

**Oracle® Retail Xstore Office
(Xadmin)**
User Guide
Release 7.0

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Getting Started



The rebranding for the latest version of this documentation set is in development as part of post MICROS acquisition activities. References to former MICROS product names may exist throughout this existing documentation set.

Xadmin is a web-based application used to administer corporate-based functions such as Xstore® configuration setup and maintenance, file management for the Xstore suite, viewing the electronic journal, viewing store reports, monitoring Xstore versions in use at the store and register levels, and monitoring alerts.

This guide is intended for technical personnel working with Xadmin and requires a working knowledge of Xstore POS, XML, SQL Server database, the Windows operating system, and the network system being used.



Because Xadmin UI color schemes and menu options are configurable, the page layouts and functions on your system may appear in a different order or have different text than examples shown in this manual.

Since different browsers use different rendering engines, the browser you are using may also affect the way the screens are depicted on your system.

Prerequisites

This guide assumes:

- You have the privilege-permission level to use Xadmin
- Xstore POS and Xcenter Database are in use



Refer to the Xstore Implementation Guide for detailed information about installing Xadmin and the other required components.

Web Browser Support

Xadmin supports Internet Explorer web browser, version 9.0 and 10.0, and Firefox running on the Windows 7 or Windows 8 operating systems. Other web browser/operating system combinations may work, but have not been tested.



Xadmin must be set to 100% zoom. To verify the zoom level, click View-->Zoom on the browser menu and verify the zoom is set to 100%. In IE, make sure the zoom is 100%. In Firefox, choose Zoom -> Reset.

Accessing Xadmin

Xadmin is a web-based application that you can access through an internet browser.

1. Open an internet browser.
2. Enter the server address in the Address field and press [Enter].

The login page opens.



Figure 1-1: Xadmin Login Page



The "Forgot Password" link shown here is not available in a "manually reset" password environment and when using LDAP Authentication. You can only request a forgotten password reset in "static" and "algorithm" password environments. See ["Requesting a Forgotten Password" on page 5](#) for more information about resetting your password.

3. Type your user name in the *User Id* field.
4. Type your password in the *Password* field.
5. Click the **Sign In** button.



The first time you log in to Xadmin you will be prompted to change your password. Complete the fields as required, then click Submit.

6. The Xadmin Home page displays. Select a menu option from the menu bar, or click a link in one of the Xadmin Panels to continue.

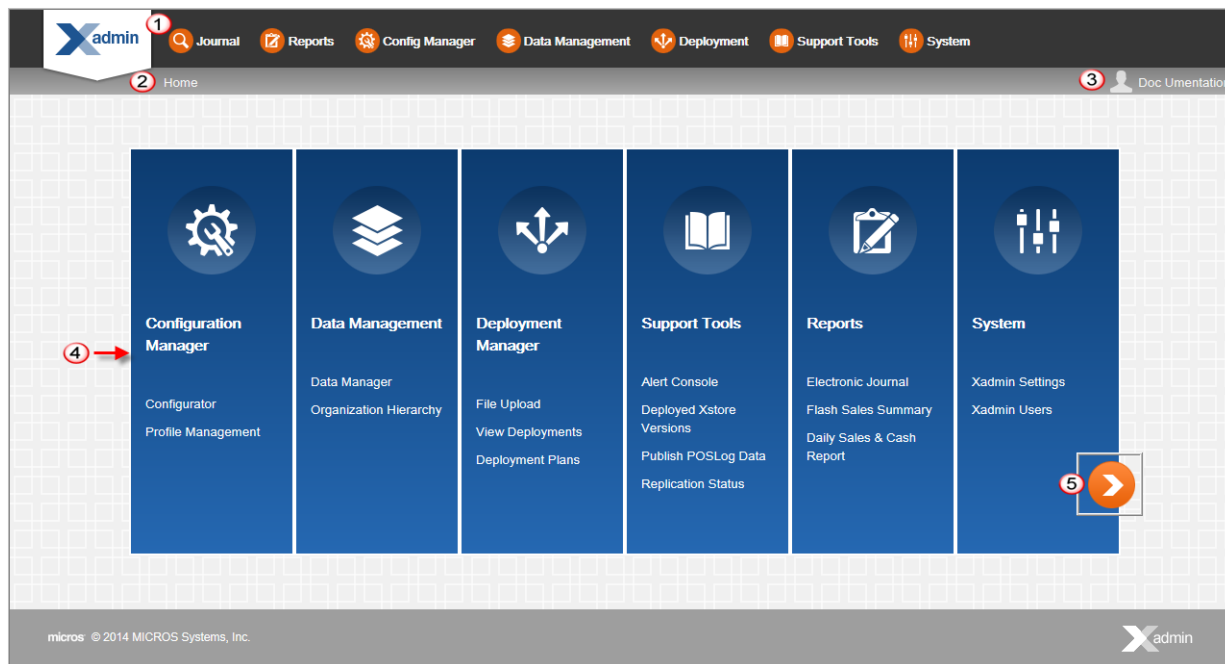


Figure 1-2: Xadmin Home Page

Home Page Layout

- | | | |
|-------------------|---------------------|--------------------------------|
| ① Menu Bar | ③ Logged In User ID | ⑤ More Arrow (when applicable) |
| ② Breadcrumbs Bar | ④ Panels | |

Navigation...



- To log out, click the logged in user ID located in the upper right section of the page.
- To return to the Xadmin Home page at any time, click the **Home** bread crumb.
- To display more panels (when applicable), click the “More” arrow.

Initial Access Setup Instructions

A default administrator security role account has been set up in the database to allow first-time access to Xadmin.

Using this default user account to log in, click the [Xadmin Users](#) link in the **System** panel or select Xadmin Users in the **System** menu to set up additional Xadmin user accounts.



MICROS recommends that you set up **at least one ADMINISTRATOR security user account**.

Once this Administrator security user has been set up, delete the initial (default) administrator user account for security purposes.

See [Chapter 2, "Roles, Users, and Security Access" on page 9](#) for detailed instructions.

Changing Your Password



This change password option is not available if you are using LDAP authentication.

To change the password of another user, see [Chapter 2, "Roles, Users, and Security Access"](#), ["Editing Xadmin User Accounts" on page 19](#).

1. To change your password, click the [Change Password](#) link on the Xadmin Login window ([Figure 1-1 on page 3](#)).
2. At the Change Password window, enter the information as required and click **Submit**.
The Xadmin Home page displays and your new password is now in effect.



See ["Passwords: Special Characters & Rules" on page 22](#) for more information about password validation.

Requesting a Forgotten Password

Use the [Forgot Password](#) link to request a password reset through email.



This option is not available in a "manually reset" or "LDAP" password environment. See ["Password Options - Non LDAP" on page 21](#) and ["LDAP Authentication" on page 25](#) for more information about password environments in Xadmin.

1. At the Xadmin Login window, or the Change Password window, click the [Forgot Password](#) link ([Figure 1-1 on page 3](#)).
2. When prompted, enter your User Id and email address, then click **OK**.
Xadmin sends an email to your email address containing a temporary password.

3. When prompted, enter your User Id and the temporary password contained in the email, then click **Sign In**.
4. At the Change Password window, enter the temporary password in the Current Password field, then enter and confirm your new password.
5. Click **Submit**. The Xadmin Home page displays.

About this Guide

Refer to the following chapters for the information you need to use the Xadmin components:

- [Chapter 2, “Roles, Users, and Security Access” on page 9](#) - This chapter provides information about creating user security roles and managing user access to Xadmin.
- [Chapter 3, “System Settings” on page 26](#) - This chapter provides information about the features used to manage the Xadmin application, including setting up the system configuration rules and paths for Xadmin itself.
- [Chapter 4, “Profile Management” on page 34](#) - This chapter provides information about creating and maintaining profile groups and elements for stores, creating and maintaining the personalities that determine the prioritized profile elements for configuration overrides, and creating and maintaining the store landscapes used for machine (register) configurations. After setting up the groups/elements and personalities/landscapes, this chapter explains how to use the information to create Store Personalities for your stores which allows you to easily maintain portions of your configuration paths.
- [Chapter 5, “Configurator” on page 50](#) - This chapter provides information about creating, maintaining, and deploying Xstore configuration changes selectively, or globally across the entire organization.
- [Chapter 6, “Data Management” on page 134](#) - This chapter provides information about creating, maintaining, and deploying Xstore data changes selectively, or globally across the entire organization.
- [Chapter 7, “Deployment Manager” on page 198](#) - This chapter provides information about using Deployment Manager to upload files for deployment and to track the status of all configuration, data, and file deployments.
- [Chapter 8, “Electronic Journal” on page 226](#) - This chapter provides information about using the Electronic Journal to view transactional data from the Xcenter database in a receipt format.
- [Chapter 9, “Reports” on page 230](#) - This chapter provides information about running and viewing any of the Xstore reports against the Xcenter (central) database.
- [Chapter 10, “Support Tools” on page 235](#) - This chapter provides information about using the Support Tools component to view issues taking place at the store level, to set up email alerts to be sent to the appropriate personnel when any issues occur, and to compile the PosLog data from within Xadmin and save it as a file to a specified location or to rebroadcast the PosLog data.
- [Appendix A: “About Deployments” on page 260](#) - This appendix explains how deployments are created by Xadmin and applied by Xstore and Xenvironment.

- [Appendix B: "Personality Maintenance & Config Paths" on page 268](#) - This appendix explains how the store personalities set up in Xadmin are used to create the config path properties.
- [Appendix C: "User Interface: Menu Configuration" on page 277](#) - This appendix explains how Xadmin can be "personalized" by adding a background image, changing the color scheme, and configuring the panel display order and content.
- [Appendix D: "Glossary" on page 283](#) - This glossary lists and defines many terms and their definitions used in this guide.
- [Appendix E: "Revision History" on page 285](#) - This appendix summarizes the changes to this document for each Xadmin release.

Roles, Users, and Security Access

Overview

This chapter provides information about creating user security roles and managing user access to Xadmin. The **User Roles** and **Users and Security Access** features provide the ability to create security roles and to grant privileges to users for one or more areas of Xadmin based on these roles.



Security Notes

Any users in an Org Node higher than the logged-on user will not be displayed in the Admin Users list. In addition, the logged-on user cannot add Org Nodes that are higher than the org nodes he/she is assigned to.

Security privileges are associated with Xadmin actions.

Xadmin Areas Controlled by Security

- Administration
- Configurator
- Data Manager
- Deployment Manager
- Home Page
- Reports
- Support

About this Chapter

This chapter contains the following sections:

- See [“User Roles” on page 11](#) for information about creating the roles used to determine user privileges in Xadmin. Access to different areas of Xadmin is controlled by assigning security Roles to the users.
- See [“Admin Users - Using Roles to Grant Access to Xadmin” on page 17](#) for instructions on creating new Xadmin User Accounts and controlling user access to Xadmin.



Refer to the Xstore Implementation Guide for information about using DataLoader to load Xadmin user accounts.

- See [“Editing Xadmin User Accounts” on page 19](#) for instructions on changing an existing user’s account privileges.
- See [“Password Options - Non LDAP” on page 21](#), [“Editing Xadmin User Accounts” on page 19](#), [“Passwords: Special Characters & Rules” on page 22](#) and [“Resetting a User’s Password” on page 24](#) for instructions on setting up, changing, or resetting a user’s password.



If using LDAP Authentication, refer to [“LDAP Authentication” on page 25](#). LDAP-managed users do not have the ability to manage their passwords from within Xadmin, or the ability to use password reset or password change functionality.

User Roles



The Role of ADMINISTRATOR is required. This role defaults to access for every privilege and has a rank of 150.

MICROS recommends that you set up at least one ADMINISTRATOR user. Once this administrator user has been set up, delete the initial (default) administrator user account for security purposes.

Access to different areas of Xadmin is controlled by assigning security Roles to the users. This section provides information about defining the user roles that will then be used to grant specific privileges to a user.

Creating/Editing User Roles

1. From the Xadmin menu, select **System** --> *Xadmin Users*, or click the [Xadmin Users](#) link in the **System** panel.
2. At the Xadmin Users page, click **User Roles**.

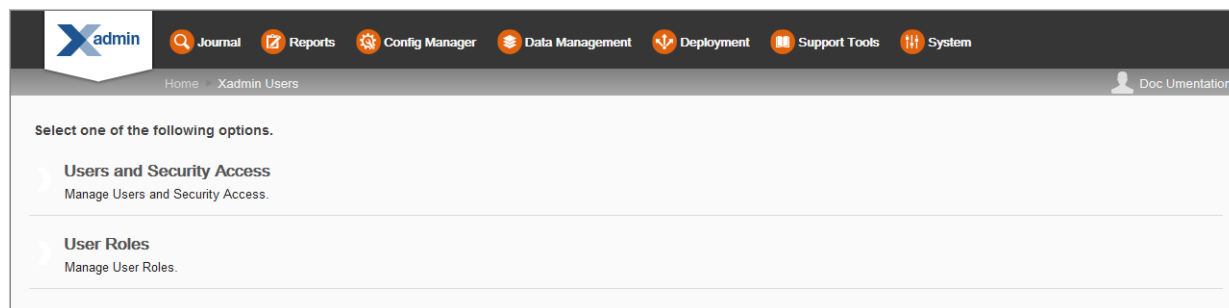


Figure 2-1: Xadmin Users Page

3. At the User Roles page, create a new User Role, edit an existing User Role, or delete an existing User Role:

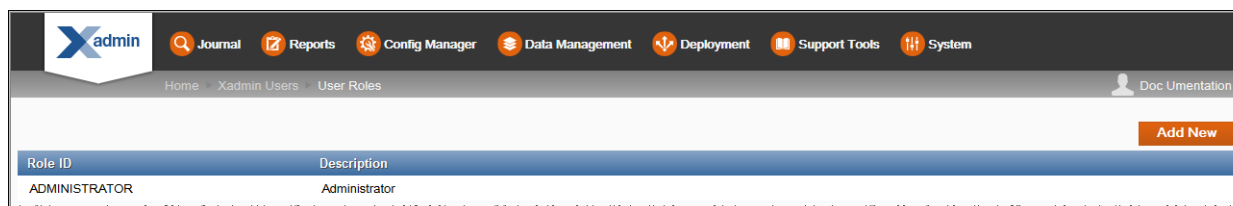


Figure 2-2: User Roles Page

- ☐ To create a new Role, click **Add New**. The User Roles window displays and the fields are blank.
 - ☐ To edit an existing User Role, select the Role from the list. The User Roles window displays and the fields are populated with the current Role information.
4. Complete the required fields. (All fields are required.)

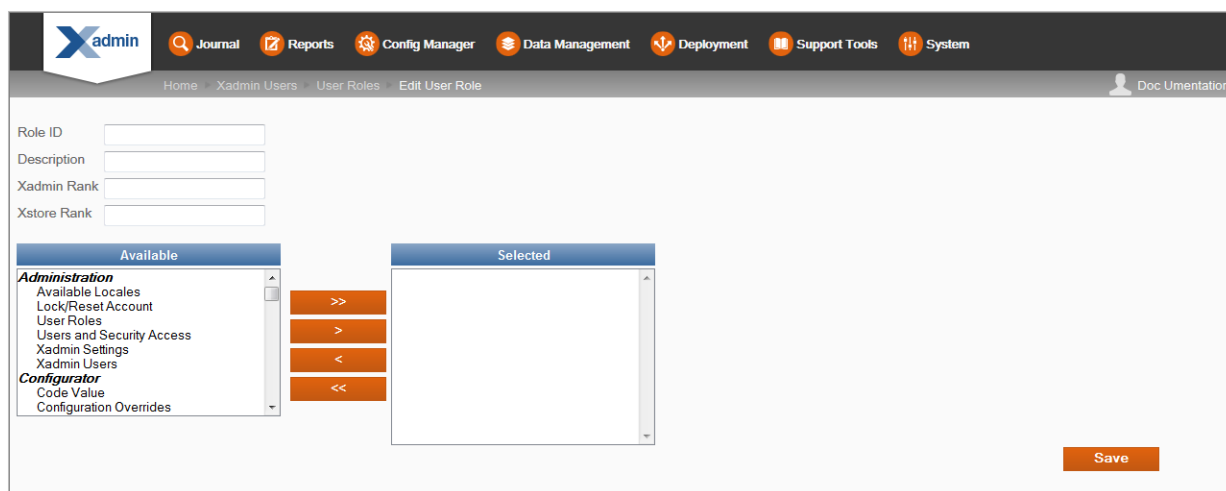


Figure 2-3: User Roles Window - Add New Role Example

- ❑ **Role ID** - Type the role identifier. Spaces and special characters are not allowed in this field. When editing an existing role, this field cannot be changed.
- ❑ **Description** - Type a description for the role.
- ❑ **Xadmin Rank** - Type a numeric rank number for Xadmin. This rank is evaluated when creating a new Xadmin user in *User and Security Access*. An Xadmin user cannot assign a role to a new user that has a greater numeric rank than his/her Xadmin rank. For example, a logged-in user with a rank role of 50 cannot edit or create a rank role of 51 and above.
- ❑ **Xstore Rank** - Type a numeric rank number for Xstore. This value is the rank associated to the user within the Xstore application and corresponds to the role the user holds within Xstore. This rank is evaluated when creating or editing an Xstore employee in *Data Manager -> Employees*. An Xadmin user cannot assign Xstore security groups to an employee that is ranked higher than his/her Xstore rank.
- ❑ **Privileges** - Select each role privilege from the list of *Available* options and click the arrow button to move the role or roles to the *Selected* window:

	Add all privileges		Remove selected privilege
	Add selected privilege		Remove all privileges

- To select several privileges at the same time, hold down the **[Ctrl]** key on the keyboard while selecting each privilege you want to assign to the role you are creating or editing. Click the single arrow button  to move the privileges from the *Available* window to the *Selected* window.
- You can also hold down the **[Shift]** key in the same manner to select all the privileges between the first privilege you select and the last privilege you select. Click the single arrow button  to move the privileges from the *Available* window to the *Selected* window.

5. Click **Save** to create or update the role.



A Delete option  is available for Roles you create. However, if a Role has been assigned to a user it cannot be deleted.

User Role "LP" is currently assigned to a user. You cannot delete this user role.

OK

About Privileges

The available privileges for Xadmin are grouped by category: [Administration](#), [Configurator](#), [DataManager](#), [DeploymentManager](#), [Home Page](#), [Reports](#), and [Support](#).

Notes: Make sure you set up Xadmin privileges properly.

- For example, in Deployment Manager, the Deployment Plan privileges for "View Deployment Plans" and "Create/Edit Deployment Plans" technically work together. If you just have View privilege, you can only view deployment plans (as expected). However, you must have both privileges (view and create) in order to Create or Edit.
- The same is true for the Configurator privileges. If you just have "Discounts" or "Menus" etc., you can't do anything. You must also have the "Configurator" privilege and the "Global Configurations" or "Configuration Overrides" privilege to be able to get to the Discounts/Menus/Receipts selection page.
- If a user does not have the privilege for a specific home page panel, then it will not be displayed when the user logs into Xadmin. There are six panels in the Xadmin base configuration, so there are six privileges available. Also, if the user has access to the home page panel itself, but not to any of the options contained within it, then the panel will not be displayed.

Administration

Table 2-1: Administration Security Privileges

Administration
Available Locales
Lock/Reset Account
User Roles
Users and Security Access
Xadmin Settings
Xadmin Users

Configurator**Table 2-2:** *Configurator Security Privileges*

Configurator		
Code Value	Menus	Store Personality Maintenance
Configuration Overrides	Personality Maintenance	Store Specific Overrides
Configurator	Profile Maintenance	System Config
Copy Store Configurations	Profile Management	Tab Configuration
Customer Displays	Reason Codes	Tender Maintenance
Delete Profile Element Configurations	Receipts	Tender Options Maintenance
Discounts	Schedule Deployment	Tender Security Settings
Global Configurations	Security	Tenders
Landscape Maintenance	Security Groups	
Menu Configuration	Security Privileges	

DataManager**Table 2-3:** *DataManager Security Privileges*

DataManager	
Attached Items	Organization Hierarchy Levels
Currency Exchange	Organization Hierarchy Maintenance
Data Manager	Store Collections
Data Manager Deployment	Store Communications
Data Publisher	Store Messages
Employee	Stores
Employee Tasks	Tax Authority
Item Matrix Manager	Tax Brackets
Item Pricing	Tax Elements
Items	Tax Group

Table 2-3: *DataManager Security Privileges (continued)*

DataManager	
Merchandise Hierarchy	Tax Location
Merchandise Items	Tax Rates
Non Merchandise Items	Taxes
Organization Hierarchy	Vendor

DeploymentManager**Table 2-4:** *DeploymentManager Security Privileges*

DeploymentManager	
Approve Deployment Wave	Schedule Planned Deployment
Cancel Deployment	Schedule Single Deployment
Create/Edit Deployment Plans	Unapprove Deployment Wave
File Deploy	View Deployment Plans
File Upload	View Deployments
Purge Deployment Files	

Home Page**Table 2-5:** *Home Page Panel Security Privileges*

Home Page	
Home Page Config Management Panel	Home Page Reports Panel
Home Page Data Management Panel	Home Page Support Panel
Home Page Deployment Panel	Home Page System Panel

Reports**Table 2-6:** *Reports Security Privileges*

Reports	
Airport Authority Report	No Sale Report
Best Sellers Item Report	Post Void Detail Report
Best Sellers Style Report	Post Void Summary Report
Credit Card Report	Price Change Report
Customer Account Activity Summary Report	Price Override Report
Customer List Report	Receiving Exception Report
Daily Sales Report	Receiving Report
Daily Sales Total Report	Returned Merchandise Report
Daily Sales and Cash Report	Sales By Hour Analysis Report
Electronic Journal	Sales By Hour Report
Employee Performance Report	Sales Department Employee Report
Employee Tasks Report	Sales Department Report
Flash Sales By Hour Report	Shipping Exception Report
Flash Sales Department Report	Special Orders Report
Flash Sales Employee Report	Stock Valuation Reports
Flash Sales Summary Report	Store Locations Report
Gift Certificate Report	Suspended Transaction Detail Report
Inventory Stock Cost Report	Suspended Transaction Summary Report
Item List Report	Tax Exemption Report
Journal Report	Transaction Cancel Detail Report
Layaway Account Activity Detail Report	Transaction Cancel Summary Report
Layaway Account Activity Summary Report	View Reports
Layaway Aging Detail Report	Worst Sellers Item Report
Layaway Aging Summary Report	Worst Sellers Style Report
Line Void Report	YearEnd Roll-Up Process

Support**Table 2-7:** *Support Security Privileges*

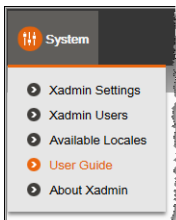
Support
Alert Console
Alert Settings
Deployed Xstore Versions
PosLog Publisher
Replication Status

Admin Users - Using Roles to Grant Access to Xadmin

Once you have created Roles, you can grant user access to Xadmin by assigning a Role—and its associated privileges—to the user.



Access to this Xadmin User Guide via the System menu is not controlled by role assignment and will be available for all users.



Creating New Xadmin User Accounts

Perform the following steps to grant other users access to Xadmin components. To change an existing user's account privileges, see ["Editing Xadmin User Accounts" on page 19](#).

1. From the Xadmin menu, select **System** --> *Xadmin Users*, or click the *Xadmin Users* link in the **System** panel.
2. At the Xadmin Users page, click **Users and Security Access**.

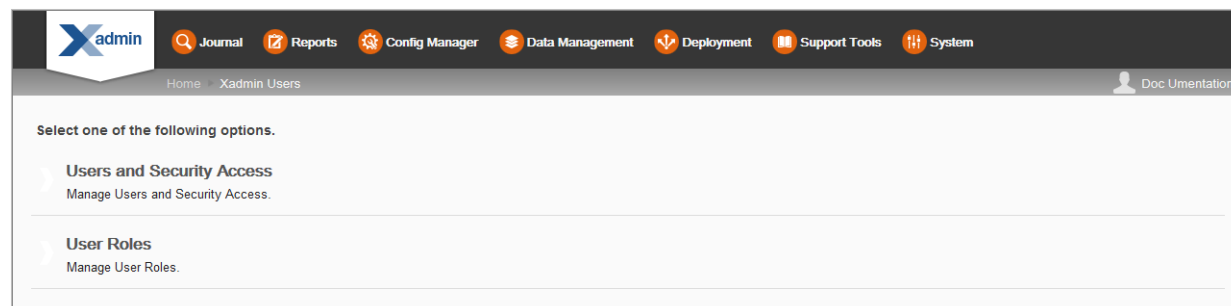
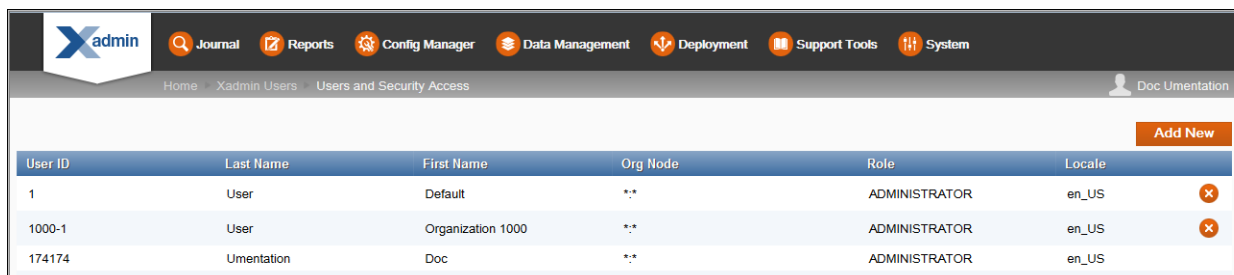


Figure 2-4: Xadmin Users Page

3. At the Users and Security Access page, click **Add New** to create a new user account.



User ID	Last Name	First Name	Org Node	Role	Locale
1	User	Default	**	ADMINISTRATOR	en_US
1000-1	User	Organization 1000	**	ADMINISTRATOR	en_US
174174	Umentation	Doc	**	ADMINISTRATOR	en_US

Figure 2-5: Users and Security Access Page



If there are more than 200 Xadmin users in your organization, a Search page displays rather than the employee list as shown in Figure 2-5 above. Click **Add New** to create a new user account.

4. Enter the information as required to grant security privileges for new users:

a. **User Id - REQUIRED**



The User Id Minimum Length is set in System-->Xadmin Settings -->User Account.

Note: Authentication Type is only available if LDAP authentication is enabled.

b. **Authentication Type** - If applicable, select the authentication type, **Internal** Xadmin directory or **LDAP** directory.



If using LDAP Authentication you are not prompted for password information. Also, password reset and password change functionality is not available. See ["LDAP Authentication" on page 25](#) for more information.

c. **First Name - REQUIRED**

d. **Last Name - REQUIRED**

e. **Password & Confirm Password - REQUIRED FOR MANUAL PASSWORD METHOD**
See ["Passwords: Special Characters & Rules" on page 22](#) for more information about password validation.



The Password and Confirm Password fields are not available if using the Static password method or the Algorithm method when creating new user accounts. See ["Password Options - Non LDAP" on page 21](#) for more information about static passwords and algorithm passwords.

f. **Security Role - REQUIRED** This list contains the roles defined for your organization. Only one security role may be assigned.

- g. **Locale** - This list contains the locales defined for your organization; defaults to English United States.
- h. **Email** - Enter the user's email address, if applicable.
- i. **Account Locked** check box - After a configurable number of consecutive unsuccessful login attempts, the user's account will be automatically flagged as locked and the user cannot access the system until you reset the lock flag here. You can also select this check box to lock a user out of the system. This functionality is not available for LDAP users.  **Account Locked?**
- j. **Organization Nodes** - **REQUIRED**
 - 1) Click the  icon to see the nodes defined for your organization. Select which nodes/stores the user will have access to, then click **Add**.
A user can have access to multiple Org Nodes; however, the nodes cannot overlap.
 - 2) The nodes you selected are shown, along with a **Delete** option you can use if you need to remove access to an Org Node for the user.



5. Click the **Save** button to create the new user account.

The new user account is added to the list of Xadmin Users. When the new user logs in to Xadmin, only the components for which the user has been granted access will be active on the Xadmin menu and panel links.

Editing Xadmin User Accounts

1. From the Xadmin menu, select **System --> Xadmin Users**, or click the [Xadmin Users](#) link in the **System** panel.
2. At the Xadmin Users page, click **Users and Security Access**.

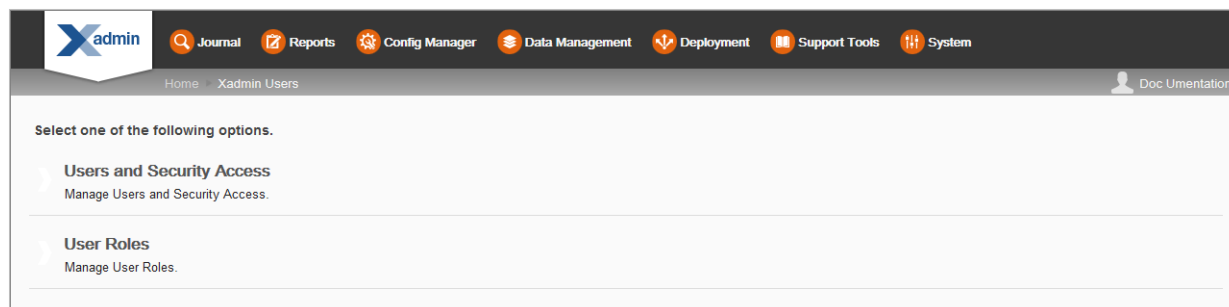
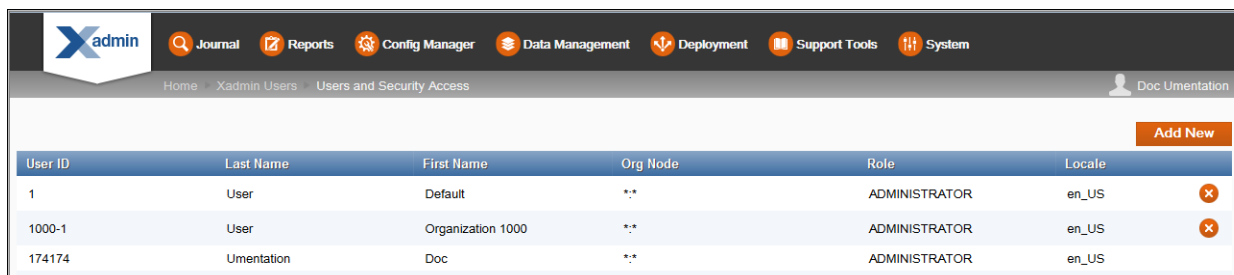


Figure 2-6: Xadmin Users Page

3. At the Users and Security Access page, select a user account from the list.



User ID	Last Name	First Name	Org Node	Role	Locale	
1	User	Default	**	ADMINISTRATOR	en_US	✕
1000-1	User	Organization 1000	**	ADMINISTRATOR	en_US	✕
174174	Umentation	Doc	**	ADMINISTRATOR	en_US	

Figure 2-7: Users and Security Access Page



If there are less than 200 Xadmin users in your organization, the list of users will be shown automatically without requiring a search. Otherwise, enter search criteria to find an Xadmin user account.



A Delete option ✕ is available to allow you to remove an Xadmin user account. If selected, you will be prompted to confirm the user account should be deleted. Always make sure at least one user has access to the ADMINISTRATOR role before deleting user accounts.

4. The Edit User page provides the fields that can be edited for the selected user account. Refer to step [4 on page 18](#) for more information about the fields.

Notes: About editing the fields

- The **User Id** cannot be changed.
- The **Authentication Type** cannot be changed after setup.
- When editing existing users, a **Reset Password** option is available for static and algorithm password methods. See ["Resetting a User's Password" on page 24](#).
- If you changed the **Security Role** setting, the user's access to Xadmin components is updated accordingly. When the user logs in to Xadmin, only the components for which the user has been granted access will be active on the Xadmin menu and panel links.

5. Click **Save** to apply the changes to the user's account.

Password Options - Non LDAP

There are three options for creating passwords for new users and/or users that request a password reset. These configuration options are set in Xadmin Settings. See ["Xadmin Configuration" on page 27](#) for more information about setting up password options.

- **Manual Setup** - Using this option, the administrator creates each password and then communicates it to the user. When creating a new user, the Password text box must be populated with a password that meets the standards set by other Xadmin password configurations defined in Xadmin Settings, User Accounts section.
- **Static Passwords** - Using this option, the administrator first sets up a static (universal) password within Xadmin Settings for all new users, for example "A@23456". This static password will be temporarily used by new Xadmin users, and users that have requested a password reset. A Password text box is not needed on the Edit User page since a static password is used for all new users. The Xadmin user will be prompted to change this password the first time he/she logs into the system.
- **Auto-generated Password Via Algorithm** - Using this option, the password is created automatically for the user based on a predetermined algorithm. The algorithm contains aspects of the user profile that can be communicated easily. The algorithm currently used is as follows:
 - The first letter of the user's first name (upper case).
 - The first letter of the user's last name (lower case).
 - The @ symbol.
 - The month and year in which the user record is created (when the password is requested) in MMYYYY format.

The Xadmin user will be prompted to change this password the first time he/she logs into the system.

Passwords: Special Characters & Rules

Valid password special characters

!	exclamation point
#	pound or number sign
\$	dollar
%	percent
&	ampersand
(	open parenthesis
)	close parenthesis
*	asterisk
-	minus or hyphen
=	equal
?	question mark
@	at
[	open bracket
]	close bracket
^	carat
_	underscore
{	open brace
}	close brace
	pipe or bar
~	tilde
+	plus

Invalid password special characters

'	apostrophe or single quote
`	back quote
\	back slash
:	colon
,	comma
>	greater than
<	less than
.	period
"	quote
;	semi-colon
/	slash or forward slash

Password & User ID Configuration

Password & User ID settings are configured in **System -> Xadmin Settings**, *User Account* category. These settings include the following:

Method of Creating Password for New Users - The method used to create the password for newly added users. See ["Password Options - Non LDAP" on page 21](#) for more information about the three options available.

Number of Capital Letters Required for a Password - The minimum number of capital letters that should appear in a password. The minimum number is zero (0).

Number of Changes Before a Password Can Be Reused - The number of password resets within which associates are not allowed to reuse the same password. For example, setting the value to 12 ensures a user's new password cannot match any of his/her 12 previous passwords. A setting of zero (0) means that the same password can always be reused.

Number of Consecutive Characters Allowed in a Password - The maximum number of times that any given symbol or character can repeat consecutively within the password string. The minimum number is one (1).

Number of Login Attempts Before Account Is Locked - The number of times an invalid password can be entered before the account is locked. The minimum number is one (1).

Number of Numbers Required for a Password - The minimum number of digits that should appear in a password (accepted values = 0-9). The minimum number is zero (0).

Number of Special Characters Required for a Password - The minimum number of special characters that should appear in a password. The minimum number allowed is zero (0). See ["Passwords: Special Characters & Rules" on page 22](#) for a list of valid special characters.

Password Expiration Days - The number of days that a password can be used before it expires. If a user successfully logs into Xadmin (enters valid user name and password), but the password is older than the configured number of days, the user will be rerouted to the Change Password screen and will not be able to access the system until the password has been successfully changed.

Password Length - The minimum length of a password. If a value of 1 is set, passwords have no minimum length, but cannot be empty/blank.

User ID Length - The minimum number of characters that must be used in order for a user ID to be valid.

See [Chapter 3, "System Settings" on page 26](#) for more information about the password configuration options.

Additional Password Requirements

- A user's password cannot be the same as his/her user ID.
- Passwords cannot contain null or "whitespace" characters (space, tab, carriage return, \0, etc.). Note that leading or trailing null and whitespace characters are silently trimmed by the UI automatically.

Resetting a User's Password

Use the **Reset Password** function to manually reset user passwords when needed. This option is available with Static and Algorithm password generation methods only.



If Xadmin is configured for Manual password generation, simply change the password in the Password field on the Edit User page:

- ☐ *If you reset your own password, it will not be marked as temporary in Xadmin.*
- ☐ *If you (the administrator) manually reset another user's password, it will be marked as temporary in Xadmin and the user must change it during the next login.*

1. From the Xadmin menu, select **System --> Xadmin Users**, or click the Xadmin Users link in the **System** panel.
2. At the Xadmin Users page, click **Users and Security Access**.
3. At the Users and Security Access page, select a user account from the list.
4. Click the Reset Password link. ☐ Account Locked? [Reset Password](#)
5. When prompted, verify the user account and email address are correct, then click **Yes** to continue.



*If the user does not have an email address on record, you will be prompted whether or not to continue. Click **No** to return to the Edit User page and enter an email address, or click **Yes** to continue without generating an email for the user.*

6. The password is reset based on the configured password method, either the static (universal) password or the algorithm password.
7. An email is generated and sent to the Xadmin user with the details.

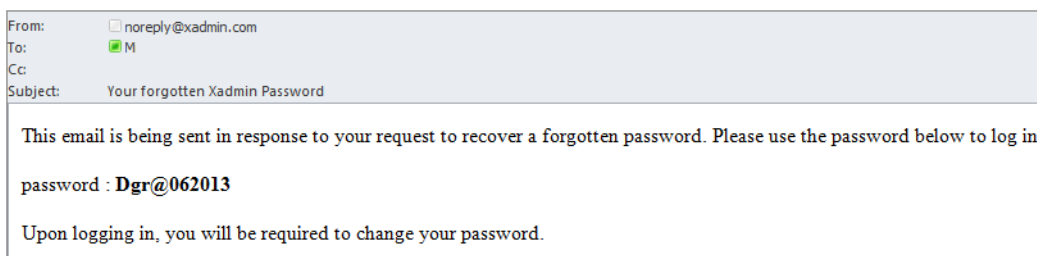


Figure 2-8: Password Reset Email Example

LDAP Authentication

LDAP Authentication allows users to log into Xadmin using a "single sign-on" where one password for a user is shared between many services. This feature uses LDAP (Lightweight Directory Access Protocol) and Microsoft's AD (Active Directory) repository to manage the user Id and password access to the application.



LDAP is used for authentication to Xadmin, but the user information must be set up in the Xadmin database for the users to access the application.

Assumptions and Requirements for LDAP Users

- LDAP-managed users do not have the ability to manage their passwords from within Xadmin, or the ability to use password reset or password change functionality.
- A single LDAP server must be configured for the Xadmin instance. Multiple LDAP authentication servers are not supported.
- Account locking (for example, after "X" login attempts) and unlocking is not available through Xadmin. It may be available through the LDAP server.

Xadmin LDAP Settings

LDAP Authentication settings are configured in **System -> Xadmin Settings**, *User Account* category.

Default Domain Name for LDAP - The default domain name to be used when authenticating users using LDAP.

Enable LDAP Authentication Option? - The configuration used to enable Xadmin to authenticate users using LDAP directory.

LDAP Provider URL - The URL to be used to connect to LDAP server.

System Settings

Overview

The **System** component has many features used to manage the Xadmin application itself, including setting up the system configuration rules and paths, setting up the available locales within Xadmin, viewing Xadmin version information, and setting up Xadmin users and user roles.

About this Chapter

- For information about the Xadmin system configuration feature, see [“Xadmin Configuration” on page 27](#). This section provides detailed information about setting configuration parameters for the Xadmin application itself.
- For information about controlling the available locales within the Xadmin application itself, see [“Available Locales” on page 32](#). These changes are not sent down to Xstore.
- For information about the Xadmin version the system is currently running on, see [“Version Display” on page 33](#).

Where To Look For User Settings Information:

- For information about the **Users and Security Access** component, see [Chapter 2, “Roles, Users, and Security Access” on page 9](#). This component provides the ability to grant privileges to users for one or more areas of Xadmin as needed based on security Roles.
- For information about the **User Roles** component, see [Chapter 2, “Roles, Users, and Security Access” on page 9](#). This component provides the ability to create the security roles that are used to control access to the various areas of Xadmin.

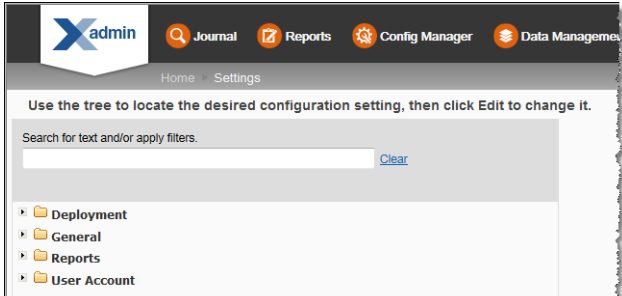
Xadmin Configuration

Xadmin Configuration provides the ability to set up the configuration options that govern how Xadmin works. You cannot add or delete Xadmin configuration options.

1. From the Xadmin menu, select **System** --> *Xadmin Settings*, or click the *Xadmin Settings* link in the **System** panel.
2. The Settings page displays, showing the configuration options available for Xadmin. The configuration options are arranged by category, in a tree view. Edit the values as needed, then click the **Save** button to save the changes.



To find configurations containing specific text, enter the search text in the input box, then press [Enter]. The text typed here can be found anywhere within the configuration label or description. The results are shown in the left panel (folder tree). Only those configurations containing the specified text within the label and/or description are displayed. If needed, click "Clear" to remove the search criteria and return to the Xadmin Configuration page.



See [Xadmin Configuration Options](#) below for detailed information about the Xadmin configuration options.

Xadmin Configuration Options

Deployment Category

■ Automatically Deploy Data Manager Changes?

If set to true, Xadmin automatically deploys pending Data Manager changes at a specified time each day. The time of day is determined by the [Data Manager Automatic Deployment Time](#) setting.

■ Data Manager Automatic Deployment Time

The time of the day to start the auto deployment of undeployed Data Manager changes. The time should be in the format of HH:MM using the 24 hr clock. This setting is only relevant when the [Automatically Deploy Data Manager Changes?](#) setting is enabled.

■ Deployment Download Connection Timeout

The amount of time, in seconds, that Xenvironment will spend attempting to connect to Xcenter to download a deployment. Once the time has elapsed with no connection detected, the attempt will be considered a failure. This setting is used by Xenvironment at the store.

■ Deployment Download Retries

The number of times Xenvironment will attempt to download updates from Xadmin before failing. The default value is 10 attempts. A setting of zero (0) means never retry, which is not recommended. This setting is used by Xenvironment at the store.

■ Deployment Download Retry Interval

The time interval, in seconds, that Xenvironment will wait after a failed deployment download attempt before it tries to download the deployment again. This setting is used by Xenvironment at the store.

■ Detection Interval for Automatically Deployed Data Files

How often (in milliseconds) the system checks the [Directory for Automatically Deployed Data Files](#) to be deployed automatically to all stores.

■ Directory for Automatically Deployed Data Files

The directory into which DataLoader files can be placed for automatic deployment. DataLoader files placed in this directory will be automatically detected by Xadmin and will be deployed to the appropriate stores that are identified within the file.

■ Enable Automatic Deployment of Data Files?

If set to true (default), Xadmin automatically detects and deploys DataLoader files. Files are placed in the directory specified by the [Directory for Automatically Deployed Data Files](#) configuration setting. This directory is checked on a repeating interval determined by the [Detection Interval for Automatically Deployed Data Files](#) configuration setting. Once found, the file will be scheduled for deployment based on the information contained within it.

■ Interval for Checking for Deployment Waves That Require Approval

The time interval, in minutes, for running the Wave Approval email service. The default value is 60 minutes. For example, if set to 60 minutes, the service will run every hour to scan for new waves and send emails. An email will be sent for waves that meet the [Number of Days Before Deployment Wave to Send Notification](#) requirement.

■ Number of Days Before Deployment Wave to Send Notification

The number of days prior to the projected launch date of a wave with a launch type of "Approval Required" that an email notification goes out. Valid values are from 1 to 365. The default value is 3 days.

■ Number of Records in Deployment Viewer

The maximum number of Deployment records to display per page in the Deployment Viewer.

General Category

■ Beginning Time of the Business Day

To support alert reporting, this is the time—in hours from 00:00 GMT—that denotes the corporate start time of the business day. (For example, 5 is 05:00 GMT).

■ Default Deposit Bank Account Number

When creating a new store, this is the default deposit bank account number.

■ Default Deposit Bank Name

When creating a new store, this is the default deposit bank name.

■ Delete FIFO data after report generation?

When enabled (true), FIFO data is deleted after a FIFO report is generated.

■ Enable the Option to Create Store-Specific Configurations?

When enabled (true), users have the ability to create or override configurations for a specific store in Configurator. See ["Configurator"](#), ["Managing Configurations" on page 52](#).

■ Enable the Option to Delete Configurations?

When enabled (true), configurations for profile or store-specific overrides can be deleted in Configurator. If set to false, all access to this functionality is disabled within Xadmin, regardless of the privileges.

■ File Upload Directory

The directory in which files are stored that are uploaded by users via the File Upload feature.

■ Interval for Checking for Missing Registers

How frequently Xcenter checks for missing registers, in minutes. The default value is 15 minutes. The value of this setting should be less than the [Time Before Register Is Considered Missing](#) setting.

■ Number of Records in POSLog Publisher Result Page

The maximum number of POSLog records displayed per page on the POSLog publisher result page. The minimum value allowed is 1.

■ POSLog Publish Max Search Results

The maximum number of POSLog records returned from the database for republishing.

■ Published POSLog Directory

The directory where the published PosLog file will be saved.

■ Time Before Missing Register Is Ignored

Once a device has been missing for the amount of time specified here (in hours), it is no longer reported as a problem. The default value is 72 hours.

■ Time Before Register Is Considered Missing

The amount of time—in minutes—that must elapse since a register's last check-in before it is considered missing. The default value is 61 minutes.

■ Use Till Based Accountability?

When creating a new store, this option determines whether Till Accountability mode or Register Accountability mode is used as the default setting.

Reports Category

■ **Default Report Output Format.**

The report output format to be used as the default type when running reports. Valid values include:

- ☐ **PDF** (Portable Document Format)
- ☐ **HTML** (Hyper Text Markup Language)
- ☐ **CSV** (Comma-Separated Values)
- ☐ **XLS** (Spreadsheet file format created by Microsoft for use with MS Excel)
- ☐ **XLSX** (MS Excel 2007 or newer)
- ☐ **PPTX** (MS PowerPoint)
- ☐ **RTF** (Rich Text Format)
- ☐ **DOCX** (Microsoft Office Open XML Format Document)

■ **Enable CSV (Comma-Separated Values) as a Report Output Format?**

If true, reports can be produced in CSV format.

■ **Enable DOCX (MS Word) as a Report Output Format?**

If true, reports can be produced in DOCX format.

■ **Enable HTML (Hyper Text Markup Language) as a Report Output Format?**

If true, reports can be produced in HTML format.

■ **Enable PDF (Portable Document Format) as a Report Output Format?**

If true, reports can be produced in PDF format.

■ **Enable PPTX (MS PowerPoint) as a Report Output Format?**

If true, reports can be produced in PPTX format.

■ **Enable RTF (Rich Text Format) as a Report Output Format?**

If true, reports can be produced in RTF format.

■ **Enable XLS (MS Excel) as a Report Output Format?**

If true, reports can be produced in XLS format.

■ **Enable XLSX (MS Excel 2007 or Newer) as a Report Output Format?**

If true, reports can be produced in XLSX format.

User Account Category

■ **Default Domain Name for LDAP.**

The default domain name to be used when authenticating users using LDAP.

■ **Enable LDAP Authentication Option?**

If set to Yes, enables Xadmin to authenticate users using LDAP directory. This is the global on/off switch.

■ LDAP Provider URL.

The URL to be used to connect to the LDAP server.

■ Method of Creating Password for New Users.

The method used to create the password for newly added users. See ["Password Options - Non LDAP" on page 21](#) for more information about the three options available.

■ Number of Capital Letters Required for a Password.

The minimum number of capital letters that should appear in a password. The default value is 1. The minimum number is zero (0).

■ Number of Changes Before a Password Can Be Reused.

The number of password resets within which associates are not allowed to reuse the same password. For example, setting the value to 12 ensures a user's new password cannot match any of his/her 12 previous passwords. A setting of zero (0) means that the same password can always be reused.

■ Number of Consecutive Characters Allowed in a Password.

The maximum number of times that any given symbol or character can repeat consecutively within the password string. The default value is 2.

■ Number of Login Attempts Before Account Is Locked.

The number of times an invalid password can be entered before the Xadmin user account is locked.

■ Number of Numbers Required for a Password.

The minimum number of digits that should appear in a password (accepted values = 0-9). The minimum number is zero (0). The default value is 1.

■ Number of Special Characters Required for a Password.

The minimum number of special characters that should appear in a password. The default value is 1 special character. See ["Passwords: Special Characters & Rules" on page 22](#) for a list of valid special characters.

■ Password Expiration Days.

The number of days that a password can be used before it expires. The default value is 90 days.

■ Password Length.

The minimum length of a password. The default value is 8. **Note:** If this value is set to less than 1, passwords have no minimum length, but cannot be empty/blank.

■ User ID Length.

The minimum number of characters in an Xadmin user ID. Valid values are 1 through 30.

Available Locales



This feature is only available from the Xadmin System menu, not from the Home Page panel.

This feature controls the available locales within the Xadmin application itself.

1. From the Xadmin menu, select **System --> Available Locales**.
2. The Available Locales page displays. Add a new locale, make changes to an existing locale, or delete a locale:

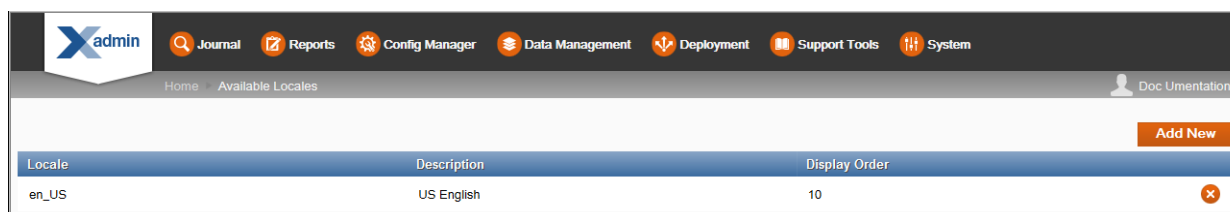


Figure 3-1: Available Locales Page

- ☐ To add a new locale, click the **Add New** button.
- ☐ To make changes to an existing locale, click on an existing locale from the list.
- ☐ To delete a locale, click the **Delete** icon associated with the locale. If selected, you will be prompted to confirm the locale should be deleted. Any locale currently assigned to a user record cannot be deleted.



A sorting component is available for columns, when applicable.

3. Complete the fields as required when adding or editing a locale:
 - ☐ **Locale** - Select a locale from the drop-down list. The locale cannot be changed in edit mode.
 - ☐ **Display Order** - Enter the display order for the locale.
4. Click the **Save** button.

Where Locale Is Used

If more than one available locale has been defined in Xadmin, certain fields in **Configuration Manager** and **Data Management** will allow the user to enter a translation for any language. This action creates *com_translations* records that will be sent down to stores, along with the configuration data.

Version Display



This feature is only available from the Xadmin System menu, not from the Home Page panel.

Use this feature to view the Xadmin version the system is currently running on. This is a view-only window.



To view the versions of Xstore running in the field, see [Chapter 10, "Support Tools" on page 235](#).

1. From the Xadmin menu, select **System --> About Xadmin**.

The About Xadmin window displays:

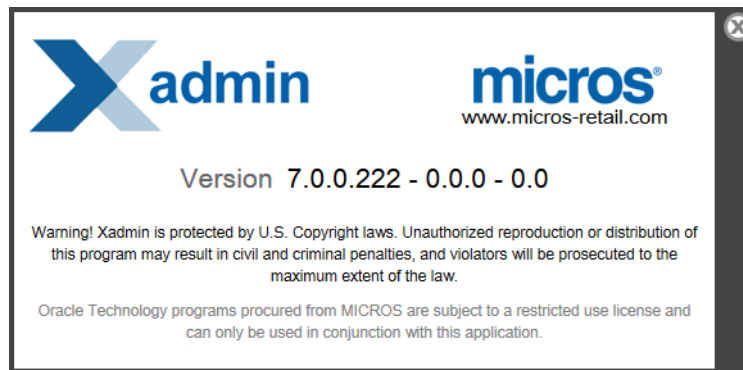


Figure 3-2: About Xadmin Window

The following information is shown on this window:

- The application version number
- Copyright information
- Oracle license information

2. Click  to close the window.

Profile Management

Overview

The goal of the **Profile Management** component of Configuration Manager is to define “Store Personalities” for your organization. The Store Personalities allow you to easily maintain portions of your configuration paths using a GUI format in Xadmin. Behind the scenes, these Store Personalities are translated into the various configuration paths specified in `configPath.properties`.

Configuration Path Overview

The configuration paths in `configPath.properties` specify a list of one or more configuration directories to be searched when a property configuration file is needed.

This functionality is controlled by a configuration option in `system.properties`:

```
dtv.update.configpath.from.Xcenter=true
```

- ❑ If configured to use this functionality (true), Xstore will poll Xcenter at startup to determine if any changes were made to the config path (`dtv.config.path` and `dtv.base.config.path`) properties. If a configuration path has changed, it will be updated in `configPath.properties` and loaded during the startup process.
- ❑ If this configuration is set to false, Xstore will not check Xcenter for updates. However, the config path can be set manually.



The Configurator component of Configuration Manager is used to create, maintain, and deploy Xstore configuration changes selectively, or globally across the entire organization. Refer to Chapter 5, “Configurator” on page 39 for more information about making configuration changes and deploying the information to your stores.

About this Chapter

Profile Management includes functions for creating and maintaining profile groups and elements for stores and registers, creating and maintaining the personalities that determine the prioritized profile elements for configuration overrides, and creating and maintaining the store landscapes used for machine (register) configurations. After setting up this information, you can assign Store Personalities to your stores.

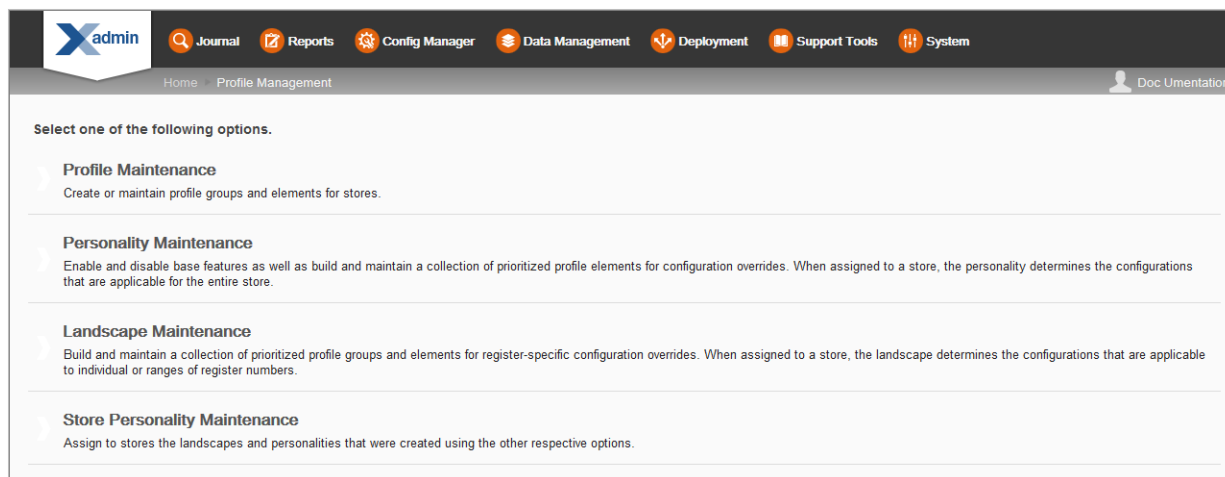


Figure 4-1: Profile Management Page

Setup Overview

1. First, create **Profile Groups** and their associated **Elements**. Follow the steps outlined in ["Profile Maintenance" on page 36](#) to set up and maintain the Profile Groups.
2. Next, after creating the Profile Group and Element combinations, set up your **Personalities** and **Landscapes**.
 - ❑ A **Personality** is a grouping of at least one or many Profile Group and Element combinations in an ordered list that work together to define a store. For example, using the Profile Groups and Elements you set up previously (step 1 above), you can identify a personality as being "Canadian, Banner, Outlet", in addition to another personality defined as "US, Banner, Flagship, Retail", and so on.
 - ❑ A **Landscape** is a collection of prioritized profile groups and elements for register-specific configuration overrides. When assigned to a store, the landscape determines the configurations that are applicable to individual register numbers or ranges of register numbers (for example, "22 - Managers Terminal", "44 - Lead Register", etc.).

Follow the steps outlined in ["Personality Maintenance" on page 40](#) and ["Landscape Maintenance" on page 43](#) to create Personalities and Landscapes.
3. Finally, set up each **Store Personality** by assigning the Personalities and Landscapes you created (step 2 above) to your stores. Follow the steps outlined in ["Store Personality Maintenance" on page 47](#) to create Store Personalities.

Summary

- The Profile Groups/Elements you create (step 1) will be used to set up *Personalities* and *Landscapes*.
- The Personality/Landscape pairs (step 2) will then be used to create a *Store Personality* (step 3).

Profile Maintenance

Setting Up Profile Groups & Elements

The profiles you set up here will be available as configuration scope overrides for Personality and Landscape group types in the Configurator component, providing the ability to deploy configurations that will override the global layer for specific locations as defined by the Store Personality. Refer to [Chapter 5, “Configurator” on page 50](#) for more information about the Configurator component.

Notes: Profile **Groups** are used to associate configuration overrides with specific Profile **Elements**.

- A **Profile Group** is simply a collection of configuration elements by type; for example Location, Register Type, Store Type, etc.
 - A **Profile Element** is the child property associated with the Profile Group; for example, Location= Ohio, California, Iowa, etc.
1. From the Xadmin menu, select **Config Manager** --> *Profile Management*, or click the [Profile Management](#) link in the **Configuration Manager** panel.
 2. From the Profile Management page ([Figure 4-1 on page 35](#)), select **Profile Maintenance**.
 3. The Profile Maintenance page displays. Click **Add** to create a new Profile Group.

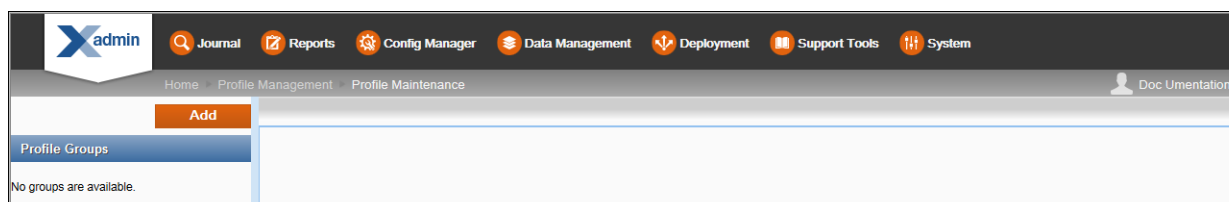
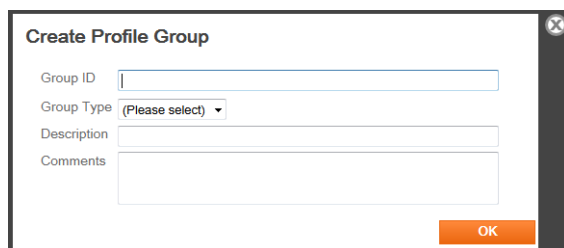


Figure 4-2: Profile Maintenance Page

4. At the Create Profile Group window, enter the information required to create a new Profile Group:



The 'Create Profile Group' dialog box contains the following fields:

- Group ID:** A text input field.
- Group Type:** A dropdown menu with the text '(Please select)'.
- Description:** A text input field.
- Comments:** A larger text input area.
- OK:** An orange button at the bottom right.

Figure 4-3: Create Profile Group Window

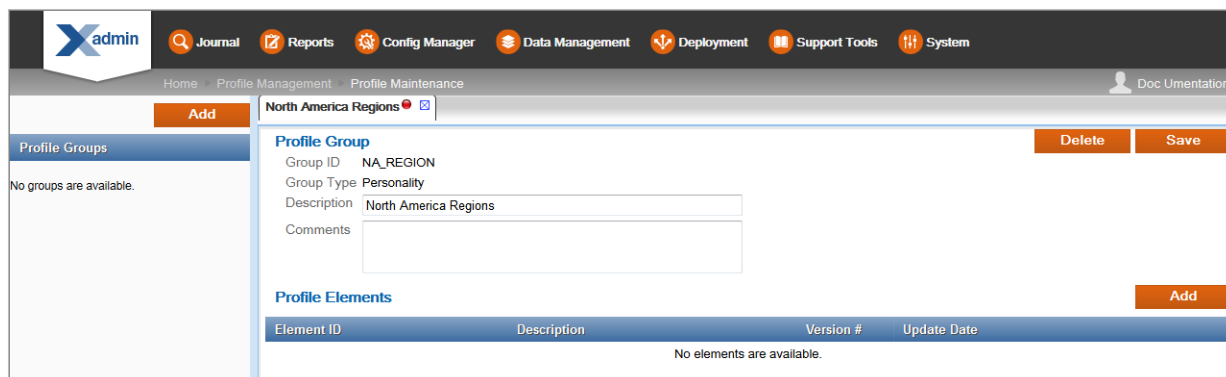
- a. **Group ID** - The profile group identifier. Spaces are not allowed here.
- b. **Group Type** - The type of profile group: Personality or Landscape.

The Group Type selected here determines where the Profile Group will be available for selection when setting up Personalities and Landscapes. Landscape profile groups will only be available for Menu Configuration and System Configuration overrides.

- c. **Description** - The profile group description.
- d. **Comments** - [OPTIONAL] A comment associated with the Profile Group.

5. Click **OK**.

The Profile Maintenance window displays the new Profile Group information you added.



The 'Profile Maintenance' window shows the following details:

- Navigation Bar:** Includes links for Journal, Reports, Config Manager, Data Management, Deployment, Support Tools, and System.
- Breadcrumbs:** Home > Profile Management > Profile Maintenance.
- Left Sidebar:** 'Profile Groups' section with an 'Add' button and a message 'No groups are available.'
- Main Content Area:**
 - Profile Group:** Displays 'North America Regions' with a red icon. Fields show Group ID: NA_REGION, Group Type: Personality, Description: North America Regions, and an empty Comments field. Buttons for 'Delete' and 'Save' are present.
 - Profile Elements:** A table with columns 'Element ID', 'Description', 'Version #', and 'Update Date'. It shows 'No elements are available.' and an 'Add' button.

Figure 4-4: Profile Maintenance Window - Populated

Notes: About this screen

- The red icon in the tab indicates this Profile Group has not been saved.
- To close the tab, click the close icon . You will be prompted if there are unsaved changes.
- To delete this Profile Group, click **Delete**. You will be prompted to confirm the deletion.

- If a Profile Group (and its Elements) is being used by a Personality or Landscape, it cannot be deleted.

The profile group "Keyboard Type" cannot be deleted because it is assigned to a Landscape.

OK

6. Click **Save** to save the Profile Group to the Profile Group list, or continue with step 7 below before saving.
7. Click **Add** in the **Profile Elements** section of the window (Figure 4-4) to add elements to this Profile Group.
8. At the Create Profile Element window, enter the information required to create a new Profile Element for the Profile Group:

Create Profile Element

Element ID

Description

Comments

OK

Figure 4-5: Create Profile Element Window

- a. **Element ID** - The element identifier. (**Note:** Spaces are not allowed here.)
 - b. **Description** - The element description.
 - c. **Comments** - [**OPTIONAL**] A comment associated with the Profile Element.
9. Click **OK**.
 10. Repeat steps 7 through 9 to add additional Elements to the Profile Group.
 11. When all Elements have been associated with the Profile Group, click **Save**.

Xadmin | Journal | Reports | Config Manager | Data Management | Deployment | Support Tools | System

Home > Profile Management > Profile Maintenance

Doc Umentation

Profile Groups

Add

North America Regions

Profile Group

Group ID: NA_REGION

Group Type: Personality

Description: North America Regions

Comments:

Delete Save

Profile Elements

Add

Element ID	Description	Version #	Update Date	
EAST	East Region	1	Apr 24, 2014 2:03:57 PM	✕
NORTH	North Region	1	Apr 24, 2014 2:03:34 PM	✕
SOUTH	South Region	1	Apr 24, 2014 2:03:46 PM	✕
WEST	West Region	1	Apr 24, 2014 2:04:08 PM	✕

Figure 4-6: Profile Group and Elements - Before Saving Example

The **Profile Group** created here will now be available in the Overrides feature in [Personality Maintenance](#) and [Landscape Maintenance](#) sections of Profile Maintenance where applicable for the group type. (See [Figure 4-1, "Profile Management Page," on page 35.](#))



Delete Options:

- ☐ If you need to delete the Profile Group and all the associated Elements, click the **Delete** button.
- ☐ If you need to delete an Element, click the Delete icon .

You will be prompted to confirm your selection.

If a Profile Group (and its Elements) is being used by a Personality or Landscape, it cannot be deleted.

Profile Group and Element Versioning

The version number is shown on the Profile Maintenance page for the Profile Group and Element (Figure 4-6). This value will be increased by one each time the Profile Group/Element is deployed, or scheduled for deployment, with a new set of configurations.

Notes: About Profile Group and Element versioning:

- The version number is not increased until the configuration is deployed (or scheduled for deployment). Editing an existing profile element does not increment the version number.
- Rollback is not available at this time.
- Audit logging includes who, when, and in which version the change was made.

See also: [Chapter 5, "Configurator" on page 50.](#)

Personality Maintenance

Use Personality Maintenance to group one or many Profile Group and Element combinations that will be used to define a store.

1. From the Xadmin menu, select **Config Manager** --> *Profile Management*, or click the [Profile Management](#) link in the **Configuration Manager** panel.
2. From the Profile Management page ([Figure 4-1 on page 35](#)), select **Personality Maintenance**.
3. At the Personality Maintenance page, add a new Personality or edit an existing one:

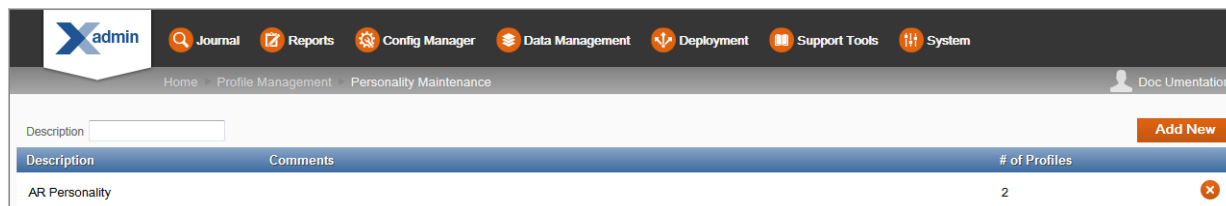


Figure 4-7: Personality Maintenance Page



To quickly find a Personality, enter text in the Description field. The list will be filtered to show the Personalities with the text in their descriptions.

If adding a new Personality:

- a. Click **Add New**.
- b. At the Edit Personality page, use the wizard to complete the information on each tab, then click **Next**. See ["Personality Setup Options" on page 42](#) for a list of Personality options.
- c. Skip to step 4 to review your selections.

If editing an existing Personality:

- a. Select the Personality in the list.
- b. At the Personality Detail window, click **Edit**.
- c. Complete the fields as required, then click **Next**. See ["Personality Setup Options" on page 42](#) for a list of Personality options.
- d. Continue with step 4 to review your selections.

4. Review the Personality options you selected:

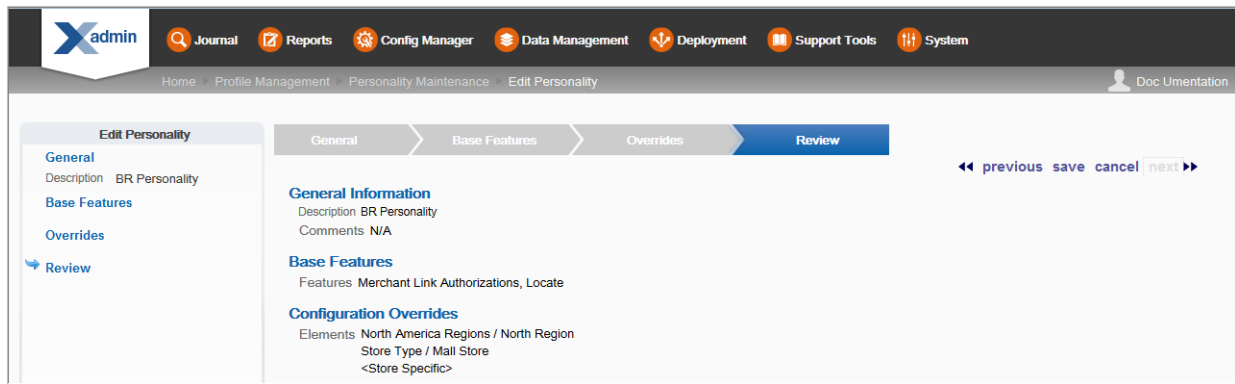
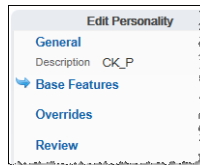


Figure 4-8: Personality Options Review

- ☐ To save the Personality, click **save**. The Personality is added to the list on the Personality Maintenance page.
- ☐ To edit the Personality:
 - ☐ Click **previous** to go back one page **<< previous save cancel next >>** , or



select a configuration option in the Edit Personality section in the left panel of the window.

After making your changes, click **save**. The new Personality is added to the list on the Personality Maintenance page.

- ☐ To discard the Personality, click **cancel**. When prompted, click **Yes** to confirm you want to cancel Personality setup.
5. After completing Personality setup, Xadmin returns to the Personality Maintenance page.



To delete a Personality that has been created or updated, click the Delete icon  associated with the Personality on the Personality Maintenance page.

When prompted, click Yes to confirm the deletion.

