



*Version 7.0 Administration Guide*

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## **Audience**

The **ClearWeb Administration Guide** is intended as a guide for those responsible for day-to-day administration of a ClearWeb Installation and its ClearCase/ClearWeb Web Users. Oft times these individuals are different than those responsible for the actual installation of ClearWeb. It is expected that this document is not made highly available and that copies might reside primarily with CM personnel or ClearCase savvy/responsible Web-server personnel.

For day-to-day Client User information, refer to the **ClearWeb User Guide**. For installation information, refer to the **ClearWeb Installation 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 integrates 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**

## Installing ClearWeb

ClearWeb only needs to be installed in the ClearCase Web server. No client-side changes are required.

To Install ClearWeb refer to the **ClearWeb Installation Guide**.

## License Registration

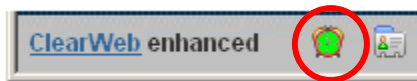
A Better Solution, Inc. distributes user licenses for ClearWeb on a per web-server basis. For example, when multiple ClearCase web users (any number of them) access ClearCase from a UNIX server, ClearWeb installation requires only one ClearWeb license. A license request form will be sent to you upon purchasing ClearWeb from A Better Solution, Inc. Return the completed form to A Better Solution, Inc. via e-mail or fax. A license *is not* required to install the software. Therefore, sites may install and configure ClearWeb in the interim. (ABS encourages perspective clients to try it first). ClearWeb is distributed as fully functional software with an **evaluation license key**.


If necessary, sites may also operate using an evaluation license. Upon obtaining the license key, whether generated or for evaluation, you will need to place it in the environment that runs ccweb on the ClearCase web server. Use of an evaluation license will cause random ***Splash Messages*** from the vendor similar to the one below. *Splash Messages* will not change the functionality of ClearWeb.







## ClearWeb Time Restricted Access (Changed in 7.0)

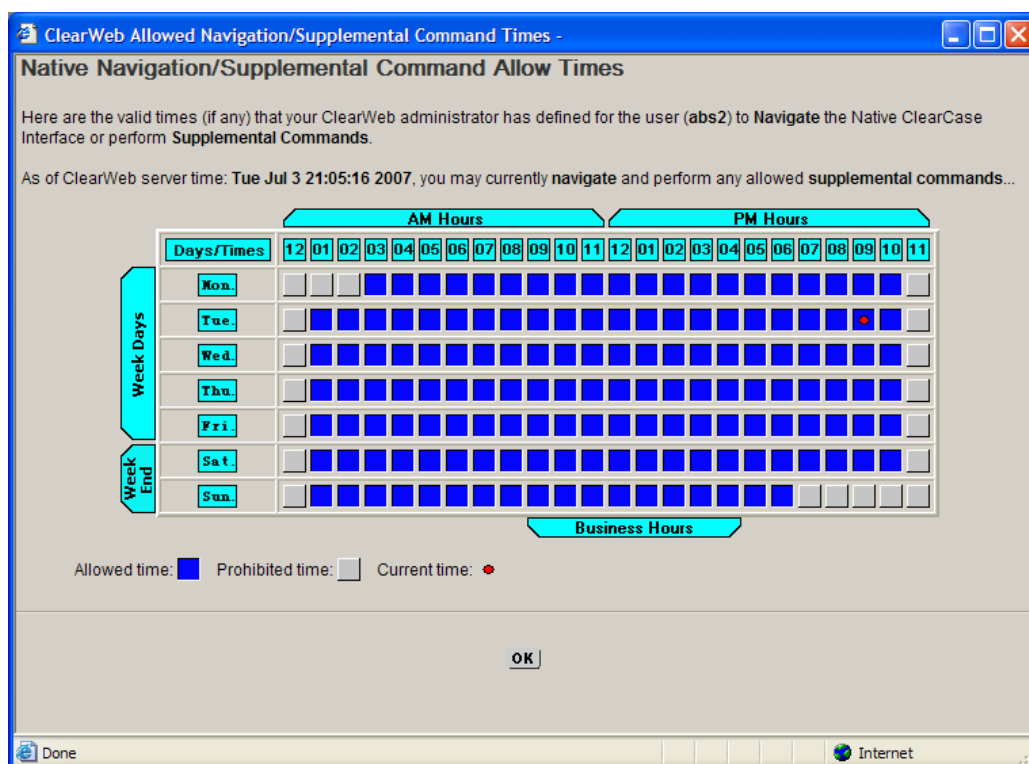
ClearWeb allows for administrators to limit when users can navigate the Native ClearCase Interface or use any allowed Supplemental Commands.





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

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

The ClearWeb Administrator can use the [ClearWeb Administration Console](#) to define the times that a user navigates the native interface or execute Supplemental Commands. The user can view their



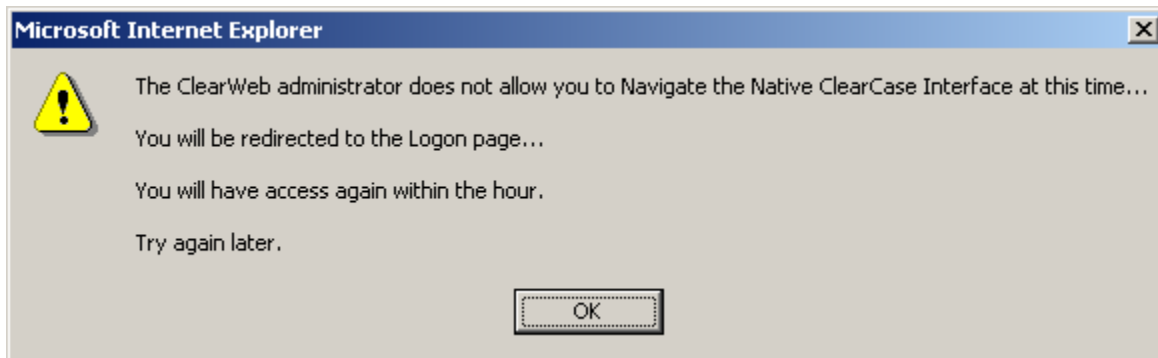
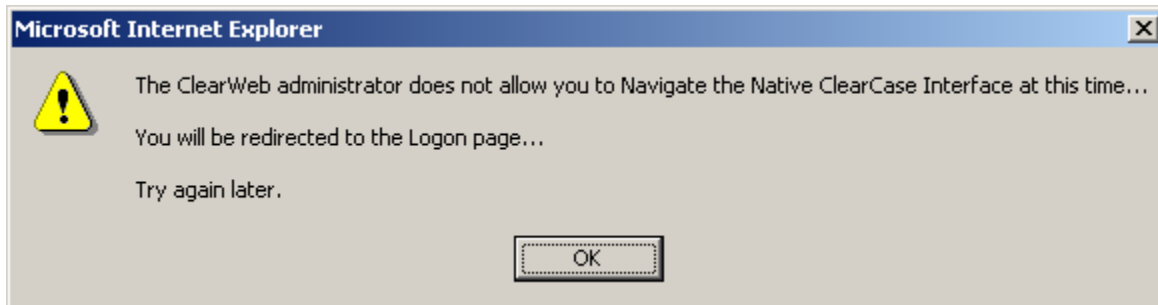
allowed/disallowed times by selecting the Allowed Times icon on ClearWeb Toolbars.

To set user times, the ClearWeb Administrator can open the ClearWeb Administration Console  from the ClearWeb Toolbar and then select the  icon from the toolbar in the ClearWeb Administration Console.

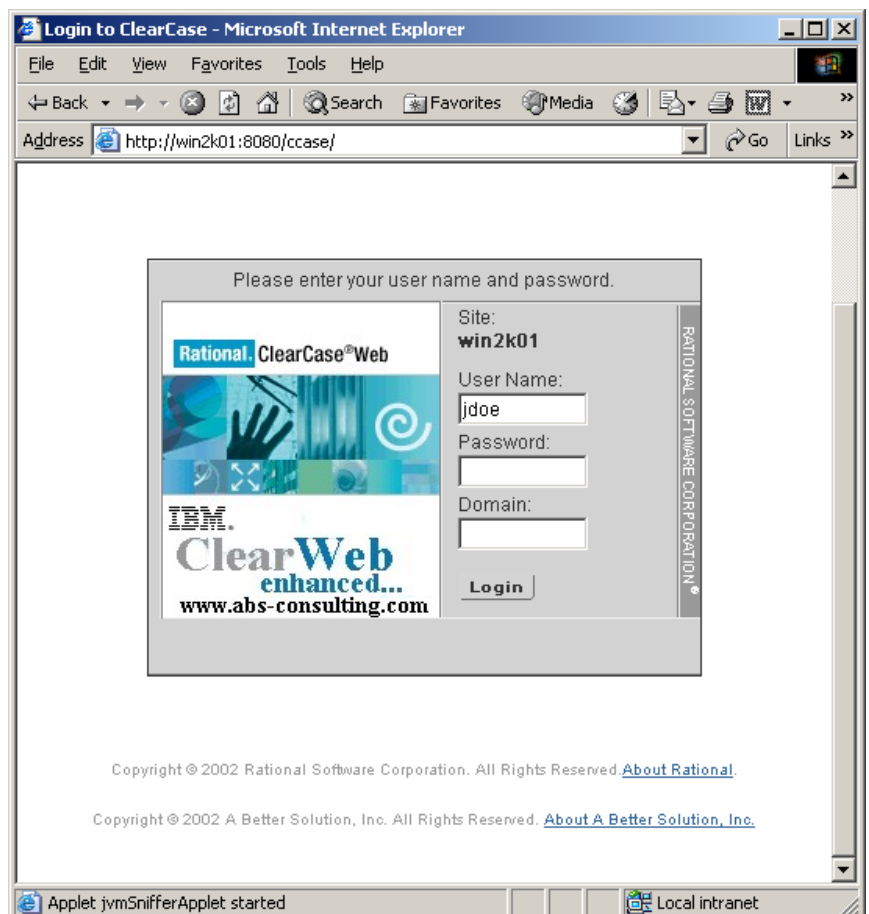
If a user attempts to navigate to the browse



page on the native ClearCase Web Interface during a prohibited time they are shown a dialog similar to either of the ones below:



After acknowledging the dialog the user is then forcibly logged out and redirected to the logon page.



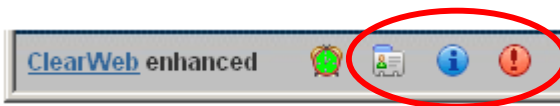
## Administrator Alerts

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 message 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.

The messages can have limited embedded html so they can invoke email highlight text. The administrator can define any of the following:

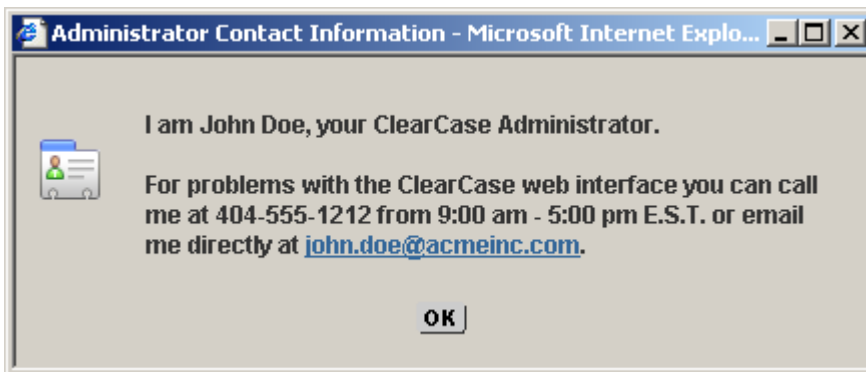
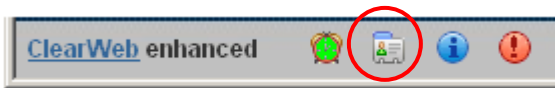
- [VCARD \(Virtual Business Card\)](#)
- [MOTD \(Message-of-the-Day\)](#)
- [WOTD \(Warning-of-the-Day\)](#)



Once defined with the [ClearWeb Administration Console](#) they reside in the [clearweb\\_config.txt](#) file and become visible in the tool-bar at the bottom of the ClearCase Web interface like below:



## VCARDS (Administrator Virtual Cards)

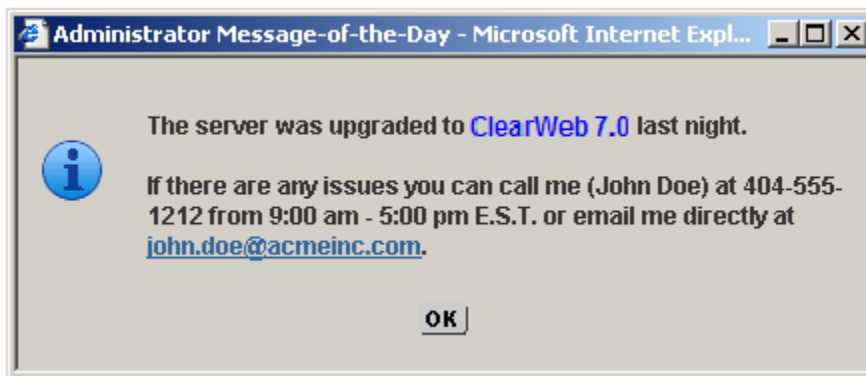
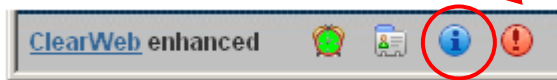
The ClearWeb Administrator can use the [ClearWeb Administration Console](#) to define a virtual Business Card (vcard). The VCARD serves as a way for the administrator to “post” their contact information where the web users can see it since many times the administrator is separated from their web users 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, the web-users can select the VCARD icon on the toolbar at any time to view it. The **VCARD icon** only appears if defined by the ClearWeb Administrator.





To create this VCARD, the ClearWeb Administrator can open the ClearWeb Administration Console  from the ClearWeb Toolbar and then select the  icon from the toolbar in the ClearWeb Administration Console.

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

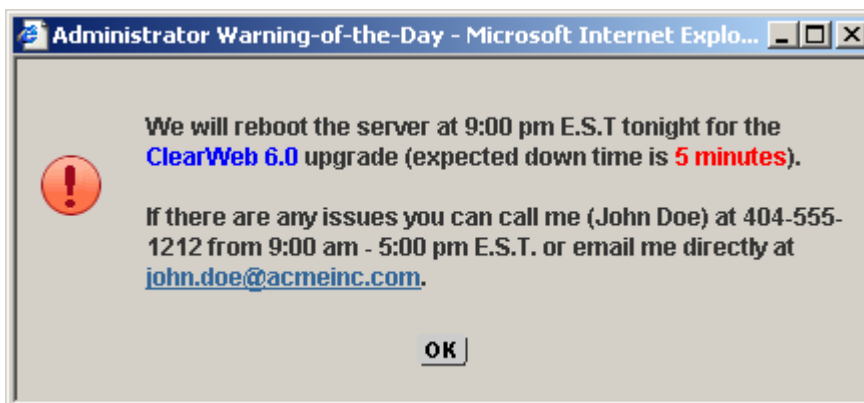
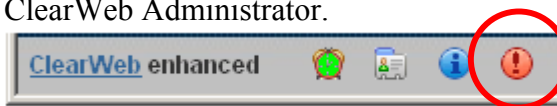
The ClearWeb Administrator can use the [ClearWeb Administration Console](#) to define a Message-of-the-Day (MOTD). The MOTD serves as a way for the administrator to “post” important information where the web users can see it since many times the administrator is separated from their web users by many time zones and on many occasions they are unfamiliar with one another. If the administrator defines a MOTD, the web-user can select the MOTD icon on the toolbar at any time to view it. The administrator should remove the MOTD when not being used so that users are not desensitized to the icon and miss important messages. The **MOTD icon** only appears if defined by the ClearWeb Administrator.





To create this MOTD, the ClearWeb Administrator can open the ClearWeb Administration Console  from the ClearWeb Toolbar and then select the  icon from the toolbar in the ClearWeb Administration Console.

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

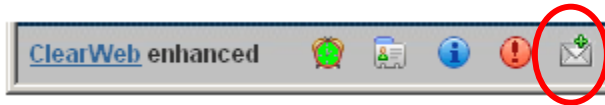
The ClearWeb Administrator can use the [ClearWeb Administration Console](#) to define a Warning-of-the-Day (WOTD). The WOTD serves as another way for the admin to “post” important information where the web users can see it since many times the administrator is separated from their web users by many time zones and on many occasions they are unfamiliar with one another. If the administrator defines a WOTD, the web-users can select the WOTD icon on the toolbar at any time to view it. The administrator should remove or comment out the WOTD when not being used so that users are not desensitized to the icon and miss important messages. The **WOTD icon** only appears if defined by the ClearWeb Administrator.





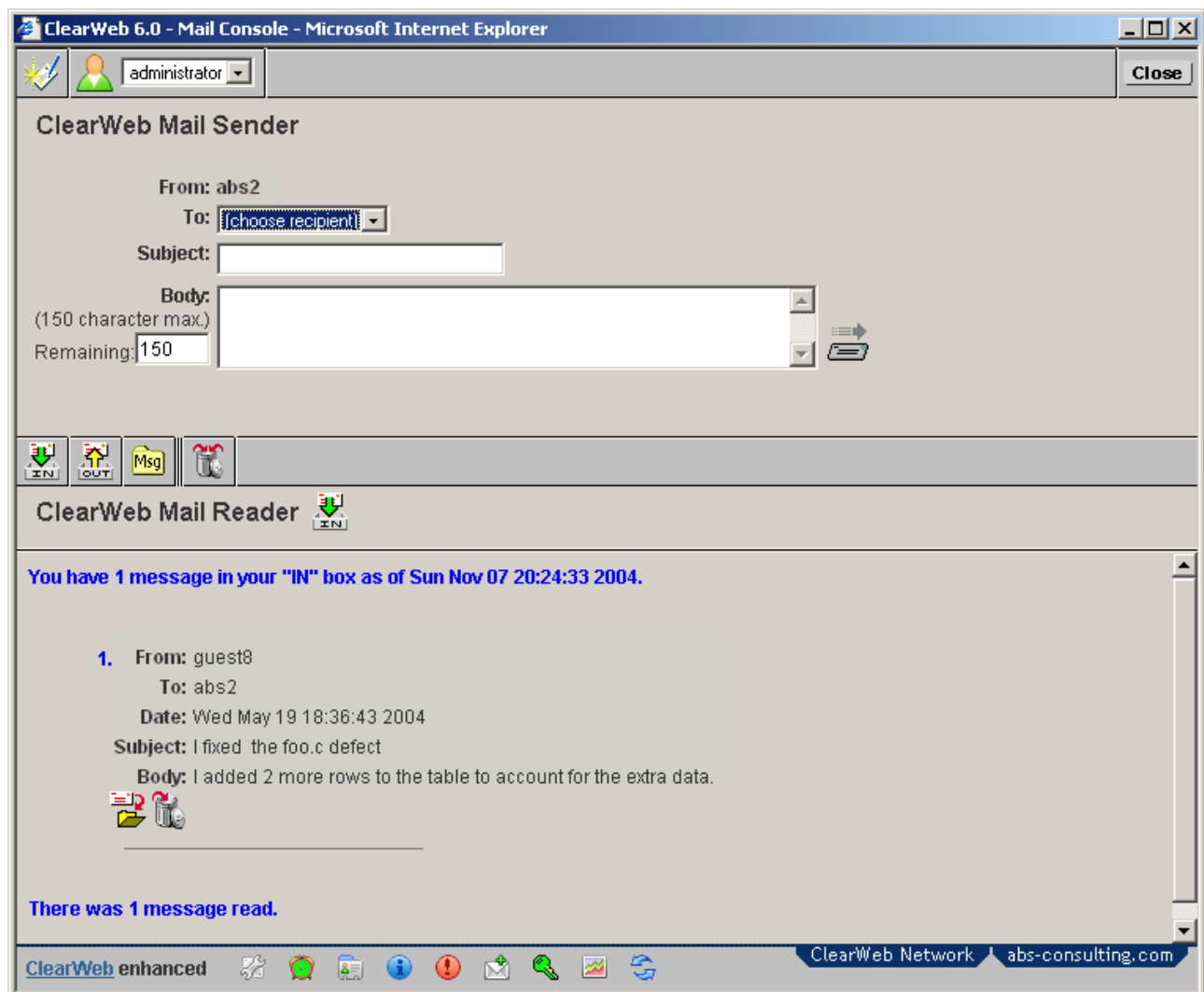
To create this MOTD, the ClearWeb Administrator can open the ClearWeb Administration Console  from the ClearWeb Toolbar and then select the  icon from the toolbar in the ClearWeb Administration Console.

## 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 received 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 the user has mail in their inbox or as a closed mailbox  if the user has no mail in their 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:

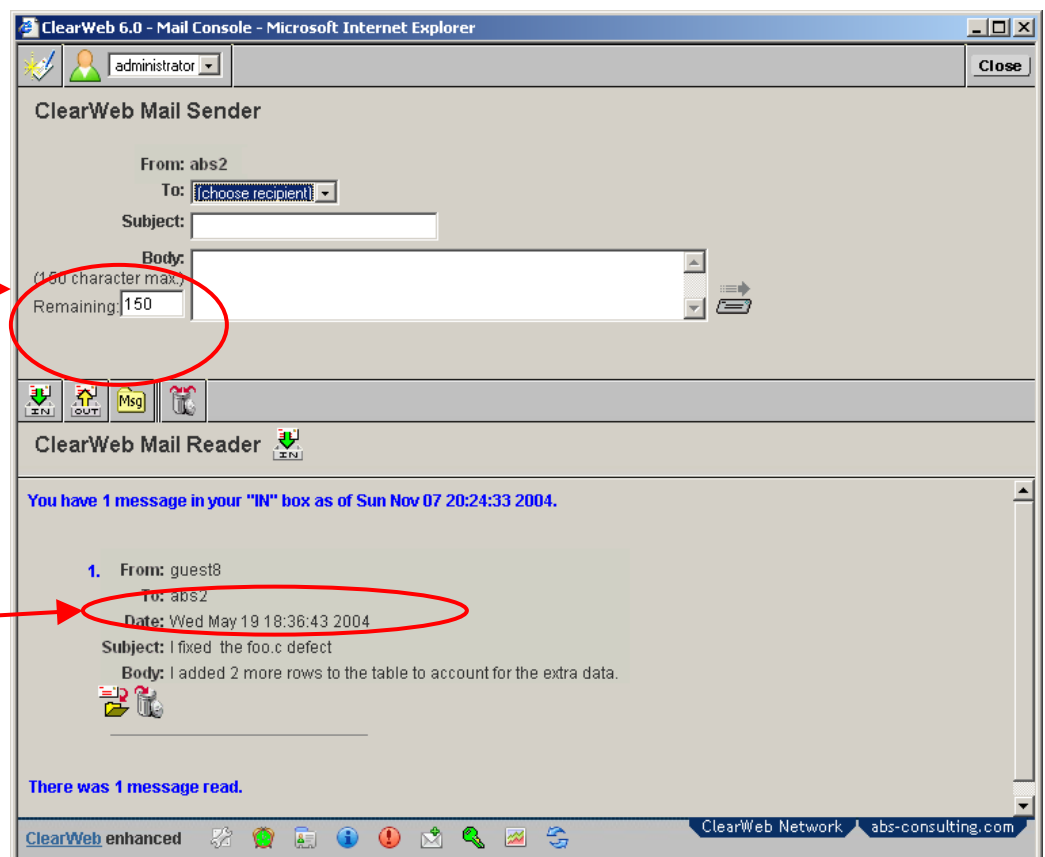


From the Mail Sender” Pane the user compose emails to other ClearWeb peers that those peers will receive when they use the ClearCase Web interface. The icons and their functions are listed below:

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	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:

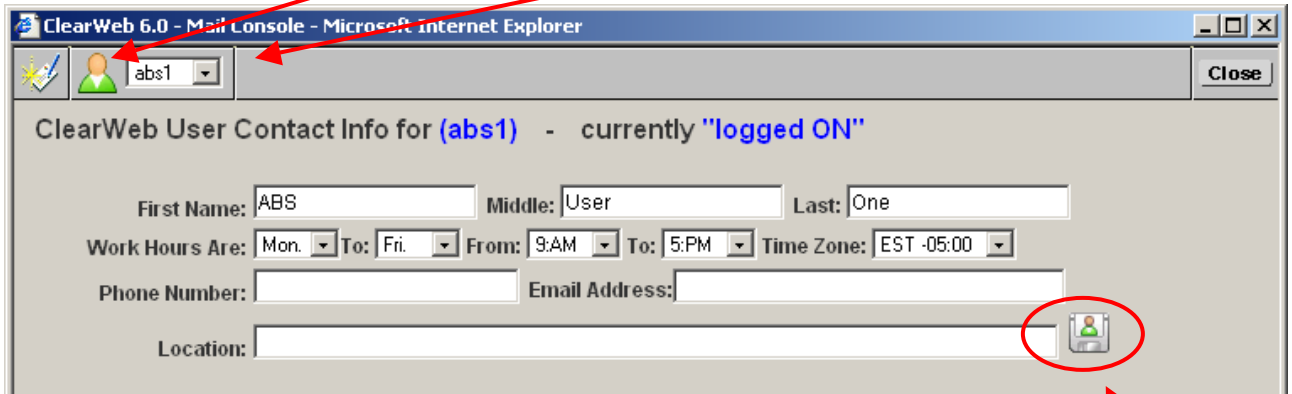
The time displayed is always the ClearCase web server time.



## View/Edit Contact Information

Users can update their contact information or view another users contact information. A user can only edit “their” contact information and they are the only one that can edit their contact information.

When a user selects the contact information **icon** or changes the contact information **selected list**, the “Contact Information” pane is displayed.



ClearWeb 6.0 - Mail Console - Microsoft Internet Explorer

ClearWeb User Contact Info for (abs1) - currently "logged ON"

First Name: ABS Middle: User Last: One

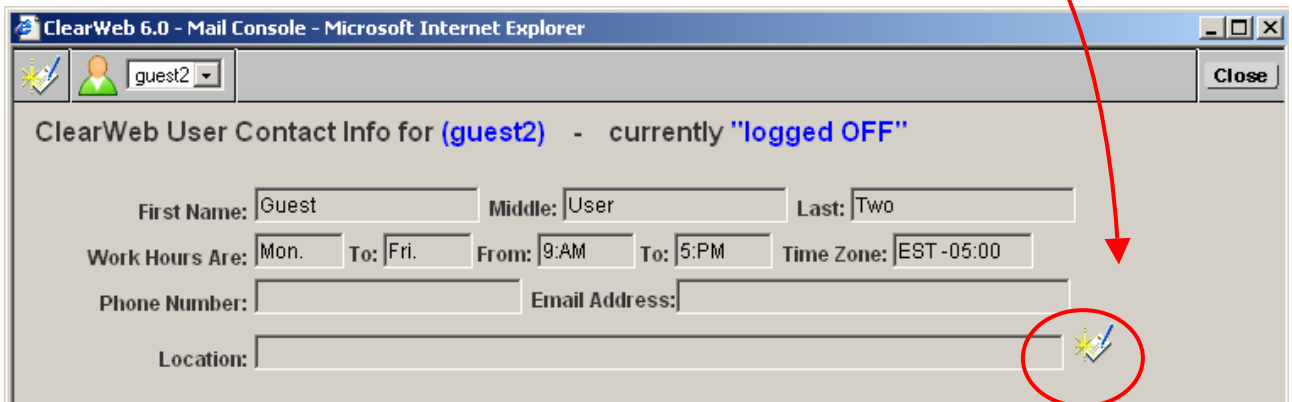
Work Hours Are: Mon. To: Fri. From: 9:AM To: 5:PM Time Zone: EST -05:00

Phone Number: Email Address:

Location:

If the current logged in user is the displayed user then the user can edit and save this information by selecting the **save information icon**.

If the current logged in user is **NOT** the displayed user then the user 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.



ClearWeb 6.0 - Mail Console - Microsoft Internet Explorer

ClearWeb User Contact Info for (guest2) - currently "logged OFF"

First Name: Guest Middle: User Last: Two

Work Hours Are: Mon. To: Fri. From: 9:AM To: 5:PM Time Zone: EST -05:00




Phone Number: Email Address:

Location:

## End-User Custom Links

The ClearWeb Administrator can place icons on the ClearWeb desktop that open other web pages or applications for your web developers. ClearWeb provides a pool of icon images that can be used, but you may create and use your own. The ClearWeb administrator can add up to 2 custom buttons to the ClearWeb Menu bars and can have those icons link to or open any web location or web-enabled application.



To create a Custom Application Link, the ClearWeb Administrator can open the [ClearWeb Administration Console](#)  from the ClearWeb Toolbar and then select either the  icon or the  icon from the toolbar in the ClearWeb Administration Console.

