

Administration Guide

Kablink® Teaming

2.0

July 31, 2009

Legal Notices

Novell, Inc. makes no representations or warranties with respect to the contents or use of this documentation, and specifically disclaims any express or implied warranties of merchantability or fitness for any particular purpose. Further, Novell, Inc. reserves the right to revise this publication and to make changes to its content, at any time, without obligation to notify any person or entity of such revisions or changes.

Further, Novell, Inc. makes no representations or warranties with respect to any software, and specifically disclaims any express or implied warranties of merchantability or fitness for any particular purpose. Further, Novell, Inc. reserves the right to make changes to any and all parts of Novell software, at any time, without any obligation to notify any person or entity of such changes.

Any products or technical information provided under this Agreement may be subject to U.S. export controls and the trade laws of other countries. You agree to comply with all export control regulations and to obtain any required licenses or classification to export, re-export or import deliverables. You agree not to export or re-export to entities on the current U.S. export exclusion lists or to any embargoed or terrorist countries as specified in the U.S. export laws. You agree to not use deliverables for prohibited nuclear, missile, or chemical biological weaponry end uses. See the [Novell International Trade Services Web page \(http://www.novell.com/info/exports/\)](http://www.novell.com/info/exports/) for more information on exporting Novell software. Novell assumes no responsibility for your failure to obtain any necessary export approvals.

Copyright © 2008-2009 Novell, Inc. All rights reserved. Permission is granted to copy, distribute, and/or modify this document under the terms of the GNU Free Documentation License (GFDL), Version 1.2 or any later version, published by the Free Software Foundation with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the GFDL can be found at <http://www.fsf.org/licenses/fdl.html>.

THIS DOCUMENT AND MODIFIED VERSIONS OF THIS DOCUMENT ARE PROVIDED UNDER THE TERMS OF THE GNU FREE DOCUMENTATION LICENSE WITH THE FURTHER UNDERSTANDING THAT:

1. THE DOCUMENT IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE DOCUMENT OR MODIFIED VERSION OF THE DOCUMENT IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY, ACCURACY, AND PERFORMANCE OF THE DOCUMENT OR MODIFIED VERSION OF THE DOCUMENT IS WITH YOU. SHOULD ANY DOCUMENT OR MODIFIED VERSION PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL WRITER, AUTHOR OR ANY CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY DOCUMENT OR MODIFIED VERSION OF THE DOCUMENT IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER; AND

2. UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER IN TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL THE AUTHOR, INITIAL WRITER, ANY CONTRIBUTOR, OR ANY DISTRIBUTOR OF THE DOCUMENT OR MODIFIED VERSION OF THE DOCUMENT, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER DAMAGES OR LOSSES ARISING OUT OF OR RELATING TO USE OF THE DOCUMENT AND MODIFIED VERSIONS OF THE DOCUMENT, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES.

Novell, Inc. has intellectual property rights relating to technology embodied in the product that is described in this document. In particular, and without limitation, these intellectual property rights may include one or more of the U.S. patents listed on the [Novell Legal Patents Web page \(http://www.novell.com/company/legal/patents/\)](http://www.novell.com/company/legal/patents/) and one or more additional patents or pending patent applications in the U.S. and in other countries.

Novell, Inc.

404 Wyman Street, Suite 500
Waltham, MA 02451
U.S.A.
www.novell.com

Online Documentation: To access the latest online documentation for this and other Novell products, see
[the Novell Documentation Web page \(http://www.novell.com/documentation\)](http://www.novell.com/documentation).

Novell Trademarks

For Novell trademarks, see [the Novell Trademark and Service Mark list \(http://www.novell.com/company/legal/trademarks/tmlist.html\)](http://www.novell.com/company/legal/trademarks/tmlist.html).

Third-Party Materials

All third-party trademarks are the property of their respective owners.

Contents

About This Guide	9
Part I Site Setup	11
1 Logging In as the Teaming Site Administrator	13
2 Planning User Access to Workspaces and Folders	15
2.1 Understanding Access Control	15
2.2 Understanding the Implications of Access Control	15
2.2.1 Inheritance	15
2.2.2 Navigation	16
2.3 Controlling User Access in Workspaces	16
2.3.1 Controlling User Access to Personal Workspaces	16
2.3.2 Controlling User Access to Team Workspaces	17
2.3.3 Controlling User Access to Global Workspaces	17
2.4 Controlling User Access across the Teaming Site	18
2.5 Managing Roles to Refine Access Control	19
2.5.1 Defining a New Role	20
2.5.2 Modifying Existing Roles	20
2.5.3 Deleting Existing Roles	21
3 Setting Up Initial Workspaces	23
3.1 Understanding Workspaces	23
3.2 Setting Up Users' Personal Workspaces	24
3.2.1 Understanding Personal Workspaces	24
3.2.2 Customizing the Default Personal Workspace View	26
3.2.3 Customizing the Default View of the Profile Tab	27
3.2.4 Adding LDAP Elements to the Profiles Tab	29
3.3 Organizing Team Workspaces	30
3.3.1 Understanding Team Workspaces	30
3.3.2 Creating a Team Workspace Root Workspace	30
3.3.3 Creating a Team Workspace	31
3.4 Establishing Global Workspaces	31
3.5 Establishing Workspace and Folder Templates	31
3.5.1 Understanding Templates	31
3.5.2 Understanding Default Workspace and Folder Templates	32
3.5.3 Creating Workspace and Folder Templates	35
4 Setting Up User Access to the Teaming Site	39
4.1 Adding New Users to Your Teaming Site	39
4.2 Creating Groups of Users	40
4.3 Allowing Guest Access to Your Teaming Site	41
4.3.1 Understanding the Guest User	42
4.3.2 Setting Up Guest Access	42
4.3.3 Monitoring Guest User Access	44
4.4 Allowing Guests to Create Their Own Teaming User Accounts	45