If a Personality has been assigned to a Store, it cannot be deleted.

The personality "DG" cannot be deleted because it is assigned to a store.

OK

Personality Setup Options

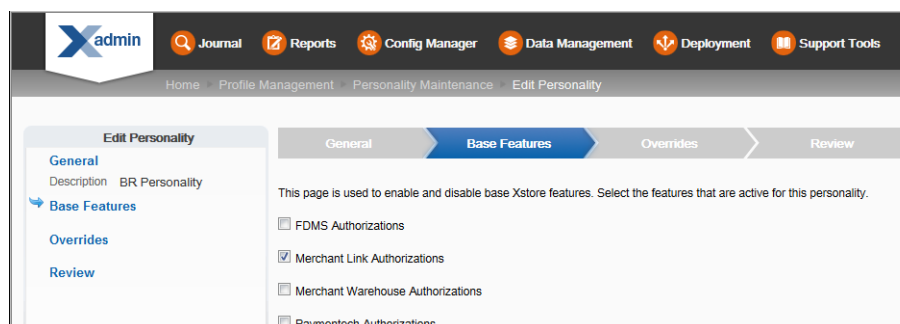
1. General Information

Define the basic information for the Personality, then click **Next**.

- a. **Description** - Enter the Personality identifier.
- b. **Comments** - [**OPTIONAL**] Enter additional identifying information for the Personality.

2. Base Features

Select the Xstore features that are active for this Personality, then click **Next**.



3. Overrides

Select and prioritize the Profile Group and Element combinations:



About the Profile Group and Element combinations:

- The Profile Groups and Elements available here are created in Profile Maintenance. See ["Profile Maintenance" on page 36](#) for more information.
- Only the Profile Groups with the type "Personality" are available in the drop-down list. (Profile Groups with the type "Landscape" are not available in Personality Maintenance.)
- A <Store Specific> override entry is available by default in the drop-down list.

- a. Select the Profile Group for this Personality.
- b. Select the Profile Element for this Personality.
- c. Click Add Element.
- d. Repeat steps a through c as needed to add all the Profile Group and Element combinations to this Personality.
- e. If needed, select a Profile Group and Element combination row and use the up/down arrows to change the priority. Elements at the top of the list have higher priority.

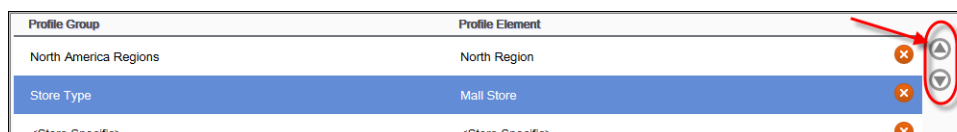


Figure 4-9: Profile Group/Profile Element Combination List

- f. If needed, click the  icon to remove the Profile Group and Element combination from the Personality.
- g. Click **Next**.

4. Review

Review the options you selected. Go to [step 4 on page 41](#).

Landscape Maintenance

Use Landscape Maintenance to create and edit the register layout portion of configuration paths.

1. From the Xadmin menu, select **Config Manager** --> *Profile Management*, or click the [Profile Management](#) link in the **Configuration Manager** panel.
2. From the Profile Management page ([Figure 4-1 on page 35](#)), select **Landscape Maintenance**.
3. At the Landscape Maintenance page, add a new Landscape or edit an existing one.

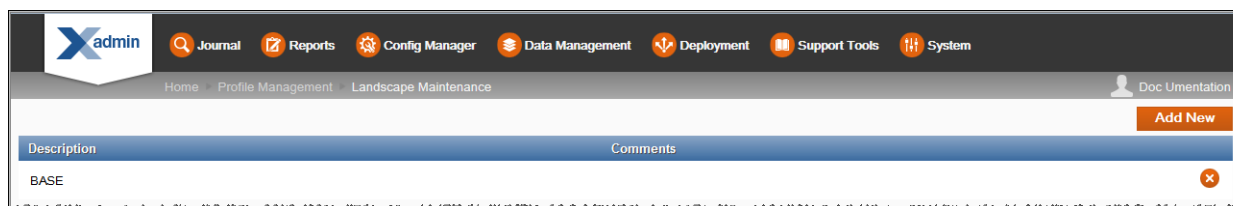


Figure 4-10: Landscape Maintenance Page

- ☐ If adding a new Landscape, continue with [To Add a New Landscape](#) below.
- ☐ If editing an existing Landscape, skip to ["To Edit an Existing Landscape" on page 46](#).

To Add a New Landscape

1. At the Landscape Maintenance page, click **Add New**.
2. At the Edit Landscape page, complete the following information:

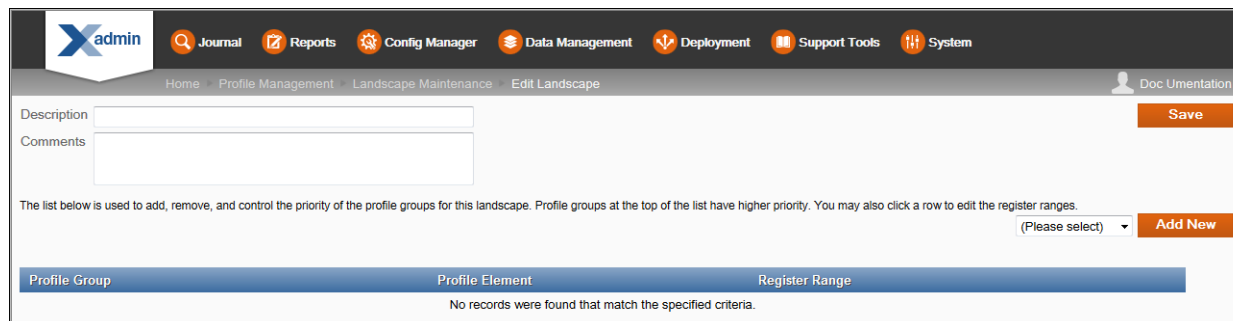


Figure 4-11: Edit Landscape Page - Add New

- a. **Description** - Enter a short description for the new Landscape.
- b. **Comments** - [**OPTIONAL**] Enter additional information about the new Landscape.
3. Select a Profile Group from the drop-down list, then click **Add New** to add the Profile Group to the Landscape.



The Profile Groups and Elements available here are created in Profile Maintenance. See "[Profile Maintenance](#)" on page 36 for more information.

Only the Profile Groups with the type "Landscape" are available in the drop-down list. (Profile Groups with the type "Personality" are not available in Landscape Maintenance).

4. At the Profile Group page, click **Add New** to add a Profile Element to the Profile Group.

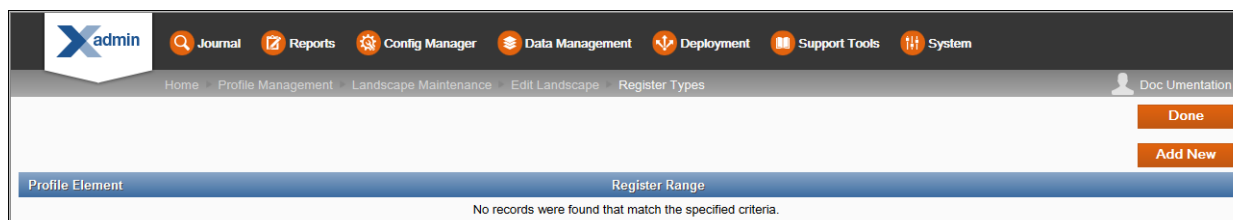


Figure 4-12: Profile Group Page - Register Types Example

5. At the Add Register Range window, complete the fields, then click **OK**:

Figure 4-13: Add Register Range Window

- a. **Profile Element** - Select a Profile Element from the drop-down list.
- b. **Register Range** - Enter a starting and ending register range. If there is only one register, enter the register number in both fields.
6. Repeat steps 4 and 5 as needed to add all the Profile Elements and Register Ranges for the Profile Group.
7. Click **Done** to return to the Edit Landscape page.

8. You have the following options at the Edit Landscape page before saving the Landscape:

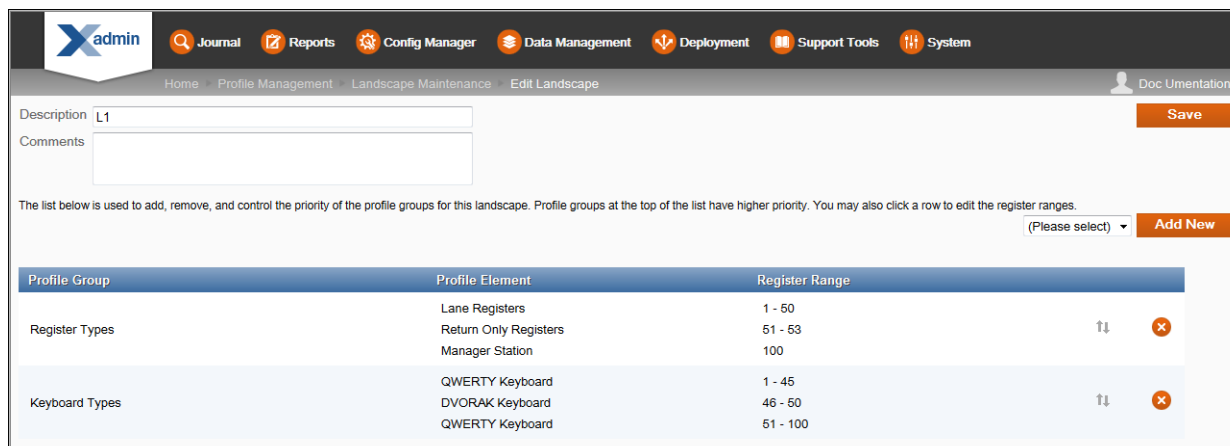


Figure 4-14: Edit Landscape Page

- ❑ To add additional Profile Groups and Elements to the Landscape, repeat steps 3 through 7.
- ❑ To edit the register ranges, select the row to open the Add Register Range window (Figure 4-13) and make changes as needed.
- ❑ To delete a register range, select the row and click the Delete icon
- ❑ To change the priority, click the selector control icon to select the row and activate the up and down arrows on the right side of the page.

With the row selected, use the up/down arrows to move the row up or down in the list. Profile Groups at the top of the list have higher priority.



9. When Landscape setup is complete, click **Save** to return to the Landscape Maintenance page.

To Edit an Existing Landscape

1. At the Landscape Maintenance page ([Figure 4-10 on page 43](#)), select the Landscape in the list.



To delete a Landscape, click the Delete icon .

When prompted, click Yes to confirm the deletion.

If a Landscape has been assigned to a Store, it cannot be deleted.

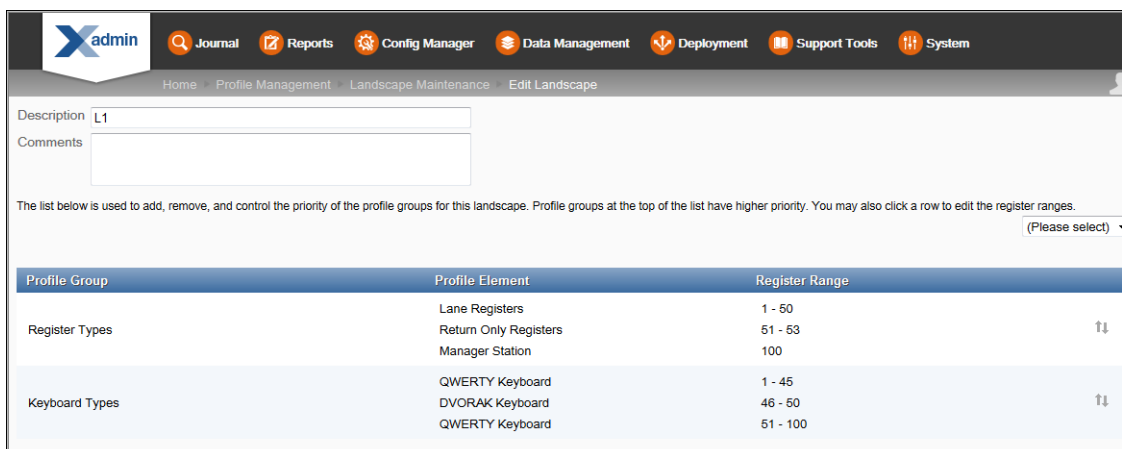
Are you sure you want to delete the selected landscape?

Yes
No

The landscape "DG" cannot be deleted because it is assigned to a store.

OK

2. At the Edit Landscape page, edit the Landscape as needed:



Profile Group	Profile Element	Register Range
Register Types	Lane Registers	1 - 50
	Return Only Registers	51 - 53
	Manager Station	100
Keyboard Types	QWERTY Keyboard	1 - 45
	DVORAK Keyboard	46 - 50
	QWERTY Keyboard	51 - 100

Figure 4-15: Edit Landscape Page

- ☐ To change the Description or Comment, enter the information in the appropriate field.
- ☐ To add a new profile group perform [step 3 on page 43](#) through [step 7 on page 44](#).
- ☐ To edit the register ranges, select the row to open the Add Register Range window (Figure 4-13) and make changes as needed.
- ☐ To change the priority, click the selector control icon  to select the row and activate the up and down arrows.



With the row selected, use the arrows  to move the row up or down in the list. Profile Groups at the top of the list have higher priority.

3. Click **Save** when the edits are complete to return to the Landscape Maintenance page.

Store Personality Maintenance

Store Personalities are used to create the configuration paths specified in `configPath.properties`.

Store Personality Maintenance is where you assign the Personalities (created in [Personality Maintenance](#)) and Landscapes (created in [Landscape Maintenance](#)) to stores.

1. From the Xadmin menu, select **Config Manager** --> *Profile Management*, or click the [Profile Management](#) link in the **Configuration Manager** panel.
2. From the Profile Management page ([Figure 4-1 on page 35](#)), select **Store Personality Maintenance**.
3. **[OPTIONAL]** At the Store Personality Maintenance page, use the *Filter Criteria* and *Find a Node* search options to quickly find a store:

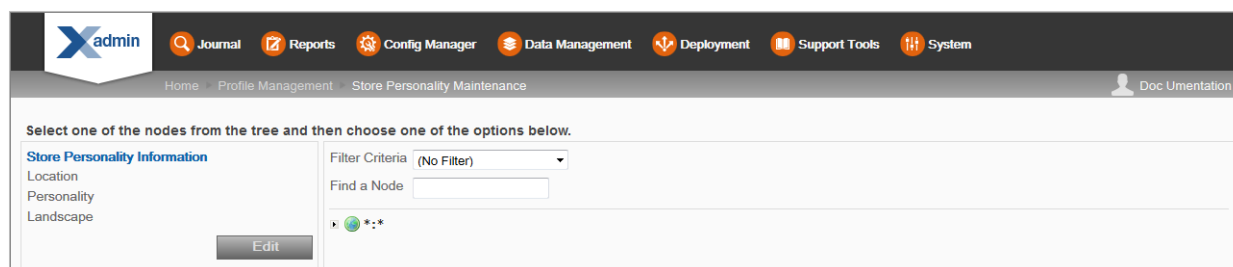
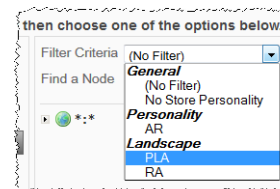


Figure 4-16: Store Personality Maintenance Page

To quickly find a store you can:

- Select an option from the *Filter Criteria* drop-down list to filter the nodes displayed in the org hierarchy tree based on assigned personalities and landscapes. The following filter options are available:
 - ☐ **No Filter** (default): Select this option to remove any filters.
 - ☐ **No Store Personality** – Select this option to display only the stores that do not have store personalities assigned to them.
 - ☐ **Personalities or Landscapes:** All the personalities created on the Personalities Maintenance page are listed under the heading “Personalities”, and all the landscapes created on the Landscapes Maintenance page are listed under the heading “Landscapes”. Select a personality or landscape to display only the stores that have the selected personality or landscape assigned to them.



<OR>

- In the *Find a Node* field, begin typing the node description to search for a specific node in the org hierarchy tree.

- From the hierarchy tree, select a node to assign a Personality/Landscape pair.

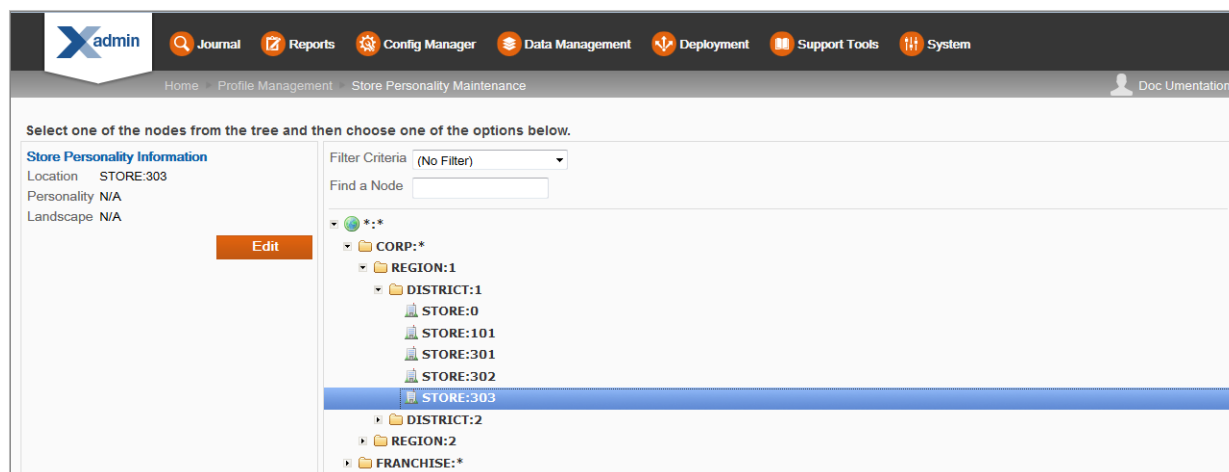


Figure 4-17: Store Personality Maintenance Page - Store Node Selected



If you select a non-store node (for example "District"), all stores contained in that node will be affected by any change made to the personality and landscape. This will remove and replace any personality/landscapes that were previously assigned to stores within that node.

- Click **Edit** to modify the personality/landscape assignments for the selected store.
- At the Edit Store Personality window, select a Personality and a Landscape from the drop-down lists. Both a Personality and a Landscape are required.



Figure 4-18: Edit Store Personality Window

7. Click **Save** to assign the selected Personality and Landscape to the store.

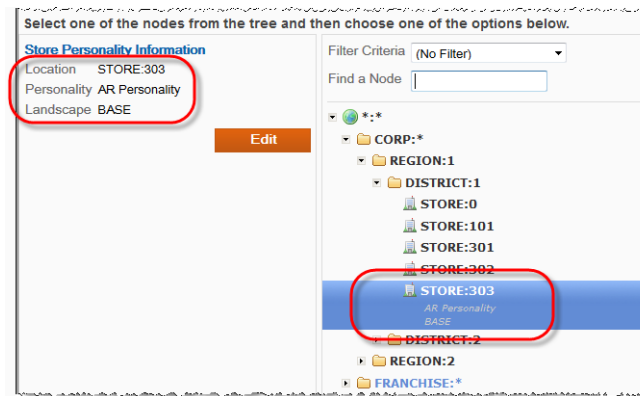


Figure 4-19: Store Personality Maintenance Page - Assignment Complete

See also: [Appendix B: "Personality Maintenance & Config Paths" on page 268](#)

Configurator

Overview

The **Configurator** component of *Configuration Manager* is used to create, maintain, and deploy Xstore configuration changes selectively, or globally across the entire organization. See [About this Chapter](#) below for a list of the configuration areas described in this chapter.



The Profile Management component of Configuration Manager is used to define "store personalities" in order to create configuration paths. Refer to [Chapter 4, "Profile Management" on page 34](#) for more information about managing profiles and config paths.

The logged-in user is assumed to represent some tier of the organization. For this reason, the user's assigned org node hierarchy will determine the information he/she has access to. See [Chapter 2, "Roles, Users, and Security Access" on page 9](#) for more information about users and security access.

About this Chapter

The following areas can be configured in Configurator:

- ❑ **Codes** - Add, edit, and delete configurable codes. See ["Configuring Codes" on page 55](#).
- ❑ **Discounts** - Configure different types of discounts that may be manually applied during a sale transaction. See ["Configuring Discounts" on page 57](#).
- ❑ **Reason Codes** - Configure common reason codes. See ["Configuring Reason Codes" on page 62](#).
- ❑ **Menu Configuration** - Add, remove and edit options on Xstore menus and tabs. See ["Configuring Menus and Tabs" on page 65](#).
- ❑ **Receipt Configuration** - Configure common text, such as headers and footers, and change the logo for your sales receipts. See ["Configuring Receipts" on page 79](#).

- ❑ **System Configuration** - Configure behaviors/business rules for Xstore. See [“Configuring Xstore System Config Options” on page 90.](#)
- ❑ **Security** - Configure Xstore security groups and the privileges that are associated with those groups. This option applies to Global configurations only. See [“Configuring Xstore Security” on page 95.](#)
- ❑ **Tenders** - Configure the settings and data related to tenders. See [“Configuring Tenders” on page 104.](#)
- ❑ **Customer Displays** - Manage the text used on customer-facing displays. See [“Configuring Customer Displays” on page 117.](#)

Configuration Options & Availability Matrix

Configurator is used to create, maintain, and deploy Xstore configuration changes selectively, or globally across the entire organization. Not all configuration options are available for all scopes. The following configuration scopes are available:

- ❑ **Global Configurations** - Change or deploy the global configuration layer which is the foundation for all locations.
- ❑ **Configuration Overrides** - Change or deploy configurations that will override the global layer for specific locations (Profile Groups).
- ❑ **Store Specific Overrides** - Change or deploy configurations that will override the global layer for specific stores.

Configuration Option	Scope Availability
Configure	■ Global Configurations ■ Configuration Overrides ■ Store Specific Overrides¹
Deploy	■ Global Configurations ■ Configuration Overrides ■ Store Specific Overrides¹
View Configuration Changes	■ Global Configurations ■ Configuration Overrides ■ Store Specific Overrides¹
Delete Profile Configuration Changes²	■ Configuration Overrides ■ Store Specific Overrides¹
Copy Store Configurations	■ Store Specific Overrides¹

1. Store Specific Overrides scope is only available if Xadmin configuration “Enable the Option to Create Store-Specific Configurations?” is set to Yes.

2. Delete Profile Configuration Changes option is only available if Xadmin configuration “Enable the Option to Delete Configurations?” is set to Yes.

Configuration Versioning

Xadmin creates and tracks version numbers for each set of configurations deployed via a profile group and element, globally, or a store specific group.

When you create a new configuration set, it is given a version number of 1 (one) to start. The next version number will be increased by one for that specific profile group to be used on the next set of configurations.

When a deployment is scheduled for a profile group and element, the `ProfileGroupId`, `ProfileElementId` and `ConfigVersion` are recorded in the manifest of the jar file that is produced. This manifest is then used by Xstore to log the version information.

When Xstore starts up, it reads the `ProfileGroupId`, `ProfileElementId` and `ConfigVersion` from the manifest of the jar file, and logs it in the `ctl_event_log` table with the following information:

Table 5-1: *ctl_event_log* Table

Column	Information logged
logger_category	dtv.xstore.configversion
log_message	ProfileGroupId/ProfileElementId /ConfigVersion

Managing Configurations

1. From the Xadmin menu, select **Config Manager** --> *Configurator*, or click the [Configurator](#) link in the **Configuration Manager** panel.
2. Select the Configuration Scope:

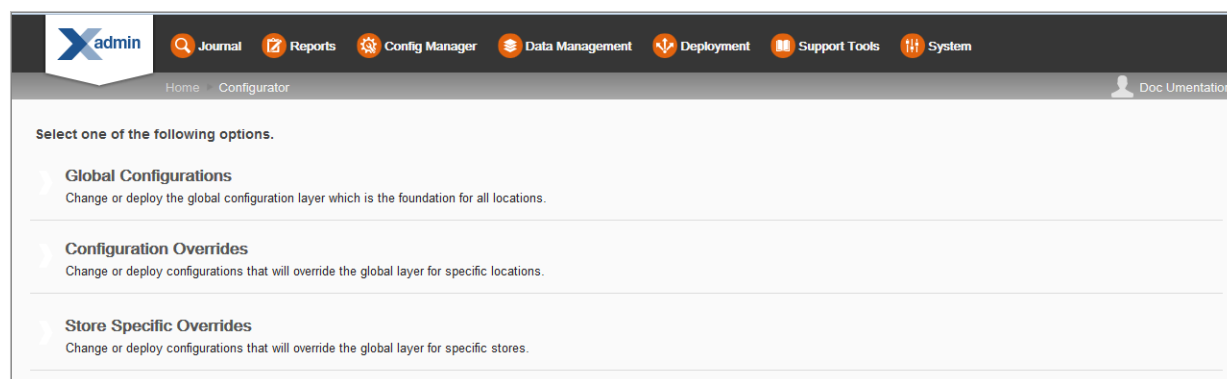


Figure 5-1: Configuration Scope Options Page

- Select **Global Configurations** to change the global configuration layer which affects all locations. Continue with [step 3 on page 53](#).
- <OR>
- Select **Configuration Overrides** to change configurations that will override the global layer for specific locations. The Profile Groups available here are defined in the Profile Maintenance component of Profile Management. See [Chapter 4, "Profile Management" on page 34](#) for more information about setting up Profile Groups.

- a. Select a Profile Group from the list.
- b. Select an Element from the list.
- c. Click **Next**.
- d. Continue with [step 3 on page 53](#).

<OR>

- Select **Store Specific Overrides** to change configurations that will override the global layer for a specific store based on the user's scope.



Store Specific Overrides scope is only available if Xadmin configuration "Enable the Option to Create Store-Specific Configurations?" is set to Yes.

- a. Type the store number or begin typing a store number or name in the Store # field.
- b. Select the store from the store list.
- c. Click **Next**.
- d. Continue with step 3 below.

3. At the Configuration Action page, select the **Configure** option.

Figure 5-2: Configuration Action Page - Global/Default Scope Example

4. At the Configuration Options page, select the area you want to configure:

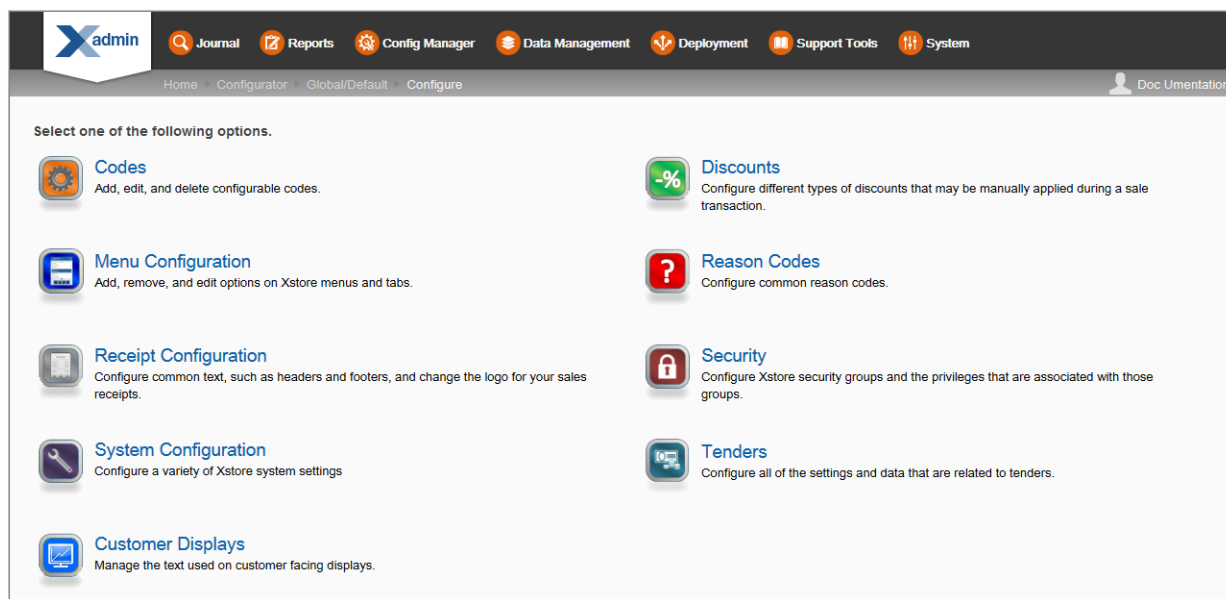


Figure 5-3: Configuration Options Page - Global/Default Scope Example

- If you selected **Codes**, see ["Configuring Codes" on page 55](#).
- If you selected **Discounts**, see ["Configuring Discounts" on page 57](#).
- If you selected **Reason Codes**, see ["Configuring Reason Codes" on page 62](#).
- If you selected **Menu Configuration**, see ["Configuring Menus and Tabs" on page 65](#).
- If you selected **Receipt Configuration**, see ["Configuring Receipts" on page 79](#).
- If you selected **System Configuration**, see ["Configuring Xstore System Config Options" on page 90](#).
- If you selected **Security**, see ["Configuring Xstore Security" on page 95](#). This option is only available for the Global scope.
- If you selected **Tenders**, see ["Configuring Tenders" on page 104](#).
- If you selected **Customer Displays**, see ["Configuring Customer Displays" on page 117](#).



Configuring Codes

...continued from [step 4 on page 54](#)

1. The Xstore codes have been organized by groups. Select a **Code Group** to view the codes in the group.

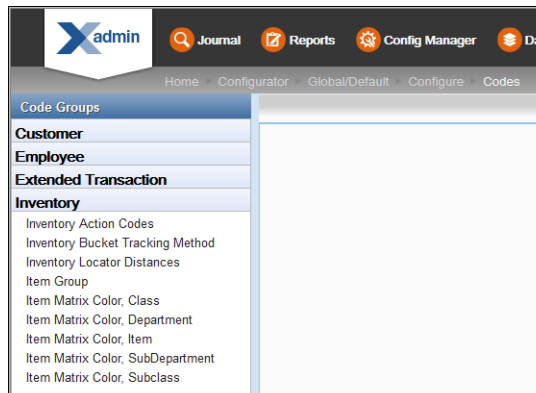


Figure 5-4: Code Groups List - Inventory Codes Group Expanded Example

2. Select a code from the expanded Code Groups list to modify.

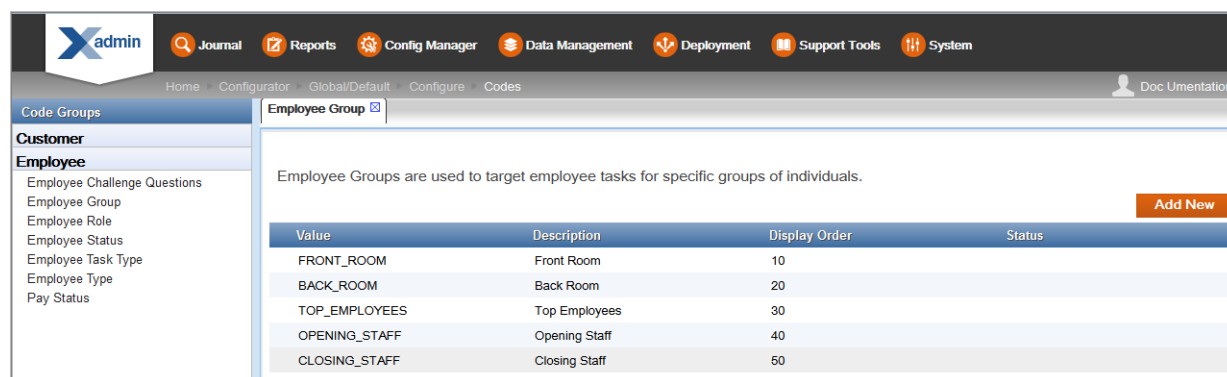


Figure 5-5: Configure Codes Page - Employee Task Type Code Example

3. Add a new code or edit an existing code:

☐ **If adding a new code:**

- 1) Click **Add New**.
- 2) Complete the fields as required, then click **Save**. See ["Code Configuration Options" on page 56](#).

☐ **If editing an existing code:**



You can only edit global records if you are in a global configuration.

- 1) Select the code in the list.
 - 2) Edit the fields as required, then click **Save**. See ["Code Configuration Options" on page 56](#).
4. After completing code setup, you have the following options:
- ☐ To deploy your changes, see ["Deploying Configuration Changes" on page 118](#).
 - ☐ To view a summary list of a profile element's configuration changes to identify how it differs from the global configuration, see ["Viewing Configuration Changes" on page 123](#).
 - ☐ **[CONFIGURATION OVERRIDES & STORE SPECIFIC OVERRIDES ONLY]** - To delete the current profile element configuration changes, see ["Delete Profile Configuration Overrides" on page 125](#).
 - ☐ **[STORE SPECIFIC OVERRIDES ONLY]** - To copy store configurations from another store, see ["Copy Store Configurations" on page 128](#).

Code Configuration Options

Edit Code Value

Value: HOUSEKEEPING

Description: English (United States)

Display Order:

☒ Enabled?

Save

Figure 5-6: Edit Code Value Window

- **Value** - The name of the code: required, alphanumeric field. In edit mode, this value cannot be changed.
- **Description** - A description of the code: not required, alphanumeric field.
- **Display Order** - Determines the sort order of the code value as compared to other code values for this group.
- **Locale** - If needed, select a translation locale and enter the description for the locale.
- **Image URL** - If applicable, specify the URL of the image file. If this does not apply to the selected code, this option is not displayed.
- **Rank** - If applicable, specify the rank value for this code. If this does not apply to the selected code, this option is not displayed.
- **Enabled?** - Determines whether this code is available for use. A check mark indicates the code is enabled. The **Disabled** label in the Status column indicates a code is not available for use.

Value	Description	Display Order	Status
EMP_CHALLENGE_Q1	In what city were you born?	10	Disabled

Figure 5-7: Configure Codes Page - Disabled Code Example

Configuring Discounts

...continued from [step 4 on page 54](#)

1. Maintain discounts or set up system configuration options:
 - ☐ To maintain discounts, select **Discount Maintenance** and continue with step 2.
 - ☐ To set up system configuration options, select **Discount System Configuration** and skip to ["Discounts System Configuration" on page 60](#).
2. Select the type of discount to configure or set up system configuration options:
 - ☐ **Line Item Discounts** - Discounts that apply to an individual line item in a sale transaction.
 - ☐ **Transaction Discounts** - Discounts that apply to all line items in a sale transaction.
 - ☐ **Group Discounts** - Discounts that apply to a selected group of line items in a sale transaction.
3. Add a new discount or edit an existing discount:
 - ☐ **If adding a new discount:**
 - 1) Click **Add New**.
 - 2) Complete the fields as required, then click **Next**. See ["Discount Configuration Options" on page 59](#) for a list of discount configuration options.
 - 3) Skip to [step 4 on page 58](#) to review your selections.
 - ☐ **If editing an existing discount:**



You can only edit global records if you are in a global configuration.

*If you are editing configurations in a specific location (Profile Group or Store), the **Edit** button in the Discount Detail window will only be available if you have the proper privileges.*

- 1) Select the discount in the list.
- 2) At the Discount Detail window, click **Edit**.
- 3) Complete the fields as required, then click **Next**. See ["Discount Configuration Options" on page 59](#) for a list of discount configuration options.
- 4) Continue with [step 4 on page 58](#) to review your selections.

4. Review the discount options you selected:

The screenshot shows the 'Edit Discount' page in Xadmin. The left sidebar contains tabs for 'Define', 'Calculate', 'Customize', 'Authorize', and 'Review'. The 'Review' tab is selected. The main panel displays the following details:

- General Information:** Discount Code ITEM_AMT_INCLUDE_ITEMS, Description Item Discount: \$10 Off (Includes 3002-3004), Start Date January 1, 1980, End Date None.
- Calculation Details:** Calculation Method Fixed Amount \$10.00, Maximum Allowed Amount None, Minimum Eligible Amount None.
- Customization Details:** Discount Message None, Serialized No, Maximum Number of Uses in a Transaction None, Exclusive No, Modification Allowed After Application Yes.
- Accessibility Details:** Manager Clearance Required No, Eligible Customer Groups Elite Program Member, Eligible Item Types Sale.

Navigation buttons at the top of the main panel include '<< previous', 'save', 'cancel', and 'next >>'.

Figure 5-8: Discount Options Review

- ☐ To save the discount, click **save**. The discount is added to the Discount list.
 - ☐ To edit the discount:
 - ☐ Click **previous** to go back one page. << previous save cancel next >>
 - <OR>
 - ☐ Select a configuration option in the Edit Discount section in the left panel of the window.

After making your changes, click **save**. The new discount is added to the Discount list.
 - ☐ To discard the discount, click **cancel**. When prompted, click **Yes** to confirm you want to cancel discount setup.
5. After completing discount setup, Xadmin returns to the Discount list page.
- ☐ To deploy your changes, see ["Deploying Configuration Changes" on page 118](#).
 - ☐ To view a summary list of a profile element's configuration changes to identify how it differs from the global configuration, see ["Viewing Configuration Changes" on page 123](#).
 - ☐ **[CONFIGURATION OVERRIDES & STORE SPECIFIC OVERRIDES ONLY]** - To delete the current profile element configuration changes, see ["Delete Profile Configuration Overrides" on page 125](#).
 - ☐ **[STORE SPECIFIC OVERRIDES ONLY]** - To copy store configurations from another store, see ["Copy Store Configurations" on page 128](#).

Discount Configuration Options

Basic Information

1. Define the basic information for the discount, then click **Next**.

- ☐ **Discount Code** - The code must be unique, and cannot be changed when editing an existing discount.
- ☐ **Description** - Enter a text description for the discount.
- ☐ **Locale for translation** - If needed, select a translation locale and enter the description for the locale.
- ☐ **Start Date** - Enter or select a starting date.
- ☐ **End Date** - If needed, enter or select an ending date.
- ☐ **Discount enabled status check box** (enabled by default)



Discounts cannot be deleted. Disable any discounts you do not want to use.

Calculation Information

2. Specify how the discount is calculated, then click **Next**.

- ☐ **Method** - Select a calculation method from the drop-down list.
- ☐ **Amount/Percent** - If applicable, enter the amount off or percent off. (This field is not active for discounts without a defined amount or percent off).
 - ☐ For *Prompt Amount* discounts, select the **"Is there a maximum allowed input amount?"** option if there is a limit on the free-format discount amount that can be entered in Xstore and enter the amount when prompted.
 - ☐ For *Prompt Percent* discounts, select the **"Is there a maximum allowed input percentage"** option if there is a limit on the free-format discount percentage that can be entered in Xstore and enter the percent when prompted.
- ☐ **Is there a maximum allowed amount?** Select this option if true, and enter the amount when prompted.
- ☐ **Is there a minimum amount to make this discount eligible?** Select this option if true, and enter the amount when prompted.

Customized Configuration Options

3. Customize the discount features, then click **Next**.

- ☐ **Is there a custom message for this discount?** - Select this option if true, and enter the custom message when prompted. If needed, select a translation locale and enter the custom message for the locale.
- ☐ **Is it serialized?** - Select this option if the discount has an associated serial number. For example, it may be used with coupon discounts.
- ☐ **Is there a maximum number of times it can be applied in a transaction?** - Select this option if true, and enter the maximum number of times it can be applied in a transaction when prompted.

- ☐ **Is it exclusive?** - Select this option if the discount cannot be used with any other discounts.
- ☐ **Can it be modified once it has been applied?** - Select this option if the discount can be changed. This option is selected by default (true).

Discount Accessibility Configuration

4. Configure discount accessibility, then click **Next**.

- ☐ **Is manager clearance required to apply this discount?** - Select this option if manager override is required to use this discount.
- ☐ **Eligible Customer Groups.** - Select all options that apply. For example:
 - ☐ Elite Program Member
 - ☐ Employee
 - ☐ Employee Family
 - ☐ Normal Level
- ☐ **Eligible Item Types.** - Select all options that apply. For example:
 - ☐ Layaway
 - ☐ Order
 - ☐ Sale
 - ☐ Send Sale
 - ☐ Special Order
 - ☐ Work Order

Discounts System Configuration



The system configuration options for discounts in this feature are simply a subset of the system configuration options available from Xstore System Config Options. See ["Configuring Xstore System Config Options" on page 90](#) for more information.

The following configurations apply specifically to discounts. The categories have been set up as follows:

- [Discount Options](#)
- [Returns](#)

Discount Options

- **Enable Discount Threshold Validation?** - Determines whether the system validates the total discount amount or percentage against a configured threshold. **Note:** The thresholds establish maximum allowable amounts or percentages used for discounting; beyond these thresholds, the DISCOUNT_EXCEED_MAX_THRESHOLD privilege is activated.

- **How Should Price Be Rounded After Discount Applied?** - The local currency amount rounding method used for determining the price after a discount is applied:
 - ☐ Half Up - Round to the nearest neighbor unless equidistant, then round up.
 - ☐ Half Down - Round to the nearest neighbor unless equidistant, then round down.
 - ☐ Half Even - Round to the nearest neighbor unless equidistant, then round to even neighbor. Example: 2.5 rounds to 2 while 3.5 rounds to 4.
 - ☐ Ceiling - Round toward positive infinity. Note: This is the opposite of FLOOR and never decreases the calculated value.
 - ☐ Down - Round to the next digit; closer to zero.
 - ☐ Floor - Round down toward negative infinity. Note: This is the opposite of CEILING and never increases the calculated value.
 - ☐ Up - Round to the next digit; away from zero.
 - ☐ Unnecessary - Rounding is not necessary.
- **Minimum # of Items That Can Participate In Group Discount.** - The minimum number of items required in order to allow application of a group discount.
- **Minimum Threshold For You Saved Amount?** - The minimum amount of customer savings required for the system to print the customer savings information on the sales receipt.
- **Precision Decimal Places For Calculating Line Item Discounts.** - If `LineDiscountUseConfiguredScale` is true, the system uses this scale instead of the local currency scale to round the line item discount amount.
- **Print You Saved Amount On Receipts?** - Determines whether the system prints customer savings information on the sales receipt.
- **Prompt Confirmation On Item Deletion Participating In Group Discount?** - Determines whether the system prompts for confirmation if the associate wants to remove an item with a group discount. The group discount will be removed from other items as well.
- **Threshold Amount To Measure Line Item Discounts Against.** - If `DiscountThreshold Enabled` is true, the system validates the total line item discount amount against the threshold amount specified here.
- **Threshold Percent To Measure Line Item Discounts Against.** - If `DiscountThreshold Enabled` is true, the system validates the total line item discount percent against the threshold percent specified here.
- **Use Special Precision For Calculating Line Item Discount Amounts?** - Determines whether the system uses `LineDiscountPrecision` scale instead of the local currency scale to round the line item discount amount.

Returns

- **Allow Return Items To Be Discounted On Blind Returns?** - Determines whether the system allows applying a discount on a blind return (Customer does not present the original sales receipt.) This configuration applies only to line item and group discounts. This configuration does not apply to transaction discounts.

- **Allow Return Items To Be Discounted On Unverified Returns?** - Determines whether the system allows applying a discount on an unverified return. (Customer presents the original sales receipt but the system is not able to retrieve the original sales transaction.) This configuration applies only to line item and group discounts. This configuration does not apply to transaction discounts.
- **Allow Return Items To Be Discounted On Verified Returns?** - Determines whether the system allows applying a discount on a verified return. (Customer presents the original sales receipt and the system is able to retrieve the original sales transaction.) This configuration applies only to line item and group discounts. This configuration does not apply to transaction discounts.
- **Disable Pro-rated Discounts On Returns?** - When this setting is enabled, Xstore will turn off the proration of discounts for returns.

Configuring Reason Codes

...continued from [step 4 on page 54](#)

1. At the Reason Code Search page, select the Reason Code Type from the list, then click **Next**.
2. The configuration page for the selected reason code type displays. Add a new reason code or edit an existing reason code.

❑ **If adding a new reason code:**

- 1) Click **Add New**.
- 2) Complete the fields as required, then click **Next**. See ["Reason Code Configuration Options" on page 63](#) for a list of reason code fields.
- 3) Skip to [step 3 on page 63](#).

❑ **If editing an existing reason code:**



You can only edit global records if you are editing records in a global configuration.

*If you are editing configurations in a specific location (Profile Group or Store), the **Edit** button in the Reason Code Detail window will only be available if you have the proper privileges.*

- 1) Select the reason code in the list.
- 2) At the Reason Code Detail window, select **Edit**.
- 3) Complete the fields as required, then click **Next**. See ["Reason Code Configuration Options" on page 63](#) for a list of reason code fields.
- 4) Continue with [step 3 on page 63](#).

3. Review the reason code options you selected:

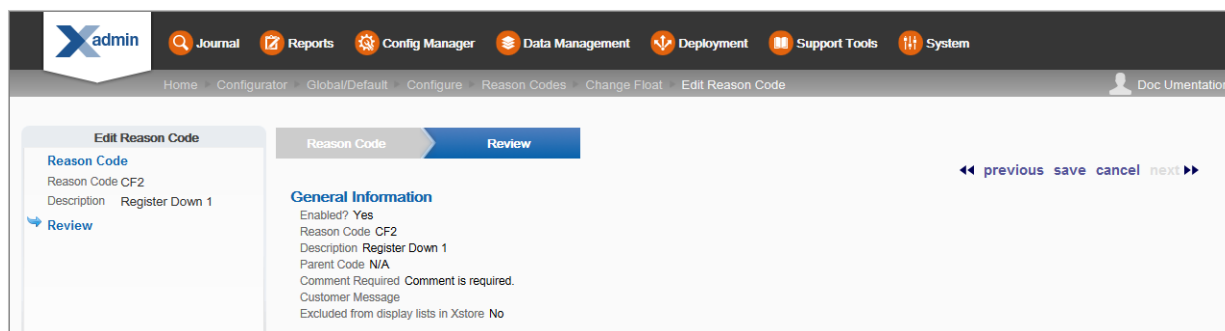


Figure 5-9: Reason Code Options Review

- ☐ To save the new reason code, click **save**. The reason code is added to the Reason Codes list.
 - ☐ To edit the reason code:
 - ☐ Click **previous** to go back one screen. << previous save cancel next >>
 - <OR>
 - ☐ Select a configuration option in the Edit Reason Code section in the left panel of the window.

After making your changes, click **save**. The new reason code is added to the Reason Codes list.
 - ☐ To discard the reason code, click **cancel**. Click **Yes** to confirm you want to cancel reason code setup.
4. After completing reason code setup, Xadmin returns to the Reason Codes list page.
- ☐ To deploy your changes, see ["Deploying Configuration Changes" on page 118](#).
 - ☐ To view a summary list of a profile element's configuration changes to identify how it differs from the global configuration, see ["Viewing Configuration Changes" on page 123](#).
 - ☐ **[CONFIGURATION OVERRIDES & STORE SPECIFIC OVERRIDES ONLY]** - To delete the current profile element configuration changes, see ["Delete Profile Configuration Overrides" on page 125](#).
 - ☐ **[STORE SPECIFIC OVERRIDES ONLY]** - To copy store configurations from another store, see ["Copy Store Configurations" on page 128](#).

Reason Code Configuration Options

The set of configuration options will vary with the Reason Code Type. This section defines the basic options available for setting up reason codes.

General Options

- ☐ **Enabled?** - Reason Code enabled status check box. This option is enabled by default. Remove the check mark to disable the reason code.

- ☐ **Reason Code** - The reason code value associated with the reason type code. This value must be unique, and cannot be changed when editing an existing reason code.
- ☐ **Description** - Text description for the reason code.
- ☐ **Locale for translation** - If needed, select a translation locale and enter the description for the locale.
- ☐ **Does this reason code have a parent code?** - If true, select the parent reason code (hierarchy level) upon which the nested reason code is based.
- ☐ **Does this reason code require that a comment be added?** - If true, the POS user will be prompted to add a comment. Specify whether the comment is optional (*Prompt to add comment*), or if the comment is required (*Comment is required*).
- ☐ **Does this reason code need to display a customer message?** - If true, enter the customer message to be displayed when the reason code is selected in the POS system. If needed, select a translation locale and enter the customer message for the locale.
- ☐ **Should this reason code be excluded from reason code lists displayed in Xstore?** - Select this option if this reason code will not be available to the Xstore POS user.

Inventory Adjustment Options

- ☐ **What is the inventory action code for this reason code?** - If this reason code has an inventory action code, select the code from the list to specify the inventory action (add or subtract from inventory) to be taken based on the reason code.

Paid In/Paid Out Options

- ☐ **Does the reason code have a General Ledger Account Number?** - If this reason code is associated with a General Ledger account, enter the General Ledger account number to be recorded when the reason code is selected in Xstore.
- ☐ **Does the reason code require a minimum amount?** - If true, enter the minimum monetary amount allowed for this reason code.
- ☐ **Does the reason code require a maximum amount?** - If true, enter the maximum monetary amount allowed for this reason code.

Return Reason Code Options

- ☐ **What inventory location ID is affected by this reason code?** - Select the inventory location ID to which the item will be returned.
- ☐ **What inventory bucket ID is affected by this reason code?** - Select the inventory bucket ID within the location to which the item will be returned.

Configuring Menus and Tabs



Use of the Menu Configuration and Tab Configuration tools assumes some knowledge of the Xstore menus and tabs and how they are used in the Xstore application.

...continued from [step 4 on page 54](#)

Select a menu option:

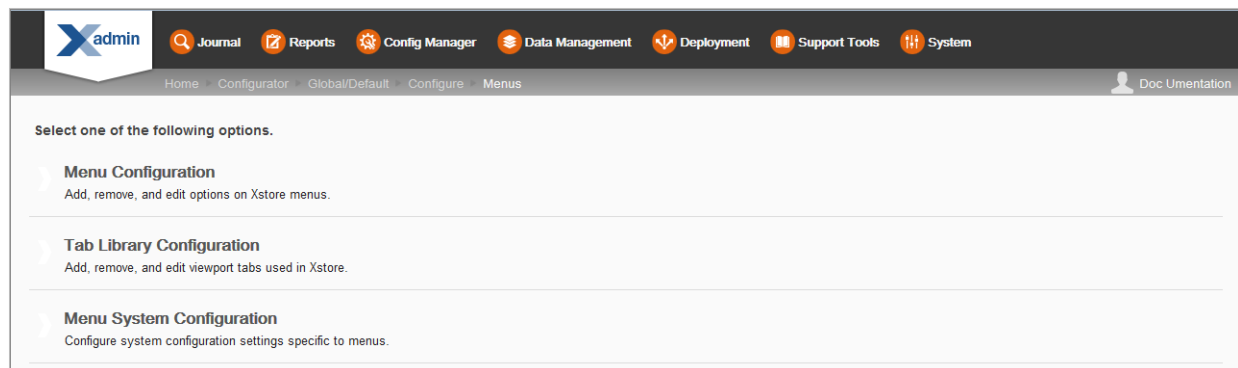


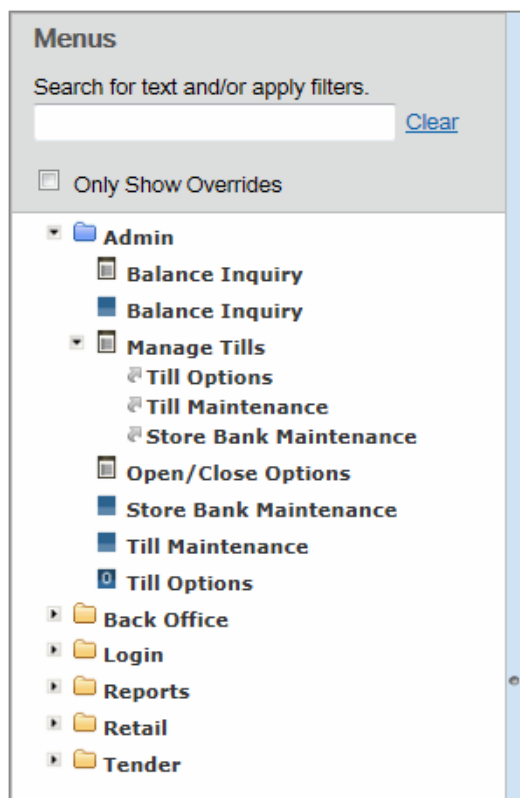
Figure 5-10: Menu Options

- ☐ Select **Menu Configuration** to add, remove, and edit options on Xstore menus. Continue with [Xstore Menu Configuration](#).
- ☐ Select **Tab Library Configuration** to add or remove message area tabs used in Xstore. Skip to ["Xstore Tab Configuration" on page 75](#).
- ☐ Select **Menu System Configuration** to configure the system configuration settings that are specific to menus. Skip to ["Menu System Configuration" on page 78](#).

Xstore Menu Configuration

About menu categories

The Xstore menus have been organized by categories. For example, all menus with a category of *Back Office* will be grouped together under the **Back Office** category name and all menus with the category *Tender* will be grouped together under the **Tender** category name.



▶ **Tender** This is a Menu Category folder. All menus belonging to this category are located in this folder.

▶ **Admin** A blue Menu Category folder indicates a menu within the folder has been modified.

▶ This icon indicates there are additional menus nested below this **list** menu type.

▶ This icon indicates there are additional menus nested below this **button** menu type.

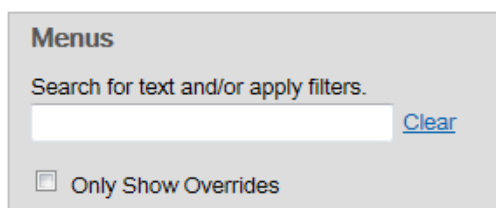
This icon indicates this is the lowest level for this **list** menu type. There are no menus nested below this menu.

This icon indicates this is the lowest level for this **button** menu type. There are no menus nested below this menu.

This icon indicates this **list** menu type has been modified.

This icon indicates this **button** menu type has been modified.

This icon indicates that this menu also appears in other Categories. Any changes made to this menu in one category will also be applied to the menu in all the categories where it appears.



- To find menus containing specific text, enter the search text in the input box, then press [Enter]. The results are shown in the left panel (folder tree). Only those menus containing the specified text are displayed. If needed, click Clear to remove the search criteria and return to the default Menu Configuration page.
- Click the **Only Show Overrides** check box to view only the Menu Categories and menus that have been changed.

Perform the following steps to configure Xstore menus.

1. After selecting Menu Configuration at the Menu Options page (Figure 5-10), click the menu category from the **Menus** tree that you want to configure.

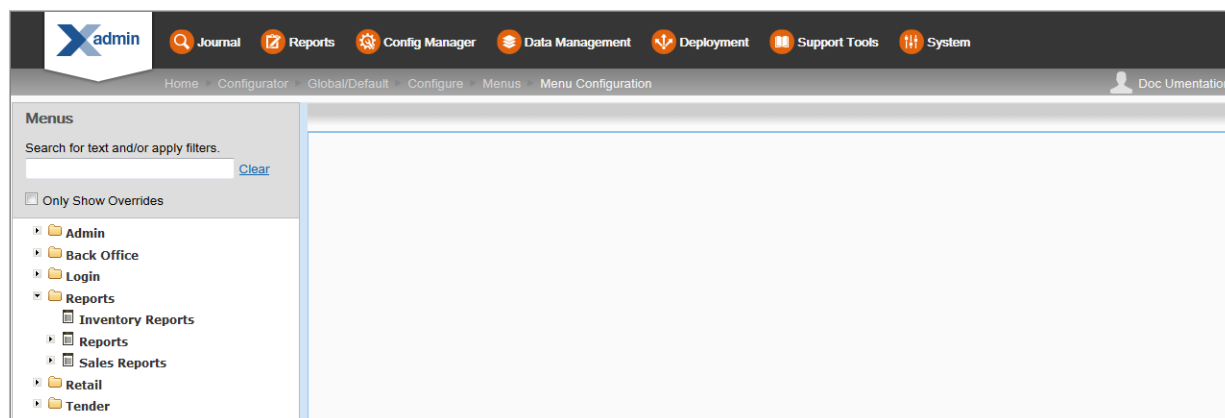


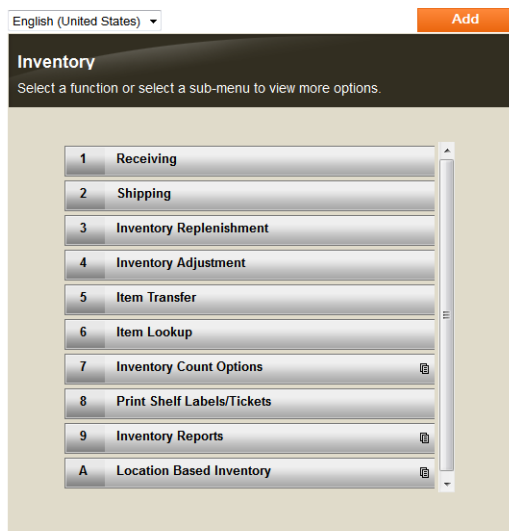
Figure 5-11: Menu Configuration Page - Menu Categories

2. With the category expanded, click the menu you want to configure.
3. You have the following configuration options:
 - ☐ **Edit** existing menu options:
 - ☐ To change the menu text, see ["Changing the menu text" on page 69](#).
 - ☐ To remove a menu option, see ["Removing a menu option" on page 70](#).
 - ☐ To change a menu option location, see ["Changing a menu option location" on page 71](#).
 - ☐ **Add** a new menu option. See ["Adding a New Menu Option" on page 72](#).
4. After completing menu setup, you can perform the following options:
 - ☐ To deploy your changes, see ["Deploying Configuration Changes" on page 118](#).
 - ☐ To view a summary list of a profile element's configuration changes to identify how it differs from the global configuration, see ["Viewing Configuration Changes" on page 123](#).
 - ☐ **[CONFIGURATION OVERRIDES & STORE SPECIFIC OVERRIDES ONLY]** - To delete the current profile element configuration changes, see ["Delete Profile Configuration Overrides" on page 125](#).
 - ☐ **[STORE SPECIFIC OVERRIDES ONLY]** - To copy store configurations from another store, see ["Copy Store Configurations" on page 128](#).

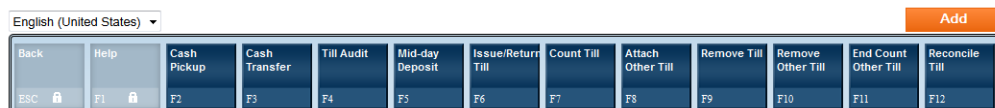
Editing an Existing Menu

With the menu displayed, edit the menu as needed.

Menu List Example



Menu Button Example



Refer to the following sections for procedural information.

Changing the menu text

1. Select the menu option to be changed and type the new menu name in the text field below the menu. The old text is replaced by the new text you typed.

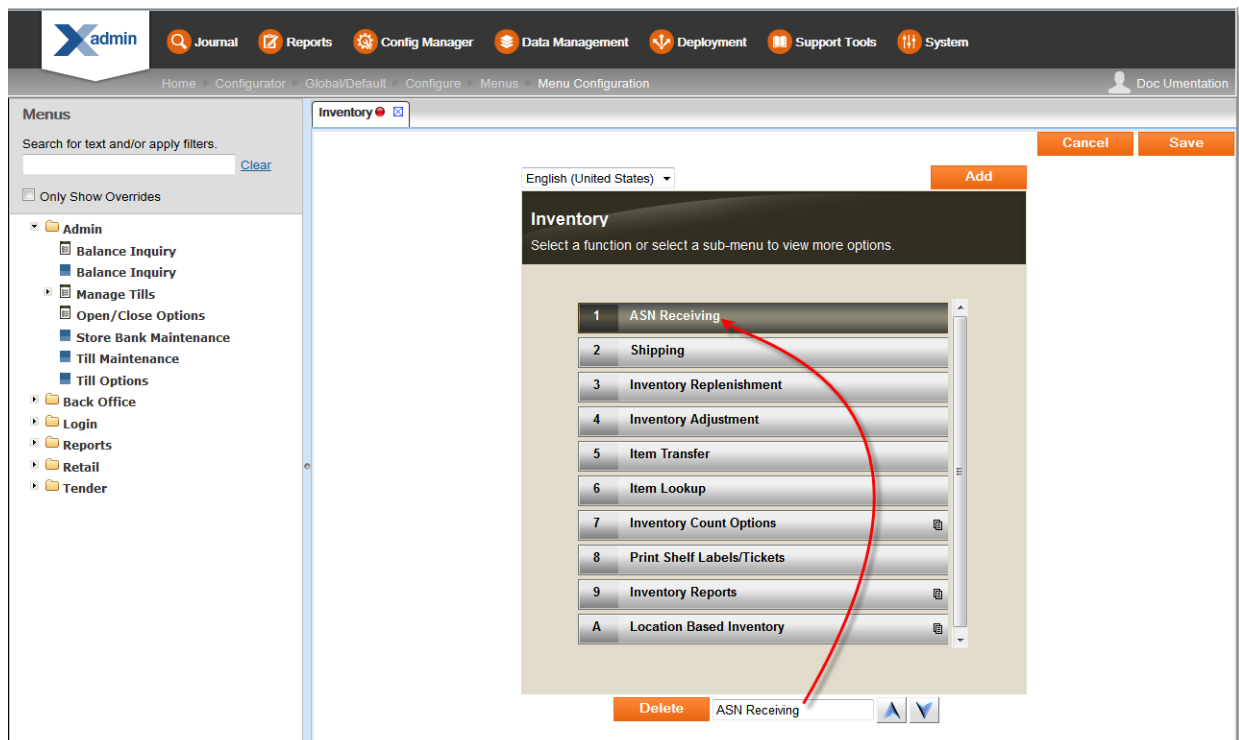


Figure 5-12: Menu List Example - New Text



Figure 5-13: Menu Button Example - New Text

2. [OPTIONAL] Select a locale to view the menu as it will be displayed in a different locale. This option will only show the locales set up for your organization.

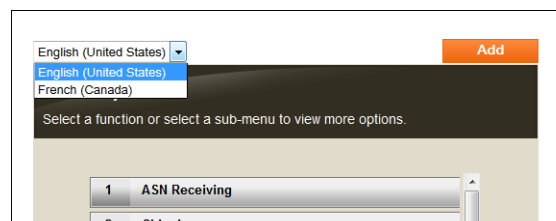


Figure 5-14: Available Locales List

3. Click **Save**.

Notes: About this page:

- The red icon  in the tab indicates this configuration change has not been saved.
- To close the tab, click the close icon . You will be prompted if there are unsaved changes.
- Click **Cancel** to discard your changes.

Removing a menu option

1. Select the menu option to be removed and click the **Delete** button. The menu option will be removed from the menu. The other menus will be shifted accordingly.

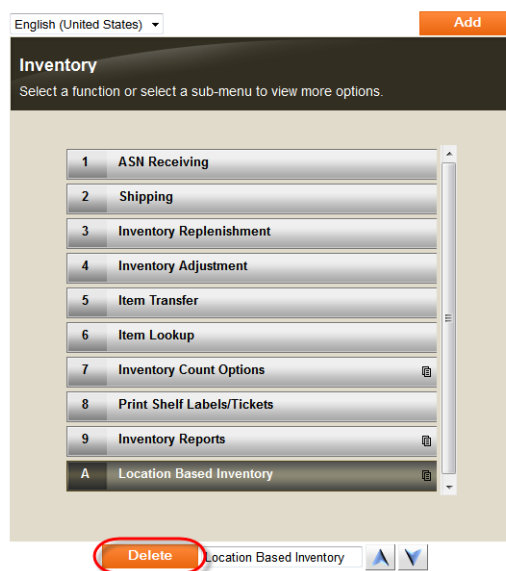


Figure 5-15: Menu List Example - Delete Selected Menu

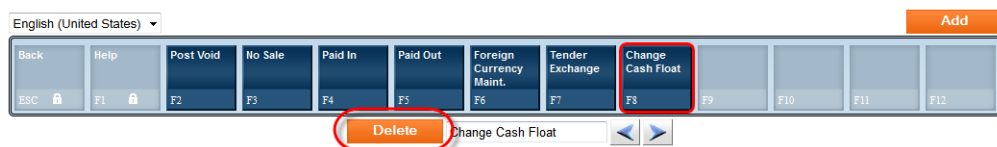


Figure 5-16: Menu Button Example - Delete Selected Menu



If needed, click **Cancel** if you want to discard your changes before saving.

2. Click **Save**.

Changing a menu option location

For Menu Buttons:

1. Select the menu button to be moved and click the Left and Right arrows   to change the menu button location within the menu. The other menu buttons will be shifted accordingly



The  icon associated with a menu button indicates this button is "locked" in this location and cannot be moved. The Left and Right arrows will be disabled since the menu button cannot be moved.



Click **Cancel** if you want to discard your changes before saving.

2. Click **Save**.

For Menu Lists:

1. Select the menu option to be moved and click the Up and Down arrows   to change the menu option location within the menu. The other menus will be shifted accordingly.



Click **Cancel** if you want to discard your changes before saving.

2. Click **Save**.

Adding a New Menu Option



Adding new options to menus assumes you have a working knowledge of how and where the menus are used in the Xstore application.

1. With the menu displayed, click **Add**.

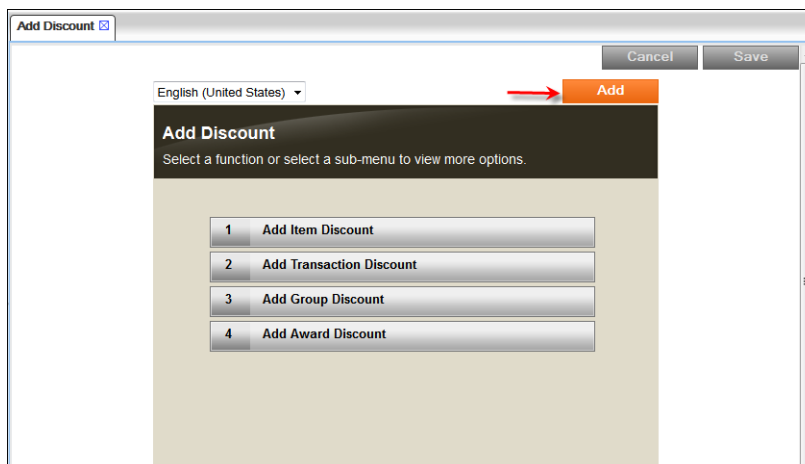


Figure 5-17: Menu List Example

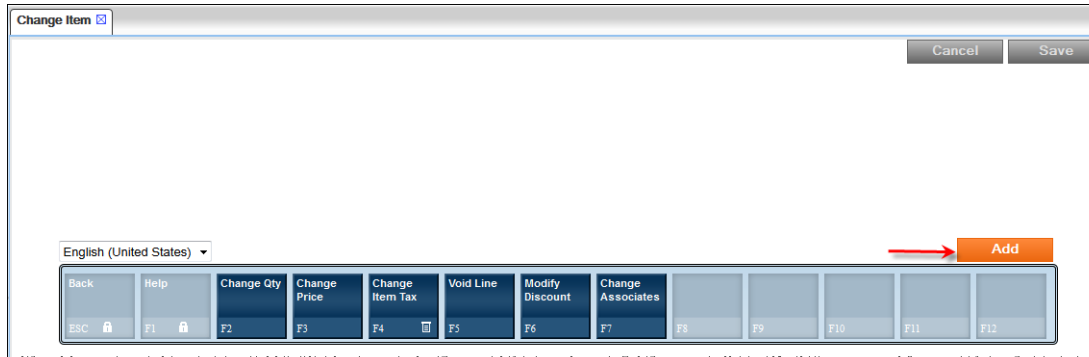


Figure 5-18: Menu Button Example

- At the *Add Action* window, select a menu option to be added to the selected menu and click **Accept**.

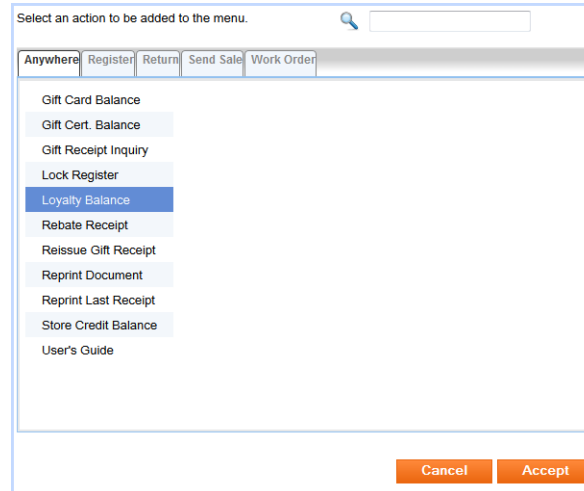


Figure 5-19: Add Action Window



To find a menu option quickly, type the name in the search field.



Clicking **Cancel** will return to the menu without making any changes.

- When prompted, click the location for the new menu option. The other menu options will be adjusted accordingly if needed.