## ClearWeb Network

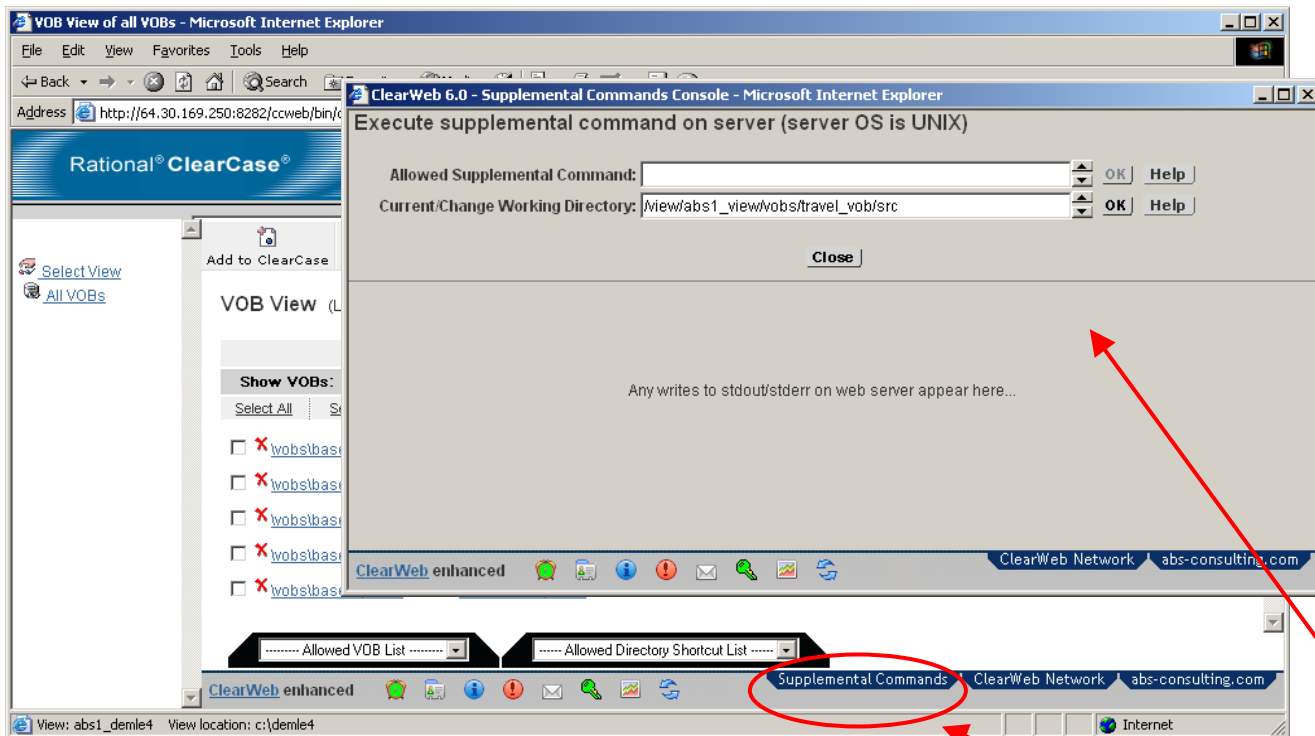
Users can connect to the ClearWeb Network at any time by selecting the **ClearWeb Network** tab within the ClearWeb interface. This links you to the ClearWeb network where users can join forums, exchange information, receive support on ClearWeb or other ABS products, sign up for product patch/upgrade 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.



## 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**. ClearWeb users typed allowed commands in a single text field. The administrator can define which command(s) a user or users can execute from the [supplemental command window](#). There are two types of command definitions that can be placed in the [clearweb\\_config.txt](#) file:

- [cleartool command key definitions](#)
- [non-cleartool command key definitions](#)



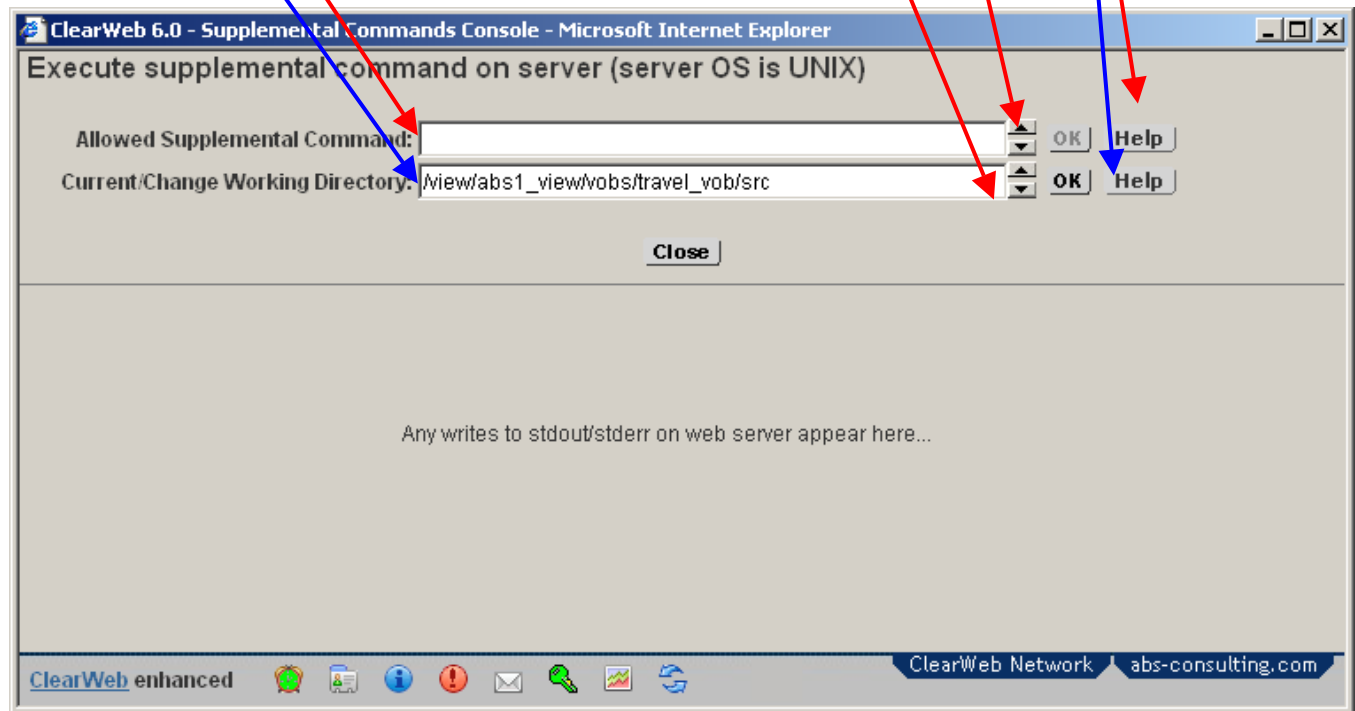
When at least one of the types is defined for a user then the **Supplemental Commands** tab appears on bottom toolbar of the VOB view window of the ClearCase Web interface. The user can select this link to view the [Supplemental Commands Window](#).



## Supplemental Command Window

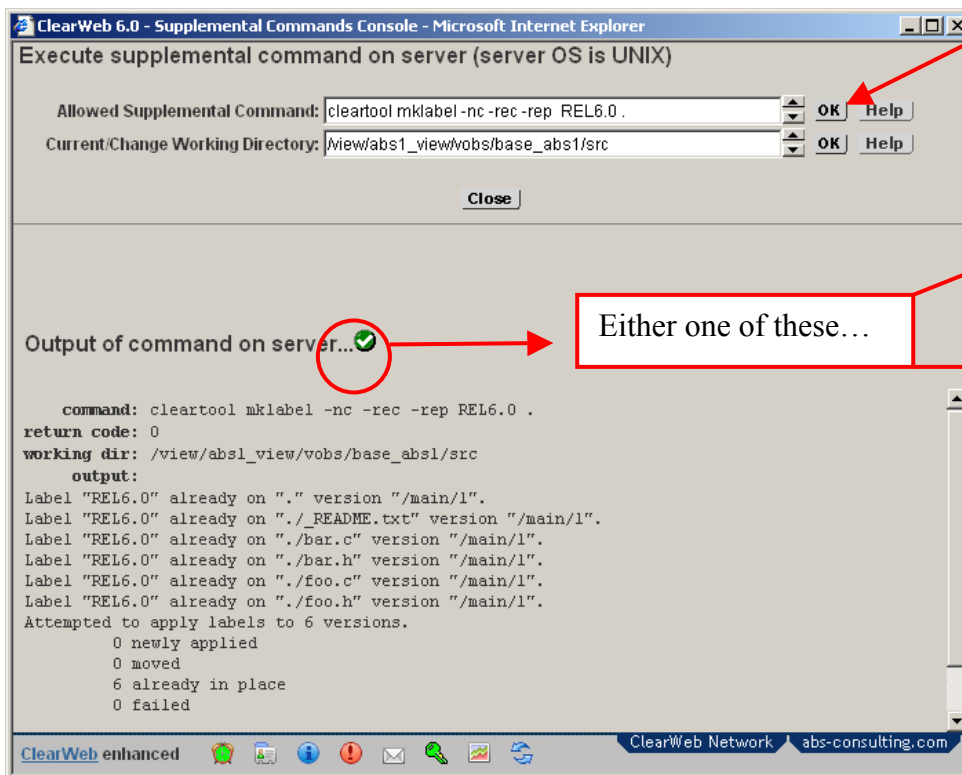
If allowed by the administrator the ClearCase Web User can execute supplemental commands. The components of the Supplemental Commands Dialog are listed below:

- [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 that are allowed to be executed are those cleartool sub-commands defined as available for the user by the administrator via [cleartool command key definitions](#) or non-cleartool commands or scripts defined for the user by the administrator via [non-cleartool command key definitions](#). Any command key definitions are defined by the administrator for users via the [ClearWeb Administration Console](#) and reside in the [clearweb\\_config.txt](#) file. The user can enter a command (and any optional arguments if allowed) before selecting the associated **OK** button.



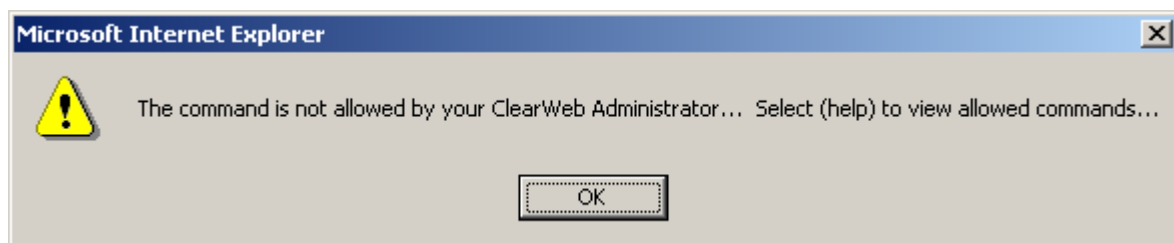
Indicates that the command is running



Indicated that the command has completed

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 the user may input the user may select the associated [HELP](#) button.



To create a Supplemental Command Definitions (for cleartool commands or non-cleartool commands, the ClearWeb Administrator can open the [ClearWeb Administration Console](#)  from the ClearWeb Toolbar and then select the  icon in the toolbar in the ClearWeb Administration Console.

## Help for Allowed Supplemental Commands

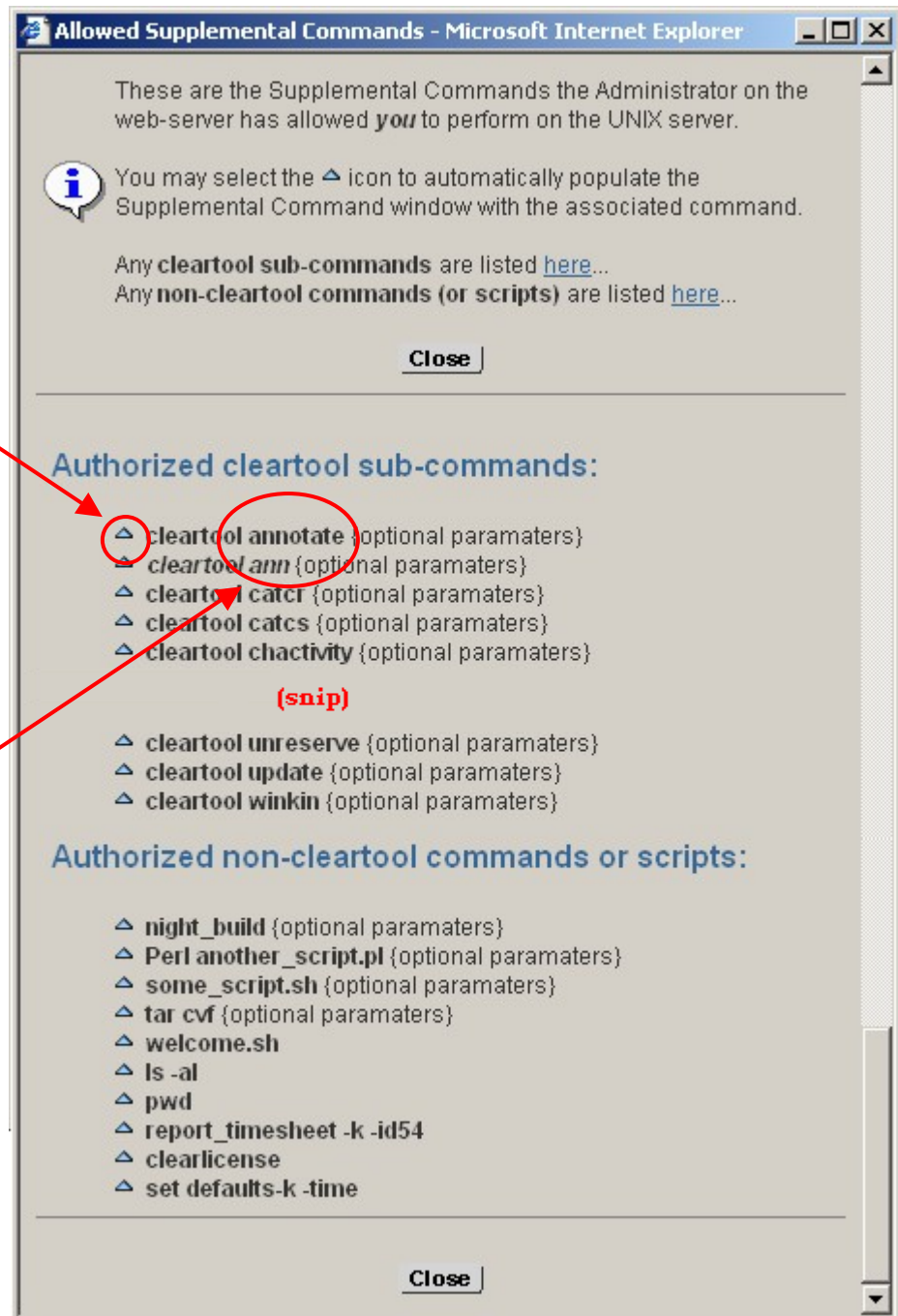
This dialog displays the Supplemental Commands that are allowed for the Web-user by the Web Administrator.

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

The user can select **populator icon** to automatically populate the Allowed Supplemental Command Field in the Supplemental Commands Window. Once there, they 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 for the user. First the commands or scripts that accept additional parameters are listed, and then the commands that the administrator wishes the user 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 the web-user (if allowed by the web administrator). Working Directory Definitions are defined by the ClearWeb Administrator on a per user basis and determine which Working Directory a user can (or cannot) set to. Any working directory definitions are defined by the administrator for users via the [ClearWeb Administration Console](#). This ability improves web-user performance as they can type allowed supplement commands as if they are in the directory which makes for much shorter command strings. **Users can only enter absolute directory paths.**

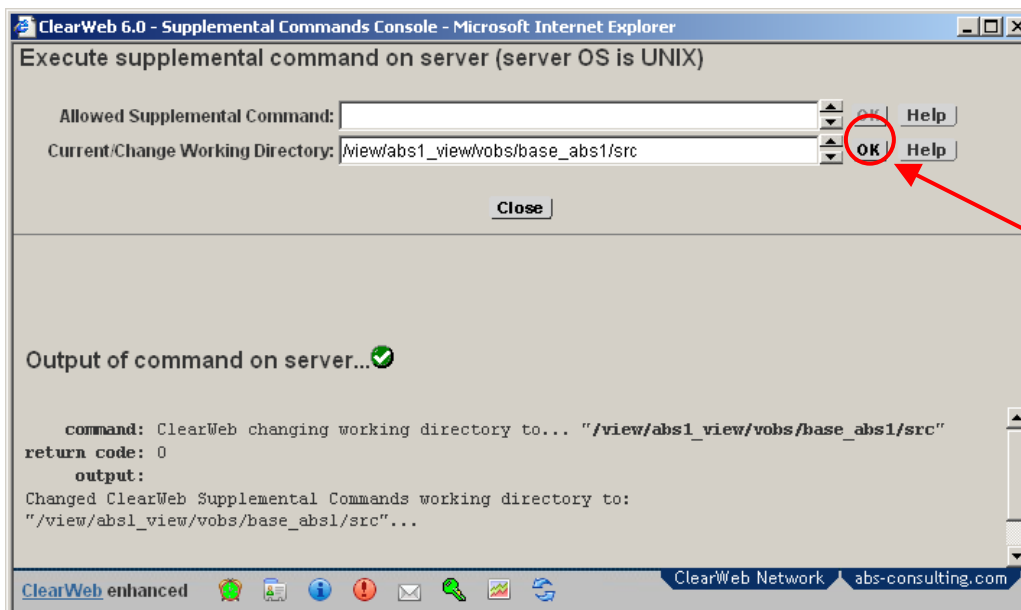
For example if a web-user has several cleartool commands that they need to type they could set their working directory first and then type their commands.

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 the user does not have access to the directory then an error message similar to one below might be displayed.

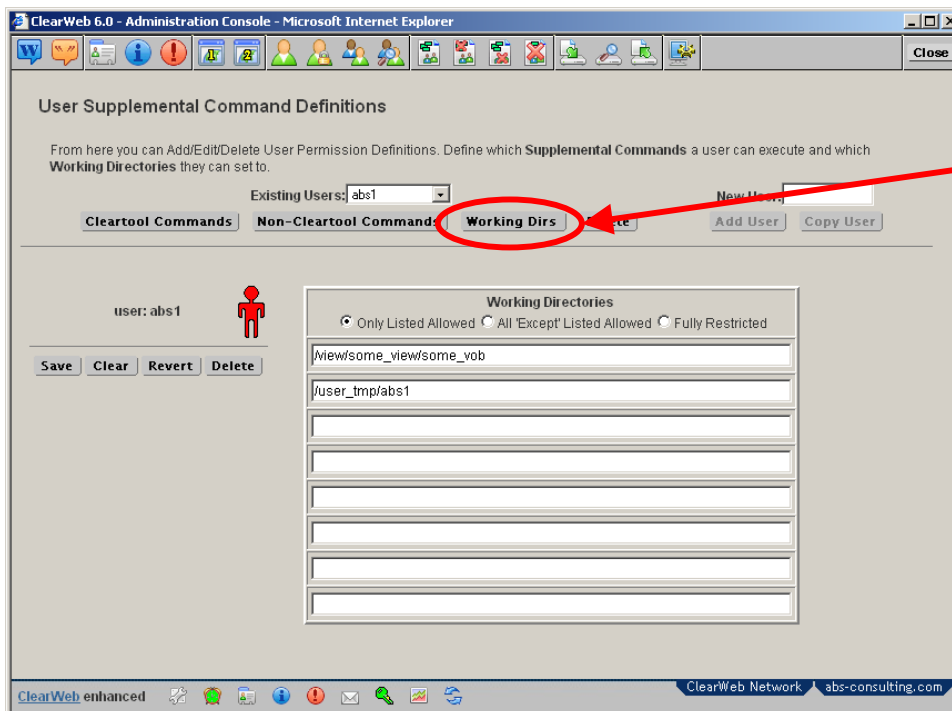
**Error: The directory "c:\blat\dd"  
does not exist on the Windows Web-server...**

or

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

If the web user needs to review which directories they can set/change to then they may select the associated [HELP](#) button.

Any working directory definitions are defined by the administrator for web users via the [ClearWeb Administration Console](#). To create or change Working Directory entries, the ClearWeb Administrator can open the ClearWeb Administration Console  from the ClearWeb Toolbar and then select the  icon in the toolbar in the ClearWeb Administration Console...



then select the  
“Working Dirs” button to  
designate which working  
directories the user can (or can  
not) set to.

## Help for Change/Set Working Directory

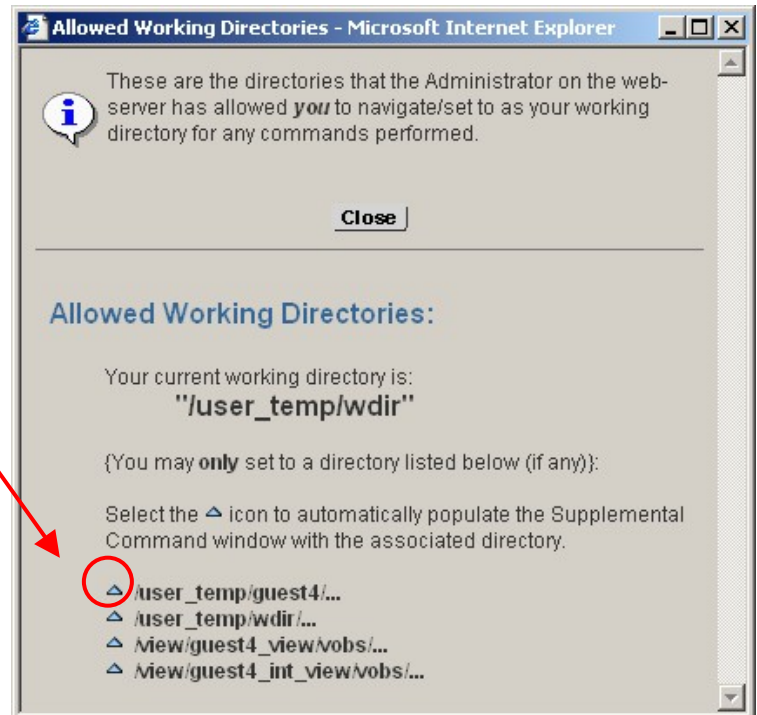
When Help in Allowed Working Directories is selected then any one of 4 types of dialog might be displayed. Which one is displayed depends on what the web administrator has defined for that web user.

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

This informs the user that they 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.

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

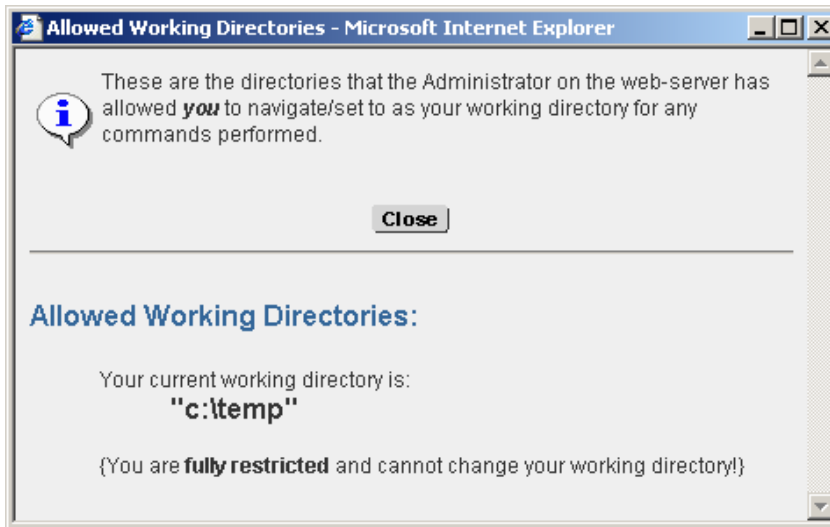
If the web user may set to all directories “except” a few then a dialog similar to the one below is displayed.



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

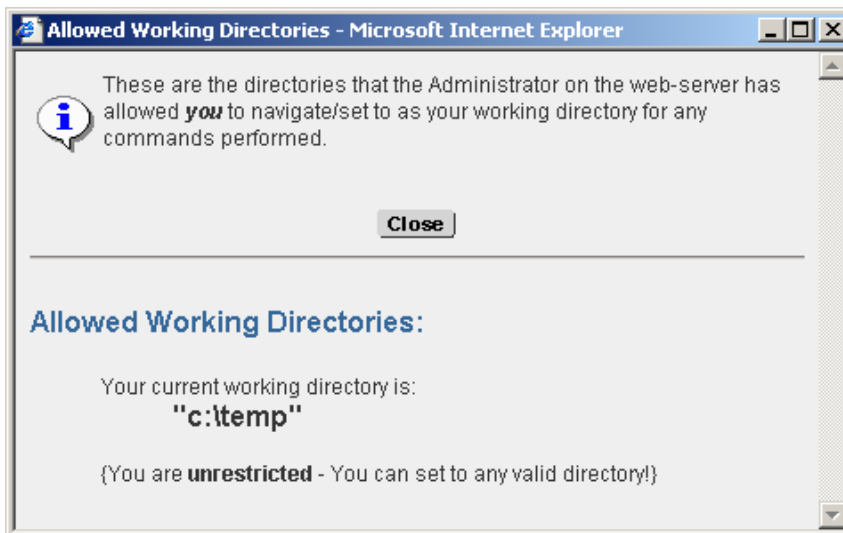


If the web administrator does not allow the web-user to change their working directory to any directory then a dialog similar to the one below is displayed.



The web-user is informed that they couldn't change their working directory.

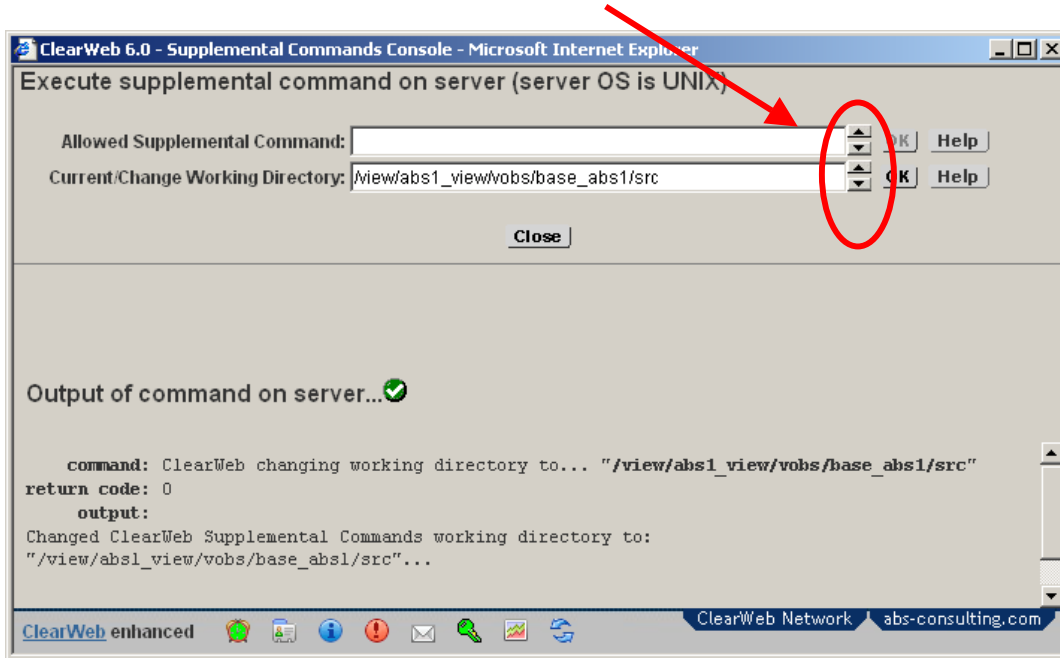
Finally, if the web administrator does not restrict the web-user at all then a dialog similar to the one below is displayed.



The web-user is informed that they can change to any valid working directory that currently exists on the web-server.

## History Arrows


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

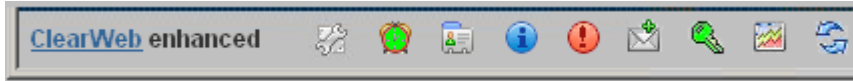


The buffers values are stored only for the current “Supplemental Commands” session and are reset if the Supplemental Command or Working Directory field is populated via **populator icons** in the help menus.

