



Administration Guide

Release 5.0.2

www.TURBO-Enterprise.com

TURBO Enterprise Release 5.0.2, Administration Guide
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About This Guide

The TURBO Enterprise Administration Guide provides you with administration information and step-by-step procedures to perform administration tasks related to TURBO Enterprise. This guide is task-based. For additional information on each module within the Administration application, refer to the *TURBO Enterprise Resource Guide*.

This Administration Guide assumes you have completed the following tasks:

- Installed TURBO Enterprise Release 5.0.2
- Set up all the networking software that you plan to use

Audience

This guide is intended for anyone responsible for performing administration tasks for TURBO Enterprise Release 5.0.2

Downloads

You can download a trial version of TURBOEnterprise 5.0.2 at www.turbo-enterprise.com, by selecting the 'Product' tab, and clicking on 'Download'. To access the link directly from this document, click here: [Downloads](#).

Document Conventions

A greater-than symbol (>) is used to separate actions within a step and items in a cross-reference path.

A trademark symbol (®, TM, etc.) denotes a company trademark. An asterisk (*) denotes a third-party trademark.

An [underlined word or phrase](#) denotes an internal hyperlink or cross reference.

The *Courier New* font is used to denote variables, parameters, file and script names, and commands.

What's New

TURBOEnterprise Release 5.0.2 offers several new features and key enhancements to various components. These enhancements improve management, and enhance security:

- Oracle Forms Conversion utility: a powerful tool to convert your unsupported client/server Oracle* Forms to a supported, Web-based PL/SQL environment.
- The File System: a complete file management and version control repository, with drag and drop features, 'on-demand' loading capabilities and the option to save default navigation tree settings.
- The Calendar: an integrated, customizable event tracking and scheduling tool.
- Enterprise Social Networking Tools: tools that enable secure corporate communication, and streamline team collaboration and productivity. Example: the Wall, Buddy List, Instant Messaging.
- Application Builder: an easy way to start your new application directly from the user interface with just one click. You also have the option of adding a File System and Calendar to your application when you create it.

To learn more about these features, refer to the list of additional documents provided in the section [Additional Resources](#).

Product Overview

TURBO Enterprise is an application development framework and platform for building Rich Web Applications (RWAs) using Oracle's Procedural Language/Structured Query Language (PL/SQL). New technologies are often viewed as 'disruptive' because they introduce unproven technology, change how things are done, and require new types of technical specialists. TURBO Enterprise turns 'disruptive technology' into a 'disruptive approach using stable technology'. Rather than introduce new unfamiliar technology, TURBO Enterprise makes greater use of the technology you already know: the Oracle database. This enables you to make better use of time and money by leveraging your current staff skills, hardware infrastructure, and the existing investment in your Oracle database. Using open standards and methodologies, TURBO Enterprise uses Oracle as a 'thick database'. The entire application, including business logic, data processing and User Interface rendering, is served from within the database. This 'technology efficiency' eliminates middle-tier processing, reducing overhead and bandwidth requirements, and increasing application efficiency. Enterprises can now reap all the benefits of the latest Web technologies to produce RWAs, while adhering to the security and performance needs of an enterprise environment. Moreover, RWAs are easy to deploy and provide a richer user experience.

Architecture

TURBO resides within the Oracle database and has a compiled, virtual, three-tier system architecture to contain the components needed to build and run Enterprise solutions: security, user interface rendering, stored business logic, and optimized performance. The system architecture is database-centric, and relies on the power and performance of PL/SQL. Data is separated from the application by setting up specific layers in which each resides and operates. For detailed information on TURBO Enterprise architecture, refer to the *TURBO Enterprise Resource Guide* at www.turbo-enterprise.com.

The Administration Application

The TURBO Enterprise Administration application provides you with all the tools you need to efficiently manage administration tasks through a simple user interface within TURBO Enterprise. Release 5.0.2 features significant changes to the way administration is handled by TURBO Enterprise. You can now manage user access through Access Control Lists (ACL). Every object within TURBO Enterprise is assigned a unique ACL ID. The ACL ID is transparent and you can specify as many access types as there are ACL IDs.

The Administration application is comprised of 11 folders. Each folder or sub-folder (and any new object you may add) has an ACL associated with it. Profiles, privileges, and members belonging to the profile can be controlled through the ACL.

- **User Directory:** allows you to view active, inactive, and pending users, and manage user profiles, password credentials, and account status.
- **Create User:** allows you to create a new user profile.
- **Security Profiles:** allows you to view existing profiles and associated profiles members, add or delete new profiles, and add or delete new members.
- **Page Security:** allows you to view existing procedures associated with pages, create new pages, and work with profiles, privileges, and members for each page.
- **PW Policy:** allows you to view, edit and add new password policies.
- **Parameter Editor:** allows you to customize and change the values of global variables.
- **Lookup Codes:** allows you to view and manage lookup code types and lookup code details.
- **Meta Data:** allows you to view, edit and add table and column meta data.
- **TURBO Core Files:** contains all the core files required for TURBO Enterprise. These files are managed through TURBO's own integrated File Management System.
- **TURBO Activation:** allows you to activate your TURBO Enterprise software.

Access Control Lists

TURBO Enterprise 5.0.2 features an Access Control List (ACL)-based security model. Every object, node, folder, or sub-folder you create within TURBO as part of your application can have an ACL associated with it. An ACL is a list of permissions attached to an object. AN ACL specifies which users or system processes are granted access to objects, as well as what operations are allowed on specified objects. Each entry in a typical TURBO ACL specifies a profile, a privilege, and a member. The profile with a list of associated members is the 'Subject', and the privilege is an 'operation' or an activity that is performed. For instance, if the Create User module within TURBO's Administration application has an ACL that contains 'Admin, View Item, John Doe', this would give the user John Doe permission to view items in the Administration profile.

When a subject requests an operation on an object in an ACL-based security model the operating system first checks the ACL for an applicable entry to decide whether the requested operation is authorized. A key issue in the definition of any ACL-based security model is determining how access control lists are edited, namely which users and processes are granted ACL-modification access. TURBO Enterprise applies the ACL model to collections of objects as well as to individual entities within the system hierarchy. [Figure 1](#) shows the ACL for the Create User module within TURBO's Administration application.

