

# Banner Web Tailor Release Guide

*Release 8.0  
April 2008*



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**Revision History Log****Publication Date    Summary**

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April 2008	New version that supports Web Tailor 8.0 software.
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# Introduction

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This guide documents Release 8.0 of Banner Web Tailor. Release 8.0 includes enhancements and problem resolutions.

This document describes the following enhancements.

## ***PIN Maintenance***

Web Tailor packages were updated to support encrypted PINs and other security enhancements for user PINs and security questions.

## ***Miscellaneous Enhancements***

This release of Banner Web Tailor delivers changes that support Banner Document Management Suite (BDMS), Banner Enterprise Identity Services, and Banner Employee Self-Service.

## Documentation Change for Problem Resolutions

Problem resolutions are summarized by module at the end of this release guide. The detailed description, impact, and resolution information for each problem resolution is delivered in a separate `.txt` file. The file for this release is named `wtlweb80000resolutions.txt`. As a result of this change, information about problem resolutions is more consistent between release guides and the Customer Support Center.

## Cumulative Documentation

This document provides detailed information about the Banner Web Tailor 8.0 release only. Banner Web Tailor 8.0 is a cumulative release that also includes enhancements, RPEs, and problem resolutions delivered in the Web Tailor 7.1, 7.2, 7.3, and 7.4 releases. For complete documentation about these interim releases, please refer to the interim release guides identified in the table that follows.

<b>Release Number</b>	<b>Contents</b>	<b>Release Date</b>
7.1	Security	May 2005
7.2	Web Graphics, Web Navigation	October 2005
7.3	List Selection	May 2006
7.4	Schema Owners List	November 2006





## Overview

Banner General Release 8.0 includes an enhancement for user PIN (password) security. The following functionality is included in this enhancement.

- PINs can now be stored in encrypted form.

A cryptographic hash transforms the PIN before it is stored, so that the unencrypted password can never be retrieved from the database. For additional security, the PIN is “salted” before it is encrypted; that is, a randomly generated string is added to the PIN before encryption. When a user enters a PIN to gain access to the system, the user’s entered PIN is transformed using the same cryptographic PIN. The database checks for a match before the user can proceed.

- Institutions can now set and enforce standards for strong passwords.

Strong passwords are passwords which are long, complex, and nearly impossible to guess. Your institution can enforce strong password standards based on: the minimum and maximum permissible length of user PINs, the requirement that PINs include letters, digits, or both letters and digits, and the restriction of PIN reuse (number of days before a previous PIN can be reused).

- A new, more secure PIN reset mechanism has been established.

When a user forgets a password, the PIN reset can be requested by answering a series of security questions with answers that the user has previously provided. You can also decide whether users are allowed to generate their own security questions, or whether they must use standard questions established by the institution. The user’s answers are stored in encrypted form, just like the PIN.

A new PIN Questions Form (GOAQSTN) is included in this enhancement. The Enterprise PIN Preferences Form (GUAPPFR), the Third Party Access Form (GOATPAC), and the Third Party Access Audit Form (GOATPAD) have been modified for the PIN security updates.

Please refer to the *Banner General 8.0 Release Guide* for more information on the PIN enhancement. Also refer to the *Banner Web General 8.0 Release Guide* for information on changes to

- The Self-Service PIN reset procedure
- Updating security questions and answers

## Changed Packages

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The following packages were changed to support PIN encryption and a longer PIN value.

- twbkaus1.sql - This package was created to perform CPIP processing during SSO to Banner Self-Service.
- twbkaut1.sql - This package contains the procedures which pass secured information in the Campus Pipeline/Luminis application.
- twbkglib.sql/twbkgli1.sql - The procedures in this package are borrowed from GOKLIBS. It includes procedures that support PIN authentication.
- twbkint1.sql
- twbklis1.sql - This package handles aspects of Web Tailor security.
- twbklogn/twbklog1.sql - This package contains the procedures and functions that authenticate user credentials. It was modified to work with an encrypted PIN.
- twbkret1.sql - This package permits users to update Login Return Locations.
- twbkslib.sql/twbksli1.sql
- twbkwbis.sql/twbkwbi1.sql - This package, which provides the security and menu processes, was modified to encrypt the PIN entered by the Banner Self-Service user.
- twbkxna1.sql - This package contains functions which returns WebTailor menu data in XML format.