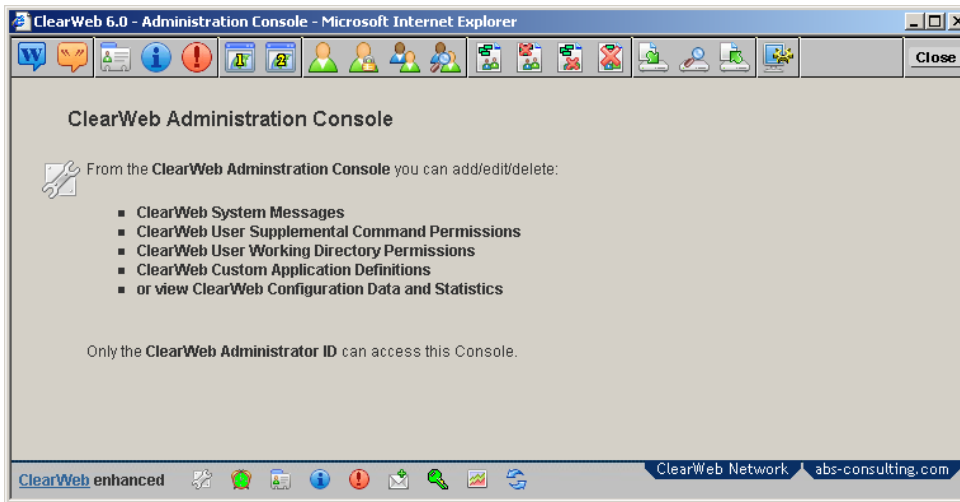


## Administrator Admin Console













If the logged on user is the ClearWeb Administrator ([CLEARWEB\\_ADMIN\\_ID](#)) then the Administration Console icon  is displayed on ClearWeb Toolbars.



The ClearWeb Administrator can select this icon to open the ClearWeb Admin Console.



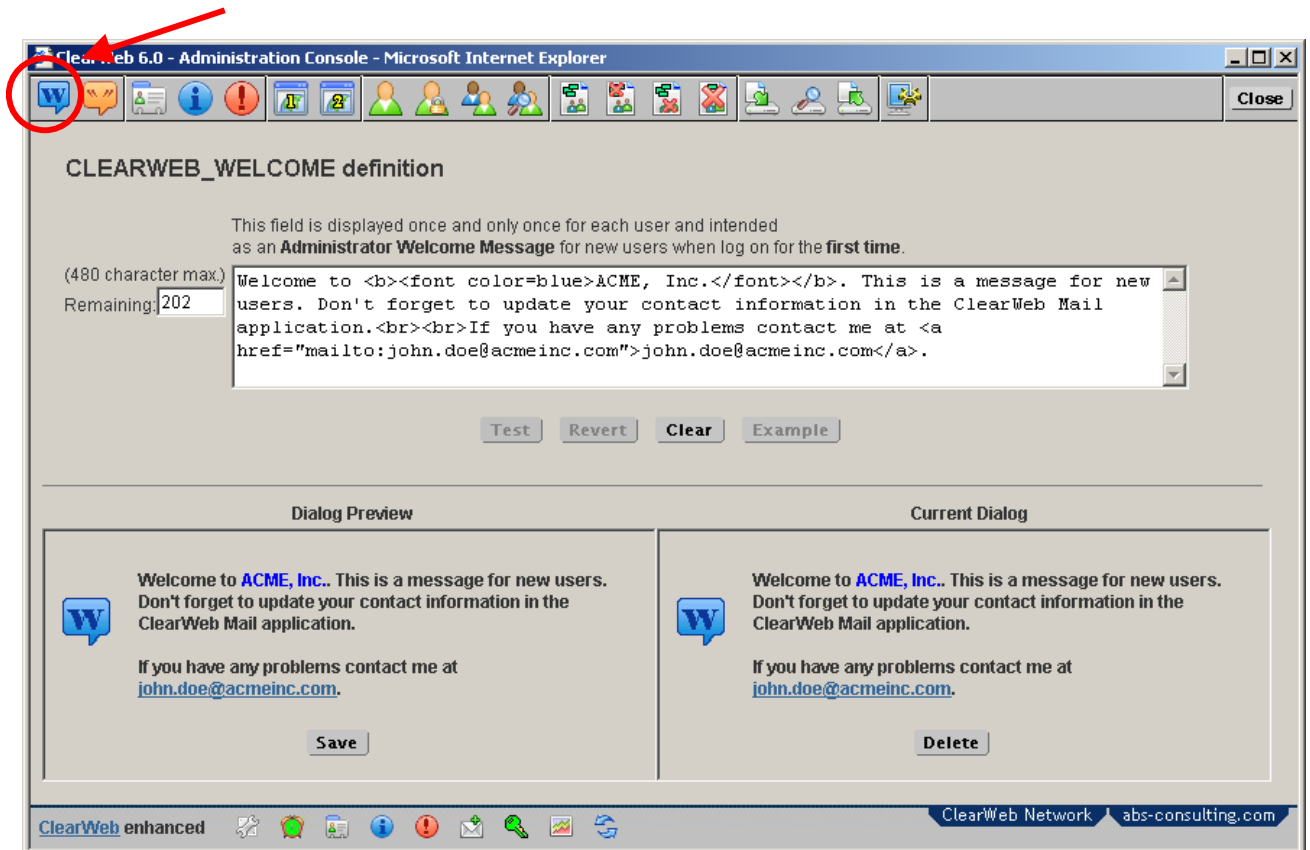
Each item in the Menu Bar is displayed alongside a description of what that menu item performs.

Graphical Component	Purpose
	Add/View/Edit/Test/Delete Administrator “ <a href="#">Welcome Message</a> ” or “ <a href="#">Alert Message</a> ” Definition
	Add/View/Edit/Test/Delete “ <a href="#">VCARD</a> ”, “ <a href="#">MOTD</a> ” or “ <a href="#">WOTD</a> ” Definition
	Add/View/Edit/Test/Delete “ <a href="#">Custom Application Link #1 or #2</a> ” Definition
	Add/View/Edit/Test/Delete “User Supplemental Command” Definition for <a href="#">Cleartool Commands</a> , <a href="#">Non-Cleartool Commands</a> and <a href="#">Working Directories</a> .
	Add/View/Edit/Delete <a href="#">User Allowed VOBs/Directories</a> or <a href="#">User Allowed Navigation Times</a> .
	View User Contact Information – remove users from your <a href="#">ClearWeb User Community</a>
	View ClearWeb <a href="#">User Statistics</a>
	View <a href="#">ClearWeb Configuration File</a>
	Delete <a href="#">Message Dialog Definitions</a> or <a href="#">User-Specific Definitions</a> or <a href="#">ALL Definitions</a> from the ClearWeb Configuration File
	<a href="#">Backup</a> the ClearWeb Configuration File, <a href="#">View the Backup</a> , <a href="#">Restore from Backup</a>
	View the Current ClearWeb <a href="#">Environment and Settings</a> .
	Close the ClearWeb Administration Console

## Administrator Welcome Message

The ClearWeb Administrator can define a standard welcome message that is displayed to their new ClearWeb Users when they logon on for the first time. This is useful for informing them who you are, directing them where they can get help if needed or reminding them of some initial action they should perform. The **Administrator Welcome Message Definition** is saved to the [clearweb\\_config.txt](#) file once properly defined. .

To add, delete or change the Administrator Welcome Message the ClearWeb Administrator selects the **Administrator Welcome Icon** from the Administrator Console Menu bar.



The ClearWeb Admin can modify the definitions text from the “definition” frame, select the test button to display that definition in the “Dialog Preview” frame. If the Administrator is pleased with the “look” of the definition then they can save the definition. Saving the definition writes the definition to the clearweb\_config.txt file and displays the definition in the “Current Dialog” frame. The ClearWeb Administrator can delete the definition from the “Current Dialog Frame”.

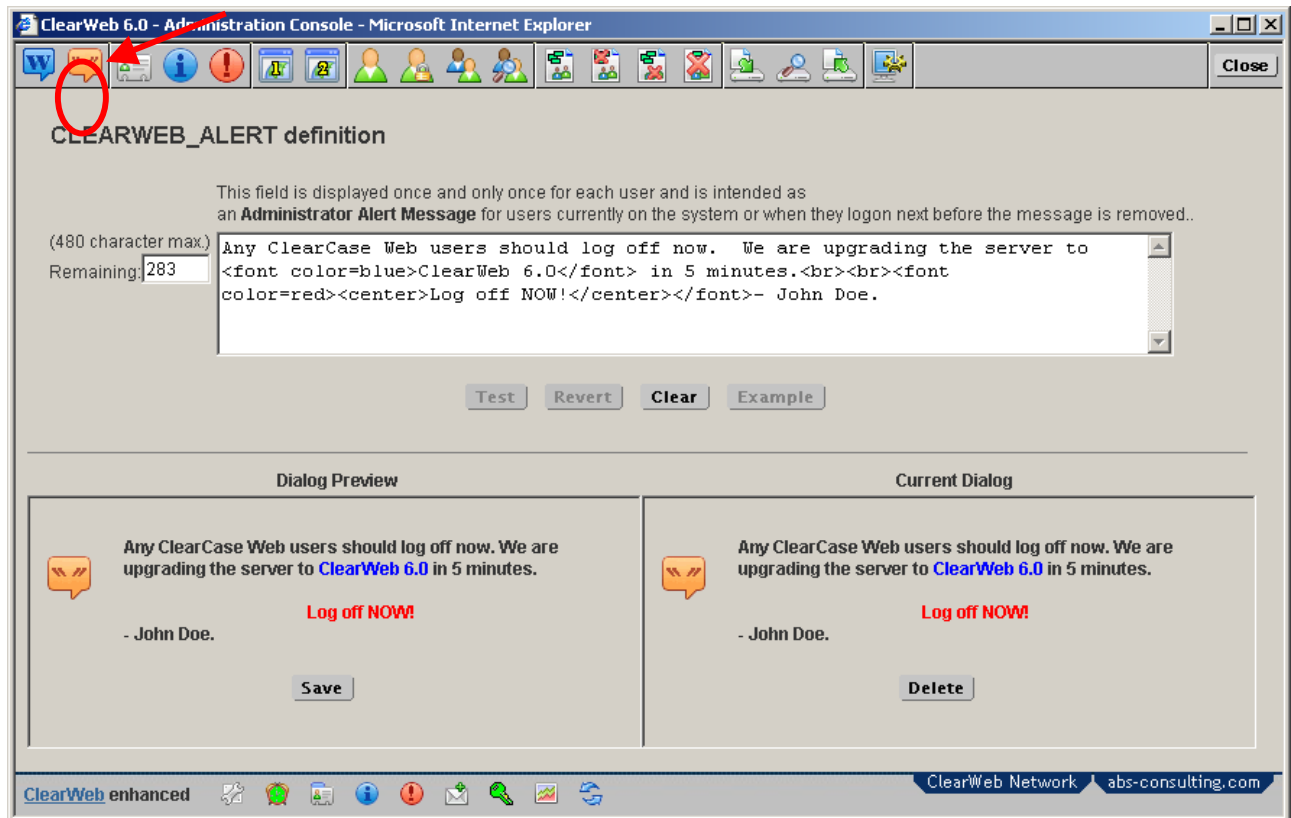
The buttons “Test”, “Revert”, “Clear” or “Example” are only available when it makes sense for them to be. (i.e. the “Clear” button is available only when there is text in the definition field; the “Revert” button is only available when the text in the definition is different from the “Current Definition”.

The “Example” button places an example definition in the definition text (useful when getting started).

## Administrator Alert Message

The ClearWeb Administrator can define an Alert Message that is displayed instantly (within 30 seconds) to any currently logged on ClearWeb User or to any user that logs on to ClearWeb before the message definition is removed. This is useful for informing them that you are about to perform system upgrades immediately. The **Administrator Alert Message definition** is saved to the [clearweb\\_config.txt](#) file once properly defined.

To add, delete or change the Administrator Alert Message the ClearWeb Administrator selects the **Administrator Alert Icon** from the Administrator Console Menu bar.



The ClearWeb Admin can modify the definitions text from the “definition” frame, select the test button to display that definition in the “Dialog Preview” frame. If the Administrator is pleased with the “look” of the definition then they can save the definition. Saving the definition writes the definition to the [clearweb\\_config.txt](#) file and displays the definition in the “Current Dialog” frame. The ClearWeb Administrator can delete the definition from the “Current Dialog Frame”.

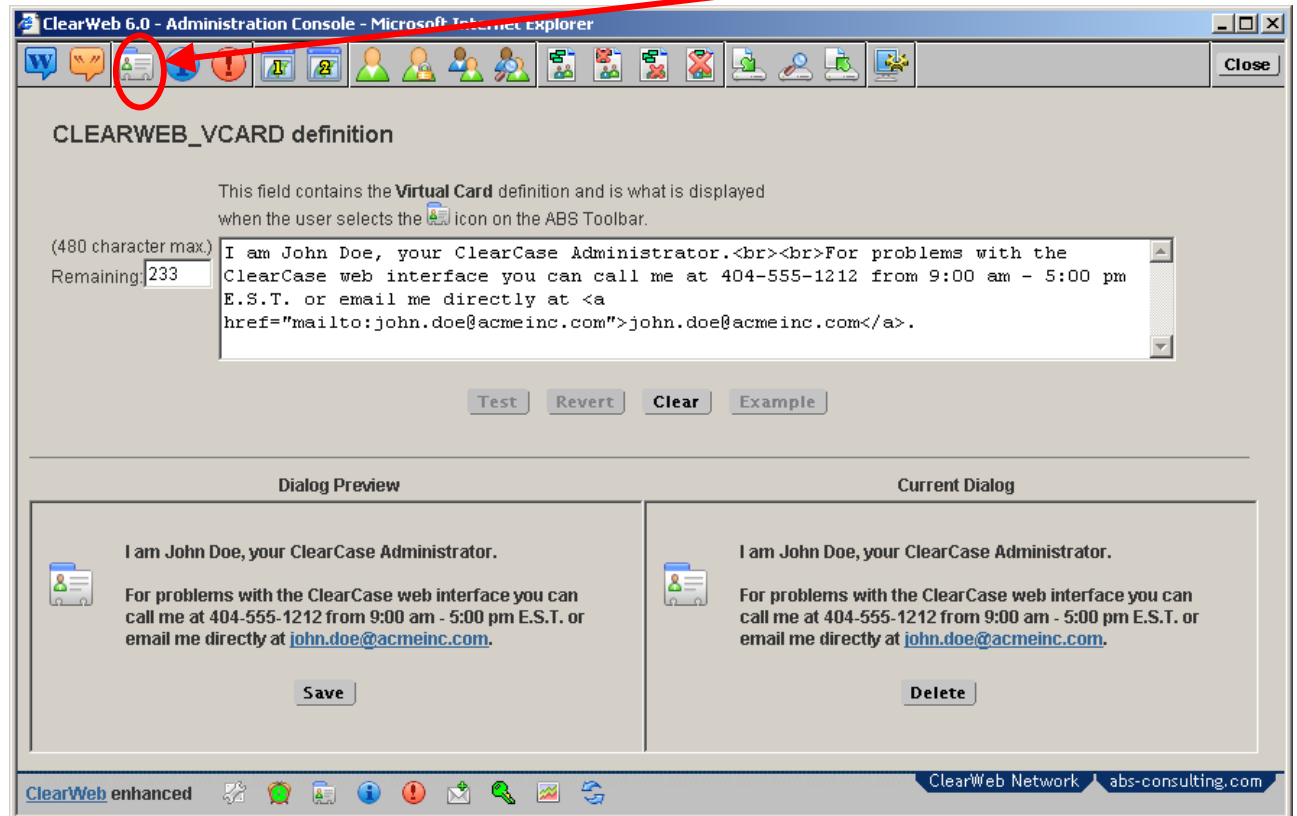
The buttons “Test”, “Revert”, “Clear” or “Example” are only active when it makes sense for them to be active (i.e. the “Clear” button is available only when there is text in the definition field; the “Revert” button is only available when the text in the definition is different from the “Current Definition”.

The “Example” button places an example definition in the definition text (useful when getting started).

## Administrator VCARD

The ClearWeb Administrator can define a VCARD (Virtual Business Card) for their Web Users to see. 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. The Administrator **VCARD definition** is saved to the [clearweb\\_config.txt](#) file once properly defined.

The **VCARD icon** only appears if defined by the ClearWeb Administrator. To add, delete or change the Administrator VCARD the ClearWeb Administrator selects the **Administrator VCARD Icon** from the Administrator Console Menu bar.



The ClearWeb Admin can modify the definitions text from the “definition” frame, select the test button to display that definition in the “Dialog Preview” frame. If the Administrator is pleased with the “look” of the definition then they can save the definition. Saving the definition writes the definition to the clearweb\_config.txt file and displays the definition in the “Current Dialog” frame. The ClearWeb Administrator can delete the definition from the “Current Dialog Frame”.

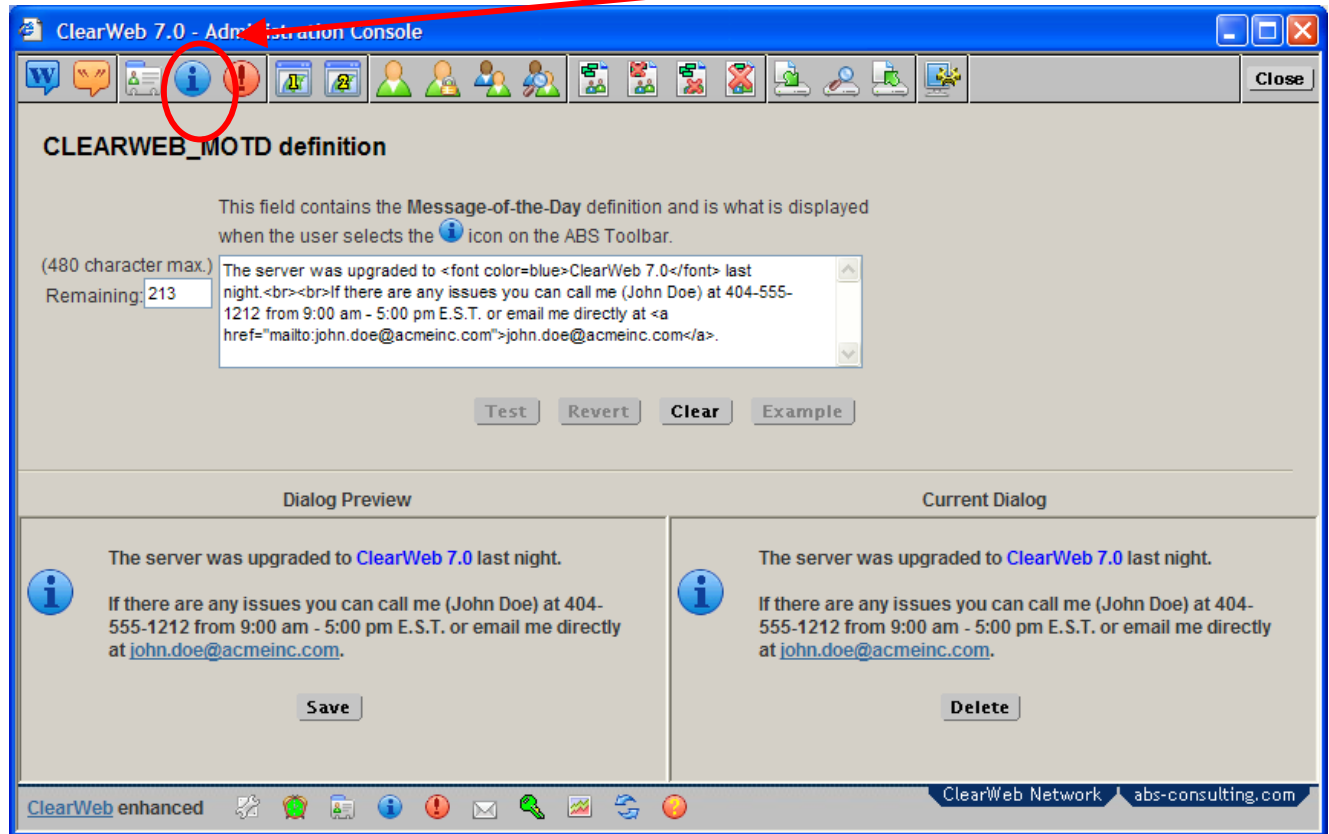
The buttons “Test”, “Revert”, “Clear” or “Example” are only active when it makes sense for them to be active (i.e. the “Clear” button is available only when there is text in the definition field; the “Revert” button is only available when the text in the definition is different from the “Current Definition”).

The “Example” button places an example definition in the definition text (useful when getting started).

## Administrator MOTD

The ClearWeb Administrator can define a MOTD (Message of the Day) for their Web Users to see. 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. The administrator might choose to place important ClearCase-centric or developer-centric announcements here. The **Administrator MOTD Definition** is saved to the [clearweb\\_config.txt](#) file once properly defined.

The **MOTD icon** only appears if defined by the ClearWeb Administrator. To add, delete or change the Administrator MOTD the ClearWeb Administrator selects the **Administrator MOTD Icon** from the Administrator Console Menu bar.



The ClearWeb Admin can modify the definitions text from the “definition” frame; select the test button to display that definition in the “Dialog Preview” frame. If the Administrator is pleased with the “look” of the definition then they can save the definition. Saving the definition writes the definition to the clearweb\_config.txt file and displays the definition in the “Current Dialog” frame. The ClearWeb Administrator can delete the definition from the “Current Dialog Frame”.

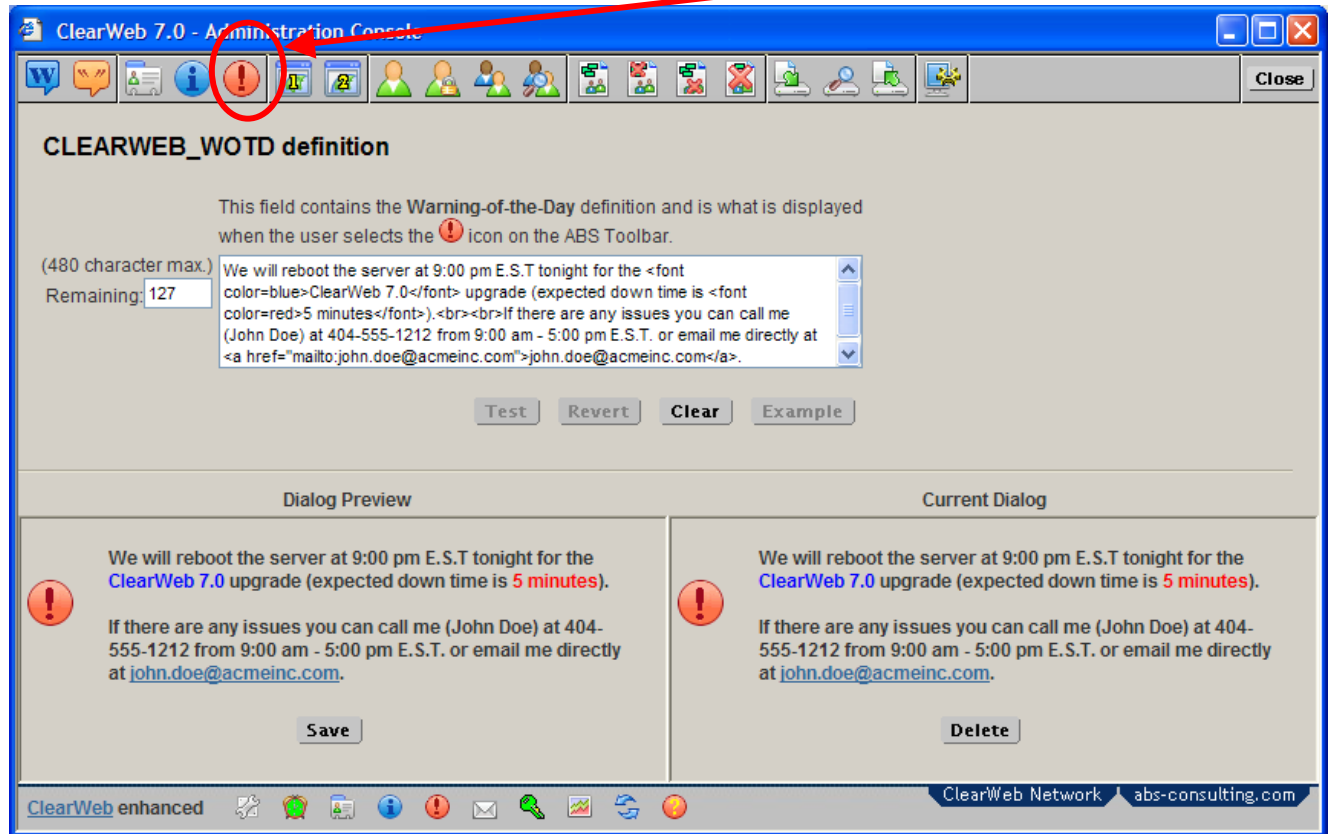
The buttons “Test”, “Revert”, “Clear” or “Example” are only active when it makes sense for them to be active (i.e. the “Clear” button is available only when there is text in the definition field; the “Revert” button is only available when the text in the definition is different from the “Current Definition”.

The “Example” button places an example definition in the definition text (useful when getting started).

## Administrator WOTD

The ClearWeb Administrator can define a WOTD (Warning of the Day) for their Web Users to see. The WOTD serves as a way for the administrator to “post” critical 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 important ClearCase-centric or developer-centric announcements here. The **Administrator WOTD Definition** is saved to the [clearweb\\_config.txt](#) file once properly defined.

The **WOTD icon** only appears if defined by the ClearWeb Administrator. To add, delete or change the Administrator WOTD the ClearWeb Administrator selects the **Administrator WOTD Icon** from the Administrator Console Menu bar.



The ClearWeb Admin can modify the definitions text from the “definition” frame; select the test button to display that definition in the “Dialog Preview” frame. If the Administrator is pleased with the “look” of the definition then they can save the definition. Saving the definition writes the definition to the clearweb\_config.txt file and displays the definition in the “Current Dialog” frame. The ClearWeb Administrator can delete the definition from the “Current Dialog Frame”.



The buttons “Test”, “Revert”, “Clear” or “Example” are only active when it makes sense for them to be active (i.e. the “Clear” button is available only when there is text in the definition field; the “Revert” button is only available when the text in the definition is different from the “Current Definition”.

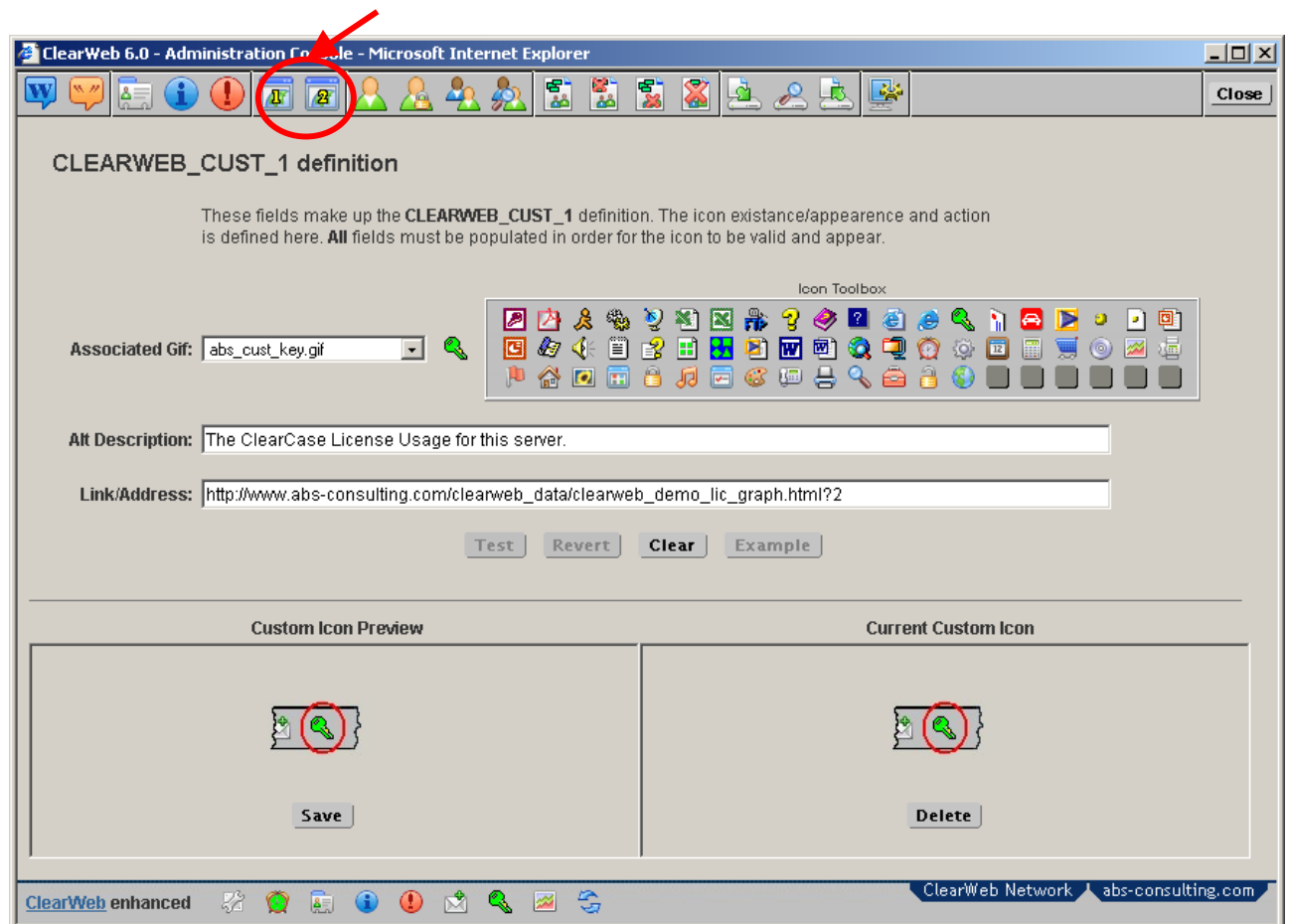
The “Example” button places an example definition in the definition text (useful when getting started).