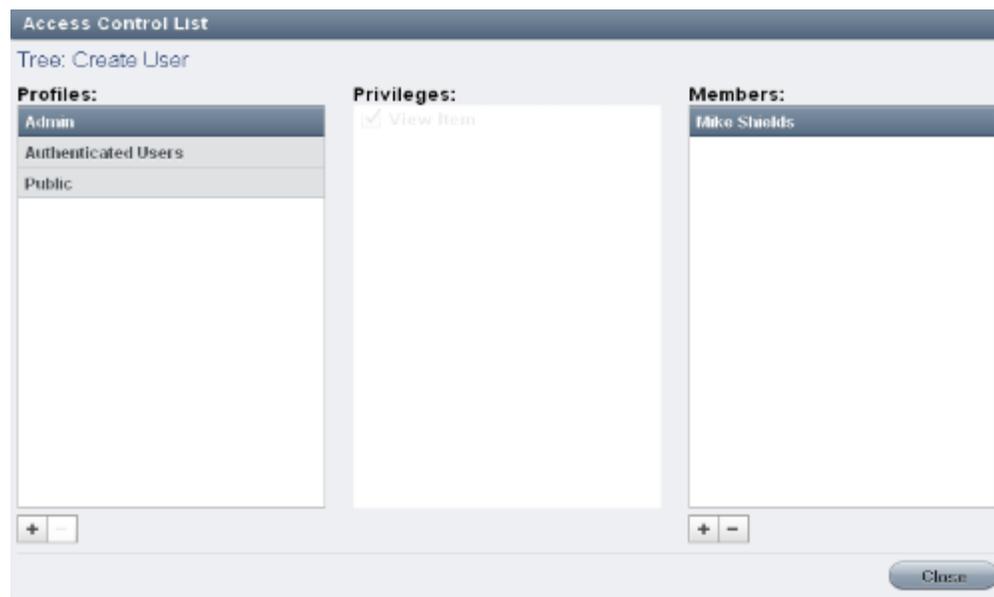


Figure 1 "Access Control List"

You can access the ACL of an 'object' in TURBO's Tree, by using the right-click on your mouse, and then clicking on 'Access Control List' to view the list of authorized operations on the object. The ACL for any given object may be edited only by an authorized individual.

Activate TURBO Enterprise

Perform these steps to activate TURBO Enterprise:

1. Navigate to the Administration application within TURBO Enterprise.
2. Select TURBO Activation.

The TURBO Enterprise Activation Screen is displayed.

A screenshot of a software dialog box titled "TURBO Enterprise Activation". The dialog has a title bar with a blue background and a close button. Inside, there are two text input fields. The first is labeled "Organization:" and contains the text "TURBO Enterprise". The second is labeled "Activation Key:" and contains a long alphanumeric string: "9264AAE417533177038130960FE34D3B". At the bottom right of the dialog, there are two buttons: "Activate" and "Cancel".

Figure 2 "TURBO Activation"

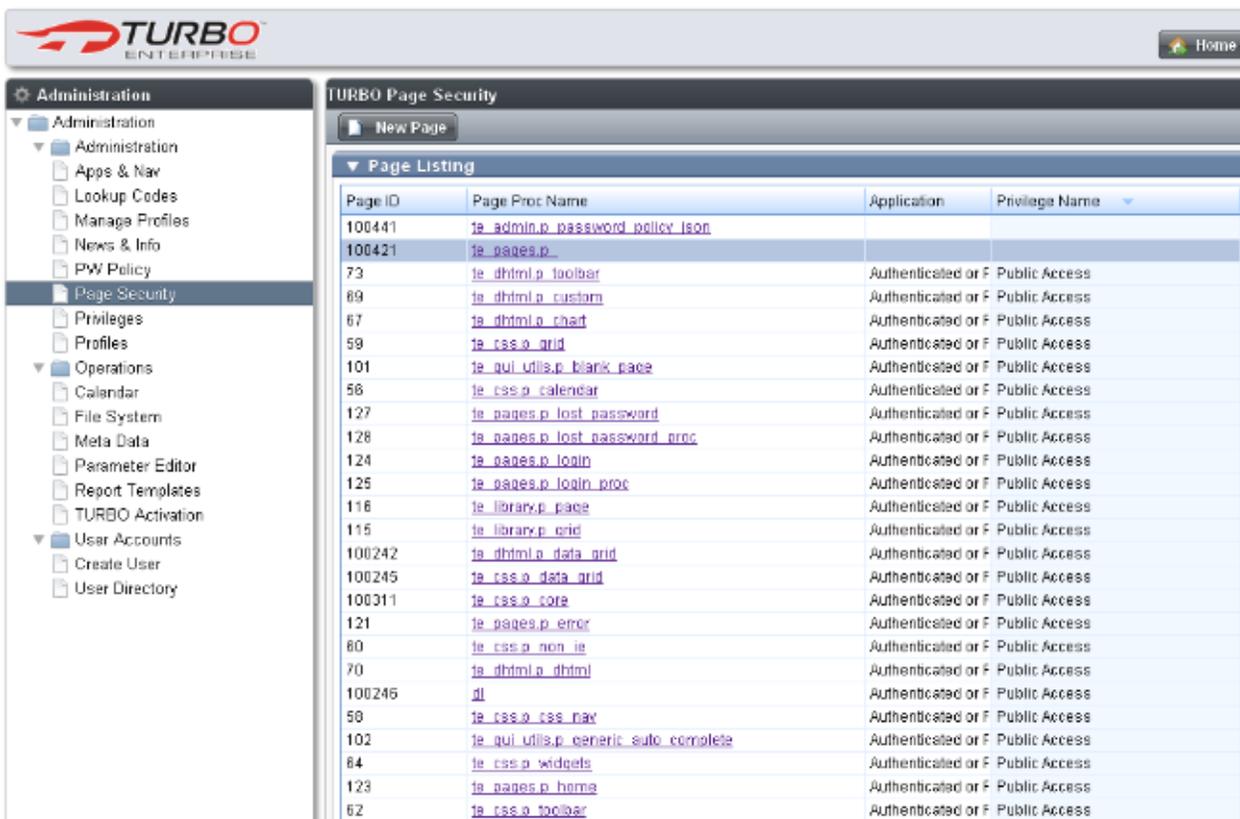
3. Enter your organization's name and the TURBO Enterprise activation key.
4. Click **Activate**.

Specify Page Access Control

After you have created a new application through the Application Builder, you will need to specify access to your application's pages to allow these pages to access the default functions and procedures in the application package. Follow these steps to specify access for a page:

1. Navigate to the Administration application within TURBO Enterprise
2. Select Page Security.

The TURBO Page Security screen is displayed.