Menu List Example

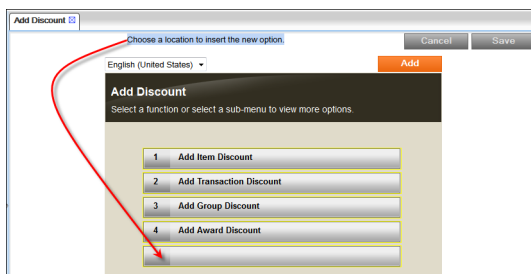


Figure 5-20: New Menu Option Location

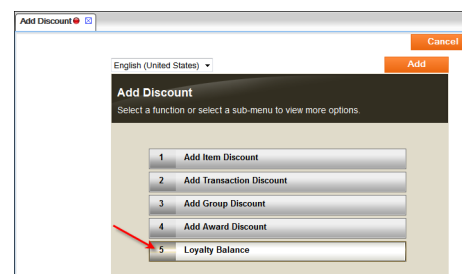


Figure 5-21: New Menu Option Added

Menu Button Example

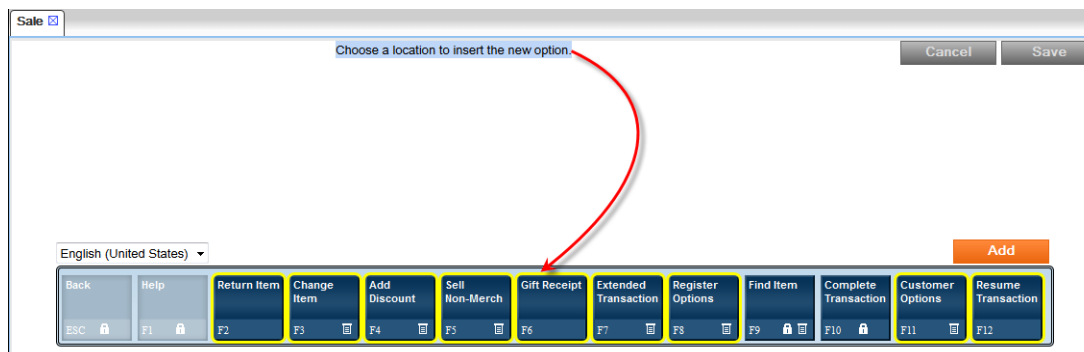


Figure 5-22: Menu Buttons - New Menu Option Location

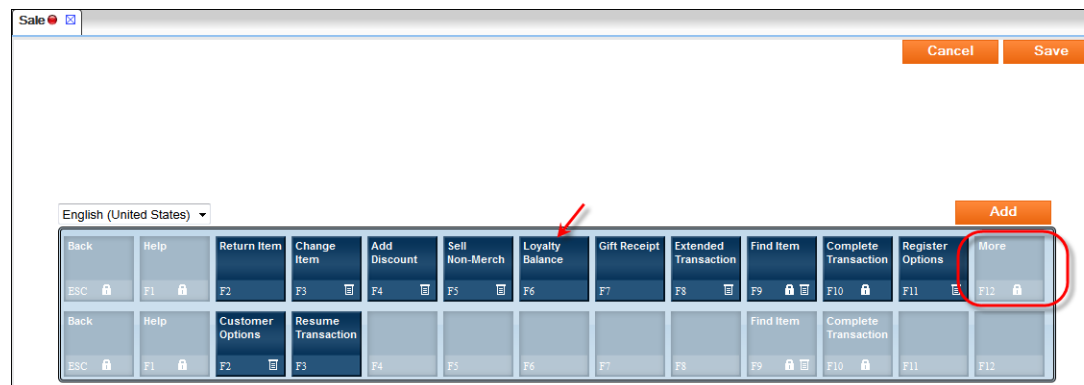


Figure 5-23: Menu Buttons - New Menu Option Added

Note: In the menu button example shown above, the **More** button was added automatically to accommodate the new menu option.

4. Click **Save**.

Xstore Tab Configuration

The Xstore Tab Library contains a set of ready-to-implement tabs and widgets that can be easily incorporated into Xstore to enhance the user experience. The Tab Library provides multiple options for information tabs and web widgets, beyond the five standard tabs traditionally provided in the Information area with base Xstore. You can select from an array of pre-defined widgets and tabs in the library to be displayed in Xstore.

In addition, these tabs can be configured to work in different contexts. For example, tabs that display in "login mode" may not be the same tabs that are available during "transaction mode".



Additional configuration may be required to set up the information found on the various tabs. The tab configuration feature described here is used to manage which pre-defined tabs are used in Xstore and where they will appear.

Security privileges are required to use this feature:

Security Privilege	Description
Configurator	This privilege allows the user to access the menu config option from the configurator landing page
Menu Configuration	This privilege allows the user to access the actual menu config feature.
Tab Configuration	This privilege allows the user to access the tab library config feature.

The base implementation of Xstore displays five information tabs: Info, Tasks, (Sales) Goals, Messages, and Keypad. The tabs and widgets in the library can be used in place of—or in addition to—the tabs provided with base Xstore.



It is possible to add more or less than the standard five tabs delivered in base Xstore; however, for best results MICROS recommends a limit of five tabs per context.

Perform the following steps to configure which tabs will be in use, and where they will be displayed.

1. After selecting **Tab Library Configuration** at the Menu Options page ([Figure 5-10 on page 65](#)), the Tab Library Configuration page displays.

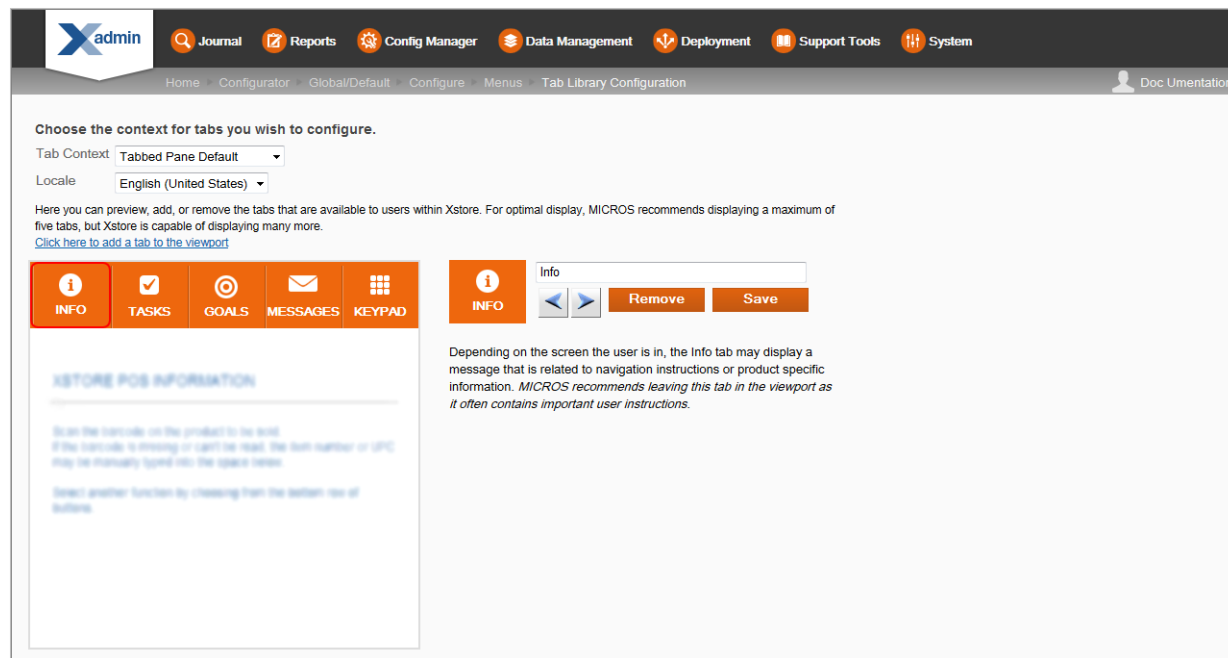


Figure 5-24: Tab Library Configuration Page



This page shows the current tab layout for the selected context (Default or Transaction). Any text located within the tab area will appear blurred and is simply shown to illustrate the tab's content.

2. At the Tab Library Configuration page, choose the tab context from the drop-down list:
 - ☐ **Tabbed Pane Default** - The tabs that are available when not in a transaction.
 - ☐ **Tabbed Pane Transaction** - The tabs that are available during a transaction.
3. [OPTIONAL] Select a locale to view the tab as it will be displayed in a different locale. This option will only show the locales set up for you organization
4. Choose from the following options for the selected tab context:
 - ☐ To add a new tab, see ["Adding a New Tab" on page 77](#).
 - ☐ To remove a tab, see ["Removing a Tab" on page 77](#).
 - ☐ To move a tab, see ["Moving a Tab Position" on page 77](#).
 - ☐ To change the tab name, see ["Changing a Tab Name" on page 77](#).
5. After saving the tab configuration, you can perform the following options:
 - ☐ To deploy your changes, see ["Deploying Configuration Changes" on page 118](#).
 - ☐ To view a summary list of a profile element's configuration changes to identify how it differs from the global configuration, see ["Viewing Configuration Changes" on page 123](#).

- ❑ **[CONFIGURATION OVERRIDES & STORE SPECIFIC OVERRIDES ONLY]** - To delete the current profile element configuration changes, see [“Delete Profile Configuration Overrides” on page 125.](#)
- ❑ **[STORE SPECIFIC OVERRIDES ONLY]** - To copy store configurations from another store, see [“Copy Store Configurations” on page 128.](#)

Adding a New Tab

1. At the Tab Library Configuration page, click the [Click here to add a tab to the viewport](#) link.
2. At the Add Tab window, select a tab from the drop-down list and click the **Add** button.



To close the Add Tab window without making any changes, click the  button.

The tab is added to the information area image.

3. Click **Save** to save your changes.

Removing a Tab

1. At the Tab Library Configuration page, click the tab you want to remove.
2. With the tab selected, click the **Remove** button.
3. When prompted, click **Yes** to confirm you want to remove the selected tab.

The tab is removed from the information area image.

4. Click **Save** to save your changes.

Moving a Tab Position

1. At the Tab Library Configuration page, click the tab you want to move.
2. With the tab selected, click the navigation buttons   to move the selected tab's position left or right.
3. Click **Save** to save your changes.

Changing a Tab Name

1. At the Tab Library Configuration page, click the tab you want to rename.
2. With the tab selected, type a new name for the tab.
3. Click **Save** to save your changes.



Although the tab name is not a required field in Xadmin, Xstore expects a name and will display a translation error if the name is not specified here.

Menu System Configuration



The system configuration options for menus in this feature are simply a subset of the system configuration options available from Xstore System Config Options. See "[Configuring Xstore System Config Options](#)" on page 90 for more information.

The following configurations apply specifically to menus. The categories have been set up as follows:

- [Help](#)
- [Register Configuration](#)
- [Store Specific](#)

Help

- **Name Of Help Menu** - The menu to be displayed when the Help button is selected. The set of actions to be run for the menu are defined in `MenuConfig.xml`.

Register Configuration

- **The Number Of Buttons On A Menu** - This determines the number of buttons on a menu. Users are required to make a corresponding change to `UIConfig.xml`. These settings will not impact the Xmobile menu layout which will remain fixed at a 3 x 2 grid.

Store Specific

- **Hide Menu Options From Users That Lack Access?** - This is used to hide menu options the user does not have security privileges to use. Answer **yes** to hide the menu option completely. Answer **no** to display the option as disabled.

Configuring Receipts



Receipt configuration is limited to certain receipts, and to specific areas within those receipts.

...continued from [step 4 on page 54](#)

1. Select a receipt option:

- ☐ **Find Receipt By Transaction** - Select this option if you want to make your edits based on a specific receipt from a known transaction. See ["Finding the Receipt by Transaction" on page 84](#).
- ☐ **Find Receipt By Type** - Select this option if you want to make your edits based on a specific type of receipt. See ["Finding the Receipt by Type" on page 80](#).
- ☐ **Change Receipt Logo** - Select this option to change the logo that displays on your sales receipts. See ["Changing the Receipt Logo" on page 85](#).
- ☐ **Receipt System Configuration** - Select this option to configure system configuration settings specific to receipts. See ["Receipt Configuration: System Configuration Options" on page 86](#).

2. After completing receipt setup, you can perform the following options:

- ☐ To deploy your changes, see ["Deploying Configuration Changes" on page 118](#).
- ☐ To view a summary list of a profile element's configuration changes to identify how it differs from the global configuration, see ["Viewing Configuration Changes" on page 123](#).
- ☐ **[CONFIGURATION OVERRIDES & STORE SPECIFIC OVERRIDES ONLY]** - To delete the current profile element configuration changes, see ["Delete Profile Configuration Overrides" on page 125](#).
- ☐ **[STORE SPECIFIC OVERRIDES ONLY]** - To copy store configurations from another store, see ["Copy Store Configurations" on page 128](#).

Finding the Receipt by Type



For a receipt type to be available here, an actual transaction must exist that uses the receipt type.

1. Select a receipt type (and a locale if applicable) from the list and click **Search**.

Figure 5-25: Receipt Types



Searching For Receipts By Type

- The Locale drop-down field defaults to the locale of the current user. Locale is used to find the selected receipt types that match to the selected locale. For example, if Espanol is selected from the Locale list, only those receipts that are assigned to the Espanol locale will be displayed.
- If the search yields no results, a message is shown below the receipt list. **No matching receipts were found.**

2. At the Receipt Configuration page, select a receipt from the Receipt Options drop-down list. The Receipt Options drop-down list contains the various receipts available for the selected receipt type.
3. The Edit Receipts page displays.



The initial view of the Edit Receipts page automatically displays the first receipt type in the drop-down list.

Select a receipt to configure and click on a highlighted section to change the text for it.

Receipt Options: Bounce Back Coupon

Transaction # _____

Date Redeemed ____ / ____ / ____

Bounceback Coupon 10% off Code C111
April 24-May 04

Come back and save 10% off your next purchase* up to

0.00

* This offer is valid 4/24/14 through 5/4/14 towards a purchase at any qualifying location.

Do not detach coupon from original sales receipt. Coupon must be attached to original receipt for redemption.

Not redeemable for cash, credit or a gift card. No change will be given, whether in the form of cash, credit, or gift card.

Coupon cannot be replaced, reissued or combined with any other coupon or promotional offer.

Selected Date: Apr 24, 2014

Refresh

No Section Selected

Start Date	End Date	Text	Status
No records were found that match the specified criteria.			

Add New

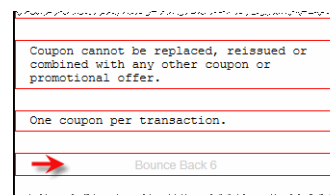
Figure 5-26: Edit Receipts Page - Bounce Back Coupon Receipt Example

Notes: About the Edit Receipts Page

- The calendar date and receipt view default to the current day. If applicable, use the calendar to select another date to view the receipt with the text entries for that specific date. Click the **Refresh** button to update the receipt for the new date.
- If the receipt you selected cannot be edited, you will see this message and the receipt will appear as a gray image. You can select another receipt from the list, or use the navigation breadcrumbs to return to the previous screen.

This receipt is not editable.

- If a receipt section is not enabled for the current receipt, the section is shown as a watermark with a white background and gray text, but can be edited.

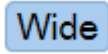


4. Click on an area of a receipt that is highlighted in red to change it. The selected section will be highlighted in green to indicate it is the active section. The text area on the Edit Receipts page shows all existing entries for the selected section and the effective dates if applicable.
5. At the Edit Receipts page (Figure 5-26), add new text or edit existing text:
 - ❑ To **edit** an existing line of text, click the text line to open the Edit Receipt Text window and make your receipt changes as needed.
 - ❑ To add new text, click the **Add New** button to open the Edit Receipt Text window and add new text as needed.

Figure 5-27: Edit Receipt Text Window

- Receipt Text** - Type the text as it should appear on the selected section of the receipt.
- Dates** - [OPTIONAL] Date fields are not required. If there are no dates for a row, the text will always be displayed for the selected section. To create date-defined text for the selected section of the receipt, enter a **Start Date** and **End Date** for the length of time the text will be printed on the receipt. This provides the ability to set up future text for each section in a receipt without affecting the current receipt. Leave the End Date field blank if there is no ending date. Leave both date fields blank if there are no date restrictions. To view the receipt changes for a specific date, select the date and click **Refresh**.
- Locale** - [OPTIONAL] To add or edit receipt text for a different locale, select a locale from the locale drop-down list and enter translated text. This option is only available if multiple locales have been set up for your organization.

- d. **Text Format** - [**OPTIONAL**] Use the following icons to format the text on the receipt. When an icon is selected, the format will be applied to all of the text in the box, even if only part of the text was selected at the time. When a format option is selected, the icon changes to a blue background. If you need to remove a format from the text, click the blue icon to remove the formatting. The icon will now be white, indicating the format is not applied.

Icon	Format Result
	Click this icon to make the text bold.
	Click this icon to italicize the text.
	Click this icon to underline the text. When choosing to underline text, most receipt printers will underline the entire row whether there is text there or not. For example: <u>Thanks for shopping!</u> Xadmin displays the full underline on the Receipt view; however, it is not shown in the text area of the page.
	Click this icon to make the text double wide. Xadmin displays the double-wide text spacing on the Receipt view; however, it is not shown in the text area of the page.
	Click this icon to make the text double high. Xadmin cannot display the double-high text on the Receipt view or in the text area of the page.

- e. **Disabled/Enabled** - The receipt text is enabled by default. To disable the receipt text, click the **Is this text enabled?** check box to remove the check mark. Disabled text is not shown in the receipt view.

6. Click **Save**.

- The receipt view displays and shows your changes using the updated Start date.

Select a receipt to configure and click on a highlighted section to change the text for it.

Receipt Options: **Bounce Back Coupon**

Come back and save 10% off your next purchase* up to 0.00

* This offer is valid 4/15/14 through 4/25/14 towards a purchase at any qualifying location.

Do not detach coupon from original sales receipt. Coupon must be attached to original receipt for redemption.

Not redeemable for cash, credit or a gift card. No change will be given, whether in the form of cash, credit, or gift card.

Coupon cannot be replaced, reissued or combined with any other coupon or promotional offer.

Up to two coupons per transaction will be honored this week. Thanks for your patronage!

Coupon cannot be applied to employee purchases or for the purchase of gift cards.

Selected Date: Apr 16, 2014

Refresh

Bounce Back 5 Add New

Start Date	End Date	Text	Status
Apr 16, 2014	Apr 22, 2014	Up to two coupons per transaction will be honored this week. Thanks for your patronage!	
Apr 15, 2014	Apr 15, 2014	Only one coupon allowed per transaction.	

Figure 5-28: Edit Receipts Page - Modified Receipt Text Example

 If there are multiple entries with the same or overlapping dates, the entries will all display on the receipt. Order will be determined by when the row was added. The order on the receipt will match the order in the text area of the Edit Receipts page.

Finding the Receipt by Transaction

- Complete all the fields to locate the receipts from a specific transaction: **Store** number, **Date** the transaction was completed, **Register** identifier where the transaction was rung, and the **Transaction** number.

Find Receipt By Transaction

Find receipts using the identifying information from a specific transaction.

Store: Register #:

Date: Trans #:

Search

Figure 5-29: Input Fields

- Click **Search** to return a list of the receipts for the transaction.
- Continue with [step 3 on page 80](#). The process for modifying receipts either by transaction receipt or by receipt type is the same from this point forward.

Changing the Receipt Logo

Notes: About the logo file format

- Only black and white images may be used.
- Only bitmap (.bmp) format is supported.
- File size cannot exceed 100KB.
- Image width cannot exceed 400 pixels.

1. With your current logo displayed, click the **Change** button.

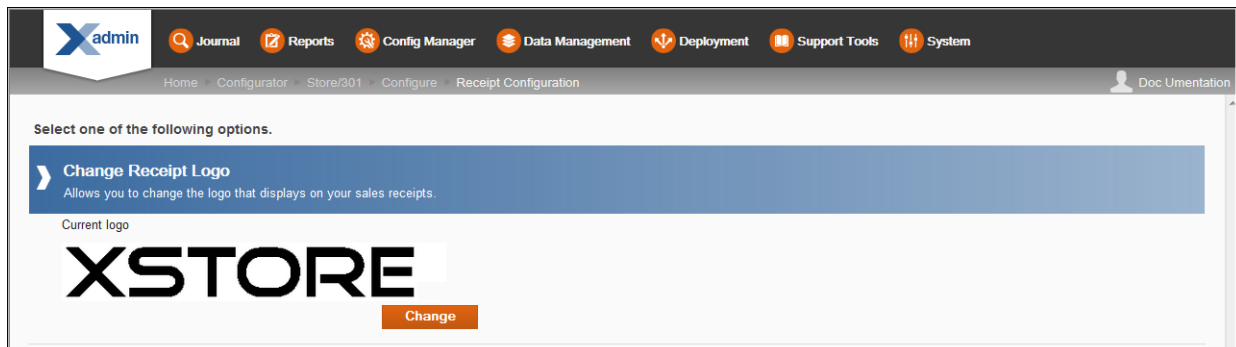


Figure 5-30: Change Receipt Logo Option

2. Click **Browse** to browse for the new logo file for the receipt.

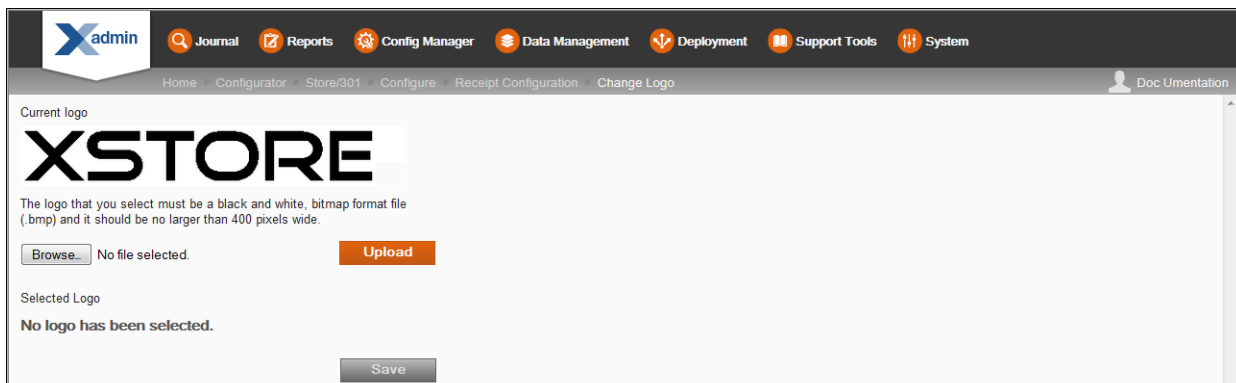


Figure 5-31: Receipt Configuration - Choose and Upload File

3. After locating the correct file, click **Upload** to import the file.



- If this is not the logo you want to use, click **Browse** to find a different logo.
- If the file format for the new logo you selected is not supported, you will see this message. Click **Browse** to find a different logo.

(Refer to ["About the logo file format" on page 85](#) for the supported image formats).

The logo that you select must be a black and white, bitmap format file (.bmp) and it should be no larger than 400 pixels wide.

❗ The selected file was not a valid bitmap image.

micros.png

Selected Logo

No logo has been selected.

4. With the new logo displayed, click **Save**.

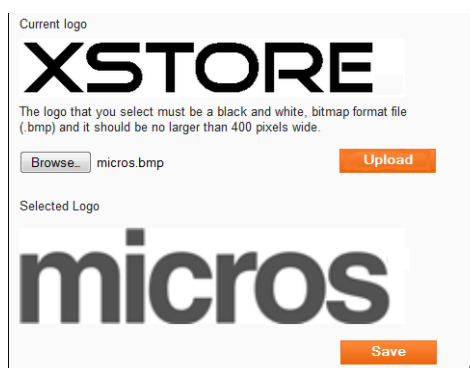


Figure 5-32: New Logo Uploaded

5. The new logo is now shown in the *Current Logo* section of the page.

Receipt Configuration: System Configuration Options

The following configurations apply specifically to receipts. The categories have been set up as follows:

- | | |
|---|---|
| ■ "Charity" on page 87 | ■ "Kit Options" on page 88 |
| ■ "Commission Options" on page 87 | ■ "Layaway" on page 89 |
| ■ "Discount Options" on page 87 | ■ "Loyalty Options" on page 89 |
| ■ "Email Settings" on page 87 | ■ "Send Sale" on page 89 |
| ■ "Gift Receipts" on page 88 | ■ "Till Accountability" on page 89 |
| ■ "Gift Registry" on page 88 | ■ "Training Mode" on page 89 |
| ■ "Inventory Location Based" on page 88 | ■ "Transaction Behavior" on page 89 |
| ■ "Item Options" on page 88 | |



The system configuration options for receipts in this feature are simply a subset of the system configuration options available from Xstore System Config Options. See ["Configuring Xstore System Config Options" on page 90](#) for more information.

Charity

- **Enable Printing Charitable Contribution Line Item On The Receipts?** - Enable/Disable the donation line item being printed on the receipts.
- **Enable Printing Charity Footer Message On The Receipts?** - Enable/Disable the charity footer message being printed on the receipts.

Commission Options

- **Print Sales Associate First Name On Receipts?** - Determines whether the system prints the first name of the current transaction's commissioned associates on the sales receipts.
- **Print Sales Associate Last Name On Receipts?** - Determines whether the system prints the last name of the current transaction's commissioned associates on the sales receipts.
- **Print Sales Associates Using Multiple Lines On Receipt?** - Determines whether the system prints each commissioned associate on a new line (**Yes**) or all commissioned associates on one line (**No**) on the sales receipts.

Discount Options

- **Minimum Threshold For You Saved Amount.** - Enter the minimum amount of customer savings required for the system to print the customer savings information on the sales receipt.
- **Print You Saved Amount On Receipts?** - Determines whether the system prints customer savings information on the sales receipt.

Email Settings

- **Default Email Host?** - Specify the default email host name used for emailing customer receipts.
- **Default Receipt Email Subject.** - Specify the default subject for an emailed receipt. The value is specified in `translations_en.properties`.
- **Font Settings For The Email Text Used When Sending Receipts.** - Specify the font family and size for email receipt text.
- **Prompt To Email Receipts?** - Determines whether users are always prompted with the option to email receipts to customers.
 - ☐ Select **Yes** to always prompt to ask the customer if they want receipts emailed.
 - ☐ Select **No** and the system will check the email permissions for the customer and will only email if the permission is set to yes.
- **Save Updated Email Address To Customer Record?** - Determines whether customer email addresses are updated and saved to the customer record during the process of emailing a transaction receipt.

- **Send Receipts Via Email?** - This is the global on/off switch for sending email receipts. Select **Yes** to enable the functionality. Receipts are emailed to customers if the receipt is configured as an email receipt.
- **Translation Key For The Sender Name Of Emailed Receipts.** - Specify the translation key for the sender name of receipt emails. The value is specified in `translations_en.properties`.

Gift Receipts

- **Allow User To Choose Gift Receipt Print Method?** - Determines whether the system allows the user to choose to print a gift receipt for each item or one gift receipt for all items.
 - ☐ Select **Yes** to allow the user to choose whether to print a gift receipt for each item or one gift receipt for all items.
 - ☐ Select **No** to not allow the user to choose a gift receipt type option.
- **Maximum Gift Receipts That Can Be Printed.** - Enter the maximum number of gift receipts allowed to be printed by the system before a manager override is required.
- **Print One Receipt Per Gift Item?** - Used when the quantity of a line item is greater than one. Determines whether the system prints a separate gift receipt for each item (**Yes**), or prints one gift receipt for the total quantity (**No**).
- **Prompt User To Group Gift Receipts?** - Determines if the associate is prompted to group items onto one or many gift receipts at the customer's discretion.

Gift Registry

- **Automatically print gift receipts for items purchased from a gift registry?** - Determines whether the system automatically adds a gift receipt to an item purchased from a gift registry. Select **Yes** to have the gift receipt automatically added to an item purchased from a gift registry.

Inventory Location Based

- **Print Inventory Location Sold From On Receipt?** - Determines whether the system prints the inventory location from which an item was sold on the receipt.

Item Options

- **A List Of Non-Merchandise Item Types That Are Included In Item Count.** - Select the non-merchandise item types that will be included in the total item sold count on the sales receipt. Valid Values: Voucher, Loyalty Card.

Kit Options

- **Link The Component Quantity Of A Kit To The Kit Quantity For Receipts?** - Determines whether the quantity of the kit component rows on the virtual and real receipts are linked to the quantity of the kit item.
 - If **Yes**, the component item quantity displayed will be multiplied by the quantity of the parent kit line item.
 - If **No**, the component item quantity will not change, regardless of the parent kit line item's quantity.

- **Maximum Number Of Kit Components To Display On A Receipt.** - Enter the maximum number of kit components to display on the virtual receipt for a kit item. If there are more kit components than rows available for display, the last row will be used to display a continuation string, such as an ellipsis (...).

Layaway

- **Print Layaway Merchandise Ticket Per Item?** - Determines whether the system prints a separate merchandise ticket for each layaway item at setup.
- **Print Layaway Merchandise Ticket With All Items?** - Determines whether the system prints a merchandise ticket for a layaway account.
- **Print Layaway Specific Receipt?** - Determines whether the system prints a layaway receipt that contains only layaway account and item information. Line items belonging to other sale types (i.e. sales or returns) will not be included on this receipt.

Loyalty Options

- **Show Loyalty Card Expiration Date?** - Determines whether to show the loyalty card expiration date in the display and on the receipt.

Send Sale

- **Print Merchandise Ticket For Send Sale Items?** - Determines whether the system prints a merchandise ticket for each send sale item sold.

Till Accountability

- **Print Total Cash Pickup Amounts On Closing Till Receipts?** - Determines whether the system prints the total cash pickup amount on closing till count receipts.

Training Mode

- **Restrict Printing Of Receipt Confirming Training Mode Enter And Exit?** - Determines whether the system prints receipts for entering and exiting training mode. (Training mode must be enabled on the register for this option to be valid.)
- **Restrict Receipt Printing In Training Mode?** - Determines whether the system prints receipts in training mode. (Training mode must be enabled on the register for this option to be valid.)

Transaction Behavior

- **Print Store Copy Of Receipt When Sigcap Used?** - Determines whether the system prints a store copy sales receipt if the customer signature is captured by a signature capture device.
- **Print Suspended Transaction Receipt?** - Determines whether the system prints a receipt when suspending a retail transaction.

Configuring Xstore System Config Options



*This option replaces the standard process of manually managing the `SystemConfig.xml` file. If you use this Xadmin configuration tool, `SystemConfig.xml` files should **not** be created manually and installed in any store/register (via config path).*

If any `SystemConfig.xml` files are manually created and installed in any store/register (via config path), the changes they contain will work in Xstore as they always have; however, these configurations will be totally unknown to this System Config option and may possibly impair its ability to work properly.

...continued from [step 4 on page 54](#)

To Use the System Config Search Feature

1. At the System Configuration page Search box, do one of the following:

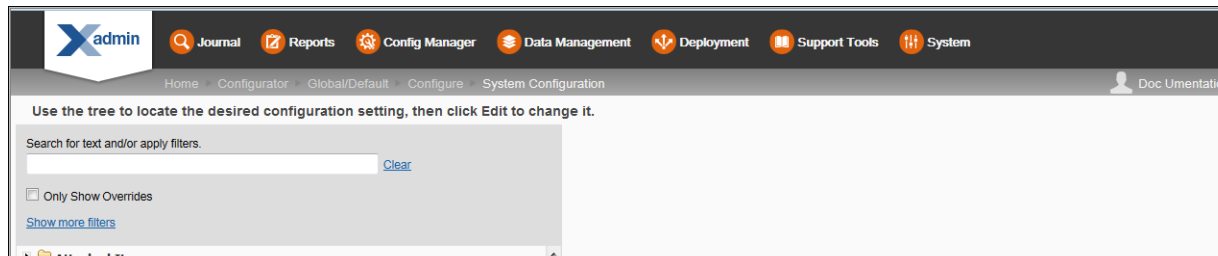


Figure 5-33: System Configuration Page - System Config Search Box

- ☐ To find system configurations containing specific text, enter the search text in the input box, then press [Enter]. The text typed here can be found anywhere within the configuration: the label, the description, the module, or the config path itself. The results are shown in the left panel (folder tree). Only those configurations containing the specified text within the label, description, module, or config path are displayed. If needed, click [Clear](#) to remove the search criteria and return to the default System Configuration page.
- ☐ To view only system configuration categories and configuration options with overrides, select the *Only Show Overrides* check box.

About Configuration Overrides

A configuration marked as an override differs between scopes:

- Within the **Global** scope, an override means that the state of the configuration varies from **Xstore's base** configuration.
- Within a **Profile Group/Profile Element** combination, an override means that the configuration varies from the **Global** configuration.

To return to the default System Configuration page, deselect the check box.

- ❑ To display additional filtering options, click [Show more filters](#).

Additional filter options display:

Figure 5-34: Additional Filter Options

This option provides an extra level of organization for the various configuration options, and also provides the ability to filter on just one or many tags. By default, all tags are selected. Select one or more tags to view only the related category folders. To select all tags at once, click [Include all](#). To clear all selected tags, click [Exclude all](#). When finished with the filter options, click [Hide filters](#).

2. Continue with [Viewing/Editing System Configurations](#).

Viewing/Editing System Configurations

1. On the left side of the System Configuration page, click the arrow associated with a system configuration category to open the folder and show the configuration options within the selected category.

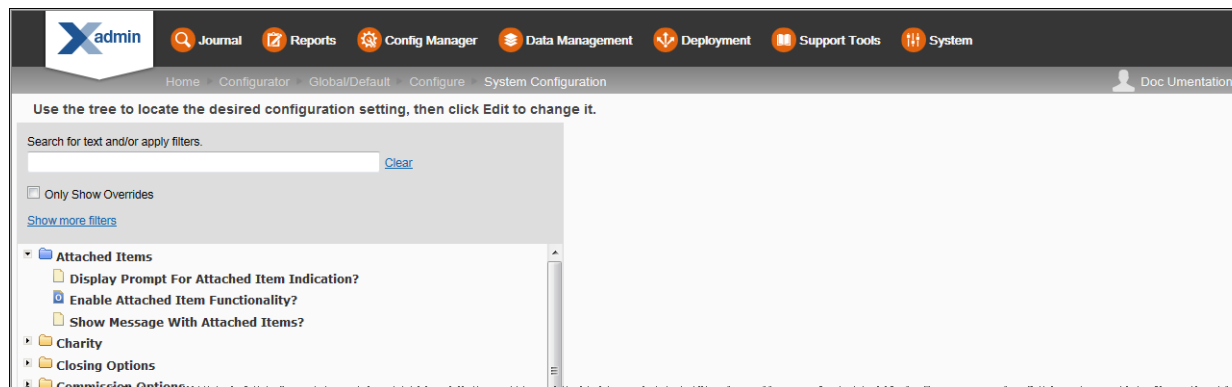


Figure 5-35: System Configuration Page - Expanded Category Folder

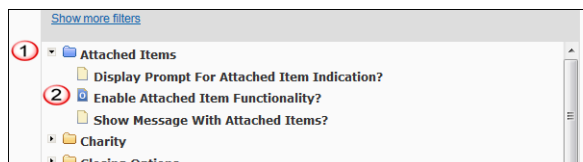


If a category contains at least one configuration option that has been overridden, the color of the folder is blue (1).

The overridden configuration option within the category is indicated by an

override icon (2).

See ["About Configuration Overrides" on page 90](#) for more information about configuration overrides.



2. Select a configuration option within the selected category to view the configuration details in the right side of the System Configuration page.

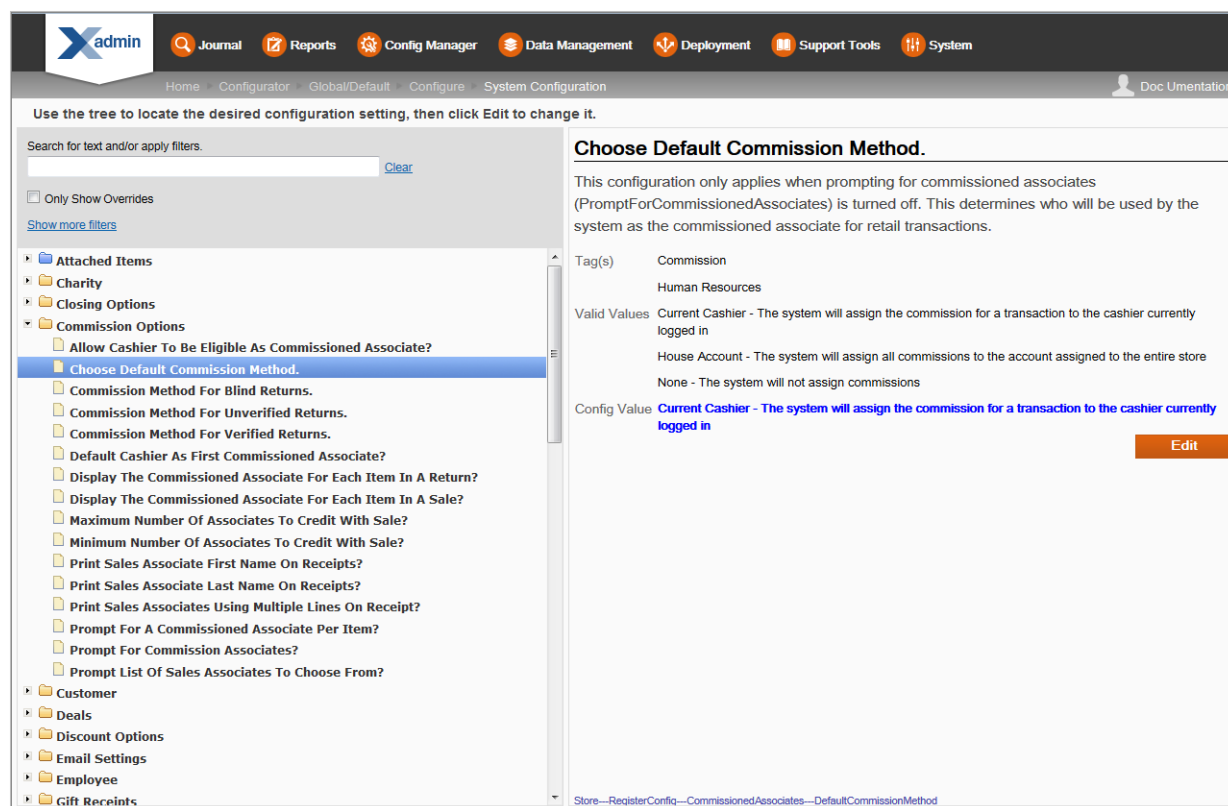


Figure 5-36: System Configuration Page - Configuration Option Detail

Detailed information shown here includes:

- ☐ The configuration name (label).
- ☐ The configuration description.
- ☐ The tag or tags associated with the selected configuration. This information can be used to filter or search for configurations.
- ☐ Valid values when applicable.

- ❑ Base Value or Global Value if the Configuration has been overridden. See Figure 5-37 below.
- ❑ The current value setting of the configuration.

Note: If this setting is different than its original value (**Base** for Global scope as shown here, and **Global** for configuration overrides) the original value is also shown in this section. See [“About Configuration Overrides” on page 90](#).

Choose Default Commission Method.	
This configuration only applies when prompting for commissioned associates (PromptForCommissionedAssociates) is turned off. This determines who will be used by the system as the commissioned associate for retail transactions.	
Tag(s)	Commission Human Resources
Valid Values	Current Cashier - The system will assign the commission for a transaction to the cashier currently logged in House Account - The system will assign all commissions to the account assigned to the entire store None - The system will not assign commissions
Base Value	Current Cashier - The system will assign the commission for a transaction to the cashier currently logged in
Override Value	None - The system will not assign commissions
Edit	

Figure 5-37: Global Scope - Base Value Override

- ❑ The path in `SystemConfig.xml` (at the bottom of the page).
[Store—RegisterConfig—CommissionedAssociates—DefaultCommissionMethod](#)

3. Click **Edit** to make any changes.
4. At the editing window you have the following options:

Use the tree to locate the desired configuration setting, then click Edit to change it.

Search for text and/or apply filters.

☐ Only Show Overrides [Show more filters](#)

Attached Items

- Charity
- Closing Options
- Commission Options
 - Allow Cashier To Be Eligible
 - Choose Default Commission Method**
 - Commission Method For Blind
 - Commission Method For Unv
 - Commission Method For Ver
 - Default Cashier As First Con
 - Display The Commissioned A
 - Display The Commissioned A
 - Maximum Number Of Associ
 - Minimum Number Of Associ
 - Print Sales Associate First N
 - Print Sales Associate Last N
 - Print Sales Associates Using
 - Prompt For A Commissioned
 - Prompt For Commission Associates?

Choose Default Commission Method.

This configuration only applies when prompting for commissioned associates (PromptForCommissionedAssociates) is turned off. This determines who will be used by the system as the commissioned associate for retail transactions.

Tag(s) Commission
Human Resources

Config Value **Current Cashier - The system will assign the commission for a transaction to the cashier currently logged in**

Edit config

☒ Current Cashier - The system will assign the commission for a transaction to the cashier currently logged in
☐ House Account - The system will assign all commissions to the account assigned to the entire store
☐ None - The system will not assign commissions

☐ Force to appear as override

[Revert to base value](#)

Figure 5-38: System Configuration - Edit Window

- ❑ **Edit Config** - Select an option or enter information as needed for the configuration.
- ❑ **Force to appear as override** check box - Select this option to label the configuration as an override.

Overrides differ between scopes. Within the Global scope, an override means that the state of the configuration varies from Xstore's base configuration. Within the Profile Group/Profile Element combination scope, an override means that the configuration varies from the Global configuration.

This setting is more than an arbitrary flag. For example, if a Profile Group/Profile Element is using the same config values as the global configuration, that means that when you change the config values for the global configuration, you are also effectively changing the config values for the profile group/profile element. Using this check box, config values marked as overrides for a Profile Group/Profile Element will not change.

- ❑ **Revert to base value** or **Revert to global value** link - Click this link to revert the configuration back to the base value (or global value for Profile Group/Profile Element combination scope).

Edit Form Navigation Options:



To close the form without saving your changes, click .

To view the previous/next configurations in the category, click .

5. Click **Save** to save your changes and return to the System Configuration Page.
6. After completing System Configuration setup, you can perform the following options:
 - ❑ To deploy your changes, see ["Deploying Configuration Changes" on page 118](#).
 - ❑ To view a summary list of a profile element's configuration changes to identify how it differs from the global configuration, see ["Viewing Configuration Changes" on page 123](#).
 - ❑ **[CONFIGURATION OVERRIDES & STORE SPECIFIC OVERRIDES ONLY]** - To delete the current profile element configuration changes, see ["Delete Profile Configuration Overrides" on page 125](#).
 - ❑ **[STORE SPECIFIC OVERRIDES ONLY]** - To copy store configurations from another store, see ["Copy Store Configurations" on page 128](#).

Configuring Xstore Security

...continued from [step 4 on page 54](#)

This option is only available for the **Global** scope.

1. Select an option from the Security Configuration page:

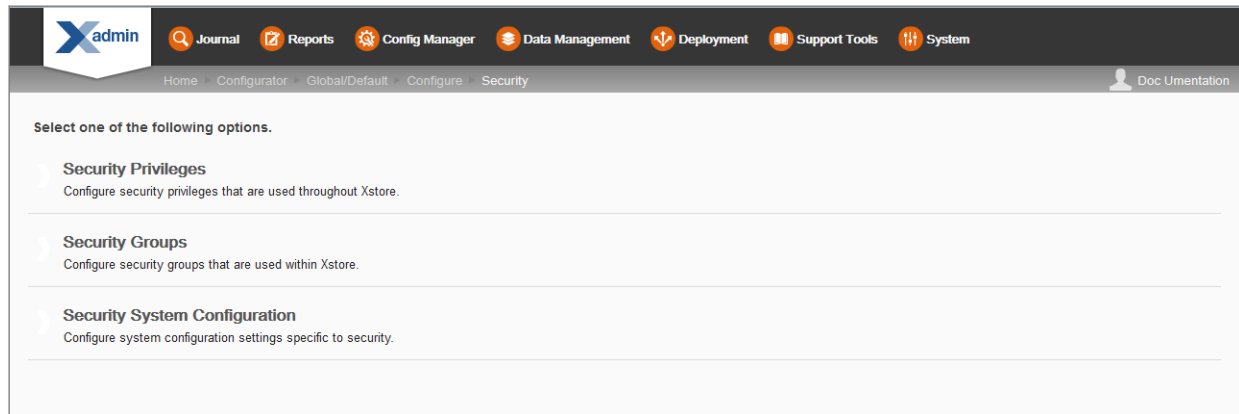


Figure 5-39: Security Configuration Page Options

- ☐ Select **Security Privileges** to set up Xstore security privileges. Continue with step 2 below.
- ☐ Select **Security Groups** to add or edit existing Xstore security groups. Skip to ["Security Groups Setup" on page 97](#).
- ☐ Select **Security System Configuration** to configure system configuration settings specific to security. Skip to ["Security System Configuration" on page 98](#).

2. At the Security Privileges page, select a privilege to edit.



To find a security privilege in the list, type any text that may be part of the privilege in the "Find a Privilege" text box at the top of the page.

3. Edit the Security Privilege as needed:

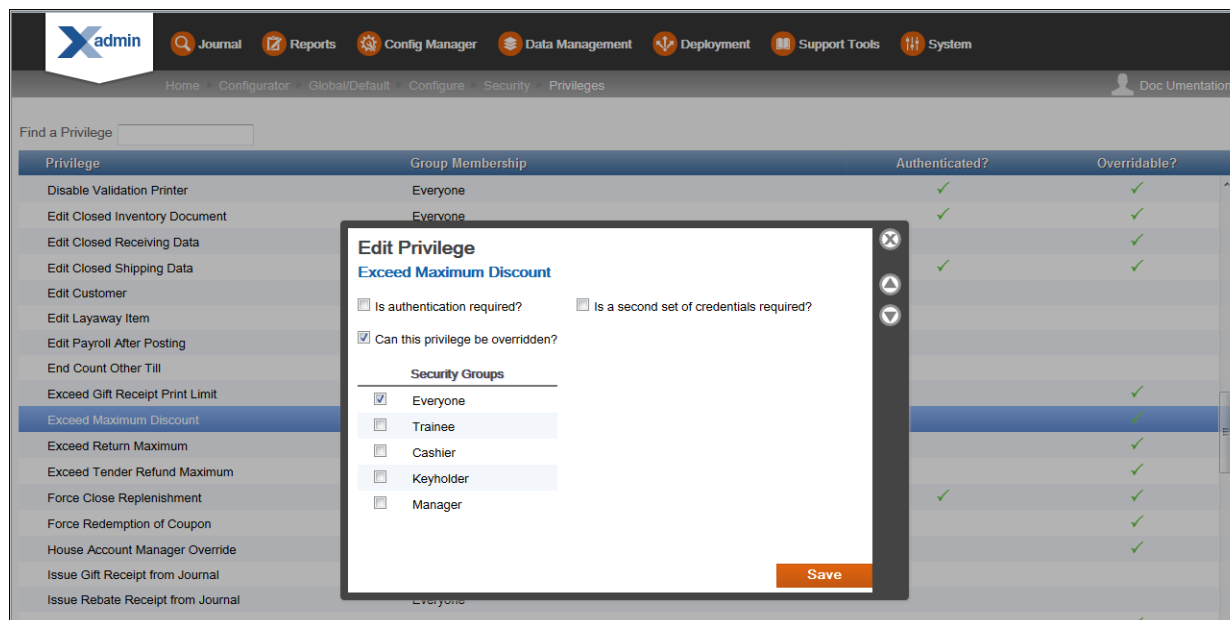


Figure 5-40: Edit Security Privilege Window

Edit Form Navigation Options:

To close the form without saving your changes, click .

To view the previous/next configurations in the category, click .

- ☐ **Is authentication required?** - Determines if the POS system should either always prompt for authentication, or authenticate against the current POS user. If selected, indicates that authentication is required for this privilege type.
- ☐ **Can this privilege be overridden?** - If selected, the privilege can be overridden.
- ☐ **Security Groups** - Select all groups that apply. For example:
 - ☐ Everyone
 - ☐ Trainee
 - ☐ Cashier
 - ☐ Keyholder
 - ☐ Manager
- ☐ **Is a second set of credentials required?** - Determines whether a second authorization is required.

If selected, complete additional information as needed:

- ☐ **Do they have to be different than the first set?** - If selected, then the same Employee ID cannot be used in both prompts.

- **Second Security Groups** - Select all groups that apply.
- 4. Click **Save** to return to the Security Configuration page.
- 5. After completing Security Privilege setup, you can perform the following options:
 - ❑ To deploy your changes, see [“Deploying Configuration Changes” on page 118](#).
 - ❑ To view a summary list of a profile element's configuration changes to identify how it differs from the global configuration, see [“Viewing Configuration Changes” on page 123](#).

Security Groups Setup

1. Select **Security Groups** from the Security Configuration page.

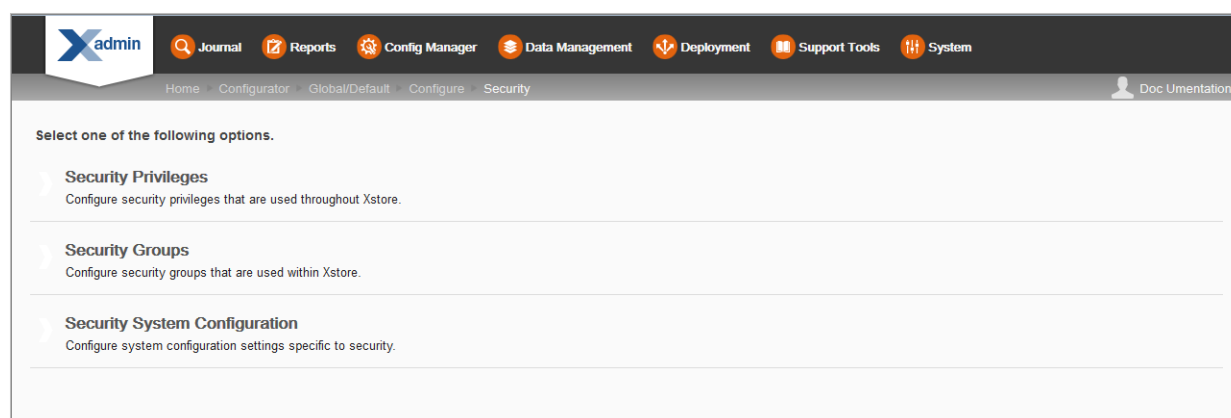


Figure 5-41: Security Configuration Page Options

2. You have the following options at the Security Groups Page:

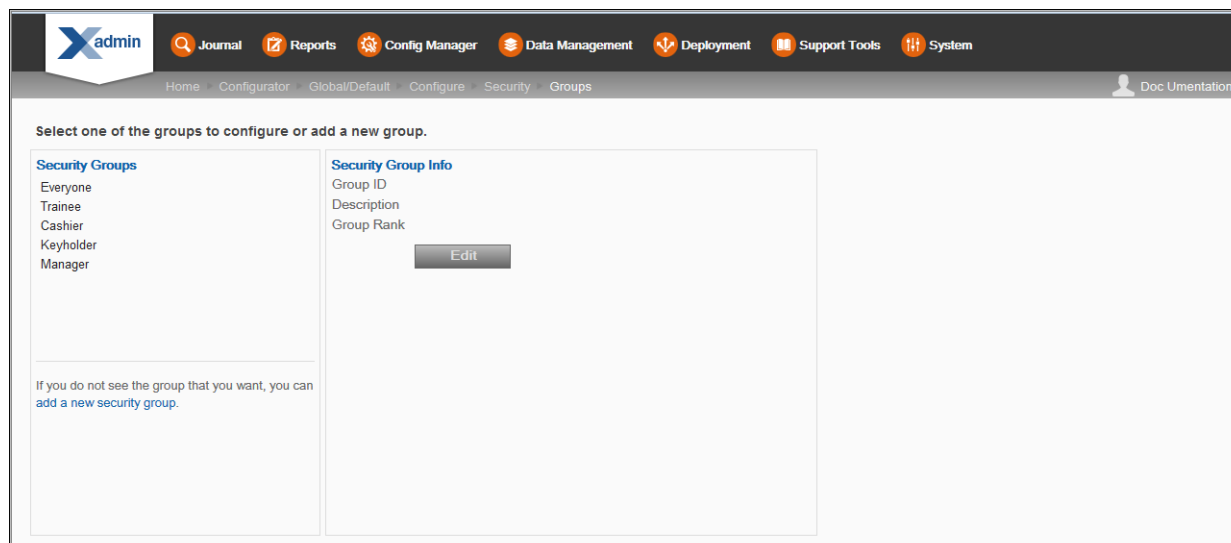


Figure 5-42: Security Groups Page

- To **add** a new Security Group, click the [add a new security group](#) link.
 - a. Enter the information in the Add Security Group window. All fields are required.


 A screenshot of the 'Add Security Group' window. It contains three input fields: 'Group ID', 'Description', and 'Group Rank'. To the right of the 'Description' field is a dropdown menu currently showing 'English (United States)'. An orange 'Save' button is located at the bottom right of the window.

Figure 5-43: Add Security Group Window

- b. Click **Save**. The new group is added to the Security Groups list.
- To **edit** an existing Security Group, select it in the Security Groups list, then click **Edit**.
 - a. Enter the information in the Edit Security Group window. Only the rank can be changed.

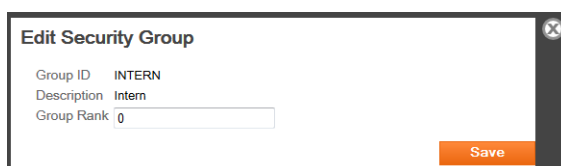

 A screenshot of the 'Edit Security Group' window. The 'Group ID' field is pre-filled with 'INTERN'. The 'Description' field is pre-filled with 'Intern'. The 'Group Rank' field is pre-filled with '0'. An orange 'Save' button is located at the bottom right of the window.

Figure 5-44: Edit Security Group Window

- b. Click **Save**.
- 3. After completing Security Groups setup, you can perform the following options:
 - ❑ To deploy your changes, see [“Deploying Configuration Changes” on page 118](#).
 - ❑ To view a summary list of a profile element's configuration changes to identify how it differs from the global configuration, see [“Viewing Configuration Changes” on page 123](#).

Security System Configuration



The system configuration options for security in this feature are simply a subset of the system configuration options available from Xstore System Config Options. See [“Configuring Xstore System Config Options” on page 90](#) for more information.

The following configurations apply specifically to security. The categories have been set up as follows:

- [“House Accounts” on page 99](#)
- [“Sales” on page 99](#)
- [“Security” on page 99](#)
- [“Store Specific” on page 100](#)
- [“Tender Options” on page 101](#)
- [“Till Accountability” on page 101](#)
- [“Warranty” on page 104](#)

House Accounts

- **Manager Override When Tender Amount Exceeds House Account Balance?** - Determines whether the system prompts for manager override if the tender amount exceeds the remaining balance of the house account. If **Yes**, and a manager-level user is logged in, the system displays the credit limit and prompts the user to proceed. If a user lower than the manager privilege is logged in, and the user chooses to proceed with exceeding the credit limit, the manager security login displays for approval.

Sales

- **Allow User To Ring His/Her Own Sale?** - Determines whether the system allows employees to ring retail transactions for themselves.

Security

- **Account Lockout Allowable Retry Attempts.** - If Account Lockout functionality is enabled, the system locks out the associate's account after this number of failed login retries. **Default:** Enabled, set to 3 attempts.
- **Allowable Retry Attempts Per Challenge Question.** - If Account Lockout functionality is enabled, the system locks out the associate's account after this number of failed challenge question retries.
- **Check For An SSL Certificate?** - This setting determines if the system will check the SSL certificate.
- **Confirm The Quantity Of A Store Replenishment Order?** - The quantity above which the user will be prompted to confirm the value entered on the store replenishment order.
- **Enable Lockout Feature For Failed Login Attempts?** - Turns on/off the Account Lockout functionality where the system locks out the associate's account after a configured number of failed login retries. **Default:** Enabled
- **Enable Password Expiration?** - Turns on/off Password Expiration functionality to expire an employee login password after a specified number of days. **Default:** Enabled
- **Password Expiration Days.** - If Password Expiration functionality is enabled, the system expires an employee login password after this number of days. **Default:** 90 days
- **Password Re-Use Restriction Count.** - Associates are not allowed to reuse the same password within this number of password resets.
- **Provide A Warning Before A Certificate Expires?** - This setting determines the maximum number of days remaining before an SSL certificate expires where the system will warn the user of the expiration.



Setting this value to 0 will set it to the default value (14).

- **Relate Default User ID.** - The default user Id that has access to Relate. This user Id must be set up in both Xstore and Relate for WSDL version 2.

- **Relate Security Type.** - Determines how user data security should be pulled from Relate. This will tell whether the security is based on the individual user, the user's role, or a default user.
 - ☐ No Security - Send the configured default user for every call. This will give the same security setting for everyone.
 - ☐ User ID - Send the actual user Id. For this option, every Xstore user must be set up in Relate.
 - ☐ User Role - Send the Primary Group Id of the user.

- **The number of password challenge questions required for employee identification.** - This setting provides the ability to dictate how many challenge questions employees must answer before being allowed to reset their password.



There are ten challenge questions stored within the database, therefore no more than ten questions can be asked.

- **Treat Security Groups As 'Greater-Than' Or 'Greater-Than Or Equal-To'.** - When creating/editing employees, this determines whether higher-ranked in `sec_groups.group_rank` means "greater than" or "greater than or equal".
 - ☐ Answer **Yes** to allow a logged in user to edit associates with a rank that is equal to or lower than the logged in associate.
 - ☐ Answer **No** if the logged in user can only edit associates with a lower rank than themselves. If set to No, the highest ranking employee in the store will be unable to create or edit an employee of equal rank. In this scenario, the information must be downloaded from the home office rather than created in the store. (For example, if Manager is the highest rank in the store, new managers must be downloaded from the home office rather than created in the store).
- **Use challenge questions for employee password reset?** - Turning this setting on will enable the use of challenge questions to identify an employee for the purpose of resetting the employee's password.



Once this is turned on, any employee that has yet to select and answer challenge questions will be forced to do so upon successfully logging into back office or register mode.

- **Which Id To Use For Employee Logon?** - Determines the type of identification the associates will use to log into the system; Employee ID or Login ID.

Store Specific

- **Default Id Type For Tenders Requiring Customer Identification.** - The default identification type used for certain tenders that require customer identification information. Valid Values: Drivers License, Social Security, Military Id, Credit Card, Employee Id, Customer Card, Any identification type

- **Hide Menu Options From Users That Lack Access?** - This is used to hide menu options the user does not have security privileges to use. Answer **yes** to hide the menu option completely. Answer **no** to display the option as disabled.

Tender Options

- **Authorization Method Code For BinSmart Lookups.** - This is the authorization method code used to perform the lookup. Valid only for Merchant Warehouse.
- **Display Cash Total?** - Only applicable for currency rounding, this indicates whether the rounded cash total is displayed below the transaction total in the viewport.
- **Enable Merchant Warehouse's BinSmart Lookups?** - This determines whether Merchant Warehouse's BinSmart lookups are used for Credit/Debit authorizations.
- **Inform Users With A Message That No Signature Is Required?** - This option controls turning off/on the information message displayed when processing a transaction below a configured value.
- **Preferred Payment Recommendation When Errors Occur.** - This is the preferred payment recommendation when an error occurs or a failed response is returned; credit or debit.
- **Require Pin Pad Entry For Debit Tender?** - Determines whether a pin pad device is required for tendering with a debit card.
- **Rounding Method To Use For Local Currency.** - The local currency amount rounding method.
 - ☐ Half Up - Round to the nearest neighbor unless equidistant, then round up.
 - ☐ Half Down - Round to the nearest neighbor unless equidistant, then round down.
 - ☐ Half Even - Round to the nearest neighbor unless equidistant, then round to even neighbor. Example: 2.5 rounds to 2 while 3.5 rounds to 4.
 - ☐ Ceiling - Round toward positive infinity. This is the opposite of FLOOR and never decreases the calculated value.
 - ☐ Down - Round to the next digit; closer to zero.
 - ☐ Floor - Round down toward negative infinity. This is the opposite of CEILING and never increases the calculated value.
 - ☐ Up - Round to the next digit; away from zero.
 - ☐ Unnecessary - Rounding is not necessary.

Till Accountability

- **Adjust Store Bank Balance By Deposit Discrepancies?** - Determines whether the system automatically adjusts the store bank balance based on the bank deposit discrepancy.
- **Display Count Balance Info On Till Close Count?** - Determines whether the system displays the till count balance and discrepancy information after the associate completes the till close count.

- **Display Options For Cash Pickup Summary.** - The cash pickup count summary screen display type.
 - ☐ Minimum - Declared amount
 - ☐ Simple - Declared amount, system amount
 - ☐ Detailed - Declared amount, system amount, over/under amount
 - ☐ Full - Currently, same as Detailed
- **Display Options For End Till Count Summary.** - The till end count summary screen display type.
 - ☐ Minimum - Declared amount
 - ☐ Simple - Declared amount, system amount
 - ☐ Detailed - Declared amount, system amount, over/under amount
 - ☐ Full - Currently, same as Detailed
- **Display Options For Mid-Day Deposit Till Count Summary.** - The mid-day deposit till count summary screen display type.
 - ☐ Minimum - Declared amount
 - ☐ Simple - Declared amount, system amount
 - ☐ Detailed - Declared amount, system amount, over/under amount
 - ☐ Full - Currently, same as Detailed
- **Display Options For Till Reconciliation Summary.** - The till reconcile count summary screen display type.
 - ☐ Minimum - Declared amount
 - ☐ Simple - Declared amount, system amount
 - ☐ Detailed - Declared amount, system amount, over/under amount
 - ☐ Full - Currently, same as Detailed
- **Display Options For Till Start Count.** - The cash count entry method used for the start count.
 - ☐ Minimum - Declared amount
 - ☐ Simple - Declared amount, system amount
 - ☐ Detailed - Declared amount, system amount, over/under amount
 - ☐ Full - Currently, same as Detailed
- **Force Re-Count Of Till With Discrepancies Over Threshold?** - Determines whether the system forces a till recount if the till close count discrepancy exceeds the threshold.
- **Method Of Counting Cash Deposit.** - The cash count entry method for a store bank deposit.
 - ☐ Total Short - User enters total cash amount only.
 - ☐ Denomination - User enters denominated cash amounts.

- **Method Of Counting For Start Till.** - The cash count entry method for a till opening count.
 - ☐ Total Short - User enters total cash amount only.
 - ☐ Denomination - User enters denominated cash amounts.
- **Method Of Counting For Store Bank Opening.** - The cash count entry method used for counting the store bank.
 - ☐ Total Short - User enters total cash amount only.
 - ☐ Denomination - User enters denominated cash amounts.
- **Method Of Counting For Till Cash Transfer.** - The cash count entry method for a cash transfer.
 - ☐ Total Short - User enters total cash amount only.
 - ☐ Denomination - User enters denominated cash amounts.
- **Method Of Counting For Till Pickup.** - The cash count entry method for a cash pickup.
 - ☐ Total Short - User enters total cash amount only.
 - ☐ Denomination - User enters denominated cash amounts.
- **Method To Count Store Bank Deposit.** - The store bank deposit till count method. This configuration is only valid if the store requires an end count of the store bank at store close.
 - ☐ **Storebank Complete** - Brings up the entire store bank end count screen for all tenders.
 - ☐ **Remaining Cash** - Prompt the user to enter the total cash NOT to be deposited to the bank institution.
 - ☐ **Complete Deposit** - Deposit all tenders from the store bank to the bank institution.
- **Notify When Cash Amount Drops Below This Threshold Amount In Till.** - When the cash amount in the drawer drops below this amount after a retail transaction is completed, an acknowledge-only prompt will appear and notify the user.
- **Print Total Cash Pickup Amounts On Closing Till Receipts?** - Determines whether the system prints the total cash pickup amount on closing till count receipts.
- **Prompt User To Open Store Bank During Store Open?** - Determines whether the system automatically prompts the user asking if they wish to open the store bank when the store is opened.
- **Require Store To Count Store Bank Deposit At Close?** - Determines whether the system requires a store bank deposit count at store close.
- **Skip Initial Count Summary?** - When initiating a count, determines whether the system displays the tender summary list or the first tender to be counted.
- **Suggested Pickup Amount Based On This Threshold Amount.** - When the cash amount exceeds this configured maximum amount, the system will prompt the associate to perform a cash pickup with the amount that is the current cash total minus this amount. This is a positive floating point number indicating the minimum amount of cash that should be left in the till following a pickup.

- **Validate Cash Refund Amounts Against The Current Till Count?** - Determines whether the system validates refund cash amounts to ensure the current till cash amount is greater than the refund cash amount.
- **Validate Store Bank Deposit Amount Against System?** - Determines whether the system validates the store bank deposit amount and prompts the associate to accept or recount if there is any discrepancy.

Warranty

- **Allow Warranties Not on File?** - Per each context (return or work order), when enabled, the system will allow the user to apply existing warranties that cannot be verified (given appropriate security clearance). When disabled, the application of unverifiable warranties will always be prohibited. Valid Values: Return, Work Order

Configuring Tenders



Only tenders of type Miscellaneous, Currency, and Credit Card can be created through Xadmin. Tender type codes (tnd_tndr_tpycode) must be pre-defined in the Xcenter database to create tenders.

Base Xstore only supports USD (US Dollar), CAD (Canadian Dollar), EUR (Euro), GBP (British Pound), and JPY (Japanese Yen) without additional Xstore changes. If support for other currencies is required, contact your MICROS representative for more information.

...continued from [step 4 on page 54](#)

1. Select an option from the Tender Configuration page:

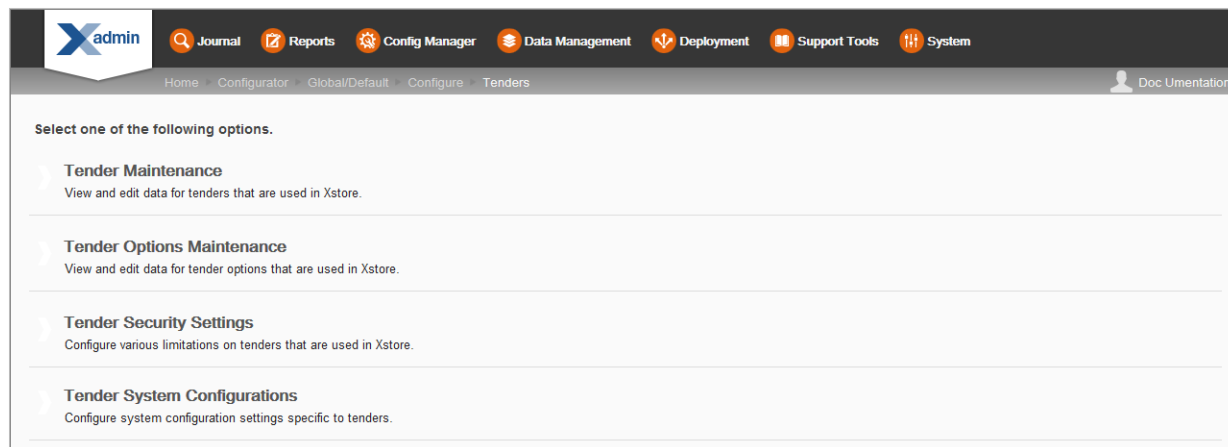


Figure 5-45: Tender Configuration Page Options

- ❑ Select **Tender Maintenance** to view and edit data for tenders that are used in Xstore. Continue with step 2 below.



The Tender Maintenance option is only available at the global level.

- ❑ Select **Tender Options Maintenance** to view and edit data for tender options that are used in Xstore. Skip to ["Tender Options Maintenance" on page 108](#).
 - ❑ Select **Tender Security Settings** to configure tender limitations in Xstore. Skip to ["Tender Security Settings" on page 111](#).
 - ❑ Select **Tender System Configurations** to configure the system configuration settings that apply specifically to tenders. Skip to ["Tender Configuration: System Configuration Options" on page 113](#).
2. Select a Tender Type from the list, then click **Next**.
 3. At the Tender Maintenance page, add a new tender or edit an existing tender:

Tender ID	Description	Currency	Status
VISA	Visa Credit Card	*(Use Local Currency)	
PRIVATE_LABEL	Private Label Credit Card	*(Use Local Currency)	
MASTERCARD	MasterCard Credit Card	*(Use Local Currency)	

Figure 5-46: Tender Maintenance Page - Credit Card Tender Example

- ❑ **If adding a new tender:**

- 1) Click **Add New**.



Only tenders of type Miscellaneous, Currency, and Credit Card can be created through Xadmin.

- 2) Complete the fields as required, then click **Next**. See ["Tender Configurations" on page 107](#) for a list of tender configuration options.
- 3) Skip to [step 4 on page 106](#) to review your selections.

- ❑ **If editing an existing tender:**
 - 1) Select the tender in the list.
 - 2) At the Tender Detail window, click **Edit**.
 - 3) Complete the fields as required, then click **Next**. See [“Tender Configurations” on page 107](#) for a list of tender configuration options.
 - 4) Continue with step 4 below to review your selections.
- 4. Review the tender information you selected:

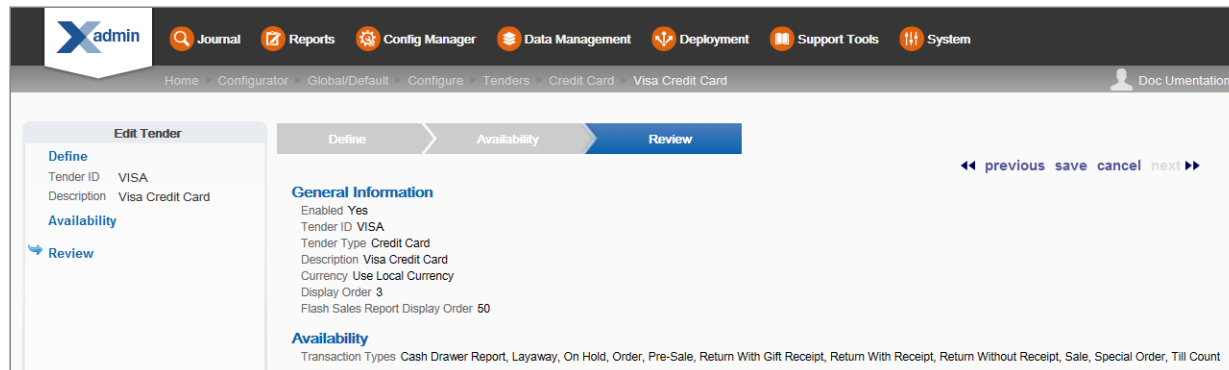


Figure 5-47: Tender Information Review

- ❑ To save the tender, click **save**. The tender is added to the Tender list.
- ❑ To edit the tender:
 - Click **previous** to go back one page **◀ previous save cancel next ▶**, or select a configuration option in the Edit Tender section in the left panel of the window.
 - After making your changes, click **save**. The new tender is added to the Tender list.
- ❑ To discard the tender changes, click **cancel**. When prompted, click **Yes** to confirm you want to cancel tender setup.
- 5. After completing tender setup, Xadmin returns to the Tender Maintenance page.
 - ❑ To deploy your changes, see [“Deploying Configuration Changes” on page 118](#).
 - ❑ To view a summary list of a profile element's configuration changes to identify how it differs from the global configuration, see [“Viewing Configuration Changes” on page 123](#).
 - ❑ **[CONFIGURATION OVERRIDES & STORE SPECIFIC OVERRIDES ONLY]** - To delete the current profile element configuration changes, see [“Delete Profile Configuration Overrides” on page 125](#).
 - ❑ **[STORE SPECIFIC OVERRIDES ONLY]** - To copy store configurations from another store, see [“Copy Store Configurations” on page 128](#).