4.4.1	Granting Access to Create Personal Workspaces	45
4.4.2	Enabling Self Registration	46
4.4.3	Testing Self Registration	46
4.5	Allowing Web Crawler Access to Your Teaming Site	46
5	Configuring E-Mail Integration	49
5.1	Enabling/Disabling Outbound E-Mailing of Folder Digests	49
5.2	Disabling/Enabling Inbound E-Mail Postings	50
6	Configuring Real-Time Communication Tools	51
6.1	Integrating Conferencing with Teaming	51
6.2	Integrating Skype with Teaming	51
7	Adding Software Extensions	53
7.1	Creating a Software Extension	53
7.2	Deploying a Software Extension	53
7.2.1	Prerequisites	53
7.2.2	Deploying the Extension	53
8	Using Remote Applications on Your Teaming Site	55
8.1	Creating a Remote Application	55
8.2	Adding a Remote Application to Your Teaming Site	55
8.3	Creating an Application Group	57
8.4	Implementing Remote Applications on Your Teaming Site	58
9	Customizing Your Teaming Site by Editing Teaming Properties	59
9.1	Increasing the File Upload Size Limit	59
9.2	Changing Global File Associations for Edit in Place Applications	59
10	Managing a Multi-Language Teaming Site	61
10.1	Accommodating Multiple Languages	61
10.1.1	Understanding the Teaming Site Default Language	61
10.1.2	Setting Up a Multilingual Workspace Name	61
10.1.3	Changing the Default Language on the Login Page	61
10.2	Adding a New Language	62
10.2.1	Current Language Availability	62
10.2.2	Text to Translate	63
10.2.3	New Language Implementation	64
Part II	Site Maintenance	65
11	Managing Users	67
11.1	Synchronizing Users and GroupWise from an LDAP Directory	67
11.1.1	Adjusting LDAP Synchronization of Users and Groups	67
11.1.2	Synchronizing Additional LDAP Attributes	67
11.2	Listing Teaming Users	68
11.2.1	Navigating through the User List	68

11.2.2	Adding Local Users	69
11.2.3	Modifying the Title, Description, and Branding	69
11.3	Renaming a Teaming User	69
11.3.1	Renaming a Teaming User from LDAP	69
11.3.2	Renaming a Local Teaming User	70
11.4	Deleting a Teaming User	71
11.4.1	Manually Deleting a User	71
11.4.2	Deleting a User through LDAP	72
11.5	Managing Self-Registered Users	72
12	Managing Workspaces	73
13	Managing Workspace and Folder Templates	75
13.1	Modifying Workspace and Folder Templates	75
13.1.1	Deleting the Template	76
13.1.2	Exporting the Template	76
13.1.3	Renaming the Template	76
13.1.4	Adding an Existing Workspace Template	76
13.1.5	Adding an Existing Folder Template	77
13.1.6	Adding Access Controls to the Template	77
13.1.7	Changing the Default View for the Template	77
13.1.8	Changing the Title, Description, Brand, and Icon for the Template	77
13.1.9	Modifying the Accessory Panel for the Template	77
13.2	Importing Templates	78
13.3	Exporting Templates	78
13.3.1	Exporting Single Templates	78
13.3.2	Exporting Multiple Templates	79
13.4	Reverting All Templates to the Factory Default	79
14	Creating and Managing Workflows	81
14.1	Creating Global Workflows	81
14.2	Downloading Existing Custom Forms and Workflows	81
15	Managing the Lucene Index	83
15.1	Changing Your Lucene Configuration	83
15.2	Rebuilding the Lucene Index	83
16	Backing Up Teaming Data	85
16.1	Locating Teaming Data to Backup Up	85
16.1.1	Teaming File Repository	85
16.1.2	Teaming Database	85
16.1.3	Lucene Index	86
16.2	Scheduling and Performing Backups	86
16.3	Restoring Teaming Data from Backup	86
17	Monitoring the Teaming Site	87
17.1	Generating Reports	87
17.1.1	Login Report	87
17.1.2	User Activity Report	89
17.1.3	User Access Report	90

17.1.4	Content Modification Report	91
17.1.5	Disk Usage Report	93
17.2	Using Log Files	94
17.2.1	Teaming Log File	94
17.2.2	Tomcat Log File	95
17.3	Checking the Teaming Site Software Version	96

Part III Site Security 97

18 Security Administration 99

18.1	Securing LDAP Synchronization	99
18.1.1	Understanding How Teaming Handles Public-Key Certificates	99
18.1.2	Obtaining a Signed Public-Key Certificate	99
18.1.3	Importing Certificates	100
18.2	Securing E-Mail Transfer	100
18.3	Securing HTTP Connections	101
18.3.1	Implementing Secure HTTP Connections	101
18.3.2	Forcing Secure HTTP Connections	101

19 Security Policies 105

19.1	Securing the Teaming Data	105
19.1.1	Limiting Physical Access to Teaming Servers	105
19.1.2	Protecting the Teaming File Repository	105
19.1.3	Protecting the Teaming Database	105
19.2	Securing the Teaming Software	106
19.2.1	Protecting the Teaming Configuration Files	106
19.2.2	Protecting the Teaming Properties File	106
19.2.3	Protecting Log Files	106
19.2.4	Protecting the Teaming Process on Linux	107
19.3	Securing the Teaming Site	107
19.3.1	Configuring a Proxy Server	107
19.3.2	Setting the Teaming Administrator Password	107
19.3.3	Setting Up SSL Connections	107
19.3.4	Shortening the Teaming Session Timeout	108
19.3.5	Using Role-Based Access Control	108
19.3.6	Monitoring Inbound E-Mail	108
19.3.7	Preventing Web Services Access	108
19.3.8	Controlling RSS Feeds	108

About This Guide

The *Kablink Teaming 2.0 Administration Guide* provides administration information for Kablink® Teaming. The guide contains the following sections:

- ♦ Part I, “Site Setup,” on page 11
- ♦ Part II, “Site Maintenance,” on page 65
- ♦ Part III, “Site Security,” on page 97

Audience

This guide is intended for Kablink Teaming administrators.

Feedback

We want to hear your comments and suggestions about this manual and the other documentation included with this product. Please use the User Comments feature at the bottom of each page of the online documentation, or go to www.novell.com/documentation/feedback.html and enter your comments there.

Documentation Updates

For the most recent version of the *Kablink Teaming 2.0 Administration Guide* and other documentation, visit the [Kablink Teaming 2.0 Documentation Web site \(http://www.novell.com/documentation/kablinkteaming2\)](http://www.novell.com/documentation/kablinkteaming2).

Additional Documentation

You can find more information in the Kablink Teaming documentation, which is accessible from links within Kablink Teaming:

- ♦ Kablink Teaming Help system
- ♦ *Kablink Teaming Quick Start*
- ♦ *Kablink Teaming User Guide*
- ♦ *Kablink Teaming Advanced User Guide*
- ♦ *Kablink Teaming Installation Guide*
- ♦ *Kablink Teaming Developer Guide*

To access the Kablink Teaming Help system, log in to the Teaming site, then click the *Help* icon (question mark), then click a yellow Help spot for context-sensitive help.