The screenshot shows the TURBO Page Security interface. On the left is a navigation tree with 'Page Security' selected. The main area displays a 'Page Listing' table with the following data:

Page ID	Page Proc Name	Application	Privilege Name
100441	ta_admin.p_password_policy_ison		
100421	ta_pages.p_		
73	ta_dhtml.p_toolbar	Authenticated or F	Public Access
69	ta_dhtml.p_custom	Authenticated or F	Public Access
67	ta_dhtml.p_chart	Authenticated or F	Public Access
59	ta_css.o_grid	Authenticated or F	Public Access
101	ta_gui_utils.p_blank_page	Authenticated or F	Public Access
56	ta_css.p_calendar	Authenticated or F	Public Access
127	ta_pages.p_lost_password	Authenticated or F	Public Access
128	ta_pages.p_lost_password_proc	Authenticated or F	Public Access
124	ta_pages.p_login	Authenticated or F	Public Access
125	ta_pages.p_login_proc	Authenticated or F	Public Access
116	ta_library.p_page	Authenticated or F	Public Access
115	ta_library.p_grid	Authenticated or F	Public Access
100242	ta_dhtml.p_data_grid	Authenticated or F	Public Access
100245	ta_css.o_data_grid	Authenticated or F	Public Access
100311	ta_css.o_core	Authenticated or F	Public Access
121	ta_pages.p_error	Authenticated or F	Public Access
60	ta_css.o_non_ie	Authenticated or F	Public Access
70	ta_dhtml.p_dhtml	Authenticated or F	Public Access
100246	di	Authenticated or F	Public Access
58	ta_css.o_css_nav	Authenticated or F	Public Access
102	ta_gui_utils.p_generic_auto_complete	Authenticated or F	Public Access
64	ta_css.o_widgets	Authenticated or F	Public Access
123	ta_pages.p_home	Authenticated or F	Public Access
62	ta_css.o_toolbar	Authenticated or F	Public Access

Figure 3 "Page Security"

- Click on the Page Procedure Name column ('Page Proc Name') to open the Access Control List.

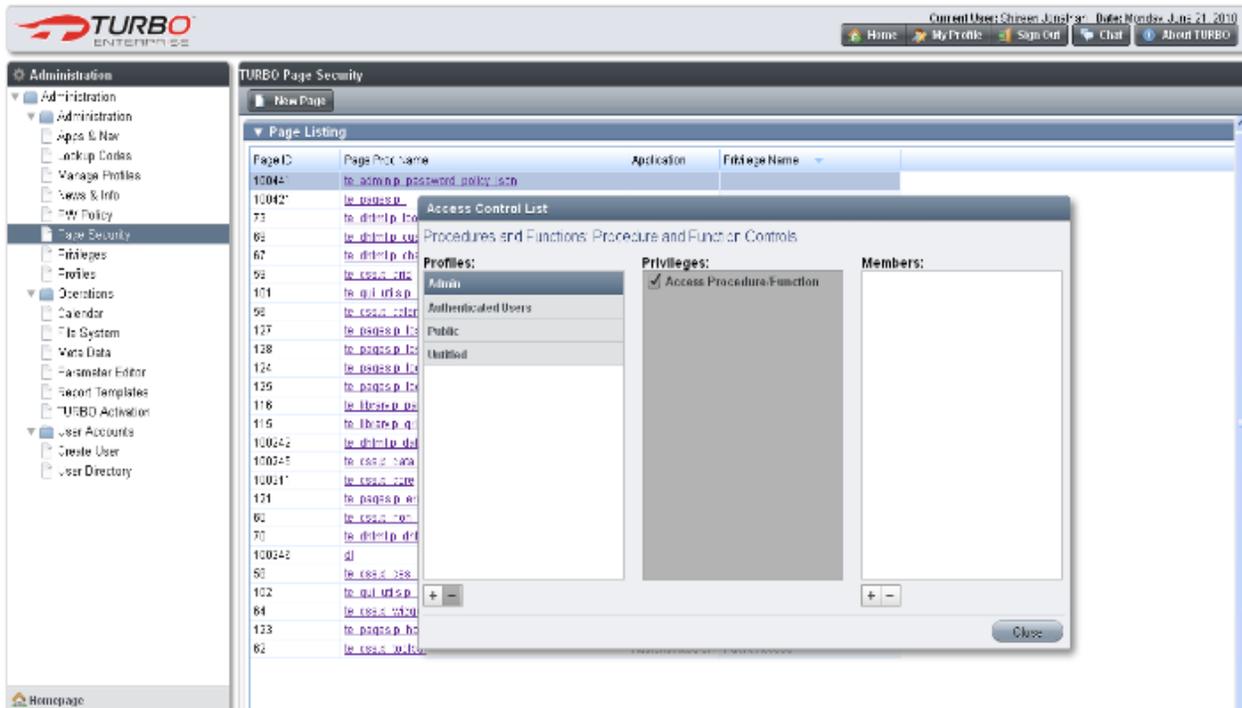


Figure 4 "Page Security Access Control List"

The Page Security ACL lists all the profiles, privileges, and members for the page, and allows you to control page access to procedures and functions.

- Select the profile and privilege you want the page to have and click 'Close'.

Create Security Profile

Follow these steps to create a new profile:

1. Navigate to the Administration application within TURBO Enterprise.
2. Select **Security Profiles**.
3. The Profile Management screen is displayed.