Tender Configurations

1. Basic Information

Define the basic information for the tender, then click **Next**.

- ☐ **Tender ID** - Enter the tender identifier. This value can only be edited in Add mode.
- ☐ **Description** - Enter a text description of the tender.
- ☐ **Locale** - If needed, select a translation locale and enter the description for the locale.
- ☐ **Currency** - Set up the Currency ID:



This option allows you to set the Currency ID on any tender to a keyword "" that represents the local currency. For any tenders that have this keyword "*" set as the currency ID, Xstore will retrieve the local currency ID from `SystemConfig.xml`.*

This makes it easier to set up tender types to always use the local currency of the store rather than needing to explicitly define each tender with a specific currency ID.

For example, rather than setting up Visa/USD, Visa/CAD, Visa/AUD, etc., it is possible to simply use the "" keyword for the Visa tender to instruct Xstore to retrieve the store's local currency ID automatically for Visa.*

- To set the Currency ID to **Xstore's local currency**, disable the "Does this tender use a specific Currency?" check box. This automatically sets the currency ID to "*". In Xstore, this "*" value is recognized as a directive to use the local currency for the tender
- To set the Currency ID to **a specific value**, enable the "Does this tender use a specific Currency?" check box. When prompted, select a Currency ID from the list of available currencies. Xstore will use the selected Currency ID for the tender.
- ☐ **Include in Flash Sales Report?** - If selected, the tender will be included on the Flash Sales Report. When prompted enter the order in which it should appear on the report in the *Flash Sales Report Display Order* field.
- ☐ **Display Order** - Determines the order in which tenders display on the count page during closing.
- ☐ **Enabled** check box - When selected, the tender is available for use.

2. Denominations Information [DENOMINATION tender types only]

Configure denominations for the tender.

- ☐ To **add** a new denomination, enter the following denomination detail, then click the Add Denomination link:
 - Denomination ID - The denomination identifier.

Denomination ID		
Description		
Value		Add Denomination

ID	Description	Value
TEN	Ten	10.000000 Delete
TWENTY	Twenty	20.000000 Delete
FIFTY	Fifty	50.000000 Delete
HUNDRED	One Hundred	100.000000 Delete

- Description - The denomination description
- Value - The denomination value

Note: A Delete option is available after adding a denomination.

3. Availability Information

Select the transaction types this tender is available for. To quickly choose all transaction types at once, click the Select All link.

Tender Options Maintenance

1. Select **Tender Options Maintenance** from the Tender Configuration page (Figure 5-45).
2. Select a Tender Type from the list, then click **Next**.
3. At the Tender Options Maintenance page, select a tender from the list.

Tender ID	Description	Currency	Status
VISA	Visa Credit Card	*(Use Local Currency)	
PRIVATE_LABEL	Private Label Credit Card	*(Use Local Currency)	
MASTERCARD	MasterCard Credit Card	*(Use Local Currency)	
DINERS_CLUB	Diners Club Credit Card	*(Use Local Currency)	
ICB Credit Card		*(Use Local Currency)	

Figure 5-48: Tender Options Maintenance Page

4. At the Tender Options Detail window, click **Edit**.

DISCOVER - Discover Credit Card [Edit]

Usage

- Effective Date N/A
- Expiration Date N/A
- Default to amount due Yes
- Allow overrides on failed over tendering No
- Cash Change Limit \$999,999.00
- Change Tender ID Local Currency
- Allow Split Tender Yes
- Serial Number Required Yes
- Cash Drawer Open No
- Cash Drawer Open on Post Void No
- Endorsement Required No
- Minimum Denomination Amount \$0.01
- Voidable Yes
- Allow Change Back When Used as Foreign Currency N/A

Customer

- Customer ID Type Required N/A
- Customer Required No
- Customer Signature Required Yes
- Minimum Days For Return 0
- Maximum Days For Return 30

Figure 5-49: Tender Options Detail Window

5. Complete the fields as required, then click **Next**. See ["Tender Options Configuration" on page 109](#) for a list of configuration options.
6. Review your selections and skip to [step 4 on page 106](#) to complete tender options setup.

Tender Options Configuration

1. Usage Information

Define how the tender will be used.

- ☐ **Effective Date** - [OPTIONAL] Enter the effective date. Allows entry using the calendar component.
- ☐ **Expiration Date** - [OPTIONAL] Enter the expiration date. Allows entry using the calendar component.
- ☐ **Does this tender default the tender amount to the amount due?** - If selected, the amount due from the customer is shown as a default value in the focus bar at tendering.
- ☐ **Is a failed over tendering attempt allowed to be overridden for this tender?** - If selected, the over tender limit can be overridden.
- ☐ **Is there a limit to the amount of cash change?** - If selected, enter the maximum amount of cash that can be given as change when this tender is used as payment.
 - ☐ **Is there a required tender to give as change when the cash change limit has been exceeded?** - If selected, choose the tender to be used as change after the cash change limit has been reached.
- ☐ **Are split tenders allowed?** - When selected (default), this tender can be used if there are tenders in the current transaction. If this option is not selected, the tender amount entered cannot be less than what is due on the transaction.
- ☐ **Is a serial number required?** - If selected, the serial number of the tender type must be captured as part of the tender process.
- ☐ **Open cash drawer?** - If selected, the cash drawer opens when the tender type is offered by the customer.
- ☐ **Open cash drawer on Post Void?** - If selected, open the cash drawer each time a post void is performed using this tender.
- ☐ **Is endorsement/franking required?** - If selected, an endorsement or franking is required before this tender can be accepted.
- ☐ **Is this tender able to be voided?** - If selected, this tender can be voided.
- ☐ **Is there a minimum denomination amount used for currency rounding for this tender?** - If selected, enter the minimum denomination value when prompted.
- ☐ **When used as foreign currency, is change allowed back on this tender?** - If selected, giving change in foreign cash currency is allowed. If not selected, any change due is given in the local currency.

2. Customer Information

Define how the customer will use the tender.

- ☐ **Is customer identification required?** - If selected, choose the type of customer identification required.
- ☐ **Is customer association required?** - If selected, a customer must be associated with this tender.

- ☐ **Is customer signature required?** - If selected, a customer signature is required before this tender can be accepted.
- ☐ **Are there a minimum and maximum days for a return with this tender?** - If selected, enter the minimum number of days and maximum number of days allowed for return of an item to use this tender for refund.

3. Authorization Information [AUTH tender types only]

Configure authorization rules for the tender.

- ☐ **Is a swipe on a magnetic stripe reader (MSR) required?** - If selected, the tender must be inserted into the magnetic card reader.
- ☐ **Is authorization required?** - If selected, authorization is required before the tender can be accepted.

Enter/select authorization information when prompted:

- ☐ **Authorization Method** - Select the authorization method from the list.
- ☐ **Is postal code entry required?** - If selected, a postal code must be associated with this tender.
- ☐ **Is expiration date entry required?** - If selected, this type of tender requires an authorization expiration date and it must be recorded at the time of settlement. (Used to enable expiration date prompting for a major credit tender.)
- ☐ **Is CID entry required when swiped?** - If selected, the card ID is required when this card is swiped.
- ☐ **Is CID entry required when keyed?** - If selected, the card ID is required when this card is keyed into the system manually.
- ☐ **Is PIN entry required?** - If selected, the customer must enter a personal identification number (PIN) to validate the method of payment.

4. Count Information [COUNT tender types only]

Specify the options used to configure counting and reporting rules for the tender.

- ☐ **Is this tender counted independently from tender type?** - If selected, the tender will be counted separately. When prompted, choose the Till Count Method to be used from the list. If not selected, the tender will be counted as part of its tender category grouping. This option must be selected (true) for cash currency tenders.
- ☐ **Is a recount required if tender does not balance?** - If selected, enter the Close Count Discrepancy Threshold value when prompted.
- ☐ **Reporting Group** - Select the reporting group for the tender:
 - ☐ Tender Summary group
 - ☐ Foreign Currency group
- ☐ **Is a suggested deposit amount required?** - If selected, enter the Suggested Deposit Threshold value when prompted.
- ☐ **Are the counts and amounts pre-populated?** - If selected, the system counts the tender automatically to populate the system tender.

Tender Security Settings



The combination of Tender ID, Security Group, Usage Code, and Entry Method must be unique.

1. Select **Tender Security Settings** from the Tender Configuration page (Figure 5-45).
2. At the Tender Security Settings page, you can add a new security setting or edit an existing one.

Tender	Security Group	Usage Code	Entry Method Code
Account Credit	Cashier	Sale	Default
Account Credit	Manager	Sale	Default
Account Credit	Cashier	Default	Default
Account Credit	Manager	Default	Default
American Express Credit Card	Cashier	Signature Required for Return	Default
American Express Credit Card	Manager	Signature Required	Default

Figure 5-50: Tender Security Settings Page



Use the Tender ID and Security Group filters to locate a tender/security group in the list.

- ❑ **If adding a new tender security setting:**
 - 1) Click **Add New**.
 - 2) At the Security Setting Detail window, complete the fields as required, then click **Save**. See ["Tender Security Settings Configuration Options" on page 112](#) for a list of configuration options.
 - ❑ **If editing an existing tender security setting:**
 - 1) Select the tender security setting in the list.
 - 2) At the Security Setting Detail window, complete the fields as required, then click **Save**. See ["Tender Security Settings Configuration Options" on page 112](#) for a list of tender configuration options.
3. After completing tender security setting setup, Xadmin returns to the Tender Security Settings list page.
 - ❑ To deploy your changes, see ["Deploying Configuration Changes" on page 118](#).
 - ❑ To view a summary list of a profile element's configuration changes to identify how it differs from the global configuration, see ["Viewing Configuration Changes" on page 123](#).

- ☐ **[CONFIGURATION OVERRIDES & STORE SPECIFIC OVERRIDES ONLY]** - To delete the current profile element configuration changes, see ["Delete Profile Configuration Overrides" on page 125](#).
- ☐ **[STORE SPECIFIC OVERRIDES ONLY]** - To copy store configurations from another store, see ["Copy Store Configurations" on page 128](#).

Tender Security Settings Configuration Options

The available configuration options depend upon the selected Tender and Usage Code.

General Information

(Note: The following fields cannot be changed in edit mode.)

- ☐ **Tender ID** - Select the tender identifier from the list.
- ☐ **Security Group** - Select the security group from the list.
- ☐ **Usage Code** - Select the usage code from the list.
- ☐ **Entry Method Code** - Select the entry method code from the list.

Limits

- ☐ **Maximum amount allowed to over tender** - Enter the maximum amount allowed to over tender.
- ☐ **Minimum amount Accepted** - Enter the minimum amount that can be accepted.
- ☐ **Maximum amount Accepted** - Enter the maximum amount that can be accepted.

Online Authorization Rules [only shown for tenders that require authorization]

- ☐ **Authorization needed when amount is above** - Enter the maximum value that can be accepted without authorization.
- ☐ **Maximum amount allowed to authorize** - Enter the maximum value of an individual tender type that can be authorized either in-house or by a third party. This especially applies to checks where the check authorization company sets a ceiling by retailer.

Offline Authorization Rules [only shown for tenders that require authorization]

- ☐ **Authorization needed when amount is above** - Enter the maximum value that can be accepted without authorization when in offline mode.
- ☐ **Maximum amount allowed to authorize** - Enter the maximum value of an individual tender that the system accepts without authorization when in offline mode.

Refund

- ☐ **Maximum refund allowed with a receipt** - Enter the maximum refund allowed with a receipt.
- ☐ **Maximum refund allowed without a receipt** - Enter the maximum refund allowed without a receipt.

Tender Configuration: System Configuration Options



The system configuration options for tenders in this feature are simply a subset of the system configuration options available from Xstore System Config Options. See ["Configuring Xstore System Config Options" on page 90](#) for more information.

The following configurations apply specifically to tenders. The categories have been set up as follows:

- [Charity](#) below
- [Closing Options](#) below
- [Discount Options](#) below
- [House Accounts](#)
- ["Opening Options" on page 114](#)
- ["PayPal" on page 114](#)
- ["Returns" on page 115](#)
- ["Store Specific" on page 115](#)
- ["Tender" on page 115](#)
- ["Tender Options" on page 115](#)
- ["Till Accountability" on page 116](#)

Charity

- **Enable Prompting User When Voiding Charity Line Item?** - Determines whether the system displays the notification message when a charity item is voided if tendering is canceled.

Closing Options

- **Perform Till Count During Close?** - Determines whether the system prompts the associates to perform a till closing count at register close.

Discount Options

- **How Should Price Be Rounded After Discount Applied?** - Select the local currency amount rounding method used for determining the price after a discount is applied. Valid Values:
 - ☐ **Half Up** - Round to the nearest neighbor unless equidistant, then round up.
 - ☐ **Half Down** - Round to the nearest neighbor unless equidistant, then round down.
 - ☐ **Half Even** - Round to the nearest neighbor unless equidistant, then round to even neighbor. Example: 2.5 rounds to 2 while 3.5 rounds to 4.
 - ☐ **Ceiling** - Round toward positive infinity. Note: This is the opposite of FLOOR and never decreases the calculated value.
 - ☐ **Down** - Round to the next digit; closer to zero.
 - ☐ **Floor** - Round down toward negative infinity. Note: This is the opposite of CEILING and never increases the calculated value.
 - ☐ **Up** - Round to the next digit; away from zero.
 - ☐ **Unnecessary** - Rounding is not necessary.

House Accounts

- **AR Manual Auth Phone Number.** - Enter the phone number for the associates to call for authorization when the accounts receivable tender amount exceeds the account credit limit and the exceeded amount is below the threshold amount.
- **AR Over Tender Amount Allowed Over Credit Limit.** - Enter the threshold amount the system allows when the accounts receivable tender amount exceeds the account credit limit.
- **Manager Override When Tender Amount Exceeds House Account Balance?** - Determines whether the system prompts for manager override if the tender amount exceeds the remaining balance of the house account.
 - ☐ If set to **Yes**, and a manager-level user is logged in, the system displays the credit limit and prompts the user to proceed.
 - ☐ If set to **Yes**, and a user lower than the manager privilege is logged in, and the user chooses to proceed with exceeding the credit limit, the manager security login displays for approval.
 - ☐ If set to **No**, the system does not prompt for manager override.
- **Prompt For User Information On AR Transaction?** - Determines whether the system prompts for the AR account user information when performing tender/refund/payment on an accounts receivable account.
- **Require Customer To Be AR Account Owner To Use AR Functions?** - Determines whether the system requires the associated customer of the retail transaction to be the AR account owner in order to access the accounts receivable retail functionality (tender, payment).

Opening Options

- **Skip Till Count Since Workstation Doesn't Have Cash Drawer?** - This applies to Register Accountability Only. Used for registers that do not have a cash drawer or do not handle cash. Select **Yes** to prevent the system from prompting for begin or end count during the register open or close. The system automatically moves all tender amounts from the register/handheld to the store bank.

PayPal

- **Enable PayPal Mobile Payments Polling Service?** - Used to enable/disable PayPal Mobile Payments polling service. When enabled, Xstore will automatically update the list of currently checked-in customers based on a configurable interval.
- **PayPal Point Of Sale Service API Version.** - Enter the current version of the PayPal POS service API.
- **PayPal Polling Interval (in Seconds).** - Enter the interval for the PayPal Mobile Payments polling service in seconds.
- **PayPal Preferred Image Size.** - Select the size of the photo image that Xstore will use on the confirmation page for the PayPal Mobile Payments.
- **PayPal Tab Height.** - Enter the number of rows for the PayPal tab.
- **PayPal Tab Width.** - Enter the number of columns for the PayPal tab.

Returns

- **Prompt For Tender On Credit Card Returns?** - Determines whether the system prompts for refund tender amount to be credited back to the original sale credit card.
 - ☐ If **Yes**, the system prompts for the amount to credit back to the original card.
 - ☐ If **No**, the entire refund amount will be credited back to the selected original credit card.

Store Specific

- **Default Id Type For Tenders Requiring Customer Identification.** - Select the default identification type used for certain tenders that require customer identification information. Valid Values: Drivers License, Social Security, Military Id, Credit Card, Employee Id, Customer Card, Any identification type.

Tender

- **Allow Multiple Incoming Tenders In One Transaction?** - Determines whether the system allows multiple incoming (exchange from) tenders in a tender exchange transaction.
- **Allow Multiple Outgoing Tenders In One Transaction?** - Determines whether the system allows multiple outgoing (exchange to) tenders in a tender exchange transaction.
- **Default Tender Id To Use For Change If Not Specifically Configured.** - Select the change tender id the system will use by default if the system cannot find the valid change tender based on the sale tenders. Valid Values: Issue Store Credit, Issue Gift Card.
- **Prompt User To Imprint Credit Card For Manual Cards?** - Determines whether the system prompts the associate to imprint the credit card when there is a manually entered credit card tender in the completed sale transaction.
- **Quick Cash Button Increment Display.** - The Quick Cash Buttons will display in increments based on this entry for the minimum denomination factor.
- **Use Quick Cash Buttons?** - Determines whether the Quick Cash Button functionality is enabled.

Tender Options

- **Authorization Method Code For BinSmart Lookups.** - Enter the authorization method code used to perform the lookup. Valid only for Merchant Warehouse.
- **Cash Payment Threshold To Invoke Additional Info Collection For IRS.** - If the amount of cash paid by a customer exceeds this threshold amount, the system will display the IRS form to gather additional customer information.
- **Display Cash Total?** - Only applicable for currency rounding; indicates whether the rounded cash total is displayed below the transaction total in the viewport.
- **Enable Merchant Warehouse's BinSmart Lookups?** - Determines whether Merchant Warehouse's BinSmart lookups are used for Credit/Debit authorizations.
- **Inform Users With A Message That No Signature Is Required?** - This option controls turning off/on the information message displayed when processing a transaction below a configured value.
- **Local Currency Id.** - Select the currency for the current locale.

- **Method To Mask Vouchers/Gift Cards.** - Enter the voucher number masking method.
 - ☐ **CREDITCARD** - Mask all but the last 4-digits of the Account Number.
 - ☐ **MASK_LAST_4** - Mask (****) the last 4-digits of the Account Number.
- **Minimum Check Number.** - Enter the lowest check number the system will accept when the customer pays with a check.
- **Preferred Payment Recommendation When Errors Occur.** - Select the preferred payment recommendation when an error occurs or a failed response is returned. Valid Values: Credit, Debit.
- **Prompt For Birth Date On Check Tender?** - Determines whether the system prompts for the customer's birthdate when the customer pays with a check.
- **Require Pin Pad Entry For Debit Tender?** - Determines whether a pin pad device is required for tendering with a debit card.
- **Rounding Method To Use For Local Currency.** - Select the local currency amount rounding method.
 - ☐ **Half Up** - Round to the nearest neighbor unless equidistant, then round up.
 - ☐ **Half Down** - Round to the nearest neighbor unless equidistant, then round down.
 - ☐ **Half Even** - Round to the nearest neighbor unless equidistant, then round to even neighbor. Example: 2.5 rounds to 2 while 3.5 rounds to 4.
 - ☐ **Ceiling** - Round toward positive infinity. Note: This is the opposite of FLOOR and never decreases the calculated value.
 - ☐ **Down** - Round to the next digit; closer to zero.
 - ☐ **Floor** - Round down toward negative infinity. Note: This is the opposite of CEILING and never increases the calculated value.
 - ☐ **Up** - Round to the next digit; away from zero.
 - ☐ **Unnecessary** - Rounding is not necessary.

Till Accountability

- **Method To Count Store Bank Deposit.** - The store bank deposit till count method. This configuration is only valid if the store requires an end count of the store bank at store close. Valid Values:
 - ☐ **Storebank Complete** - Brings up the entire store bank end count screen for all tenders.
 - ☐ **Remaining Cash** - Prompt the user to enter the total cash NOT to be deposited to the bank institution.
 - ☐ **Complete Deposit** - Deposit all tenders from the store bank to the bank institution.
- **Skip Initial Count Summary?** - When initiating a count, determines whether the system displays the tender summary list or the first tender to be counted.
- **Validate Cash Refund Amounts Against The Current Till Count?** - Determines whether the system validates refund cash amounts to ensure the current till cash amount is greater than the refund cash amount.

Configuring Customer Displays

...continued from [step 4 on page 54](#)



Pole Display is the only Customer Display type supported at this time.

1. At the Customer Display page, click **Pole Display**.

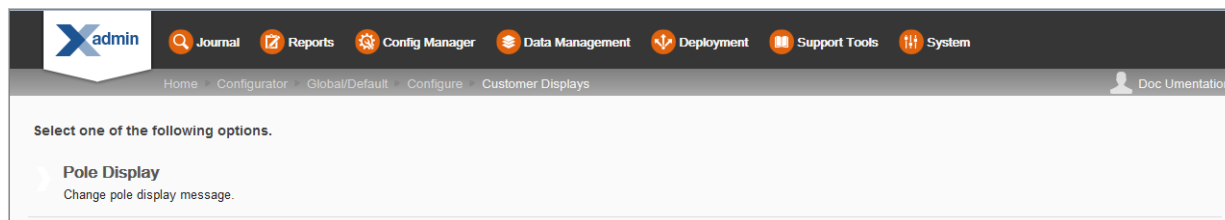


Figure 5-51: Customer Display Page

2. The current pole display message is shown in the Pole Message field. Edit the pole display message as needed:

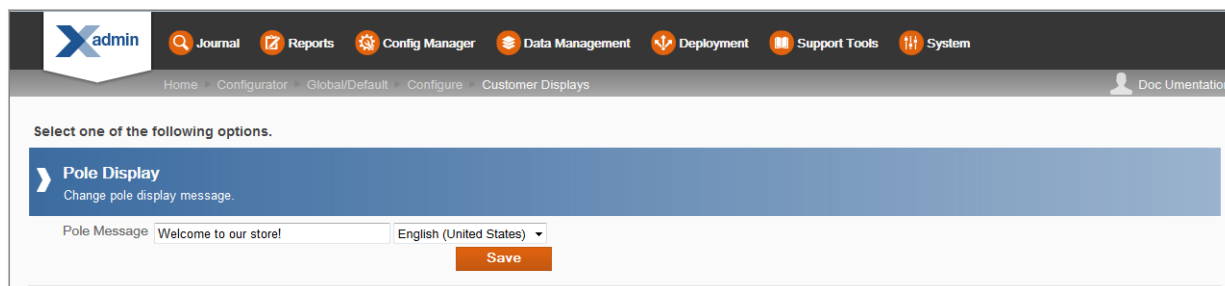


Figure 5-52: Edit Pole Display Page

- ☐ **Pole Message** - To edit the message text, type the new message. The maximum length is 40 characters.
- ☐ **Locale** - If needed, select a translation locale and enter the message text for the locale.



A pole message is required for the default locale. A pole message is not required for other locales you may have set up.

3. Click **Save**.

Deploying Configuration Changes



See [Appendix A: "About Deployments" on page 260](#) for more information about deployments.

1. To begin the deployment process, from the Xadmin menu, select **Config Manager** --> *Configurator*, or click the *Configurator* link in the **Configuration Manager** panel.
2. Select the configuration scope for the deployment:

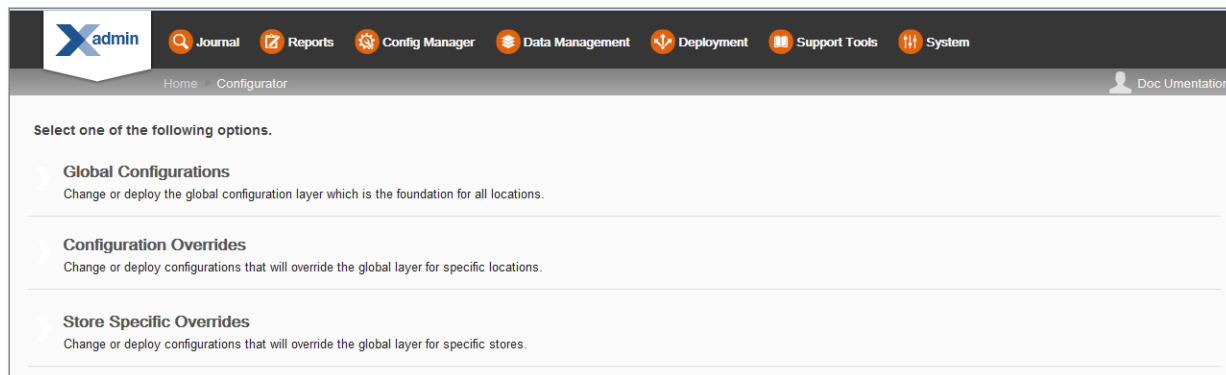


Figure 5-53: Configuration Scope Options Page

- Select **Global Configurations** to deploy the global configuration layer which affects all locations. Continue with step 3 below.
<OR>
 - Select **Configuration Overrides** to deploy configurations that will override the global layer for specific locations.
 - a. Select a Profile Group from the list.
 - b. Select an Element from the list.
 - c. Click **Next**.
 - d. Continue with step 3 below.
 <OR>
 - Select **Store Specific Overrides** to change configurations that will override the global layer for a specific store based on the user's scope.
 - a. Type the store number or begin typing a store number or name in the Store # field.
 - b. Select the store from the store list.
 - c. Click **Next**.
 - d. Continue with step 3 below.
3. At the Configuration Action page, select the **Deploy** option.



If you try to schedule a deployment for a profile element that has no changes, you will see the following message:

There are no changes to deploy for this profile element.

If you see this message, return to the Configure screen and make your changes before scheduling a deployment.

4. At the Schedule Deployment page, select a deployment type:

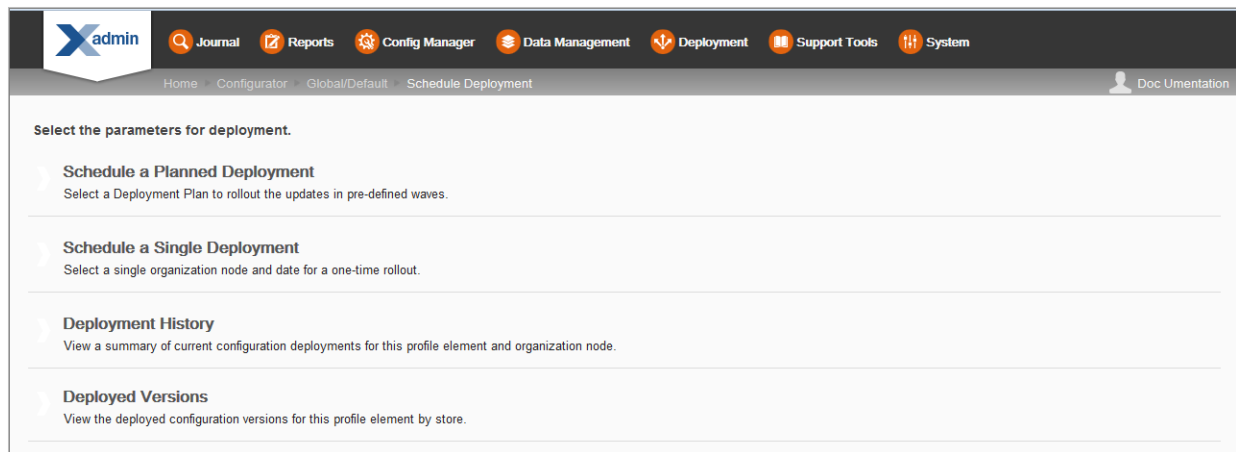


Figure 5-54: Schedule Deployment Page - Global Scope Example

- ☐ Select **Schedule a Planned Deployment** to roll out the updates in pre-defined waves. Continue with ["Scheduling a Planned Deployment" on page 120](#).

Note: The Planned Deployment option is not available for Store Specific Overrides.

<OR>

- ☐ Select **Schedule a Single Deployment** to set up a one-time rollout. Continue with ["Scheduling a Single Deployment" on page 121](#).



To view deployment history for this profile element and organization node, select Deployment History. See ["Deployment History" on page 129](#) for more information about this option.

To view the deployed configuration versions for this profile element by store, select Deployed Versions. See ["Deployed Versions" on page 131](#).

Scheduling a Planned Deployment



You must create deployment plans before using this option. Refer to ["Creating a Deployment Plan" on page 206](#) for more information about setting up deployment plans.

- Complete the following fields to roll out the updates in pre-defined waves:
 - ☐ **Deployment Name** - Accept the default name or enter a name for this deployment.
 - ☐ **Deployment Plan** - Select a deployment plan from the list.
 - ☐ **Target Date** - Select the date the changes will be sent to the store.
- Click **Next**.
- Review the deployment schedule.

Wave #	Name	Date	Launch Type	Organization Nodes	# of Stores
1	Wave 1	Sat, Apr 26, 2014	Approval Required	STORE:0	1
2	Wave 2	Tue, Apr 29, 2014	Approval Required	REGION:1	11
3	Wave 3	Fri, May 2, 2014	Approval Required	REGION:2	5
4	Wave 4	Sat, May 10, 2014	Approval Required	*,*	15

Figure 5-55: Review Deployment Schedule Page

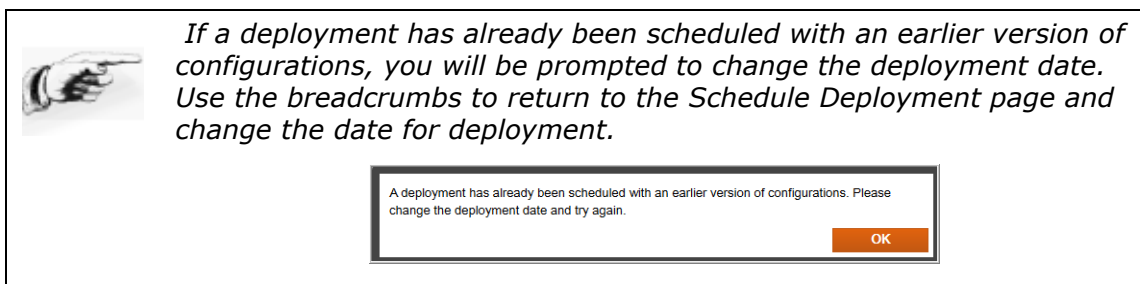
- Verify the Email Notification List is correct. If needed, click the [View List](#) link to see more detail about the email recipients.
- Review the deployment information:



The "v.x" value in the Deployment Name is the configuration version for this deployment.

Deployment Name	Various Updates Global Config v.23 2014-04-25 16:45:43
Deployment Plan	MK Rollout
Total # of Stores	32

- ❑ If the deployment information is correct, click **Deploy**.



- ❑ If the deployment information is not correct, use the breadcrumbs to navigate back to the previous page where you can make changes, and go to [step 1 on page 118](#).
6. When prompted, click **Yes** to confirm you want to schedule deployment.
 7. Click **OK** to close the *Deployment was scheduled successfully* window. The configuration version is now “locked” for this set of configurations.

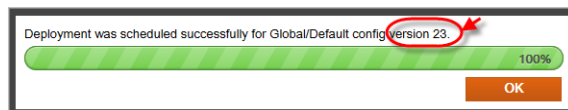


Figure 5-56: Deployment Scheduled Successfully Window - For Version 23 Example

Scheduling a Single Deployment

1. Complete the following fields for a one-time rollout:
 - ❑ **Deployment Name** - Accept the default name or enter a name for this deployment.
 - ❑ **Organization Node** - Select the organization target for the configuration changes.
 - ❑ **Target Date** - Select the date the changes will be sent to the store.
 - ❑ **Download Priority** - Select the download priority:
 - **Immediate** - Download the configuration changes now.
 - **Store Close** - Download the configuration changes at end-of-day.
2. Click **Next**.

3. Review the deployment schedule.

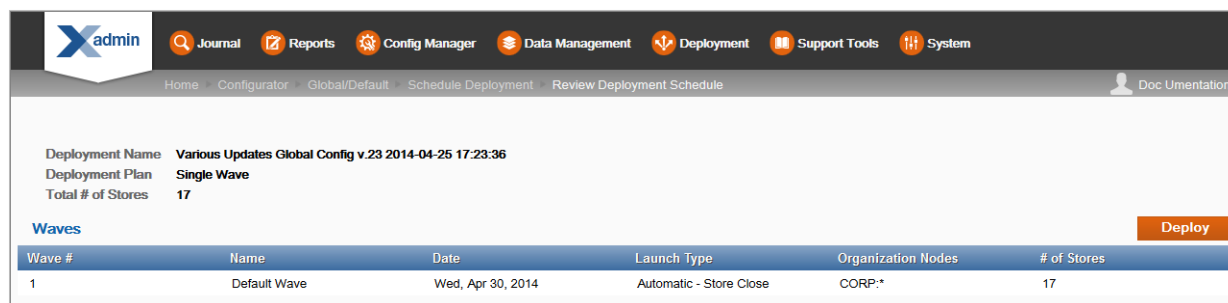


Figure 5-57: Review Deployment Schedule Page

4. Review the deployment information:



The "v.x" value in the Deployment Name is the configuration version for this deployment.

☐ If the deployment information is correct, click **Deploy**.



If a deployment has already been scheduled with an earlier version of configurations, you will be prompted to change the deployment date. Use the breadcrumbs to return to the Schedule Deployment page and change the date for deployment.

A deployment has already been scheduled with an earlier version of configurations. Please change the deployment date and try again.

OK

- ☐ If the deployment information is not correct, use the breadcrumbs to navigate back to the previous page where you can make changes, and go to [step 1 on page 118](#).
5. When prompted, click **Yes** to confirm you want to schedule the deployment.
6. Click **OK** to close the *Deployment was scheduled successfully* window. The configuration version is now "locked" for this set of configurations.

Viewing Configuration Changes

About Configuration Changes

A Configuration Change is recorded when a configurable object has been altered. Multiple alterations of a configurable object does not equate to multiple changes being recorded.

For example, if you change the same reason code three separate times, it counts as one change for the time period that it differs from the global configuration. If you change three different reason codes, that would count as three changes.

This feature provides a summary list of configuration changes, who made them, and when they were made. This list is only a "snapshot" of time in which it is called up. When viewing configuration changes, you can delete configuration changes that have not been deployed. See ["Delete Configuration Changes" on page 125](#) for more information.

1. From the Xadmin menu, select **Config Manager** --> *Configurator*, or click the [Configurator](#) link in the **Configuration Manager** panel.
2. Select the configuration scope for the deployment. The process varies with the scope selected on the Configuration Scope Options page ([Figure 5-39 on page 95](#)):

If	Then
Global Configurations	continue with step 3.
Configuration Overrides	a. Select a Profile Group from the list. b. Select an Element from the list. c. Click Next. d. Continue with step 3.
Store Specific Overrides	a. Type the store number or begin typing a store number or name in the Store # field. b. Select the store from the store list. c. Click Next. d. Continue with step 3.

3. At the Configuration Scope Actions page, select **View Configuration Changes**.

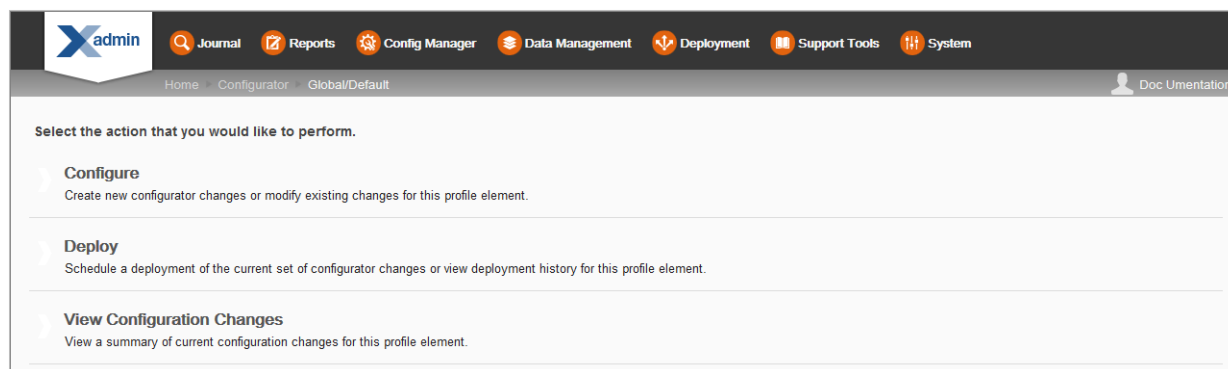


Figure 5-58: Configuration Scope Actions Page - Global Example

4. View the configuration changes by Category or by Version:

The screenshot shows the Xadmin interface with the 'Configuration Changes' page. The breadcrumb trail is 'Home > Configurator > Global/Default > View Configuration Changes'. The page title is 'View Configuration Changes'. There is a 'Group by:' dropdown menu set to 'Category'. Below the dropdown is a table with three columns: 'Category', '# of Changes', and 'Date of Last Change'.

Category	# of Changes	Date of Last Change
Code Value	15	Apr 25, 2014 3:30:41 PM
Discount	1	Apr 25, 2014 1:51:29 PM
Menu	1	Apr 25, 2014 1:52:31 PM
Pole Message	3	Apr 25, 2014 2:10:09 PM
Reason Code	4	Apr 25, 2014 3:21:06 PM

Figure 5-59: Configuration Changes Page: by Category or Version



Click the sort component  to sort the columns as needed.

■ **Group By Category:**

- ☐ **Category** - The configuration category. Select the Category row to view more information: Version Number, Change Description, Date of Last Change, and User.
- ☐ **# of Changes** - The number of changes per category.
- ☐ **Date of Last Change** - The date the last configuration change was made for this category.

■ **Group By Version:**

- ☐ **Version #** - The configuration version number. Select the Version # row to view the configuration changes made to that version: Category, Change Description, Date of Last Change, and User.
- ☐ **# of Changes** - The number of changes in this version.
- ☐ **Date Created** - The date the version was created.

Delete Configuration Changes

When viewing configuration changes, you can remove a configuration change (or several changes if applicable) from a configuration update as long as that configuration update has not been deployed.

1. From the Xadmin menu, select **Config Manager** --> *Configurator*, or click the Configurator link in the **Configuration Manager** panel.
2. Select the configuration scope for the deployment.
3. At the Configuration Scope Actions page, select **View Configuration Changes**.
4. View the configuration changes by Category or by Version.
5. Click the Delete icon  associated with the configuration change you want to remove.

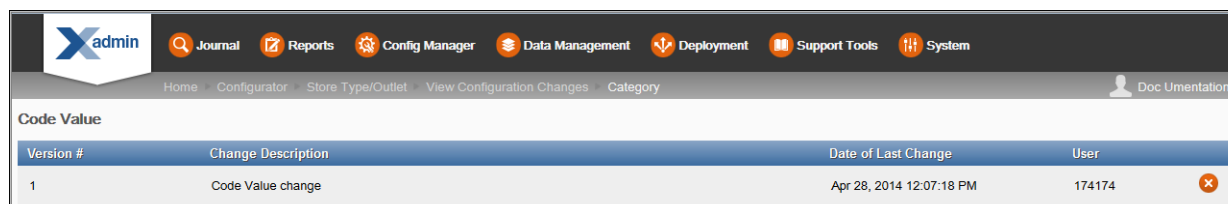


Figure 5-60: Configuration Changes Page - Delete Option

6. When prompted to confirm you want to delete this change, click **Yes** to remove the configuration change from the configuration update.

Delete Profile Configuration Overrides

Use this option to delete group/element level configuration overrides for a specified group/element configurations.



To use this feature, "Enable the Option to Delete Configurations?" must be set to true in Xadmin Settings.



When you delete store level or profile group/element level configurations, a deployment is scheduled for those locations to be sent immediately.

If there are any pending configuration deployments for the same location at a future date, the location will receive this delete deployment immediately, and then at a later time the scheduled configurations will be deployed. If this scenario occurs, Xstore and Xadmin will have different configurations for that location.

1. At the Configuration Scope Options page, select **Configuration Overrides**.

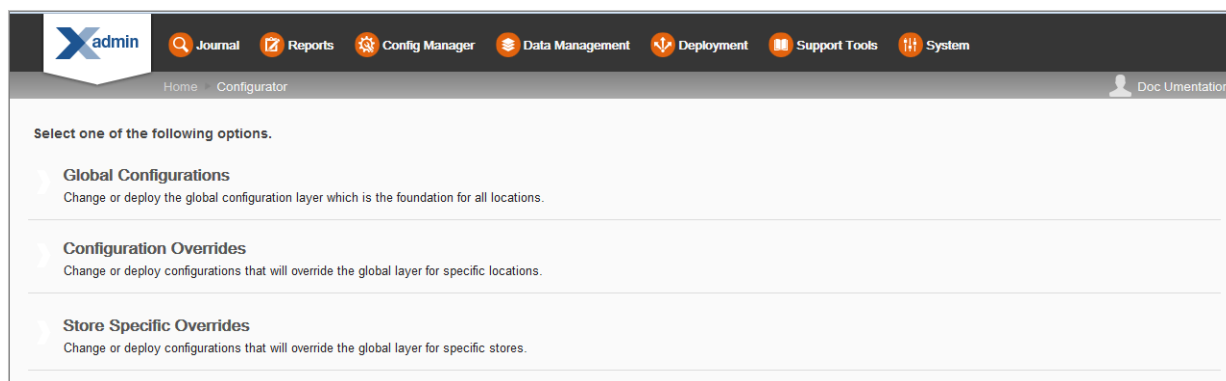


Figure 5-61: Configuration Scope Options Page

2. Select the profile group and element, then click **Next**.
3. At the Configuration Action page, click **Delete Profile Configuration Changes**.

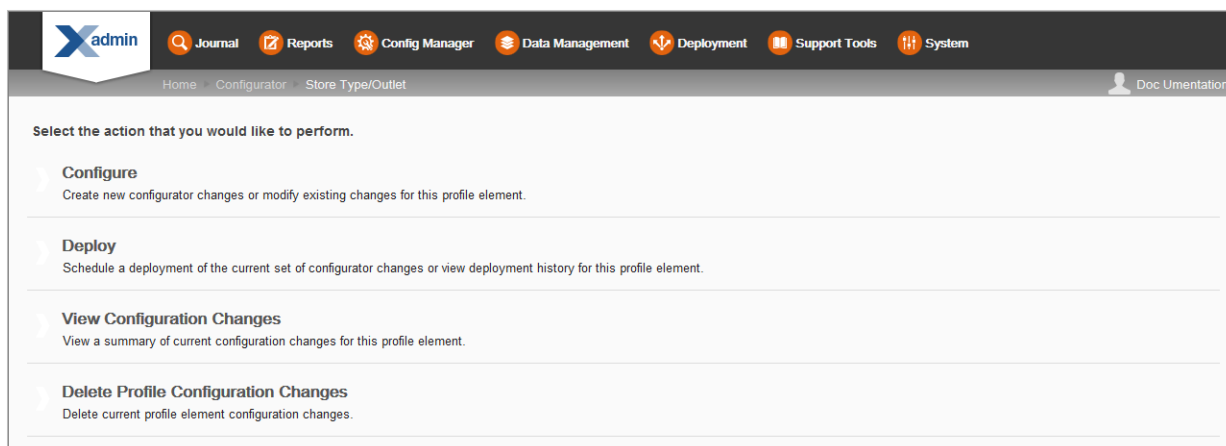


Figure 5-62: Configuration Action Page - Configuration Overrides Scope Example

4. When prompted, click **Yes** to confirm the deletion.

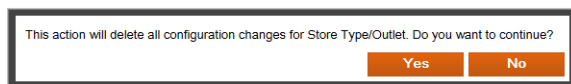


Figure 5-63: Delete Profile Configuration Changes Confirmation Prompt

5. After the deployment has been scheduled successfully, click **OK** to close the Schedule Delete Configurations Deployment prompt.

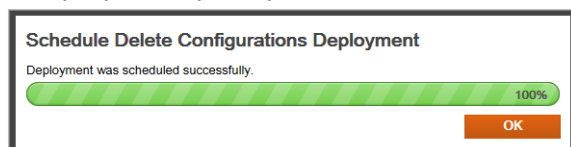


Figure 5-64: Schedule Delete Configurations Deployment Prompt

6. When prompted, click **OK** to acknowledge all the changes have been removed.

Delete Store Specific Overrides

Use this option to delete store-specific configuration overrides. Xadmin deletes configurations that have not been deployed and marks the deployed profile configuration changes as inactive in the Xadmin database. This action retains the history of completed deployments for auditing purposes.



To use this feature, "Enable the Option to Delete Configurations?" must be set to true in Xadmin Settings.



When you delete store level or profile group/element level configurations, a deployment is scheduled for those locations to be sent immediately.

If a scheduled deployment for configuration changes is found, you will not be able to delete a profile configuration change.

1. At the Configuration Scope Options page ([Figure 5-61 on page 126](#)), select **Store Specific Overrides**.
2. Select the store number, then click **Next**.
3. At the Configuration Action page, click **Delete Profile Configuration Changes**.

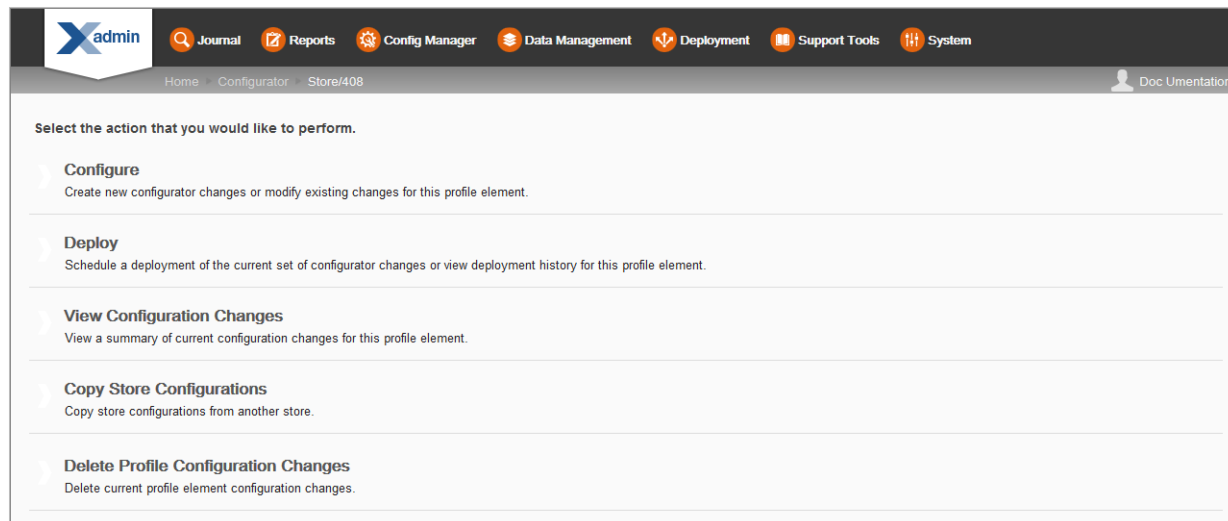


Figure 5-65: Configuration Action Page - Store Specific Overrides Scope Example

4. When prompted, click **Yes** to confirm the deletion.
5. After the deployment has been scheduled successfully, click **OK** to close the Schedule Delete Configurations Deployment prompt.
6. When prompted, click **OK** to acknowledge all the changes have been removed.

Copy Store Configurations



To use this feature, "Enable the Option to Create Store-Specific Configurations?" must be set to true in Xadmin Settings.

Use this option to copy configuration information from one store to another. You must have access privileges to both the copy-from store and the copy-to (destination) store in order to use this process. Only stores are valid for the copy-from and destination locations, no other hierarchy or store collections are supported. The target store's previous configurations are retained (but tagged as inactive) for auditing purposes.



This option is not allowed when a scheduled deployment is pending.

1. At the Configuration Scope Options page ([Figure 5-61 on page 126](#)), select **Store Specific Overrides**.
2. Enter the target store number in the Store # field and click **Next**.
3. At the Configuration Action page, click **Copy Store Configurations** ([Figure 5-65 on page 127](#)) and enter the store number you want to copy configurations from in the Copy From Store # field.
4. Click **Next**. This action tags any previously implemented changes as inactive in the database.
5. When prompted, click **Yes** to confirm the copy instructions.

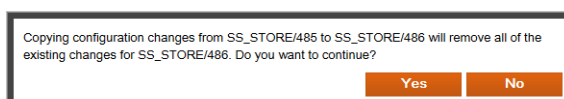


Figure 5-66: Configuration Copy Confirmation Prompt

The configurations are copied to the destination store:

- If the destination store is new, then all the configurations from the copy-from store are now available.
 - If the destination store previously existed, then the system will overwrite the previous data with the new data from the copy-from store.
6. When prompted, click **OK** to view the configuration changes.

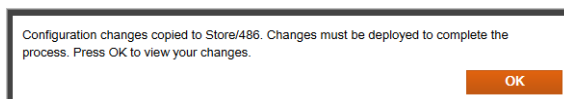


Figure 5-67: Configuration Copy View Changes

7. Review configuration changes by Category or by Version.

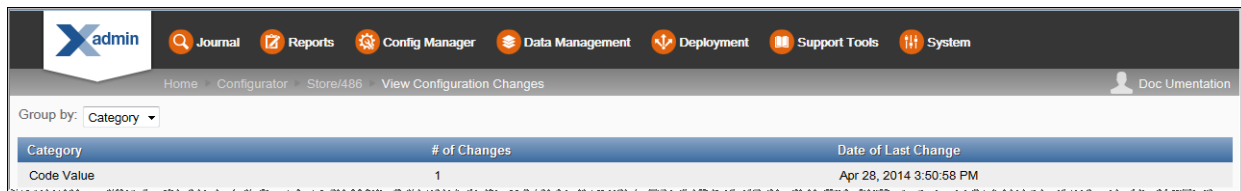


Figure 5-68: View Configuration Changes Page

8. Continue with [“Deploying Configuration Changes” on page 118](#) to deploy the changes.

Deployment History

Use Deployment History to view a summary of current configuration deployments for the profile element and organization node.

1. From the Xadmin menu, select **Config Manager** --> *Configurator*, or click the [Configurator](#) link in the **Configuration Manager** panel.
2. Select the configuration scope for the deployment. The process varies with the scope selected on the Configuration Scope Options page ([Figure 5-39 on page 95](#)):

If	Then
Global Configurations	continue with step 3 on page 130 .
Configuration Overrides	a. Select a Profile Group from the list. b. Select an Element from the list. c. Click Next. d. Continue with step 3 on page 130.
Store Specific Overrides	a. Type the store number or begin typing a store number or name in the Store # field. b. Select the store from the store list. c. Click Next. d. Continue with step 3 on page 130.

3. At the Configuration Scope Actions page, select **Deploy**.

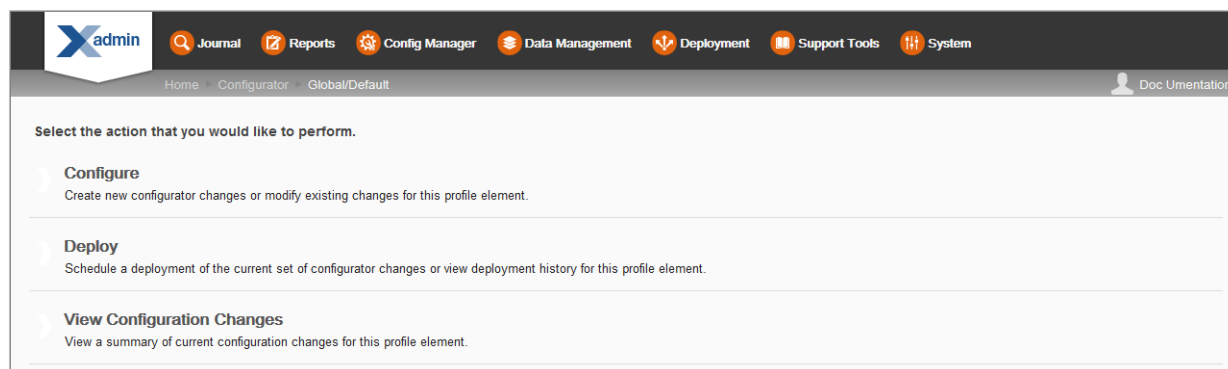


Figure 5-69: Configuration Scope Actions Page - Global Example

4. At the Schedule Deployment Page, select Deployment History:

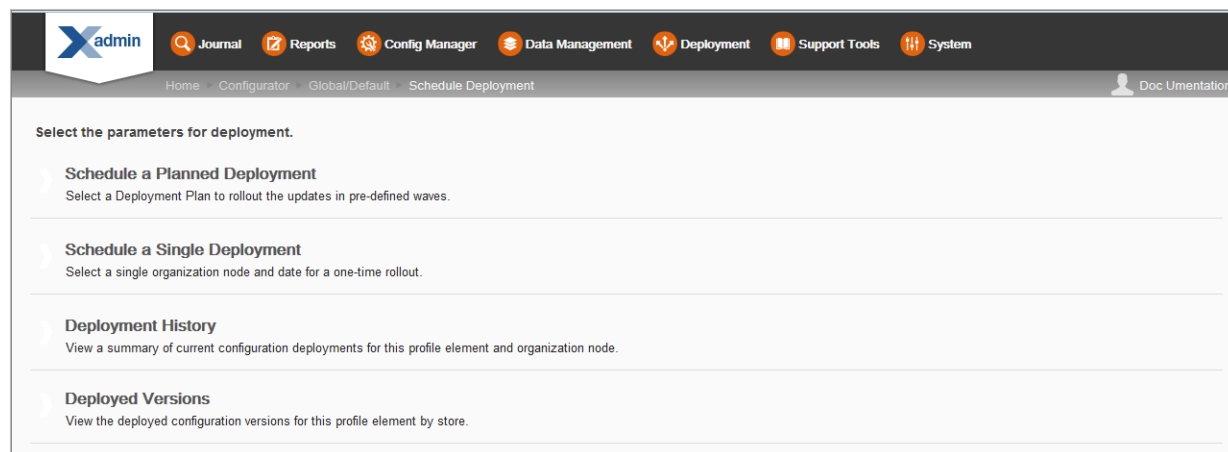


Figure 5-70: Schedule Deployment Page - Global Scope Example

5. The Deployment History search results list shows the other configurator deployments of the same Org Node/Element, along with the status for each.

The screenshot shows the 'Deployment History Search Results List' in Xadmin. The breadcrumb trail is 'Home > Configurator > Global/Default > Schedule Deployment > Search Results'. The table displays the following data:

ID	Name	Type	Plan	Launch Date	Waves Complete	Status
60	Various Updates Global Config v.4 2014-04-18 13:03:34	Configurator	Single Wave	Apr 18, 2014	0 out of 1	In Process
59	Various Updates Global Config v.4 2014-04-18 13:03:34	Configurator	Single Wave	Apr 18, 2014	0 out of 1	In Process
31	Various Updates Global Config v.3 2014-04-14 16:40:08	Configurator	Single Wave	Apr 14, 2014	1 out of 1	Complete [Purged]
30	Various Updates Global Config v.3 2014-04-14 16:40:08	Configurator	Single Wave	Apr 14, 2014	1 out of 1	Complete
24	CodeValue & Rsn Cd & Teh Global Config v.2	Configurator	Single Wave	Apr 14, 2014	0 out of 1	Scheduled

Figure 5-71: Deployment History Search Results List

6. Select a deployment to view additional detail. If needed, a deployment can be edited. See ["Viewing Deployments" on page 213](#) for more information about Deployment History and editing deployments.

Deployed Versions

Use **Deployed Versions** to view the number of stores, and the version numbers deployed to those stores, in a pie chart format. This version information is reported to Xadmin by the primary register at the store.

1. From the Xadmin menu, select **Config Manager** --> *Configurator*, or click the [Configurator](#) link in the **Configuration Manager** panel.
2. Select the configuration scope for the deployment. The process varies with the scope selected on the Configuration Scope Options page ([Figure 5-39 on page 95](#)):

If	Then
Global Configurations	continue with step 3 below.
Configuration Overrides	a. Select a Profile Group from the list. b. Select an Element from the list. c. Click Next. d. Continue with step 3 below.
Store Specific Overrides	a. Type the store number or begin typing a store number or name in the Store # field. b. Select the store from the store list. c. Click Next. d. Continue with step 3 below.

3. At the Configuration Scope Actions page, select **Deploy**.

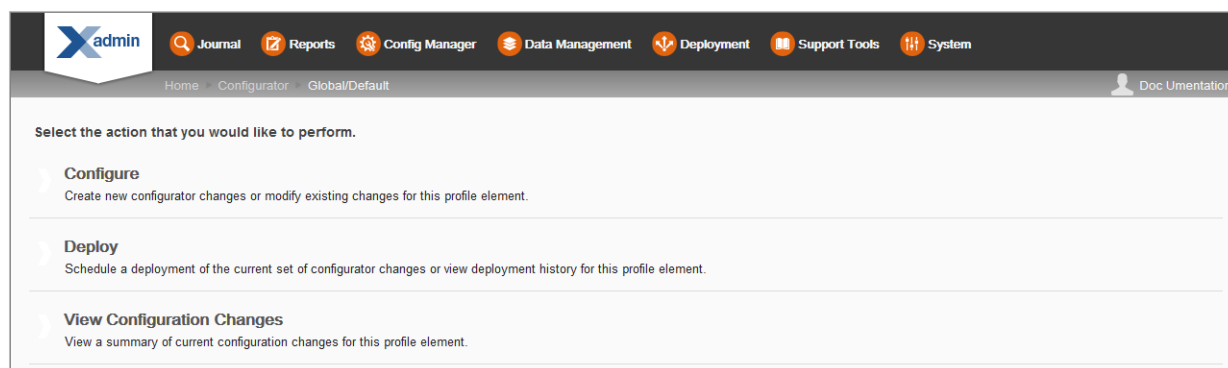


Figure 5-72: Configuration Scope Actions Page - Global Example

4. At the Schedule Deployment Page, select **Deployed Versions**:

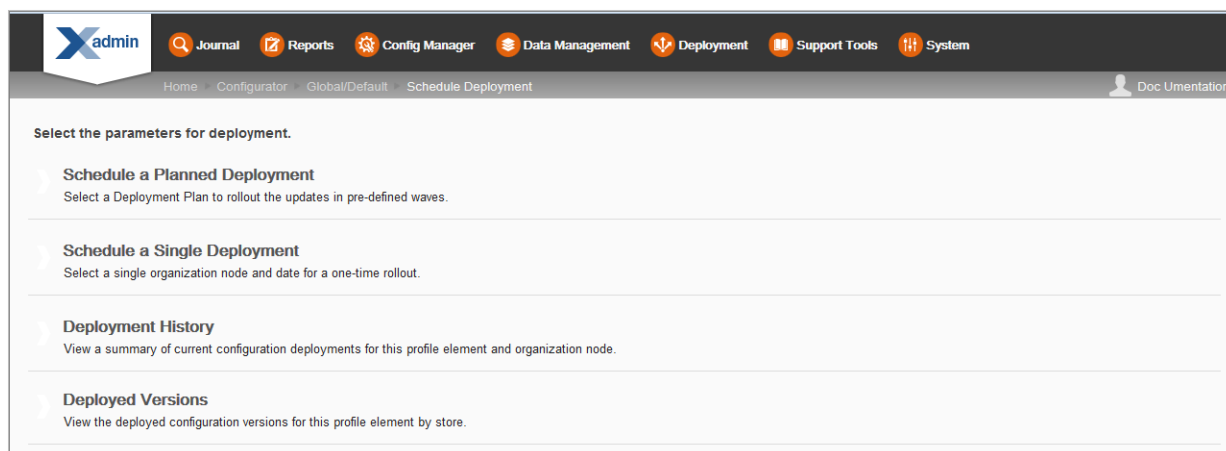


Figure 5-73: Schedule Deployment Page - Global Scope Example

5. With the pie chart displayed, click on a section to display a list of the stores to which the version number was deployed.

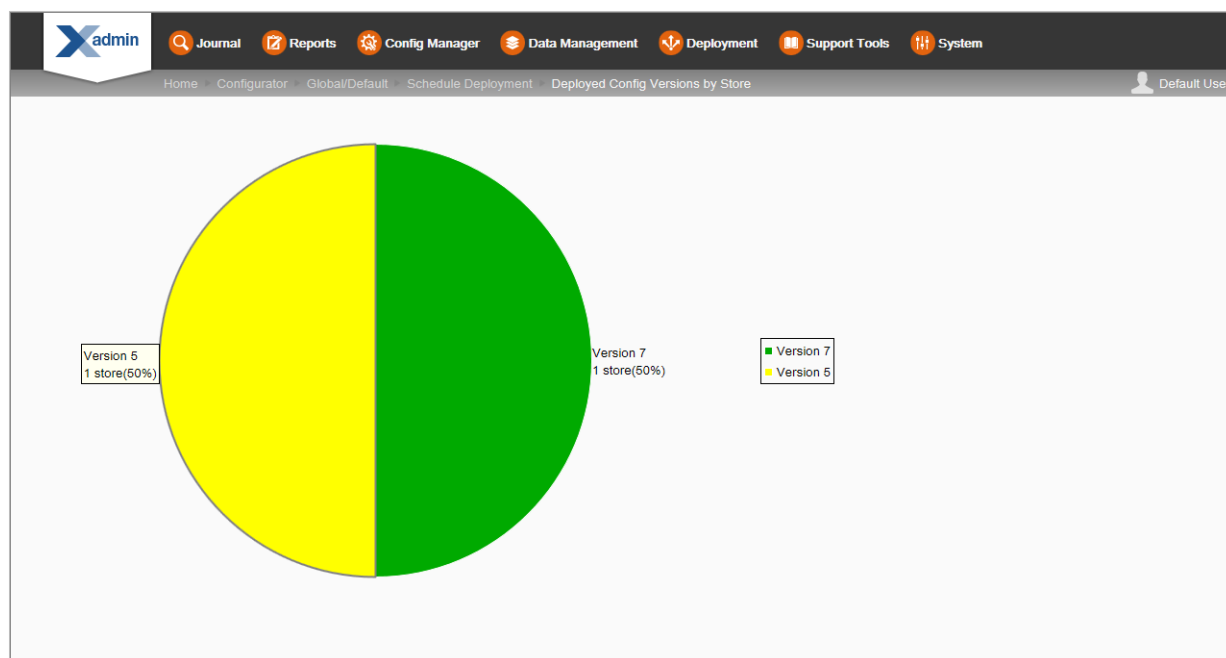


Figure 5-74: Deployed Config Versions By Store

The pie chart represents the number of stores, and the version numbers deployed to those stores, based on the version reported from the primary register in the store.

The list includes the Store Name, Store ID, Phone Number, and Address.

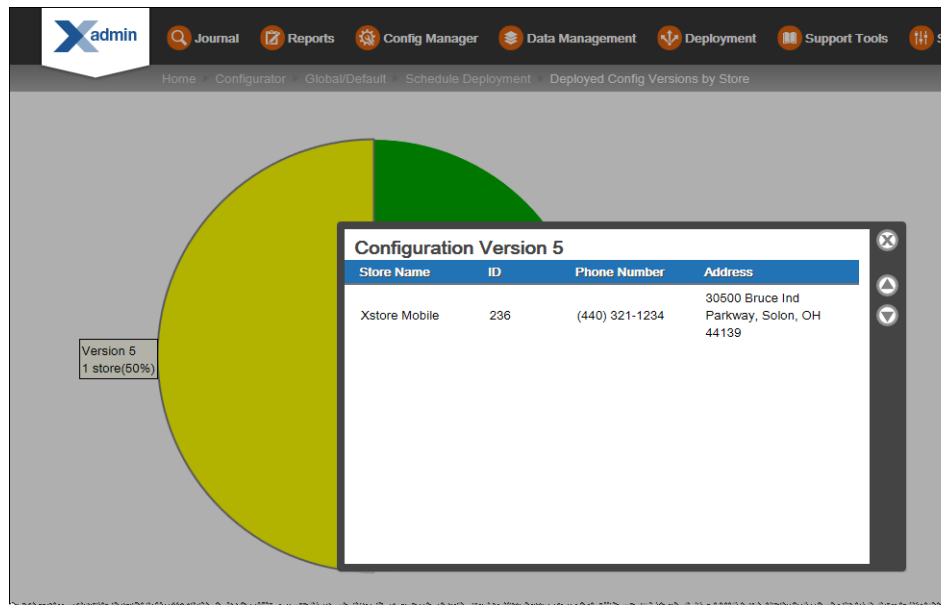


Figure 5-75: Deployed Config Versions By Store Detail

Data Management

Overview

Data Management is used to create, maintain, and deploy Xadmin data selectively, or globally across the entire organization. Data Management is also used to set up and maintain your organization hierarchy and store collections, and to initiate the end-of-year process to post the required roll-up data for stock valuation for all items and stores.

The logged-in user is assumed to represent some tier of the organization. For this reason, the user's assigned org node hierarchy will determine the data he/she has access to. See [Chapter 2, "Roles, Users, and Security Access" on page 9](#) for more information about users and security access.

The following data can be configured in Data Management:

In Data Manager

- Merchandise & Non Merchandise Items
- Vendors
- Employee Records
- Exchange Rates
- Store Information
- Taxes
- Store Messages
- Employee Tasks

In Organization Hierarchy

- Organization Hierarchy Maintenance
- Organization Hierarchy Levels
- Store Collections

In Roll-up Stock Valuation

- Stock Valuation Year End Roll-up

About this Chapter

Data Management allows you to:

- Change or create data for your organization. See [“Managing Data” on page 136](#).
- View or deploy pending data changes for your organization. See [“Viewing & Deploying the Data Changes” on page 182](#).
- Redeploy data from one org node to another. See [“Data Publisher - Redeploying Data” on page 185](#).
- Set up or edit your organization hierarchy, including Store Collections. See [“Managing the Organization Hierarchy” on page 188](#).
- Initiate the end-of-year process to post the required roll-up data for stock valuation for all items and stores. See [“Stock Valuation Year End Roll-up” on page 196](#).

Where To Look For Additional Information

- **Xstore Database Dictionary** - The *Xstore Database Dictionary* provides Xstore database detail and schema information. This dictionary provides a description of each table as well as a listing of all of the columns in each table.
- **Xadmin Database Dictionary** - The *Xadmin Database Dictionary* provides Xcenter database detail and schema information. This dictionary provides a description of each table as well as a listing of all of the columns in each table.
- **Xstore Host Interface Guide** - The *Xstore Host Interface* guide provides information about the files accepted for processing updates to Xstore operating tables. In addition, this guide also provides information about the DataLoader application that is responsible for translating flat data files into database data that can be used by Xstore.

About Data Management

Data Manager changes are collected into “data bundles” containing all of the changes made within a particular org level during a given day. The changes collected in the data bundle will be deployed to their targeted stores automatically at the end of the day, or can be deployed immediately if needed. When you make changes in Data Manager and deploy them, they automatically update the Xcenter database; there is no DataLoader file created and no DataLoader processing necessary. If anything fails, it can be found in the Xcenter or Xadmin log file.

Use the **Pending Modifications** feature of Data Manager to delete or view the details of the data bundles before they are deployed.

Use the **Data Publisher** feature to deploy data from Xcenter to an org node. Deployed data will include all the data available to the targeted org node (within the categories selected by the user) and comes from Xcenter.

Managing Data

1. From the Xadmin menu, select **Data Management** --> *Data Manager*, or click the [Data Manager](#) link in the **Data Management** panel.
2. At the Data Manager page, you have the following options:

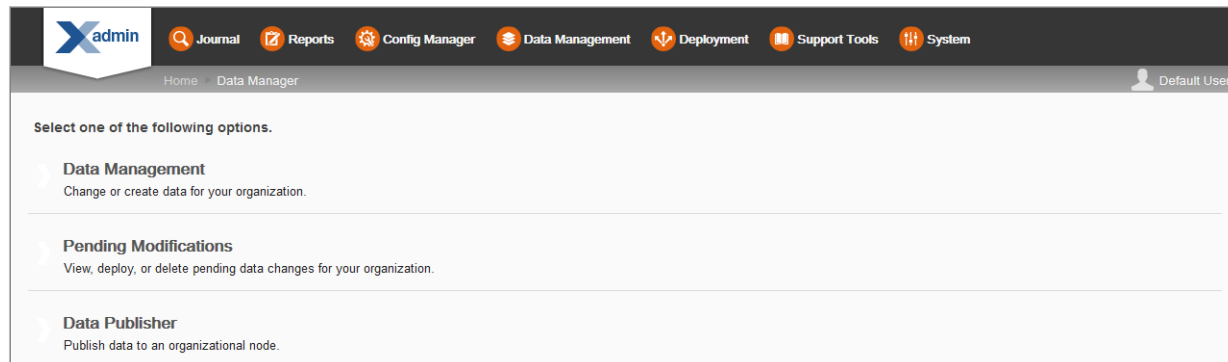


Figure 6-1: Data Manager Page

- ☐ To change or create data for your organization, click **Data Management**. Continue with step 3 below.
 - ☐ To view or deploy pending data changes for your organization, click **Pending Modifications** and skip to [“Viewing & Deploying the Data Changes” on page 182](#).
 - ☐ To transfer data from one org node to another, click **Data Publisher** and skip to [“Data Publisher - Redeploying Data” on page 185](#), step 3.
3. Select the **Organization Node** for the Data change, then click **Next**.