## End-User Custom Links

The ClearWeb Administrator can define up to two (2) Custom Application Link Definitions for their Web Users to see and use. The Custom Link serves as a way for the administrator make additional information or applications available to their web users. The **Custom Application Link Definition** is saved to the [clearweb\\_config.txt](#) file once properly defined.

The **Defined Custom Application** only appears if defined by the ClearWeb Administrator. To add, delete or change Custom Application Link Definitions (s) the ClearWeb Administrator selects either the  or the  **Custom Application icon** from the toolbar in the ClearWeb Administration Console.



The ClearWeb Admin can select an **Associated Gif**, modify the definitions **Alt Description** Text and **Link/Address** Text from the “definition” frame. The Associated Gif can be selected from the Pull down Menu by name or just clicking the desired icon in the **Icon Toolbox**. Once all three (3) fields are populated with valid information the administrator can select the test button to display that definition in the “Dialog Preview” frame.

The new image is displayed in a partial toolbar so the administrator can preview how it will be placed in the resulting toolbars.

If the **CLEARWEB\_CUST\_1** definition is being displayed, it will be displayed to the **right** of the **mail toolbar icon**.



If the **CLEARWEB\_CUST\_2** definition is being displayed, it will be displayed to the **left** of the **reload toolbar icon**.



The administrator should click the displayed icon in the test frame to make sure it opens the link or web-enabled application that they expect. If the Administrator is pleased with the “look and action” of the definition a then the they can save the definition. Saving the definition writes the definition to the clearweb\_config.txt file and displays the definition in the “Current Dialog” frame. The ClearWeb Administrator can delete the definition from the “Current Dialog Frame”.

The buttons “Test”, “Revert”, “Clear” or “Example” are only available when it makes sense for them to be (i.e. the “Clear” button is available only when one or more of the fields are populated; the “Revert” button is only available one or more fields in the definition is different from the “Current Definition”.

The “Example” button populates all input fields with example (useful when getting started).

The Icon Toolbox contain three (3) types of icons. The sections are color coded here for illustration purposes:



Section Description	image names in the ../custom_images directory	
Six (6) icons you can change to taste and use at will (all icons are displayed as 16x16 pixels)	(abs_cust__1.gif – abs_cust__6.gif)	●
ClearWeb icons designed to associate with existing ClearWeb toolbar icons	(cw_alarm.gif – cw_web.gif)	●
Common well-known application icons.	(abs_cust_access.gif – abs_cust_zip.gif)	●

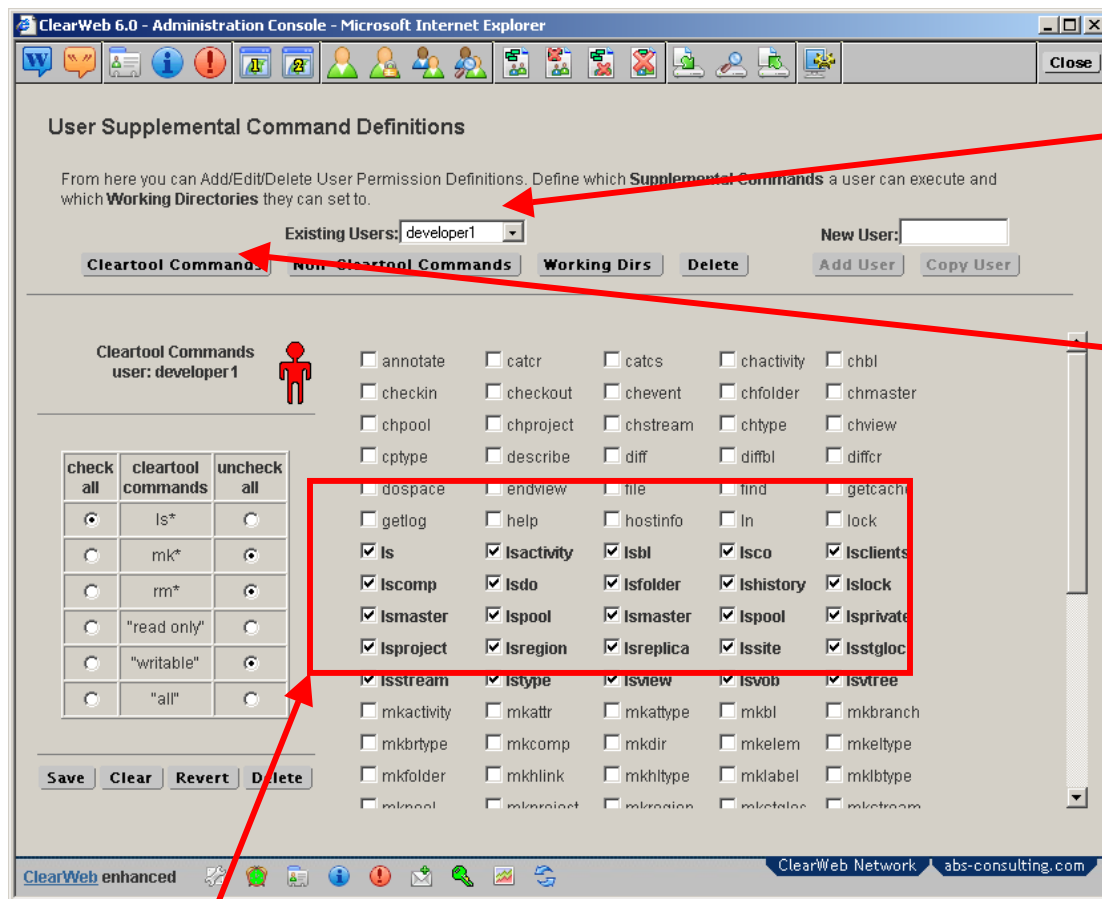


## Cleartool Command Key definitions

The administrator can define any set of the [supported cleartool commands](#) to a user or group of users by adding a **cleartool command key** to the [clearweb\\_config.txt](#) file.

The ClearWeb Administrator can allow or disallow and cleartool commands from the supported set of cleartool commands for a web user by defining a **cleartool command key** definition. The **Cleartool Command Key Definition** is saved to the [clearweb\\_config.txt](#) file once properly defined.

The **Supplemental Commands** tab appears on appropriate ClearWeb Toolbars for a web user only if the ClearWeb Administrator has allowed that user to execute at least one cleartool or non-cleartool supplemental command. To add, delete or change Supplemental Command Definitions (for cleartool commands), the ClearWeb Administrator can open the [ClearWeb Administration Console](#)  from the ClearWeb Toolbar and then select the  icon in the toolbar in the ClearWeb Administration Console...






- ... select the appropriate user from the list of **Existing Users**:...

...then select the  
**“Cleartool  
 Commands”**  
 button to  
 view/change the  
 cleartool  
 commands that the  
 selected user can  
 perform...

The **bolded** commands are the commands that were currently checked when this screen was entered so that it is easy for the ClearWeb Administrator to see which changes they have made against what was current when they started to make changes.

The **Genetics Icon** lets you know where the user derives these command characteristics. If the administrator has not explicitly defined the command key type for the user then the definition of the “Default Users” (which is required) will be used for that user. The Genetics Icon will appear in one of three (3) forms:

Genetics Icon	What that Genetics Icon means...
	The displayed characteristics are for listed user and the listed user is the “Default User” group.
	No explicit user definition for this definition type exists and the displayed characteristics are inherited from the “Default User” definition for this definition type.
	The displayed characteristics are explicitly defined for the listed user

**Note:** If there is no explicit definition for this section then definition from the “Default Users” is used. If this section for the “Default Users” is not defined then ClearWeb automatically creates that definition (the most restrictive one – no cleartool commands are allowed) and inherits that definition.

The ClearWeb Administrator can select cleartool commands one-by-one by selecting desired check boxes or they can select groups by selecting the radio buttons. Selecting a radio button will check or uncheck all commands within the group. The groups are defined below...

Group	Associated Cleartool Commands
ls*	All cleartool <b>ls</b> commands (i.e. lsview, lsvob, lsco... etc.)
mk*	All cleartool <b>mk</b> commands (i.e. mkview, mkvob, mklbtype... etc.)
rm*	All cleartool <b>rm</b> commands (i.e. rmview, rmvob, rmtype... etc.)
“read only”	All cleartool commands that do NOT write or remove data (i.e. lsvob, catcs, describe... etc.)
“writable”	All cleartool commands that write or remove data (i.e. checkout, rmvob, mkvob.. etc.)
“all”	All supported cleartool commands


The supported cleartool subcommands are listed below in alphabetical order:

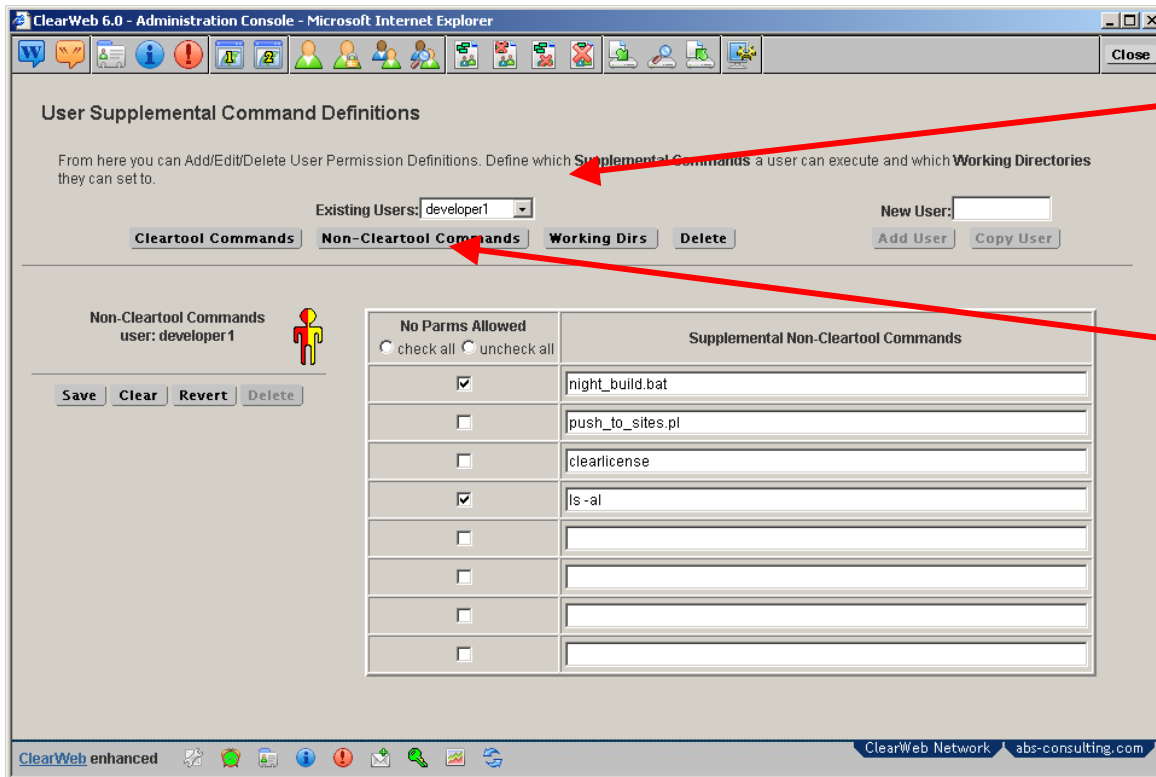
annotate	cattr	cates	chactivity	chbl	checkin	checkout
chevent	chfolder	chmaster	chpool	chproject	chstream	chtype
chview	cptype	describe	diff	diffbl	diffcr	dospace
endview	file	find	getcache	getlog	help	hostinfo
ln	lock	ls	lsactivity	lsbl	lsco	lsclients
lscomp	lsdo	lsfolder	lshistory	lslock	lsmaster	lspool
lsmaster	lspool	lsprivate	lsproject	lsregion	lsreplica	lssite
lsstgloc	lsstream	lstype	lsview	lsvob	lsvtree	man
mkactivity	mkattr	mkatype	mkbl	mkbranch	mkbrtype	mkcomp
mkdir	mkelem	mkeltype	mkfolder	mkhlink	mkhltype	mklabel
mklbtype	mkpool	mkproject	mkregion	mkstgloc	mkstream	mktag
mktrigger	mktrtype	mkview	mkvob	mount	mv	protect
protectvob	recoverview	reformatview	reformatvob	register	rename	reqmaster
reserve	rmactivity	rmattr	rmbl	rmbranch	rmcomp	rmdo
rmelem	rmfolder	rmhlink	rmlabel	rmmerge	rmname	rmpool
rmproject	rmstgloc	rmstream	rmtag	rmtrigger	rmtype	rmver
rmview	rmvob	setactivity	schedule	setcache	setcs	setplevel
setsite	space	startview	umount	uncheckout	unlock	unregister
unreserve	update	winkin				

## Non-Cleartool Command Key definitions

The administrator can define any set of non-cleartool commands, scripts or programs that a user or group of users by adding a **non-cleartool command key** to the [clearweb\\_config.txt](#) file.

The **Non-Cleartool Command Key Definition** is saved to the [clearweb\\_config.txt](#) once properly defined.

The **Supplemental Commands** tab appears on appropriate ClearWeb Toolbars for a web user only if the ClearWeb Administrator has allowed that user to execute at least one cleartool or non-cleartool supplemental command. To add, delete or change Supplemental Command Definitions (for cleartool commands), the ClearWeb Administrator can open the [ClearWeb Administration Console](#) from the ClearWeb Toolbar and then select the  icon in the toolbar in the ClearWeb Administration Console...



**User Supplemental Command Definitions**

From here you can Add/Edit/Delete User Permission Definitions. Define which **Supplemental Commands** a user can execute and which **Working Directories** they can set to.

Existing Users:  New User:

**Cleartool Commands** **Non-Cleartool Commands** **Working Dirs** **Delete**

**Non-Cleartool Commands**  
user: developer1

No Parms Allowed	Supplemental Non-Cleartool Commands
<input checked="" type="checkbox"/>	night_build.bat
<input type="checkbox"/>	push_to_sites.pl
<input type="checkbox"/>	clearlicense
<input checked="" type="checkbox"/>	ls -al
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	




... select the appropriate user from the list of **Existing Users**:...

... then select the **"Non-Cleartool Commands"** button to view/change the cleartool commands that the selected user can perform...

One or more commands, scripts or programs can be entered for a user.

The user will have to start the command exactly as the administrator typed it before it is valid. The administrator can place in required parameters if desired (that the user must also type in). The administrator can select the **"No Parms Allowed"** check box for a particular command to ensure that "additional" parameters are not allowed for that command. If the **"No Parms Allowed"** check box is not selected for a command then the user may place optional parameters with that command.

The **Genetics Icon** lets you know where the user derives these command characteristics. If the administrator has not explicitly defined the command key type for the user then the definition of the “Default Users” (which is required) will be used for that user. The Genetics Icon will appear in one of three (3) forms:



Group	Associated Non-Cleartool Commands
	The displayed characteristics are for listed user and the listed user is the “Default User” group.
	No explicit user definition for this definition type exists and the displayed characteristics are inherited from the “Default User” definition for this definition type.
	The displayed characteristics are explicitly defined for the listed user.

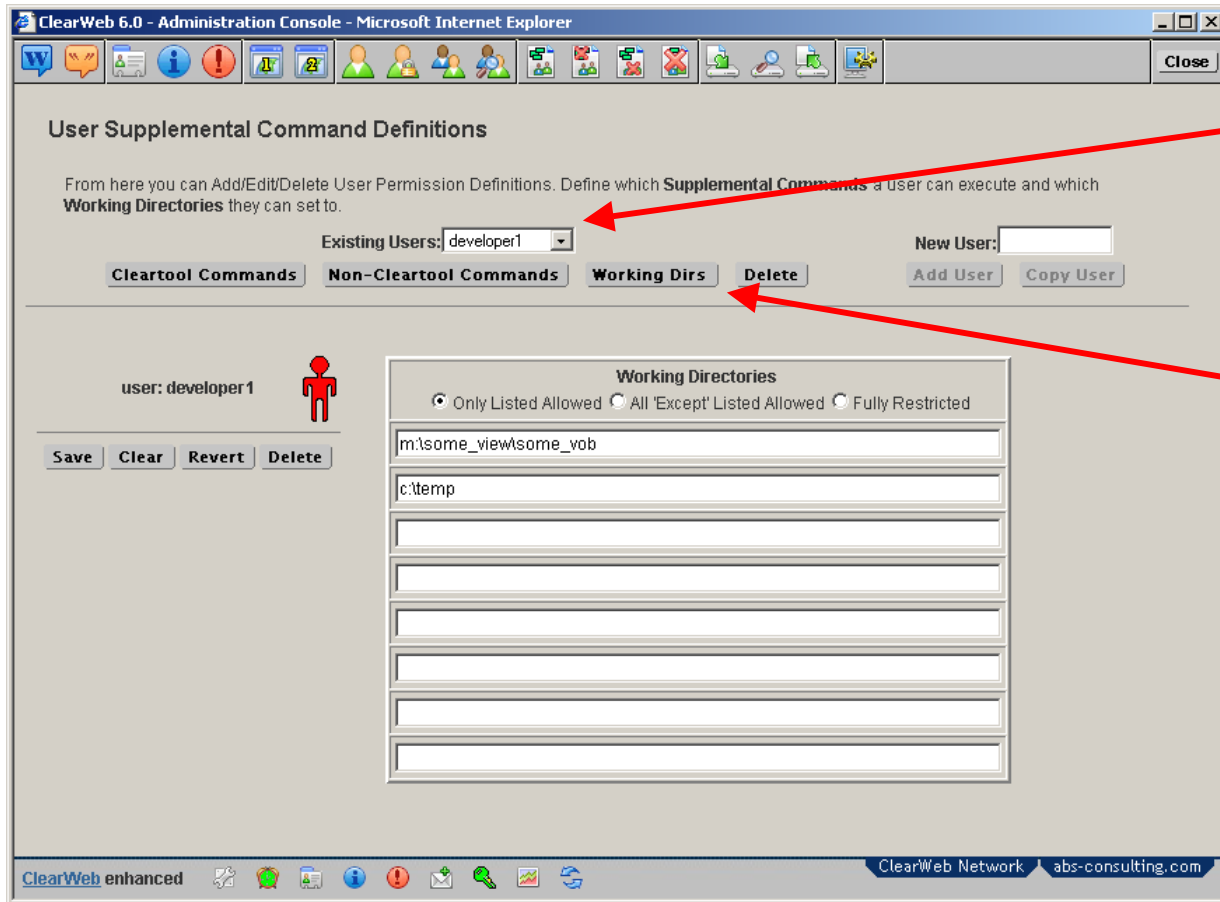
**Note:** Any Non-Cleartool Commands that the ClearWeb Administrator defines for a user should exist in that user’s path when in the ClearCase Web Environment or an explicit path should be given for the user to type.

**Note:** If there is no explicit definition for this section then definition from the “Default Users” is used. If this section for the “Default Users” is not defined then ClearWeb automatically creates that definition (the most restrictive one – no non-cleartool commands are allowed) and inherits that definition.

## Working Directory definitions

The administrator can define a set of Working Directories that a user or group of user may set to by adding a **Working Directory Definition** to the [clearweb\\_config.txt](#) file. Working Directories are the “directory Context” that user Supplemental Commands are executed in. Once properly defined the **Working Directory Definition** is saved to the [clearweb\\_config.txt](#) once properly defined.

The **Supplemental Commands** tab appears on appropriate ClearWeb Toolbars for a web user only if the ClearWeb Administrator has allowed that user to execute at least one cleartool or non-cleartool supplemental command. To add, delete or change Supplemental Command Definitions (for cleartool commands), the ClearWeb Administrator can open the [ClearWeb Administration Console](#)  from the ClearWeb Toolbar and then select the  icon in the toolbar in the ClearWeb Administration Console...






... select the appropriate user from the list of **Existing Users**:...

...then select the **“Working Dirs”** button to view/change the Working Directories that the selected user can change to...

The ClearWeb Administrator designates that

the listed directories are available or NOT available to the web user by selecting the appropriate radio button from the Working Directories radio set. Selecting “Only Listed Allowed” only allows the user to set to the listed directories while selecting “All ‘Except’ Listed Allowed” allows the user to set to any directory except those listed directories. Selecting “Fully Restricted” clears the list and allows no Working Directory changes for this user or user group. Listed directories also include their sub-directories. (i.e. /a/b includes /a/b/c)

The **Genetics Icon** lets you know where the user derives these command characteristics. If the administrator has not explicitly defined the command key type for the user then the definition of the “Default Users” (which is required) will be used for that user. The Genetics Icon will appear in one of three (3) forms:

Group	Associated Working Directories
	The displayed characteristics are for listed user and the listed user is the “Default User” group.
	No explicit user definition for this definition type exists and the displayed characteristics are inherited from the “Default User” definition for this definition type.
	The displayed characteristics are explicitly defined for the listed user.

**Note:** If there is no explicit definition for this section then definition from the “Default Users” is used. If this section for the “Default Users” is not defined then ClearWeb automatically creates that definition (the most restrictive one – no Working Directory Changes are allowed) and inherits that definition.





## User Native VOB/Directory Navigation Definitions

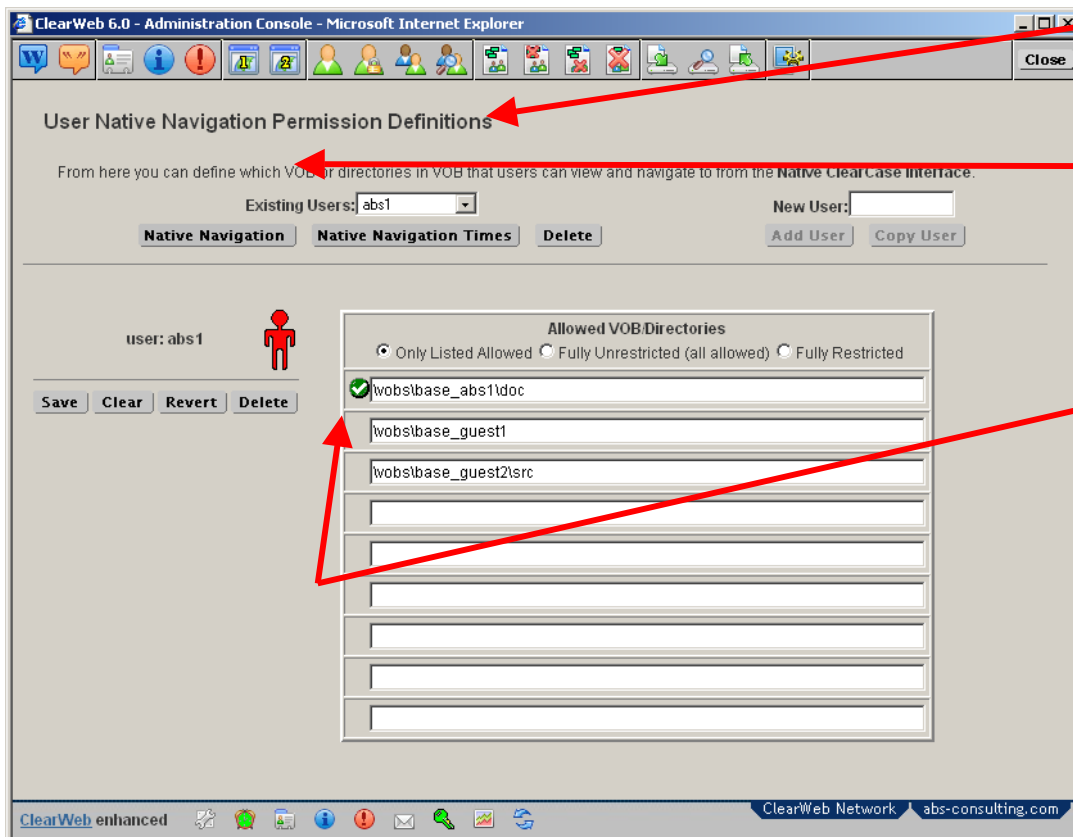
The administrator can define for any user the set of VOBs or VOB directories that are visible from or can be navigated to within the native ClearCase Web interface thus providing two main advantages:

- Security - The ClearWeb Administrator can limit the VOBs/Directories that their web users can view or navigate to
- Convenience - The ClearWeb Administrators can create directory shortcuts that their web users can directly navigate to – especially useful for often used directories in deep directory structures)

By default in the Native ClearCase Web Interface all VOBs within the default ClearCase region served by the ClearCase Web Server are visible to the web clients so in order to provide limited visibility to VOBs for different users or groups of users required multiple ClearCase Regions and multiple ClearCase Web Servers. ClearWeb administrators can designate the allowed VOBs (and even select directories in those VOBs) on a per user basis.

ClearWeb Administrators can provide a list of directories that can be directly accessed as well which can be used to limit the directories a user is allowed to see of navigate to or used to provide a “shortcut” to often used directories located in a deep directory structure (a real time saver).

To add, delete or change Allowed User VOB/Directories Command, the ClearWeb Administrator can open the [ClearWeb Administration Console](#)  from the ClearWeb Toolbar and then select the  icon in the toolbar in the ClearWeb Administration Console...



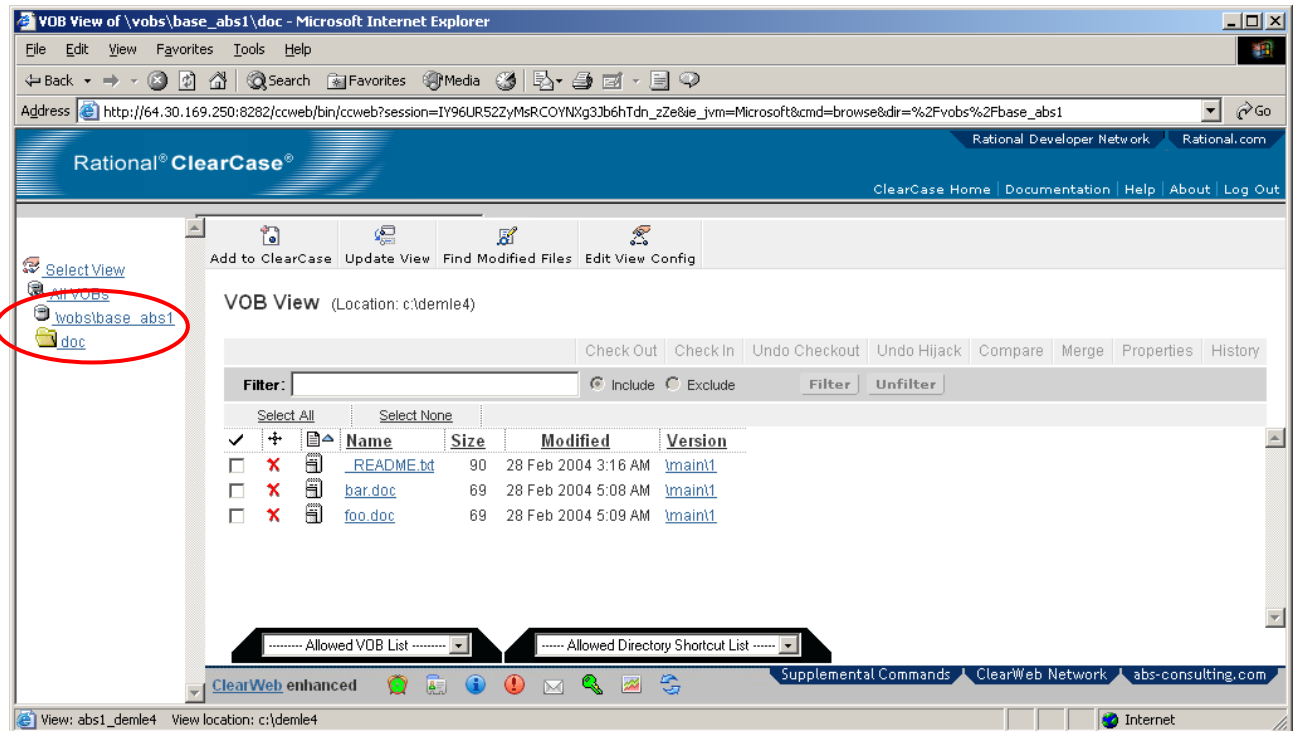
... select the appropriate user from the list of **Existing Users**:...