To access the Kablink Teaming guides from within Teaming, click the *Help* icon (question mark), then click *Teaming Manuals*.

Documentation Conventions

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

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

When a single pathname can be written with a backslash for some platforms or a forward slash for other platforms, the pathname is presented with a backslash. Users of platforms that require a forward slash, such as Linux* or UNIX*, should use forward slashes as required by your software.

Site Setup

- ♦ Chapter 1, “Logging In as the Teaming Site Administrator,” on page 13
- ♦ Chapter 2, “Planning User Access to Workspaces and Folders,” on page 15
- ♦ Chapter 3, “Setting Up Initial Workspaces,” on page 23
- ♦ Chapter 4, “Setting Up User Access to the Teaming Site,” on page 39
- ♦ Chapter 5, “Configuring E-Mail Integration,” on page 49
- ♦ Chapter 6, “Configuring Real-Time Communication Tools,” on page 51
- ♦ Chapter 7, “Adding Software Extensions,” on page 53
- ♦ Chapter 8, “Using Remote Applications on Your Teaming Site,” on page 55
- ♦ Chapter 9, “Customizing Your Teaming Site by Editing Teaming Properties,” on page 59
- ♦ Chapter 10, “Managing a Multi-Language Teaming Site,” on page 61

Logging In as the Teaming Site Administrator

1

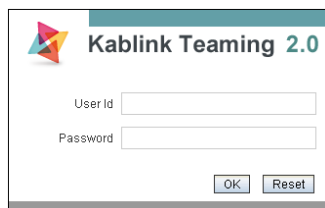
When you first install Kablink® Teaming, the Teaming administrator username is `admin` and the password is `admin`. When you first log in to the Teaming site as the administrator, you should change the administrator password from the default password to a secure password of your own choosing. If you followed the instructions in “[Accessing Your Basic Teaming Site as the Site Administrator](#)” in “[Basic Installation](#)” in the *Kablink Teaming 2.0 Installation Guide*, you have already completed this very important task.

If you have not already reset the Teaming administrator password:

- 1 In your Web browser, specify one of the following URLs, depending on whether or not you are using a secure SSL connection:

```
http://teaming_hostname  
https://teaming_hostname
```

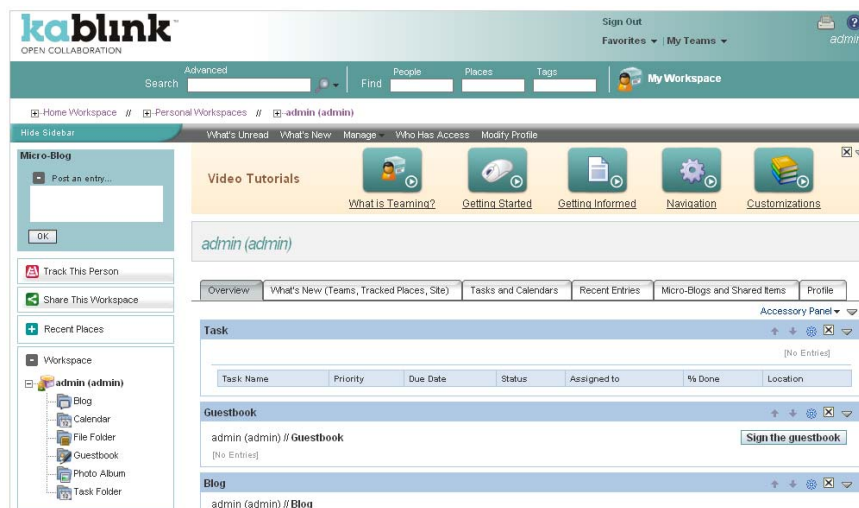
where *hostname* is the hostname of the Teaming server. If you configured the HTTP ports correctly during installation, you do not need to include the port number in the Teaming URL.



The image shows the login interface for Kablink Teaming 2.0. It features a logo with a colorful triangle on the left. The title "Kablink Teaming 2.0" is at the top. Below it are two input fields: "User Id" and "Password". At the bottom are two buttons: "OK" and "Reset".

- 2 Log in using `admin` as the login name and `admin` as the password.

The Teaming administrator’s personal workspace displays.



- 3** Change the default administrator password to a secure password:
 - 3a** On the Workspace toolbar, click *Modify Profile*.
 - 3b** Specify your own password for the Teaming administrator in the *New Password* and *Confirm New Password* fields.
 - 3c** (Optional) Provide useful information in the additional fields of the Teaming administrator's profile.
 - 3d** Click *OK* to return to the administrator's workspace.

Planning User Access to Workspaces and Folders

2

As the Kablink® Teaming site administrator, you are responsible for setting up and controlling user access across the entire Teaming site. Even though workspace and folder owners are responsible for controlling user access in their individual workspaces and folders, you as the Teaming administrator have the ability to create new roles, modify existing roles, and change default access control settings for all types of workspaces.

- ♦ [Section 2.1, “Understanding Access Control,” on page 15](#)
- ♦ [Section 2.2, “Understanding the Implications of Access Control,” on page 15](#)
- ♦ [Section 2.3, “Controlling User Access in Workspaces,” on page 16](#)
- ♦ [Section 2.4, “Controlling User Access across the Teaming Site,” on page 18](#)
- ♦ [Section 2.5, “Managing Roles to Refine Access Control,” on page 19](#)

2.1 Understanding Access Control

Before you begin configuring access control settings for your Teaming site, it is important that you understand how access control works in Kablink Teaming.

For background information about Teaming access control, see [“Understanding Access Control”](#) in the *Kablink Teaming 2.0 Advanced User Guide*.

2.2 Understanding the Implications of Access Control

In simplest terms, access control settings determine what users can see and do in each workspace or folder. However, because your Kablink Teaming site is a hierarchy of workspaces and folders and because access control settings can be inherited (or not), access control settings affect a variety of Teaming features:

- ♦ [Section 2.2.1, “Inheritance,” on page 15](#)
- ♦ [Section 2.2.2, “Navigation,” on page 16](#)

2.2.1 Inheritance

When you create a new workspace, it defaults to the inheritance setting of its parent workspace.

- ♦ If you create a new workspace under an existing workspace that is inheriting its access control settings from its parent, the new workspace continues the inheritance chain. If you change any access control settings above the new workspace at a later time, the access control settings for the new workspace also change. Global workspaces inherit access control settings from the parent workspace by default.
- ♦ If you create a new workspace under an existing workspace that has locally defined access control settings, the new workspace retains those locally defined settings.