Only the Organization Nodes the logged-in user has privileges to use will be listed here.

4. Select a Data option.

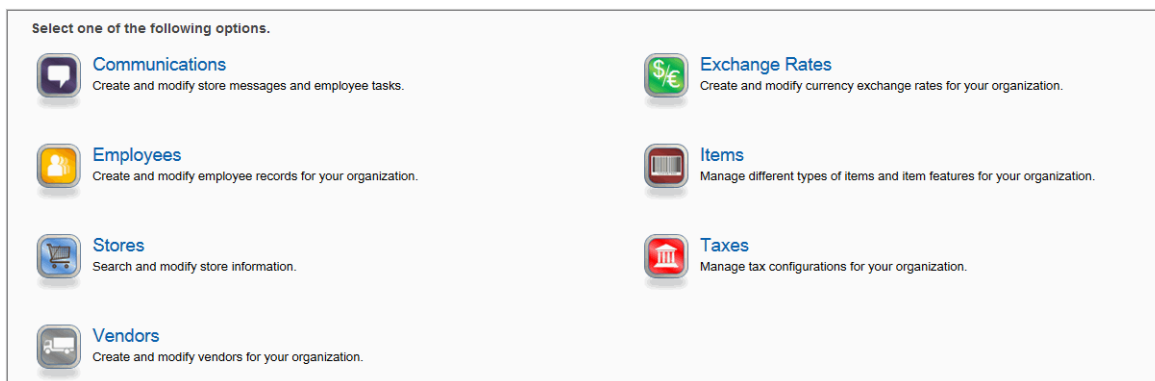


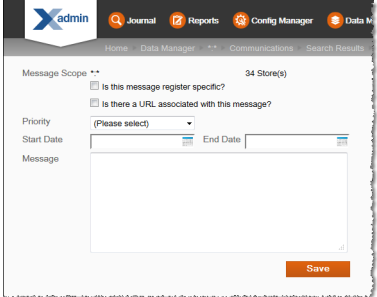
Figure 6-2: Data Options Page

5. At the page for the selected Data option you can add a new record or modify an existing record:

- ☐ To add a new record for the Data option using the wizard format, click **Add New**[†]. When adding a new record to a Data option, all fields will be blank.
- ☐ To edit an existing record for the Data option, click the record to open the editing window. When editing a Data option record, some fields cannot be changed.



[†]For Data options that do not use a wizard format, information is added and edited in a Data window. After completing the required fields, click **Save**.

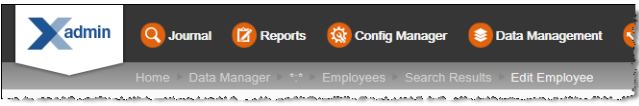


6. Follow the prompts to manage the data for the selected option:

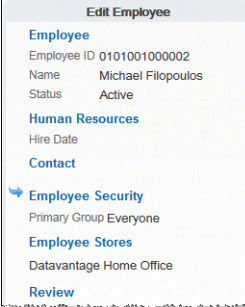
- ☐ After completing a page, click **next** when applicable to navigate to the next page until setup is complete. ◀ previous save cancel next ▶
- ☐ You can click **previous** to return to the previous page when applicable.



The breadcrumbs displayed at the top of each page can be used to navigate through the various pages of the activity.



In addition to the breadcrumbs at the top of each page, the side panel on each page shows where you are in the process and can also be used to navigate the various steps of the process as needed.



- ☐ To exit without saving any changes, click **cancel**. When prompted, click **Yes** to confirm you do not want to save any changes.
7. When setup is complete, and you have reviewed your changes, click **save**.

Data Manager Options

- [“Items” on page 139](#) - Use this feature to manage different types of items, non-merchandise items, and item matrix features for your organization and to manage the merchandise hierarchy.
- [“Vendors” on page 160](#) - Use this feature to create and modify vendors for your organization.
- [“Employees” on page 162](#) - Use this feature to create and modify employee records for your organization.
- [“Taxes” on page 165](#) - Use this feature to manage tax configurations for your organization.
- [“Communications” on page 173](#) - Use this feature to create and modify store messages and employee tasks.
- [“Exchange Rates” on page 177](#) - Use this feature to create and modify currency exchange rates for your organization.
- [“Stores” on page 178](#) - Use this feature to search for and modify store information.



*This Data Manager **Stores** option allows you to search for and modify store information for an existing store only. To set up a new store, see [“Managing the Organization Hierarchy” on page 188](#).*

Refer to each section for more information about the fields for each Data option.

Items

Use this feature to manage different types of items and item features for your organization.

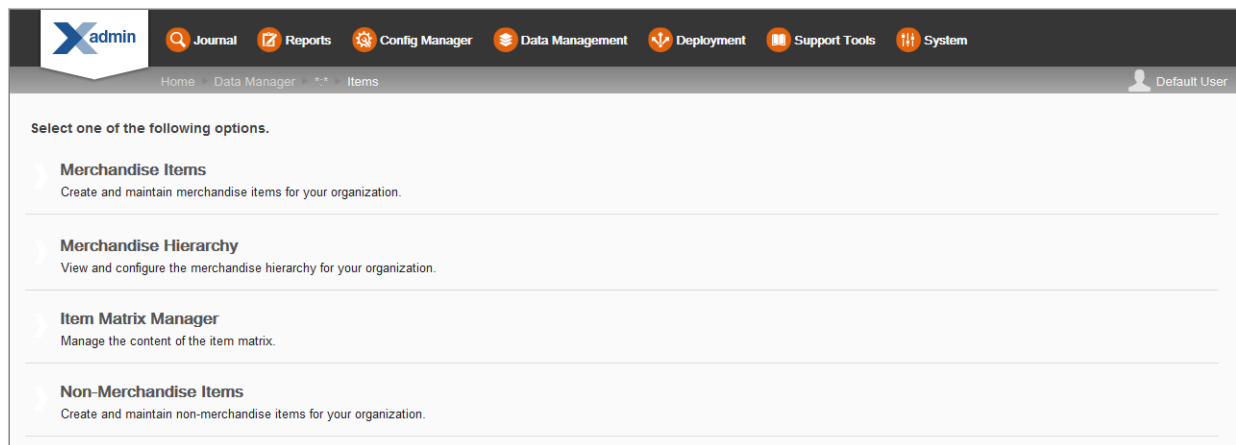


Figure 6-3: Data Manager - Items Page

- To create and manage merchandise items (including prices and attached items), click **Merchandise Items**. See [Merchandise Items](#).
- To manage the merchandise hierarchy, click **Merchandise Hierarchy**. See ["Merchandise Hierarchy" on page 150](#).
- To manage the item matrix settings, click **Item Matrix Manager**. See ["Item Matrix Manager" on page 157](#).
- To create and manage non-merchandise items (including prices), click **Non-Merchandise Items**. See ["Non-Merchandise Items" on page 154](#).

Merchandise Items

Figure 6-4: Item Maintenance Page

If adding a new item:

At the Item Maintenance page, click **Add New** to create a new item.

If editing an existing item:

At the Item Maintenance page, enter search criteria and click **Search** to find/edit an existing item in your organization. If you do not enter any criteria before selecting Search, all items in your organization will be returned in the search. To edit information for an existing item, select the row from the search results list and click **Edit** at the Item Information window ([Figure 6-5 on page 144](#)).



To view and/or edit **item prices**, refer to ["Item Prices" on page 144](#) for procedural information.

See [step 6 on page 137](#) for additional procedural information.

The following **Item Maintenance** fields are available:

Basic merchandise information

Field	Description
Item ID [REQUIRED]	Enter the item identifier. This field cannot be edited for existing items.
Description [REQUIRED]	Enter the item description.
Prompt for Description check box	Select this check box if the item description must be manually entered when this item is sold.

Basic merchandise information (continued)

Field	Description
Tax Group [REQUIRED]	Select the item's tax group from the drop-down list. Possible values are from the Tax Group table (tax_tax_group).
Availability	Select the product availability to determine whether or not an item is available for sale: Available, Not Sellable at POS, or Recalled.
Stock Status check box	If applicable, select this option and type the item's status based on its stock availability when prompted for a value. For example, RESTRICTED_QTY, DISCONTINUED, CLEARANCE, etc.
Commission check box	If applicable, select this option if the item qualifies for commission.
Image check box	If applicable, select this option and type the file path/URL when prompted.
Attached Items check box	Select this option if the item has attached items. (See "Attached Items" on page 147 for more information about setting up attached items.)
Serial Number check box	Select this option if a serial number is required.

Merchandise attributes

Field	Description
Department	Select the item's department from the drop-down list. Possible values are from the itm_merch_hierarchy table where level code is DEPARTMENT.
Subdepartment	Select the item's subdepartment from the drop-down list. Possible values are from the itm_merch_hierarchy table where level code is SUBDEPARTMENT.
Class	Select the item's class from the drop-down list. Possible values are from the itm_merch_hierarchy table where level code is CLASS.
Subclass	Select the item's subclass from the drop-down list. Possible values are from the itm_merch_hierarchy table where level code is SUBCLASS.
Style check box	Select this option if the item is associated with a style, then enter the style ID when prompted.

Merchandise attributes (continued)

Field	Description
Season check box	Select this option if the item is associated with a season, then enter the season code when prompted.
Vendor check box	Select this option if the item is associated with a vendor, then select the vendor from the drop-down list when prompted.
Item UPCs	Enter the UPC for the item and click Add . You can enter as many UPCs as needed. After adding at least one UPC, a Delete option will be available to remove a UPC if needed.

Quantity attributes

Field	Description
Sale Quantity check box	Select this option if the item quantity cannot be changed from 1. Note: This option will disable all other item quantity options listed here.
Quantity Prompt check box	Select this option if the item quantity must be manually entered when this item is sold.
Weight Prompt check box	Select this option if the item weight must be manually entered when this item is sold.
Initial Sale Quantity check box	Select this option if the item is sold in a quantity other than one. If selected, enter the initial quantity at which this item must be sold.
Minimum Sale Quantity check box	Select this option if the item has a minimum sale quantity. If selected, enter the minimum quantity of this item that may be sold in a single transaction.
Maximum Sale Quantity check box	Select this option if the item has a maximum sale quantity. If selected, enter the maximum quantity of this item that may be sold in a single transaction.

Customer-related attributes

Field	Description
Customer Information Required check box	Select this option if the system prompts for customer information when the item is sold. If selected, a prompt for information will be displayed. Select whether the information is required or optional: ■ Prompt, entry is required ■ Prompt, entry is optional
Purchaser Minimum Age Required check box	Select this option if a minimum age is required to purchase the item. If selected, enter the minimum age (in years) required to purchase the item.

Item restriction attributes

Field	Description
Inventoried check box	Select this option if inventory levels are tracked for this item.
Item Type Restrictions	
Disallow Layaway check box	Select this option if this item cannot be added to a layaway transaction type.
Disallow Order check box	Select this option if this item cannot be ordered via Locate Order functionality.
Disallow Rain Check check box	Select this option if this item is not eligible for rain check functionality.
Disallow Returns check box	Select this option if this item cannot be added to a return transaction type.
Disallow Send Sale check box	Select this option if this item cannot be added to a send sale transaction type.
Disallow Special Order check box	Select this option if this item cannot be added to a special order transaction type.
Disallow Work Order check box	Select this option if this item cannot be added to a work order transaction type.
Price Change Restrictions	
Disallow Deal check box	Select this option if this item does not qualify for deals.

Item restriction attributes (continued)

Field	Description
Disallow Discount check box	Select this option if this item cannot be discounted.
Disallow Price Change check box	Select this option if this item price cannot be changed.

Value attributes

Field	Description
Unit Cost	Enter the cost for each retail sale unit of this item.
Initial List Price	Enter the retail price per sale unit of the item.
Prompt for Price check box	Select this option if the retail price must be manually entered when this item is sold.

Item Prices

When viewing item information, and if the selected item record is within your targeted org node, there is an option available to view and edit item pricing information. You can edit prices for your org node level only. However, you can view prices set above your org node level.

1. At the Item Maintenance page ([Figure 6-4 on page 140](#)), enter search criteria and select **Search** to find/edit an existing item in your organization.
2. At the Item search results list, select the item row from the list.
3. Click **Prices** at the Item Information window.

Figure 6-5: Item Information Window

- At the Item Prices page you can calculate the price of an item based on specified parameters, add a new price, or edit an existing price as needed.

Calculate the price of an item based on the parameters below. You can also add a new price or edit an existing one in the list.

6013
Houndstooth Sport Coat

What type of price should be used?

☐ Regular Price

☒ Customer Group Price: **Employee Family**

Quantity:

Start Date:

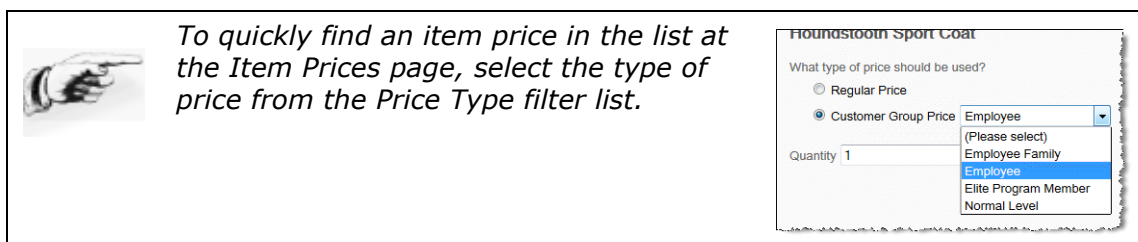
List Price: \$169.00

Your Price: **\$150.00**

Price Type: **(Please select)**

Org Node	Price Type	Pricing Qty	Start Date	End Date	Price
**	Employee	1	May 9, 2014		\$150.00
**	Employee Family	1	May 9, 2014	May 14, 2014	\$150.00
**	Promotional Price	1	May 9, 2014	May 31, 2014	\$155.00
**	Regular Price	1	Jan 1, 1900		\$169.00

Figure 6-6: Item Prices Page



To Calculate the Price of an Item

Use this procedure to identify the exact price that exists for an item based on the type of price (regular price or a customer group), the pricing quantity, and date.

- At the Item Prices page, enter the required information:
 - ☐ **Price Type [REQUIRED]** - What type of price should be used?
 - ☐ Regular Price
 - ☐ Customer Group Price - Select from the list of available price types for the organization. For example, Employee Family, Employee, Elite Program Member, Normal Level
 - ☐ **Pricing Quantity [REQUIRED]** - Enter the quantity of the item you are pricing.
 - ☐ **Start Date [REQUIRED]** when the price is in effect - Use the calendar to select the date for the item you are pricing.
- Click **Calculate**.
- The system retrieves the pricing information:

- ❑ If pricing information is found, the price for the item—based on the criteria you entered—is displayed.

- ❑ If no pricing information is found, the “No Price Found” message displays. If you want to add pricing information, click the “No Price Found” link to open the Add Item Price window.

At the Add Item Price window, the parameters you entered in the pricing search (Price Type, Pricing Qty, and Start Date) are populated automatically. See [To Add or Edit a Price](#) below for more information about adding/editing prices.

To Add or Edit a Price

- At the Item Prices page, do one of the following:
 - ❑ To add a new price, click **Add New** and complete the fields as required.
 - ❑ To edit an existing price, click a row in list and edit the fields as needed.

Figure 6-7: Item Price Window - Add New Price Example

Field	Description
Org Node	This value cannot be changed.
Price Type [REQUIRED]	Select a price type from the drop-down list of available price types. This value cannot be changed in Edit mode.
Pricing Qty [REQUIRED]	Enter the pricing quantity for this item. This value cannot be changed in Edit mode.
Start Date [REQUIRED]	Enter/select the starting date for this price to be in effect. This value cannot be changed in Edit mode.
End Date	Enter/select the ending date when this price is no longer in effect.
Price [REQUIRED]	Enter the item price.

- Click **Save**.

Attached Items

When viewing item information, if the selected item record is within your targeted org node and enabled for attached items, there is an option available to view and edit attached item information. You can edit attached items for your org node level only. See [“Basic merchandise information” on page 140](#) for attached item setup information.

1. At the Item Maintenance page ([Figure 6-4 on page 140](#)), enter search criteria and select **Search** to find/edit an existing item in your organization.
2. At the Item search results list, select the item row from the list.

Items that have “attached items” are shown with a green check mark ✓ on the Merchandise Items list page.

Item ID	Description	Department	Subdepartment	Class	Vendor ID	Attached Items
230003	Brown Shoe 11	740	740100	740100100		
230004	Black Shoe 10 Wide	740	740100	740100100		
3002	Black Dress w/ Scallop Neck	25005				✓
3003	Taupe/Rose Sleeveless Dress	25005				✓
3004	Sleeveless Triple Tier Dress	25005				✓
3005	Animal Print Carwash Dress	25005				✓
3006	Wine Text Duster Dress	25005				✓
3007	Purple Envelope Dress	25005				✓
3008	Black/Green Floral Dress	25005				✓

Figure 6-8: Merchandise Items List Page - With Attached Items

3. Click **Attached Items** at the Item Information window to open the Attached Items page.

Item 3010

Attached Items | Prices | Edit

General Information

Item ID: 3010
 Description: Black/White Sleeveless Dress
 Availability: N/A | Stock Status: N/A
 Tax Group: State/County Tax
 Commission Eligible: Yes
 Image Path/URL: None
 Attached Items: Yes

Classification Details

Department: 25005 | Subdepartment: N/A
 Class: N/A | Subclass: N/A
 Style ID: N/A
 Season: N/A
 Vendor ID: N/A
 Item UPCs: None

Measure Details

Force Quantity of One: No
 Prompt for Quantity: No
 Prompt for Weight: No
 Initial Sale Quantity: None
 Minimum Sale Quantity: None

Figure 6-9: Item Information Window - Attached Items Button

4. The Attached Items page lists the existing attached items for the selected merchandise item.

Enter the item ID of the attached item or search for it below.

Enter an item ID:

Add

Find an item to attach to the merchandise item.

Item ID: Equals

Description: Equals

Department: Equals (All Departments)

Subdepartment: Equals (All Subdepartments)

Class: Equals (All Classes)

Subclass: Equals (All Subclasses)

Vendor ID: Equals

Search

Org Node	Item ID	Description	Start Date	End Date	Prompt to Add?	
**	3007	Purple Envelope Dress	Jan 1, 1900		✓	✕
**	3008	Black/Green Floral Dress	Jan 1, 1900			✕
**	3005	Animal Print Carwash Dress	Jan 1, 1900		✓	✕

Figure 6-10: Attached Items Page

- ❑ To **add** an attached item to the sold item:
 - If you know the attached item Id, enter the Item Id in the “Enter an item ID” field and click **Add**. Continue with [step 2 on page 149](#).
 - If you do not know the item Id, enter search criteria and then click **Search** to find an item to attach to the merchandise item. Continue with [“To Add an Attached Item” on page 149](#).
- ❑ To **edit** an attached item, select the row you want to edit. Continue with [“To Edit an Attached Item” on page 150](#).
- ❑ To **delete** the relationship between the attached item and the sold item, click the delete icon ✕ associated with the attached item and click **Yes** when prompted to confirm the deletion.

To Add an Attached Item

1. At the Add Attached Item window, select the item and click **Add**.

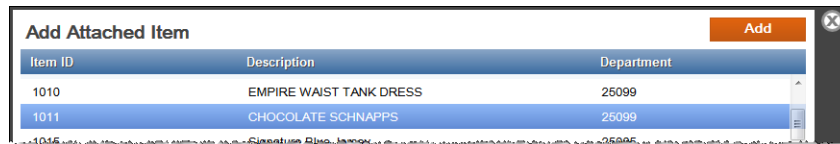


Figure 6-11: Add Attached Item Window

2. Enter the attached item information.

Sold Item: 3010 Black/White Sleeveless Dress
 Attached Item: 1011 CHOCOLATE SCHNAPPS
 Org Node: **
 Quantity to Add:
 Start Date:
 End Date:
☐ Do you want to prompt users before adding this item?
☐ Do you want to prompt users when returning this item?
 Save

- ☐ **Sold Item** - The merchandise item. [**CANNOT BE CHANGED**]
- ☐ **Attached Item** - The item attached to the merchandise item. [**CANNOT BE CHANGED**]
- ☐ **Org Node** - The org node that was targeted when the attached item relationship was originally made. [**CANNOT BE CHANGED**]
- ☐ **Quantity to Add** - [**REQUIRED**] The quantity of the item that is to be attached.
- ☐ **Start Date** - [**REQUIRED**] The starting date for this attached item.
- ☐ **End Date** - The ending date for this attached item.
- ☐ **Do you want to prompt users before adding this item** check box - Select to enable prompting.
- ☐ **Do you want to prompt users when returning this item** check box - Select to enable prompting.

3. Click **Save**. The system returns to the Attached Items page.

To Edit an Attached Item

- After selecting the row you want to change, edit the attached item information.
 - ☐ **Sold Item** - The merchandise item. [**CANNOT BE CHANGED**]
 - ☐ **Attached Item** - The item attached to the merchandise item. [**CANNOT BE CHANGED**]
 - ☐ **Org Node** - The org node that was targeted when the attached item relationship was originally made. [**CANNOT BE CHANGED**]
 - ☐ **Quantity to Add** - [**REQUIRED**] The quantity of the item that is to be attached.
 - ☐ **Start Date** - [**REQUIRED**] The starting date for this attached item.
 - ☐ **End Date** - The ending date for this attached item.
 - ☐ **Do you want to prompt users before adding this item** check box - Select to enable prompting.
 - ☐ **Do you want to prompt users when returning this item** check box - Select to enable prompting.
- Click **Save**. The system returns to the Attached Items page.

Merchandise Hierarchy

...continued from ["Items" on page 139](#).

Select the **Merchandise Hierarchy** option (Figure 6-3 on page 139) to view and configure the merchandise hierarchy for your organization.

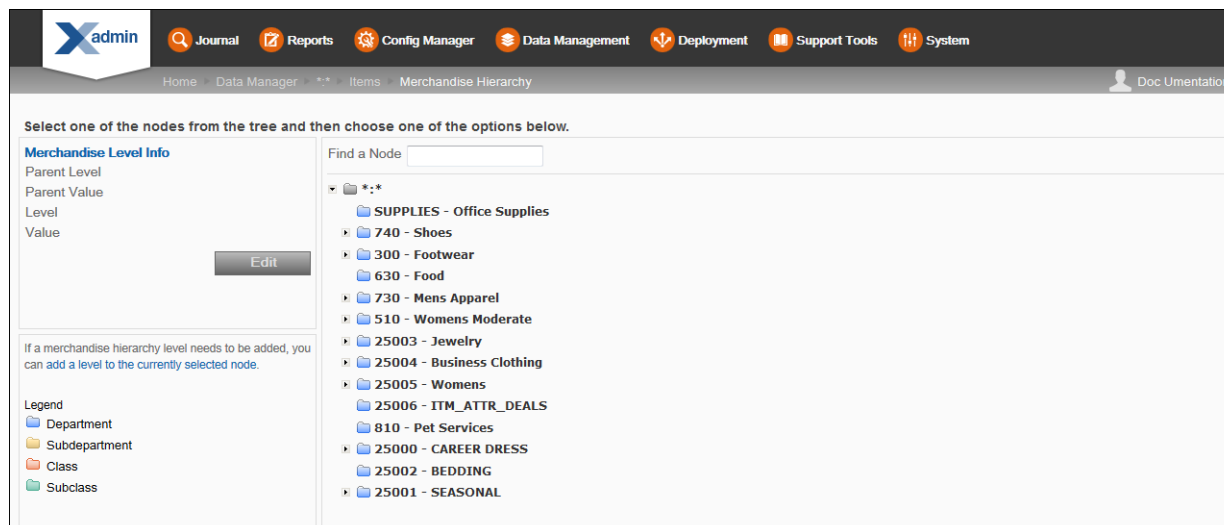


Figure 6-12: Merchandise Hierarchy Maintenance Page - Dept 300 Selected

The following information is shown on this page:

Merchandise Level Information - This area shows information about the selected level of the merchandise hierarchy, including the Parent Level and Value and the Item Level and Value.

Merchandise Level Info	
Parent Level	Root
Parent Value	N/A
Level	Department
Value	25001 SEASONAL
Hidden	☐
Edit	

If a level is inactive, it will be indicated as "Hidden".

Use the merchandise hierarchy tree to navigate and understand the hierarchy itself. (By default, the tree displays the Department level). When you select a merchandise hierarchy level in the tree view, the details of the level are displayed in the Merchandise Level Information panel.

Click **Edit** to update the merchandise level information displayed in the panel. See [Editing a Merchandise Hierarchy Level](#) below.

Action Panel - This area contains the link to add to an organization's organization hierarchy. The color legend shown here corresponds to the colors in the tree view for the merchandise hierarchy levels. To add new areas of a merchandise hierarchy, see ["Adding to a Merchandise Hierarchy Level" on page 152](#).



You cannot add a new merchandise hierarchy level. Levels are restricted to what currently exists in your organization: Department, Subdepartment, Class, etc.

Editing a Merchandise Hierarchy Level

1. In the tree view, select the parent hierarchy level for the planned edit to the merchandise hierarchy.



Use the "Find a Node" search box to quickly locate a node in the merchandise hierarchy tree.

2. With the node selected, click **Edit**.
3. Edit the information as needed:

Edit Merchandise Level

Parent Level

Department

Parent Value

300 Footwear

Level

Subdepartment

Hierarchy ID

300200

Description

Womens Footwear

Display Order

0

☒

Is this merchandise level visible?

Save

Figure 6-13: Edit Merchandise Level

- ☐ **Parent Level** - The parent merchandise hierarchy level. [**CANNOT BE CHANGED**]

- ❑ **Parent Value** - The parent merchandise hierarchy value. [**CANNOT BE CHANGED**]
- ❑ **Level** - The level type. (For example, if the parent level is a Department, then this level is Subdepartment based on the Merchandise Hierarchy setup shown here). [**CANNOT BE CHANGED**]
- ❑ **Hierarchy ID** - The identifier for the merchandise hierarchy level. [**CANNOT BE CHANGED**]
- ❑ **Description** - The description for the merchandise hierarchy level.
- ❑ **Display Order** - The display order for the merchandise hierarchy level.
- ❑ **Is this merchandise level visible?** check box - When selected, the merchandise level is active and visible. To deactivate the merchandise hierarchy level, remove the check mark from the check box. The deactivated level and all sublevels are grayed out on the page and a message displays in the Merchandise Level Information panel indicating that the level is hidden.



If needed, click  to close the window without saving your changes. If prompted, click Yes to confirm you do not want to save any changes.

4. Click **Save** to close the window. The merchandise hierarchy level is updated as specified.

Adding to a Merchandise Hierarchy Level

1. In the tree view, select the parent hierarchy level for the planned addition to the merchandise hierarchy.



Use the "Find a Node" search box to quickly locate a node in the merchandise hierarchy tree.

2. With the node selected, click the link [add a level to the currently selected node.](#)

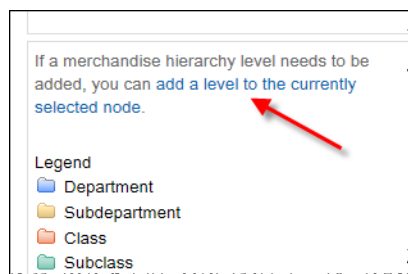


Figure 6-14: Add a Level Link

3. Enter the information for the new level:

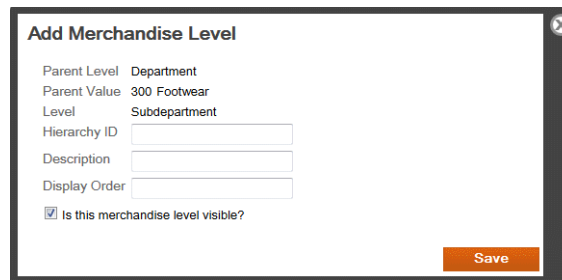


Figure 6-15: Add Merchandise Level

- ❑ **Parent Level** - The parent merchandise hierarchy level. [**CANNOT BE CHANGED**]
- ❑ **Parent Value** - The parent merchandise hierarchy value. [**CANNOT BE CHANGED**]
- ❑ **Level** - The level type to be created. (For example, if the parent level is a Department, then this level is Subdepartment based on the Merchandise Hierarchy setup shown here). [**CANNOT BE CHANGED**]
- ❑ **Hierarchy ID** - The identifier for the new merchandise hierarchy level. [**REQUIRED**]
- ❑ **Description** - The description for the new merchandise hierarchy level. [**REQUIRED**]
- ❑ **Display Order** - The display order for the new merchandise hierarchy level.
- ❑ **Is this merchandise level visible?** check box - When selected, the merchandise level is active and visible. To deactivate the merchandise hierarchy level, remove the check mark from the check box. The deactivated level and all sublevels are grayed out on the page and a message displays in the Merchandise Level Information panel indicating that the level is hidden.



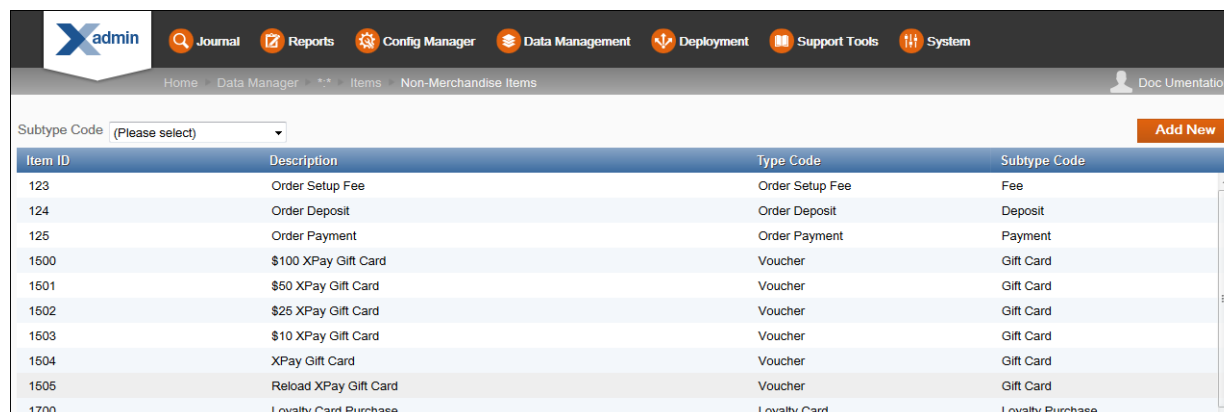
If needed, click  to close the window without saving your changes. When prompted, click Yes to confirm you do not want to save any changes.

4. Click **Save** to close the window. The new merchandise hierarchy level is added to the tree.

Non-Merchandise Items

...continued from ["Items" on page 139](#).

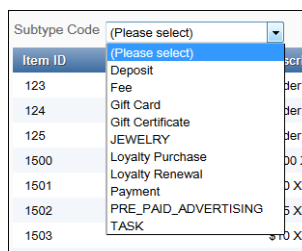
Select the **Non-Merchandise Items** option (Figure 6-3 on page 139) to view and configure the merchandise hierarchy for your organization. The Non-Merchandise Items Maintenance page displays all non-merchandise items available to the targeted org node.



Item ID	Description	Type Code	Subtype Code
123	Order Setup Fee	Order Setup Fee	Fee
124	Order Deposit	Order Deposit	Deposit
125	Order Payment	Order Payment	Payment
1500	\$100 XPay Gift Card	Voucher	Gift Card
1501	\$50 XPay Gift Card	Voucher	Gift Card
1502	\$25 XPay Gift Card	Voucher	Gift Card
1503	\$10 XPay Gift Card	Voucher	Gift Card
1504	XPay Gift Card	Voucher	Gift Card
1505	Reload XPay Gift Card	Voucher	Gift Card
1700	Loyalty Card Purchase	Loyalty Card	Loyalty Purchase

Figure 6-16: Non-Merchandise Items Maintenance Page

Use the Subtype Code filter to find non-merchandise items within the list of non-merchandise items.



If adding a new non-merchandise item:

At the Non-Merchandise Items Maintenance page, click **Add New** to create a new item.

If editing an existing item:

At the Non-Merchandise Items Maintenance page, select the row from the non-merchandise items list and click **Edit** at the item information window.



To view and/or edit **item prices**, refer to ["Item Prices" on page 144](#), step 2, for procedural information.

See [step 6 on page 137](#) for additional procedural information.

The following **Non-Merchandise Item Maintenance** fields are available:

Basic non-merchandise information

Field	Description
Item ID [REQUIRED]	Enter the item identifier. This field cannot be edited for existing items.
Description [REQUIRED]	Enter the item description.
Prompt for Description check box	Select this check box if the item description must be manually entered when this item is sold.
Tax Group [REQUIRED]	Select the item's tax group from the drop-down list. Possible values are from the Tax Group table (tax_tax_group).
Availability	Select the product availability to determine whether or not an item is available for sale: Available, Not Sellable at POS, or Recalled.
Commission check box	If applicable, select this option if the item qualifies for commission.
Image check box	If applicable, select this option and type the file path/URL when prompted.
Serial Number check box	Select this option if a serial number is required.

Quantity attributes

Field	Description
Sale Quantity check box	Select this option if the item quantity cannot be changed from 1. Note: This option will disable all other item quantity options listed here.
Quantity Prompt check box	Select this option if the item quantity must be manually entered when this item is sold.
Initial Sale Quantity check box	Select this option if the item is sold in a quantity other than one. If selected, enter the initial quantity at which this item must be sold.
Minimum Sale Quantity check box	Select this option if the item has a minimum sale quantity. If selected, enter the minimum quantity of this item that may be sold in a single transaction.

Quantity attributes (continued)

Field	Description
Maximum Sale Quantity check box	Select this option if the item has a maximum sale quantity. If selected, enter the maximum quantity of this item that may be sold in a single transaction.

Customer-related attributes

Field	Description
Customer Information Required check box	Select this option if the system prompts for customer information when the item is sold. If selected, a prompt for information will be displayed. Select whether the information is required or optional: ■ Prompt, entry is required ■ Prompt, entry is optional
Purchaser Minimum Age Required check box	Select this option if a minimum age is required to purchase the item. If selected, enter the minimum age (in years) required to purchase the item.

Item restriction attributes

Field	Description
Inventoried check box	Select this option if inventory levels are tracked for this item.
Item Type Restrictions	
Disallow Layaway check box	Select this option if this item cannot be added to a layaway transaction type.
Disallow Order check box	Select this option if item cannot be ordered via Locate Order functionality.
Disallow Returns check box	Select this option if this item cannot be added to a return transaction type.
Disallow Send Sale check box	Select this option if this item cannot be added to a send sale transaction type.
Disallow Special Order check box	Select this option if this item cannot be added to a special order transaction type.
Disallow Work Order check box	Select this option if this item cannot be added to a work order transaction type.

Item restriction attributes (continued)

Field	Description
Price Change Restrictions	
Disallow Deal check box	Select this option if this item does not qualify for deals.
Disallow Discount check box	Select this option if this item cannot be discounted.
Disallow Price Change check box	Select this option if this item price cannot be changed.

Specific non-merchandise item attributes

Field	Description
Type Code [REQUIRED]	Select the type code for the non-merchandise item. If needed, select Other to create a new type code and enter new type code in the Type Code field. Note: A new type code created here will only be for this non-merchandise item and will not be available for any other items.
Subtype Code [REQUIRED]	Select the subtype code for the non-merchandise item.
Exclude From Net Sales check box	Select this option if the non-merchandise item will not be attributed as revenue.
Prompt for Price check box	Select this option if the retail price must be manually entered when this item is sold.

Item Matrix Manager

...continued from ["Items" on page 139](#).

Select the **Item Matrix Manager** option (Figure 6-3 on page 139) to manage the item matrix information for your organization.

At the Item Matrix Manager page, manage the look and feel of the item matrix in Xstore. Use this feature to assign matrix colors to merchandise hierarchy and/or item records, mark merchandise hierarchy and/or item records as hidden (items labeled as hidden will not show

in the item matrix in Xstore), and change the sort order of merchandise hierarchy and/or item records to specify how they will display within the item matrix in Xstore.

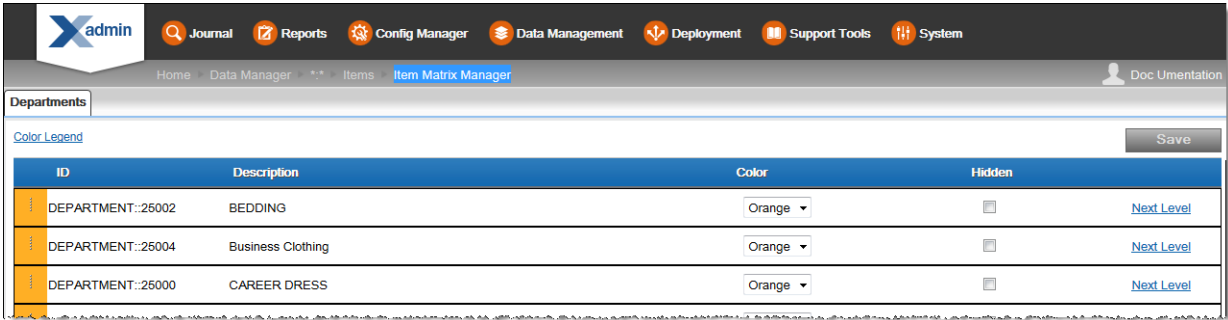


Figure 6-17: Item Matrix Manager Page

Fields on the Item Matrix screen

Field	Description
 Color Area	Shows the color currently associated with the merchandise hierarchy or item and is used to drag and drop the selection to another location in the list.
ID	The merchandise hierarchy or item identifier.
Description	The merchandise hierarchy or item description.
Color	The color associated with the merchandise hierarchy or item for display in the item matrix in Xstore.
Hidden	If the check box is selected, the merchandise hierarchy or item will not show in the item matrix in Xstore.

Links on the Item Matrix screen

Link	Description
Color Legend	Opens a window showing the available color palette.
Next Level	Opens a new page showing the items in next merchandise hierarchy level.

To Assign Matrix Colors To Merchandise Hierarchy And/Or Item Records

1. Select a color from the Color drop-down list for the merchandise hierarchy or item record you want to change.

The color in the shaded area associated with the item is changed to the selected color.





To view the available colors, click the [Color Legend](#) link.

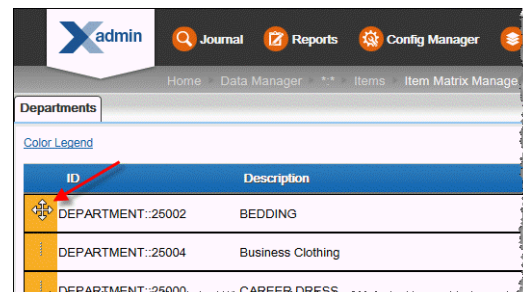
The color Gray shown in the legend is not available from the drop-down list of available colors. Gray is used to denote "Hidden" buttons only.

Aqua	Blue	Bronze	Brown
Gray	Green	Maroon	Orange
Purple	Red	Teal	Yellow

2. Click **Save** to save your changes.

To Change the Sort Order

1. Hover over the shaded area of the row you want to move.
2. With the move icon  showing for the selected item row, drag and drop the item to a new location in the list to change the sort order.



3. Click **Save** to save your changes.

To Specify Merchandise Hierarchy And/Or Item Records As Hidden

1. Click the Hidden ☒ check box for the merchandise hierarchy or item record.

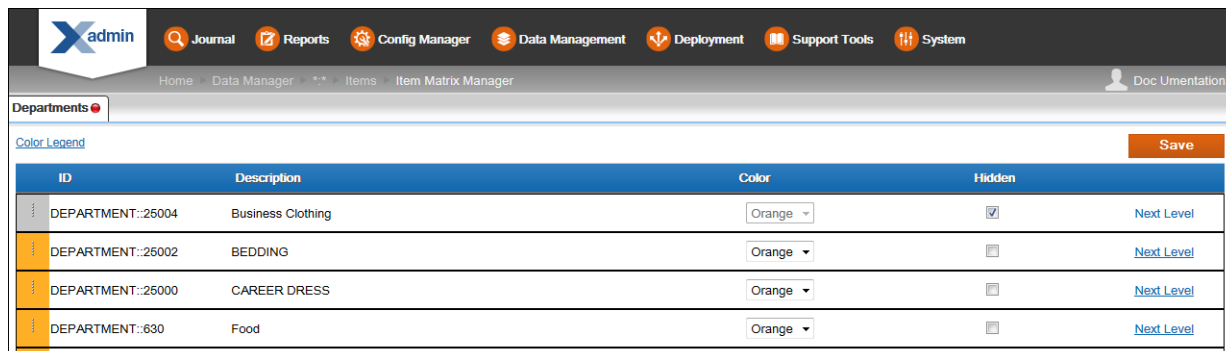


Figure 6-18: Hidden Check Box Selected

When the Hidden check box is selected, the color drop-down list and the Next Level link are no longer available for selection. In addition, the color in the shaded area associated with the item is changed to gray.

2. Click **Save** to save your changes.

Vendors

Use this feature to create and modify vendors for your organization.

Figure 6-19: Vendor Maintenance Page

If adding a new vendor:

At the Vendor Maintenance page, click **Add New** to create a new vendor.

If editing an existing vendor:

Enter search criteria and click **Search** to find/edit a vendor in your organization. If you do not enter any criteria before selecting Search, all vendors in your organization will be returned in the search. To edit information for an existing vendor, select the row from the search results list and click **Edit** at the vendor information screen.



To delete an existing vendor, click the Delete  icon associated with the record at the search results list.

See [step 6 on page 137](#) for additional procedural information.

Complete the following **Vendor Maintenance** fields, then click **Save**.

Basic vendor attributes

Field	Description
Vendor ID [REQUIRED]	Enter a unique identifier assigned to a vendor. This value cannot be changed in Edit mode.
Vendor Name [REQUIRED]	Enter the name of the vendor.
Contact Name	Enter the primary contact person for the vendor.
Contact Telephone	Enter the primary telephone number of the primary contact.

Basic vendor attributes (continued)

Field	Description
Buyer Name	Enter the name of the buyer associated with the vendor.

Vendor address attributes

Field	Description
Address 1	Enter the first line of the mailing address.
Address 2	Enter the second line of the mailing address.
City	Enter the city component of the mailing address.
State	Enter the State/Province component of the mailing address.
Postal Code	Enter the Postal or ZIP code component of the mailing address.
Country	Enter the country component of the address.
Vendor Telephone	Enter the primary telephone number.

Employees

Use this feature to create and modify employee records for your organization.

Figure 6-20: Employee Maintenance Page

If adding a new employee record:

At the Employee Maintenance page, click **Add New** to create a new employee record.

If editing an existing employee record:

Enter search criteria and click **Search** to find/edit an existing employee record in your organization. If you do not enter any criteria before selecting Search, all employee records in your organization will be returned in the search. To edit information for an existing employee record, select the row from the search results list and click **Edit** at the employee information screen.



To delete an existing employee record, click the Delete  icon associated with the record at the search results list.

See [step 6 on page 137](#) for additional procedural information.

The following **Employee Record Maintenance** fields are available:

Basic employee attributes

Field	Description
Employee ID [REQUIRED]	Enter the unique number used to identify a store employee. This field cannot be changed in edit mode.
Login ID	If used, enter the employee's user ID for logging in to the system. (Only displayed if Xstore is configured to use a Login ID.)
First Name [REQUIRED]	Enter the employee's first name.
Middle Name	Enter the employee's middle name.

Basic employee attributes (continued)

Field	Description
Last Name [REQUIRED]	Enter the employee's last name. Note: Select a suffix from the drop-down list if applicable.
Language	Select the employee's preferred language.
Gender	Select the employee's gender, Male or Female.
Employment Status	Select the employee's status: Active, Inactive, Terminated. Note: If <i>Terminated</i> status is selected, the termination date is required. Enter the termination date in the <i>Termination Date</i> field.
Activation Date	Enter the date on which the employee became active.

Detailed HR information attributes

Field	Description
Job Title	Enter the employee's job title.
Birth Date	Enter the employee's date of birth.
Base Pay	Enter the employee's base pay.
Pay Status	Select the employee's pay status; hourly or salaried.
Hire Date	Enter the date the employee was hired.
Last Review	Enter the date of the employee's last review.
Next Review	Enter the date of the employee's next review.
Extra Withholding check box	Select this option if the employee wants to have extra money withheld from his/her pay. Type the dollar amount to be withheld in the Amount field.
Overtime Eligible check box	Select this option if the employee is eligible for overtime.
Clock In Required check box	Select this option if the employee is required to clock in and out.

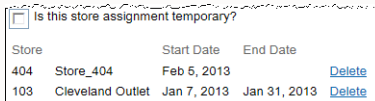
Contact information attributes

Field	Description
Address 1	Enter the first line of the mailing address.
Address 2	Enter the second line of the mailing address.
City	Enter the city component of the mailing address.
State	Enter the State/Province component of the mailing address.
Postal Code	Enter the Postal or ZIP code component of the mailing address.
Country	Enter the country component of the address.
Primary Phone	Enter the employee's primary phone number.
Other Phone	Enter the employee's alternate phone number.
Email	Enter the employee's email address.
Emergency Contact	Enter the name of an emergency contact for the employee.
Emergency Phone	Enter the phone number of the emergency contact for the employee.

Xstore security attributes

Field	Description
Primary Security Group [REQUIRED]	Select the fundamental security group to which this employee belongs.
Security Groups check box	Select any other security groups to which this employee belongs: Trainee, Cashier, Keyholder, Manager. Select all that apply. By default, the "Everyone" security group is required for all employees. This value cannot be changed.
Customer Groups check box	Select the customer groups to which this employee belongs. Select all that apply.

Assigned stores attributes

Field	Description
Store #	Enter the specific retail store within the organization the employee is assigned to.
Start Date	Enter the date the employee assignment begins at the store. Click Add Store to assign the employee to this store on the start date. Add as many stores/start dates as needed. Note: Click Add All Stores to assign the employee to all stores in the organization. The store information is added to the screen. Repeat until all stores where the employee works are listed. If needed, click Delete to remove an assigned store. 
Temporary Assignment check box	Select this option if the assignment is temporary. Enter the ending date for this temporary assignment.

Taxes

Use this feature to manage tax configurations for your organization.

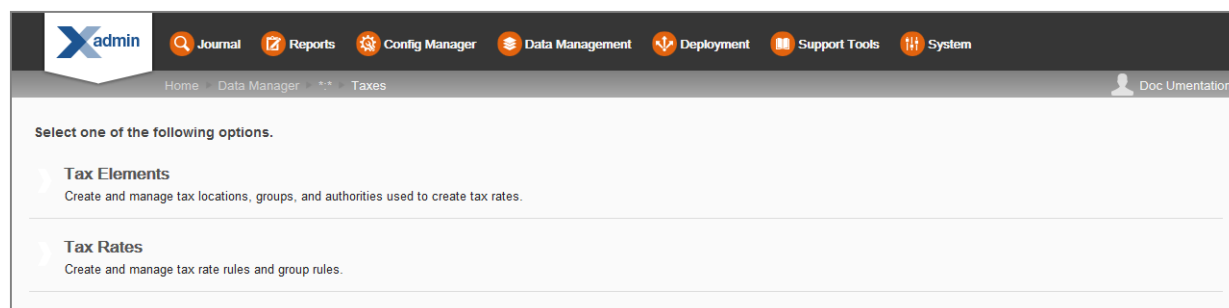


Figure 6-21: Data Manager - Taxes Page

- ❑ To set up and manage Tax Authorities, Tax Locations, Tax Brackets, and Tax Groups used to create the tax rates, click **Tax Elements**. See [Tax Elements](#) below.
- ❑ To set up and manage Tax Rates, click **Tax Rates**. See ["Tax Rates" on page 171](#).
Note: The *Tax Elements* must be set up before you can set up the Tax Rates.

Tax Elements

Set up the basic tax elements here before setting up the tax rate rules.

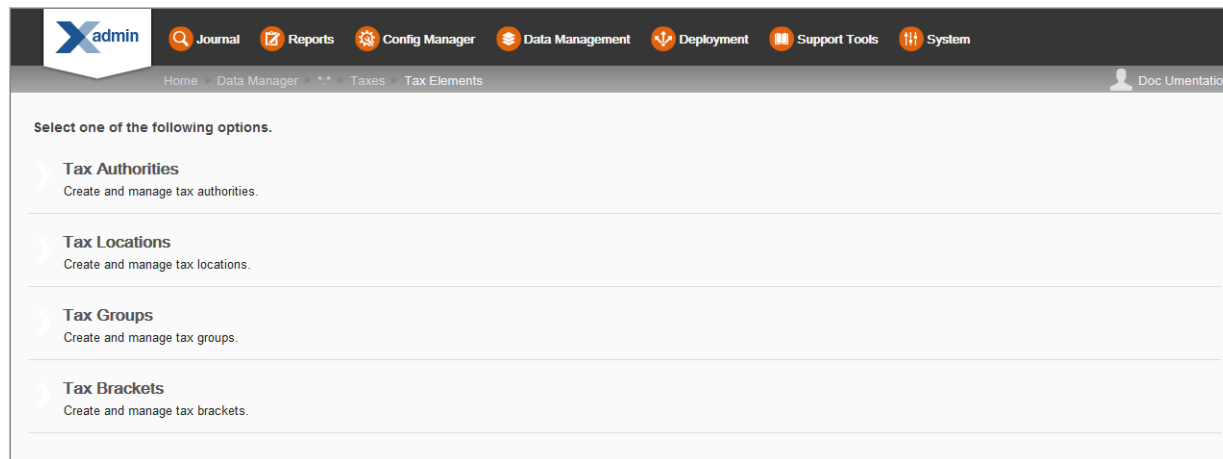


Figure 6-22: Tax Elements Page

- **Tax Authorities** - Identifies the name of the authority that imposes the tax, and also supplies the rounding rules that are used in the calculation. See ["Tax Authorities" on page 166](#).
- **Tax Locations** - Defines the tax locations that can be assigned to individual stores. See ["Tax Locations" on page 168](#).
- **Tax Groups** - Defines tax groups for items that are taxed according to the same rules. For example, certain food products may belong to the same tax group. After defining the tax groups, they may be assigned to individual items. See ["Tax Groups" on page 168](#).
- **Tax Brackets** - Defines the tax brackets used to calculate the sales tax for an item or transaction. See ["Tax Brackets" on page 169](#).

Tax Authorities

If adding a new tax authority:

1. At the Tax Authorities Maintenance page, click **Add New** to create a new tax authority.
2. Complete the fields as required, then click **Save**.

If editing an existing tax authority:

1. At the Tax Authorities Maintenance page, select a tax authority from the list of tax authorities that are currently available for the targeted org node.

2. Edit the fields as required, then click **Save**.

The following **Tax Authority** fields are available:

Field	Description
ID [REQUIRED]	Enter a unique identifier of a tax authority. The ID cannot be changed in edit mode.
Name [REQUIRED]	Enter the name of the tax authority.
Rounding Code	Select from the drop-down list of rounding codes. Codes indicate how tax is to be rounded when calculated. The list is populated using <code>TaxAuthorityUiContainer</code>. Values: - Always round down - Always round up - Round ceiling - Round floor - Round half down - Round half even - Round half up
Rounding Digits	Enter the number of digits to which rounding is to be calculated.

Tax Locations

If adding a new tax location:

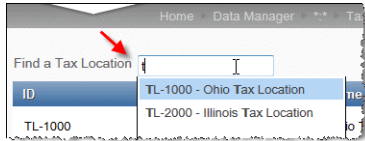
1. At the Tax Locations Maintenance page, click **Add New** to create a new tax location.
2. Complete the fields as required, then click **Save**.

If editing an existing tax location:

1. At the Tax Locations Maintenance page, select a tax location from the list.
2. Edit the fields as required, then click **Save**.



*To search for a specific tax location, begin typing the tax location description in the **Find a Tax Location** field.*



The following **Tax Location** fields are available:

Field	Description
ID [REQUIRED]	Enter a unique identifier of a tax location. The ID cannot be changed in edit mode.
Name [REQUIRED]	Enter the name of the tax location.
Description	Enter a text description of the tax location.



Any Tax Locations created here will be "pending deployment"; however, these locations will be available for use within the other areas of the Taxes feature.

Tax Groups

If adding a new tax group:

1. At the Tax Groups Maintenance page, click **Add New** to create a new tax group.
2. Complete the fields as required, then click **Save**.

If editing an existing tax group:

1. At the Tax Groups Maintenance page, select a tax group from the list.
2. Edit the fields as required, then click **Save**.

The following **Tax Group** fields are available:

Field	Description
ID [REQUIRED]	Enter a unique identifier of a tax group. The ID cannot be changed in edit mode.
Name [REQUIRED]	Enter the name of the tax group.
Description	Enter a text description of the tax group.



Any Tax Groups created here will be "pending deployment"; however, these groups will be available for use within the other areas of the Taxes feature.

Tax Brackets

If adding a new tax bracket:

1. At the Tax Brackets Maintenance page, click **Add** to create a new tax bracket.
2. Complete the fields as required in step 3 below.

If editing an existing tax bracket:

1. At the Tax Brackets Maintenance page, select a tax bracket from the list.
2. Edit the fields as required in step 3 below.
3. Complete the following **Tax Bracket** fields:

Field	Description
Bracket ID [REQUIRED]	Enter a unique identifier of a tax bracket. The ID cannot be changed in edit mode.
Tax Breakpoint [REQUIRED]	Enter the tax breakpoint, up to 6 decimal places.
Tax Amount [REQUIRED]	Enter the tax amount, up to 6 decimal places.

4. Click **Add** to add the tax breakpoint and tax amount to the Tax Bracket.
Continue adding all tax breakpoints and tax amounts for the Tax Bracket, and click **Add** after each addition to add the values to the Tax Bracket. The entered values are sorted in ascending order based on the breakpoint as they are added.
5. Click **Save** to save the Tax Bracket.



Any Tax Brackets created here will be "pending deployment"; however, these brackets will be available for use within the other areas of the Taxes feature.

To delete a Tax Breakpoint and Tax Amount from the Tax Bracket:

Click the **Delete** link associated with the tax breakpoint and tax amount.

Tax Breakpoint	Tax Amount	
		Add
1.00	0.050000	Delete
1.50	0.060000	Delete
2.00	0.070000	Delete

Figure 6-23: Delete Link - Tax Breakpoint And Tax Amount

To delete a Tax Bracket:

1. With the Tax Bracket displayed, click **Delete**.

Tax Brackets

Bracket ID 1

Tax Breakpoint	Tax Amount	
		Add
1.00	0.050000	Delete
1.50	0.060000	Delete
2.00	0.070000	Delete

[Delete](#) [Save](#)

Figure 6-24: Delete Tax Bracket

2. When prompted, click **Yes** to confirm the deletion.

Tax Rates

After setting up the basic tax elements (see [“Tax Elements” on page 166](#)), perform the following steps to set up and manage tax rate rules and group rules.

1. Select Tax Rates at the Taxes page ([Figure 6-21 on page 165](#)), then enter/select a Tax Location and click **Next**.
2. Add a new tax rate, or edit an existing tax rate for the selected tax location:

If adding a new Tax Group Rule:

1. At the Tax Location Group Rules page, click **Add New** to create a new Tax Group Rule for the selected tax location.
2. Complete the fields as required, then click **Save**.

If editing an existing Tax Group Rule:

1. At the Tax Location Group Rules page, select a Tax Location Group Rule from the list.
2. Edit the fields as required, then click **Save**.

The following **Tax Group Rule** fields are available:

Field	Description
Tax Group [REQUIRED]	Select the ID assigned to the tax group. The ID cannot be changed in edit mode.
Name [REQUIRED]	Enter the name assigned to the tax group.
Tax Authority [REQUIRED]	Select the Tax Authority.
Tax Type [REQUIRED]	Select the Tax Type.
Transaction Level check box	Select this check box to use this group rule at the transaction level.
Compound Tax check box	Select this check box to compound this group rule. A compound tax is a special kind of tax that is calculated by applying it to a previously taxed item. The value of the compound tax is based on the sum of an item's price plus the tax that was previously applied to it.

If adding or editing a Tax Rate Rule:

1. At the Tax Location Group Rules page, click **Edit Rates**.
2. Do one of the following:
 - ☐ To create a new Tax Rate Rule, click **Add New**.
 - ☐ To edit an existing Tax Rate Rule, select it in the list.

3. Complete the following **Tax Rate Rules** fields:

Field	Description
Minimum Taxable Amt	Specify the starting value amount at which the tax rate rule is first applied if the tax rate rule is applied at different thresholds.
Maximum Taxable Amt	Specify the highest value amount at which the tax rate rule is applied if the tax rate rule is applied at different thresholds.
Tax Rate [REQUIRED]	Select the tax rate and enter the amount, percent, or select a tax bracket.
Effective Date	Enter the date on which the tax rate rule becomes operative.
Expiration Date	Enter the date on which the tax rate rule is no longer operative.
Breakpoint	Select the breakpoint from the list. This value determines if the tax rate rule is applied to the entire value of the transaction or only to a portion of it, if the rule has threshold values defined.



The Seq. Number determines the order in which a tax is applied in a transaction. The rule with sequence number "1" is first, "2" is second, and so on.

4. Click **Save**.

To delete a Tax Rate Rule:

1. Click the delete icon associated with the Tax Rate Rule.
2. When prompted, click **Yes** to confirm the deletion.

If adding or editing a Tax Rate Rule Override:

See ["If adding or editing a Tax Rate Rule:" on page 171](#). The process for Tax Rate Rule Overrides is the same as the process for Tax Rate Rules.

Communications

Use this feature to create and modify store messages and employee tasks.

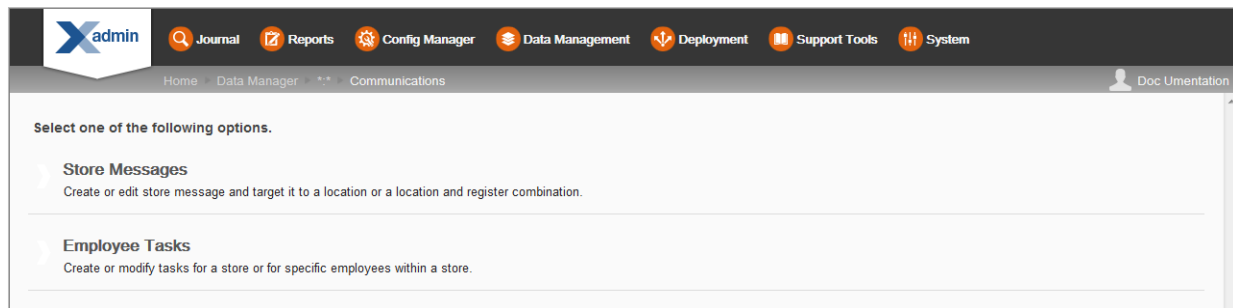


Figure 6-25: Communications Options Page

- ☐ To create or edit a store message and target it to a location, or a location and register combination, click **Store Messages**. See [Store Messages](#) below.
- ☐ To create or modify tasks for a store or for specific employees within a store, click **Employee Tasks**. See [“Employee Tasks” on page 175](#).

Store Messages

Use this feature to create or edit a store message and target it to a location, or a location and register combination.

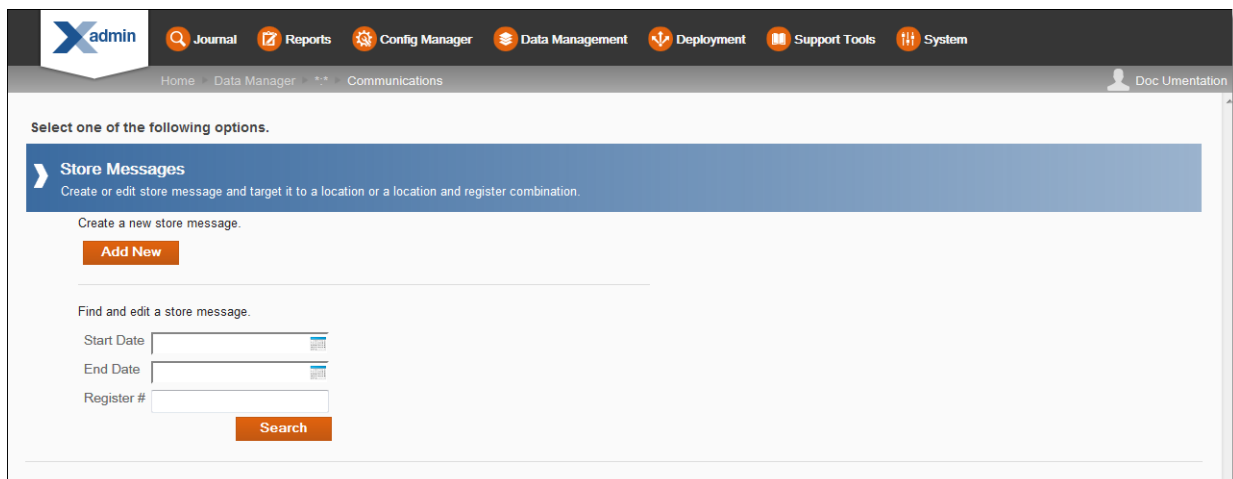


Figure 6-26: Store Messages Page

If adding a new message:

1. At the Store Messages page, click **Add New** to create a new message.
2. Complete the fields as required, then click **Save**.

If editing an existing message:

1. Enter search criteria and click **Search** to find/edit a store message in your organization. If you do not enter any criteria before selecting Search, all messages in your organization will be returned in the search.
2. To edit information for an existing message, select the row from the search results list and edit the information as needed. You also have the option here to create a new message by clicking **Add New** at the search results page.
3. Complete the fields as required, then click **Save**.



To delete an existing message, click the Delete  icon associated with the record at the search results list. When prompted, click **Yes** to confirm the deletion.

See [step 6 on page 137](#) for additional procedural information.

The following **Store Messages** fields are available.

Store messages attributes

Field	Description
Message Scope	Identifies the scope and number of stores that will be receiving this message. The message scope is the node selected for the Data Manager session and cannot be changed here.
Register Specific check box	Select this option if the message is targeted to a specific register and enter the register number in the Register # field when prompted. Note: If you select this option, the message displays on only the specified workstation. If you do not select this option, the message displays on all workstations.
URL check box	Select this option if there is a URL associated with this message and enter the URL when prompted. The hyperlink will display with the message in Xstore.
Priority [REQUIRED]	Select the message priority: High, Medium, Low.
Start Date [REQUIRED]	Enter the date the message is to be displayed.
End Date [REQUIRED]	Enter the date the message is no longer displayed.
Message [REQUIRED]	Enter the message text.

Employee Tasks

Use this feature to create or modify tasks for a store, or for specific employees within a store.

Figure 6-27: Employee Tasks Page

If adding a new employee task:

1. At the Employee Tasks page, click **Add New** to create a new employee task.
2. Complete the fields as required, then click **Save**.

If editing an existing employee task:

1. Enter search criteria and click **Search** to find/edit an existing employee task in your organization. If you do not enter any criteria before selecting Search, all employee tasks in your organization will be returned in the search.
2. To edit information for an existing employee task, select the row from the search results list and edit the information as needed. You also have the option here to create a new task by clicking **Add New** at the search results page.
3. Complete the fields as required, then click **Save**.



To delete an existing employee task, click the Delete  icon associated with the record at the search results list. When prompted, click **Yes** to confirm the deletion.

See [step 6 on page 137](#) for additional procedural information.

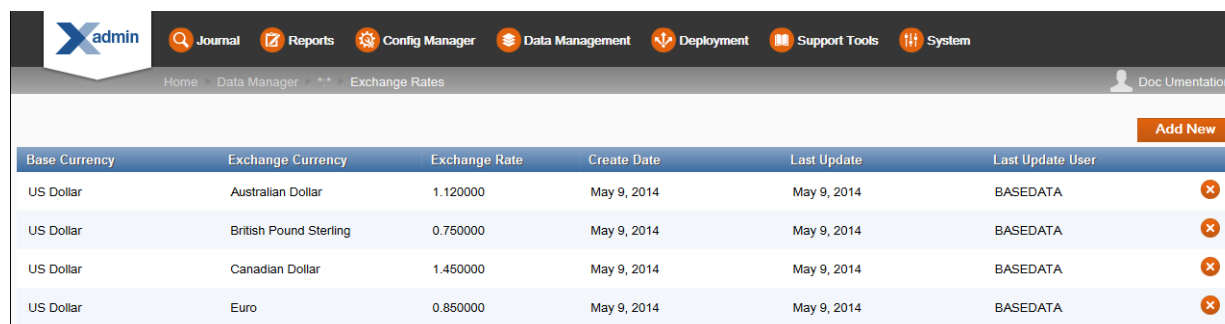
The following **Employee Tasks** fields are available.

Employee tasks attributes

Field	Description
Status	This field cannot be changed. Indicates the status of the task, Open or Completed.
Store # [REQUIRED]	Enter the store number. This value can only be edited in Add mode.
Task Title [REQUIRED]	Enter a short summary description of the task.
Priority [REQUIRED]	Select the task priority: High, Medium, Low.
Type [REQUIRED]	Select the type that best fits the task (General, Mailing, Display, Housekeeping, Receiving, Shipping, or Count).
Start Date [REQUIRED]	Enter the date the task should be started.
Due Date [REQUIRED]	Enter the date the task should be completed.
Visibility [REQUIRED]	Select who can view this task: Store , Employee Group , or Employee .
Assignee	If the visibility selection is Employee Group or Employee, select the target assignee from the drop-down list. [REQUIRED] Note: The visibility field determines the drop-down list for the Assignee field. If you select Store for visibility this field will not be available.
Description [REQUIRED]	Enter a detailed description of the task.

Exchange Rates

Use this feature to create and modify currency exchange rates for your organization.



Base Currency	Exchange Currency	Exchange Rate	Create Date	Last Update	Last Update User	
US Dollar	Australian Dollar	1.120000	May 9, 2014	May 9, 2014	BASEDATA	X
US Dollar	British Pound Sterling	0.750000	May 9, 2014	May 9, 2014	BASEDATA	X
US Dollar	Canadian Dollar	1.450000	May 9, 2014	May 9, 2014	BASEDATA	X
US Dollar	Euro	0.850000	May 9, 2014	May 9, 2014	BASEDATA	X

Figure 6-28: Exchange Rates Maintenance Page

If adding a new currency exchange rate record:

1. At the Exchange Rates maintenance page, click **Add New**.
2. Enter information required to create a new currency exchange rate record.
3. Click **Save**.

If editing an existing currency exchange rate record:

1. Select the record from the list to open the Edit window.
2. Make your changes, then click **Save**.

Figure 6-29: Exchange Rate Maintenance Edit Window




To delete a currency exchange rate record, click the Delete  icon associated with the record. When prompted, click **Yes** to confirm the deletion.

The following **Currency Exchange Rates** fields are available:

Currency exchange rate attributes

Field	Description
Base Currency	Select the local/home currency. This value can only be edited in Add mode.
Exchange Currency	Select the non-local currency used in the exchange of tenders. This value can only be edited in Add mode.
Exchange Rate	Enter the quantitative conversion factor between the base currency and the exchange currency.

Stores



This Data Manager **Stores** option allows you to search for and modify store information for an existing store only. To set up a new store, see ["Managing the Organization Hierarchy" on page 188](#).

Use this feature to search for and modify store information.

Figure 6-30: Stores Maintenance Page

To edit an existing store:

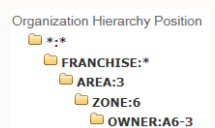
1. Find the store to be edited:
 - ☐ If you know the store ID, enter the store ID in the *Edit a Store Location* field at the Stores Maintenance page.
 - ☐ To search for a store, enter search criteria and click **Search** to find/edit an existing store in your organization. If you do not enter any criteria before selecting Search, all stores in your organization will be returned in the search. To edit information for an existing store, select the row from the search results list.
 2. Click **Edit** at the Store Information screen.
 3. Complete the fields as required, then click **Save**.
- See [step 6 on page 137](#) for additional procedural information.

The following **Stores** fields are available:

Store location attributes

Field	Description
Store #	The store identifier. This value cannot be changed.
Store Name [REQUIRED]	Edit the store name.
Alternate Store #	Enter the Shop ID (alternate store number) assigned to a store number as a reference to an outside/downstream integration.
Airport Zone	Select the Zone ID assigned to a store number as a reference to calculate the TAX_FREE, TAX_NORMAL, and PRICE_SPECIAL amounts for transactions in an Airside location. Valid values are derived from data from the <code>com_airport_zone</code> table in the Xcenter database.
Store Description check box	Select this option to enter a text description for the store. Type the description in the description field when prompted.
Address 1	Enter the first line of the mailing address.
Address 2	Enter the second line of the mailing address.
City	Enter the city component of the mailing address.
State	Enter the State/Province component of the mailing address.
Postal Code	Enter the Postal or ZIP code component of the mailing address.
Country	Enter/select the country component of the address.
Geographic Parameters check box	Select this option to enter the latitude and longitude values for this location.

Store detail attributes

Field	Description
Tax Location	Select the identifier of the tax location.
Currency	Select the base currency used in the store.
Locale	Select the base locale for the store.
Organization Hierarchy Position	View only. This shows the store's position in the organizational hierarchy. 

Registers/Tills attributes

Field	Description
Deposit Bank Name	Enter the deposit bank name to be printed when franking. The default value here is from Xadmin System Settings.
Deposit Bank Account Number	Enter the deposit bank account number to be printed when franking. The default value here is from Xadmin System Settings.
Number of Registers in the Store	Enter the number of registers in the store.
Use Till Accountability check box	IMPORTANT! If this setting is changed, you must deploy the changes at the end of the day, during the store close. Downloading this change during the day, while the store is open, will cause problems in Xstore. This setting determines whether the store uses Till Accountability mode or Register mode. Select the check box to use Till Accountability mode. The default value here is from Xadmin System Settings.