...then select the “**Native Navigation**” button to view/change the allowed OB/directories that the selected user can navigate to...

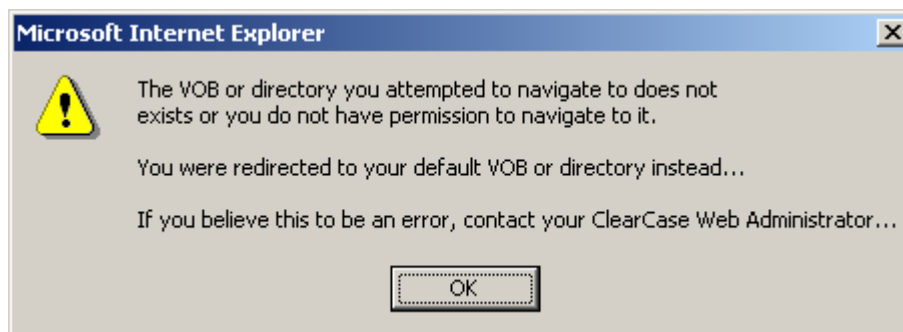
The first VOB or directory in the list is the “**Default Location**” entry.

This user can navigate to **anywhere in the base\_guest1** VOB and to the **doc** directory in the **base\_abs1** VOB and the **src** directory in the **base\_guest2** VOB.

The **Default Location** is where the user is redirected to if they attempt to manually navigate to a forbidden VOB by selecting the “All VOBs” link from the native ClearCase Web Interface (unless they are allowed to navigate to all VOBs by the ClearWeb Administrator).

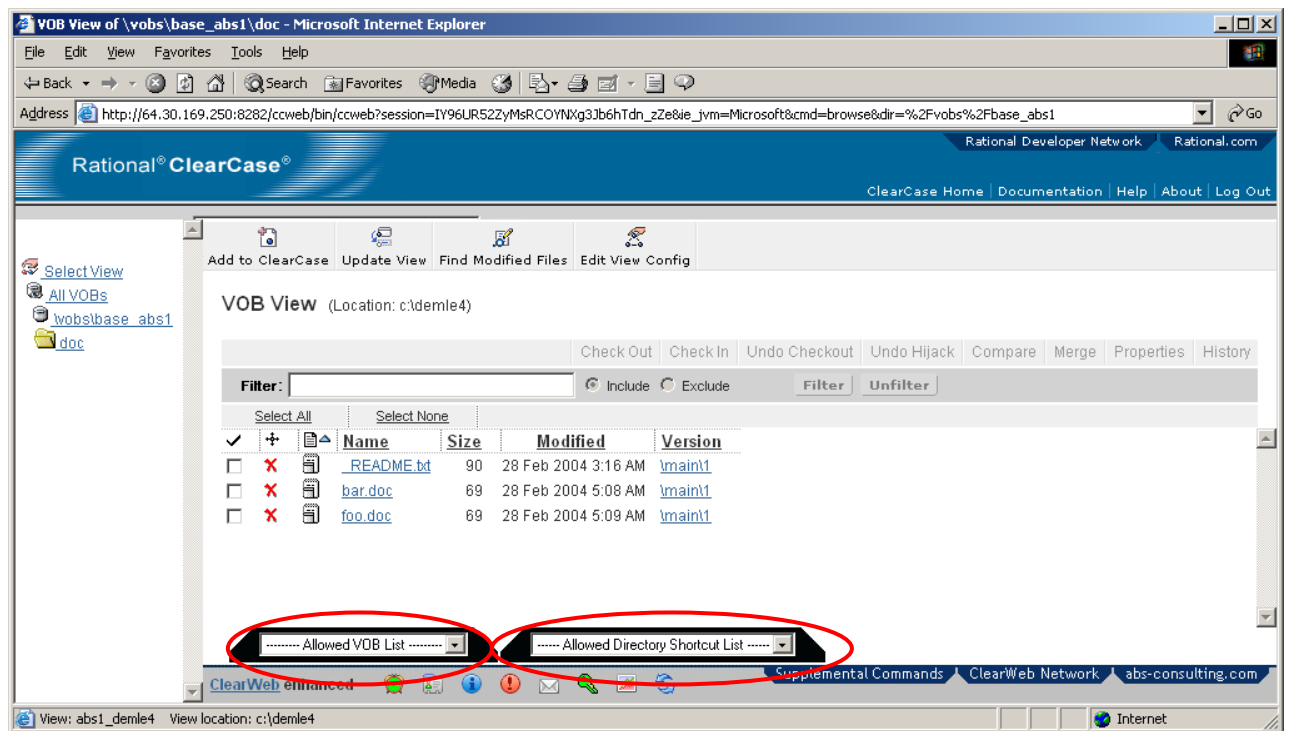


All other VOBs are hidden at all times and cannot be displayed. Since the user *is* allowed to navigate to the `\vobs\base_abs1\doc` directory the `\vobs\base_abs1` directory is displayed in the “Browse Directory” pane on the Native Interface, but the user is redirected to the **Default Location** if they attempt to navigate there.



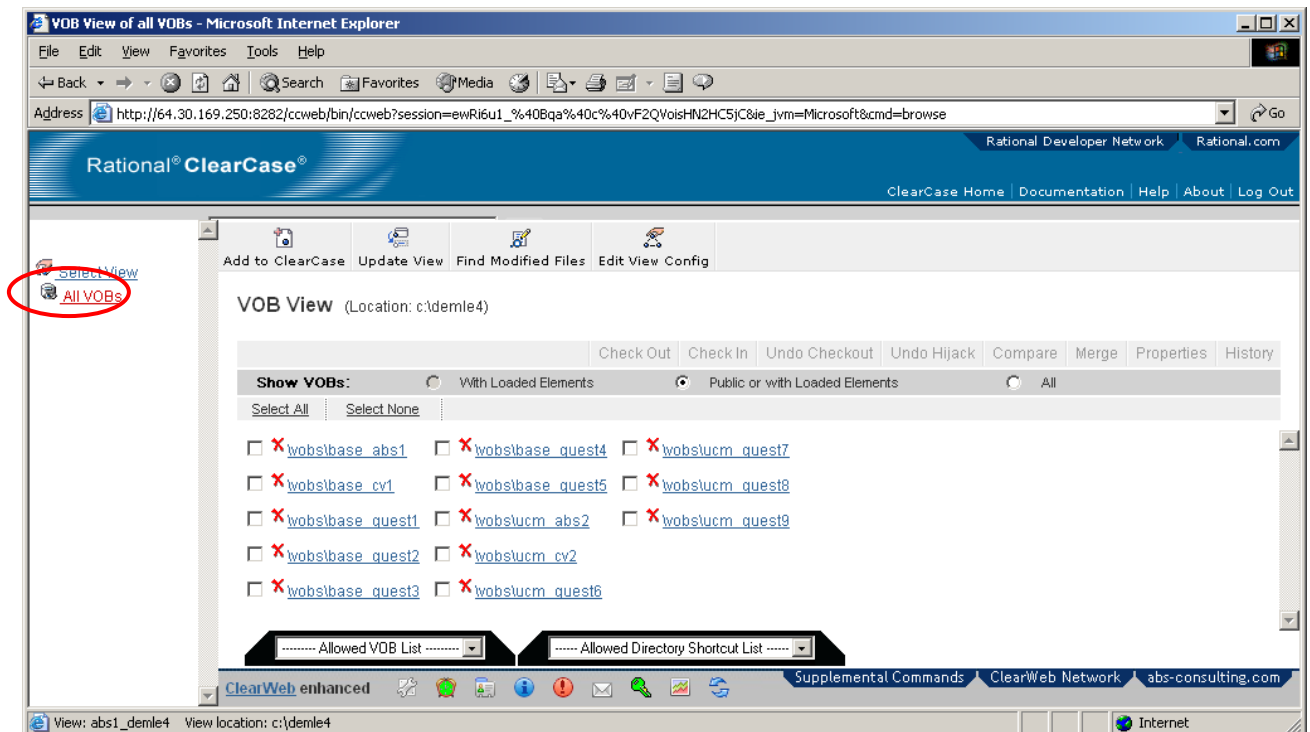
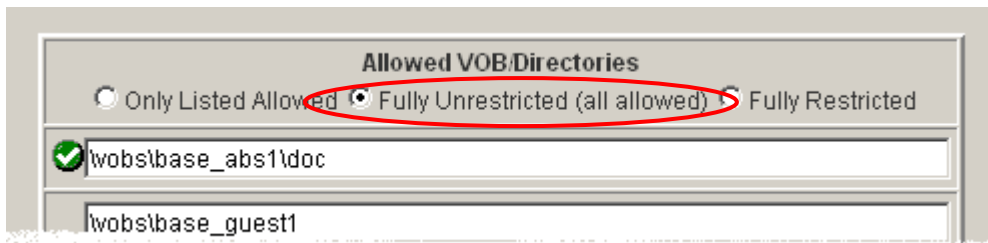
The **Allowed VOB List** displays any VOB that the user is fully allowed to navigate into if any. The list is not displayed if there is not at least one VOB to list. Selecting a VOB from the list will navigate you directly to the top of that VOB.

The **Allowed Directory Shortcut List** displays any directory within a VOB that the user is 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.



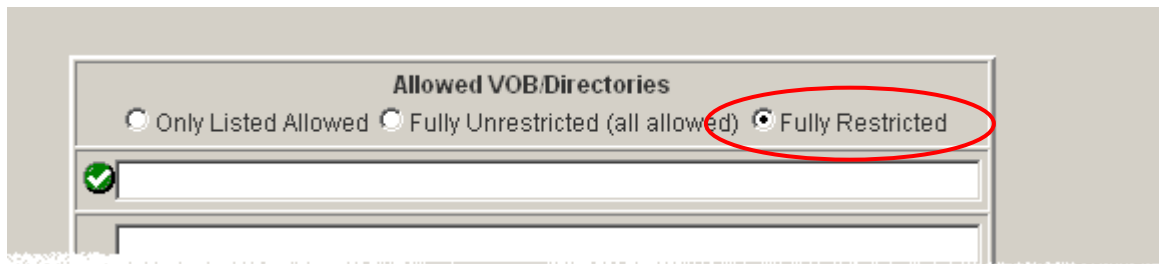
If a VOB is fully allowed by the ClearWeb Administrator and a directory in it is also specifically added as allowed by the Administrator then that VOB will be displayed in the **Allowed VOB List** and any additional directory allowed is still displayed in the **Allowed Directory Shortcut List**.

The **ALL VOBs** item on the Native ClearCase Interface can only be navigated to if and only if the **“Fully Unrestricted (all allowed)”** radio button is selected from the **Native Navigation** section of the ClearWeb Admin Console for the associated user.

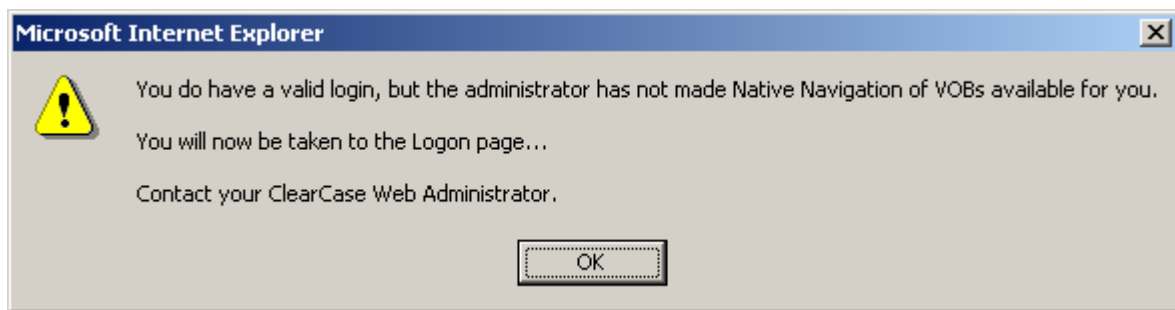


In this case all VOBs are displayed in the **Allowed VOB List** and any additional VOB Directory shortcuts are still displayed in the **Allowed Directory Shortcut List**.

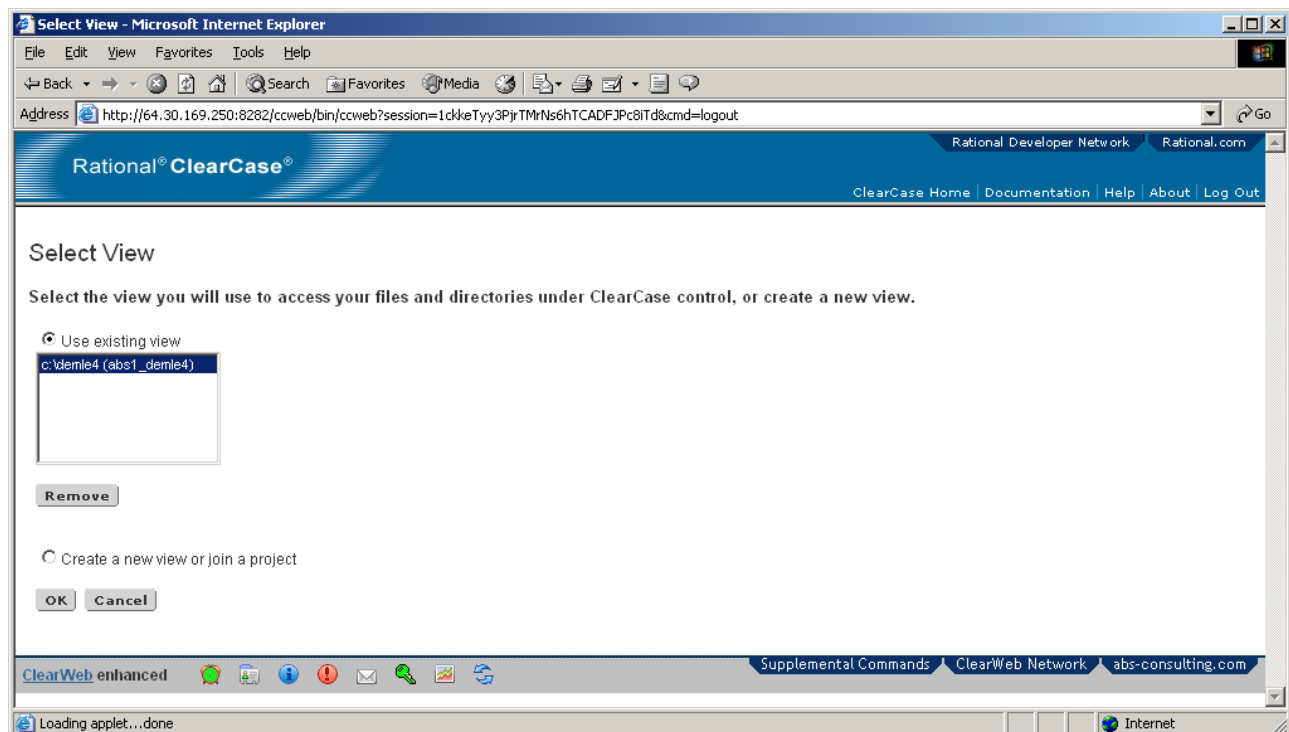
If the “**Fully Restricted**” radio button is selected from the **Native Navigation** section of the ClearWeb Admin Console for the associated user...



... then any attempt to navigate to any VOB by that user will result in a dialog similar to the one below:



The user is redirected here because it is assumed that if they have a valid ID and no native VOBs or directories defined that the ClearWeb Administrator might allow them to perform other functions that available form the ClearWeb toolbar at the Select View page.





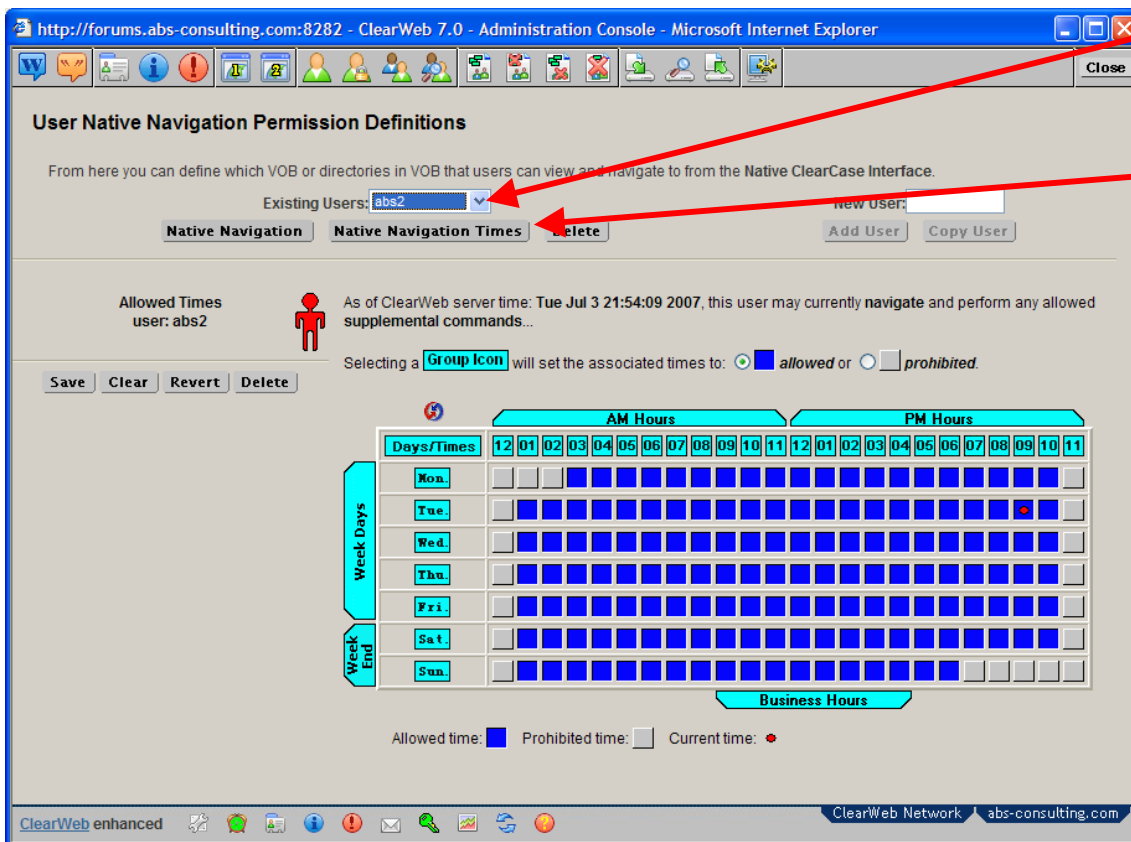
## User Allowed Navigation Time Definitions (Changed in 7.0)

The administrator can define for any user the set of allowed times that the user can navigate the Native ClearWeb Interface or perform any allowed Supplemental Commands thus providing two main advantages:

- **Security** - The ClearWeb Administrator can limit when users or groups of users can navigate the ClearCase Interface to ensure that other scheduled processes (i.e. backups, upgrades of other software or other scheduled system maintenance) interrupted or are provided the most CPU cycles.
- **Support Concerns** - The ClearWeb Administrator can limit when users or groups of users can navigate the ClearCase Interface to just the times that the supporting organization can support the users.




By default in the Native ClearCase Web Interface users may navigate the interface at any time. ClearWeb administrators can designate when ClearCase Navigation is allowed on a per user basis.


To change the Allowed User Navigation Times, the ClearWeb Administrator can open the [ClearWeb Administration Console](#)  from the ClearWeb Toolbar and then select the  icon in the toolbar in the ClearWeb Administration Console...

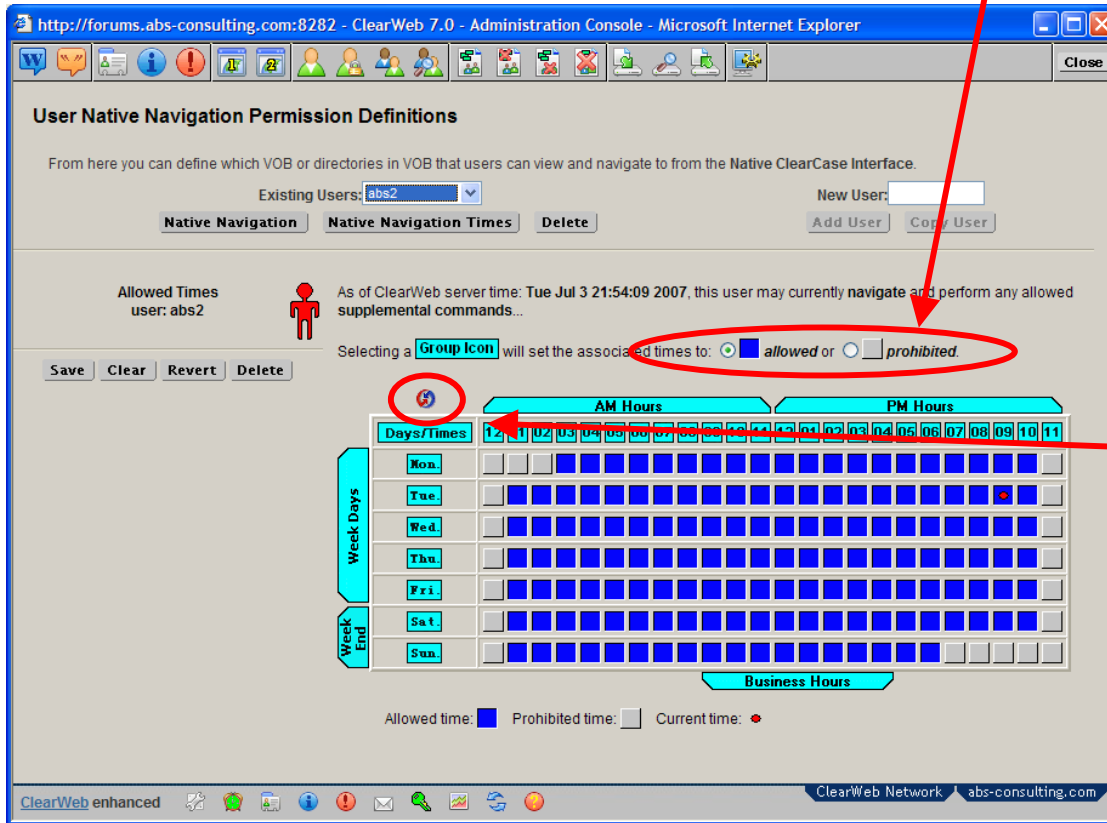



... select the appropriate user from the list of **Existing Users**...

...then select the **“Native Navigation Times”** button to change the allowed times that the selected user can navigate to Native Interface or perform Supplemental Commands...

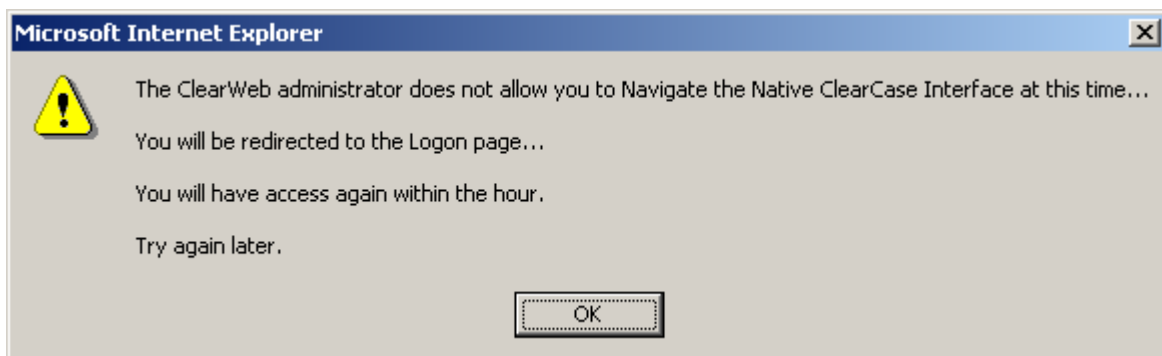
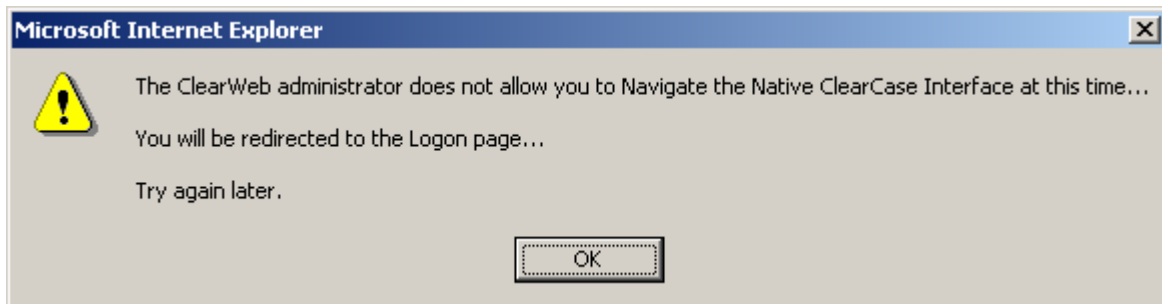
The ClearWeb Administrator can toggle time individually by selecting a single-selection time toggle boxes (  or  ) or select any of the pale blue  tabs or buttons to set or unset all of the associated times before selecting the Save button to save the times for the user.

When a pale blue  tab or button is selected it will either set or unselect the associated group depending on the current setting of the group icon designer's **Group Icon** radio value.




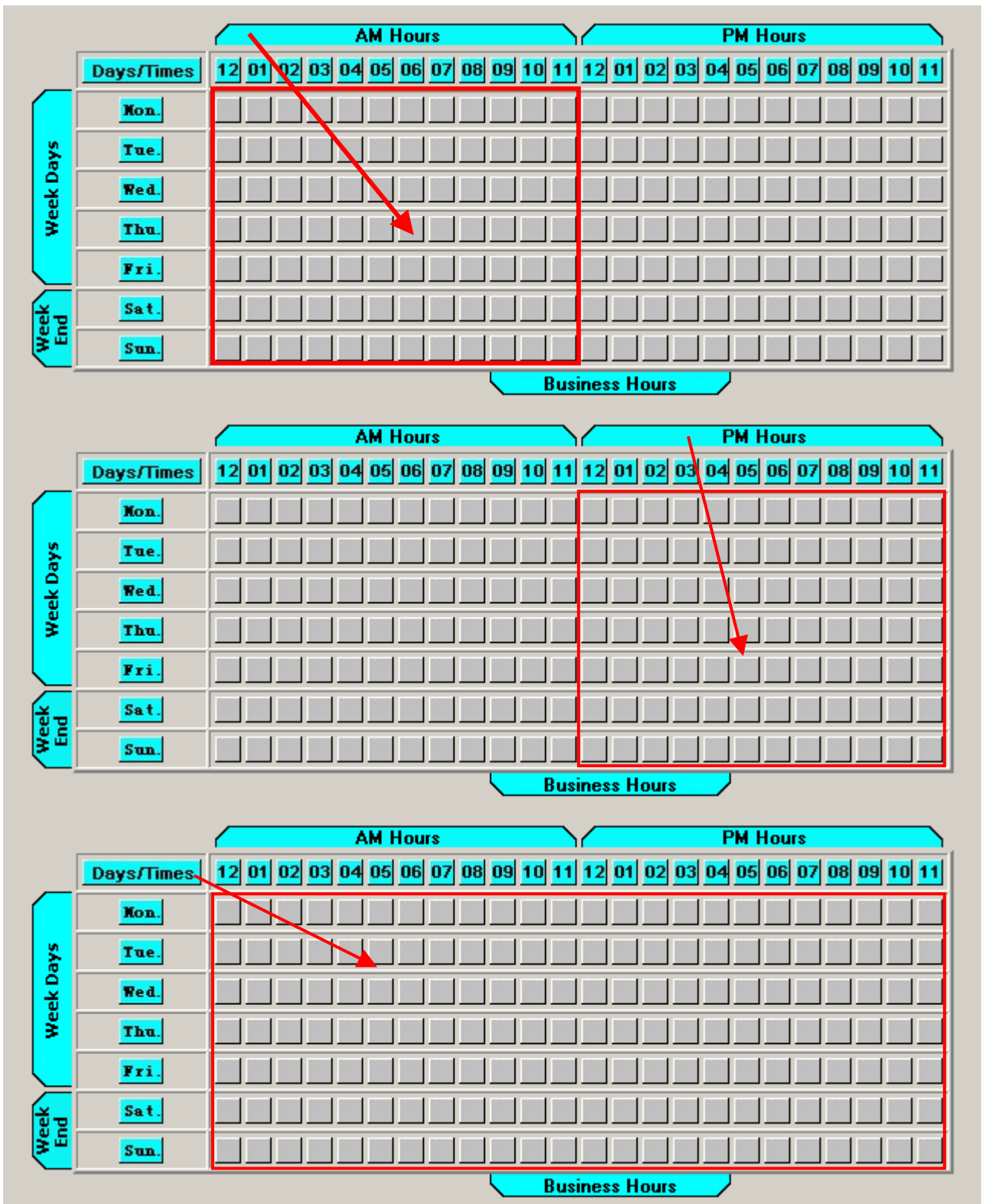
Selecting the reverse icon  will toggle all of the displayed times

When Web Users Attempt to navigate the Native ClearCase Interface they are shown one of the two dialogs below and then forcibly logged out of ClearCase Web.