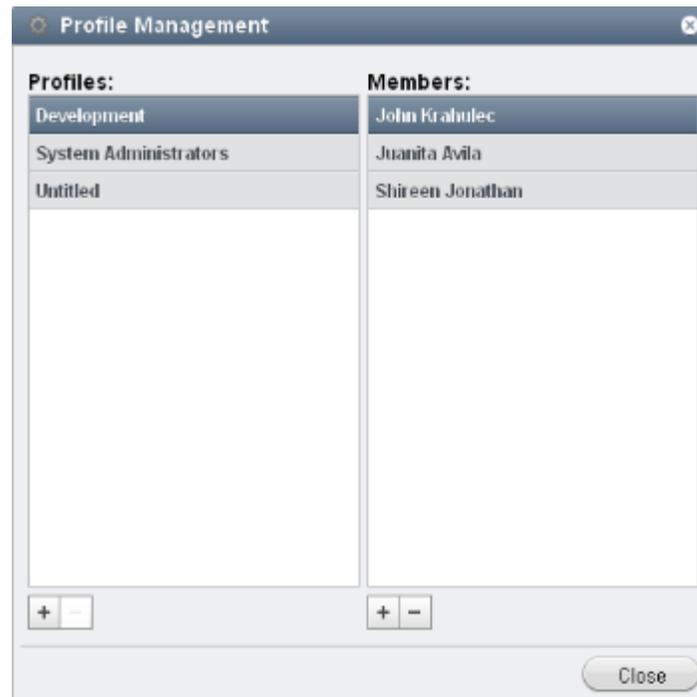


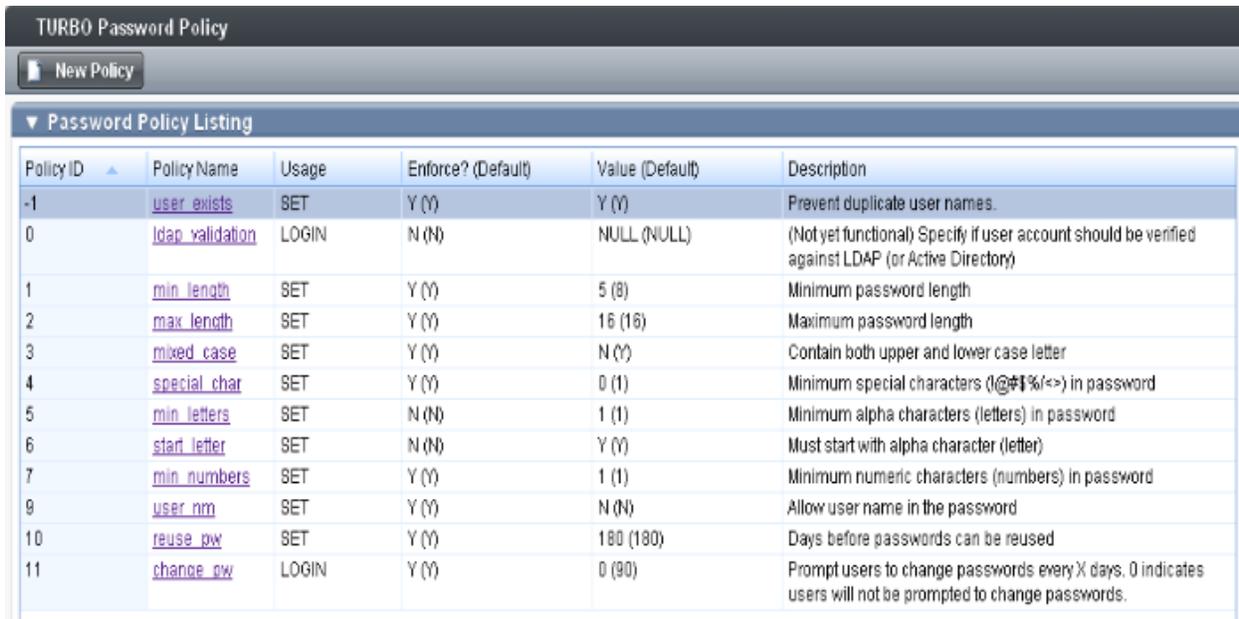
Figure 5 "Profile Management"

4. Click the + or – icon to add or delete profiles and members.

Manage Password Policies

1. Navigate to the Administration application within TURBO Enterprise.
2. Select the **PW Policy** module.

The TURBO Password Policy screen is displayed.



The screenshot shows the 'TURBO Password Policy' interface. At the top, there is a 'New Policy' button. Below it is a 'Password Policy Listing' section containing a table with the following data:

Policy ID	Policy Name	Usage	Enforce? (Default)	Value (Default)	Description
-1	user_exists	SET	Y (Y)	Y (Y)	Prevent duplicate user names.
0	ldap_validation	LOGIN	N (N)	NULL (NULL)	(Not yet functional) Specify if user account should be verified against LDAP (or Active Directory)
1	min_length	SET	Y (Y)	5 (8)	Minimum password length
2	max_length	SET	Y (Y)	16 (16)	Maximum password length
3	mixed_case	SET	Y (Y)	N (Y)	Contain both upper and lower case letter
4	special_char	SET	Y (Y)	0 (1)	Minimum special characters (!@#%/*<=>) in password
5	min_letters	SET	N (N)	1 (1)	Minimum alpha characters (letters) in password
6	start_letter	SET	N (N)	Y (Y)	Must start with alpha character (letter)
7	min_numbers	SET	Y (Y)	1 (1)	Minimum numeric characters (numbers) in password
9	user_nm	SET	Y (Y)	N (N)	Allow user name in the password
10	reuse_pw	SET	Y (Y)	180 (180)	Days before passwords can be reused
11	change_pw	LOGIN	Y (Y)	0 (90)	Prompt users to change passwords every X days. 0 indicates users will not be prompted to change passwords.

Figure 6 "Password Policy Screen"

3. Click on an existing policy in the Policy Name column to edit it.
4. Select the 'New Policy' tab to create a new password policy.

Manage Lookup Codes

1. Navigate to the Administration application within TURBO Enterprise.
2. Select the Lookup Codes module.

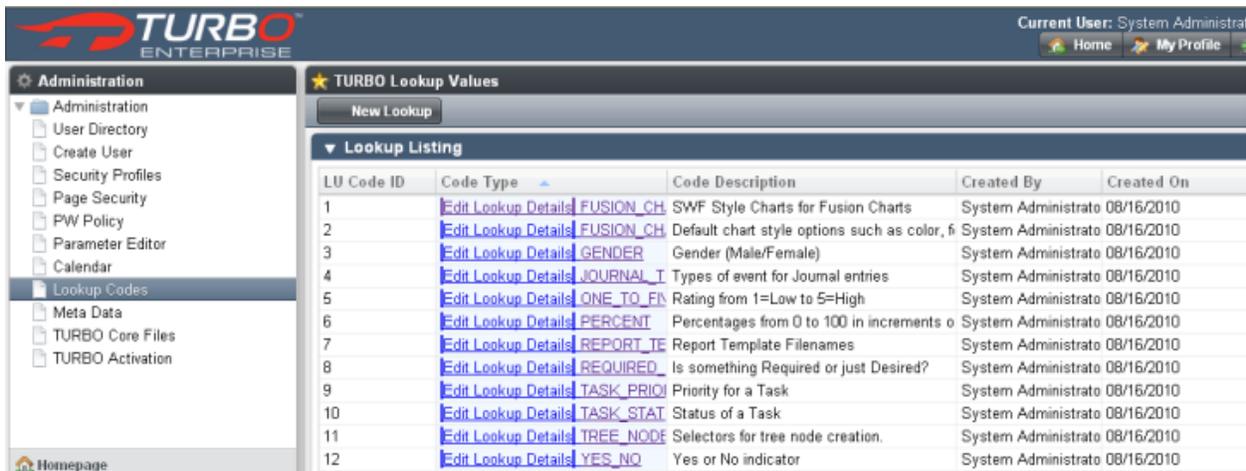


Figure 7 "Lookup Code Types"

3. To edit a Lookup Code, click on 'Edit Lookup Details' in the Code Type column.
4. To add a new Lookup Type, click on the New Lookup tab.
5. To view Lookup Type details, click on the code type in the Code Type column for the record whose details you want to view.

