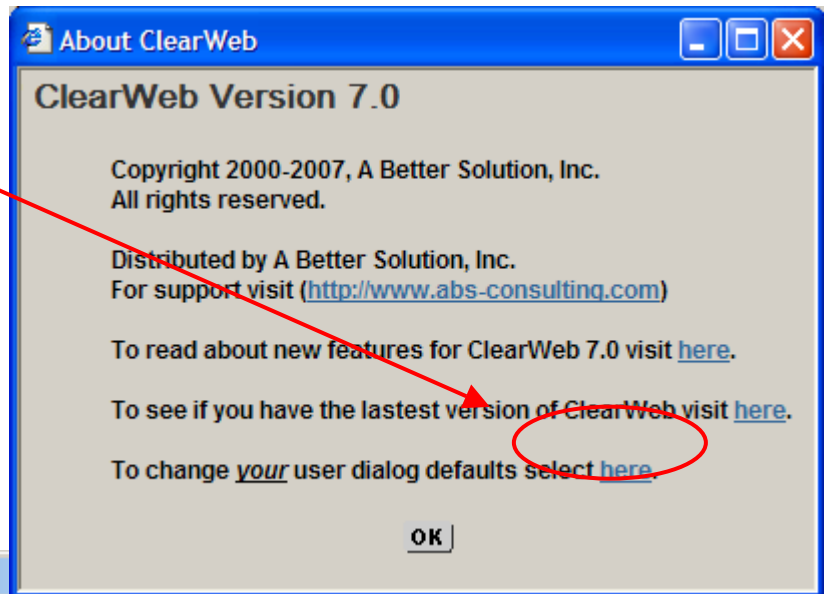


## User Configurable Dialog Defaults

Users can set the default size of certain dialog types to their own preference by selecting this link in the ClearWeb About dialog.

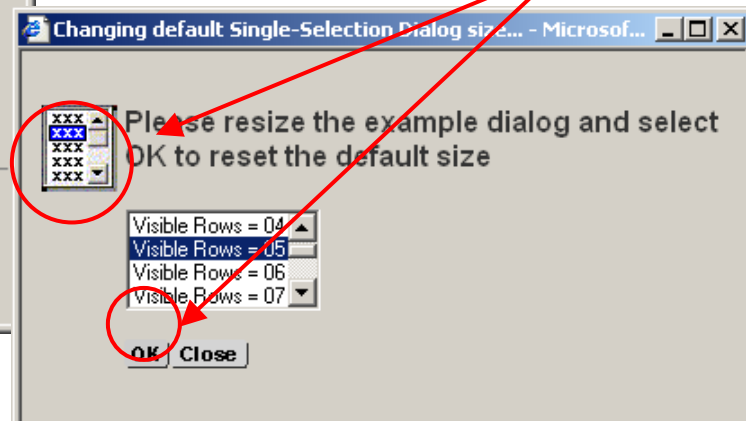
This will cause the current default sizes for each dialog type that the user can modify (Prompt Dialog, Question Dialog, Single-Select Dialog and Multi-Select Dialog) as depicted below:

**Users cannot modify the default size of the Message Dialog type; only the ClearWeb administrator can set that default size.**

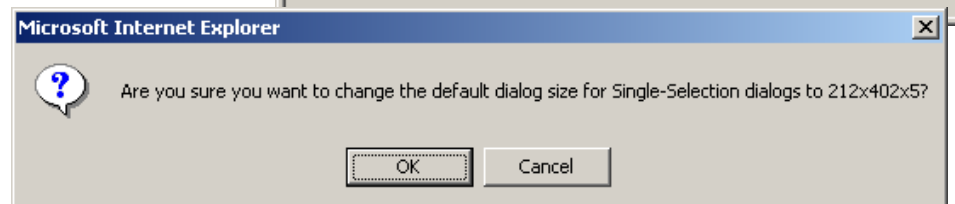


Users can select the appropriate icon or dimension to change the default size for the associated dialog type (and displayed rows for selection dialogs).

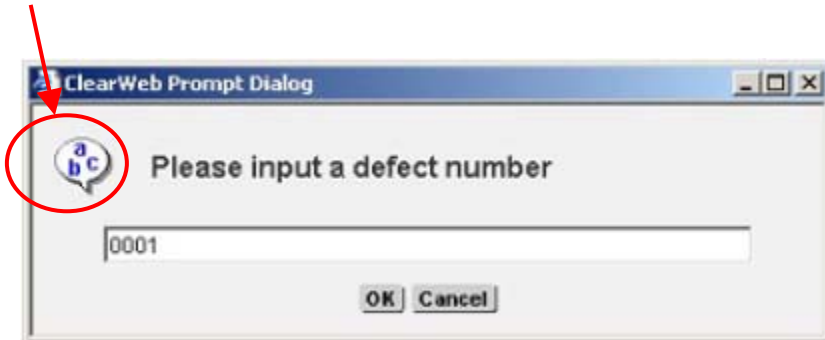
Once displayed, the user can resize the windows (by stretching/shrinking the window to the desired shape) and again select the displayed icon or the "OK" button to change the current shape to the default shape.



If the shape is valid then the user receives a final confirmation that displays the new dimension. The user can accept the new shape or cancel.



Users can also change the default size on the fly by stretching/shrinking any instance of a dialog type (Prompt Dialog, Question Dialog, Single-Select Dialog and Multi-Select Dialog) and then selecting the icon to accept the current shape as the new default shape.



## ClearCase Remote Client (CRC) support

The ClearCase Remote Client will natively will handle “*some*” interactive triggers. In previous releases you could not get interactive triggers to work for both ClearCase Web Clients and ClearCase Remote Client simultaneously (as they interfered with each other). ClearCase itself does not distinguish between the two. ClearWeb 7.0 fully supports both ClearCase Web Clients and ClearCase Remote Clients even both at the same time from a single server instance.

When ClearWeb was installed it made an additional copy (or link on UNIX installations) of **ccweb.exe** called **ccweb\_remote.exe** (or **ccweb\_remote** for UNIX). Have your ClearCase Web users use the **ccweb** address (i.e. **http://server/ccweb/bin/ccweb**) and your ClearCase Remote Client users use the **ccweb\_remote** address (i.e. **http://server/ccweb/bin/ccweb\_remote**). Doing so will enable **clearweb\_dialog**, **clearweb\_out** and **clearweb\_write** to know which is being use so now dialogs will work for both interfaces.