Examples of the pale blue  tabs or buttons and what they affect are shown below:

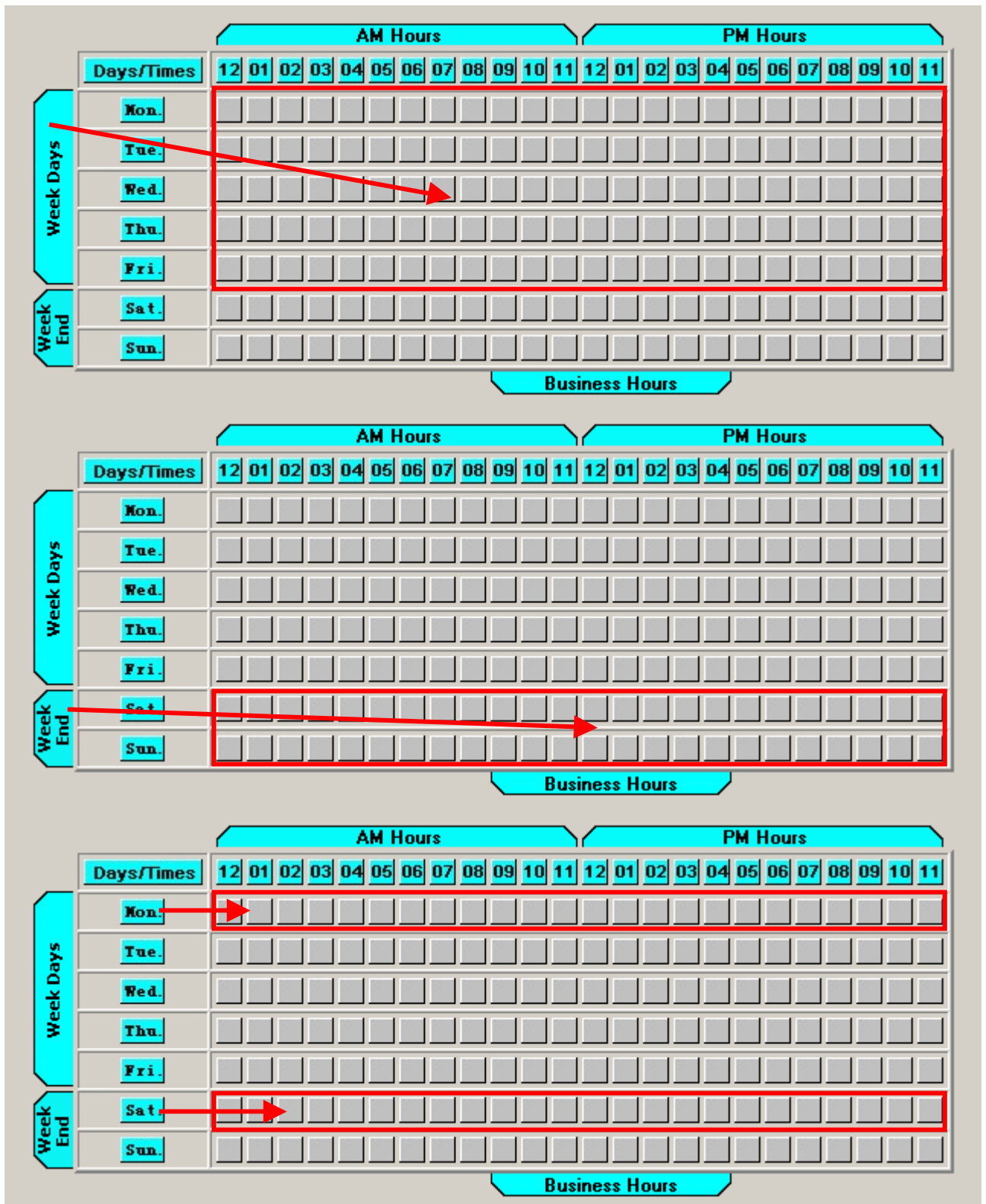


The figure displays three examples of the ClearWeb scheduling interface, each showing a grid of days and times (Days/Times) and a corresponding Business Hours grid. The tabs are labeled AM Hours and PM Hours. The Business Hours grid is divided into AM and PM sections. The examples illustrate how selecting different tabs affects the Business Hours grid.

**Example 1:** The AM Hours tab is selected. The Business Hours grid shows the AM section (12-11) highlighted in red, and the PM section (12-11) is grayed out. A red arrow points to the AM Hours tab.

**Example 2:** The PM Hours tab is selected. The Business Hours grid shows the PM section (12-11) highlighted in red, and the AM section (12-11) is grayed out. A red arrow points to the PM Hours tab.

**Example 3:** The AM Hours tab is selected. The Business Hours grid shows the AM section (12-11) highlighted in red, and the PM section (12-11) is grayed out. A red arrow points to the AM Hours tab.

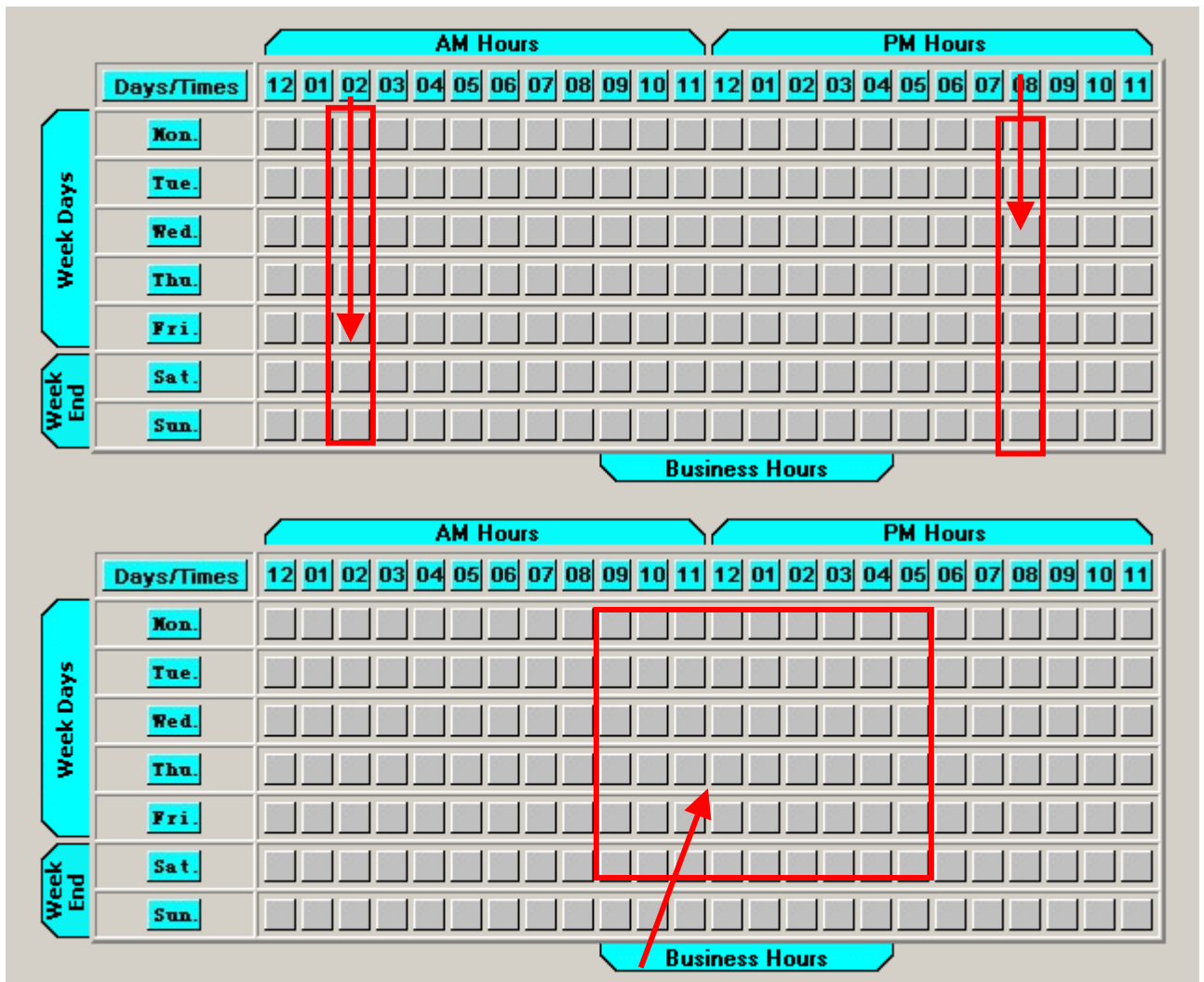


The figure displays three sequential screenshots of the 'Business Hours' configuration interface in ClearWeb. Each screenshot shows a table with columns for 'Days/Times' and 'Hours' (12, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11) for both AM and PM. The rows represent the days of the week (Mon., Tue., Wed., Thu., Fri., Sat., Sun.).

**Screenshot 1 (Top):** The 'Week Days' section (Mon. to Fri.) is highlighted with a red box. A red arrow points from the 'Mon.' row to the '07' hour slot in the AM column.

**Screenshot 2 (Middle):** The 'Week End' section (Sat. and Sun.) is highlighted with a red box. A red arrow points from the 'Sat.' row to the '07' hour slot in the AM column.

**Screenshot 3 (Bottom):** The 'Week Days' section (Mon. to Fri.) is highlighted with a red box. A red arrow points from the 'Mon.' row to the '07' hour slot in the AM column.



The image displays two screenshots of the ClearWeb Business Hours configuration interface. Both screenshots show a grid for configuring business hours across the days of the week (Monday through Sunday) and the hours of the day (12 to 11 AM and 12 to 11 PM).



**Top Screenshot:** The interface is divided into 'Week Days' and 'Week End' sections. The 'Week Days' section includes rows for Mon., Tue., Wed., Thu., and Fri. The 'Week End' section includes rows for Sat. and Sun. The columns are labeled 'Days/Times' and 'AM Hours' (12 to 11) and 'PM Hours' (12 to 11). Red boxes highlight the AM and PM hour columns, and red arrows point to the 02 and 08 hour slots.

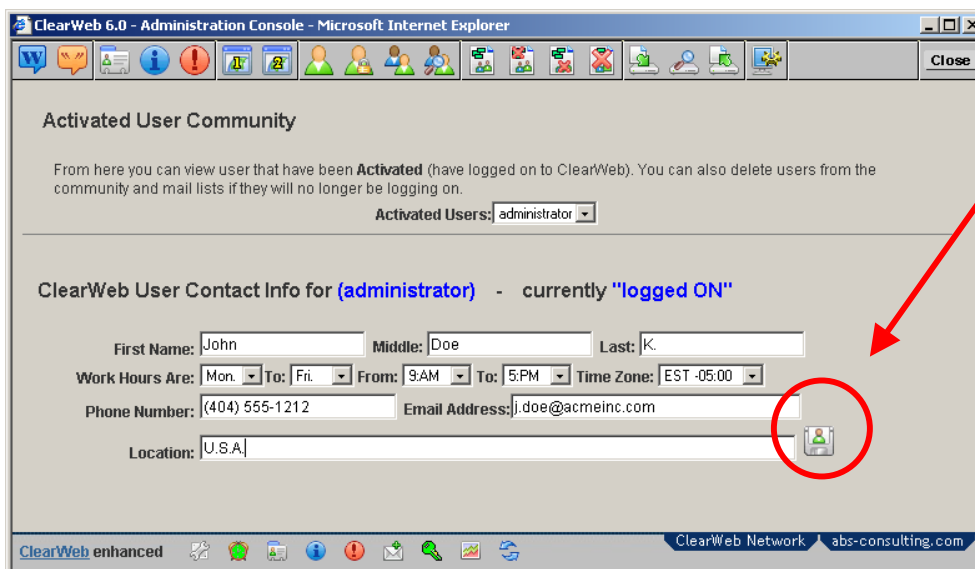
**Bottom Screenshot:** The interface is similar to the top one, but a red box highlights the entire AM and PM hour grid, and a red arrow points to the 08 hour slot.

**NOTE:** All times are calculated base on the ClearCase Web Server Time.

## Viewing/Changing the User Community

The administrator can view the contact information for members of their current ClearWeb Community from the ClearWeb Administration Console. Members are automatically added to the community when they log first log on to ClearWeb. When users are added to the community they are given a mailbox and show up in email list in the Email Application and other user list in various ClearWeb applications and toolbars.

To view or delete a user from the Community, the ClearWeb Administrator can open the [ClearWeb Administration Console](#)  from the ClearWeb Toolbar and then select the  icon in the toolbar in the ClearWeb Administration Console...



ClearWeb 6.0 - Administration Console - Microsoft Internet Explorer

Activated User Community

From here you can view user that have been **Activated** (have logged on to ClearWeb). You can also delete users from the community and mail lists if they will no longer be logging on.

Activated Users: administrator

ClearWeb User Contact Info for (administrator) - currently "logged ON"

First Name: John Middle: Doe Last: K.

Work Hours Are: Mon. To: Fri. From: 9:AM To: 5:PM Time Zone: EST -05:00

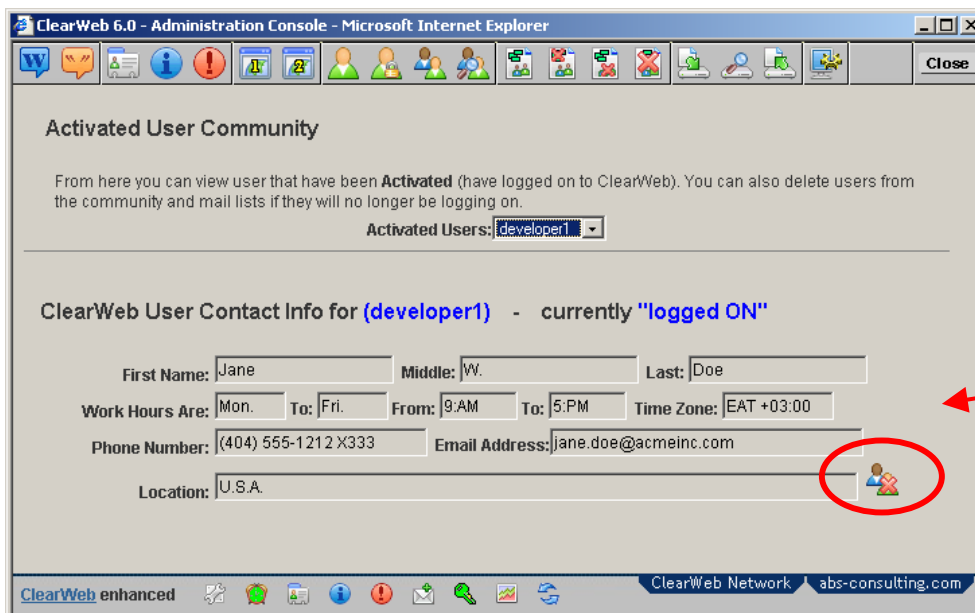
Phone Number: (404) 555-1212 Email Address: j.doe@acmeinc.com

Location: U.S.A.

ClearWeb enhanced ClearWeb Network abs-consulting.com

The ClearWeb Administrator can update their own contact information and then save their ClearWeb contact information.

OR...



ClearWeb 6.0 - Administration Console - Microsoft Internet Explorer

Activated User Community

From here you can view user that have been **Activated** (have logged on to ClearWeb). You can also delete users from the community and mail lists if they will no longer be logging on.

Activated Users: developer1

ClearWeb User Contact Info for (developer1) - currently "logged ON"

First Name: Jane Middle: W. Last: Doe

Work Hours Are: Mon. To: Fri. From: 9:AM To: 5:PM Time Zone: EAT +03:00

Phone Number: (404) 555-1212 X333 Email Address: jane.doe@acmeinc.com

Location: U.S.A.



ClearWeb enhanced ClearWeb Network abs-consulting.com

The ClearWeb Administrator can view another users contact information. The administrator can delete the user from the community (remove their mailboxes and remove them from mail list) when a user is no longer expected to login in the future.

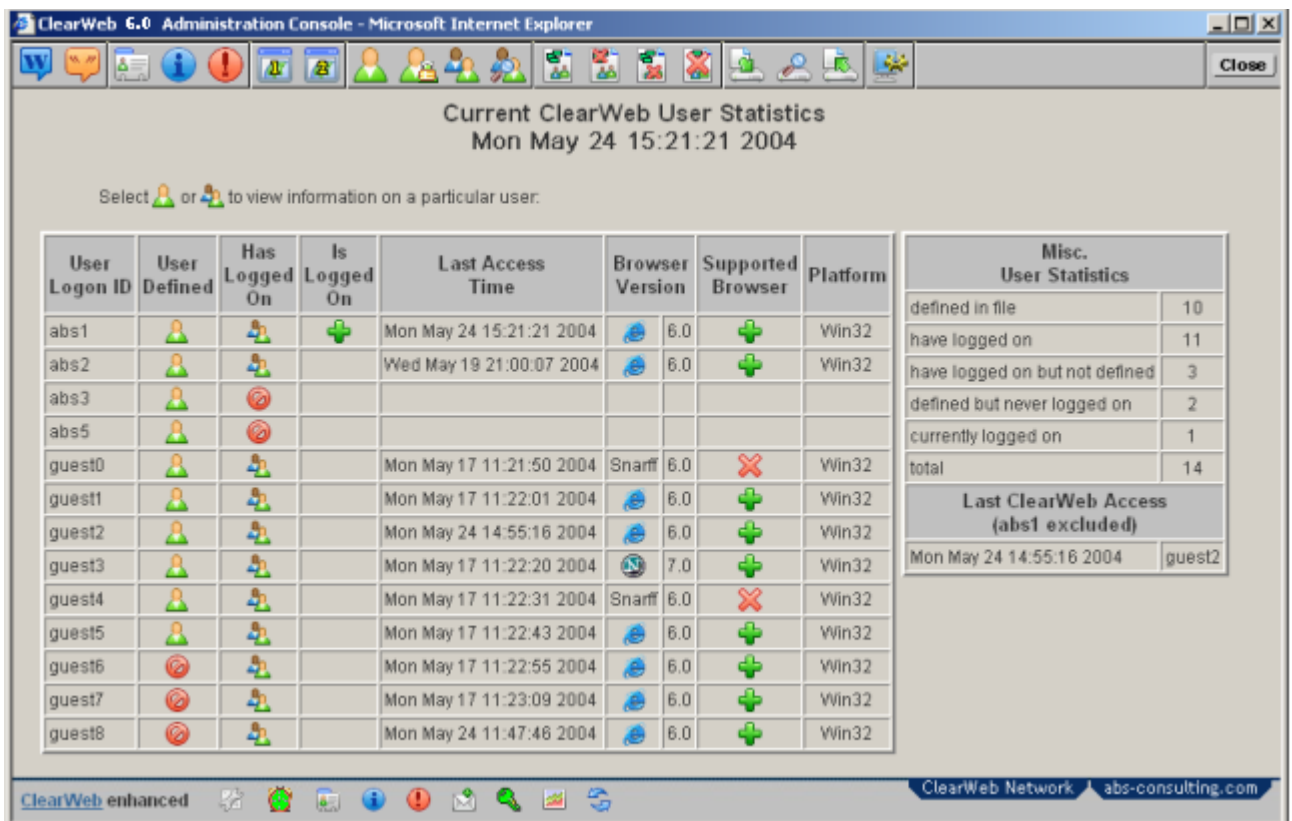
**Note:** The **logged ON/OFF** state is accurate within and updated every 30 seconds.

## Viewing ClearWeb User Statistics



The administrator can view ClearWeb User Statistics for their installation from the ClearWeb Administration Console. The Users considered are the union of Community Members (users that have logged on) and Users that the ClearWeb Administrator has added through the ClearWeb Admin Console to the [clearweb\\_config.txt](#).







































To view the **ClearWeb User Statistics**, the ClearWeb Administrator can open the [ClearWeb Administration Console](#)  from the ClearWeb Toolbar and then select the  icon in the toolbar in the ClearWeb Administration Console.

The ClearWeb User Statistics window shows a collection of read only data on each of the known users.




























Current ClearWeb User Statistics  
Mon May 24 15:21:21 2004

Select  or  to view information on a particular user.



User Logon ID	User Defined	Has Logged On	Is Logged On	Last Access Time	Browser Version	Supported Browser	Platform
abs1				Mon May 24 15:21:21 2004	6.0		Win32
abs2				Wed May 19 21:00:07 2004	6.0		Win32
abs3							
abs5							
guest0				Mon May 17 11:21:50 2004	Snarff 6.0		Win32
guest1				Mon May 17 11:22:01 2004	6.0		Win32
guest2				Mon May 24 14:55:16 2004	6.0		Win32
guest3				Mon May 17 11:22:20 2004	7.0		Win32
guest4				Mon May 17 11:22:31 2004	Snarff 6.0		Win32
guest5				Mon May 17 11:22:43 2004	6.0		Win32
guest6				Mon May 17 11:22:55 2004	6.0		Win32
guest7				Mon May 17 11:23:09 2004	6.0		Win32
guest8				Mon May 24 11:47:46 2004	6.0		Win32

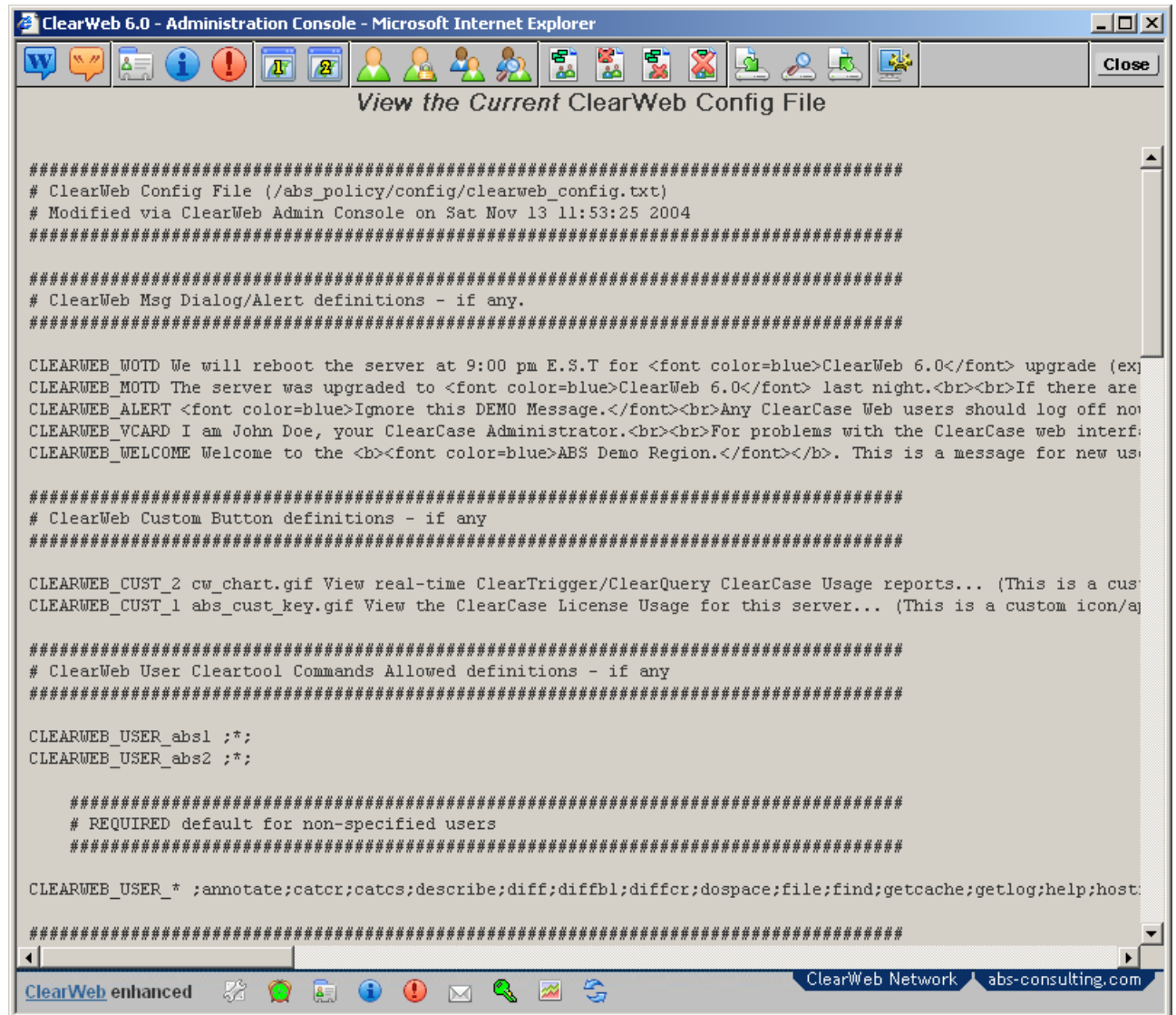
Misc. User Statistics	
defined in file	10
have logged on	11
have logged on but not defined	3
defined but never logged on	2
currently logged on	1
total	14

Last ClearWeb Access (abs1 excluded)	
Mon May 24 14:55:16 2004	guest2

ClearWeb enhanced                           


## View Current ClearWeb Config. File


The administrator can view the current **ClearWeb User Configuration File** from the ClearWeb Administration Console. To view the **ClearWeb User Configuration File**, the ClearWeb Administrator can open the [ClearWeb Administration Console](#)  from the ClearWeb Toolbar and then select the  icon in the toolbar in the ClearWeb Administration Console.



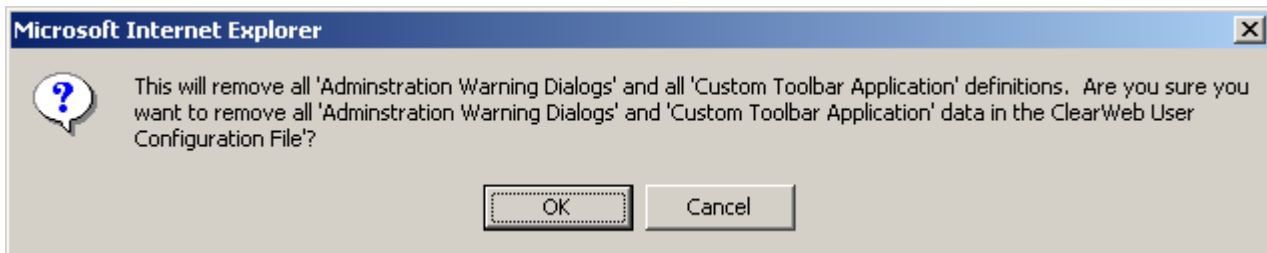


## Remove ALL Dialog Definitions from ClearWeb Config. File

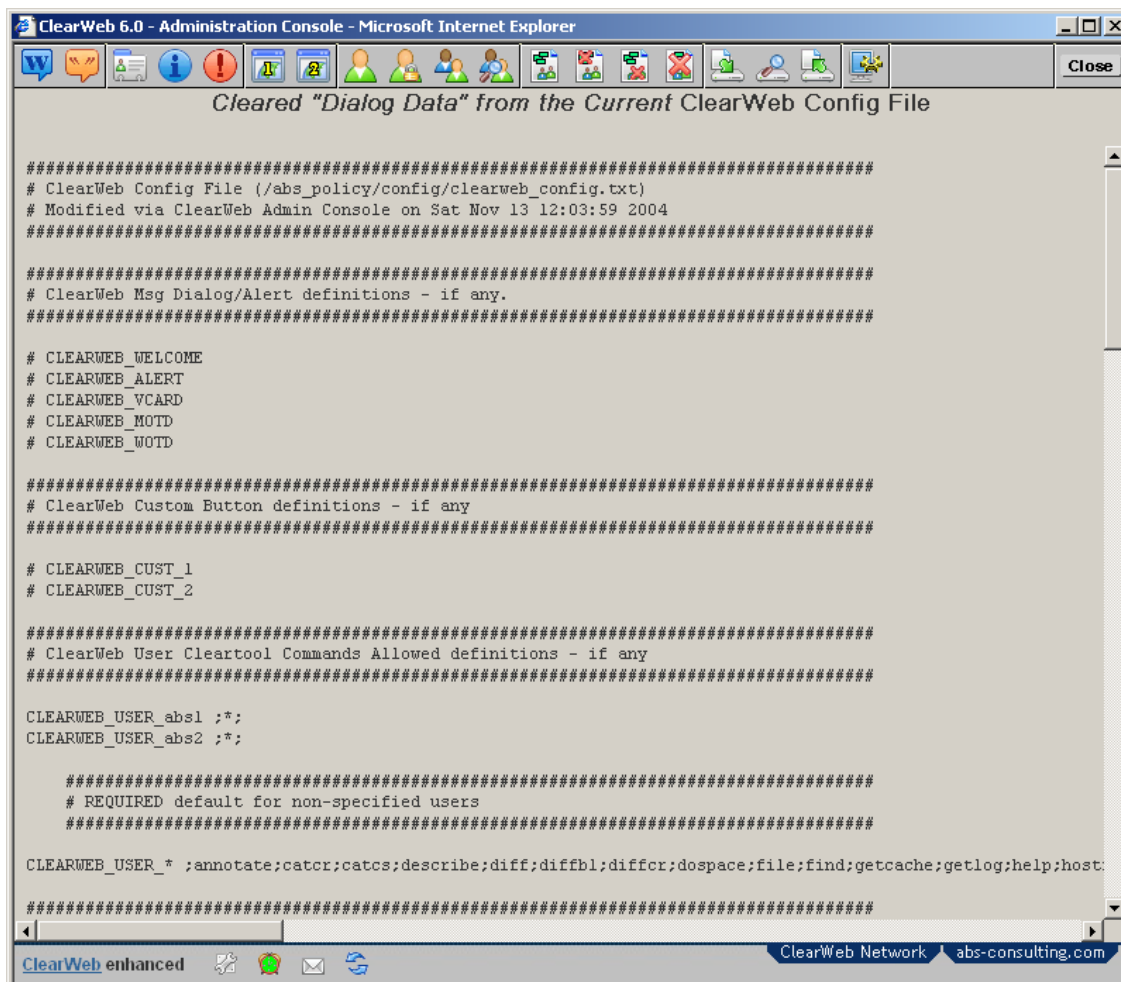
The administrator can remove all **Dialog Definitions** and **Custom Application Link Definitions** from the current **ClearWeb User Configuration File** from the ClearWeb Administration Console. To remove all Dialog Definitions and view the resulting current **ClearWeb User Configuration File**, the ClearWeb Administrator can open the [ClearWeb Administration Console](#)  from the ClearWeb

Toolbar and then select the  icon in the toolbar in the ClearWeb Administration Console.