If you move a workspace that is inheriting its access control settings from its original parent workspace, it inherits the access control settings of the new parent workspace into which it is moved. If the new parent workspace has different settings than the original parent workspace, then the access control settings for the moved workspace change accordingly.

2.2.2 Navigation

Sub-workspaces and sub-folders should not permit access to users or groups that do not have access to the higher-level workspaces, for the following reasons:

- ♦ Users cannot see the workspace, even though they have appropriate rights.

Users browsing in the Workspace tree (or in a Workspace Tree accessory) for the sub-workspace or sub-folder that they have been granted access to are not able to see the workspace, because Teaming does not permit them to see the parent workspace that they do not have access to. Users can still access the workspace using the Find or Search feature.

- ♦ Users can see the name of a higher-level workspace, even though they do not have appropriate rights.

Users who use the Find or Search feature to locate the sub-workspace or sub-folder that they have been granted access to, then view the sub-workspace or sub-folder, are then able to see the name of the parent workspace, which they otherwise would not be able to see. However, they can see only the workspace name, not the contents of the workspace.

2.3 Controlling User Access in Workspaces

The access control settings on each workspace determine who can see the workspace and how different types of users can participate in each workspace.

- ♦ [Section 2.3.1, “Controlling User Access to Personal Workspaces,” on page 16](#)
- ♦ [Section 2.3.2, “Controlling User Access to Team Workspaces,” on page 17](#)
- ♦ [Section 2.3.3, “Controlling User Access to Global Workspaces,” on page 17](#)

2.3.1 Controlling User Access to Personal Workspaces

By default, personal workspaces are created with the following access:

User or Group	Access Role	Role Description
Workspace Owner (user)	Administrator	Can create, modify, or delete workspaces or folders; moderate participation (modify or delete the entries of others); design entries and workflows; and can perform Participant tasks.
All Users group	Participant	Can create and modify entries, plus perform the Visitor tasks.
	Visitor	Has read-only and comment-only access.

Teaming users can adjust the access control for their personal workspaces, as described in [“Controlling User Access”](#) in the *Kablink Teaming 2.0 Advanced User Guide*.

2.3.2 Controlling User Access to Team Workspaces

By default, new team workspaces created under the main Team Workspace are visible only to members of the team workspace. Following are some of the default access control options:

User or Group	Access Role	Role Description
Workspace Owner (team creator)	Administrator	Can create, modify, or delete workspaces or folders; moderate participation (modify or delete the entries of others); design entries and workflows; and can perform Participant tasks.
All Users group	Participant	Can create and modify entries, plus perform the Visitor tasks.
	Visitor	Has read-only and comment-only access.

After you create a new team workspace, you can configure different access control settings for it.

- 1 Select the new team workspace, then click *Manage > Access Control*.
- 2 Select *No* in the Inheritance box.

This folder inherits its access control settings from its parent.

Inherit role membership from the parent folder or workspace? ⓘ

☒ yes ☐ no

- 3 Click *Apply* to activate the Access Control table:

✓ designates the access control setting of the parent workspace

Add User Names from Clipboard

			Add a Role ▼			
			Participant	Team Member	Workspace and Folder Administrator	Workspace Creator
	Owner of Workspace or Folder		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Team Members		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Add a Group ▼	Group Title	Group Name	Participant	Team Member	Workspace and Folder Administrator	Workspace Creator
	All Users	allUsers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Add a User ▼	User Title	User Id	Participant	Team Member	Workspace and Folder Administrator	Workspace Creator
Add an Application Group ▼	Application Group Title	Application Group Name	Participant	Team Member	Workspace and Folder Administrator	Workspace Creator
Add an Application ▼	Application Title	Application Name	Participant	Team Member	Workspace and Folder Administrator	Workspace Creator

- 4 Adjust the access control settings for the new team workspace as needed, as described in “[Controlling User Access](#)” in the *Kablink Teaming 2.0 Advanced User Guide*.

2.3.3 Controlling User Access to Global Workspaces

By default, the Global Workspace immediately under the Home Workspace inherits the access control settings of the Home Workspace, which are:

User or Group	Access Role	Role Description
Workspace Owner (admin)	Administrator	Can create, modify, or delete workspaces or folders; moderate participation (modify or delete the entries of others); design entries and workflows; and can perform Participant tasks.

User or Group	Access Role	Role Description
All Users group	Participant	Can create and modify entries, plus perform the Visitor tasks.
	Visitor	Has read-only and comment-only access.
All Applications group	Visitor	Has read-only and comment-only access. For information about application groups, see “ Managing Remote Applications ” in the Kablink Teaming 2.0 Advanced User Guide .

When you create a new global workspace under the main Global Workspace, the new global workspace by default inherits the access control settings of the main Global Workspace, as listed above. After you create a new global workspace, you can configure different access control settings for it.

- 1 Select the new global workspace, then click *Manage > Access Control*.
- 2 Select *No* in the Inheritance box.

This folder inherits its access control settings from its parent.

Inherit role membership from the parent folder or workspace? ⓘ

☒ yes ☐ no

- 3 Click *Apply* to activate the Access Control table:

✓ designates the access control setting of the parent workspace

Add User Names from Clipboard

			Add a Role ▼			
			Participant	Team Member	Visitor	Workspace and Folder Administrator
	Owner of Workspace or Folder		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
	Team Members		<input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Add a Group ▼	Group Title	Group Name	Participant	Team Member	Visitor	Workspace and Folder Administrator
	All Users	allUsers	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>
Add a User ▼	User Title	User Id	Participant	Team Member	Visitor	Workspace and Folder Administrator
Add an Application Group ▼	Application Group Title	Application Group Name	Participant	Team Member	Visitor	Workspace and Folder Administrator
	All Applications	allApplications	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>
Add an Application ▼	Application Title	Application Name	Participant	Team Member	Visitor	Workspace and Folder Administrator

- 4 Adjust the access control settings for the new global workspace as needed, as described in “[Controlling User Access](#)” in the [Kablink Teaming 2.0 Advanced User Guide](#).

2.4 Controlling User Access across the Teaming Site

To assign a user to a particular role for every place on the Kablink Teaming site:

- 1 In the Folder or Workspace toolbar, click *Manage > Site Administration*, then click *Access Control for Zone Administration Functions*.