## Banner Document Management Suite (BDMS) Support

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### Changed Packages

`twbkbxmn.sql/twbkbxm1.sql`

This package, a template package for BDMS, was changed in this release in connection with internationalization.

### Updated Web Graphics

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The following new web graphics files were delivered with this release in support of new functionality for Banner Employee Self-Service.

- `web_details.gif`
- `web_errorlist.gif`
- `web_lock.gif`
- `web_morenotes.gif`
- `web_smallcaution.gif`
- `web_smallstop.gif`
- `web_unlock.gif`

The `twgbimagi_080000.sql` script installs the new image files.

# Support for Banner Enterprise Identity Services

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This release of Banner Web Tailor includes some changes to support single sign-on (SSO) implementation through the new Banner Enterprise Identity Services.

- There is a new Banner Self-Service application session cookie, IDMSSESSID.
- The TWBKWBIS.f\_validuser function was changed.

The following Web Tailor parameters were added to manage SSO setup through Banner Enterprise Identity Services. These parameters are edited in Web Tailor's parameter page.

- IDMHEADER
- IDMLOGINURI
- IDMTIMEOUT
- IDMSSO
- IDMCOOKIE
- IDMCOOKIEDOMAIN
- IDMCOOKIEPATH

The script twgbparmi\_080000.sql installs the new Web Tailor parameters.

For more information, refer to the *Banner Enterprise Identity Services Handbook*.

## Note

These parameters should be modified only if Banner Enterprise Identity Services is being used. ■

# Internationalization

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The Banner system is used by higher education institutions worldwide. As Banner is enhanced and modernized, one major initiative is to make the system more adaptable for use in different countries and with different languages. This ongoing effort is called internationalization (and often abbreviated I18N). Internationalization reduces the amount of custom modifications required to make Banner usable for clients in various countries.

For this release, several major changes were made to support internationalization.

## Unicode Support

With this release, Banner supports the Unicode international character set through the character standard UTF8. As a part of the installation process for Release 8.0, Banner's Oracle database is converted to the UTF8 standard.

## Additional IDs

A new table, the Additional Identification Table (GORADID), allows you to store any number of extra IDs for a person. Each Additional ID must be assigned an ID Type. You can set up Additional ID Types using the new validation form and table GTVADID.

A new **Additional ID** tab on the SPAIDEN form displays the new Additional ID information. See the *Banner Student 8.0 Release Guide* for more information.

## Enhanced Fields

For this release, many fields have been expanded on Banner tables and forms. These fields can now accommodate longer data values that might be needed. The types of fields that have been expanded include the following:

- Name
- Address
- Telephone number
- E-mail address
- ID
- Currency amount
- Currency rate

For complete information about I18N, including detailed information about changes to many Banner General objects, refer to the *Banner General 8.0 Release Guide*.

## Documentation Changes

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With the release of Banner 8.0, there are significant changes to the documentation:

- The look and feel of the documentation has been modernized. This new design incorporates new fonts, increased character size, and color to make the manuals easier to read and to use.

- For some products, defects information in the release guide now includes an abbreviated description of each defect correction. For additional details, refer to the supplemental text file delivered along with your release guides. This text file includes detailed problem, impact, and resolution information for each defect extracted directly from the Customer Support Center.
- Each manual now includes a publication date that reflects the actual month and year of publication. Any document that is revised will include an updated publication date to make it easier to identify revised materials.
- A revision history log has been added to the copyright page of each manual to identify any revised versions and associated changes.
- A link to a feedback form has been added to the copyright page of each manual, in the bookmarks of all PDF files, and into online help so you can provide input about the documentation.



This section lists the problem resolutions included in Release 8.0. For details about a problem resolution, refer to the wtlweb80000resolutions.txt file that accompanies this release.

## Summary of Problem Resolutions

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Object	Number	Summary
See resolution for all objects impacted	1-9LA29	It is not possible to remove all local WebTailor roles (TWGRWMRL_ROLE).
TWBKWBIS	CMS-DFCT69396	Request Failed error, rather than user-friendly error, issued when WebTailor Parm PIN...see note...