The Lookup Editor for the lookup type you selected is displayed. The Lookup Editor allows you to view and sort lookup details associated with a specific Lookup Type.

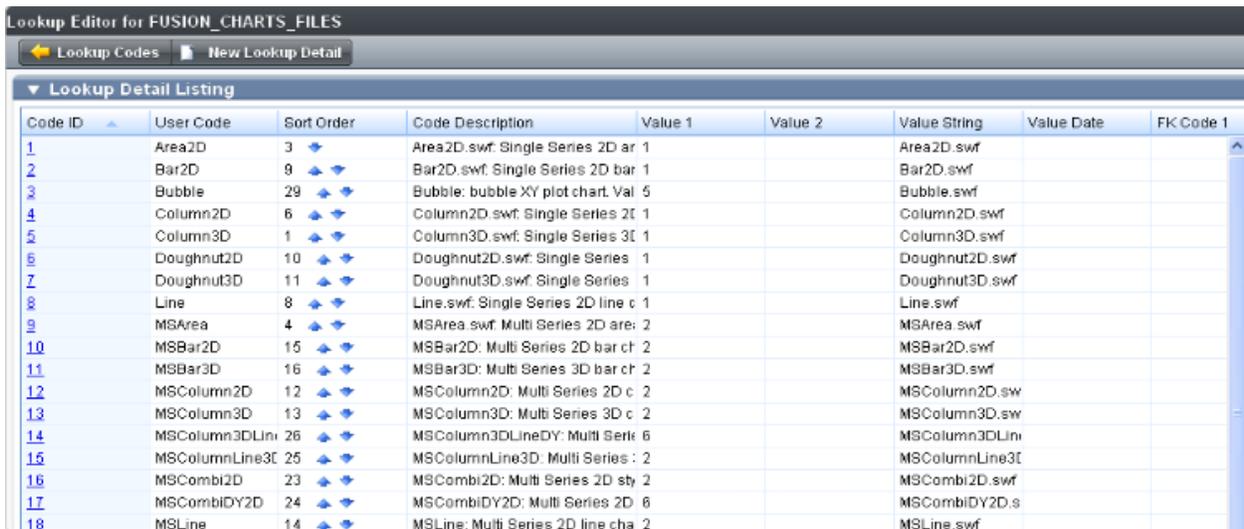


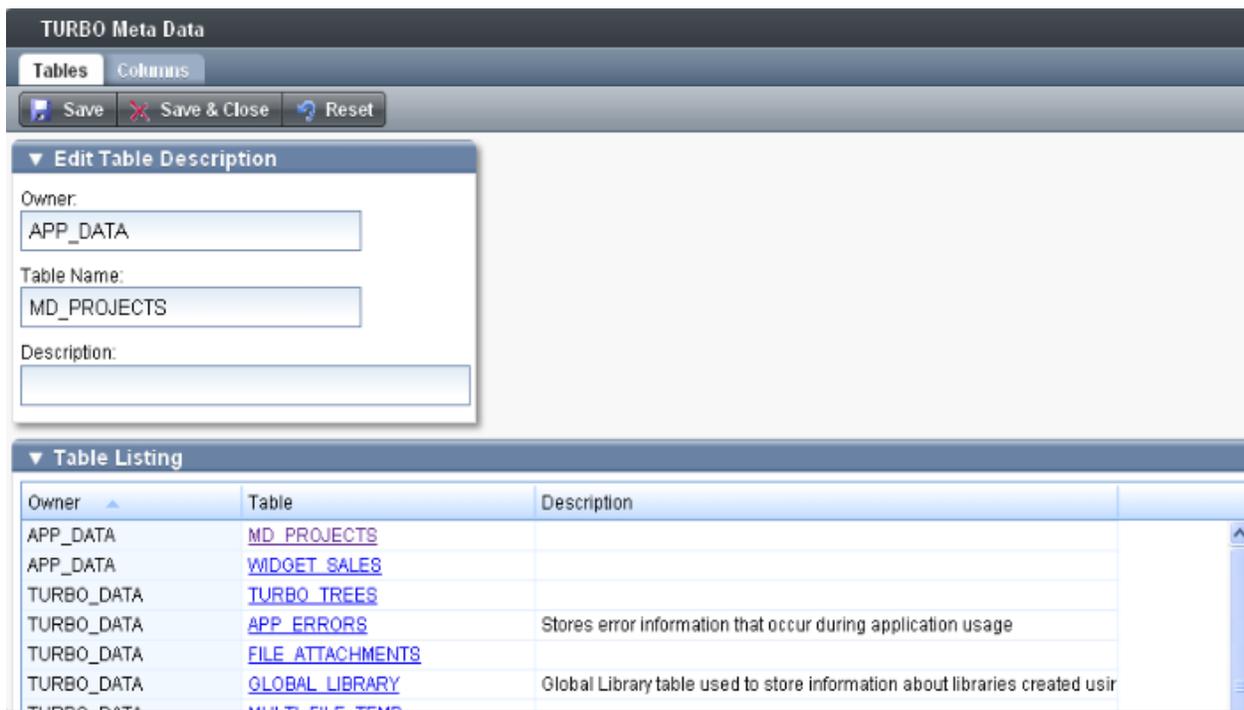
Figure 8 "Lookup Editor"

Manage Meta Data

1. Navigate to the Administration application within TURBO Enterprise.
2. Select the Meta Data module.

The TURBO Meta Data page is displayed. This page allows you to view the list of tables in your database, along with the associated description, table owner, and table name.

[Figure 9](#) shows meta data for the MD_PROJECTS table.