The Administrator will have to confirm in order to perform the data deletion.



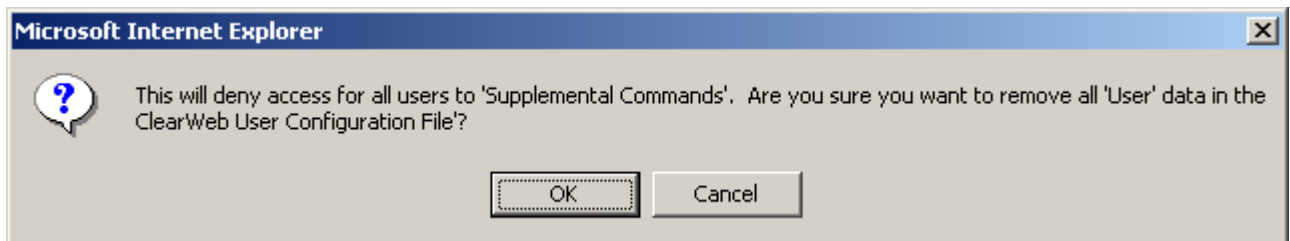
If the Administrator confirms (selects OK) then ALL Dialog Data and Custom Toolbar Data Definitions are removed from the [clearweb\\_config.txt](#) file; the User Data remains unchanged in the [clearweb\\_config.txt](#) file. The resulting file is then displayed.



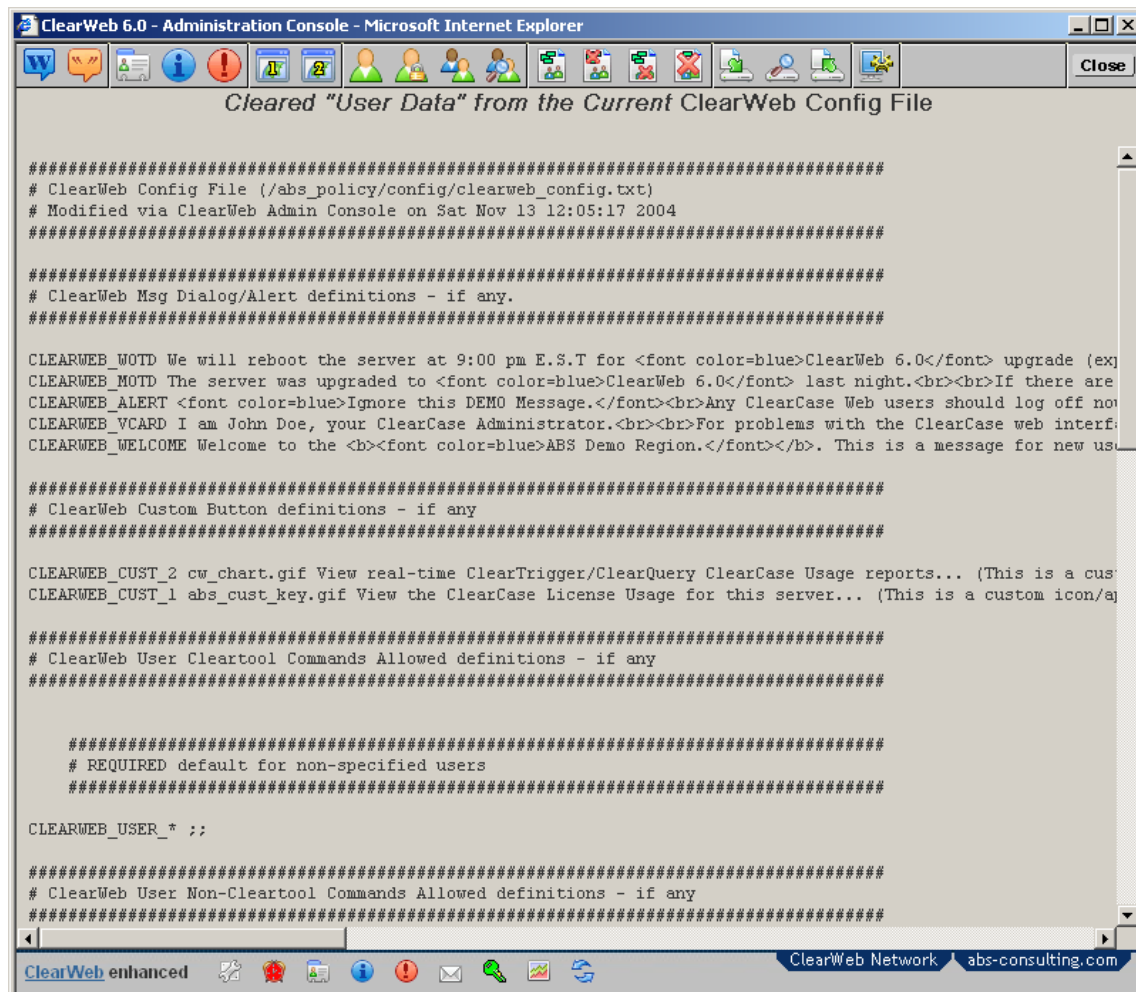
## Remove ALL User Data Definitions from ClearWeb Config. File

The administrator can remove all **User Data Definitions** (ClearTool Command Definitions, Non-ClearTool Command Definition and Working Directory Definitions) from the current **ClearWeb User Configuration File** from the ClearWeb Administration Console. To remove all User Data Definitions and view the resulting current **ClearWeb User Configuration File**, the ClearWeb Administrator can open the [ClearWeb Administration Console](#)  from the ClearWeb Toolbar and then select the  icon in the toolbar in the ClearWeb Administration Console.

The Administrator will have to confirm in order to perform the data deletion.





the Administrator confirms (selects OK) then ALL User Data Definitions are removed from the [clearweb\\_config.txt](#) file; the **Dialog Definitions** and **Custom Application Link Definitions** remains unchanged in the [clearweb\\_config.txt](#) file. The resulting file is then displayed.

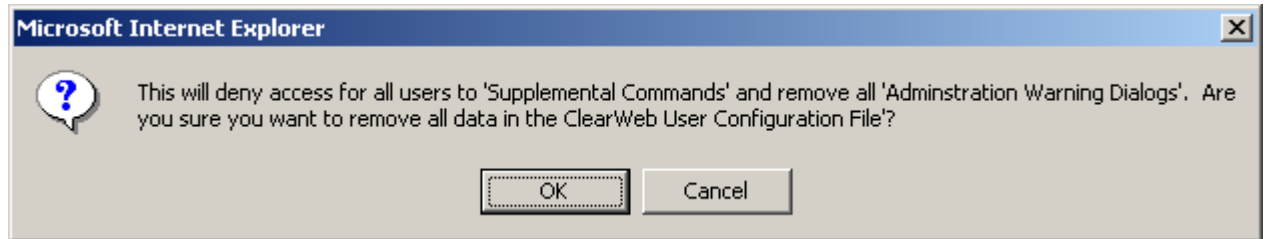




## Remove ALL Data Definitions from ClearWeb Config. File

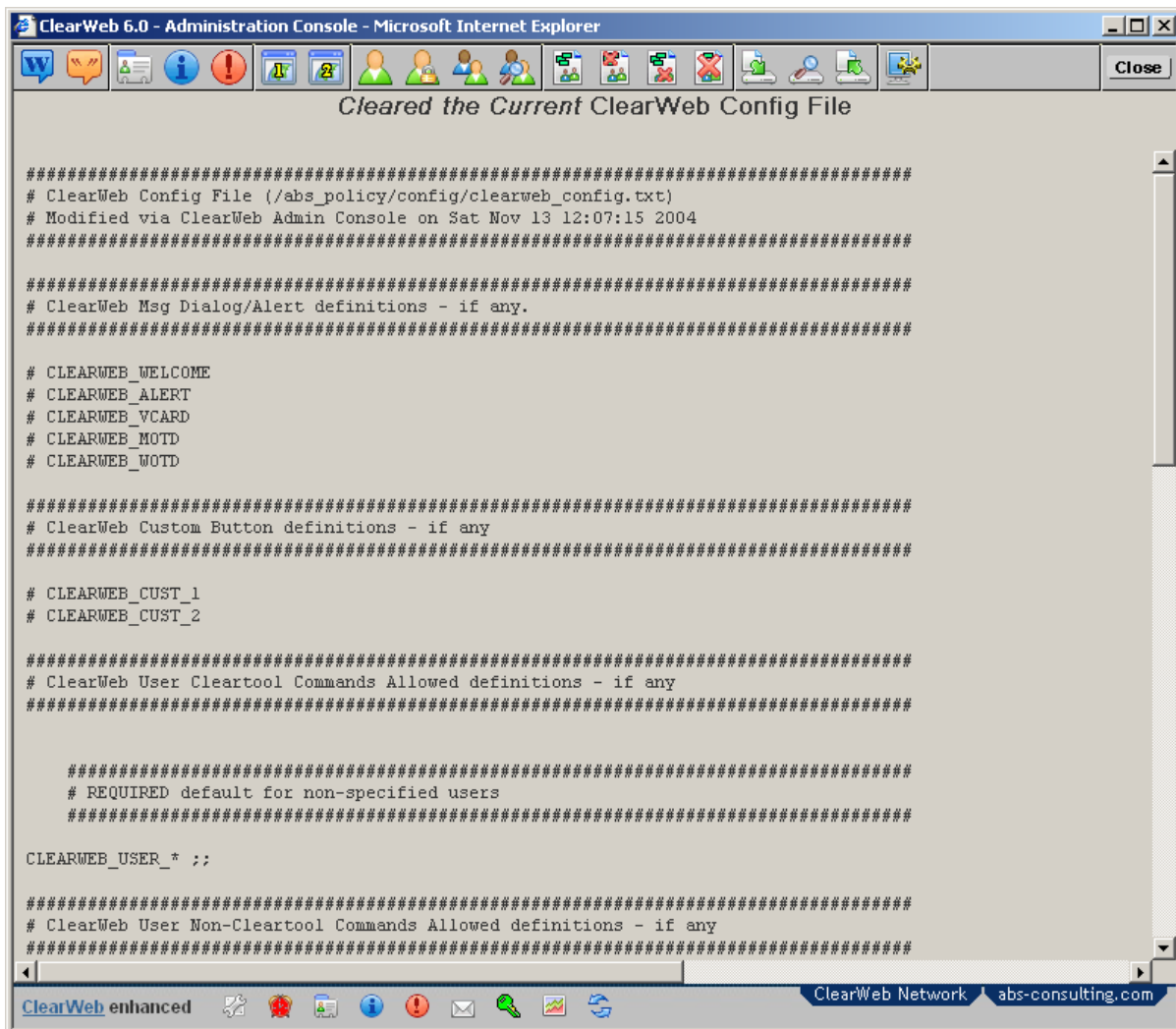
The administrator can remove all **User Data Definitions** (ClearTool Command Definitions, Non-ClearTool Command Definitions and Working Directory Definitions) from the current **ClearWeb User Configuration File** from the ClearWeb Administration Console. To remove all User Data Definitions and view the resulting current **ClearWeb User Configuration File**, the ClearWeb Administrator can open the [ClearWeb Administration Console](#)  from the ClearWeb Toolbar and then select the  icon in the toolbar in the ClearWeb Administration Console.

The Administrator will have to confirm in order to perform the data deletion.





If

the Administrator confirms (selects OK) then ALL Data Definitions are removed from the [clearweb\\_config.txt](#) file. The resulting file is then displayed.

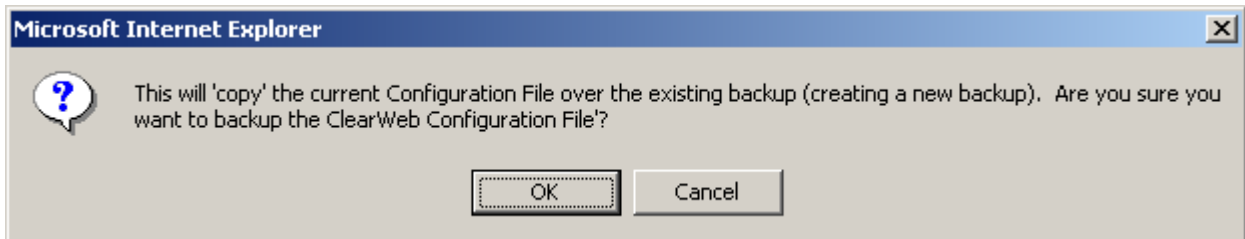


Make  
a

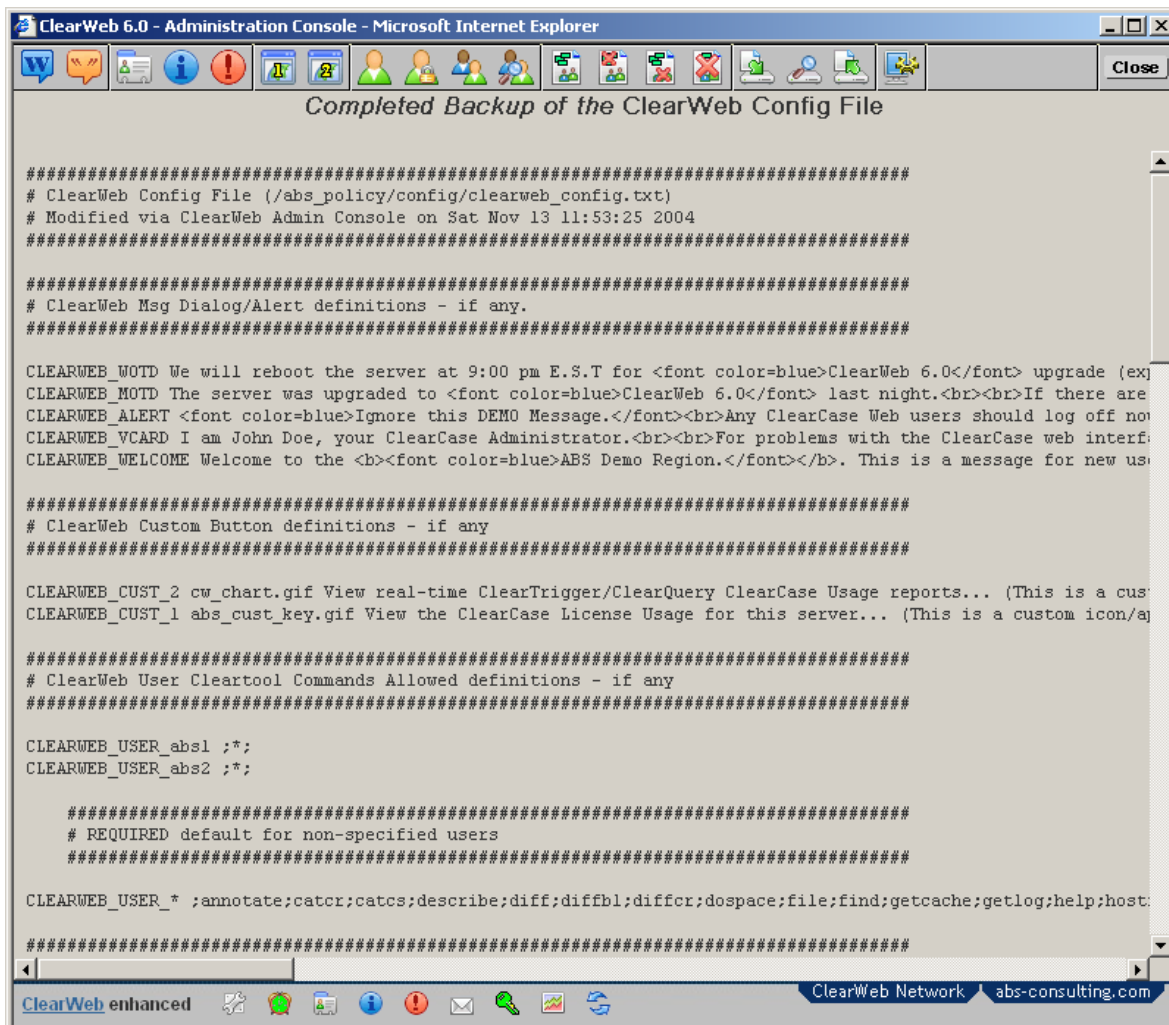
## Backup of the ClearWeb Config. File

The administrator can quickly create a backup of the Current **ClearWeb Configuration File** from the ClearWeb Administration Console. To make a backup of the ClearWeb Configuration File and view the resulting backup, the ClearWeb Administrator can open the [ClearWeb Administration Console](#)  from the ClearWeb Toolbar and then select the  icon in the toolbar in the ClearWeb Administration Console.



The Administrator will have to confirm in order to perform the backup.

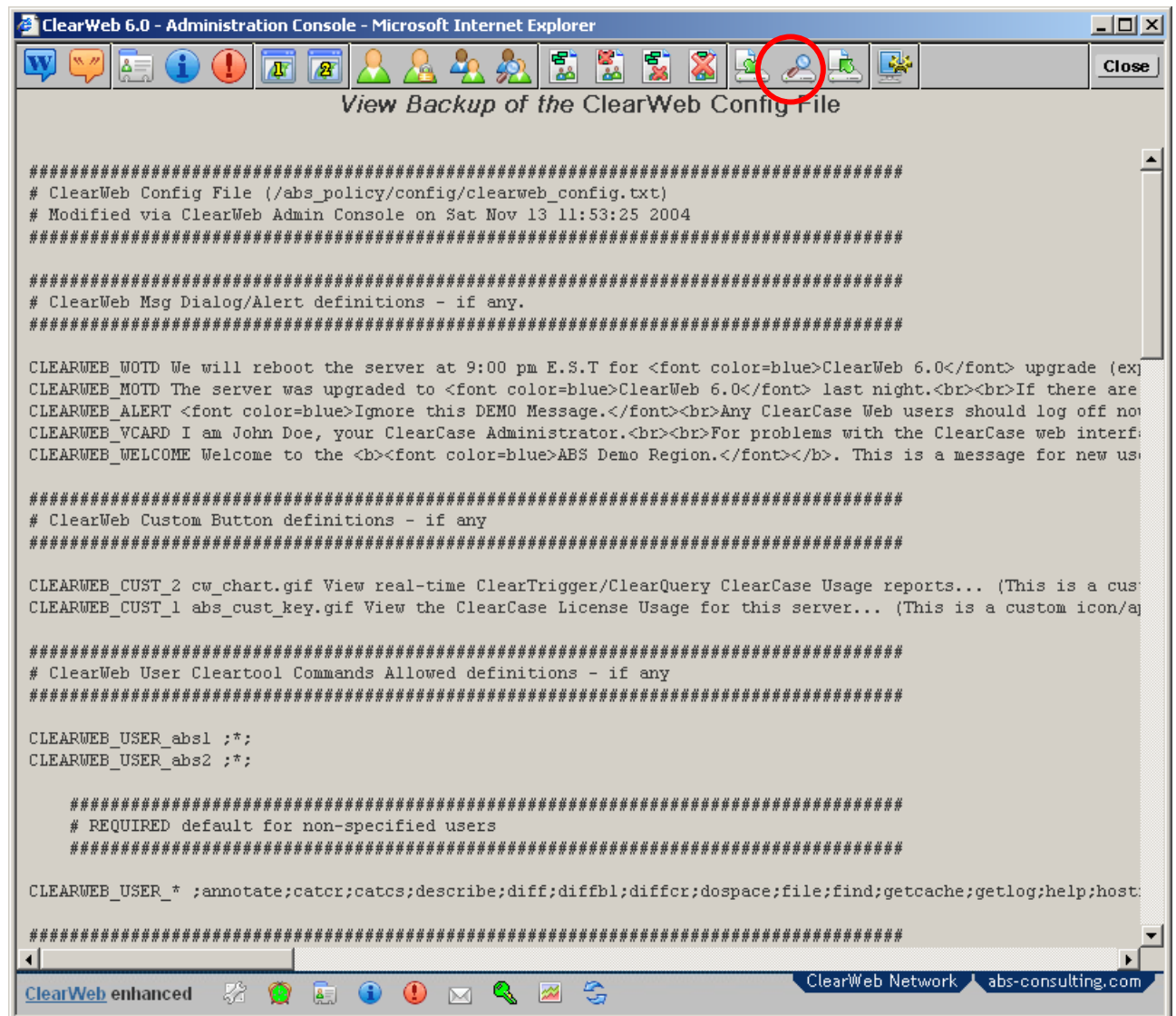


If the Administrator confirms (selects OK) then a backup copy of the [clearweb\\_config.txt](#) file is created called **clearweb\_config.txt.bup** in the same parent directory as the original clearweb\_cnfig.txt file. The resulting backup file is then displayed.





## View Backup of the ClearWeb Config. File

The administrator can view the backup of the **ClearWeb Configuration File** from the ClearWeb Administration Console. To view the backup of the ClearWeb Configuration, the ClearWeb Administrator can open the [ClearWeb Administration Console](#)  from the ClearWeb Toolbar and then select the  icon in the toolbar in the ClearWeb Administration Console.

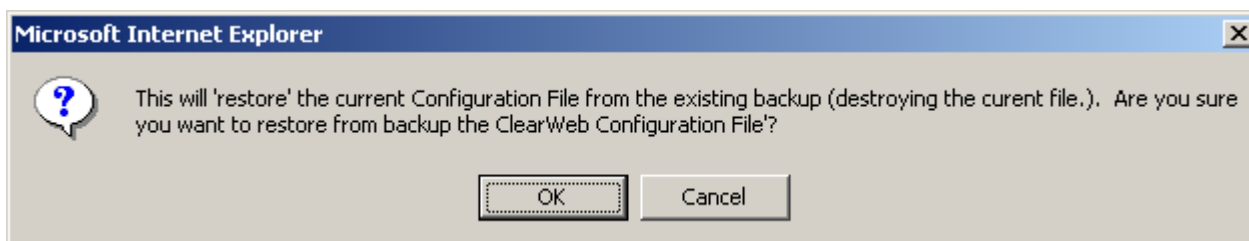


## Restore the ClearWeb Config. File from backup

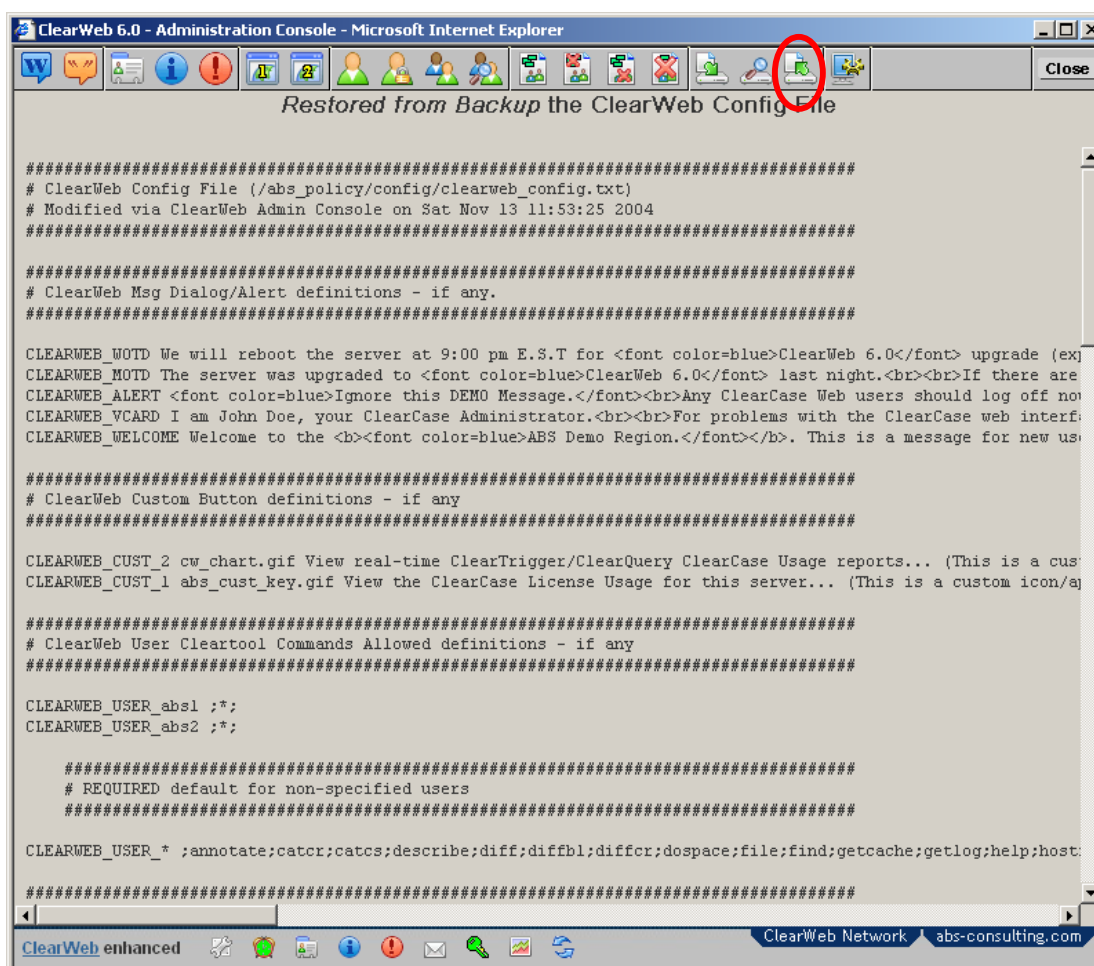
The administrator can quickly restore the **ClearWeb Configuration File** from its backup file via the ClearWeb Administration Console. To restore from the backup and view the resulting current file, the ClearWeb Administrator can open the [ClearWeb Administration Console](#)  from the ClearWeb Toolbar and then select the  icon in the toolbar in the ClearWeb Administration Console.

The Administrator will have to confirm in order to restore from the backup.