Registers/Tills attributes (continued)

Field	Description
Default Float Amount check box	In Register Mode: ■ If the default float amount is the same for every register/till (☒ selected), enter the default float amount that applies to all registers/tills. ■ If the default float amount is not the same for every register/till (☐ not selected), enter an amount for the till and click Add. Repeat this step for all registers/tills in the store. A Delete option is available if you need to make a change. Note: In Register Mode, the number of tills cannot be greater than the number of registers. In Till Accountability Mode: ■ If the default float amount is the same for every till (☒ selected), enter the default float amount that applies to all tills, then enter the number of tills used in the store. ■ If the default float amount is not the same for every till (☐ not selected), enter an amount for the till and click Add. Repeat this step for all registers/tills in the store. A Delete option is available if you need to make a change. Note: The store bank float amount is auto-calculated as the sum of all till float amounts.

Store contact attributes

Field	Description
Store Manager	Enter the store manager's name.
Telephone 1 through 4	Enter the telephone numbers for the store. Telephone 1 is the primary telephone number for the store.
Store Email	Enter the store's email address.

Viewing & Deploying the Data Changes

Data Manager changes are collected into “data bundles” containing all of the changes made within a particular org level during a given day. The changes collected in the data bundle will be deployed to their targeted stores automatically at the end of the day (as configured), or can be deployed immediately using the **Pending Modifications** option described here if needed.



Any changes made after the configured time of day will collect and deploy during the next day (and the next configured time) unless the change(s) are deployed manually.

Click **Pending Modifications** at the Data Manager page to view and/or deploy data changes.

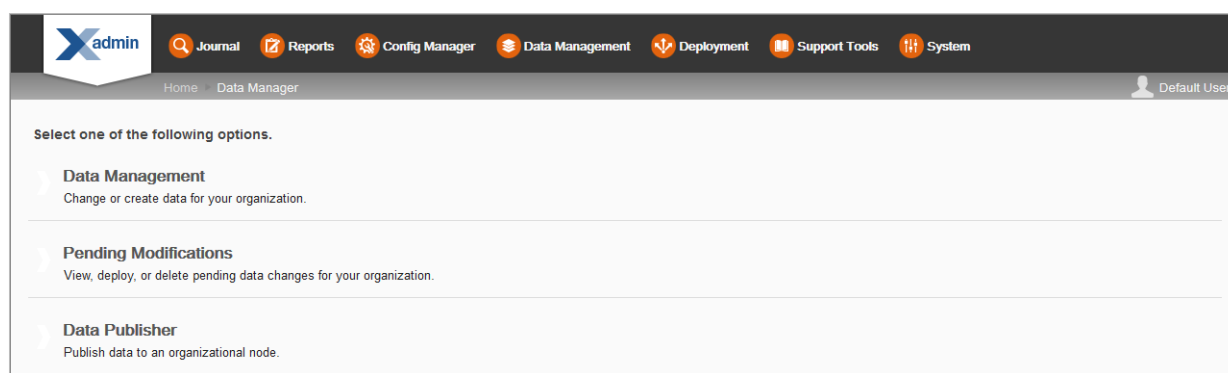


Figure 6-31: Data Manager Page

The Pending Modifications page shows the data bundles within the logged on user's org hierarchy level that have not been deployed. There is one row per target.

Target	Last Edited	Last Edited User	# of Changes	Deploy
**	May 13, 2014 12:00:00 AM	174174	2	
FRANCHISE:*	May 13, 2014 12:00:00 AM	174174	1	

Figure 6-32: Pending Modifications Page

Options at the Pending Modifications page include the ability to view, deploy, or delete the changes as a whole (data bundle) including all the individual data changes that they contain.



To delete only an individual data change or changes within a data bundle, see ["Viewing the Individual Changes in the Data Bundle" on page 184](#).



If you choose to deploy the changes here, the deployment will happen immediately. Once deployed, it is no longer possible to view or edit the data changes, (i.e. the group of changes will not be available to be deployed again). If an error was deployed, you must create a new data change and deploy it to fix the error.

Any deployments manually initiated from the Pending Modifications page will be shown on the Deployments page. See [Chapter 7, "Deployment Manager" on page 198](#) for more information.

The following information is shown on the Pending Modifications page:

Field	Description
Target	The org node targeted for the data bundle
Last Edited	The date the data bundle was most-recently edited.
Last Edited User	The user who last edited the data bundle.
# of Changes	The number of individual changes in this data bundle for the targeted org node.
 Deploy Icon	To deploy the Data changes as a whole (data bundle), click the Deploy icon  associated with the row in the search results list. When prompted, click Yes to confirm you want to deploy the selected Data change. Click OK at the deployment scheduled successfully prompt and the row is removed from the pending modification list.
 Delete Icon	To delete the Data changes as a whole (data bundle), click the Delete icon  associated with the row in the search results list. When prompted, click Yes to confirm you want to delete the selected Data change and the row is removed from the pending modification list.

Viewing the Individual Changes in the Data Bundle

To view the individual changes in the data bundle, click the row in the search results list at the Pending Modifications page (Figure 6-32). The Pending Modifications Detail page lists the individual data changes that have been made within the selected group of undeployed data changes. Options here include the ability to view or delete the individual changes.

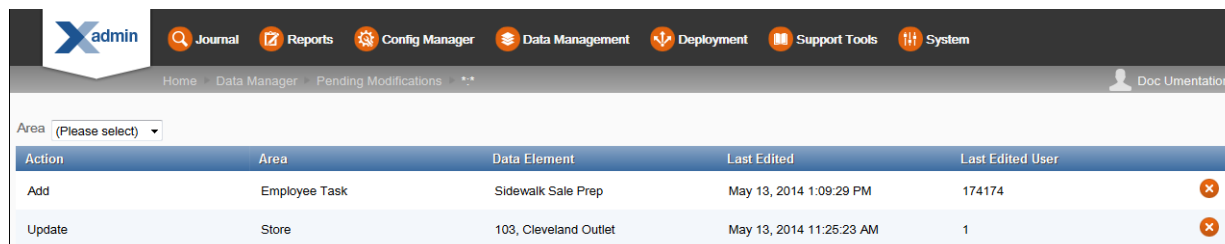
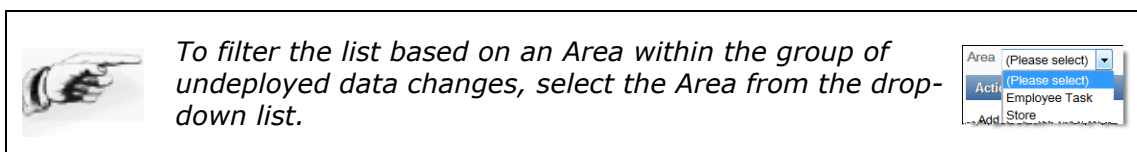


Figure 6-33: Pending Modifications Detail Page



Field	Description
Action	The action that will be taken when sent to Xstore; Add, Update, or Delete.
Area	The type of data manager change.
Data Element	A description of the data manager change.
Last Edited	The date the modification was most-recently edited.
Last Edited User	The user who last edited the modification.
 Delete Icon	To delete the individual Data change within the data bundle, click the Delete icon  associated with the row. When prompted, click Yes to confirm you want to delete the selected Data change and the row is removed from the data bundle.

Data Publisher - Redeploying Data

This feature provides the ability to deploy data from Xcenter to an org node so that all data within the selected org node's scope is transferred to the selected org node.

For example, when opening a new store, use this feature to send Xcenter data to the new store.

Valid data for redeployment includes: Items, Exchange Rates, Store Messages, Taxes, Employees, and Vendors.



Tasks and Stores data cannot be redeployed.

Data intended for the selected node will be deployed as follows:

- ❑ A transfer to a single store may require data from a store-level, district-level, and corporate-level. In this example, all of this data will be included in the deployment.
- ❑ A transfer to a region or district may result in multiple deployments to accommodate the multiple stores within the node. For example, if transferring to a district, the district may contain a total of 10 stores, and the stores may all receive different data which will result in 10 deployments.

To Transfer Data

1. From the Xadmin menu, select **Data Management** --> *Data Manager*, or click the [Data Manager](#) link in the **Data Management** panel.
2. Click **Data Publisher**.
3. Select the **Target Organization Node**, then click **Next**.



Only the Organization Nodes the logged-in user has privileges to use will be listed here.

4. At the Publish Data page, select the types of data to be transferred from Xcenter to the targeted org node:

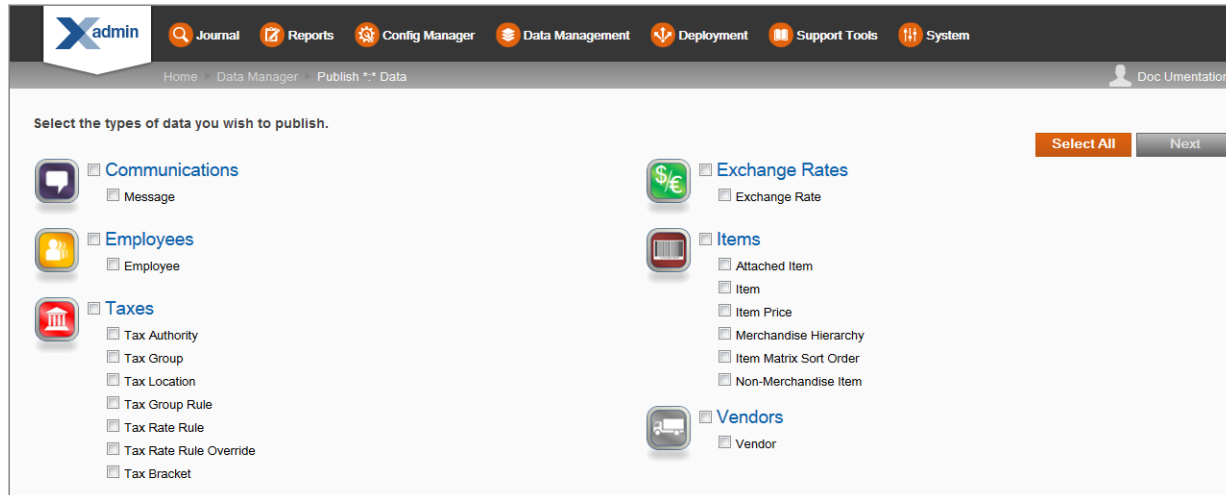


Figure 6-34: Publish Data Page

- ☐ To transfer all data listed here to the targeted org node, click the **Select All** button.



*When all categories are selected, the button toggles to "Select None".
If selected, all check marks will be removed.*

- ☐ To transfer all data in a category, select the check box next to the category name.
- ☐ To transfer specific data within a category, select the check box next to the data item.

5. Click **Next**.

6. At the Target Node Information window, review your changes and select a download priority option — *Immediate* or *Store Close* — from the drop-down list.

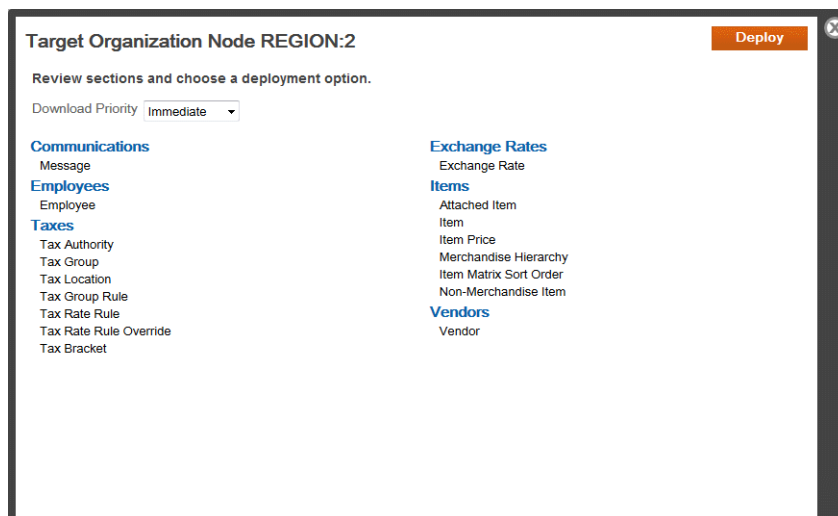


Figure 6-35: Target Node Information Window

7. Click **Deploy**.
8. When prompted that the deployment was scheduled successfully, click **OK** to close the window.



About Deployment

If the deployment of data should fail for one (or more) nodes within the target, the entire deployment will not fail. In this case, the progress bar turns red, indicating an error. At the end of the transfer, a failure count is shown above the progress bar (i.e., 5/250), and you can click a provided link to see more information at the "View Deployments" page.

Managing the Organization Hierarchy

Organization Hierarchy management includes both defining the hierarchy levels in your organization, as well as organizing and maintaining the nodes in the hierarchy.

1. From the Xadmin menu, select **Data Management** --> *Organization Hierarchy*, or click the [Organization Hierarchy](#) link in the **Data Management** panel.
2. At the Organization Hierarchy page, you have the following options:

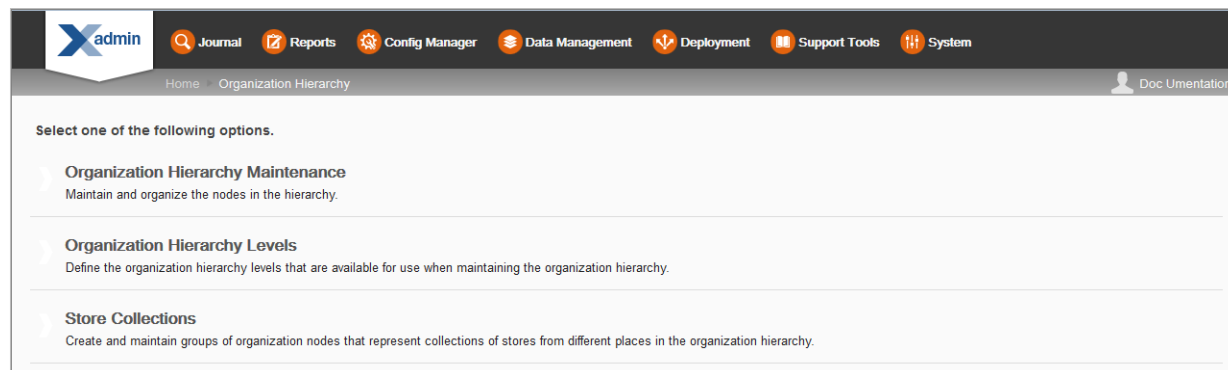


Figure 6-36: Organization Hierarchy Page

- ❑ To define organization hierarchy levels, click **Organization Hierarchy Levels**. Refer to [Defining Organization Hierarchy Levels](#) below for procedural information.
- ❑ To maintain and organize the nodes in the hierarchy, click **Organization Hierarchy Maintenance**. Refer to [“Maintaining the Organization Hierarchy” on page 190](#) for procedural information.
- ❑ To create and maintain store collections, click **Store Collections**. Refer to [“Creating and Maintaining Store Collections” on page 195](#)

Defining Organization Hierarchy Levels

Use this feature to define the Organization Hierarchy levels in your organization. Once set up, these levels will be available for use in Organization Hierarchy Maintenance.

The Parent (root) Level field cannot be edited, and only one root level (*) is allowed.

STORE is the lowest hierarchy level. You cannot add a level order lower than STORE level.



STORE is a reserved word within organization hierarchy maintenance and cannot be added as an organization level.

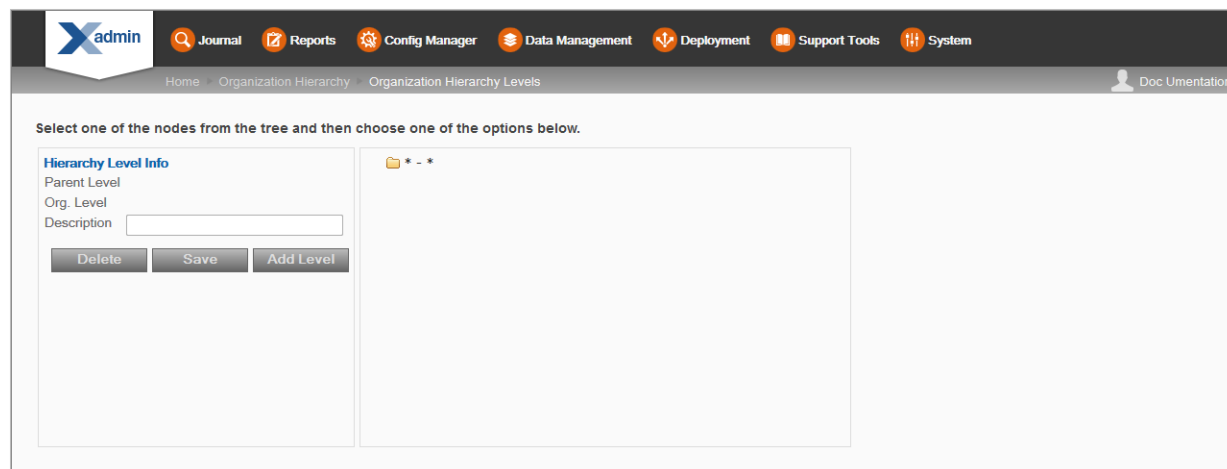


Figure 6-37: Organization Hierarchy Levels Page

To Add an Organization Hierarchy Level

1. Select an org node within the org hierarchy tree.
2. With the node selected, click **Add Level** to add an org level to the selected node.
3. Complete the fields as required and click **Save**.

Field	Description
Parent Level	Defaults to the currently selected node and cannot be changed.
Org Level [REQUIRED]	Enter the name of the new org level.
Description	Enter a description for the new org level.

To Edit the Description of an Organization Hierarchy Level

1. Select an org node within the org hierarchy tree.
2. With the node selected, enter the description in the **Description** field.

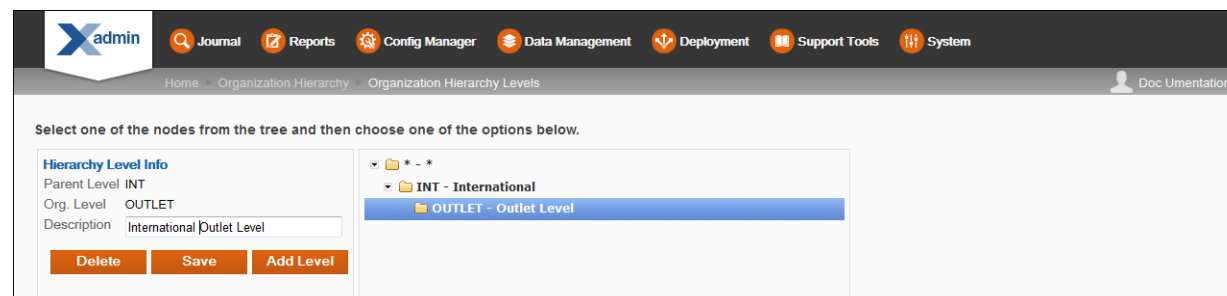


Figure 6-38: Organization Hierarchy Levels Page - Edit Description

3. Click **Save**. The tree view description is updated with the new description.

To Delete an Organization Hierarchy Level

1. Select an org node within the org hierarchy tree.
2. With the node selected, click **Delete**.



Levels that are currently being used, i.e., levels with children, cannot be deleted.

You cannot delete this hierarchy level. It has child hierarchy levels assigned to it.

OK

3. When prompted, click **Yes** to confirm you want to delete the selected hierarchy level.

Maintaining the Organization Hierarchy

The **Organization Hierarchy Maintenance** feature provides the ability to add an organization hierarchy level to a node, create a new store and add it to an org node, add an existing, unassigned store to an org node, temporarily deactivate an org node, and deploy the changes.

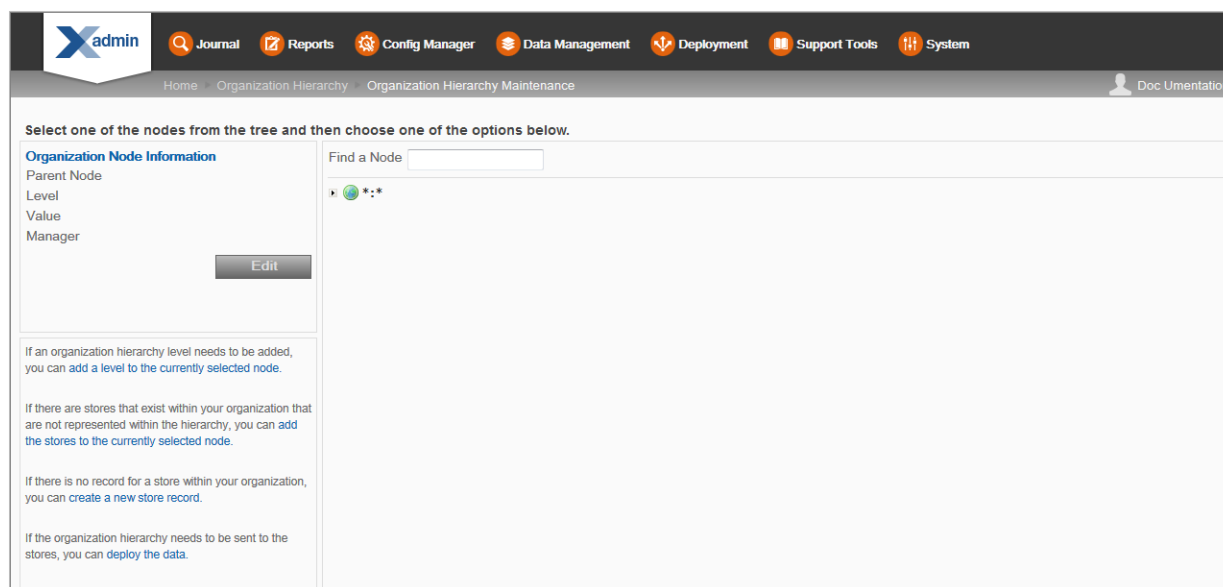


Figure 6-39: Organization Hierarchy Maintenance Page



*To search for a specific node, begin typing the node description in the **Find a Node** field.*

then choose one of the options below.

Find a Node

REGION:1

REGION:2

To Add an Organization Hierarchy Level to a Node



Organization Hierarchy levels must be defined before they can be used in Organization Hierarchy Maintenance. See ["Defining Organization Hierarchy Levels" on page 188](#) for more information about setting up Organization Hierarchy levels for your organization.

Perform the following steps to add an organization hierarchy level to a node.

1. From the Organization Hierarchy Maintenance page, select an org node within the org hierarchy tree.
2. With the node selected, click the [add a level to the currently selected node](#) link.
3. Complete the fields as required:

Figure 6-40: Add Hierarchy Level Node Window

Field	Description
Parent Node	Defaults to the currently selected node.
Level [REQUIRED]	Select the new level from the drop-down list. <i>Organization Hierarchy levels must be defined before they can be used in Organization Hierarchy Maintenance. See "Defining Organization Hierarchy Levels" on page 188 for more information about setting up Organization Hierarchy levels for your organization.</i>
Value [REQUIRED]	Enter a value for the new level.
Manager	Enter the manager for the new level. This is a "level manager" or an org node manager (e.g. district manager). The value is stored in the org hierarchy table along with the node info.
Active Node check box	Selected by default, indicating the organization hierarchy level is active and available. To deactivate the org node, de-select the Is this node active? check box. Refer to "To Deactivate an Org Node" on page 193 for more information.

4. Click **Save**.

To Edit the Value and Manager Information

Perform the following steps to edit an organization hierarchy level value and/or manager.

1. Select an org node within the org hierarchy tree.
2. With the node selected, click **Edit**.
3. Make changes to the level **Value** and/or **Manager** as needed.
4. Click **Save**.



To deactivate the org node, de-select the **Is this node active?** check box. Refer to ["To Deactivate an Org Node" on page 193](#) for more information.

To Add Unassigned Stores to an Org Node

Perform the following steps to add any **unassigned** stores to the organization hierarchy. This process does not create new stores, it is used to add existing stores to the Organization Hierarchy tree.

1. Select an org node within the org hierarchy tree.
2. With the node selected, click the [add the stores to the currently selected node](#) link to display a list of all unassigned stores.
3. Select the check box for one (or more) stores from the list, then click **Add** to add the selected stores to the selected org node.
4. The stores are added to the selected org node and the system returns to the Organization Hierarchy Maintenance page.

To Create a New Store and Add It to an Org Node

Perform the following steps to create a **new store** and place it within the organization hierarchy. This process is not used to add *existing* stores to an org hierarchy node.

1. Select the node where the new store will be placed.
2. With the node selected, click the [create a new store record](#) link.
3. Complete the required fields in the Store wizard, then click **Save**.
This is the same wizard used to edit stores within Data Manager; see ["Stores" on page 178](#) for detailed information about the fields.
4. When prompted, click **OK** to close the "Store created successfully" prompt. A deployment of this record to all stores will now be scheduled.
5. When prompted, click **OK** to close the "Deployment was scheduled successfully" prompt.
6. The system returns to the Organization Hierarchy Maintenance page. The new store is added to the selected org node.

To Deactivate an Org Node

Perform the following steps to **deactivate** an org node. Deactivated org nodes will not appear in drop-down pick lists throughout Xadmin. Making an org node inactive does not stop the stores within that node from functioning. This inactive setting simply prevents users from making data changes and deployments to the node. For example, this feature may be used when creating new districts or reorganizing the hierarchy. Deactivating an org node ensures that other users cannot make data changes or deployments to the stores that fall within that node.

Perform the following steps to deactivate an org node.

1. Select an org node within the org hierarchy tree.
2. With the node selected, click **Edit**.
3. Deselect the **Is this node active?** check box.
4. Click **Save**.
5. The org node information shows the node is Inactive and the org node is grayed-out in the tree view.

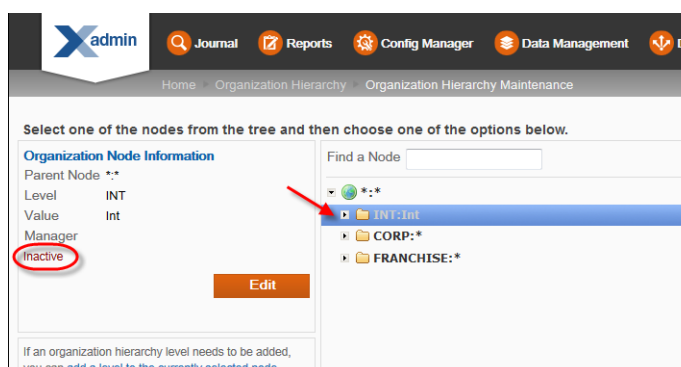


Figure 6-41: Inactive Org Node Example



To activate an inactive org node, select the **Is this node active?** check box.

To Move an Org Node

Perform the following steps to move org nodes throughout the org hierarchy. For example, this feature can be used if redistricting actions are needed within the organization. This type of movement may be as simple as: Move STORE:101 from DISTRICT:2 to DISTRICT:3, or it may be more complicated and involve multiple moves. In either case, the process is the same.

1. Select an org node (other than the root node) within the org hierarchy tree.
2. With the node selected, click **Edit**.
3. To change the selected node's parent level, begin typing the node identifier in the Parent Node field. The suggested parent nodes are displayed in a list.

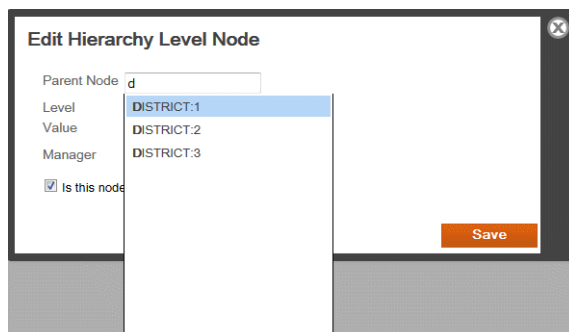


Figure 6-42: Parent Node Suggestion List

4. Select the new parent level, then click **Save**.

The previously selected node is now shown under its new parent level.

To Deploy the Organization Hierarchy Changes

Perform the following steps to deploy the organization hierarchy data to the stores.

1. Click the [deploy the data](#) link.
2. When prompted, click **Yes** to deploy the organization hierarchy to all stores.
3. Click **OK** to close the deployment successful window.

Creating and Maintaining Store Collections

Use Store Collections to create and maintain groups of organization nodes that represent collections of stores from different places in the organization hierarchy.

Store Collections are user-defined store groups. Once defined and set up, these Store Collections are made available to be used as target areas for configuration and data changes.

The Store Collections page shows your current Store Collections and the number of stores in each collection. In the example below, two store collections have been defined. If no collections have been defined this page will be blank. Click a column header to sort the column as needed.

ID	Description	# of Stores
NT	Northern Tier	9
ST	Southern Tier	12

Figure 6-43: Store Collections Page

To Add a Store Collection

1. At the Store Collections page, click **Add New** to create a new store collection.
2. Complete the fields as required:
 - ☐ **ID** - Enter the collection identifier. This field can only be edited when adding a new Store Collection. A store collection ID must be letters or numbers only and cannot include a colon (:), underscore (_), or comma (,) in the name.
 - ☐ **Description** - Enter the collection description. This field can be changed when adding a new Store Collection, and when editing an existing Store Collection.
 - ☐ **Organization Nodes** - Specify the node belonging to this store collection, then click **Add**. Repeat this step for each node that is part of this collection.
3. Click **Save**.
4. Xadmin returns to the Store Collections page.

To Edit a Store Collection

1. At the Store Collections page, select a Store Collection from the list.



*To delete a store collection, at the Store Collections page (Figure 6-43), select the Delete icon  associated with the Store collection. When prompted, click **Yes** to confirm the deletion.*

2. Complete the fields as required:
 - ☐ **ID** - This field cannot be changed.
 - ☐ **Description** - Edit the collection description.
 - ☐ **Organization Nodes**
 - To add a node, specify the node belonging to this store collection, then click **Add**. Repeat this step for each node to be added to this collection.
 - To remove a node from the collection, click the Delete link associated with the node.
3. Click **Save**.
4. Xadmin returns to the Store Collections page.

Stock Valuation Year End Roll-up

The end-of-year process is used to post the required rollup data for stock valuation for all items and stores. This closes the item's quantity and value for the specified fiscal year. The consolidated inventory totals are used for the stock valuation (PWAC) reports.



The `inv_cst_item YEAREND` table must be populated with data for the previous year. For new retailers with no previous years' data, a record must be added for the previous year with quantity zero (0).

Overview

Stock Valuation is a process that allows you to track the item stock value for receivables at the store for both corporate-created receiving documents and store-created receiving documents. This inventory valuation allows you to determine a monetary value for items that make up your inventory, and is dependent on a "year-end" process for the company. Stock valuation is based on the fiscal calendar.

All receiving documents must contain the items' cost to be used to calculate the stock valuation. The cost is the amount charged to the franchisee/store. When merchandise is received from the warehouse, the cost on the ASN/receiving document must be accepted or adjusted by the store in order to receive merchandise into inventory.

End-Of-Year Processing

To access Stock Valuation Year End Roll-up, select *Roll-up Stock Valuation* from the **Data Management** menu.

Perform the following steps to post the required rollup data for stock valuation for all items and stores.

1. Enter the Fiscal year that is being closed.
2. Click **Roll-up Data**.

The system will perform the following validation checks on the Fiscal Year entered:

- ☐ Must be less than the current fiscal year.
- ☐ Cannot be greater than the last consolidated year + 1. (The sequence must be respected; if 2011 has been consolidated, you can only consolidate 2012.)
- ☐ Cannot be less than the last consolidated year. (If 2012 has been consolidated you cannot select 2010, but you can select 2012.)
- ☐ If there are no previous consolidations, the system can accept any value less than the current year. (In this case, if there are any documents in the database for the year before the selected year, all documents will be consolidated in the selected year.)

Example:

- ☐ Current year=2014
- ☐ Documents exist in the database for 2009, 2010, 2011, 2012, and 2013
- ☐ No consolidations have been done to date

If 2012 is selected as the closing year, the system will prompt to close previous years (2009, 2010, 2011) first before continuing.

Deployment Manager

Overview

Deployment Manager is used to upload files for deployment, create deployment plans for scheduling updates, and track the status of configuration and file deployments.

For additional technical information about Deployments, see [Appendix A: "About Deployments" on page 260](#).

The Deployment Process at a Glance

1. Xenvironment contacts Xcenter at a pre-defined interval, asking for any updates.
2. If updates are available, Xenvironment downloads the files specified by the manifest either immediately or at store close.
3. Xenvironment then applies the files per the instructions in the manifest either immediately or at store close.

About this Chapter

The **File Upload** feature provides the ability to upload files from your local PC into Xadmin so the files can be deployed to stores. A deployment is automatically scheduled based on the targeting information in the file header. Xstore software updates, standard DataLoader files (.dat, .mnt, .reo, .rep), Xstore .cip files, .zip files for JRE/JCE, .tar.gz files, and Xstore debit.txt files are supported for upload. See [Uploading Files](#) below.

The **View Deployments** feature provides both the ability to view detailed information about a deployment and the ability to cancel a deployment before it has been deployed if it meets the eligibility criteria. The current status of all deployments made from Xadmin can be tracked down to the store level. You can view summary level data for each deployment, down to the status of delivering and loading each update at each target store. See ["Viewing Deployments" on page 213](#).

The **Deployment Plans** feature provides the ability to define phased Deployment Plans (i.e. templates) that can be used to schedule Configurator updates or File Uploads to save time when scheduling roll-outs. See ["Deployment: Using a Deployment Plan" on page 204](#).

The **Automatic External File Delivery** feature provides the ability to have any standard DataLoader files (.dat, .mnt, .reo, .rep) left by any external system in a file drop directory so the files can be deployed to stores. See ["Automatic External File Delivery" on page 224](#).

Uploading Files



Only the uploaded files that fall within the current user's org node are shown on the File Upload page. Files must have been uploaded by a user with the same, or lower, org node as the current user.

1. From the Xadmin menu, select **Deployment** --> *File Upload*, or click the [File Upload](#) link in the **Deployment Manager** panel.
2. At the File Upload page, click **Add File** to browse for the file you want to upload.

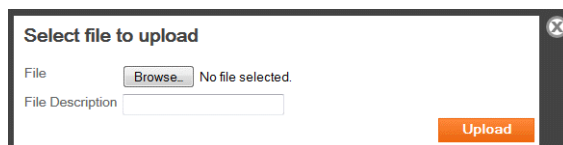
File Name	Description	File Size	Upload Date	User
☐ dtv-auth-impl.jar	I needed a file to test.	559KB	Apr 16, 2014	1
☐ dtv-auth-sv.jar	I needed a file to test.	154KB	Apr 18, 2014	1

Figure 7-1: File Upload Page



Only files with the following valid extensions can be uploaded: .cip, .jar, .mnt, .rep, .reo, .dat, debit.txt (bin file), .tar.gz, and .zip.

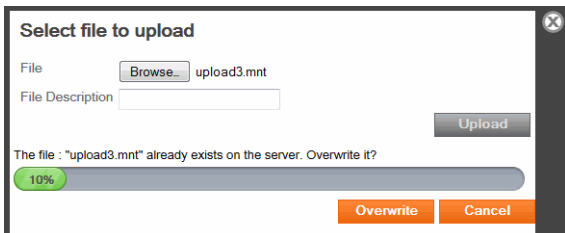
- When prompted, click **Browse** to search for the file.



- [OPTIONAL]** Type a description for the file.
- Click **Upload**. Uploaded file records are stored in the `cfg_upload_record` table.



If you try to upload a file that has been previously uploaded, you are prompted that this new upload will overwrite the previous one. Click **Overwrite** to overwrite the previous file or **Cancel** to return to the File Upload page without uploading the file.



- At the **Upload Successful** progress bar, choose whether to deploy the file now or deploy the file later:

File Name	Description	File Size	Upload Date	User
largefile1.jar		98.12MB	Apr 17, 2014	54815481
Quick_Items.mnt	quick items download	1.49KB	Apr 17, 2014	1
upload3.mnt		45B	Apr 17, 2014	174174

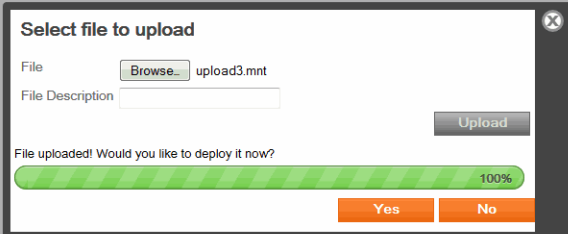


Figure 7-2: Upload Successful Progress Bar

- ☐ Click **Yes** to deploy the file now. Skip to [“File Upload: Deploying a File or Files” on page 201](#), step 3.
 - ☐ Click **No** to return to the File Upload page without deploying the file.
- Perform actions as needed:
 - ☐ To upload additional files, repeat steps 2 through 6.
 - ☐ To deploy an uploaded file, see [“File Upload: Deploying a File or Files” on page 201](#).
 - ☐ To remove a file from the Upload File list, see [“File Upload: Removing an Uploaded File From the List” on page 201](#).

File Upload: Removing an Uploaded File From the List

Follow the instructions in this section if you need to remove an uploaded file from the list.

1. At the File Upload page ([Figure 7-1 on page 199](#)), click the delete icon  to remove the selected file from the list.
2. At the confirmation prompt, click **Yes** to remove the selected file.

File Upload: Deploying a File or Files

Follow the instructions in this section to deploy a file or multiple files.

1. At the File Upload page, select the file, or files, you want to deploy.

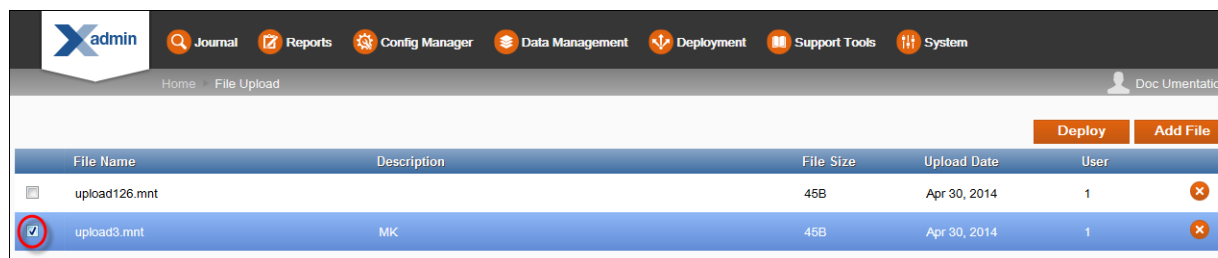


Figure 7-3: File Upload Page - File Selected

2. Click **Deploy**.
3. At the Schedule Deployment page, select a deployment option:

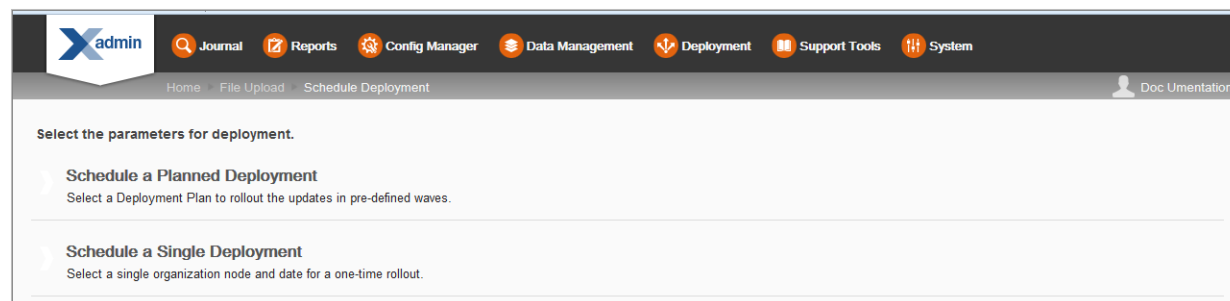


Figure 7-4: Schedule Deployment Page

- **Schedule a Planned Deployment** - Select this option to use a pre-defined Deployment Plan to roll out the updates in waves. Skip to ["Deployment: Using a Deployment Plan" on page 204](#).



This option assumes at least one **Deployment Plan** has been defined. See ["Creating a Deployment Plan" on page 206](#) for more information about setting up a Deployment Plan.

- **Schedule a Single Deployment** - Select this option for a one-time rollout to a single organization node and date. Continue with [Deployment: Using a Single Deployment](#).

Deployment: Using a Single Deployment

If you selected **Schedule a Single Deployment** in [step 3 on page 201](#), the Single Deployment section of the screen expands to show the required fields.

The screenshot shows the Xadmin web interface. The top navigation bar includes links for Journal, Reports, Config Manager, Data Management, Deployment, Support Tools, and System. The breadcrumb trail is Home > File Upload > Schedule Deployment. The main content area is titled 'Select the parameters for deployment.' and contains two sections: 'Schedule a Planned Deployment' and 'Schedule a Single Deployment'. The 'Schedule a Single Deployment' section is highlighted in blue and contains the following fields: 'Deployment Name' (text input with value 'upload3 Upload 2014-04-28'), 'Organization Node' (dropdown menu), 'Target Date' (calendar icon), and 'Download Priority' (dropdown menu with value '(Please select)'). A blue 'Next' button is located at the bottom right of the form.

Figure 7-5: Single Deployment Fields

4. Complete the following fields, then click **Next**. All fields are required.

Field	Description
Deployment Name	This field defaults to the file name and date it was uploaded. Accept this default or enter a name to identify this deployment.
Organization Node	Select the organization target for the configuration changes.
Target Date	Select the date the changes will be sent to the store.
Download Priority	Select the download priority to be specified in the manifest: ☐ Immediate - Download the files now. ☐ Store Close - Download the files at end-of-day.

5. Review the deployment information:

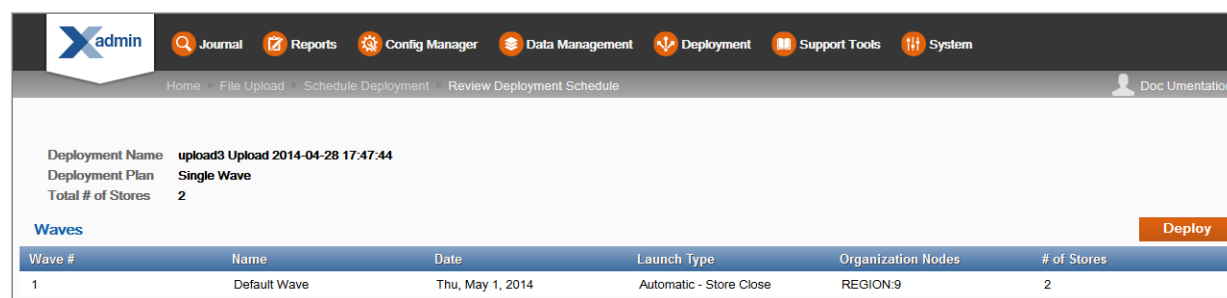


Figure 7-6: Single Wave: Review Deployment Schedule



Waves Section

For Single Deployments, the Wave Name defaults to **Default Wave** and the Launch Type defaults to **Automatic**. These values cannot be changed.

The following **Wave** information is shown on the Review Deployment Schedule page:

Field	Description
Wave #	The wave identifier.
Name	For Single Deployments, the Wave Name defaults to Default Wave and cannot be changed.
Date	The date the changes will be sent to the store.
Launch Type	The launch type, defaults to Automatic .
Organization Nodes	The targeted org node or nodes.
# of Stores	The number of stores affected by this single deployment.

- ☐ If all information is correct, go to step 6 below.
- ☐ If you need to change the launch date, select the wave and enter the new date at the Edit Wave window, then click **OK**.
- ☐ If you need to make any other changes, click the **Schedule Deployment** breadcrumb to return to the previous page where you can edit the information. Go to [step 4 on page 202](#).

6. Click **Deploy**.

7. When prompted, click **Yes** to confirm you want to schedule the deployment.

8. Click **OK** to close the Deployment Scheduler status bar window.

The deployment file is placed in the root directory of Apache Server with a file name of {org}_{deployment id}_!!_{filename} and a record is written to the dpl_deployment table.

See [“Viewing Deployments” on page 213](#) for more information about the deployed file.

Deployment: Using a Deployment Plan

Templates, known as "Deployment Plans", can be set up in advance and then reused whenever needed. These Deployment Plans are used to distribute changes to stores for configuration and file uploads. See ["Creating a Deployment Plan" on page 206](#).

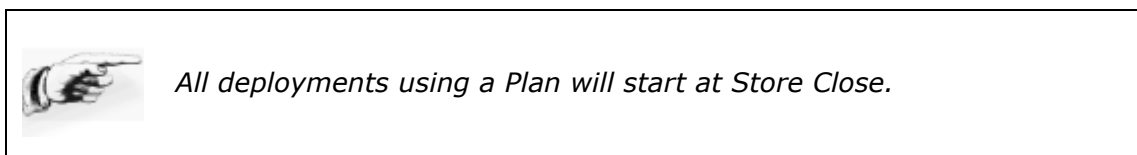
If you selected **Schedule a Planned Deployment** in ["File Upload: Deploying a File or Files" on page 201](#), the Deployment Plan section of the screen expands to show the required fields.

Figure 7-7: Planned Deployment Fields

1. Complete the following fields.

Field	Description
Deployment Name	This field defaults to the file name and date it was uploaded. Accept this default or enter a name to identify this deployment.
Deployment Plan	Select the deployment plan from the list.
Target Date	Select the date the changes will be sent to the store.

2. Click **Next**.



- Review the deployment schedule and Email Notification list, then click **Deploy**.

Deployment Name: upload3 Upload 2014-04-30 11:48:19
 Deployment Plan: MK
 Total # of Stores: 34

Email Notifications: 174174 [View List](#)

Waves

Wave #	Name	Date	Launch Type	Organization Nodes	# of Stores
1	Wave 1	Thu, May 1, 2014	Approval Required	REGION:1	13
2	Wave 2	Sun, May 4, 2014	Approval Required	REGION:2	5
3	Wave 3	Fri, May 9, 2014	Automatic	FRANCHISE:*	16

Deploy

Figure 7-8: Review Deployment Schedule Page

If you are not ready to deploy, use the breadcrumbs at the top of the page to navigate to a previous page.

- When prompted, click **Yes** to confirm you want to schedule the deployment.
- Click **OK** to close the Deployment Scheduler status bar window.

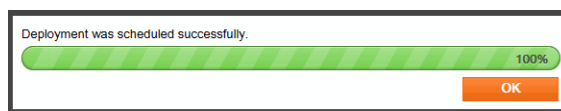


Figure 7-9: Deployment Scheduler Status Bar Window

See also: [“Viewing Deployments” on page 213](#) for more information about tracking the current status of all deployments.

Creating a Deployment Plan

Use a **Deployment Plan** to roll out updates on a pre-defined schedule when setting up a Configurator or File Upload deployment. Scheduled roll-outs are created by defining phased plans (i.e. templates) containing Waves. The plans created here will be available when you schedule a deployment. See [“Deployment: Using a Deployment Plan” on page 204](#).

1. From the Xadmin menu, select **Deployment** --> *Deployment Plans*, or click the [Deployment Plans](#) link in the **Deployment Manager** panel.
2. At the Deployment Plans page, click **Add New** to create a new Deployment Plan.

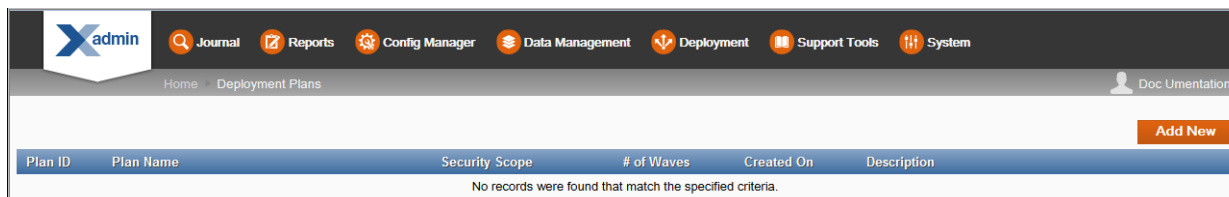


Figure 7-10: Deployment Plans Page

3. At the Create Deployment Plan page, complete the fields as required to identify this plan and to define the scope:

Figure 7-11: Create Deployment Plan Page

Field	Description
Plan Name	Enter a name for the plan, up to 60 characters.
Description	Enter a description for the plan, up to 255 characters. This name can be changed after the plan has been created and saved.
Security Scope	Select the target level (store or org node) for this plan. This value defaults to the highest level of the logged-on user. If a user has more than one hierarchy node assigned, there is no default.

Field	Description
Email Notifications	Review/edit the email addresses for emails to be sent for Wave Approval reminders and Wave Approval waiting notifications. See "Email Notifications" on page 211 for more information about this feature.

4. Click **Add New** ([Figure 7-11 on page 206](#)) to define the Waves for this plan at the Create Wave page:

Figure 7-12: Create Wave Page



To be valid, a Deployment Plan must have a minimum of one Wave. You can add any number of Waves to the Deployment Plan.

For global scope only, you can select the **All Remaining Stores** check box to quickly add all stores in the node that have not been included in any previous waves. This can be used to make sure there are no missing stores in the Deployment Plan.

Field	Description
Wave Name	Enter the Wave name or accept the default name. By default, each Wave is numbered automatically to track the number of waves in the plan. You can append additional text to the wave number (for example, <i>Wave 1: Reg1</i>) or change the text (for example, <i>First Wave - Reg1</i>), up to 60 characters.
Launch (day(s) after previous wave)	For Wave 1, this will default to NA since the first wave is the baseline date used to calculate all subsequent days. For Waves 2 and above, enter the interval between waves, up to 4 digits maximum. Note: Zero (0) is a valid entry for the number of days after the previous wave. This allows multiple waves to start on the same day, possibly with different launch types.

Field	Description
Launch Type	Approval Required [DEFAULT] - User approval is needed before the Wave launches. Automatic - The Wave launches automatically on the set number of days after the previous wave completes.

5. To specify which stores/nodes this Wave should deploy to:
 - a. Click **Add** Organization Nodes.
 - b. Expand the org hierarchy node tree as needed to select the stores/nodes for this Wave.

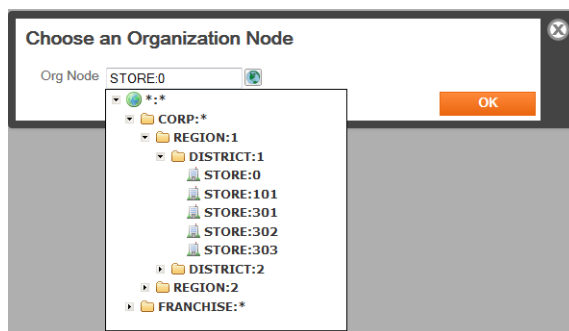


Figure 7-13: Org Hierarchy Node Tree



The nodes returned in this list are filtered based on the Scope you selected for the Plan. Store collections are not included in this list.

- c. Click **OK**.

The selected store/node is listed on the Create Wave page along with a [Delete](#) link. If needed, you can click [Delete](#) to remove the store/node from the Wave.

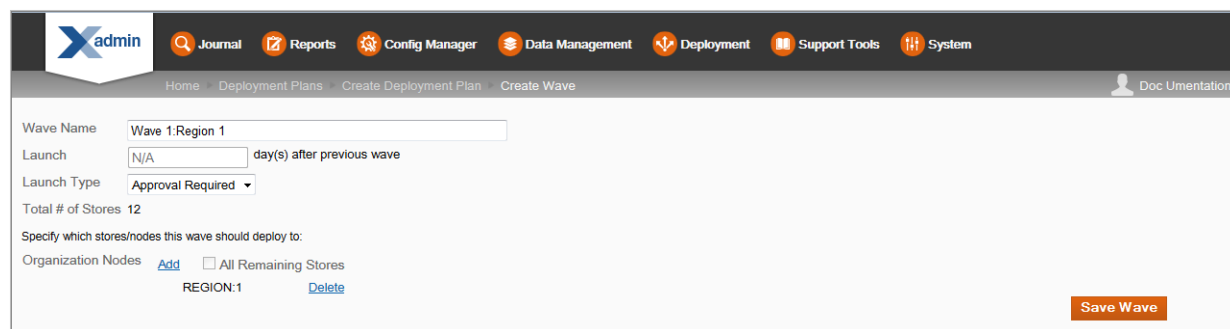
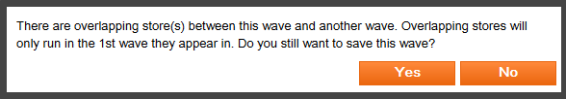


Figure 7-14: Wave 1 - First Store/Node Added Example

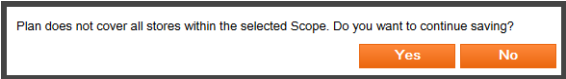
6. **[OPTIONAL]** Repeat step 5 to add additional stores/nodes to this Wave.
7. After adding all stores/nodes to this Wave, click **Save Wave**. The Wave is added to the Deployment Plan and you are returned to the Create Deployment Plan page.

Notes: About Wave Validation

- The same node cannot be selected in multiple Waves (for example, District 1 in Wave 1 and District 1 in Wave 2). If you try to add an org node in multiple Waves, this message displays. Click **OK** to close the message box and then click **Delete** to remove the duplicate Organization Node from the Wave.
- Overlap within a Wave or between Waves is not allowed. If you try to add overlapping stores/nodes between two waves, this message displays. Click **Yes** to continue. Click **No** to return to the Create Wave page and then click **Delete** to remove the duplicate store from the Wave.

8. **[OPTIONAL]** To create additional Waves for the Deployment Plan, return to [step 4 on page 207](#). Repeat as often as needed.
 - ☐ The next wave defaults to the next higher number, for example, Wave 2 follows Wave 1.
 - ☐ Enter the number of days this wave should be launched after the previous wave. For example, schedule Wave 2 to launch 7 days after Wave 1 is launched, and schedule Wave 3 to launch 5 days after Wave 2 is launched, and so on.
 - ☐ Select the launch type, Approval Required or Automatic.
9. When all Waves have been added to the Deployment Plan, click **Save Plan** to save all plan changes and return to the Deployment Plans page.

Notes: About Deployment Plan Validation

- If the Deployment Plan does not cover all stores within the selected scope, this message displays. Click **Yes** to save the plan even though not all stores in the selected scope are included. Click **No** to return to the Create Deployment Plan where you can make changes as needed.

10. The Deployment Plans page displays information about each plan.

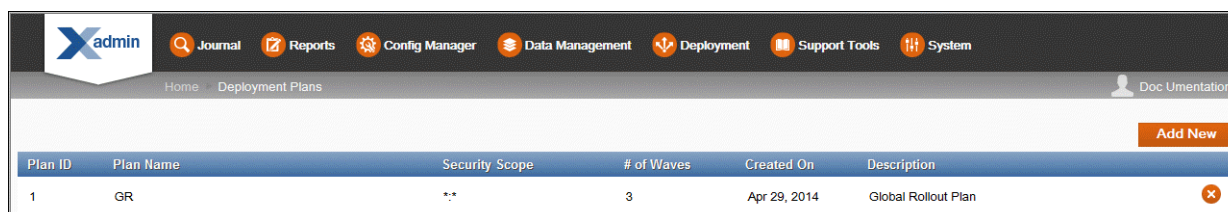


Figure 7-15: Deployment Plans Page

Header	Description
Plan ID	The auto-generated plan Identifier.
Plan Name	The name of the plan.
Security Scope	The target level (store or org node) for this plan.
# of Waves	The number of waves in the Deployment Plan.
Created On	The date the plan was created.
Description	The plan description.
Delete Icon 	See Deleting a Deployment Plan and Waves below.

Deleting a Deployment Plan and Waves

1. From the Xadmin menu, select **Deployment** --> *Deployment Plans*, or click the [Deployment Plans](#) link in the **Deployment Manager** panel.
2. At the Deployment Plans page (Figure 7-15), click the Delete icon  to delete a Plan.
3. When prompted, click **Yes** to delete the selected plan and all of its waves.

Deleting a Wave from a Plan

1. From the Xadmin menu, select **Deployment** --> *Deployment Plans*, or click the [Deployment Plans](#) link in the **Deployment Manager** panel.
2. At the Deployment Plans page (Figure 7-15), select a Deployment Plan from the list of plans.
3. With the Waves page displayed, click the Delete icon  to delete a selected Wave.
4. When prompted, click **Yes** to delete the selected wave.

Editing a Deployment Wave and Plan

Editing a Deployment Wave and Plan is similar to the process used to create a new Deployment Wave and Plan.

See [“Creating a Deployment Plan” on page 206](#) for more information about the fields on the Create Deployment Plan and Create Wave page.

1. From the Xadmin menu, select **Deployment** --> *Deployment Plans*, or click the [Deployment Plans](#) link in the **Deployment Manager** panel.
2. At the Deployment Plans page, select a plan from the list.
3. Edit the Wave information as needed:
 - a. Select a Wave from the list and edit the fields as needed.
 - b. To add a Wave, select **Add New** to add a new Wave to the Plan.



If all stores are covered in this plan, the Add New option will not be available.

- c. Click **Save Wave** to save your changes.
4. If needed, edit the Plan information.
 5. Click **Save Plan** to save all plan changes and return to the Deployment Plans page.

Email Notifications

Set up an email notification list for emails to be sent for Wave Approval reminders and Wave Approval waiting notifications. The **Approval Needed** email notification will be sent out a configurable number of days before the projected launch date of a wave that is launch type "Approval Required".

The number of days is set up in Xadmin Configuration (*Number of Days Before Deployment Wave to Send Notification*). See [“Xadmin Configuration Options” on page 27](#).

A **Wave On Hold** email notification will be sent out when the projected launch date has passed and a wave is still waiting to be approved.

The email includes a link that will direct the recipient to the Deployment Summary page for the deployment that needs approval. See [“Approval Needed Email Notification Example” on page 212](#) for a sample email message.

Perform the following steps to add and remove users from the Email Notification list of a Deployment Plan.

1. From the Xadmin menu, select **Deployment** --> *Deployment Plans*, or click the [Deployment Plans](#) link in the **Deployment Manager** panel.
2. At the Deployment Plans page, click **Add New** to create a new Deployment Plan or select a Deployment Plan from the list.
3. At the Create Deployment Plan page ([Figure 7-11 on page 206](#)), click the Email Notifications [Edit](#) link.

4. At the Email Notifications page, add or remove email information as needed:

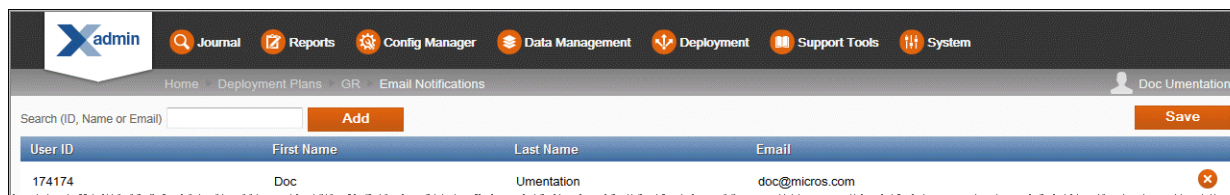


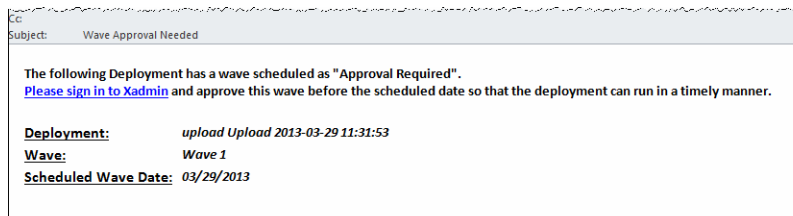
Figure 7-16: Email Notifications Page



Email addresses listed in the search results are set up in System-->Xadmin Users-->Users and Security Access. See ["Admin Users - Using Roles to Grant Access to Xadmin" on page 17](#) for more information.

- ☐ To add a new user email to the Deployment Plan:
 - 1) Enter search information (ID, Name or Email) in the Search field to find the user's email.
 - 2) Select the email from the list, then click **Add**.
 - ☐ To remove a user email from the Deployment Plan, click the Delete icon (✕) associated with the email you want to remove.
5. Click **Save**.
6. Click **Save Plan** to save changes to the plan.

Approval Needed Email Notification Example



Viewing Deployments

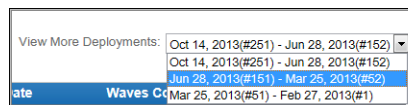
The current status of all deployments made from Xadmin can be tracked down to the store level. A drill-down style interface is provided to view summary level data for each deployment, down to the status of delivering and loading each update at each target store.

1. From the Xadmin menu, select **Deployment** --> *View Deployments*, or click the View Deployments link in the **Deployment Manager** panel.
2. At the Deployments page, enter criteria for the Deployment you are searching for and then click **Search**.

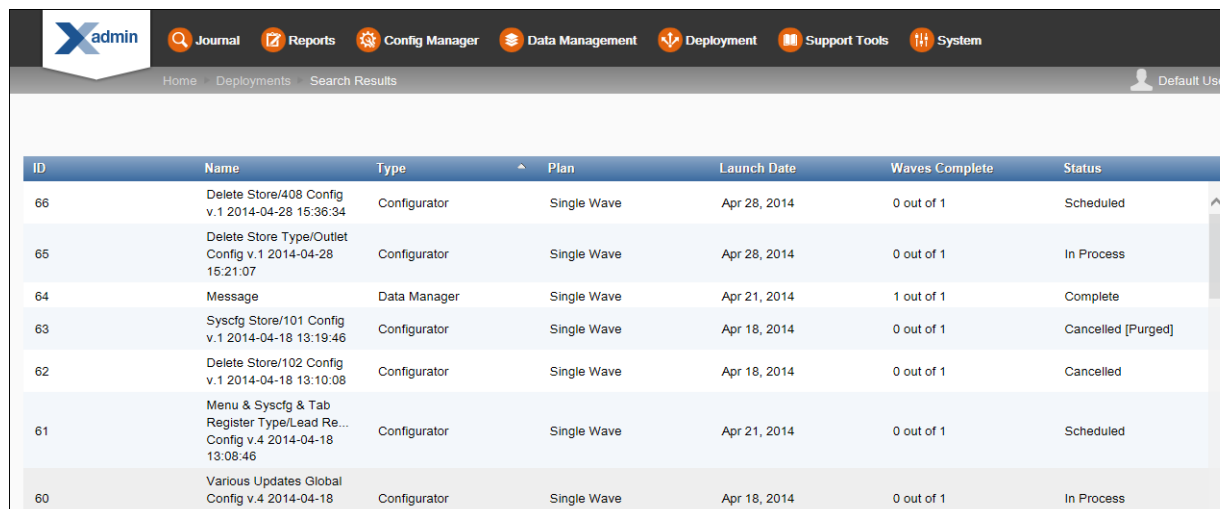


To return a list of all deployments, leave the fields blank and click **Search**.

To view additional deployments, select a date range from the **View More Deployments** drop-down list.



The Deployments page shows the summary list of deployments. By default, this list is sorted with the latest deployment shown at the top. Click on a field heading () to re-sort the list as needed.



ID	Name	Type	Plan	Launch Date	Waves Complete	Status
66	Delete Store/408 Config v.1 2014-04-28 15:36:34	Configurator	Single Wave	Apr 28, 2014	0 out of 1	Scheduled
65	Delete Store Type/Outlet Config v.1 2014-04-28 15:21:07	Configurator	Single Wave	Apr 28, 2014	0 out of 1	In Process
64	Message	Data Manager	Single Wave	Apr 21, 2014	1 out of 1	Complete
63	Syscfg Store/101 Config v.1 2014-04-18 13:19:46	Configurator	Single Wave	Apr 18, 2014	0 out of 1	Cancelled [Purged]
62	Delete Store/102 Config v.1 2014-04-18 13:10:08	Configurator	Single Wave	Apr 18, 2014	0 out of 1	Cancelled
61	Menu & Syscfg & Tab Register Type/Lead Re... Config v.4 2014-04-18 13:08:46	Configurator	Single Wave	Apr 21, 2014	0 out of 1	Scheduled
60	Various Updates Global Config v.4 2014-04-18	Configurator	Single Wave	Apr 18, 2014	0 out of 1	In Process

Figure 7-17: Deployments Page - Search Results



Deployment information is stored in the `dpl_deployment` database table.

The "v.x" designation in the deployment name indicates the config version for this set of configurations.

- ☐ **Deployment ID** - The auto-assigned deployment identifier.
- ☐ **Name** - The deployment name.
- ☐ **Type** - The deployment type; Configurator, Data Manager, File Upload, or Auto Deploy.

- ❑ **Plan** - The deployment plan name.
 - ❑ **Launch Date** - The deployment launch date.
 - ❑ **Waves Complete** - The number of waves completed compared to the total number scheduled.
 - ❑ **Status** - The deployment status; Approval Required, Complete, In Process, Cancelled, Scheduled, Error
3. Select a row in the Deployments page summary list (Figure 7-17) to view additional information about the selected deployment.
 4. The Deployment Summary page displays and shows the current status of the selected deployment as reported by all of the stores via Xenvironment.

The screenshot shows the Xadmin interface with the 'Deployment' tab selected. The 'Summary' section displays the following details:

- Deployment Plan: GR
- Status: Approval Required
- Stores Targeted: 32
- Manifests Downloaded: 0
- Security Scope: *.*
- Create Date: Apr 29, 2014 11:34:02 AM
- Create User Id: 174174

Buttons for 'Cancel Deployment' and 'Refresh' are visible. Below the summary, there is a 'View Details by Store' link. The 'Status' section shows a table with columns: Not Reported, Incomplete, Error, and Success. The 'Files' section lists 'configurator.zip' and 'Config'. The 'Waves' section contains a table with the following data:

Wave #	Name	Date	Launch Type	Approved?	# Stores Complete	Show Stores
1	Wave 1: Region 1	Thu, May 1, 2014	Approval Required	No	0/12	
2	Wave 2: Region 2	Sun, May 4, 2014	Approval Required	No	0/5	
3	Wave 3: Franchise	Sun, May 11, 2014	Approval Required	No	0/15	

Figure 7-18: Deployment Summary Page - Approval Required Example

The information shown here is a collection of aggregate counts for all of the possible deployment statuses; such as the number of stores that have downloaded the manifest, the number of stores that have downloaded the deployment's files (successfully or in error), and the number of stores that have applied the deployment's files (successfully or in error). If needed, click **Refresh** at any time to update the page and see current changes.

Perform the following functions as needed:

- **Approve Waves** - If approval is required before a Wave can begin, an authorized user must review and approve the Wave. See ["To Approve a Wave" on page 220](#).
- **View store details** - This page also provides a link to a per-store list of status data ([View Details By Store](#)). See ["To View Detail By Store" on page 217](#) for more information.

■ Stop or cancel a deployment

A **Stop Deployment** button on this page is available once the deployment is under way or as soon as the first wave's date is today. Stop Deployment will cancel the deployment before the next wave begins. See ["To Stop a Deployment" on page 222](#).

A **Cancel Deployment** button on this page is only available if you are viewing a deployment before the deployment has started. Once the deployment is under way it cannot be cancelled. See ["To Cancel a Deployment" on page 223](#) for more information about cancelling a deployment.

- **Purge Files** - If applicable, a [Purge Files](#) link is available to delete the files. See ["To Purge Files" on page 221](#).

About the Deployment Summary Page

Summary Information

Field	Comments
Deployment Plan	The name of the plan that used in this deployment, It will contain "Single Wave" if the Single Wave option was selected.
Status	The deployment status: Error, Complete, In process, Approval Required, Scheduled, Cancelled
Stores Targeted	The total number of stores targeted in all waves.
Manifests Downloaded	The number of stores that have downloaded the manifest. There will be one manifest per store.
Security Scope	The hierarchy node level of the deployment.
Create Date	The date the deployment was created.
Create User Id	The user who created this deployment.
Cancel Date	The date the deployment was cancelled. This field is only displayed if the deployment was stopped or cancelled. See "To Cancel a Deployment" on page 223 and "To Stop a Deployment" on page 222 .
Cancel User Id	The user who cancelled the deployment. This field is only displayed if the deployment was stopped or cancelled. See "To Cancel a Deployment" on page 223 and "To Stop a Deployment" on page 222 .
View Details By Store link	Opens a window showing a per-store list of status data. See "To View Detail By Store" on page 217 .

Status Section

Files Downloaded	
File Status Code	Comments
Not Reported	No status available yet.
Incomplete	Only occurs if multiple files are downloaded and the files currently have different statuses during the download process.
Error	File download errors.
Success	File download successful.
Files Applied	
File Status Code	Comments
Not Reported	No status available yet.
Incomplete	Only occurs if multiple files are downloaded and the files currently have different statuses during the application process.
Error	File application process has errors.
Success	Files applied successfully.

Files Section

File Category	File Type	Comments
Config	configurator.zip	The zip file contains the manifest and configuration information.
Compressed data	datamanager.zip	The zip file contains the manifest and data manager information.
Data	.mnt, .reo, .dat, .rep	The standard Dataloader files.
App update	updater.jar	The executable jar file contains software update information.
debit.txt	debit.txt	The debit bin file containing BIN range values for authorized card tenders.
CIP	.cip	Contains cipher keys information.
JRE/JCE	XST-jre-windows.zip XST-jce-windows.zip	Contains the JRE/JCE file types
Purge Files link	See "To Purge Files" on page 221 .	

Waves Section

Field	Comments
Wave #	The Wave number.
Name	The Wave name.
Date	The launch date.
Launch Type	The launch type; Approval Required or Automatic.
Approved?	For Automatic launch type, this does not apply. For Approval Required launch type, indicates whether or not the wave has been approved. See "To Approve a Wave" on page 220 for more information about approving a wave.
# Stores Complete	The number of complete stores.
Show Stores link	Click the  icon to view detailed information about the files downloaded and files applied to the targeted stores for the Wave.