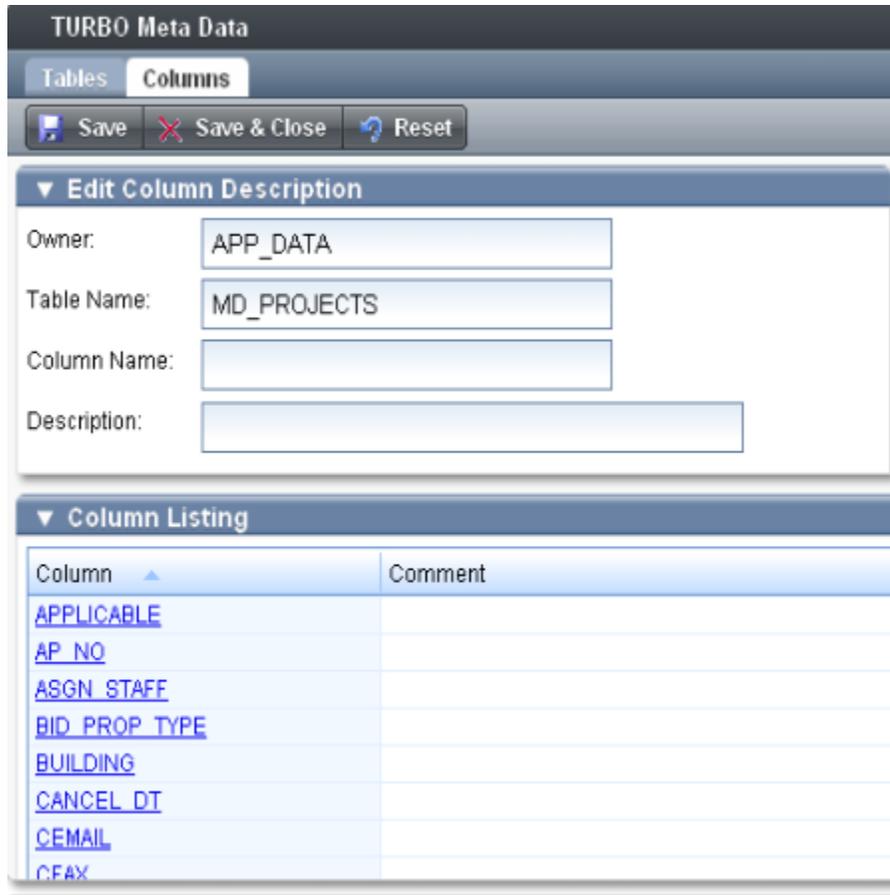


Owner	Table	Description
APP_DATA	MD_PROJECTS	
APP_DATA	WIDGET SALES	
TURBO_DATA	TURBO TREES	
TURBO_DATA	APP ERRORS	Stores error information that occur during application usage
TURBO_DATA	FILE ATTACHMENTS	
TURBO_DATA	GLOBAL LIBRARY	Global Library table used to store information about libraries created usir
TURBO_DATA	MULTI-FILE TEMP	

Figure 9 "Manage Meta Data"

3. Click on a table name in the Table column within the grid, to view and edit that table's meta data.

- To view a list of columns within the table, and column meta data, click on the Column tab. Shows a sample list of columns and meta data for the MD_PROJECTS table.



TURBO Meta Data

Tables Columns

Save Save & Close Reset

▼ Edit Column Description

Owner:

Table Name:

Column Name:

Description:

▼ Column Listing

Column	Comment
APPLICABLE	
AP_NO	
ASGN_STAFF	
BID_PROP_TYPE	
BUILDING	
CANCEL_DT	
CEMAIL	
CFAX	

Figure 10 "Column Meta Data"

- To edit a column's description, click on the column name and make your changes in the Edit Column Description box, above the grid.
- Click **Save**.

Manage Parameters

1. Navigate to the Administration application within TURBO Enterprise.
2. Select the Parameter Editor module.

The TURBO Parameter Editor page is displayed. This page allows you to edit global variables such as log in screen icons, global headers and footers, and organization logos.



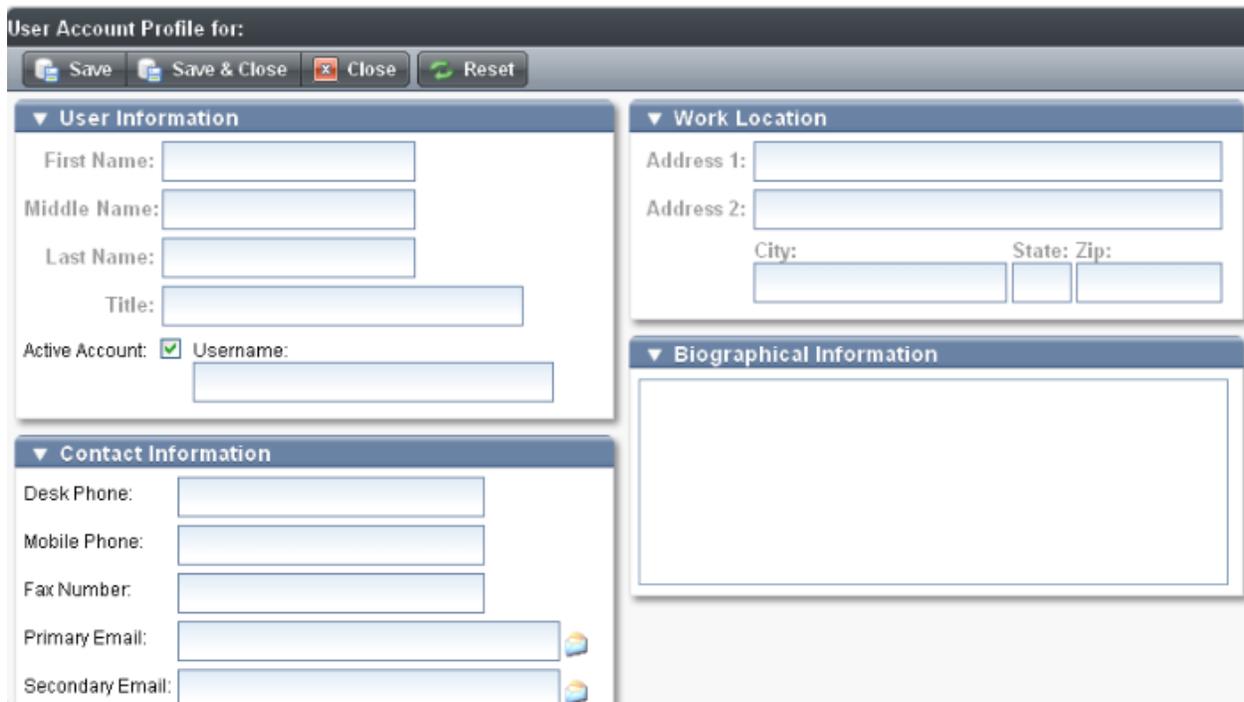
Figure 11 "Parameter Editor"

3. Edit the parameter you want.

Create Users

1. Navigate to the Administration application within TURBO Enterprise.
2. Select the Create User module.

The User Account Profile page is displayed. The User Account Profile page allows you to create a new user account and set up a profile with all the required information.



The screenshot shows the 'User Account Profile for:' window. At the top, there are buttons for 'Save', 'Save & Close', 'Close', and 'Reset'. The form is divided into four main sections:

- User Information:** Includes fields for First Name, Middle Name, Last Name, Title, and Username. There is a checkbox for 'Active Account' which is checked.
- Work Location:** Includes fields for Address 1, Address 2, City, State, and Zip.
- Contact Information:** Includes fields for Desk Phone, Mobile Phone, Fax Number, Primary Email, and Secondary Email.
- Biographical Information:** A large empty text area for additional information.