Configure Access Control

Configure Access Control ⓘ
Close

Administrative Functions

Add User Names from Clipboard

Add a Role ▾

Add a Group ▾	Group Title	Group Name	Allow Adding Guest Access	Participant	Zone Administration
Add a User ▾	User Title	User Id	Allow Adding Guest Access	Participant	Zone Administration
	admin	admin	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

Add an Application Group * ▾

Application Group Title	Application Group Name	Allow Adding Guest Access	Participant	Zone Administration
All Applications	allApplications		<input checked="" type="checkbox"/>	

Add an Application * ▾

Application Title	Application Name	Allow Adding Guest Access	Participant	Zone Administration
-------------------	------------------	---------------------------	-------------	---------------------

Save Changes

* Assigning roles to an application or application group at the zone level actually specifies the maximum set of rights that the application is allowed to use. This allows the site administrator to prevent applications from ever having more rights than are needed to perform its task. If no roles are assigned, then the application has no rights.

[Note: admin (admin) has been designated as the default site administrator with privileges to perform any task on any workspace or folder.]

Close

A basic Teaming site consists of a single zone. Novell Teaming allows you to set up multiple zones in a single Teaming site. This feature is not available in Kablink Teaming.

- 2 Add the user to whom you want to grant the site-wide role to the Access Control table.

For information on how to add users to the Access Control table, see “[Adding Users to the Access Control Table](#)” in the *Kablink Teaming 2.0 Advanced User Guide*.

- 3 Add the role that you want to grant to the Access Control table.

For information on how to add roles to the Access Control table, see “[Adding Roles to the Access Control Table](#)” in the *Kablink Teaming 2.0 Developer Guide*.

- 4 Click *Save Changes*, then click *Close*.

2.5 Managing Roles to Refine Access Control

Kablink Teaming uses role-based access control. By default, there are six roles, and each role contains specific rights. If you want a particular user to have certain rights, then you can assign that user to the appropriate role. For a list of all the default access roles that are included in Teaming, see “[Default Roles](#)” in the *Kablink Teaming 2.0 Advanced User Guide*.

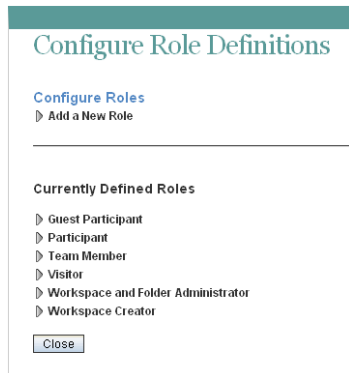
If you find that the existing roles do not meet the needs of your organization, you can modify them or create new ones. This can be particularly useful if you want to delegate the administration of sub-workspaces and sub-folders, and if you do not want to grant all of the privileges that come with the Workspace and Folder Administration role.

Teaming also enables you to delete roles that are no longer useful to your organization.

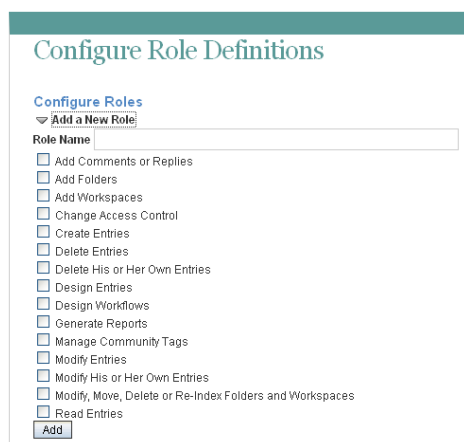
- ♦ [Section 2.5.1, “Defining a New Role,” on page 20](#)
- ♦ [Section 2.5.2, “Modifying Existing Roles,” on page 20](#)
- ♦ [Section 2.5.3, “Deleting Existing Roles,” on page 21](#)

2.5.1 Defining a New Role

- 1 Log in to the Teaming site as the Teaming administrator.
- 2 On the Workspace toolbar, click *Manage > Site Administration*, then click *Configure Role Definitions*.



- 3 Click *Add a New Role*.



- 4 In the *Role Name* field, specify a name for the new role, then select all of the rights that you want members of this role to be able to perform.
- 5 Click *Add*, then click *Close*.

The role is added to the list of existing roles, and you can now add this role to the Access Control table.

2.5.2 Modifying Existing Roles

- 1 Log in to the Teaming site as the Teaming administrator.
- 2 In the Workspace toolbar, click *Manage > Site Administration*, then click *Configure Role Definitions*.
- 3 In the *Currently Defined Roles* section, select the role that you want to modify.

- 4 Select the rights that you want members of this role to be able to perform, and deselect the rights that you don't want them to be able to perform.
- 5 Click *Apply*, then click *Close*.

2.5.3 Deleting Existing Roles

- 1 Log in to the Teaming site as the Teaming administrator.
- 2 In the Workspace toolbar, click *Manage > Site Administration*, then click *Configure Role Definitions*.
- 3 In the *Currently Defined Roles* section, select the role that you want to delete.
- 4 Click *Delete*, then click *Close*.

Setting Up Initial Workspaces

3

Proper organization of workspaces is critical to building an effective Kablink® Teaming site.

- ♦ [Section 3.1, “Understanding Workspaces,” on page 23](#)
- ♦ [Section 3.2, “Setting Up Users’ Personal Workspaces,” on page 24](#)
- ♦ [Section 3.3, “Organizing Team Workspaces,” on page 30](#)
- ♦ [Section 3.4, “Establishing Global Workspaces,” on page 31](#)
- ♦ [Section 3.5, “Establishing Workspace and Folder Templates,” on page 31](#)

See also [Chapter 12, “Managing Workspaces,” on page 73](#).

3.1 Understanding Workspaces

Your Kablink Teaming site consists of seven types of workspaces:

- ♦ **Personal workspaces:** When you add users to your Teaming site, as described in [“Adding Users to Your Teaming Site”](#) in [“Basic Installation”](#) in the *Kablink Teaming 2.0 Installation Guide*, a personal workspace is established for each user. Users can customize their personal workspaces, as described in [“Setting Up Your Personal Workspace”](#) in [“Getting Started”](#) in the *Kablink Teaming 2.0 User Guide*.
- ♦ **Team workspaces:** Teaming users, along with you as the Teaming administrator, can create team workspaces for groups of people who work together regularly, as described in [“Setting Up Your Personal Workspace”](#) in [“Getting Started”](#) in the *Kablink Teaming 2.0 User Guide*. You, as the Teaming administrator, need to decide how you want to organize team workspaces before you let users start creating them.
- ♦ **Team Workspace Root workspaces:** Team Workspace Root workspaces are the optimal type of workspace if you want to create a library of team workspaces as sub-workspaces.
For more information on Team Workspace Root workspaces, see [“Creating and Managing a Team Workspace Root Workspace”](#) in the *Kablink Teaming 2.0 Advanced User Guide*.
- ♦ **Project Management Workspaces:** Project Management workspaces include special accessories that help leaders track the progress of task completion for potentially large projects. Project Management workspaces focus on project completion.
For more information on Project Management workspaces, see [“Creating and Managing a Project Management Workspace”](#) in the *Kablink Teaming 2.0 Advanced User Guide*.
- ♦ **Discussions workspaces:** The Discussions workspace can be the home page for a set of discussion forums. You can also use the Discussions workspace to house other types of folders. Discussions workspaces can be particularly useful for site administrators who are responsible for creating the overall structure of the Teaming site.
For more information on how you can use Discussions workspaces, see [“Creating and Managing a Discussions Workspace”](#) in the *Kablink Teaming 2.0 Advanced User Guide*.
- ♦ **Basic workspaces:** Like other types of Teaming workspaces, basic workspaces in Teaming can be used to organize information inside of existing workspaces, creating different levels of hierarchy within a workspace.