To View Detail By Store

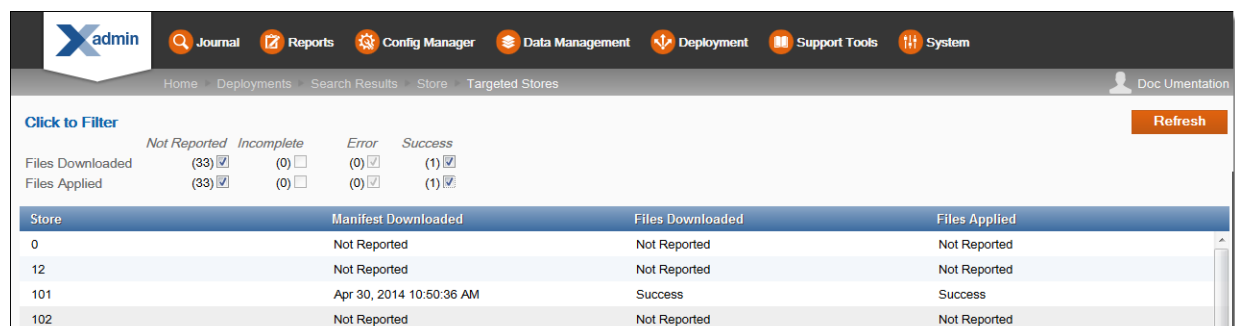
The Detail by Store page is accessed from the Deployment Summary page and displays a per-store list of status data.

1. To view store details, click the [View Details By Store](#) link in the Deployment Summary page ([Figure 7-18 on page 214](#)).



By default, the initial page filter is set to show any errors. Error (1) ☒ (0) ☒

Use the filter selections to filter the records based on the status code values. If a value of 0 (zero) is associated with a status, the option to enable or disable it is not available since there are no records to filter.



Store	Manifest Downloaded	Files Downloaded	Files Applied
0	Not Reported	Not Reported	Not Reported
12	Not Reported	Not Reported	Not Reported
101	Apr 30, 2014 10:50:36 AM	Success	Success
102	Not Reported	Not Reported	Not Reported

Figure 7-19: Detail by Store Page - Targeted Store Detail - Not Reported and Success Filters

These status codes show each individual store's deployment statuses and are an aggregation of all the statuses across all the files defined in the deployment.

- ❑ **Manifest Downloaded** - If the manifest was downloaded, the **date and time** will be shown in this column. If the manifest has not been downloaded, this column will show **Not Reported**.
- ❑ **Files Downloaded** - If the file(s) were downloaded successfully, **Success** will be shown in this column. If the file(s) were downloaded with an error, **Error** will be shown in this column. If the file(s) have not been downloaded, **Not Reported** will be shown in this column. If multiple files are currently being downloaded and the files have different statuses at this moment, **Incomplete** will be shown in this column.
- ❑ **Files Applied** - If the file(s) were applied successfully, **Success** will be shown in this column. If the file(s) were applied with an error, **Error** will be shown in this column. If the file(s) have not been applied, **Not Reported** will be shown in this column. If multiple files are currently being applied and the files have different statuses at this moment, **Incomplete** will be shown in this column.

Click to Filter				
	<i>Not Reported</i>	<i>Incomplete</i>	<i>Error</i>	<i>Success</i>
Files Downloaded	(33) ☐	(0) ☐	(2) ☒	(1) ☐
Files Applied	(35) ☐	(0) ☐	(0) ☒	(1) ☐

2. Use the filters to view data as needed.

3. Select a row in the list to view additional information about a specific store.

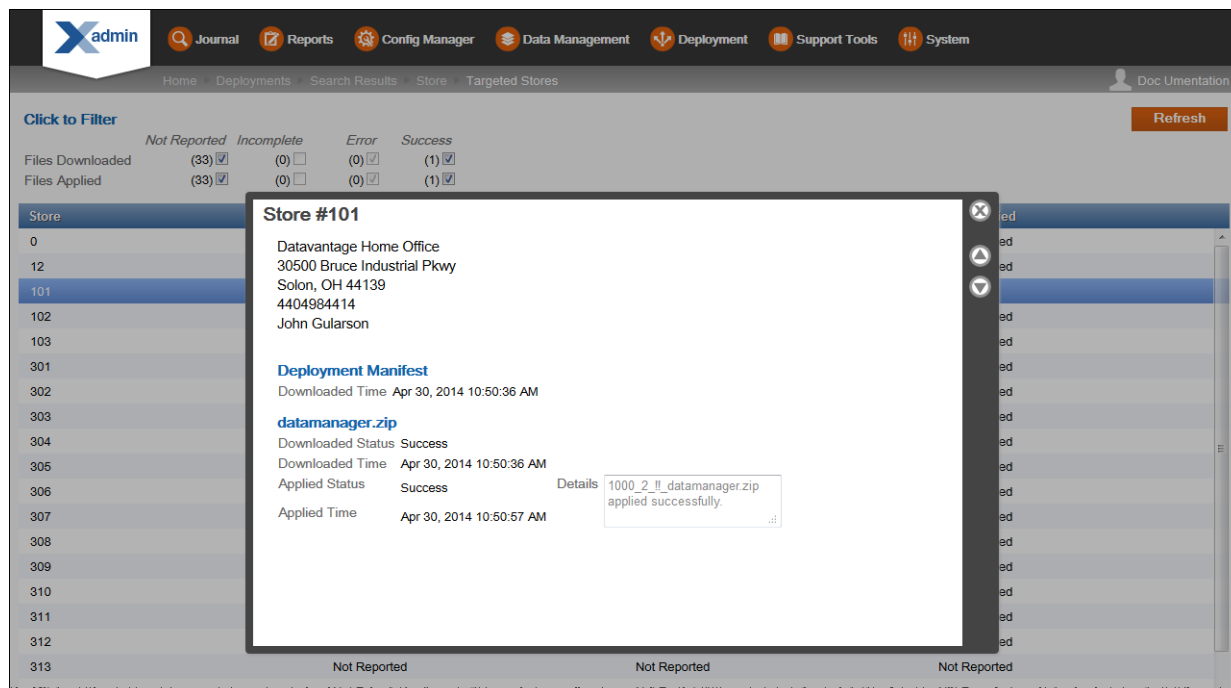
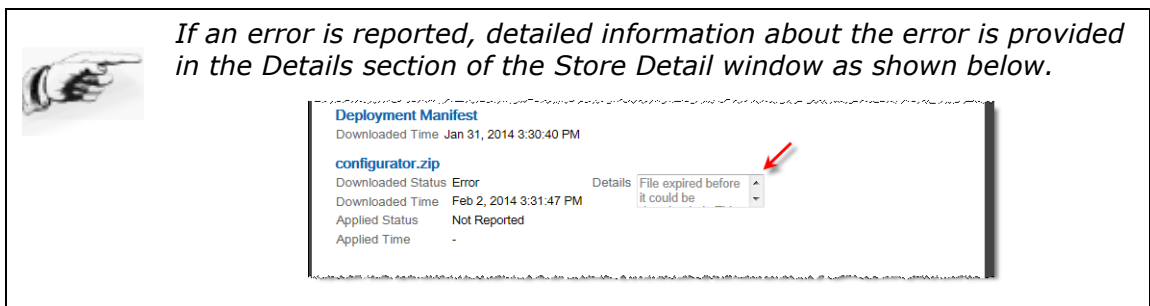


Figure 7-20: Store Detail Window



4. If needed, use the  arrows to view detail for other stores in the list.
5. Click  to close the window and return to the Detail by Store page.

To Approve a Wave

For **Approval Required** waves, perform the following steps to approve a wave.

1. At the Deployment Summary page ([Figure 7-18 on page 214](#)), select the row of the Wave that needs to be approved.
2. At the Wave Approval window, click the Approve link to change the approval status to approved.

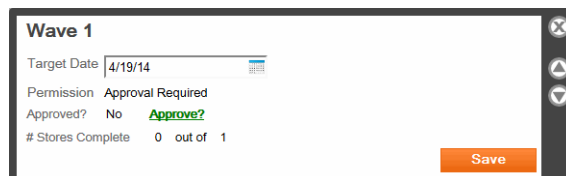
A screenshot of the 'Wave 1' approval window. It features a 'Target Date' field with '4/19/14' and a calendar icon. Below this, the 'Permission' is 'Approval Required'. The 'Approved?' status is 'No', with a green 'Approve?' link next to it. At the bottom, it shows '# Stores Complete' as '0 out of 1'. A 'Save' button is located in the bottom right corner. The window has standard OS controls (close, up, down) on the right side.

Figure 7-21: Wave Approval Window

3. Click **Save**. The Wave Approval Window closes and the system returns to the Deployment Summary page where the Wave now shows it has been approved.

To Unapprove a Wave



You cannot unapprove a Wave if the wave has started, for example, if the target date is today's date. Only a wave that has not started yet can be unapproved.

1. At the Deployment Summary page ([Figure 7-18 on page 214](#)), select the row of the Wave that needs to be unapproved.
2. At the Wave Approval window, click the Unapprove link to change the approval status to unapproved.

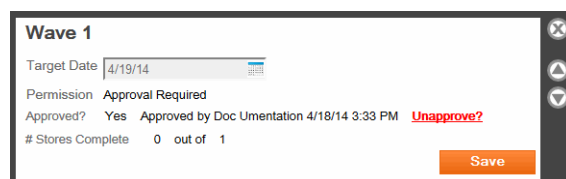
A screenshot of the 'Wave 1' approval window after being unapproved. The 'Approved?' status is now 'Yes', followed by the text 'Approved by Documentation 4/18/14 3:33 PM' and a red 'Unapprove?' link. The 'Target Date' remains '4/19/14'. The '# Stores Complete' is still '0 out of 1'. The 'Save' button is in the bottom right. The window controls are on the right.

Figure 7-22: Wave Approval Window

3. Click **Save**. The Wave Approval Window closes and the system returns to the Deployment Summary page where the Wave now shows it has not been approved.

Once a wave has been unapproved, the date can be changed and then the wave can be approved again.

To Purge Files

Use this option to purge old deployment files from the Apache Server. This option is only available for Deployments that have a status of Complete or Cancelled.

1. At the Deployment Summary page, click the [Purge Files](#) link.

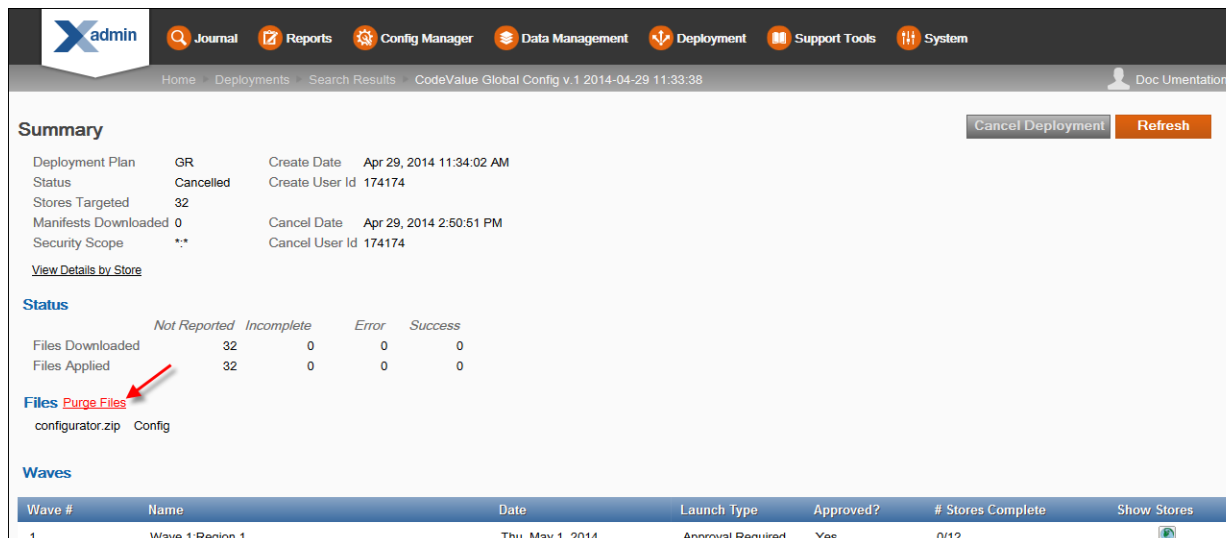


Figure 7-23: Deployment Summary Page - Purge Files Link

2. When prompted, click **Yes** to confirm you want to delete the files from Apache Server.
3. Click **OK** to close the Successful Purge window and the Purge Status is updated to Success.

At the Deployments page, the status indicates the deployment file has been purged.

ID	Name	Type	Plan	Launch Date	Waves Complete	Status
3	CodeValue & Dscnt Store/103 Config v.1 2014-04-29 16:10:27	Configurator	Single Wave	Apr 29, 2014	0 out of 1	Scheduled
2	CodeValue Global Config v.1 2014-04-29 16:59:58	Configurator	Single Wave	Apr 29, 2014	0 out of 1	Scheduled
1	CodeValue Global Config v.1 2014-04-29 11:33:38	Configurator	GR	May 1, 2014	0 out of 3	Cancelled [Purged]

Figure 7-24: Deployments Page - Search Results - Purged Status Example

To Stop a Deployment

Follow the instructions in this section if you need to stop a deployment that is under way. The Stop Deployment process will cancel the deployment before the next wave begins.



There is no way to determine where within a wave (e.g. which store it's on) the deployment will be stopped. Once the Stop Deployment button is selected, the wave is stopped immediately and the remaining stores will not be updated.

Once a deployment has been stopped it cannot be restarted. It must be re-created to run again.

1. From the Xadmin menu, select **Deployment** --> *View Deployments* or click the [View Deployments](#) link in the **Deployment Manager** panel.
2. At the Deployments page select the deployment you want to stop from the summary list of deployments.
3. At the Deployment Summary page, click **Stop Deployment**.

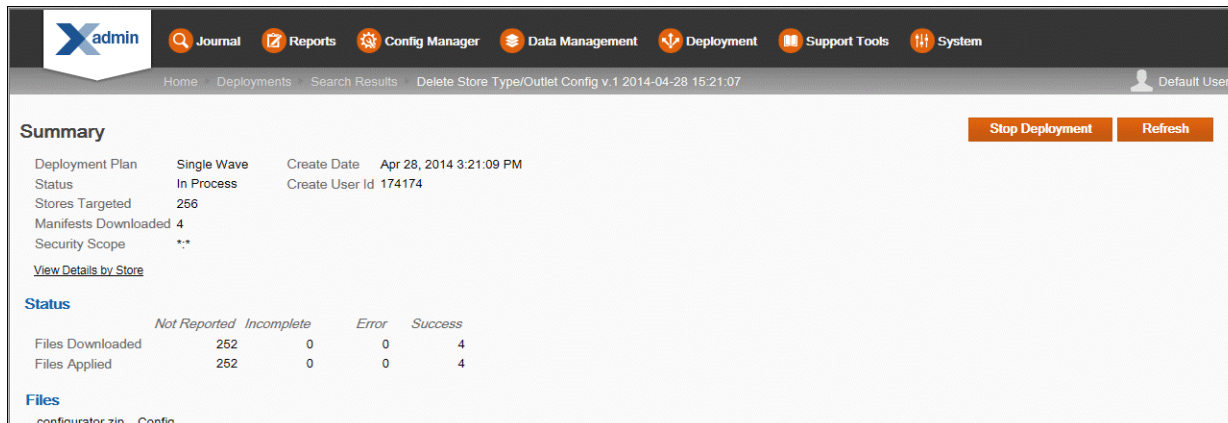


Figure 7-25: Deployment Summary Page

4. When prompted, select **Yes** to stop the deployment, and click **OK** when prompted to acknowledge the deployment has been stopped.

*If you decide not to stop the deployment by clicking **No**, you are returned to the Deployment Summary page without making any changes.*

To Cancel a Deployment



Once a deployment has been cancelled it cannot be restarted. It must be re-created to run again.

Follow the instructions in this section if you need to cancel a deployment. You can only cancel a deployment if no manifests have been downloaded, and all statuses are unreported.

1. From the Xadmin menu, select **Deployment** --> **View Deployments** or click the **View Deployments** link in the **Deployment Manager** panel.
2. At the Deployments page select the deployment you want to cancel from the summary list of deployments.
3. At the Deployment Summary page, click **Cancel Deployment**.

Summary

Deployment Plan: GR
Status: Approval Required
Stores Targeted: 32
Manifests Downloaded: 0
Security Scope: **

Create Date: Apr 29, 2014 11:34:02 AM
Create User Id: 174174

[View Details by Store](#)

Status

	Not Reported	Incomplete	Error	Success
Files Downloaded	32	0	0	0
Files Applied	32	0	0	0

Files

configurator.zip Config

Waves

Wave #	Name	Date	Launch Type	Approved?	# Stores Complete	Show Stores
1	Wave 1:Region 1	Thu, May 1, 2014	Approval Required	Yes	0/12	

Figure 7-26: Deployment Summary Page - Cancel Deployment Example



The **Cancel Deployment** button will only be available if no manifests have been downloaded and all statuses are unreported for the deployment. Once the Deployment is under way, a "Stop Deployment" button will be available here. The Stop Deployment option cancels the deployment before the next wave begins.

4. When prompted, select **Yes** to cancel the deployment, and click **OK** when prompted to acknowledge the deployment has been cancelled.

Are you sure you want to cancel "CodeValue Global Config v.1 2014-04-29 11:33:38" deployment?

YesNo

Figure 7-27: Cancel Deployment Prompt

If you decide not to cancel the deployment by clicking **No**, you are returned to the Deployment Summary page without making any changes.

5. The date the deployment was cancelled and the user who cancelled the deployment are shown on the Deployment Summary page.

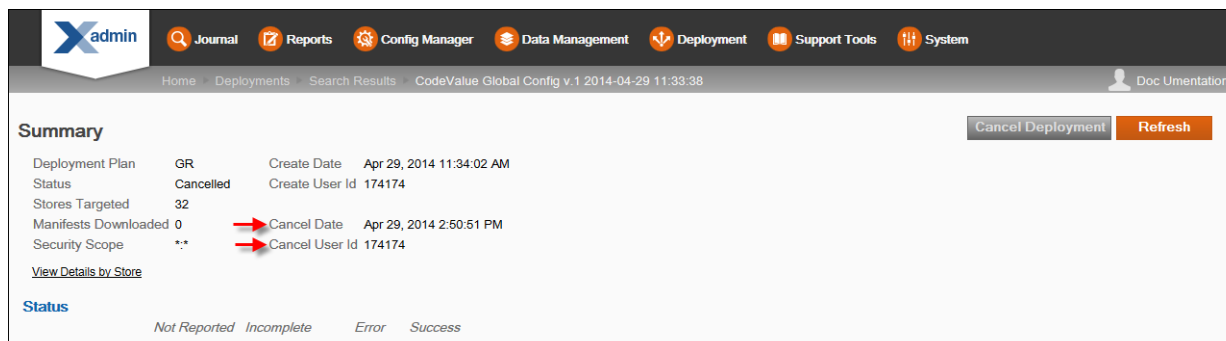


Figure 7-28: Deployment Summary Page - Cancelled Deployment

Automatic External File Delivery

The Automatic External File Delivery feature provides the ability to have any standard DataLoader files (.dat, .mnt, .reo, .rep) left by any external system in a file drop directory so the files can be deployed to stores.

Xadmin monitors a specific directory for files. This directory is configured in **System-->Xadmin Settings -->Directory for Automatically Deployed Data Files (AutoFileTransferDirectory)**.

The interval at which the directory is checked is also configured in **System-->Xadmin Settings-->Detection Interval for Automatically Deployed Data Files (AutoFileTransferSchedulerInterval)**. See ["Xadmin Configuration Options" on page 27](#).

Any files placed in the **auto** directory, in the appropriate **org** directory, (/filetransfer/auto/org\${organizationId}/) will be picked up and a deployment will be created for that file. No user intervention is required to move the files to the stores.

The order in which files are consumed by Xadmin is not guaranteed. If a specific ordering of records across multiple files is required, MICROSOFT recommends that those files be combined in a single file, in the appropriate order, before dropping them off in this directory.

Setting File Delivery Details

Each file must contain an XML header line that will dictate when and where the file is delivered.

```
<Header line_count="3" download_id="configurator::7::72::0"
application_date="2013-05-26" target_org_node="STORE:102"
deployment_name="specified_name" download_time="IMMEDIATE"
apply_immediately="true" />
```

Line Count [optional]

The **line_count** attribute is used to indicate how many lines of data are in the file (not including the header). If it is not present, the DataLoader will not validate total line count when loading the file, but will still load the file.

Download Id

The **download_id** attribute is used to identify the download.

Application Date

The **application_date** attribute is used to determine the date on which the file will be deployed. If the application date attribute is not present, the date that the file is picked up will be used which means the file will be deployed on the same day.

Target Org Node

The **target_org_node** attribute is used to determine to what org node or store collection the file will be deployed. Its format is <org code>:<org value> (e.g. STORE:102) or <CollectionName> (e.g. My Collection). If the target org node attribute is not present, *: * will be used which means the file will be delivered to all stores in the organization.

Deployment Name

If the **deployment_name** field is populated, the value will be used as the name for the deployment, otherwise the auto-suggestion name will be used.

Download Time

The **download_time** attribute is used to indicate when the file will be downloaded. Possible values are "IMMEDIATE" and "STORE_CLOSE".

If a deployment is scheduled for immediate download, Xenvironment will begin to download the file immediately. If a deployment is scheduled for download during the store close, Xenvironment will wait until the nightly closing process is initiated to begin downloading the file.

If download_time is not present, the deployment will be scheduled with "STORE_CLOSE".

Apply Immediately

The **apply_immediately** attribute is used to indicate when the file will be applied. Possible values are true and false. If set to true, the file is loaded immediately. If set to false, the file is scheduled to be applied during the closing process.

If "apply_immediately" is not present, the deployment will be scheduled with "false".

See [Appendix A: "About Deployments" on page 260](#) for more information.

Electronic Journal

Overview

The **Electronic Journal** component is used to view transactional data from the Xcenter database in a receipt format. The Xadmin Electronic Journal is similar to the Xstore POS Electronic Journal, and provides the ability to search for and review transactional activity within your store hierarchy. This application runs against the Xcenter database and provides visibility for transactions across all stores.

The search capabilities allow you to quickly locate any transaction across the chain. You can view the detail in a receipt format that mirrors the receipt generated at the store, including the customer's signature (if captured). This feature is commonly used for credit dispute (chargeback) resolution, as well as loss prevention investigation.

About this Chapter

This chapter contains instructions on starting the Electronic Journal function and searching for transaction data.

Using the Xcenter Electronic Journal

1. From the Xadmin menu, select **Journal --> Electronic Journal**, or click the [Electronic Journal](#) link in the Reports panel.

The Electronic Journal page displays, showing the search parameters.

2. Enter your search criteria to limit the amount of data returned.

The following search parameters are available:

- **Org Node** - Enter a node ID or click the  icon to select a node from the hierarchy tree to restrict the search to a store (or stores) in the organization. [**REQUIRED**]
- **Register #** - Enter the identifier for a specific register or leave blank for all registers.

- **Customer Number** - Enter a customer's ID number to view information about a specific customer, or leave blank for all customers.
- **Customer Last Name** - Enter a customer's last name to search for and view information about a specific customer, or leave blank for all customers.
- **Credit Card Last 4 #** - Enter the last 4 digits of the credit card.



Entry is restricted to only 4 digits.

- **Tender Type** - Select a tender from the list to search for a specific type of tender, or accept the default value <ALL> to view information for all tenders.
 - **Transaction Type** - Select the type of transaction from the drop-down list; the default is Retail Sale. The value <ALL> allows you to search for all transaction types.
 - **Business Date** - Enter a start date and end date, accept the default, or click the calendar icon to choose the dates. The default is the previous 30 days.
 - **Transaction ID** - Enter a transaction identifier for a specific transaction, a range of transactions, or leave these fields blank to view information for all transactions. Enter the same transaction number in both fields to locate a specific transaction number.
 - **Cashier ID** - Enter the identifier for the ringing associate's ID, a range of ringing associate IDs, or leave blank for all associates.
3. Click the **Search** button to execute the search:
 - ☐ The information returned from the search shows the store ID, register ID, transaction ID, transaction type, transaction status, cashier ID, business date, customer name, and transaction total.
 - ☐ The first 200 results are displayed on the page. If the desired result is not listed, click **Electronic Journal** in the breadcrumb at the top of the page to return to the search parameters. Refine the search criteria and search again.
 - ☐ A sorting component is available for a column, when applicable.
 - ☐ If a single transaction matches the search criteria, only one row is returned.
 4. Click a transaction in the list to view additional information.

Store	Register #	Transaction ID	Transaction Type	Status	Cashier ID	Date	Customer Name	Total
101	1	260	Retail Sale	Complete	100	Apr 24, 2014	Teresa Pascua	\$0.00
101	1	269	Retail Sale	Complete	100	Apr 24, 2014	Teresa Pascua	\$86.39
101	1	268	Retail Sale	Complete	100	Apr 24, 2014	Jane Manzo De Guerra	\$5.00
101	1	266	Retail Sale	Complete	100	Apr 24, 2014	Jane Manzo De Guerra	\$13.51

Figure 8-1: Electronic Journal Viewer Page - Transaction List

5. If multiple receipt types exist for this transaction, select a receipt from the list:

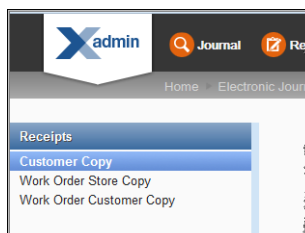


Figure 8-2: Receipt Type List

The receipt data is displayed as an image in receipt format.

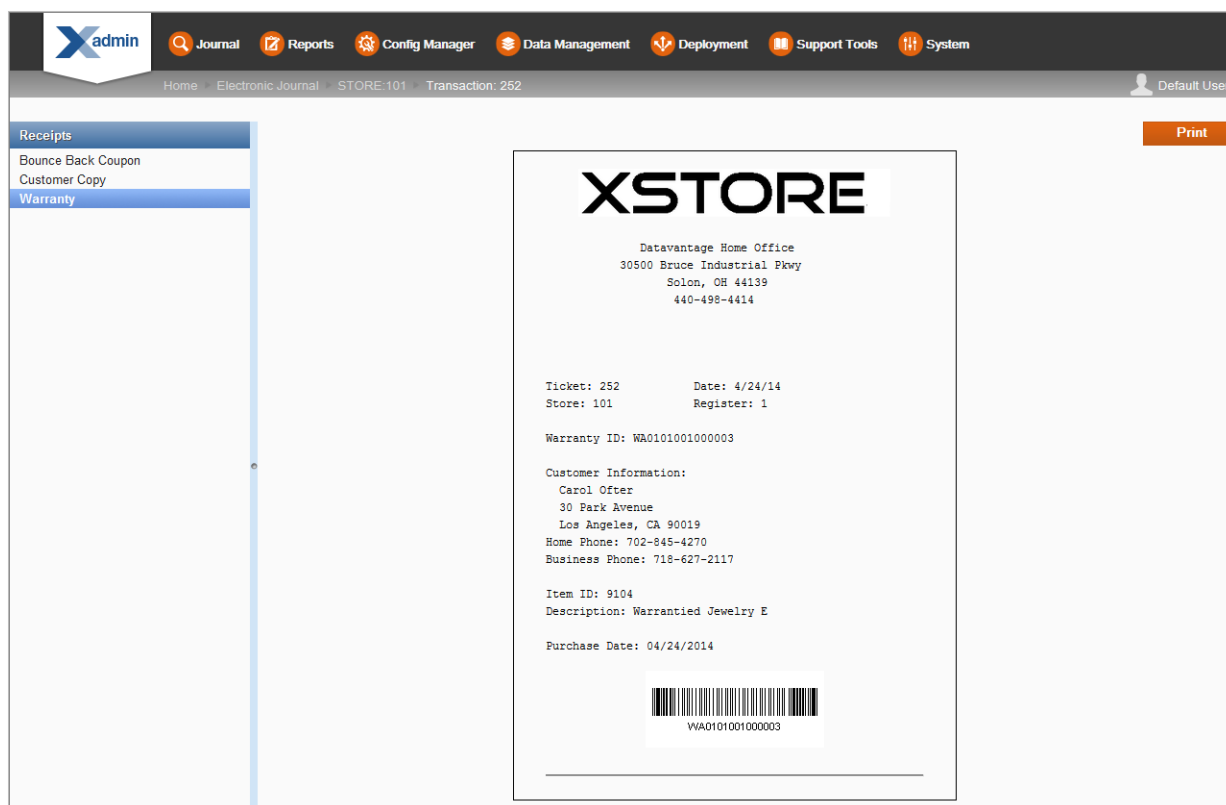
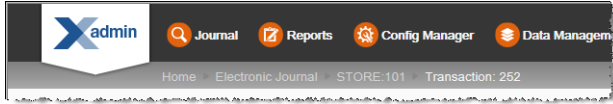


Figure 8-3: Transaction Receipt Data

6. When the receipt image is displayed you have the following options:

- ☐ Click the **Print** button to print a copy of this receipt.
- ☐ Select a different receipt type from the list (Figure 8-2) to view a different receipt from this transaction.
- ☐ Click the breadcrumbs to navigate to a previous page:
 - To return to the transaction list for this location, click the location breadcrumb (STORE:101 in this example).
 - To return to the Ejournal search parameters, click the **Electronic Journal** breadcrumb.
 - To return to the Home page, click the **Home** breadcrumb.



Reports

Overview

The **Reports** component is used to run and view Xstore reports against the Xcenter (central) database.

Xadmin Reports provides a wide variety of reports to help you monitor and analyze a store's operations and sales. The reports are grouped by functionality, similar to their configuration in base Xstore POS reporting.

About This Chapter

This chapter contains the following sections:

- For information on starting the Reports function, see ["Accessing and Running Xadmin Reports" on page 231](#).
- For a list of reports, see ["Available Reports By Category" on page 233](#).

Where To Look For More Information

A system configuration allows you to turn off and on any of the valid file format types available to be used when viewing/saving reports. You can also select the default format to be selected from the list of enabled file formats.

For instructions on specifying the report formats to be available to the user, see [Chapter 3 "System Settings"](#), ["Reports Category" on page 30](#).

Accessing and Running Xadmin Reports



Only reports the user has privileges to access (based on the user's role) will be available.

1. From the Xadmin menu select **Reports** --> Reporting category option (Flash Sales Summary or All Reports), or from the Reports panel, click the Flash Sales Summary link or the Daily Sales & Cash Report link.
 - ☐ If you selected the All Reports link, use the report tree structure to select the specific report, then continue with step 2 below.
 - ☐ If you selected the Flash Sales Summary link or the Daily Sales & Cash Report link, the specific report parameters page displays. Continue with step 2 below.
 - ☐ If you selected the Electronic Journal link in the Reports panel, refer to [Chapter 8, "Electronic Journal" on page 226](#) for more information.
2. Enter the report parameters to be used to run the report.



The report parameters are the same options that are available when running the identical report within Xstore POS, and are specific to each report.

Refer to the Xstore Reports Guide for detailed information about the standard reports available in Xadmin.

3. In addition to the reporting parameters, specify an output type:



The output types available here are configured in Xadmin Settings. See [Chapter 3 "System Settings", "Reports Category" on page 30](#).

- ☐ **PDF** - Portable Document Format
- ☐ **HTML** - HyperText Markup Language (*The predominant markup language for web pages.*)
- ☐ **CSV** - Comma Separated Values (*A common import and export format for spreadsheet layout.*)
- ☐ **XLS** - MS Excel
- ☐ **XLSX** - MS Excel 2007 or newer
- ☐ **PPTX** - MS PowerPoint
- ☐ **RTF** - Rich Text Format
- ☐ **DOCX** - MS Word



Known FireFox Limitations

XLSX, PPTX, and DOCX output types may not open properly in FireFox. The work-around for this is as follows:

1. *Right-click on the "Click To Download Report" link.*
2. *Select "save as..." and save the report to the local file system.*
3. *Open the report outside of the browser.*

4. Click **Run Report** to create the report. The report will be displayed in the format you selected, or you may need to click the Download link ([Click To Download Report](#)) when applicable.

Report Example

Daily Sales Report

Date Range: 04/24/2014 - 04/24/2014 Employee: All

Trans Date	Trans #	Reg #	Employee #	Item # & Description	Qty	Item Unit Price	Override Price	Discounts	Net Sales
BUSINESS DATE: 04/24/2014									
04/24/2014	9	1	100	1017 Signature Cleats	1	\$69.50	\$50.00	\$0.00	\$50.00
TOTAL FOR 9#:									\$50.00
04/24/2014	10	1	100	1015 Signature Blue Jersey	1	\$118.00	\$50.01	\$0.00	\$50.01
TOTAL FOR 10#:									\$50.01
04/24/2014	11	1	100	1017 Signature Cleats	1	\$69.50	\$50.02	\$0.00	\$50.02
TOTAL FOR 11#:									\$50.02
04/24/2014	15	1	100	1118 FREE FOR ALL	1	\$80.00	\$0.00	\$0.00	\$80.00
04/24/2014	15	1	100	330105 Red XXL Tee Shirt	1	\$12.50	\$0.00	\$1.25	\$11.25
04/24/2014	15	1	100	6007 Jewelry Cleaner	1	\$6.99	\$0.00	\$0.70	\$6.29
TOTAL FOR 15#:									\$97.54
04/24/2014	19	1	100	330102 Red M Tee Shirt	1	\$12.50	\$0.00	\$1.83	\$10.67
04/24/2014	19	1	100	501 Pre-Sale Deposit	1	\$992.91	\$0.00	\$0.00	\$992.91
04/24/2014	19	1	100	6010 14K Diamond Ring	1	\$799.00	\$0.00	\$116.99	\$682.01
04/24/2014	19	1	100	6014 Navy 2 Button Blazer	1	\$249.00	\$0.00	\$22.32	\$226.68
TOTAL FOR 19#:									\$1,912.27

Figure 9-1: Daily Sales Report Example - PDF Format

5. To close the report, click the on the tab.
6. To return to the report parameters, click the **Reports** tab.

Available Reports By Category

The following reports are available in base Xadmin. Refer to the *Xstore Reports Guide* for detailed information about these reports.

Flash Sales Reports Category

- Flash Sales Summary
- Flash Sales By Department
- Flash Sales By Hour
- Flash Sales By Employee

Sales Reports Category

- Daily Sales & Cash Report
- Sales By Hour Report
- Sales By Hour Analysis Report
- Sales By Department Report
- Sales By Department and Employee Report
- Returned Merchandise Report
- Daily Sales Report
- Best Sellers By Style Report
- Best Sellers By Item Report
- Worst Sellers By Style Report
- Worst Sellers By Item Report
- Credit Card Report
- Daily Sales Total Report

Stock Valuation Reports

- **WAC Reports**
 - ☐ WAC Stock Valuation Report
 - ☐ WAC Detail Report
- **PWAC Reports**
 - ☐ PWAC Stock Valuation Report
 - ☐ PWAC Detail Report

Airport Reports

- Airport Authority Report

Inventory Reports Category

- Shipping Exception Report
- Receiving Exception Report
- Inventory Stock Cost
- Receiving Report

Employee Schedule Reports Category

- Employee Performance Report

Customer Account Reports Category

- Layaway Aging Summary Report
- Layaway Aging Detail Report
- Layaway Account Activity Summary Report
- Layaway Account Activity Detail Report
- Customer Account Activity Summary Report

Misc Reports Category

- Journal Report
- Store Locations Report
- Customer List Report
- Special Orders Report
- Price Change Report
- Item List Report
- Employee Tasks Report

Transaction Audit Reports

- No Sale Report
- Price Override Report
- Line Void Report
- Post Void Summary Report
- Post Void Detail Report
- Suspended Transaction Detail Report
- Suspended Transaction Summary Report
- Transaction Cancel Detail Report
- Transaction Cancel Summary Report
- Gift Certificate Report
- Tax Exemption Report

Support Tools

Overview

The Support Tools component allows you to view issues taking place at the store level, and to set up email alerts to be sent to the appropriate personnel when any issues occur.

The **Alert Console** shows logged events for replication errors, connectivity errors, application errors, hardware errors, update errors, and version errors. Using **Alert Settings** it is also possible to customize the alert severity threshold level values for your organization, providing the ability to set your organization's tolerance levels for the various alert events.

The **Deployed Xstore Versions** support tool allows you to view the Xstore versions deployed throughout your organization, in a pie chart view. You can quickly see the number of stores running each version of Xstore, and to get additional store-level information.

The **Publish PosLog Data** support tool provides the ability to compile the PosLog data from within Xcenter and save it as a file to a specified location, or to rebroadcast the PosLog data to specified broadcasters in order to post to a 3rd party system (Relate, Serenade, XBR, etc.) through platform independent technologies such as Web services. This allows you to manage this information centrally, without having to connect remotely to stores.

The **Replication Status** support tool provides the ability to view and act on replication errors. Replication is the process used to copy and distribute data from one database to another, and to synchronize between the databases to maintain consistency.

About this Chapter

- The **Alert Console** feature allows corporate users to view an Alerts console showing logged events for replication errors, connectivity errors, application errors, hardware errors, update errors, and version errors. See [“Alert Console” on page 237](#).
 - ❑ [“Replication” on page 239](#) - describes the logged events for replication errors.
 - ❑ [“Connectivity” on page 240](#) - describes the logged events for connectivity errors.
 - ❑ [“Application” on page 242](#) - describes the logged events for application errors.
 - ❑ [“Hardware” on page 243](#) - describes the logged events for hardware errors.
 - ❑ [“Updates” on page 244](#) - describes the logged events for update errors.
 - ❑ [“Versioning” on page 245](#) - describes the logged events for version errors.
- The **Alert Settings** feature provides the ability to set up an email notification list to be used when critical alerts occur, and provides the ability to modify and customize the alert severity threshold values for your organization. For information about the Alert Settings feature, see [“Alert Settings” on page 246](#).
- The **Deployed Xstore Versions** feature shows Xstore version information by store in a pie chart format. For information about the Deployed Xstore Versions, see [“Deployed Xstore Versions” on page 252](#).
- The **Publish PosLog Data** feature provides the ability to publish transaction and related files from Xcenter as an alternative to polling existing files from the store. For information about publishing a PosLog, see [“PosLog Publisher” on page 254](#).
- The **Replication Status** feature provides the ability to view and act on replication errors reported here. For information about the Replication Status feature, see [“Replication Status” on page 258](#).

Alert Console

The **Alert Console** feature allows corporate users to view an Alert page showing logged events for replication errors, connectivity errors, application errors, hardware errors, update errors, and version errors.

If you set up email alerts (see ["To Set Up Critical Alert Email Recipient Addresses" on page 248](#)), an email with critical alerts details will be sent to the designated recipients. To define severity-level thresholds, see ["Alert Threshold Settings" on page 249](#).

You must have the **Alert Console** privilege to use this feature.

1. From the Xadmin menu, select **Support Tools --> Alert Console**, or click the **Alert Console** link in the **Support Tools** panel.
2. The initial **Alert Console** page provides summary-level information at a glance about any issues at the stores in your organization requiring your attention.

The system defaults to the current date and shows the date and time the Alerts Console ¹ was last updated.

The screenshot displays the Xadmin Alert Console interface. At the top, a navigation bar includes the Xadmin logo and links to Journal, Reports, Config Manager, Data Management, Deployment, Support Tools, and System. Below this, a breadcrumb trail shows 'Home' and 'Alert Console'. A 'Date' field is set to '5/12/14', with a calendar icon and links for 'Previous day' and 'Next day'. A legend indicates severity levels: CRITICAL (red), HIGH (orange), MEDIUM (yellow), and LOW (blue). A 'Last Updated' timestamp '5/13/14 4:23 PM' is displayed. The main content area is divided into six panels, each showing a table of alerts:

- Replication:**

Time	Store	Type	#
08:33:10	236	RepQ Block	2991
05:06:47	101	Xcenter	3
04:31:09	236	Xcenter	1
- Connectivity:**

Time	Store	Type	#
15:35:25	101	DB Offline	4
03:01:35	567	DB Offline	1
- Application:**

Time	Store	Type	#
15:11:19	236	Helpdesk	1
13:09:38	101	Helpdesk	1
- Hardware:**

Time	Store	Type	#
15:49:15	101	Low Disk	1
- Updates:** No alerts.
- Versioning:**

Time	Store	Type	#
23:54:00	567	Xstore Conflict	83
11:03:49	101	Config Conflict	45

Figure 10-1: Alert Console Page - Business Date Field

To review alerts from previous dates,

- ☐ enter the date in the *Date* field, select a date from the calendar, ²
- ☐ or use the *Previous Day* and *Next Day* options ³.

About Alerts

A background process is responsible for reviewing events published to Xcenter and determining whether to create a new alert, or update an existing alert based on currently configured severity thresholds and rules.

If there are any alerts, the console window will show the following information:

- The **severity** of the event: Critical 🚨 , High 🚧 , Medium 🟡 , Low 🟢 .
- The **time** the event was logged.
- The **store** where the event occurred.
- The **type** of event.
- The **number (#)** of times the event occurred.

The screenshot shows the Xadmin Alert Console interface. At the top, there's a navigation bar with icons for Journal, Reports, Config Manager, Data Management, Deployment, Support Tools, and System. Below this is a breadcrumb trail: Home > Alert Console. The main area is divided into several panels, each displaying a table of alerts. A legend at the top right indicates severity levels: 🚨 = CRITICAL, 🚧 = HIGH, 🟡 = MEDIUM, 🟢 = LOW. The date is set to 4/18/14, and the last update time is 5/13/14 4:31 PM.

Time	Store	Type	#
23:59:29	236	RepQ Block	1213
10:47:03	101	Xcenter	3

Time	Store	Type	#
09:50:13	101	DB Offline	2
09:49:38	567	DB Offline	1
09:49:19	236	DB Offline	1

Time	Store	Type	#
17:41:34	236	Helpdesk	5
15:59:58	101	Helpdesk	4
13:54:55	567	Helpdesk	1
13:22:37	101	Xenv Task	26
12:49:27	236	Xenv Close	2

Time	Store	Type	#
14:26:16	236	Low Disk	2

Updates: No alerts.

Time	Store	Type	#
23:57:02	567	Xenv Conflict	25
23:57:02	567	Xstore Conflict	96
23:54:53	101	Config Conflict	89
17:31:05	236	Xstore Conflict	23

Figure 10-2: Alert Console (With Alerts)

Replication			
	Time	Store	Type
	23:59:59	101	RepQ Process
	23:59:54	1736	RepQ Process
	15:37:21	103	Xcenter
	12:50:41	110	RepQ Process
	09:48:49	101	RepQ Block

Replication

Click a logged event in the list to view additional details.

The logged events, "Xstore replication queue errors" and "Xstore replication backlog" and "Xcenter persistence failure" are sourced from Xcenter's `rpl_replication_data` table.

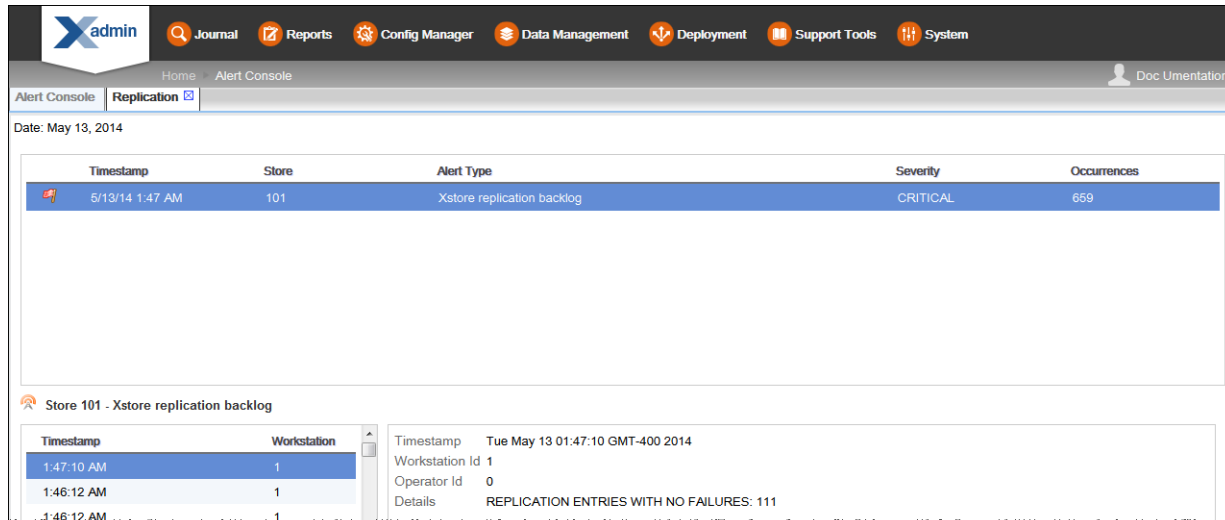


Figure 10-3: Replication Logged Events Detail

Replication Logged Events

- **Xcenter persistence failure:** A replication request was delivered to Xcenter but could not be persisted to the Xcenter DB. As a result, a record was written to the `rpl_replication_data` table. Information returned includes replication payload and meta data. (*Xcenter*)
- **Xcenter replication crash:** These errors are event Log error codes reported by the replication system. (*Repl Crash*)
- **Xstore replication queue errors:** An error failure occurred during replication. As a result, records are still in the register's replication queue. Information returned includes replication payload and meta data. (*RepQ Process*)
- **Xstore replication backlog:** There are more than "X" records in the replication queue that have not been tried, indicating a backlog or potential mis-configuration. Information returned includes replication payload and meta data. (*RepQ Block*)
- **Xstore replication queue read errors:** An error occurred when pulling data from the local replication queue. (*RepQ Read*)

Connectivity				
23:56:32	101	Register Offline	34	
23:56:32	103	Register Offline	30	
23:56:32	110	Register Offline	90	
14:46:23	1736	DB Offline	6	
09:56:32	438	Register Offline	1	
09:43:20	101	DB Offline	2	

Connectivity

Click a logged event in the list to view additional details.

The logged events shown here are sourced from Xcenter's `ctl_event_log` table.

Alert Console | Connectivity

Date: May 13, 2014 | Last updated: May 13, 2014 4:43:27 PM

Timestamp	Store	Alert Type	Severity	Occurrences
5/13/14 2:53 PM	101	Xstore Register offline	CRITICAL	35
5/13/14 1:19 AM	101	Xpay auths offline	CRITICAL	84
5/13/14 12:41 AM	101	Xstore Datasource offline	LOW	2

Store 101 - Xpay auths offline

Timestamp	Workstation
1:19:30 AM	1
1:19:30 AM	1
1:19:30 AM	1

Timestamp: Tue May 13 01:19:30 GMT-400 2014
 Workstation Id: 1
 Operator Id: 100
 Details: Payment Systems Host Offline: dtv.tenderauth.OfflineException: no more hosts

Figure 10-4: Connectivity Logged Events Detail

Connectivity Logged Events

- **Data source offline:** A ping failure or data access error occurred. As a result the data source will not be used. Information returned includes datasource name, scope (WAN/LAN), and cause. (*DB Offline*)
- **Payment system offline:** A payment systems host (Xpay) could not be reached. Information returned includes the message, stack trace, and destination IP/Host. (*Xpay Offline*)
- **Order broker service offline:** The order broker host (Locate) could not be reached. Information returned includes the message, stack trace, and destination IP/Host. (*Locate Offline*)
- **Order broker service error:** An error occurred during the order update process. Information returned includes message and stack trace. (*Locate Error*)
- **Service error:** An error occurred while calling a web service. Information returned includes message, stack trace, and destination IP/Host. (*Service Offline*)

- **Event log servlet error:** An error occurred with the servlet Xenvironment uses to report event log errors to Xcenter/Xadmin. (*Evtlog Error*)



Xenvironment uses this servlet to communicate any problems directly to Xcenter.

- **Xstore register offline:** A register (Xcenter client) has not sent a status update in "X" minutes. Information returned includes Store # and Reg #. (*Register Offline*)



About Xcenter register offline alert data

Xcenter register offline alert data is sourced from the `ctl_event_log` table as noted above, and also has a technical relationship to the `ctl_device_registration` table.

There is a process that runs in Xadmin that periodically observes the `ctl_device_registration` table. It notices when registers stop "checking-in" within certain configurable time limits. When the process notices a register has failed to check in, it adds a record to Xcenter's `ctl_event_log` (which then gets reported as an alert just like all the other alerts).

The process that observes `ctl_device_registration` can be configured as follows:

- ❑ *Interval for Checking for Missing Registers - controls how frequently the process inspects `ctl_device_registration` for missing registers. Default is 15 (minutes).*
- ❑ *Time Before Register Is Considered Missing - how much time must elapse since a device last "checked in" before it is considered missing. Default is 61 (minutes).*
- ❑ *Time Before Missing Register Is Ignored - once a device has been missing for the amount of time specified here, it is no longer reported as a problem. Default is 72 (hours, aka 3 days).*

See also: [Chapter 3, "System Settings" on page 27](#) for more information about Xadmin Configuration.

Application			
Time	Store	Type	#
16:46:56	438	Helpdesk	2
08:22:05	1736	Pre-Flight	2

Application

Click a logged event in the list to view additional details.

The logged events shown here are sourced from Xcenter's `ctl_event_log` table.

Xadmin

Journal

Reports

Config Manager

Data Management

Deployment

Support Tools

System

Home

Alert Console

Default User

Alert Console

Application

Date: May 9, 2014

Timestamp	Store	Alert Type	Severity	Occurrences
 5/9/14 3:13 PM	101	Helpdesk error	LOW	1
 5/9/14 2:51 PM	236	Helpdesk error	LOW	2
 5/9/14 10:56 AM	101	Pre-flight error	LOW	2
 5/9/14 10:31 AM	1717	Pre-flight error	LOW	1

 Store 101 - Pre-flight error

Timestamp	Workstation
10:56:29 AM	1
10:47:06 AM	2

Timestamp

Fri May 09 10:56:29 GMT-400 2014

Workstation Id

1

Operator Id

0

Details

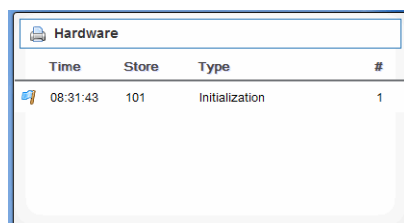
SCHEMA_LOCAL_VS_STORE :: The database schema versions at LOCAL and STORE levels do not match.

Figure 10-5: Application Logged Events Detail

Application Logged Events

- **Config path error:** A pre-flight error occurred when Xstore tried to get its configpath information from Xcenter. (*Cfg-Path*)
- **Pre-flight error:** (Data, ciphers, SSL, etc.) A pre-flight error or errors occurred during application startup. All errors are included in this single message. Information returned includes pre-flight error names and descriptions. (*Pre-Flight*)
- **SSL expiration check:** An SSL certification used for communication with Xcenter or Xpay is nearing, or has reached, its expiration date. Information returned includes a message. (*SSL Cert*)
- **Out of memory error:** The JVM ran out of memory, terminating the application. Information returned includes stack trace. (*Crash*)
- **Helpdesk error:** An unexpected error (helpdesk error) occurred. Information returned includes stack trace. (*Helpdesk*)
- **miStore crash:** An unexpected error occurred which caused the miStore application to stop functioning. Information returned includes stack trace. (*miStore Crash*)
- **miStore low memory:** The miStore application is running low on available memory. Information returned includes stack trace. (*miStore Memory*)
- **Missed Close:** A store close was missed. (*Missed Closing*)
- **Restart:** A mid-day restart was performed. (*Restart*)

- **Xenvironment Task:** Error message from Xenvironment related to atoms and chains. (*Xenv Task*)
- **Xenvironment Database:** Error message from Xenvironment related to database backups/restores. (*Xenv DB*)
- **Xenvironment IPC:** Error message from Xenvironment for IPC errors with the IPC server. For example, when the SSL certificate is nearing expiration. (*Xenv IPC*)

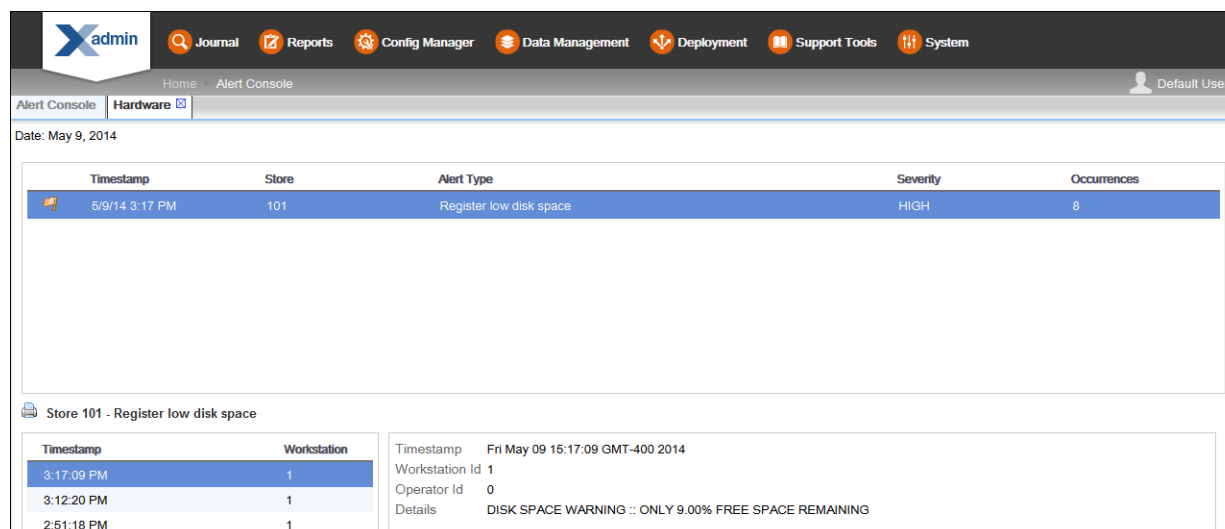


Time	Store	Type	#
08:31:43	101	Initialization	1

Hardware

Click a logged event in the list to view additional details.

The logged events shown here are sourced from Xcenter's `ctl_event_log` table.



The screenshot shows the Xadmin interface with the 'Alert Console' tab selected. The 'Hardware' sub-tab is active, displaying a table of logged events. The table has columns for Timestamp, Store, Alert Type, Severity, and Occurrences. A single event is listed: 'Register low disk space' on 'Store 101' with a severity of 'HIGH' and 8 occurrences. Below the table, there is a detailed view for 'Store 101 - Register low disk space'. This view includes a sub-table of timestamps and workstation IDs, and a detailed description of the event: 'DISK SPACE WARNING :: ONLY 9.00% FREE SPACE REMAINING'.

Timestamp	Store	Alert Type	Severity	Occurrences
5/9/14 3:17 PM	101	Register low disk space	HIGH	8

Timestamp	Workstation
3:17:09 PM	1
3:12:20 PM	1
2:51:18 PM	1

Timestamp: Fri May 09 15:17:09 GMT-400 2014
 Workstation Id: 1
 Operator Id: 0
 Details: DISK SPACE WARNING :: ONLY 9.00% FREE SPACE REMAINING

Figure 10-6: Hardware Logged Events Details

Hardware Logged Events

- **Hardware device initialization errors:** A configured hardware device or devices could not be initialized. Information returned includes device names. (*Initialization*)
- **Register disk space:** The register's disk is nearing capacity and has less than 10% free. Information returned includes % free remaining. (*Low Disk*)
- **JPOS hardware device error:** A configured hardware device had a failure. (*JPOS Error*)

Updates				
	Time	Store	Type	#
	16:07:32	0	DataLoader	2
	10:25:22	101	DataLoader	1
	09:48:41	438	Update Service	1

Updates

Click a logged event in the list to view additional details.

The logged events shown here are sourced from Xcenter's `ctl_event_log` table.

The screenshot shows the Xadmin web interface. The top navigation bar includes links for Journal, Reports, Config Manager, Data Management, Deployment, Support Tools, and System. The 'Alert Console' is active, showing a list of alerts. One alert is visible: 'DataLoader error' at 3/21/14 2:45 PM, severity LOW, with 1 occurrence. Below the alert list, the details for 'Store 567 - DataLoader error' are shown. The details include a timestamp of Fri Mar 21 14:45:25 GMT-400 2014, Workstation Id 1, Operator Id 0, and a message: 'Dataloader processed data file .\download\success.dat in 0 seconds with 1 file lines. Successful Lines: 0. Failed Lines: 1. success_flag=false'.

Timestamp	Store	Alert Type	Severity	Occurrences
3/21/14 2:45 PM	567	DataLoader error	LOW	1

Store 567 - DataLoader error

Timestamp	Workstation
2:45:26 PM	1

Timestamp: Fri Mar 21 14:45:25 GMT-400 2014
 Workstation Id: 1
 Operator Id: 0
 Details: Dataloader processed data file .\download\success.dat in 0 seconds with 1 file lines. Successful Lines: 0. Failed Lines: 1. success_flag=false

Figure 10-7: Updates Logged Events Details

Updates Logged Events

- **Update service offline:** Cannot reach update service. Information returned includes stack trace. (*Update Service*)
- **DataLoader error:** A failure occurred while loading a download file. Information returned includes the message. (*DataLoader*)
- **Config updates error:** A failure occurred while applying updates. (*Apply Update*)
- **Xenenvironment update error:** An error occurred related to Xenenvironment updates. (*Xenv Update*)

Versioning				
	Time	Store	Type	#
	23:59:52	101	Config Conflict	99
	08:50:42	101	Xstore Conflict	1
	08:39:44	1736	Xstore Conflict	1

Versioning

Click a logged event in the list to view additional details.

The logged events shown here are sourced from Xcenter's `ctl_event_log` table.

The screenshot shows the Xadmin web interface. The top navigation bar includes links for Journal, Reports, Config Manager, Data Management, Deployment, Support Tools, and System. The main content area is titled 'Alert Console' and 'Versioning'. It displays a table of logged events with columns: Timestamp, Store, Alert Type, Severity, and Occurrences. The first event is highlighted: 3/21/14 11:55 PM, Store 101, Xadmin config version conflict, CRITICAL, 94 occurrences. Below the table, a detailed view for 'Store 101 - Xadmin config version conflict' is shown. This view includes a sub-table of timestamps and workstation IDs, and a details section with the following information:

- Timestamp: Fri Mar 21 23:55:19 GMT-400 2014
- Workstation Id: 1
- Operator Id: 100
- Details: ** XSTORE CONFIG VERSION CONFLICT (20120120000000-0) ** REG 1 :: 20120120000000-0 REG 2 :: 20120120000000-0 REG 99 :: null

Figure 10-8: Versioning Logged Events Details

Versioning Logged Events

- **In store version conflict for Xstore:** A single retail location has multiple versions of the Xstore application running at the same time. Information returned includes versions by register. (*Xstore Conflict*)
- **In store version conflict for Xenvironment:** A single retail location has multiple versions of Xenvironment running at the same time. Information returned includes versions by register. (*Xenv Conflict*)
- **In store version conflict for Xadmin configs:** A single retail location has multiple versions of configs running at the same time. Information returned includes versions by register. (*Config Conflict*)

Alert Settings

The **Alert Settings** feature provides the ability to set up an email notification list to be used when critical alerts occur. Email recipients will receive an email that lists each active alert in which an event has occurred since the last email, without logging into Xadmin.

This feature also provides the ability to modify and customize the alert severity threshold level values for your organization. This provides the ability to set your organization's tolerance levels for the various alert events.

1. From the Xadmin menu, select **Support Tools --> Alert Settings**.
2. The Alert Settings page has two options: **Critical Alert Email Settings** and **Threshold Settings**.

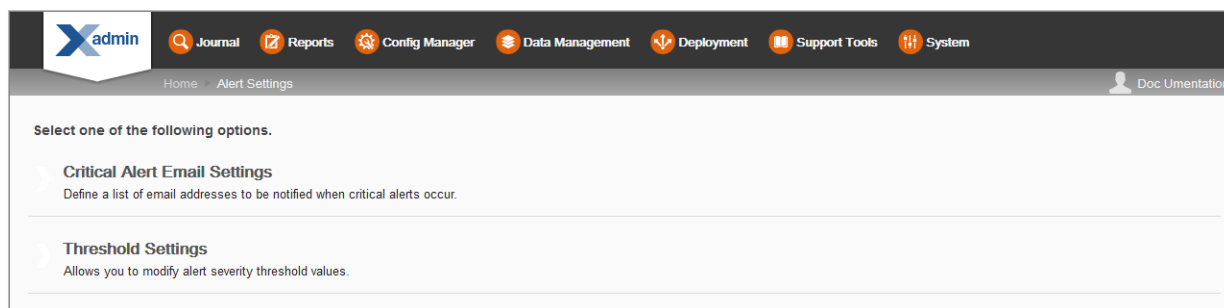


Figure 10-9: Alert Settings Page

- ❑ To set up recipients for critical alert emails, see [Critical Alert Email Settings](#) below.
- ❑ To set up alert threshold settings, see [“Alert Threshold Settings” on page 249](#).

Critical Alert Email Settings

Use this feature to define a list of email addresses to be notified when critical alerts occur. When set up, an email will automatically be sent to the specified recipients, without requiring logging in to Xadmin. The critical alert email will include all alerts that have gone critical since the previous polling interval. (The polling interval is once per minute.)



A unique alert (alertable event type/store) will be reported no more than one time in a single business day.

The email content includes the alert, alert type, store #, timestamp, and detail for the last critical alert. A critical alert email can contain one or more alerts.

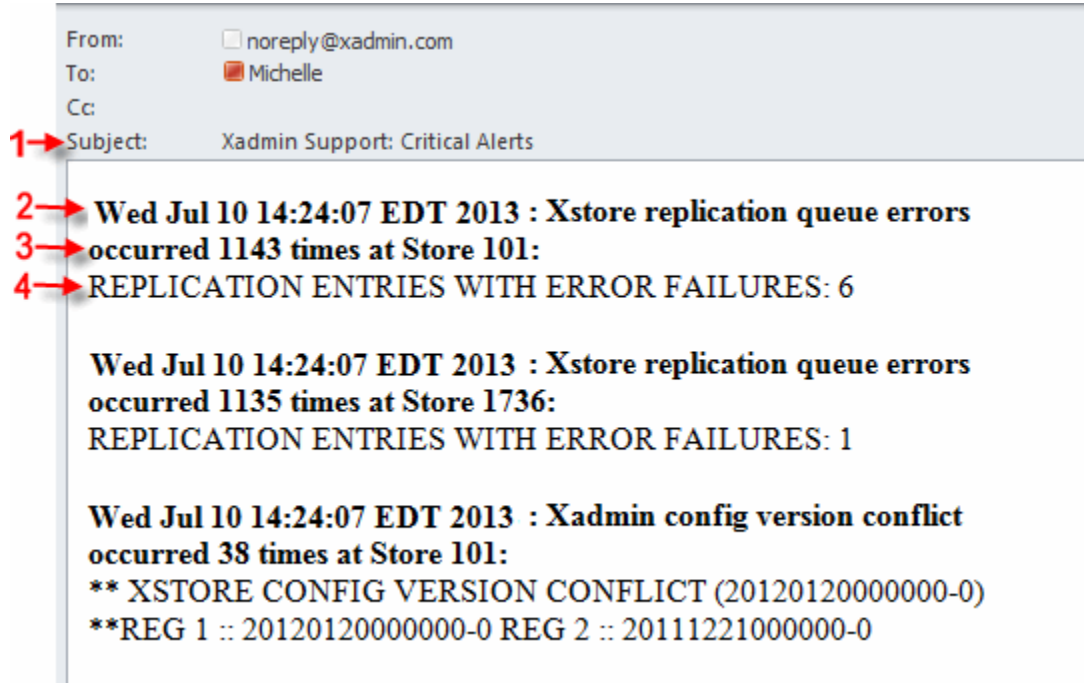


Figure 10-10: Critical Alert Email Example

Email Alert Attributes

1	Subject	Email subject line		
2	Event Timestamp	Timestamp of when the precipitating event occurred	Alert Name	Name of the alertable event type
3	Event Count	Number of events that have occurred	Rtl Loc Id	Retail Location Id of the event
4	Event Details	A description of the event		

To Set Up Critical Alert Email Recipient Addresses

Perform the following steps to set up critical email alerts.

1. From the Xadmin menu, select **Support Tools --> Alert Settings**.
2. At the Alert Settings page, click **Critical Alert Email Settings**.
3. Click the Add New link to define a new email address.

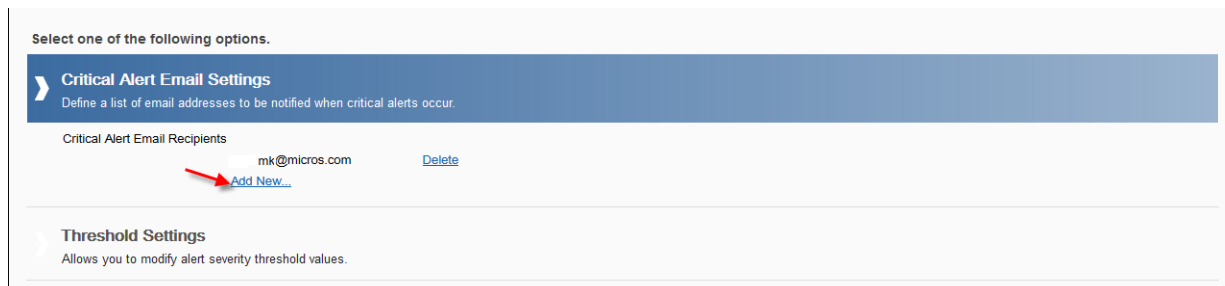
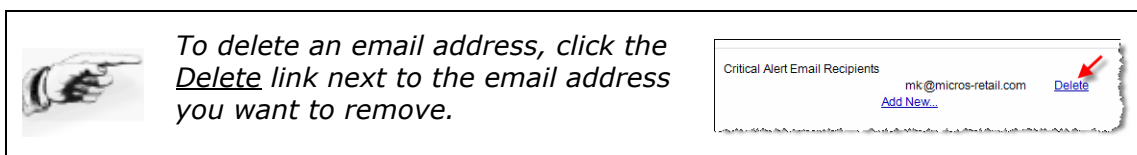


Figure 10-11: Critical Alert Email & Threshold Settings

4. When prompted, enter the recipient's email address and click **Save**.
The email address is displayed on the screen and persisted to the database.



See ["Alert Console" on page 237](#) for more information about critical alerts.

Alert Threshold Settings

Use the Thresholds Settings feature to manage system-wide alert threshold settings in your organization.

To Define Alert Threshold Settings

Perform the following steps to define the threshold settings for alerts.

1. From the Xadmin menu, select **Support Tools --> Alert Settings**.
2. At the Alert Settings page, click **Thresholds Settings**.
3. The alert preferences screen shows all alert types and their current thresholds. Edit the values as needed and click **Save**.

The screenshot shows the Xadmin interface with the 'Alert Settings' page selected. Under 'Threshold Settings', there are two sections: 'Replication' and 'Connectivity'. Each section has a table with columns for MEDIUM, HIGH, and CRITICAL severity levels. The values are currently set to 3, 5, and 10 respectively. A 'Save' button is visible at the top right of the settings area.

	MEDIUM	HIGH	CRITICAL
Xcenter	3	5	10
Repl Crash	3	5	10
RepQ Read	3	5	10
RepQ Process	3	5	10
RepQ Block	3	5	10

	MEDIUM	HIGH	CRITICAL
Locate Error	3	5	10

Figure 10-12: Alert Preferences Screen

About Alert Severity Threshold Levels

- Alert type severity threshold levels include **Medium**, **High**, and **Critical** options. See [“Alert Console” on page 237](#) for more information about the alert types.

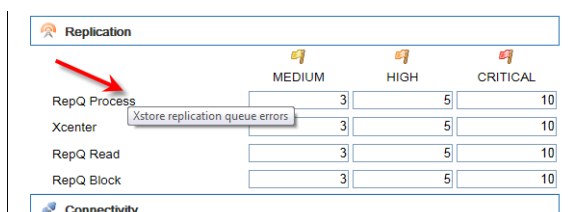
The diagram shows three input fields for MEDIUM, HIGH, and CRITICAL severity levels. The values are 3, 5, and 10 respectively, indicating that the threshold for a higher severity level must be greater than or equal to the threshold for a lower severity level.



There is no column for LOW threshold because Low is always considered to be 0. If there is even one alertable event, the severity must at least be considered Low.

- When setting the alert severity threshold values, the relative magnitude values between alert levels must be respected, (i.e. Critical level cannot be lower than High level).

- To see the alert type description, use the mouse to hover over the alert type label.



- When an alert type value is changed, a web service call sends the alert value to the `cfg_alert_severity_threshold` table.
- Changes to a critical alert threshold are not retroactive.

For example, consider the scenario where there have been 10 "register offline" events, and the critical alert threshold for "register offline" is 20. If the critical alert threshold is changed to 5, a critical alert email will not be sent until the next "register offline" event occurs (#11). So in this scenario, when the 11th "register offline" event occurs, a critical email will be sent.

- A system-wide configuration parameter defines the start of a business day in hours past GMT 00:00. See ["Xadmin Configuration" on page 27](#) for more information about this configuration option.

Support Settings: Technical Information

xcenter.properties

Table 10-1: *xcenter.properties* Information

Setting	Valid Values	Description
dtv.xadmin.smtp.host	String	The email host name.
dtv.xadmin.smtp.port	Integer	The email port name.
dtv.xadmin.smtp.auth	Boolean	If true, Xstore will make secure SMTP connections (smtps) for email operations. This usually requires a user name and password (DefaultMailUser & DefaultMailPassword). If false, Xstore will use unsecured SMTP connections (smtp) for email operations, and username and password will be ignored.
dtv.xadmin.smtp.user	String	Username to use if making secure SMTP connections.
dtv.xadmin.smtp.password	String	Password to use if making secure SMTP connections.
dtv.xadmin.smtp.sender	String	The email sender.