Figure 12 "User Account Profile"

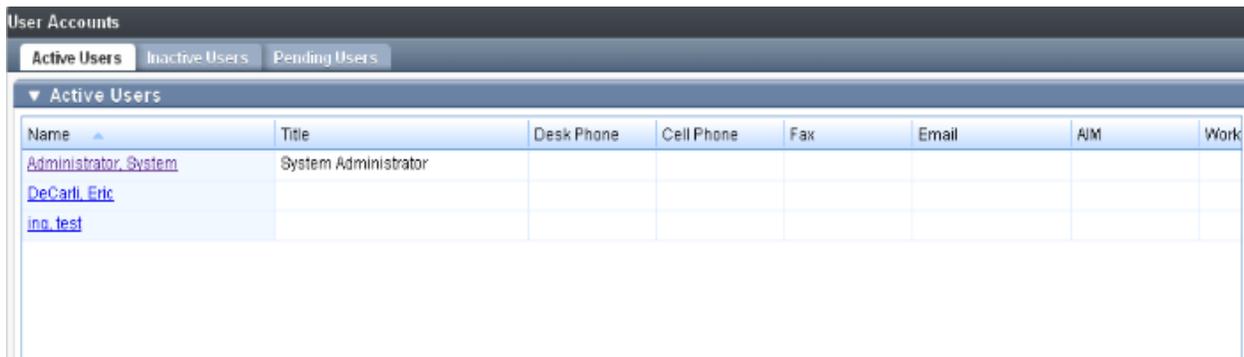
3. Enter and save the new user information.

The new user account profile is different from a system profile. You can add a list of users or user accounts to a system profile, and select the privileges you want associated with the system profile. The new user account you create will become available in the 'Members' list of an ACL if you add the system profile associated with this new user to the ACL of the object.

Manage User Profiles and Privileges

1. Navigate to the Administration application within TURBO Enterprise.
2. Select the User Directory module.

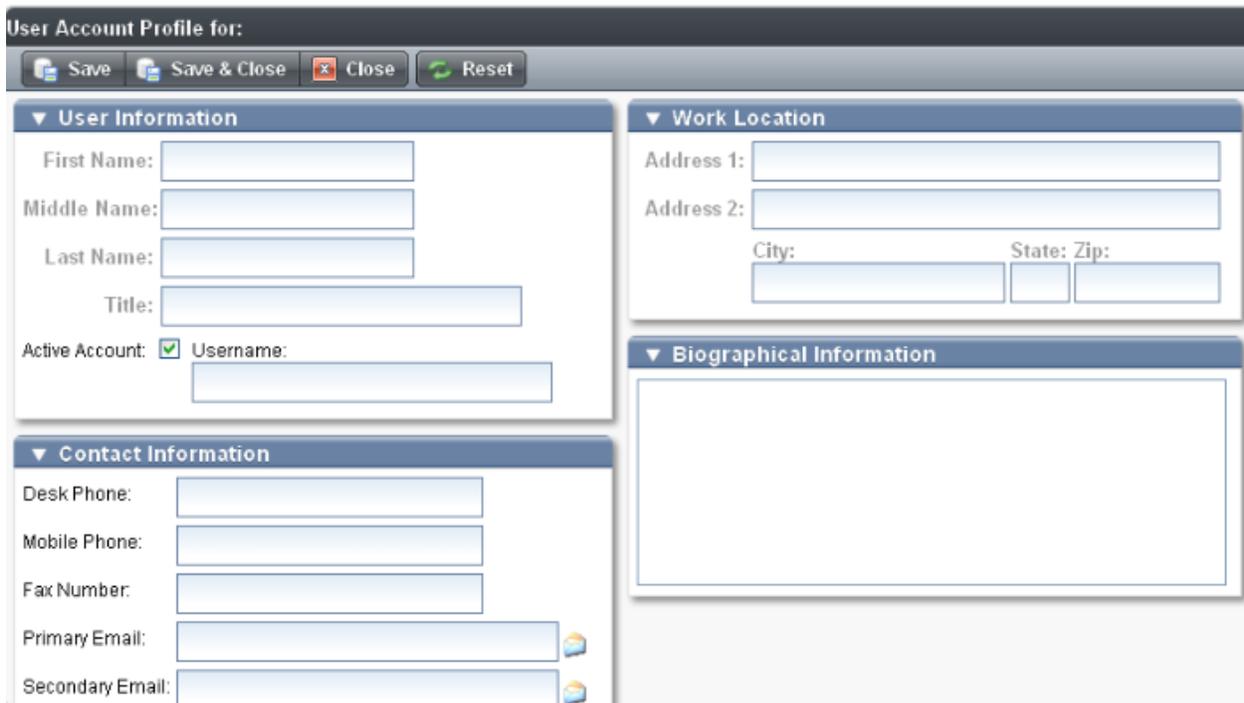
The User Accounts page is displayed. This page provides a list of active, inactive, and pending users.



User Accounts							
Active Users Inactive Users Pending Users							
▼ Active Users							
Name	Title	Desk Phone	Cell Phone	Fax	Email	AIM	Work
Administrator, System	System Administrator						
DeCarli, Eric							
ing_test							

Figure 13 "User Accounts"

3. To edit an individual user account profile, click on the user's name in the 'Name' column within the grid. The individual User Account Profile is displayed.



User Account Profile for:

Save Save & Close Close Reset

▼ User Information

First Name:

Middle Name:

Last Name:

Title:

Active Account: Username:

▼ Work Location

Address 1:

Address 2:

City: State: Zip:

▼ Contact Information

Desk Phone:

Mobile Phone:

Fax Number:

Primary Email: 

Secondary Email: 

▼ Biographical Information

Figure 14 "User Account Profile"

4. To change the security profiles assigned to the user, click on 'Set Profiles'.

The User Profile Management dialog box is displayed.