For more information on basic workspaces, see “[Creating and Managing a Basic Workspace](#)” in the *Kablink Teaming 2.0 Advanced User Guide*.

- ♦ **Global workspaces:** Global workspaces contain information that is of interest to all Teaming users. You, as the Teaming administrator, decide what type of information needs to be globally available on your Teaming site.

For more information on Global workspaces, see [Section 3.4, “Establishing Global Workspaces,”](#) on page 31.

3.2 Setting Up Users’ Personal Workspaces

- ♦ [Section 3.2.1, “Understanding Personal Workspaces,”](#) on page 24
- ♦ [Section 3.2.2, “Customizing the Default Personal Workspace View,”](#) on page 26
- ♦ [Section 3.2.3, “Customizing the Default View of the Profile Tab,”](#) on page 27
- ♦ [Section 3.2.4, “Adding LDAP Elements to the Profiles Tab,”](#) on page 29

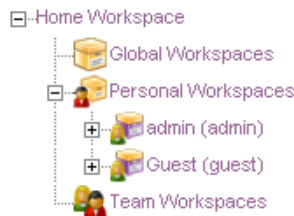
See also [Section 2.3.1, “Controlling User Access to Personal Workspaces,”](#) on page 16.

3.2.1 Understanding Personal Workspaces

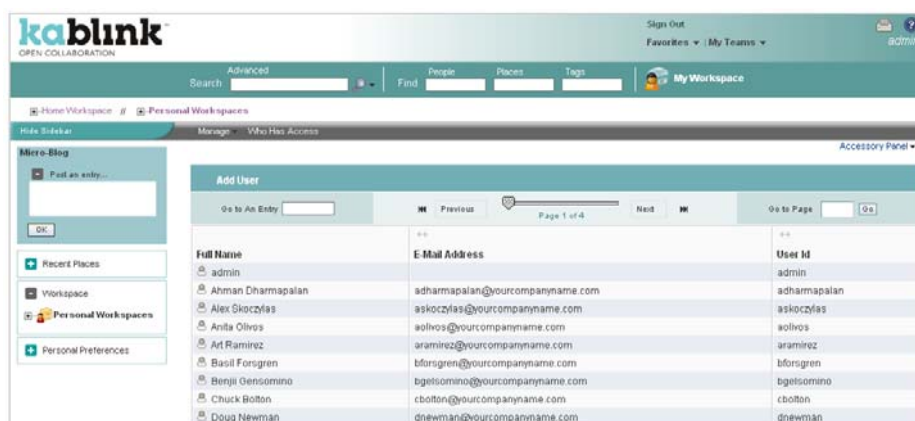
When you create your Kablink Teaming site, a workspace named Personal Workspaces is automatically created.



Initially, when you expand it, Personal Workspaces includes only two personal workspaces, even after you have created Teaming users, as described in “[Adding Users to Your Teaming Site](#)” in “[Basic Installation](#)” in the *Kablink Teaming 2.0 Installation Guide*.



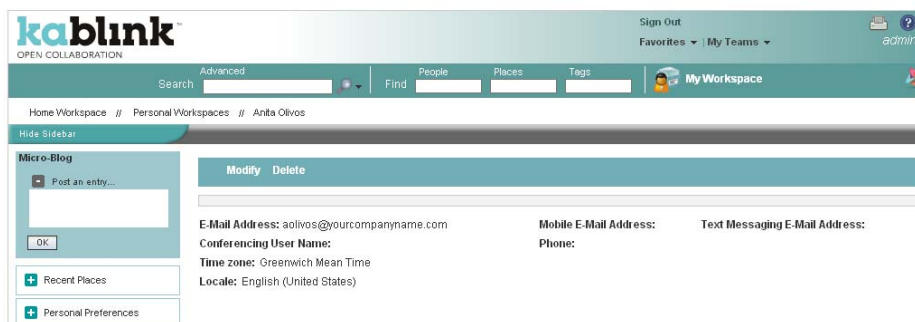
Users’ workspaces appear in the Workspace tree after the users log in for the first time. However, you can still see what users have been added to the Teaming site by clicking *Personal Workspaces*.



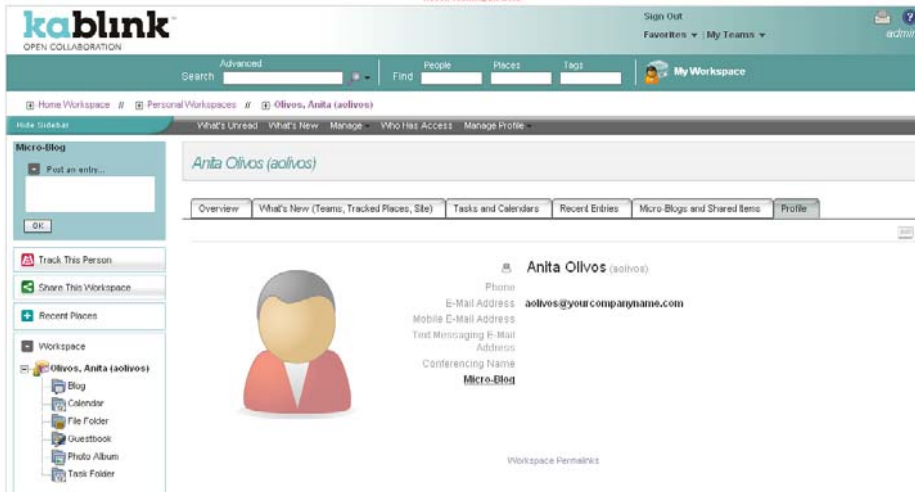
You can manually add Teaming users from this user list, as described in [Section 11.2, “Listing Teaming Users,”](#) on page 68.