If the

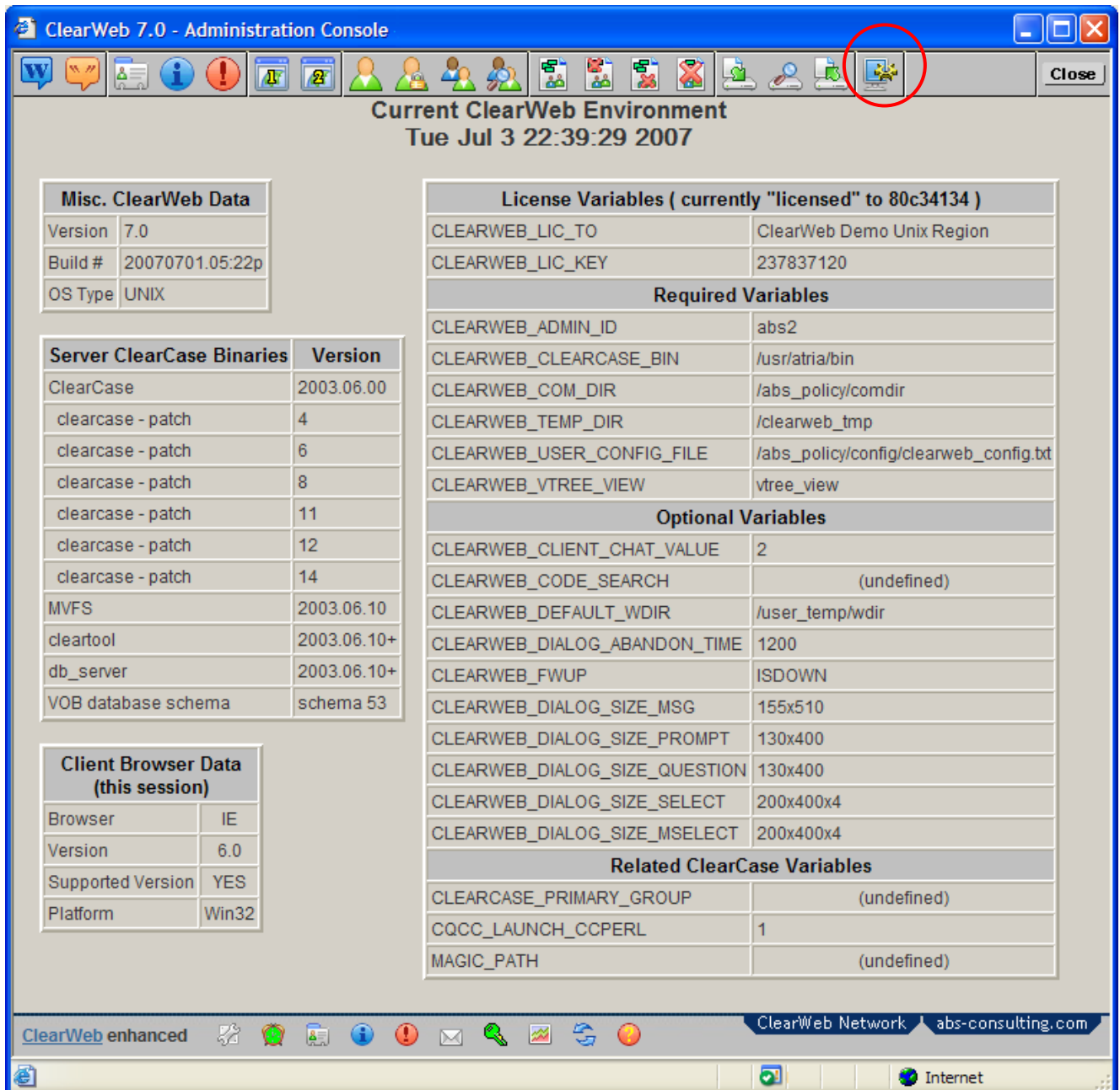


Administrator confirms (selects OK) then the backup file **clearweb\_config.txt.bup** is copied over the current live file **clearweb\_config.txt**. The resulting new live clearweb\_config.txt file is then displayed.



## View Current ClearWeb Configuration and Environment

The administrator can view many of the critical details of the ClearWeb Installation in one location. This is helpful when confirming you installation at runtime and useful information to have handy when contacting the ABS for support. To view these settings and environmental variables for your ClearWeb Installation, the ClearWeb Administrator can open the [ClearWeb Administration Console](#) from the ClearWeb Toolbar and then select the  icon in the toolbar in the ClearWeb Administration Console.



**ClearWeb 7.0 - Administration Console**

Current ClearWeb Environment  
Tue Jul 3 22:39:29 2007

Misc. ClearWeb Data	
Version	7.0
Build #	20070701.05:22p
OS Type	UNIX

Server ClearCase Binaries	Version
ClearCase	2003.06.00
clearcase - patch	4
clearcase - patch	6
clearcase - patch	8
clearcase - patch	11
clearcase - patch	12
clearcase - patch	14
MVFS	2003.06.10
cleartool	2003.06.10+
db_server	2003.06.10+
VOB database schema	schema 53


Client Browser Data (this session)	
Browser	IE
Version	6.0
Supported Version	YES
Platform	Win32

License Variables ( currently "licensed" to 80c34134 )	
CLEARWEB_LIC_TO	ClearWeb Demo Unix Region
CLEARWEB_LIC_KEY	237837120

Required Variables	
CLEARWEB_ADMIN_ID	abs2
CLEARWEB_CLEARCASE_BIN	/usr/atria/bin
CLEARWEB_COM_DIR	/abs_policy/comdir
CLEARWEB_TEMP_DIR	/clearweb_tmp
CLEARWEB_USER_CONFIG_FILE	/abs_policy/config/clearweb_config.txt
CLEARWEB_VTREE_VIEW	vtree_view

Optional Variables	
CLEARWEB_CLIENT_CHAT_VALUE	2
CLEARWEB_CODE_SEARCH	(undefined)
CLEARWEB_DEFAULT_WDIR	/user_temp/wdir
CLEARWEB_DIALOG_ABANDON_TIME	1200
CLEARWEB_FWUP	ISDOWN
CLEARWEB_DIALOG_SIZE_MSG	155x510
CLEARWEB_DIALOG_SIZE_PROMPT	130x400
CLEARWEB_DIALOG_SIZE_QUESTION	130x400
CLEARWEB_DIALOG_SIZE_SELECT	200x400x4
CLEARWEB_DIALOG_SIZE_MSELECT	200x400x4

Related ClearCase Variables	
CLEARCASE_PRIMARY_GROUP	(undefined)
CQCC_LAUNCH_CCPerl	1
MAGIC_PATH	(undefined)

ClearWeb enhanced  ClearWeb Network abs-consulting.com

Internet







## Clearweb\_config.txt

The clearweb\_config.txt file defines the web user/supplemental command matrix for ClearWeb as well as the allowed user/working directory matrix for ClearWeb users. The definitions for VCARD, MOTD and WOTD are also defined here. The file must be accessible from the web-server, readable by all users and writable by those that will be allowed to change the file.

The file can be changed manually, but it is recommended the one use the ClearWeb Administrator Console to modify this file.

An empty (minimal required data and sparsely commented) clearweb\_config.txt file is distributed with ClearWeb. If you are upgrading from an earlier version of ClearWeb then ClearWeb will upgrade you existing file to the current format the first time the ClearWeb Administrator ([CLEARWEB\\_ADMIN\\_ID](#)) logs on to ClearWeb.

The items in the file are:

- [VCARD definition](#)
- [MOTD definition](#)
- [WOTD definition](#)
- [cleartool command key definitions](#)
- [non-cleartool command key definitions](#)
- [WDIR definitions](#)
- [Native User VOB/Directory Navigation Definitions](#)
- [Time User Navigation Definitions](#)
- [End-User Custom Links](#)

An example (empty) file is included on the next page:



```
#####
# ClearWeb Config File (/abs_policy/config/clearweb_config.txt)
# Modified via ClearWeb Admin Console on Sat Nov 13 12:21:23 2004
#####

#####
# ClearWeb Msg Dialog/Alert definitions - if any.
#####

# CLEARWEB_WELCOME
# CLEARWEB_ALERT
# CLEARWEB_VCARD
# CLEARWEB_MOTD
# CLEARWEB_WOTD

#####
# ClearWeb Custom Button definitions - if any
#####

# CLEARWEB_CUST_1
# CLEARWEB_CUST_2

#####
# ClearWeb User Cleartool Commands Allowed definitions - if any
#####

#####
# REQUIRED default for non-specified users
#####

CLEARWEB_USER_* ;;

#####
# ClearWeb User Non-Cleartool Commands Allowed definitions - if any
#####

#####
# REQUIRED default for non-specified users
#####

CLEARWEB_EXTRA_COMMANDS_USER_* ;;

#####
# ClearWeb User Working Directories Allowed definitions - if any
#####

#####
# REQUIRED default for non-specified users
#####

CLEARWEB_WDIR_* ;!*;

#####
# ClearWeb User Allowed VOB/Directory definitions - if any
#####

#####
# REQUIRED default for non-specified users
#####

CLEARWEB_AVOB_* ;!*;

#####
# ClearWeb User Allowed Navigation and Supplemental Command Time definitions - if any
#####

#####
# REQUIRED default for non-specified users
#####
```




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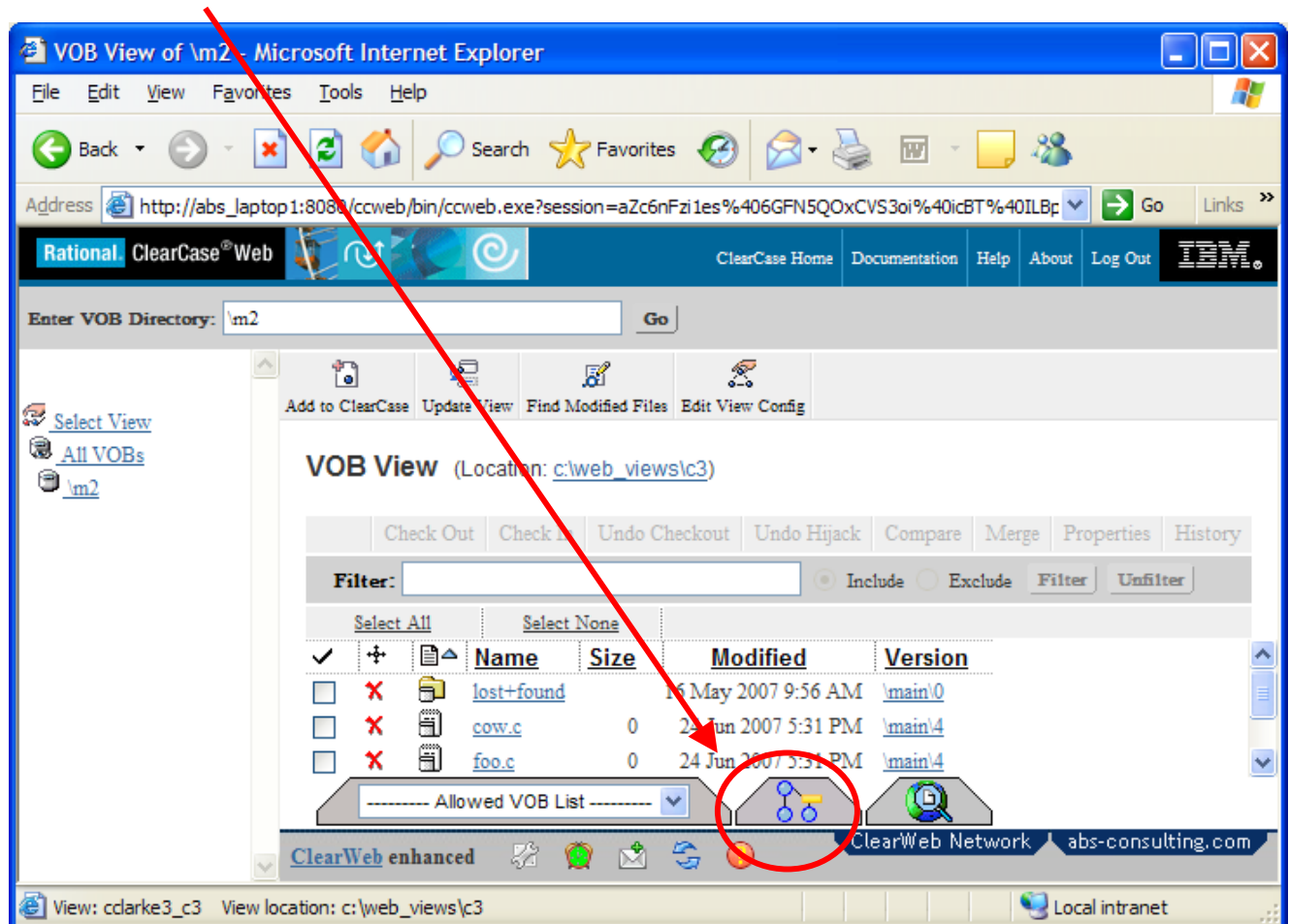
## Administration of Graphical Vtree Functionality

If ClearWeb was properly installed then a dedicated view was created that ClearWeb uses to gather Vtree information for all Vtree display request. The view should adhere to these two requirements:

- 1) The view must be accessible from the ClearCase Web server
- 2) It should have open permissions such that user id can edit the view's Config. Spec.

So if properly installed, the only task the ClearWeb Administrator should perform to maintain the Graphical Web Vtree functionality is to NOT remove this view. From the integration is enabled the **Vtree**

**Application Tab**  is displayed on ClearCase Web Browse pages that are associated with directory locations *within* VOBs. Users can select the Vtree Application Tab to open the **Vtree Browser Application**. The Vtree Browser Application allows for your users to view Vtree Browsers over the web.




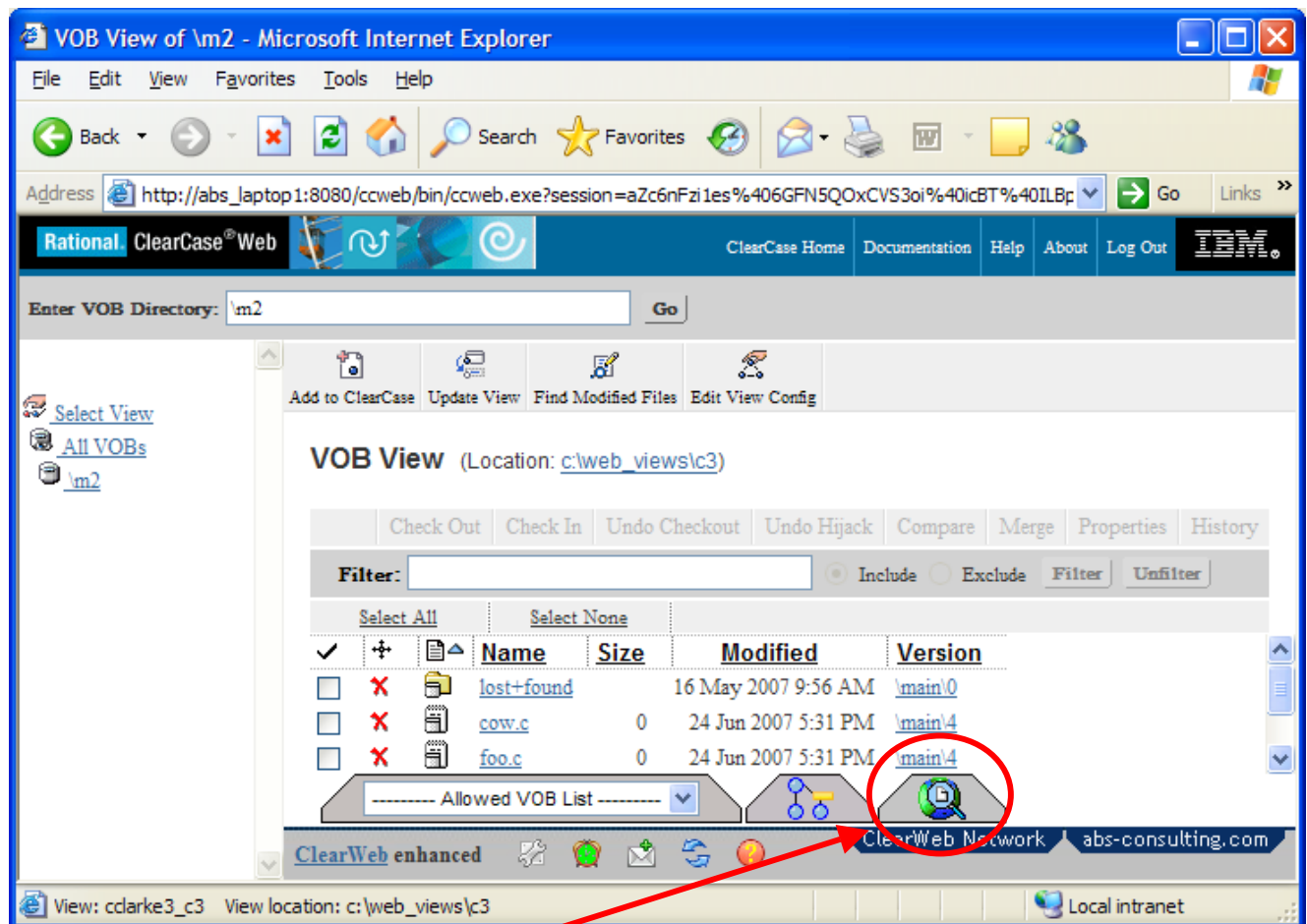
The ClearWeb Installer must set the **CLEARWEB\_VTREE\_VIEW** environmental variable to the name of the ClearWeb dedicated view that satisfied the two requirement above.

**For more information on setting environmental variables refer to the ClearWeb Installation Guide.**

## Enabling/Disabling the Code Search Application Integration

By default the Code Search Integration is enabled on the ClearWeb enhanced ClearCase Web interface.

When the integration is enabled the **Code Search Tab**  is displayed on ClearCase Web Browse pages. Users can select the Code Search Tab to open the **Code Search Application**. The Code Search Application allows for your users to search the internet for Open Source code that might already satisfy a requirement for code that they were going to develop.

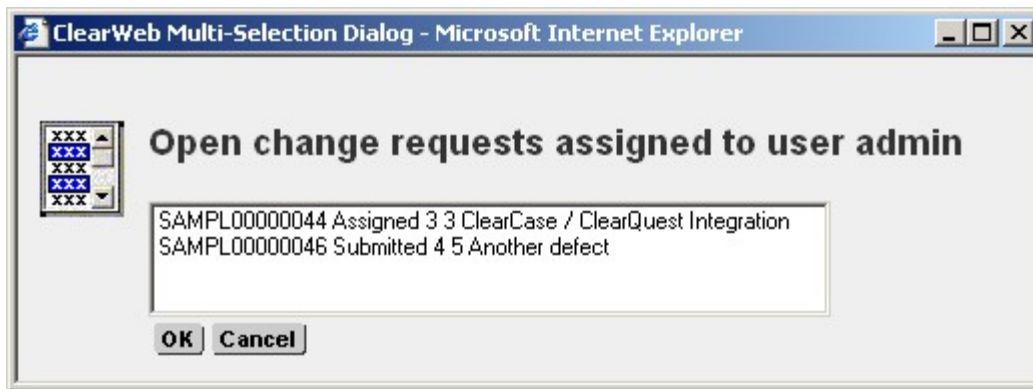


Selecting the **Code Search Tab** opens the Code Search Application that is hosted at the ABS website ,so this requires that you allow proper navigation permissions from the interface. By default this integration is enabled but, it can be disabled by either of two methods. The ClearWeb Administrator can set the **CLEARWEB\_CODE\_SEARCH** environmental variable to “**DISABLED**” which will hide this specific feature from the user interface or set **CLEARWEB\_FWUP** equal to “**ISUP**” which will hide all ClearWeb features that require outside access.

**For more information on setting environmental variables refer to the ClearWeb Installation Guide.**

## Enabling the ClearCase/ClearQuest integration for web use

ClearWeb allow the classic ClearCase/ClearQuest interface (V2.0) to work over the web. Now your web users have the same access to the ClearQuest Defect tracking data as local ClearCase users do and are properly prompted for defect numbers over the web.



To modify the integration so it is web-enabled follow these steps:

After installing the “integration” component then make sure that all local clients have **clearweb\_dialog** (UNIX users) or **clearweb\_dialog.exe** (Windows users) in their local PATH.

- ❖ **Install the “integration” component as instructed in the ClearWeb Installation Guide**
- ❖ **Ensure that clearweb\_dialog (Unix) or clearweb\_dialog.exe (Windows) is in the Web-Server process’s PATH:**  
Make sure clearweb\_dialog (or clearweb\_dialog.exe) is in the path of the environment of the web-server process. Alternately you could place clearweb\_dialog.exe in the \$ATRIA\_HOME/bin directory (where clearprompt is located).
- ❖ **Ensure that clearweb\_dialog (Unix) or clearweb\_dialog.exe (Windows) is in the PATH for your local ClearCase users:**  
Alternately you could place clearweb\_dialog.exe in the \$ATRIA\_HOME/bin directory (where clearprompt is located).
- ❖ **Modify the CQCC triggers definitions:**  
For each VOB that has the ClearCase/ClearQuest integration that you want web-enabled, change the trigger definition so that the exec portion is prepended with clearweb\_out.exe. The clearweb.exe executable should be accessible from the web-server and to all ClearCase clients that might access that VOB. Either local copy can be created or network available locations can be used. **Only the OS in which the**

**Web-Server resides needs to be changed.** For example given the integration trigger below (“cq\_ci\_trigger”) that must be accessed through a Windows Web-Server:

```
trigger type "cq_ci_trigger"
08-Jun-03.12:48:52 by Administrator.None@abshome
"ClearQuest Integration"
owner: ABSHOME\Administrator
group: ABSHOME\None
all element trigger
pre-operation checkin
action: -execwin cqcc_launch.bat CQCC\config.pl -entitydef defect
action: -execunix cqcc_launch CQCC/config.pl -entitydef defect
```

should be redefined to resemble the one below:

```
trigger type "cq_ci_trigger"
08-Jun-03.12:48:52 by Administrator.None@abshome
"ClearQuest Integration"
owner: ABSHOME\Administrator
group: ABSHOME\None
all element trigger
pre-operation checkin
action: -execwin clearweb_out.exe cqcc_launch.bat CQCC\config.pl -entitydef defect
action: -execunix cqcc_launch CQCC/config.pl -entitydef defect
```

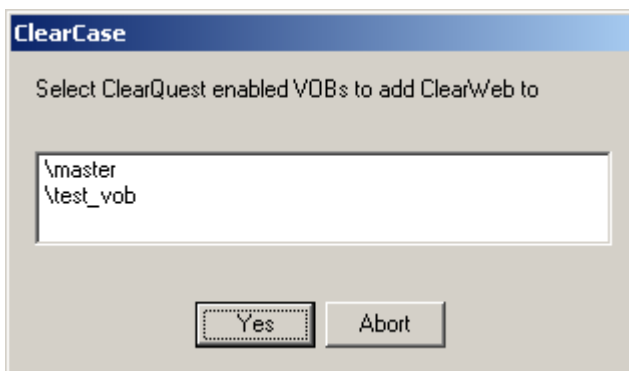
This modification should be done for all of the ClearCase/ClearQuest integration triggers:

- cq\_ci\_trigger
- cq\_co\_trigger
- cq\_postci\_trigge
- cq\_unco\_trigger

To make this modification easier, there is a Perl program (“**enable\_cqcw.pl**”) included in the distribution. There are four (4) lines in the file (Marked by the string “#SITE\_SPECIFIC #”) that might require site-specific modification, they determine how where clearweb\_dialog.exe (needed only for the script) and clearweb\_out.exe (needed for the trigger definitions) are located. **The value for CLEARWEB\_OUT should reflect a location that is accessible to all ClearCase Clients.** Refer to it's internal header.

```
$CLEARWEB_DIAOG = "clearweb_dialog.exe";
$CLEARWEB_OUT = "clearweb_out.exe";
```

```
# SITE_SPECIFIC #
# SITE_SPECIFIC #
```



Once modified if needed, execute the script **ccperl.exe enable\_cqcw.pl** (using any Perl interpreter) and it will provide a list of VOB that have the ClearCase/ClearQuest integration that are NOT Web-enabled.

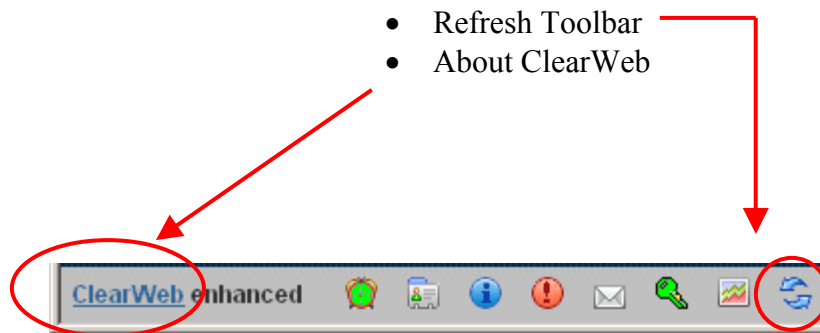
Just select the VOB(s) that should have the ClearCase/ClearQuest integration web-enabled and select Yes.

The VOB(s) will have any ClearCase/ClearQuest Integration triggers modified.

The ClearCase/ClearQuest integration is now web-enabled for the selected VOB(s).

## Misc. GUI Components

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



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 like to User Configurable Dialogs Defaults.

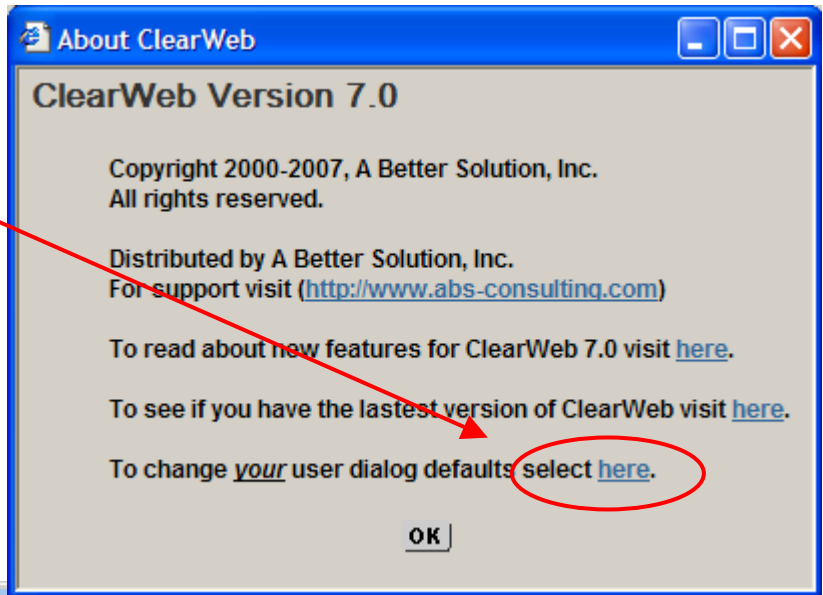


## User Configurable Dialog Defaults

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

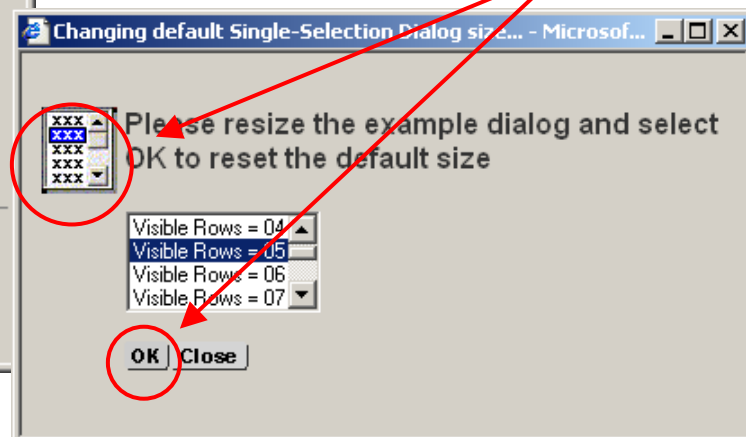
This will cause the current default sizes for each dialog type that the user can modify (Prompt Dialog, Question Dialog, Single-Select Dialog and Multi-Select Dialog) as depicted below:

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

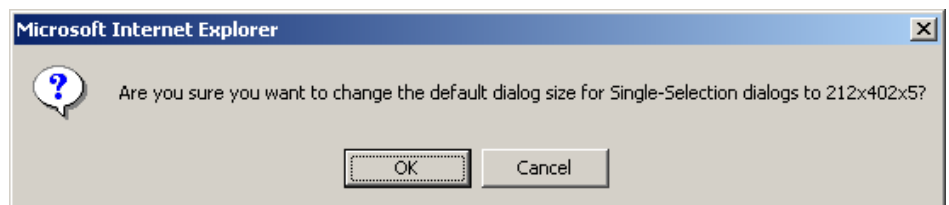


Users can select the appropriate icon or dimension to change the default size for the associated dialog type (and displayed rows for selection dialogs).

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.

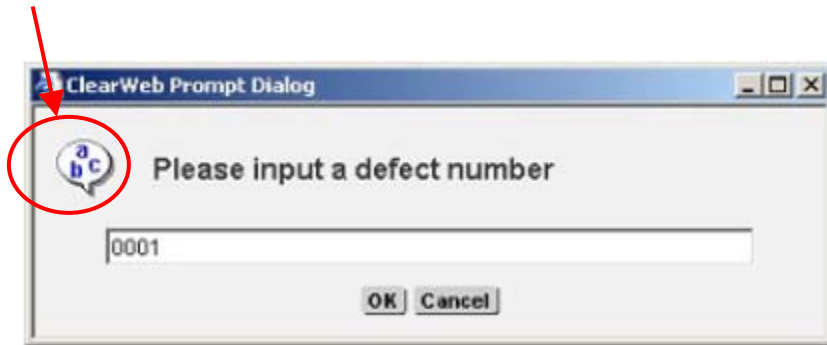


If the shape is valid then the user receives a final confirmation that displays the new dimension. The user can accept the new shape or cancel.





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 ClearCaser 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.