Table 10-1: *xcenter.properties* Information (continued)

Setting	Valid Values	Description
dtv.xadmin.support.criticalAlertEmails.enabled	Boolean	True or false.

cfg_critical_alert_email Table

This table contains the Xadmin support dashboard critical alert email recipient address information.

Table 10-2: *cfg_critical_alert_email* Table

Column	Valid Values	Description
cfg_critical_alert_email.organization_id	Integer	Organization ID
cfg_critical_alert_email.email_address	Varchar(60)	Critical alert email address
cfg_critical_alert_email.create_date	Datetime	Create date
cfg_critical_alert_email.create_user_id	Varchar(30)	Create User id
cfg_critical_alert_email.update_date	Datetime	Update date
cfg_critical_alert_email.update_user_id	Varchar(30)	Update user id

ctl_event_log Table

Table 10-3: *ctl_event_log* Table

Column	Valid Values	Description
ctl_event_log.arrival_timestamp	Datetime	The arrival time of the event log database record into Xcenter.

cfg_alert_severity_threshold Table

See the *Xadmin Database Dictionary* for more information.

Deployed Xstore Versions

The **Deployed Xstore Versions** feature shows Xstore version information by store in a pie chart format. The store's primary register is responsible for reporting the version of the store to Xadmin (`ctl_device_registration.primary_register_flag = True`). The size of each section of the chart is proportional to the corresponding number of stores running the Xstore version.



Due to rounding, the totals shown on the Version Information charts may not add up to 100%.

You must have the **Deployed Xstore Versions** privilege to use this feature.

1. From the Xadmin menu, select **Support Tools --> Deployed Xstore Versions**, or click the [Deployed Xstore Versions](#) link in the **Support Tools** panel.
2. The Deployed Xstore Versions by Store page displays.

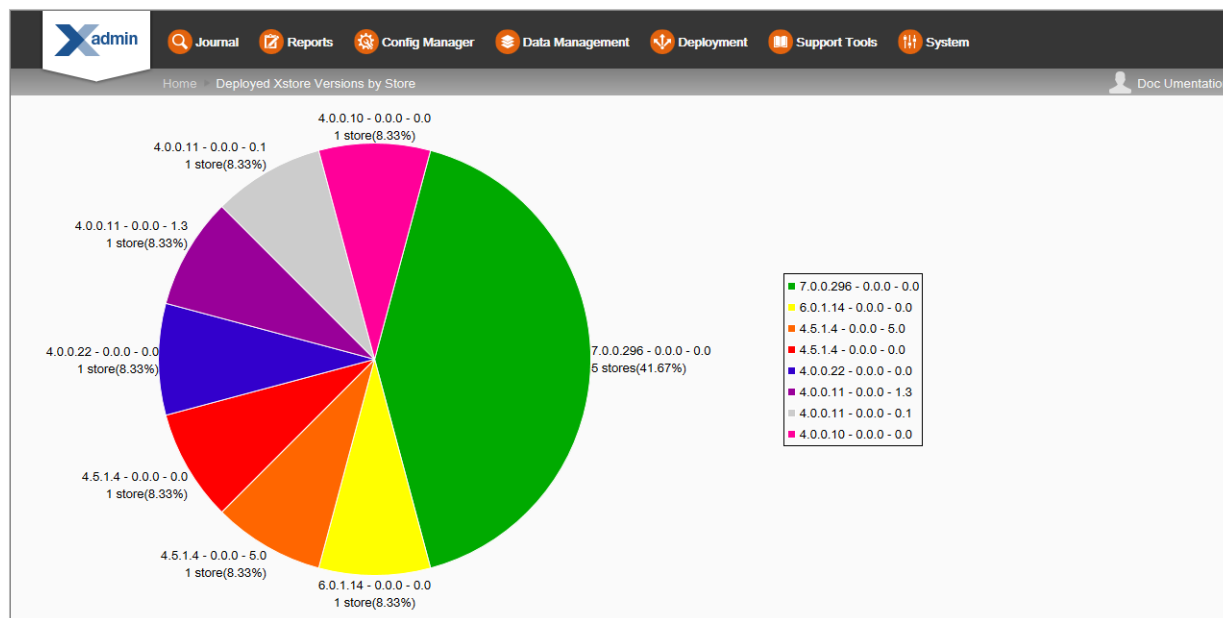
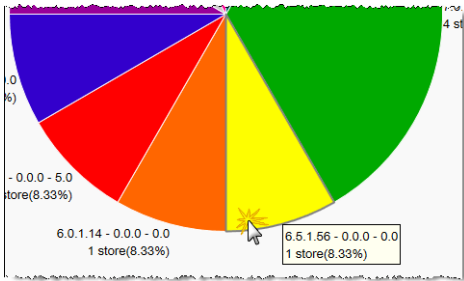


Figure 10-13: Deployed Xstore Versions by Store Page

This chart shows the Xstore versions currently running in the stores in your organization.

- ❑ Each Xstore version is shown as a color-coded section of the chart.
- ❑ The key to the right of the chart indicates the Xstore versions included on the chart, and which color represents each version.
- ❑ The percentage of stores in your organization running each version of Xstore is shown below the version number.
- ❑ The most-recent Xstore version is shown in the green section of chart, located on the right side of the chart. (Version 7.0.0.296 - 0.0.0 - 0.0 in this example).

- ❑ Using the mouse, hover over a section of the chart to display the Xstore version and percentage of stores running the version compared to all stores.
- ❑ To view additional detail, select a section of the chart and click on it. See [Xstore Version by Store Detail](#) below.



Xstore Version by Store Detail

The detailed information available by clicking on a section of the chart shows the Store Name, Retail Location ID, Phone Number, and Address.

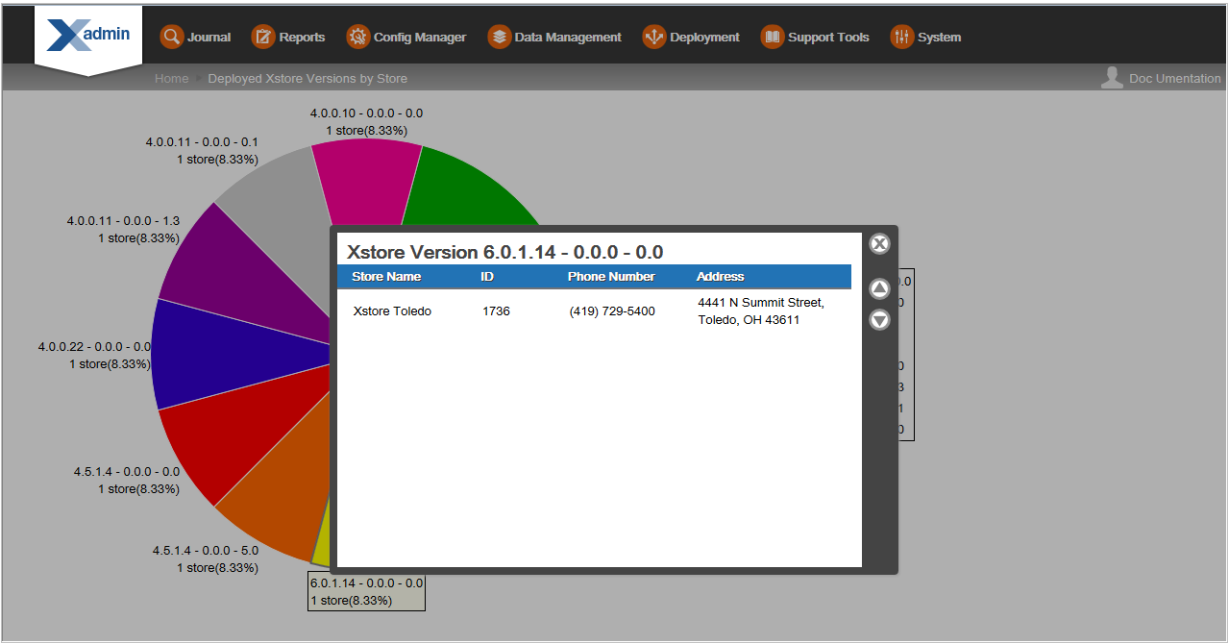


Figure 10-14: Xstore Version by Store Detail

- Use the Up and Down arrows  to view detail about the chart section above and below the currently selected section.
- To close the Detail window, click the **Close**  button.
- If needed, a scroll bar is provided on the right side of the window.

PosLog Publisher

The PosLog Publisher feature provides the ability to compile the PosLog data from within Xadmin and save it as a file to a specified location. This allows you to manage this information centrally, without having to connect remotely to stores. Xcenter data can be generated for an org node, store, or only specific registers within a store, for a specific date range.

1. From the Xadmin menu, select **Support Tools --> Publish PosLog Data**, or click the [Publish PosLog Data](#) link in the **Support Tools** panel.
2. At the PosLog Search page, enter search criteria to find the PosLog data, then click **Search**.

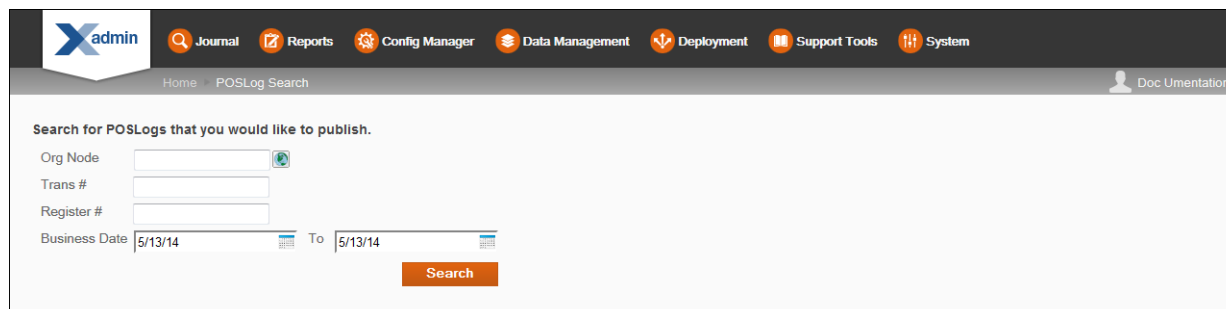


Figure 10-15: PosLog Search Page

- ☐ **Org Node** - The org node, selected from the drop-down list. [**REQUIRED**]
 - ☐ **Trans #** - The transaction identifier.
 - ☐ **Register #** - The register identifier.
 - ☐ **Business Date** range - The transaction date range. [**REQUIRED**]
3. The Search Results page displays the summary results of the search. The maximum number of results returned by the search is controlled by configuration.

See also: *POSLog Publish Max Search Results and Number of Records in POSLog Publisher Result Page* configuration options in [Chapter 3, "System Settings" on page 26](#) for more information about these configuration settings.

The PosLog Publisher Search Results page layout will vary depending on the Xadmin configuration setup for PosLog Publisher. See [“PosLog Publisher Search Results Page Layout Examples” on page 257](#) for additional information about the search results page options.

Trans #	Type	Register #	Store #	Date	
2	SYSTEM_OPEN	1	101	Apr 21, 2014	☒
5	TENDER_CONTROL	1	101	Apr 21, 2014	☒
6	WORKSTATION_OPEN	1	101	Apr 21, 2014	☒
7	TIMECLOCK	1	101	Apr 21, 2014	☒
8	EXCHANGE_RATE	1	101	Apr 21, 2014	☒
9	RETAIL_SALE	1	101	Apr 21, 2014	☒

Figure 10-16: Search Results Page - Summary View



*If no transactions match your search criteria, Trans Count will show **No results found**.*



Click "PosLog Search" in the navigation breadcrumb to return to the PosLog Search page.



By default, all transactions returned in the search are selected as indicated by the check mark ☒ in the right-most column.

You have the following options available to indicate which PosLogs are to be published:

- ☐ If applicable, select the group from the *View More POSLogs* drop-down list to view more PosLogs.
- ☐ To select a small sub-set of transactions, un-check the header check box to remove the check marks, then select each transaction on this page to be published.
- ☐ If you want to publish most of the transactions on the page, selectively un-check the transactions you do not want to publish.



4. Actions on this page include **Publish** and **Publish All**:
 - ☐ Click **Publish All** to publish all transactions returned by the search, up to the maximum search results limit. This option overrides any selective changes you may have made to the check marks in the right-most column.
 - ☐ Click **Publish** to publish the transaction or transactions you selected on the page.
5. When prompted, select the target from the list of targets available for publishing and rebroadcasting:

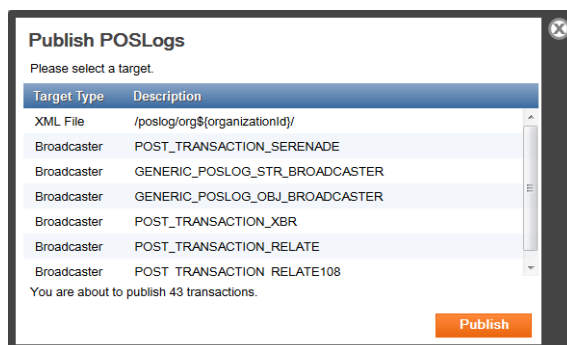
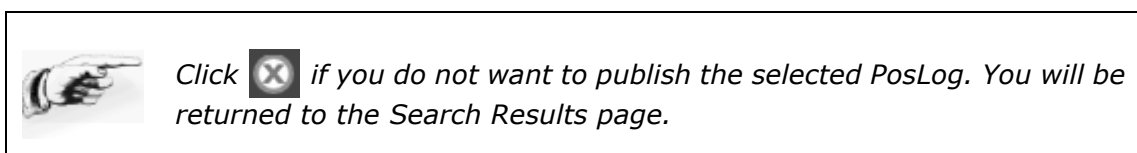


Figure 10-17: Publish PosLogs Target Prompt

- ☐ Publish the PosLog data from within Xadmin and save it as an XML file to the specified directory configured in *Published POSLog Directory*. See ["Xadmin Configuration" on page 27](#) for more information about specifying the directory where the published PosLog file will be saved.
- <OR>
- ☐ Publish the PosLog data to the Broadcaster system in Xcenter through Web services.



6. Click **Publish**.
7. At the confirmation prompt, click **OK** to close the window.

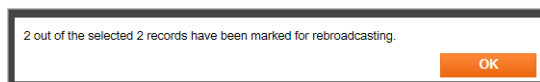


Figure 10-18: Rebroadcasting Example

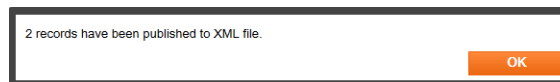


Figure 10-19: Xml File Example

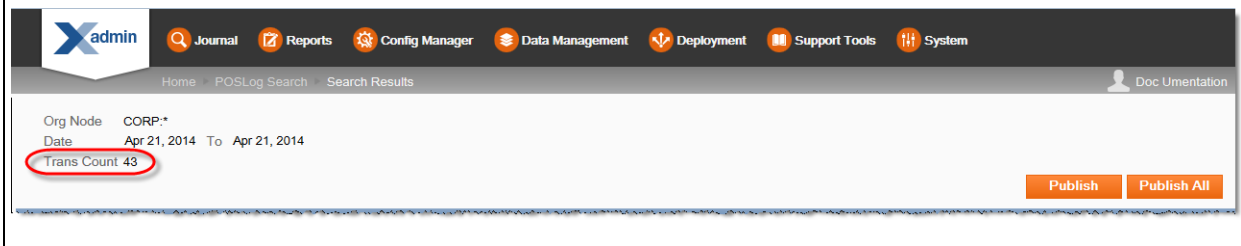
PosLog Publisher Search Results Page Layout Examples

The PosLog Publisher Search Results page layout will vary depending on the Xadmin configuration setup for PosLog Publisher. The following examples show the different page layouts based on the following configuration settings:

- **Number of Records in POSLog Publisher Result Page = 100**
- **POSLog Publish Max Search Results =1000**

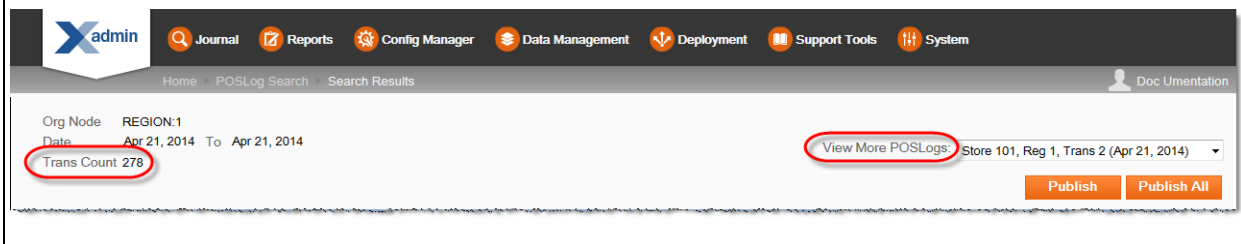
Example 1: Trans Count < 100, Search Results <1000

You will see these results since the transaction count of 43 is less than 100. In this example, both the number of records shown per page (up to 100) and the maximum search results limit (up to 1000) have not been reached.



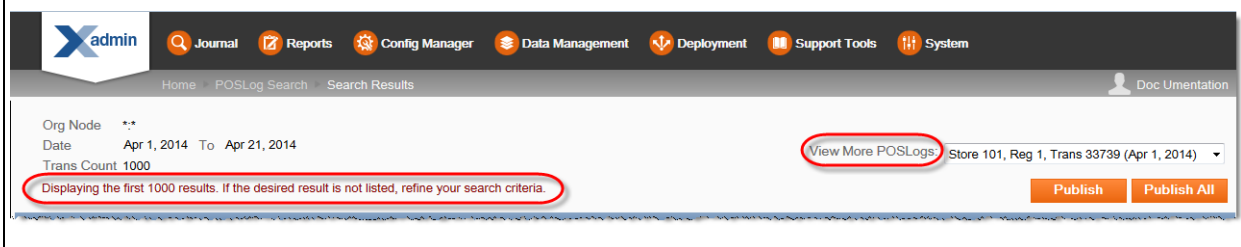
Example 2: Trans Count > 100, Search Results <1000

In this scenario you will have the option to *View More Poslogs* since the transaction count exceeds the limit of 100 records shown per page, but is less than the maximum search results limit of 1000.



Example 3: Trans Count > 100, Search Results >1000

In this scenario you will have the option to *View More Poslogs* since the transaction count exceeds the limit of 100 records shown per page. Also, a message displays indicating the maximum search results limit of 1000 has been exceeded. If the desired result is not listed in the *View More PosLogs* drop-down list, you must refine your search criteria and search again.



Replication Status

The Replication Status page shows ERROR status information related to the `rpl_replication_data` table.

1. From the Xadmin menu, select **Support Tools --> Replication Status**, or click the **Replication Status** link in the **Support Tools** panel.
2. At the Replication Status page, the first 500 results are displayed automatically:
 - ☐ If the desired result is not listed, go to step 3 below to refine your search criteria.
 - ☐ If the desired result is listed, skip to step 5 below.

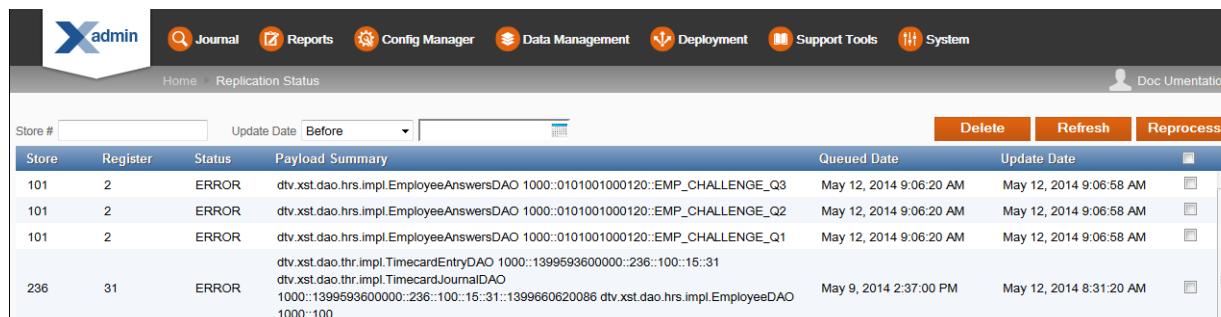
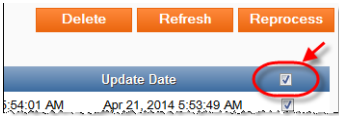


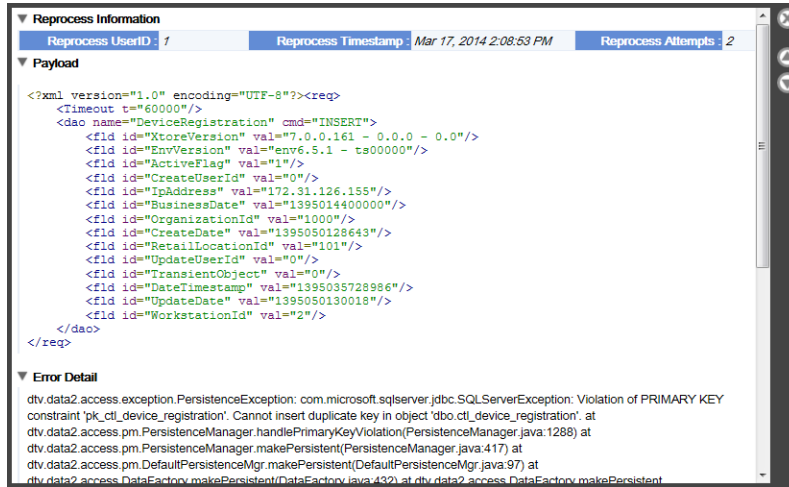
Figure 10-20: Replication Status Page

3. To search for replication failures based store IDs and/or last update date, complete the following fields as needed:
 - ☐ **Store #** - Enter/select the store number.
If specified, the application only accepts valid store number inputs. A validation error will display if the specified store number is invalid.
 - ☐ **Update Date** - From the drop-down list, select "Before", "After", or "Equal to", then select or enter a date.
The update date criterion will be ignored if the input is not valid. Future dates are considered invalid.
4. Click **Refresh**.
The records in the data table are sorted by update date (the last modified date) by default. To reorder the list, click on a column header.
5. With a record displayed you have the following options:
 - ☐ **Delete** - Select the check box associated with the record (or records) and click the **Delete** button to delete the selected replication error. When prompted, click **Yes** to confirm you want to delete the record. Click **OK** to close the confirmation box.
 - ☐ **Reprocess** - Select the check box associated with the record (or records) and click the **Reprocess** button to reprocess the replication error record(s). When prompted, click **Yes** to confirm you want to reprocess the record(s). Click **OK** to close the confirmation box.

 To select all records at once, click the check box in the table header.



- ❑ **View** - Click a record to view the detail information about the selected record.



Reprocess Information

Reprocess UserID : 1	Reprocess Timestamp : Mar 17, 2014 2:08:53 PM	Reprocess Attempts : 2
----------------------	---	------------------------

Payload

```
<?xml version="1.0" encoding="UTF-8"?><req>
  <Timeout t="60000"/>
  <dao name="DeviceRegistration" cmd="INSERT">
    <fld id="XstoreVersion" val="7.0.0.161 - 0.0.0 - 0.0"/>
    <fld id="EnvVersion" val="env6.5.1 - ts000000"/>
    <fld id="ActiveFlag" val="1"/>
    <fld id="CreateUserId" val="0"/>
    <fld id="IpAddress" val="172.31.126.155"/>
    <fld id="BusinessDate" val="1395014400000"/>
    <fld id="OrganizationId" val="1000"/>
    <fld id="CreateDate" val="1395050128643"/>
    <fld id="RetailLocationId" val="101"/>
    <fld id="UpdateUserId" val="0"/>
    <fld id="TransientObject" val="0"/>
    <fld id="DateTimestamp" val="1395035728986"/>
    <fld id="UpdateDate" val="1395050130018"/>
    <fld id="WorkstationId" val="2"/>
  </dao>
</req>
```

Error Detail

```
dtv.data2.access.exception.PersistenceException: com.microsoft.sqlserver.jdbc.SQLServerException: Violation of PRIMARY KEY
constraint 'pk_ctl_device_registration'. Cannot insert duplicate key in object 'dbo.ctl_device_registration'. at
dtv.data2.access.pm.PersistenceManager.handlePrimarykeyViolation(PersistenceManager.java:1288) at
dtv.data2.access.pm.PersistenceManager.makePersistent(PersistenceManager.java:417) at
dtv.data2.access.pm.DefaultPersistenceMgr.makePersistent(DefaultPersistenceMgr.java:97) at
dtv.data2.access.DataFactory.makePersistent(DataFactory.java:432) at dtv.data2.access.DataFactory.makePersistent
```

Figure 10-21: Record Detail Window

The following information is shown in the Record Detail window:

- **Reprocess Information** - (Populated when applicable) This section shows the ID of the user who reprocessed the record, the last reprocess date and time, and the total number of reprocess attempts.
- **Payload** - This section shows the entire contents of the replication data sent by an Xstore register.
- **Error Detail** - This section shows the technical details (like a java stack trace) of the error.

 See the Xstore Implementation Guide for more information about replication.

About Deployments

Overview

This chapter explains how deployments are created and tracked by Xadmin and applied by Xstore and Xenvironment.

To allow corporate users to easily maintain store systems, Xadmin provides the ability to deploy changes directly to retail locations or sets of retail locations. A deployment consists of a file, or set of files, and information dictating how and when it will be processed. Deployments may include Dataloader download files, configuration jar files, debit bin files, encryption cipher files, or update jar files. See [Appendix D: "Glossary" on page 283](#) for additional details about these types of files.

In this appendix, the file, or files, that will be deployed are referred to as **deployment files**. In addition to these deployment files, a deployment includes information that allows for precise distribution to the desired target group. This information includes the locations within the hierarchy that will receive the deployment, the date upon which they will be notified of its availability, when they should begin to download it, and when they should apply it.

Application Roles

Xadmin

Xadmin provides an interface for creating deployments. The Configuration Manager and Data Management features are used to create configuration and data changes, and can also be used to upload files of supported types to be included in deployments. Functionality for automatically creating deployments for files that are placed in a location on the file system using header information to determine the target group and target application date is also provided.

Whenever a deployment is created, Xadmin is responsible for saving the deployment details in the form of a manifest and uploading any deployment files to the Apache file server. Once a deployment is created, its status can be monitored in real-time using Xadmin's Deployment Viewer feature.

Xcenter

Xcenter assumes two critical roles in the deployment process: responsibility for communicating deployments to stores, and responsibility for accepting status-related feedback pertaining to those deployments.

When a store queries for any available deployments, Xcenter assembles a package that includes deployment manifests for deployments that haven't yet been acknowledged as having been received, and connectivity details for the Apache server that is hosting the files related to those deployments.

It also receives and stores status feedback from the store systems when the manifest for a deployment has been received successfully, when a deployment has been downloaded, and when a deployment has been applied.

Xstore

The downloaded deployments from Xenvironment are applied to **Xstore**.

Xenvironment

Xenvironment is responsible for querying Xcenter for new deployments and then downloading and applying deployments. It is responsible for forwarding the details of the deployment to the Xenvironment lead, retaining the details pertaining to it, downloading any necessary deployment files, and properly applying those files. It also reports the status of each of those steps back to Xcenter so that the status of each deployment can be tracked in real-time from Xadmin.

Apache (httpd)

Apache is an HTTP server that hosts deployed files so they can be retrieved for application on store systems. When a deployment is initiated from Xadmin, files are uploaded to it and stored for later retrieval by Xenvironment.

DataLoader

DataLoader is responsible for applying any Configuration Manager changes that impact the database, and any other DataLoader download files that have been deployed to stores. It translates data changes from delimited text to database table data.



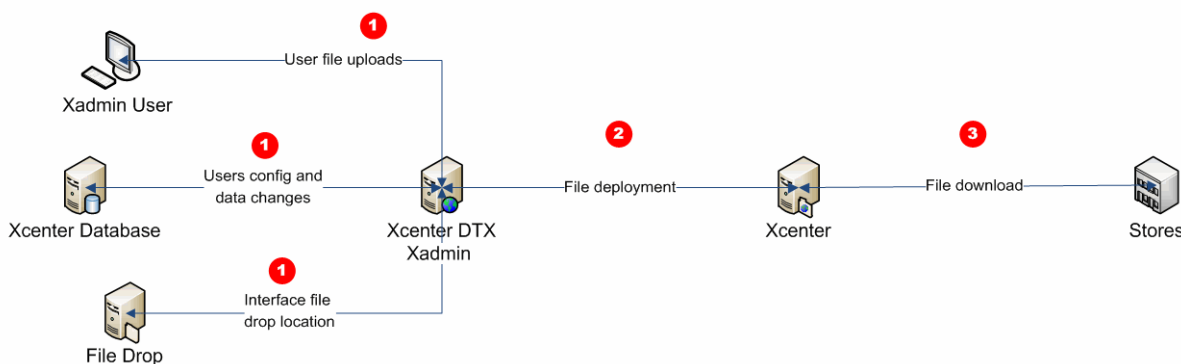
When you make changes in Data Manager and deploy them, they automatically update the Xcenter database. There is no DataLoader file created and no DataLoader processing necessary. The Xcenter database is updated directly. If anything fails, it can be found in the Xcenter or Xadmin log file.

Overview: How Files Are Managed

Xadmin's file management capabilities can be used to transfer files to and from the store and corporate environments. Xcenter file management transfers only files required by the Xstore Suite.

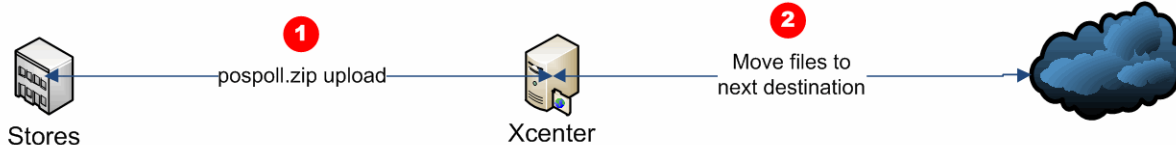
The file management capabilities in Xcenter leverage the Apache Web Server for file downloading and posting.

File Download to Stores



- Multiple incoming channels are used to target file deliveries to stores: file uploads and configuration changes made through the Xadmin UI and files dropped by external systems.
- Xenvironment retrieves deployments during closing and on a scheduled interval throughout the day. A back office menu option within Xstore can also be used to check for updates.
- Feedback on deployments is published to Xcenter and can be reviewed in Xadmin.

File Upload from Stores



- Xenvironment collects logs from in-store systems (pospoll.zip) and uploads to Xcenter.
- The files are left in a configurable directory location.
- A customer-specific script can be written to retrieve files from Xcenter in order to move files to their next destination. That process is not provided as part of the Xstore Suite.

Overview: About The Deployment Manifest

The deployment manifest is an XML-encoded representation of the deployment file and contains instructions Xenvironment uses for handling the deployment files. The manifest contains no configuration information itself, and is simply a set of instructions to be used by Xenvironment.

Sample Deployment Manifest

```
<?xml version="1.0" encoding="UTF-8"?>
<deploymentManifest xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:noNamespaceSchemaLocation="DeploymentManifest.xsd">
  <deployment-id>12345</deployment-id>
  <deployment-manifest-version>1</deployment-manifest-version>
  <updates>
    <update>
      <relative-url>/path-to-file</relative-url>
      <type>APPUPD</type>
      <download-priority>IMMEDIATE</download-priority>
      <apply-priority>STORE_CLOSE</apply-priority>
      <file-hash>asdadadasdasd</file-hash>
    </update>
    <update>
      <relative-url>/path2</relative-url>
      <type>DEBITBIN</type>
      <download-priority>IMMEDIATE</download-priority>
      <apply-priority>IMMEDIATE</apply-priority>
      <file-hash>hashhashhash</file-hash>
    </update>
  </updates>
</deploymentManifest>
```

deployment-id - The numeric deployment ID from Xcenter. May be included twice:

- Once on the manifest (generated by Xadmin)
- And once - [OPTIONAL] - on each update

deployment-manifest-version - The version of the deployment manifest.

updates

- ❑ `relative-url` - The relative path to download the update from. The path is relative to the URL specified in configuration.
- ❑ `type` - Enumeration values include: CONFIG, APPUPD, DATA, COMPRESSED_DATA, CIP, and DEBITBIN.
- ❑ `download-priority` - STORE_CLOSE = Download during the close, IMMEDIATE = Download immediately.
- ❑ `apply-priority` - STORE_CLOSE = Wait until the store close to apply, IMMEDIATE = apply immediately
- ❑ `file-hash` - The MD5 hash of the file being downloaded.

Notes:

- If Xenvironment receives configs/manifests on a nonlead, they will be forwarded to the lead.
 - If Xenvironment receives a manifest during the close:
Xenvironment will not attempt to process IMMEDIATE deployments while a close is in progress. They will be processed after the close has completed.
The manifest data will be saved to disk.
The IMMEDIATE deployments will be processed sometime after the close has completed.
The STORE_CLOSE deployments will be processed during that close if the manifest is sent before that point in the close, otherwise they will wait until the next close.
 - A RSS feed named 'immediate' is used for the immediate deployments.
-

Examples: Deployment Scenarios

Deploying an Uploaded File

1. A file of a supported type is uploaded via the Xadmin File Upload feature.
 - ❑ Supported files include Dataloader download files, configuration jar files, debit bin files, encryption cipher files, and update jar files.
 - ❑ The file is stored on the Xadmin server so that it can be deployed.
2. A file is deployed using the deployment functionality in the File Upload feature.
 - ❑ A deployment manifest is created and stored.
 - ❑ The file is uploaded to Apache.
3. The deployment is downloaded and applied at each applicable store. See ["How a Deployment is Downloaded and Applied" on page 266](#) for more details.

Deploying a Data Manager Change

1. A data change, or set of data changes, is made within Xadmin's Data Manager feature.
2. The deployment function within the Data Manager feature is used to schedule a deployment of the session.
 - ❑ A deployment manifest is created and stored.
 - ❑ An update zip file containing a Dataloader download file with the changes made in the Data Manager session is created and uploaded to Apache.
3. The deployment is downloaded and applied at each applicable store. See ["How a Deployment is Downloaded and Applied" on page 266](#) for more details.

Deploying a Configuration Manager Change

1. A configuration change is made in Xadmin's Configuration Manager feature.
 - ❑ Changes can be made at a Master Profile (Global) level, at a more granular Profile Group/Profile Element level, or at a Store-Specific level.
2. A deployment of the configurations is scheduled via the Configuration Manager.
 - ❑ The configuration change is versioned. See ["Version Tracking of Deployments" on page 266](#).
 - ❑ A deployment manifest is created and stored.
 - ❑ An update zip file is created and uploaded to Apache.
 - If XML configuration changes are included, they will be transmitted in the form of a jar file containing all XML configuration changes for all profiles.
 - If data configuration changes are included, they will be transmitted in the form of a DataLoader download file including data changes for the target profile.
3. The deployment is downloaded and applied at each applicable store. See ["How a Deployment is Downloaded and Applied" on page 266](#) for more details.
4. The Master Profile (Global) and any assigned Profile Group/Profile Element details are represented on the store system as configuration path entries (for example, Profile Group: COUNTRY/Profile Element: CANADA would be represented as :COUNTRY/CANADA), and determine which of the configurations in the configuration jar apply to the location.

Deploying a File Automatically

1. A Dataloader download file, including header details that describe the deployment target area and deployment date, is placed in an automatic deployment location on the Xadmin server.
2. Xadmin automatically detects the presence of the file and creates a deployment for it, using the provided target details to target the appropriate systems on the appropriate date.
 - ❑ A deployment manifest is created and stored.
 - ❑ The download file is uploaded to Apache.
3. The deployment is downloaded and applied at each applicable store. See ["How a Deployment is Downloaded and Applied" on page 266](#) for more details.

Version Tracking of Deployments

Xadmin creates and tracks version numbers for each set of configurations that are deployed at the Master Profile (Global) level, at a more granular Profile Group/Profile Element level, or at a Store-Specific level.

1. When a configuration change is saved to a profile (this could be Master/Default, a specific profile element, or a store-specific profile), a version number is assigned to the change.
 - a. Version numbers start at 1 and increment by 1. 1 is the first version for a profile element, 2 is the second version, etc.
 - b. Additional changes made to the same profile will continue to accumulate with the same version number until deployment for the profile is scheduled.
2. When deployment for a profile is scheduled, the current profile version is “locked” to ensure that no new changes can be made to the version.
3. After a profile version is locked, new changes made to the profile will use a new version number. If version 3 of a profile was locked, new changes will be assigned to version 4 up until the point where deployment for profile version 4 is scheduled.

How a Deployment is Downloaded and Applied

1. Xenvironment queries Xcenter for any open deployments at a fixed interval.
2. When Xenvironment receives deployment details, it processes them in an appropriate manner.
 - ☐ An update message is sent to Xcenter to indicate that each manifest has been successfully received.
 - ☐ Connectivity details are stored so they can be used to download deployed files.
3. Xenvironment stores each deployment either for immediate download or download during the closing process.
 - ☐ If a deployment is scheduled for immediate download, Xenvironment will begin to download the file immediately.
 - ☐ If a deployment is scheduled for download during the close, Xenvironment will wait until the nightly closing process is initiated to begin downloading the file.
4. Xenvironment applies each downloaded deployment at the appropriate time.
 - ☐ If a deployment is scheduled to be applied immediately (applies to MNT files, DAT files, and application updates only), Xenvironment executes the jar. (DataLoader is not used to apply immediate application updates).



Xenvironment will stop Xstore before applying an immediate application update, but it is the responsibility of the code within the jar file to restart Xstore, not Xenvironment.

- ❑ If a deployment is scheduled to be applied during the closing process, it will be handled properly during that process.
 - Dataloader download files are applied via the Dataloader on the lead Xenvironment register.

If the download data was provided by any feature other than the Configuration Manager, it is loaded into the DB.

If the download data was provided by the Configuration Manager, it is loaded into the DB only if the system's configuration path includes the associated profile.
 - Update jar files are applied by distributing them to each system and executing them.
 - Encryption cipher files are applied by distributing them to each system.
 - Debit bin files are applied by distributing them to each system.
 - Configuration Manager jar files are applied by distributing them to each system.

Deployment: Basic Troubleshooting

Deployments are not being uploaded successfully to Apache

When a deployment cannot be uploaded successfully to Apache, the cause will typically be one or more of the following four issues. See the `xcenter-admin.log` and `server.log` files on the Xadmin server to determine which of the issues is the cause for the failure.

1. The Apache URL configured in the `xcenter.properties` file is incorrect.
2. The Apache credentials configured in the `xcenter.properties` file are incorrect.
3. The SSL certificate for the Apache server is not located in the truststore file in the `xcenter-config\res\ssl` folder.
4. The Apache server cannot be reached from the Xadmin system.

Deployments are not being downloaded and applied by Xenvironment

When Xenvironment is unable to download a deployment from the Apache server, the cause will typically be one or more of the following three issues. See the environment's `process.log` file to determine which of the issues is the cause for the failure.

1. The URL provided in the manifest cannot be reached from the store.
2. The SSL certificate needed to communicate with the Apache server is not present in the `trusted.ca-bundle` file.
3. The Xenvironment role of one or more of the registers in the store is incorrectly configured.

Deployments are being downloaded and applied by Xenvironment, but no status information appears in Xadmin

When Xenvironment is unable to transmit status information to Xcenter, the cause is typically related to the `DataSourceConfig` file's Xcenter DataSource not including a `GetUpdates` context path. Confirm that this path is present and accurate, and add it if it is missing.

Personality Maintenance & Config Paths

Overview

This appendix explains how the store personalities set up in Xadmin are used to create the config path properties. See [Chapter 4, "Profile Management" on page 34](#) for more information about setting up store personalities.

Config Path Retrieval Process

The system property `dtv.update.config.path.from.Xcenter` is the master switch for the retrieval process.

- If set to true (default), an attempt will be made to contact Xcenter to obtain the values of the properties `dtv.config.path` and `dtv.base.config.path`.
- If set to false, Xstore will use its current values. (See ["If Not Using Xcenter to Get the Config Path" on page 272](#)).

When set to true

In **Xcenter**, a servlet ("config path servlet") handles requests for the config path from Xstore.

In **Xstore**, the following property in `DataSourceConfig.xml` for the "Xcenter" data source indicates the context path for the servlet.

```
<Property key="GetConfigPathPath" value="/xcenter/configpath/GetConfigPath"/>
```

In conjunction with the Xcenter host name and port, the property value indicates the URL to contact to get the config path values.

At Xstore Startup

When Xstore starts, it sends a request to the URL that contains parameters indicating the organization ID, store number, and workstation ID of the machine that is sending the request. (See [“Config Path Retrieval Process” on page 268](#)).

In Xcenter, the config path servlet looks up the store personality based on those parameters and assembles the config path properties from the assigned personality and landscape. The response from Xcenter contains a serialized Java Properties object that contains the appropriate values.



If no personality and landscape are assigned to the store, then the specific properties will not be present. Note that in this case, blank values will be used for the `dtv.config.path` and `dtv.base.config.path` properties.

Once the property values from Xcenter are obtained, they are compared to the existing values from the `configPath.properties` files. If either of the property values from Xcenter are different than the property values from the file, the values from Xcenter will be written to the `configPath.properties` file, the `last.updated.date` property will be set to the current date and time, and Xstore will shut itself down and be restarted by the wrapper.

Till/Register Data

Also during the startup process, till/register data from Xcenter is synchronized with Xstore's lead register. Any till/register data that was updated on the store primary is also updated on other workstation databases when the nightly backup and restore process occurs (in an off-line scenario). With this process, it is no longer necessary to manually run till/register setup scripts before starting up the lead register.

Processing Overview

1. Xstore starts up on the lead register or store primary.
2. During the startup process Xstore compares the till/register data from Xcenter and synchronizes the data on the store primary.

The following data objects are synchronized:

- ☐ Store record
- ☐ Tax location mapping record
- ☐ Corresponding org hierarchy records
- ☐ Workstation records
- ☐ Tender repository records (till and register records)
- ☐ Inventory buckets
- ☐ Inventory location buckets

Xcenter Config Path Properties Assembly

This section explains how the `dtv.config.path` and `dtv.base.config.path` properties are assembled within Xcenter.

`dtv.base.config.path`

This property represents the base features in Xstore that can be enabled or disabled, such as customer loyalty.

The store number is looked up in the [cfg_store_personality](#) table. The `personality_id` from that table is used to look up the actual personality in the [cfg_personality](#) table.

The [cfg_personality_base_feature](#) table contains the base features that have been enabled. The value in the `feature_id` column is the actual config path element that is used to enable the feature. Therefore, to build the value of the `dtv.base.config.path` property, the rows from the base feature table are sorted by the `sort_order` column and concatenated into one string with each feature preceded by a colon (:). The resulting string becomes the value of the `dtv.base.config.path` property. An example of a complete property value is:

```
dtv.base.config.path=:cust/loyalty:cust/loyalty/award:cust/registry
```

`dtv.config.path`

This property represents all of the overrides that should be considered for a given workstation in a given store. Building this property is a little more complicated than the "base" version described above. In order to build the value, both the personality and the landscape must be consulted.

First, the personality that was looked up above is used to obtain the profile groups and elements that make up the personality. These are contained within the [cfg_personality_element](#) table. The rows in this table are sorted by the `sort_order` column. Then, the list of sorted rows is traversed and the `group_id` and `element_id` from each row are concatenated with a slash (/) and all of these pairings are concatenated into one string with each pairing being preceded by a colon (:).

Second, the landscape is consulted. Any [cfg_landscape_range](#) records that have a range that contains the workstation ID of the requesting system are gathered together and sorted based on the sort order of the profile group in the [cfg_landscape_group](#) table. After the rows have been gathered and sorted, the process is very similar to the personality process described above. The list of sorted range rows is traversed and the `profile_group_id` and `profile_element_id` from each row are concatenated with a slash (/) and all of these pairings are concatenated into one string with each pairing being preceded by a colon (:). The string representing the landscape is appended to the string that represents the personality and the result becomes the value of the `dtv.config.path` property. An example of a complete property value is:

```
dtv.config.path=:COUNTRY/CANADA:SS_STORE/  
202:STORE_TYPE:OUTLET:REG_TYPE:LEAD:RECEIPT_PRINTER/EPSON_TMT88
```

The assembled values are put into a Java Properties object with the keys `dtv.base.config.path` and `dtv.config.path` and that object is sent back to Xstore.

Xstore Config Path Assembly

To keep from modifying the `system.properties` files for installed systems, a file in Xstore holds the `dtv.base.config.path` and `dtv.config.path` properties that were obtained from Xcenter. This file is named `configPath.properties` and it resides in the root xstore directory on an installed register.

When Xstore receives the properties from the Xcenter servlet, it writes the properties to this file along with a status property, `last.updated.date`, that indicates the last time the properties were successfully retrieved from Xcenter.

In the event that a retrieval of the properties fails, an additional status property, `update.failed`, will also be written to this file. This allows a support person to see that the last update failed as well as triggers a pre-flight check in Xstore indicating that updating of the config path from Xcenter failed. The next time that the update succeeds, this property will be removed.

Below, is an example of the contents of a `configPath.properties` file. The comment will also always be written.

```
#The contents of this file are machine-generated. The values were retrieved
from Xcenter and represent the store personality that is defined there for
this store.

#NO MANUAL CHANGES SHOULD BE MADE TO THIS FILE.

#Thu Sep 26 15:00:44 EDT 2013

dtv.config.path=\:COUNTRY/CANADA\:SS_STORE/202\:STORE_TYPE/
RETAIL\:REG_TYPE/LEAD\:HAS_RETURNS/ALL

dtv.base.config.path=\:cust/loyalty\:cust/loyalty/award\:order

last.updated.date=2013-09-26 12-00-43
```

This file is only one piece in building the full config path. Along with the addition of this file, some common (and required) elements of the config path have been promoted to hard-coded, reserved word status. A few new elements have also been added to the base.

The config path elements `base`, `version1`, `MASTER/DEFAULT`, and `version1/patch` no longer appear in any `system.properties` file. They are now added programmatically at the appropriate place in the overall config path. Also, any `dtv.base.config.path` and `dtv.config.path` properties that exist in any `system.properties` will not be used in deference to the same properties from the `configPath.properties` file.

Config Path Assembly Order

The overall config path is assembled as follows:

1. The config element `dtv/res/config`
2. The value of the property `dtv.base.config.path`
3. The config element `base`
4. The value of any property from an included `system.properties` file that contains a config path property with a negative number qualifier, e.g. `dtv.config.path.-37`

5. The config element `version1`
6. The config element `MASTER/DEFAULT`
7. The value of the property `dtv.config.path`
8. The value of any property from an included `system.properties` file that contains a config path property with a positive number, e.g. `dtv.config.path.82`
9. The config element `version1/patch`

All of this is assembled in memory and is never saved anywhere, except as a note in the Xstore log file. The result is the value that will be used as Xstore's config path. While running Xstore, this is still accessible, as it always has been, by requesting the system property `"dtv.config.path"`, i.e. `System.getProperty("dtv.config.path")`.

If Not Using Xcenter to Get the Config Path

If retrieval of the config path from Xcenter is not being used, the config path is still assembled in the same manner outlined above. The difference is that the `dtv.config.path` and `dtv.base.config.path` properties are not retrieved from Xcenter.



- If Xstore ever used Xcenter to obtain the config path, and the `configPath.properties` file contains properties, those properties will continue to be used, even if updating from Xcenter is now turned off. They will no longer be updated from Xcenter.
- If the property `update.failed` is present in `configPath.properties`, Xstore will always generate the pre-flight error indicating that the config path could not be updated from Xcenter, even if updating from Xcenter is now turned off. If the last update failed, and you want to turn off updating from Xcenter, you must manually remove the `update.failed` property from `configPath.properties`.

system.properties Settings

Table B-1: *system.properties*

Setting	Valid Values	Description
<code>dtv.update.config.path.from.Xcenter</code>	true/false	Indicates to Xstore if an attempt should be made to contact Xcenter at startup to obtain the values for the <code>dtv.config.path</code> and <code>dtv.base.config.path</code> properties.

Xadmin Security Settings

Table B-2: *Xadmin Security Settings*

Privilege	Description
CFG_PERSONALITY_MAINTENANCE	Personality maintenance privilege.
CFG_PROFILE_MANAGEMENT	Top Level profile management menu privilege.
CFG_LANDSCAPE_MAINTENANCE	Landscape maintenance privilege.
CFG_PROFILE_GROUPS	This privilege was renamed from ADMN_PROFILE_GROUPS in previous versions.
CFG_STORE_PERSONALITIES	Controls access to the store personality maintenance page.

Resource Bundle Path Consolidation

Resource bundles are loaded based on the config path instead of separate bundle-specific paths. When upgrading to a new Xstore version, move any resource bundle files to a config path location or adjust the config path accordingly.

- Translations (was dtv.pos.i18n.translation)
- Phone numbers (was dtv.pos.i18n.phone)
- Hardware (was dtv.pos.i18n.hardware)
- Help (was dtv.pos.i18n.help)
- Email (was dtv.pos.i18n.email)
- Format display (was dtv.i18n.formatDisplay)

Database Tables

See also: Refer to the *Xadmin Database Dictionary* for a complete list of the Xadmin database tables.

cfg_landscape

Column	Valid Values	Description
organization_id	int (PK)	Store's organization identifier.
landscape_id	int (PK)	A unique identifier for a landscape.
description	string	A description of the store landscape that is assigned by the user.
comments	string	A comment field for more details.

cfg_landscape_group

Column	Valid Values	Description
organization_id	int (PK)	Store's organization identifier.
landscape_id	int (PK)	The unique ID of the landscape that this register range belongs to.
profile_group_id	string (PK)	The profile group ID that this range is assigned to.
profile_group_order	int	Designates the sort order of the groups (profile_group_id) within this landscape. The order affects how the config path is later generated.

cfg_landscape_range

Column	Valid Values	Description
organization_id	int (PK)	Store's organization identifier.
landscape_id	int (PK)	The unique ID of the landscape that this register range belongs to.
profile_group_id	string (PK)	The profile group ID that this range is assigned to.
range_seq	int (PK)	The sequence number of the range for the landscape.

Column	Valid Values	Description (continued)
profile_element_id	string	The profile element ID that this range is assigned to.
range_start	int	The start of the register range.
range_end	int	The end of the register range (if only one register is in the range, then this will be the same as range_start).

cfg_personality

Column	Valid Values	Description
organization_id	int	Store's organization identifier.
personality_id	int	A unique identifier for a store's personality.
description	string	A description of the personality that is assigned by the user.
comments	string	A comment field for more details.

cfg_personality_element

Column	Valid Values	Description
organization_id	int	Store's organization identifier.
personality_id	int	The unique ID of the personality that this personality profile belongs to.
element_id	varchar(60)	The profile element ID with which this personality is associated.
group_id	varchar(60)	The profile group ID with which this personality is associated.
sort_order	int	The order of elements in the list that will be followed when generating the new configuration path for the store that is assigned to this personality.

cfg_store_personality

Column	Valid Values	Description
organization_id	int	Store's organization identifier.
personality_id	int	The unique ID of the personality that this personality profile belongs to.
landscape_id	int (PK)	The unique ID of the landscape that this register range belongs to.

cfg_personality_base_feature

Column	Valid Values	Description
organization_id (PK)	int	Store's organization identifier.
personality_id (PK)	int	A unique identifier for a store's personality. An alphanumeric field used to enter the "short name" of the personality.
feature_id (PK)	varchar (200)	A unique identifier for a feature.
sort_order	int	Sort order when displaying code values.

User Interface: Menu Configuration

Overview

The JSF (JavaServer Faces) technology has been removed from the Xadmin application. With the conversion from JSF to GWT (Google Web Toolkit), no new user-modifiable Xadmin settings were added to the application. However, Xadmin can be “personalized” by adding a background image, changing the color scheme, and configuring the panel display order and content.

All menu changes are to data in the `cfg_menu_config` table in the Xadmin database. See [“cfg_menu_config Table” on page 281](#).

The following changes are documented in this appendix:

- [Reports Menu](#)
- [Home Page Menu](#)
- [Security Settings](#)

Reports Menu

The Reports menu (main menu) was restructured as follows:

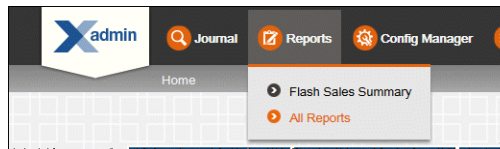


Figure C-1: Reports Menu Expanded

Each report is no longer individually listed under the Reports menu. This was replaced by an "All Reports" option since the reports are now indexed and searchable within the reports feature. However, it is possible to place a reference to a specific report on the Reports menu. To do this, concatenate the report ID with the standard reports menu name inside of the value of the `cfg_menu_config.menu_name` column for the specific report option. Selecting that specific option will then open the reports feature with the specified report pre-selected and the parameter tab for that report displayed.

To Reference a Specific Report on the Reports Menu

Any report that is available within the reports feature can be configured as a specific menu option.

1. In the `cfg_menu_config` table, find the report ID for any report by looking for the record in the "REPORT_VIEWER_MENU" category with a `menu_type` of "ACTION". The `menu_name` for any record meeting those criteria is the report ID.
2. Concatenate the standard reports menu name with the desired report ID and separate the two with the vertical pipe symbol (`|`).

Example:

In the following example, assume you want to add the Daily Cash and Sales Report option to the Reports menu.

- ❑ The `menu_name` for the "All Reports" option is "REPORT_VIEWER". This opens the reports feature with nothing selected.
- ❑ The report ID for the Daily Cash and Sales Report is "DAILY_SALES_CASH_REPORT".

To create the menu option that opens the Daily Cash and Sales Report, concatenate the standard reports menu name (REPORT_VIEWER) with the desired report ID (DAILY_SALES_CASH_REPORT) and separate the two with the vertical pipe symbol (`|`).

The value of the `menu_name` column for the menu option is:

REPORT_VIEWER|DAILY_SALES_CASH_REPORT

Home Page Menu

With the removal of JSF, the Xadmin user interface was updated throughout to have a new look and feel to enhance the user's experience. With this update, the options available on the Home page are completely configurable. Like the main menu, the contents of the Home page are configurable via the `cfg_menu_config` table in the Xadmin database.

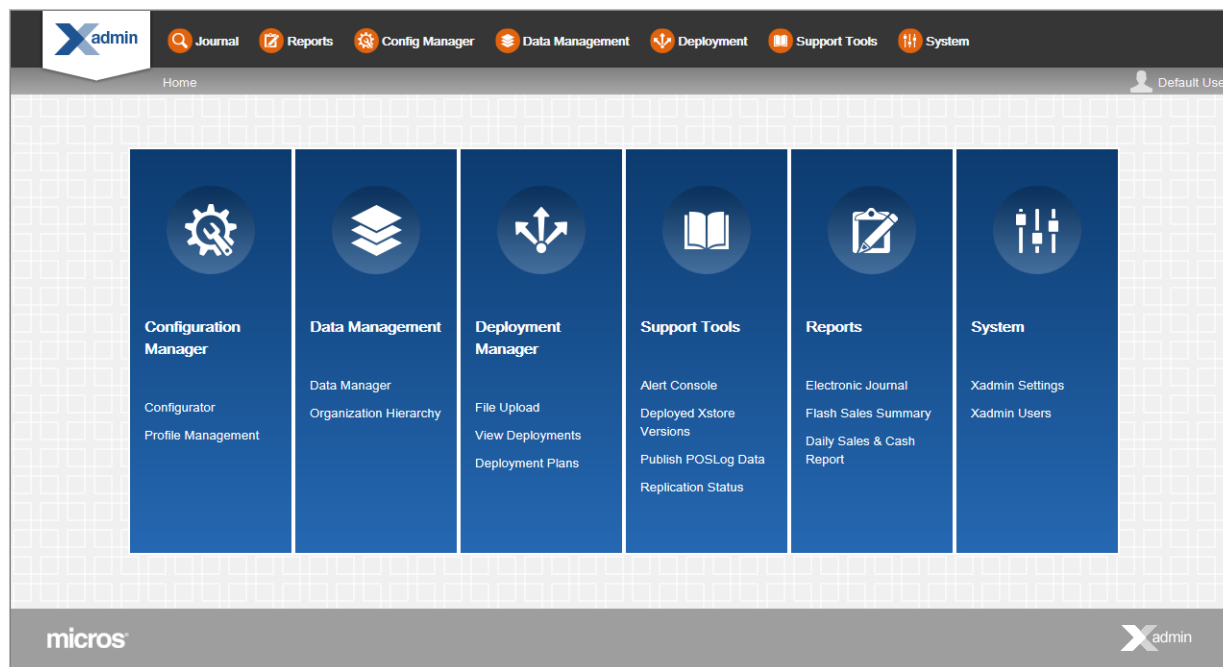


Figure C-2: Xadmin Home Page

Home Page/Main Menu Options

The grouping and availability of options on the Home page are completely unrelated to the options on the main menu, and are not meant to be the same. The main menu contains all possible options, while the Home page is designed to contain the options that should be readily available to the user upon login.

From a technical perspective, the options that can be configured on the Home page and the main menu each share a value for `menu_name` and, at least in the base, a `security_privilege`.



Sharing a menu name is required. Sharing a privilege, while recommended, is technically optional.

To Configure the Options on the Home Page

The category for the home page options is "HOME_PAGE_MENU". Any record in the `cfg_menu_config` table that has a `category` of "HOME_PAGE_MENU" and a `parent_menu_name` of "ROOT" constitutes a "Home page panel" on the home page. However, simply configuring a root record is not sufficient to make it display.

Following are the requirements to make a panel display on the home page:

- ❑ The record for the panel must have either no privilege or a privilege that is part of the current user's role. Each of the six panels in base data have a privilege associated with them. Those privileges are defined in [Security Settings](#) below.
- ❑ At least one option must be configured as a child of the root option.
- ❑ Of the child options that are configured, the user must have access (privilege) to at least one of them. Every individual menu option has a privilege associated with it.

If any of the above conditions are not met, the panel will not be displayed on the home page.

Panel Information

- ❑ The `menu_small_icon` column on the root record controls the image on top of the panel. The value of this column is a relative path to an image that follows the port number in the URL of the application.
- ❑ The `title` column on the root record controls the name of the panel.
- ❑ The `title` column of each child menu option controls the text that shows for each option on a panel.

Security Settings

The following privileges apply to the home page panels.

Table C-1: *Security Settings: Home Page Panels*

Privilege	Description
HOME_PAGE_CONFIG	The privilege that controls access to the "Configuration Manager" home page panel.
HOME_PAGE_DATA	The privilege that controls access to the "Data Management" home page panel.
HOME_PAGE_DEPLOY	The privilege that controls access to the "Deployment Manager" home page panel.
HOME_PAGE_SUPPORT	The privilege that controls access to the "Support Tools" home page panel.
HOME_PAGE_REPORTS	The privilege that controls access to the "Reports" home page panel.
HOME_PAGE_SYSTEM	The privilege that controls access to the "System" home page panel.

Table C-1: *Security Settings: Home Page Panels (continued)*

Privilege	Description
RPT_GENERAL_ACCESS	The privilege that controls access to the "All Reports" menu option.

cfg_menu_config Table**Table C-2:** *cfg_menu_config Table*

PK	Attribute/Logical Rolename	Datatype	NULL?	Definition
X	category	VARCHAR (60)	NO	Menu category.
X	menu_name	VARCHAR (100)	NO	Name of menu.
	parent_menu_name	VARCHAR (100)	YES	Name of parent menu.
	config_type	VARCHAR (120)	YES	Configuration type for menu (if applicable).
	title	VARCHAR (60)	YES	Translation key for display title of menu.
	menu_type	VARCHAR (30)	YES	Specifies the type of menu (REDIRECT_ACTION, LINK, ACTION, or LINK_GROUP)
	sort_order	INTEGER	YES	Sort order for menu display.
	view_id	VARCHAR (200)	YES	Relative path to view file associated with menu (only applicable to menus with menu_type of REDIRECT_ACTION and LINK).
	action_expression	VARCHAR (200)	YES	EL or method chain to execute when menu is selected.
	active_flag	BIT	YES	Determines whether menu is active or not.
	propagation	VARCHAR (30)	YES	Seam conversation propagation strategy to use when linking to another view.
	security_privilege	VARCHAR (30)	YES	Security privilege required to access menu.

Table C-2: *cfg_menu_config Table (continued)*

PK	Attribute/Logical Rolename	Datatype	NULL?	Definition
	custom_datasource_class	VARCHAR (200)	YES	Custom data source to use with report associated with menu (if applicable).
	custom_datasource_method	VARCHAR (30)	YES	Custom data source to use with report associated with menu (if applicable).
	menu_small_icon	VARCHAR (254)	YES	Relative path to image file to use as an icon for menu.
	menu_separator	BIT	YES	Unused
	description	VARCHAR (MAX)	YES	Text description of Menu Item.
	create_date	DATETIME	YES	Date the table row was created.
	create_user_id	VARCHAR (30)	YES	User responsible for creating the table row.
	update_date	DATETIME	YES	Date the table row was most recently updated.
	update_user_id	VARCHAR (30)	YES	User responsible for updating the table row.

Glossary

Glossary Terms

airside locations

Retail locations inside the secured area of the airport.

configuration jar file

A Java jar file containing a set of Xstore configuration files.

dataloader download file

A file containing data in delimited text format, which will be loaded into database tables using the DataLoader application.

debit bin file

A text file containing a set of range and format data for accepted debit cards.

deployment manifest

An XML document containing details for a deployment. These details include the location of the deployed file, a type distinction for the file, and instructions to indicate when the file should be downloaded and when it should be applied.

encryption cipher file

An encryption key file.

httpd

The Apache HyperText Transfer Protocol (HTTP) server program.

landscape

Defines the registers used within a store and specifies the register numbers and functions.

personality

A grouping of at least one or many Profile Group and Profile Element combinations in an ordered list that work together to define a store.

profile

A target group for configurations. A profile may either be the Master profile, which represents the default set of configurations for all store systems, or a Profile Group/Profile element combination that includes configurations for a specific group of store systems.

profile element

The child property associated with the Profile Group; for example, Location= Ohio, California, Iowa, etc.

profile group

A collection of configuration elements by type; for example Location, Register Type, Store Type, etc.

store personality

A personality/landscape pairing to define a store; used to create the configuration paths specified in `configPath.properties`.

target group

The location, or set of locations, that will receive a deployment.

update jar file

An executable application update.

Xenvironment lead register

The Xenvironment lead register system controls the store closing process and is responsible for querying Xcenter for new deployments, downloading deployments and distributing them to other registers in the store, and for sending feedback pertaining to the status of deployments to Xcenter.

Xstore primary register

The Xstore lead register system is used to open and close the retail location.

Revision History

This section summarizes the changes to this document for each Xadmin release. Refer to the Xstore Release Notes for more information about new functionality, enhancements, and improvements to Xadmin since the previous version.

Revision History 7.0, Doc Version 03

Xstore Version 7.0, Doc Version 03 Date 11/2014	
Description of Change	
Data Manager - Items	■ Added the serial number check box option to the Basic Merchandise Item Information table and the Non-Merchandise Item Information table.

Revision History 7.0, Doc Version 02

Xstore Version 7.0, Doc Version 02 Date 06/2014	
Description of Change	
About Deployments	■ Added version tracking of deployments information.

Revision History 7.0, Doc Version 01

Xadmin Version 7.0, Date 05/2014	
Description of Change	
Config Path	Added Resource Bundle information. Added Till/Register Data Processing information.
Deployment Manager	Updated File Upload process.
Support Tools	Updated PosLog Publisher process. Added primary register responsibility for reporting store version to the Deployed Xstore Versions feature.
Reports	Added new output types and Transaction Audit Reports reclassification information.
Data Management	Added Stock Valuation Year End Roll-up section. (Previously, this function was part of reporting). Added new Item Type Restriction - Disallow Rain Check. Added Alternate Store # information. Added Airport Zone information. Added Store/Till setup information.
Cofigurator	Added Currency ID setup information. Added Deployed Configurations Version Tracking section. Removed Tender System Config option "Payroll Deduction Tender Threshold Amount?": not supported in base Xstore. Till Accountability till counting options; replaced Total Normal option with Total Short option. Removed the following Security Config options: Accept Same Re-Count Amount?, Display Count Summary First On Count Start?, and Force Re-Count Of Till With Discrepancies Over Threshold With Override? Removed the Till Accountability option: Use Till Based Accountability? (Note: Use Till Accountability, Deposit Bank, and Deposit Acct configurations are now set up in System Settings.) Added Deleting Configuration Changes section.
Administration	Added Reports Category and new report format options.
System Settings	Added new configuration options for setting up a new store.
User Interface: Menu Configuration	Added new appendix for main menu and Home page configuration.

Revision History 6.5, Doc Version 05

Xstore Version 6.5, Doc Version 05 Date 04/2014	
Description of Change	
The following changes were made to address the vulnerability (Heartbleed) in OpenSSL for Apache:	
Public Key Certificates	■ When installing on Linux, OpenSSL 1.0.1g (or a newer 1.0.1 version, if available) should be installed replacing OpenSSL v1.0.0* Light.
Installing Xstore	■ 2013 C++ Runtimes have replaced Visual C++ 2010 SP1 Runtimes (x86).

Revision History 6.5, Doc Version 04

Xstore Version 6.5, Doc Version 04 Date 03/2014	
Description of Change	
Public Key Certificates	■ Added new steps for adding Xcenter's cert in Xenvironment's trusted ca bundle. Xenvironment needs Xcenter's cert in its trusted ca bundle because it directly requests deployments from Xcenter. Certs are now required for both Xcenter and the Apache server.

Revision History 6.5, Doc Version 03

Xstore Version 6.5, Doc Version 03 Date 12/2013	
Description of Change	
Installing Xstore	■ Removed references to configuring LDAP in xcenter.properties. Functionality was not implemented, LDAP is only configured in Xadmin Settings.

Revision History 6.5, Doc Version 02

Xadmin Version 6.5, Doc ver 02 Date 12/2013	
Description of Change	
Roles, Users, and Security Access	Removed xcenter.properties settings for LDAP configuration. LDAP is no longer configured in xcenter.properties, it is only configured in Xadmin Settings.

Revision History 6.5, Doc Version 01

Xadmin Version 6.5, Date 10/13	
Description of Change	
Application has been re-branded: From Xcenter Admin to Xadmin.	
Data Management	Added Redeploying Data to an Org Node section.
Broadcaster Appendix	Removed from this user guide, moved to the <i>Xstore Implementation Guide</i> .
Replication Appendix	Removed from this user guide, moved to the <i>Xstore Implementation Guide</i> .
Getting Started	Added reset and change password instructions.
Configurator	Added Tab Configuration section. Added new Discount options. Added new Receipt Text format options. Added new Tender options. Added deployment information for Immediate apply priority. Removed Profile Management section. (Moved to Profile Management chapter)
Profile Management	New chapter. New appendix for technical details.
Support	PosLog Publisher, updated section for ability to publish for multiple stores/days. Added new alert console information.
User Settings/ Security Access	Added LDAP Authentication section.
System Settings	Added new configuration for the maximum number of POSLog records returned from the database for republishing.
Deployment Manager	Updated for new flow.

Revision History 6.0, Doc Version 02

Xcenter Admin Version 6.0, Doc ver 02 Date 05/13
Description of Change
Discount Configuration - Revised flow, corrected privilege information
Tender Configuration - Corrected privilege information
Deploying Configuration Changes - Revised flow
Managing the Organization Hierarchy - Revised flow

Revision History 6.0, Doc Version 01

Xcenter Admin Version 6.0 Date 04/13
Description of Change
CTL_PERSIST_FAILURE table has been replaced by the RPL_REPLICATION_DATA table for reporting support alert codes.
Added Xcenter Admin Configurations - <i>EnableStoreSpecificOverrides, DataManagerAutoDeploymentStartTime, DaysBeforeLaunchDate, DeploymentAutoEmailStartTime, EnableDataManagerAutoDeployment, and MaxDeploymentResult</i>
Removed Xcenter Admin Configuration - <i>FileDeploymentServiceDirectory</i>
Roles, Users, and Security Access Chapter - Added information for new security access areas, new email field
Settings Chapter - Removed non-valid menu options: Config Path option, Organization ID option, Org Hierarchy level option
Config Manager Chapter - Added Store Specific Overrides option, Added Copy Store Configurations section, Added Delete Profile Configuration Changes section
Added new Broadcaster Appendix
Support Chapter - Added Replication Status information

Revision History 5.5, Doc Version 02

Xcenter Admin Version 5.5, Doc Version 02 Date 09/12		
Description of Change		
		Removed Appendix: <i>Loading User Records via DataLoader</i> from book per dev request
		Added Automatic External File Delivery section to Deployment Manager chapter
		Added Appendix: <i>About Deployments</i>
		Added Appendix: <i>Glossary</i>

Revision History 5.5, Doc Version 01

Xcenter Admin Version 5.5 Date 08/12		
Description of Change		
		New book for version 5.5.Loading User Records via DataLoader

Revision History 5.0

Xcenter Admin Version 5.0 Date 02/12		
Description of Change		
		New book for version 5.0.

Revision History 4.8

Xcenter Admin Version 4.8 Date 07/11		
Description of Change		
		Added employee task and message database configuration information. Removed "No Access Settings" from Security Privilege Detail configuration. Added "Overridable" to Security Privilege Detail configuration. Removed references to <code>ConfiguratorConfig.xml</code>. (No longer supported)

Revision History 4.0, Doc Version 03

Doc Version 03 Xcenter Admin Version 4.0 Date 04/11		
Description of Change		
		REMOVED ALL REFERENCES TO SYSTEM CONFIGURATION. (Not fully supported in base at this time.)

Revision History 4.0, Doc Version 02

Doc Version 02 Xcenter Admin Version 4.0 Date 05/10		
Description of Change		
		Added Disallow Deals and Disallow Order configuration options to Item Configuration.
		Added Security Privilege and Security Permission DAO information.