You can also create new Teaming users by using the method described in “[Creating a User](#)” in “[Basic Installation](#)” in the *Kablink Teaming 2.0 Installation Guide*.

As the Teaming administrator, you can access any user’s personal workspace by clicking on it in the user list. Before the user has logged in, the user’s personal workspace includes only very basic information.



After the user has logged in, more information displays in the personal workspace; it is ready for the user to personalize.



For information on how users can customize and populate their personal workspaces, see “[Setting Up Your Personal Workspace](#)” in the *Kablink Teaming 2.0 User Guide*.

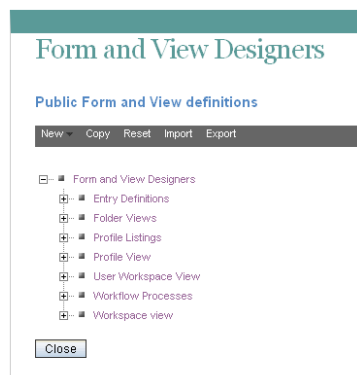
3.2.2 Customizing the Default Personal Workspace View

As a Kablink Teaming administrator, you have the ability to customize the default view for all personal workspaces in your Teaming site.

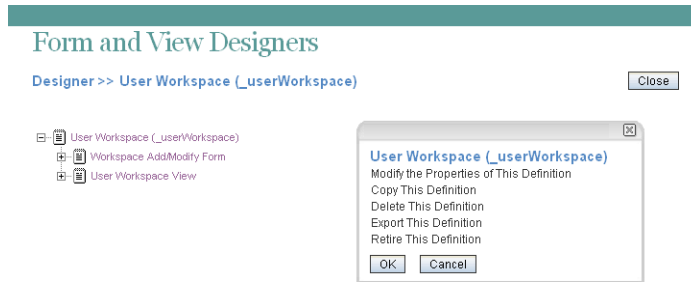
- ♦ “[Customizing the Default View for Existing and Future Personal Workspaces](#)” on page 26
- ♦ “[Customizing the Default View for Future Personal Workspaces](#)” on page 27

Customizing the Default View for Existing and Future Personal Workspaces

- 1 In the Workspace or Folder toolbar, click *Manage > Site Administration*, then click *Form and View Designers*.



- 2 Expand *User Workspace View*, then click *User Workspace*.



- 3 Add the form and view elements that you want your existing and future personal workspaces to contain by default.

For information on the kinds of elements that you can add and how to add them, see “[Designing a Custom Folder Entry Form](#)” in the *Kablink Teaming 2.0 Advanced User Guide*.

Customizing the Default View for Future Personal Workspaces

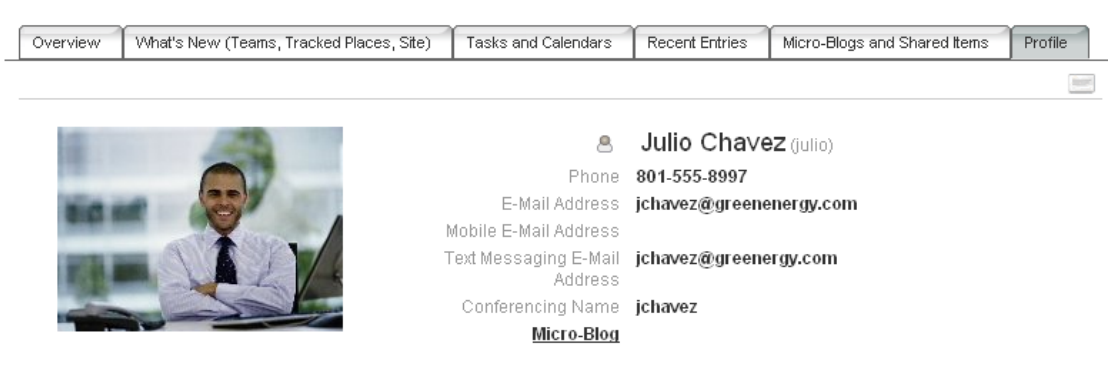
The procedure in this section affects only future personal workspaces (workspaces that have not yet been created). For information on how to change the default view for existing workspaces as well as future workspaces, see “[Customizing the Default View for Existing and Future Personal Workspaces](#)” on page 26.

- 1 In the Workspace or Folder toolbar, click *Manage > Site Administration*, then click *Manage Workspace and Folder Templates*.
- 2 Click *User workspace*.
- 3 For information on the types of modifications that you can make to the User Workspace template, see [Section 13.1, “Modifying Workspace and Folder Templates,”](#) on page 75.

3.2.3 Customizing the Default View of the Profile Tab

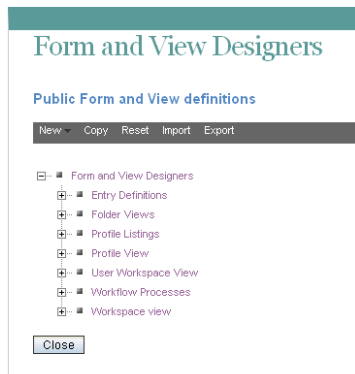
You can customize the default user profile view. This is the view that appears in the *Profile* tab of a user’s personal workspace. This view determines what information is displayed in all user profiles.

Figure 3-1 *User Profile Tab*

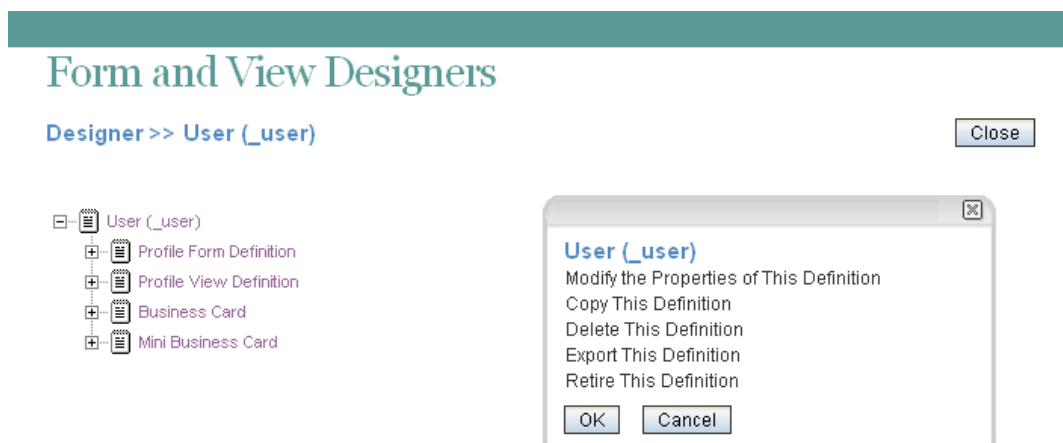


To modify what information is displayed in the *Profile* tab:

- 1 In the Workspace or Folder toolbar, click *Manage > Site Administration*, then click *Form and View Designers*.