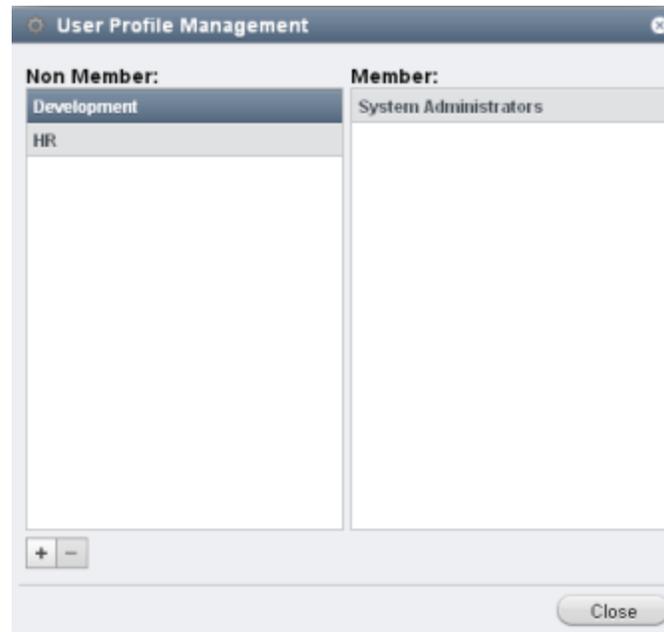


Figure 15 "Security Profiles"

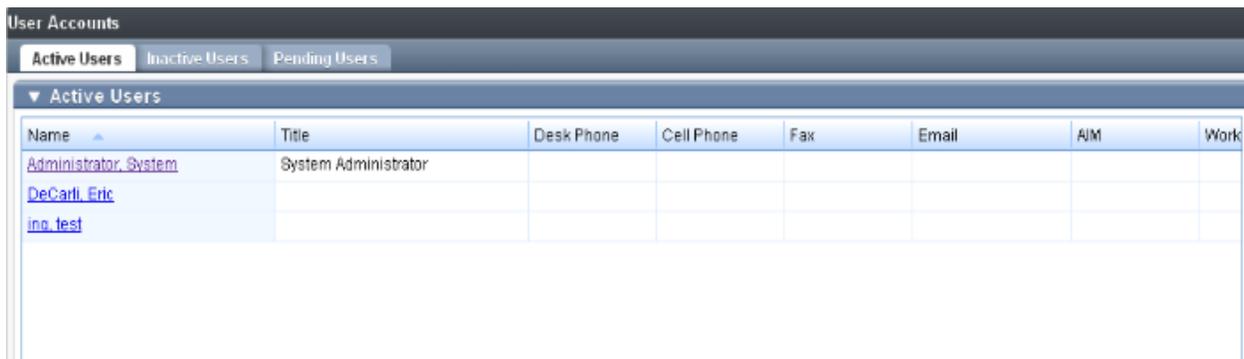
5. Select or deselect the profiles you want associated with the user account and close the dialog box.
6. Click **Save**.

Note: Users may access their individual profiles through the Profile tab in the 'My Profile' horizontal toolbar.

Manage User Passwords

1. Navigate to the Administration application within TURBO Enterprise.
2. Select the User Directory module.

The User Accounts page is displayed. This page provides a list of active, inactive, and pending users.



The screenshot shows the 'User Accounts' interface with tabs for 'Active Users', 'Inactive Users', and 'Pending Users'. The 'Active Users' tab is selected, displaying a table with the following data:

Name	Title	Desk Phone	Cell Phone	Fax	Email	AIM	Work
Administrator, System	System Administrator						
DeCarli, Eric							
ing_test							

Figure 16 "User Accounts"

3. Click on the user's name in the 'Name' column within the grid.

The individual User Account Profile is displayed.

4. Click 'Set Password'.

The Password Reset dialog box is displayed.



The screenshot shows a 'Password Reset' dialog box. At the top, the title bar reads 'Password Reset'. Below it, the 'Password Policy' section lists 'Maximum password length: 16' and 'Allow user name in the password: No'. The main area contains three input fields: 'New Password:', 'Password Strength:', and 'Confirm New Password:'. The 'Password Strength:' field is highlighted in red and displays the text 'Too short'. At the bottom of the dialog, there are two buttons: 'Change Password' and 'Cancel'.

Figure 17 "Password Credential Update"

5. Update or reset the user's password and close the box.
6. Click 'Save' on the User Account Profile page.

TURBO Core Files

The TURBO core files module stores all the files required by TURBO's APIs. You can use this module to access TURBO files, or store the file your custom application requires.

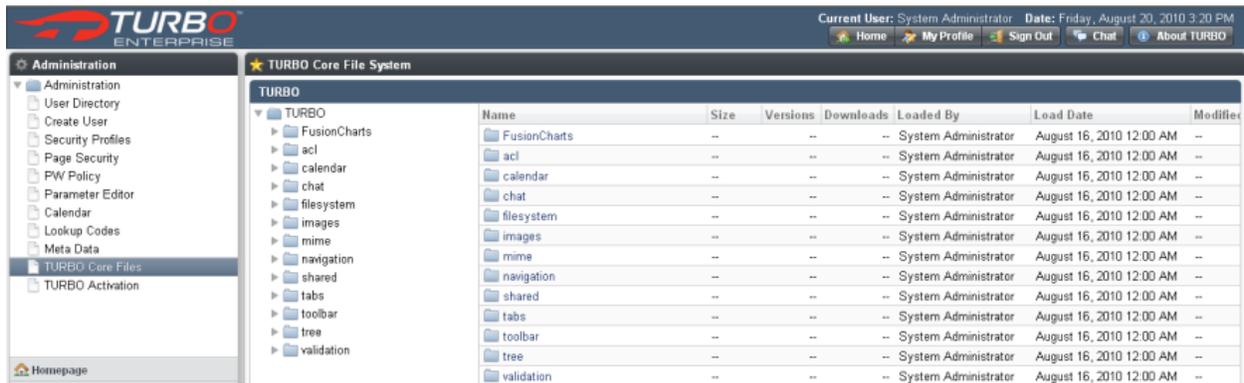


Figure 18 "TURBO Core Files"

Additional Resources

You can access the latest online documentation for TURBO Release 5.0.2 at www.turbo-enterprise.com, by selecting the 'Resource Lounge' tab and clicking on 'Documentation'. To access the link directly from this document, click here: [Documentation](#). Other documentation in this series includes:

TURBO Enterprise Resource Guide: provides detailed information on TURBO Enterprise architecture, security, and application development features.

TURBO Enterprise Installation and Configuration Guide: provides step-by-step procedures to install and configure TURBO Enterprise.

TURBO Enterprise Developer Tutorial: shows you the building blocks of developing in TURBO Enterprise.

TURBO Enterprise Oracle Forms Conversion Guide: explains Forms Conversion and provides step-by-step procedures to convert unsupported client/server Oracle Forms to a supported Web-based PL/SQL environment.

Videos

To learn more about a specific topic, download watch the TURBO Enterprise demo videos available at www.turbo-enterprise.com. The following videos are currently available:

- TURBO Overview
- Oracle Forms Conversion
- File Management System
- Enterprise Social Networking