- 2 Expand *Profile View*, then click *User*.
The User Designer page is displayed.



- 3 Depending on how extensively you want to customize the information in the *Profile* tab, continue with either of the following sections:
 - ♦ “Adding Elements to the Profile Tab” on page 28
 - ♦ “Adding, Deleting, and Modifying Elements in the Profile Tab” on page 29

Adding Elements to the Profile Tab

If you are mostly satisfied with the layout and elements that are included in the *Profile* tab, and simply want to add additional elements to the current view (elements that you add must appear after the default elements), then you can add elements to the profile view in the same way that you add elements to any other view.

For information on how to add form and view elements, see “[Designing the Workspace View](#)” in the *Kablink Teaming 2.0 Advanced User Guide*.

If you want to change the order of the elements, delete elements, or change the layout of the profile view, follow the instructions in [“Adding, Deleting, and Modifying Elements in the Profile Tab”](#) on page 29.

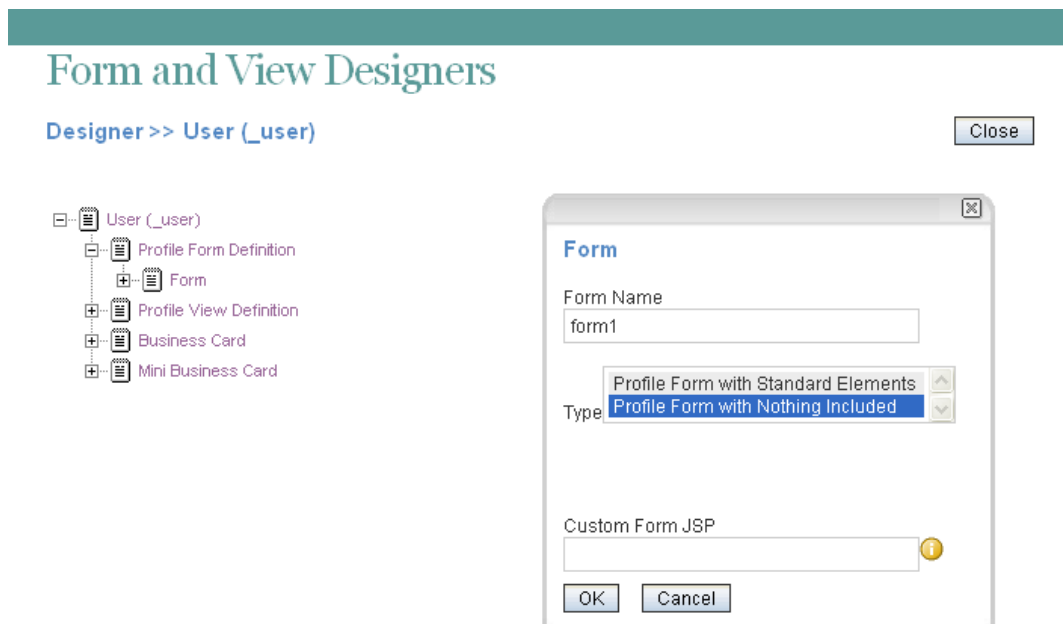
Adding, Deleting, and Modifying Elements in the Profile Tab

If you want to modify the profile view in any of the following ways, then you must follow the instructions in this section:

- ♦ Delete elements
- ♦ Modify elements
- ♦ Modify the layout of elements

To modify the profile view:

- 1 Expand *Profile Form Definition*, then click *Form*.
- 2 In the *Form* window on the right side of the page, click *Modify*.



- 3 In the *Type* section, select *Profile Form with Nothing Included*, then click *OK*.
- 4 Modify the elements and layout option of the profile view to suit your needs.

For information on how to add form and view elements, see [“Designing the Workspace View”](#) in the *Kablink Teaming 2.0 Advanced User Guide*.

3.2.4 Adding LDAP Elements to the Profiles Tab

If there is information in your LDAP source that does not have a corresponding element in Teaming, and you want that information to be displayed in the Teaming *Profile* tab, then you can create an element in the profile view as described in [Section 3.2.3, “Customizing the Default View of the](#)

Profile Tab,” on page 27. After you have created the element, you can synchronize that element with the corresponding information from LDAP, as described in **Section 11.1.2, “Synchronizing Additional LDAP Attributes,” on page 67.**

3.3 Organizing Team Workspaces

- **Section 3.3.1, “Understanding Team Workspaces,” on page 30**
- **Section 3.3.2, “Creating a Team Workspace Root Workspace,” on page 30**
- **Section 3.3.3, “Creating a Team Workspace,” on page 31**

See also **Chapter 12, “Managing Workspaces,” on page 73.**

3.3.1 Understanding Team Workspaces

When you create your Kablink Teaming site, a workspace named Team Workspaces is automatically created.



You as the Teaming administrator are responsible to determine how team workspaces should be organized. Without guidance, Teaming users will inevitably create chaos under the Team Workspaces directory.

You might want to organize team workspaces to parallel your business organization. If appropriate, you might have a level for geographical areas. You would typically want a level for departmental areas, and perhaps even for projects within departments. In addition, you must decide which teaming users need what kind of access to which teams. Creating groups, as described in **Section 4.2, “Creating Groups of Users,” on page 40**, facilitates creating teams because you do not need to add users to teams individually.

In the Team Workspaces directory that is automatically created when you install Teaming, you can create other Team Workspace Root workspaces. A Team Workspace Root workspace is designed to contain multiple team workspaces, so use this type of workspace if you want to create additional team workspaces as sub-workspaces to this workspace.

3.3.2 Creating a Team Workspace Root Workspace

After you have planned the hierarchical organization of the team workspaces for your Kablink Teaming site, you can start to implement it by creating Team Workspace Root workspaces, as described in **“Creating and Managing a Team Workspace Root Workspace” in the *Kablink Teaming 2.0 Advanced User Guide*.**

3.3.3 Creating a Team Workspace

In the Team Workspaces directory, or in the Team Workspace Root workspaces that you have created:

- 1 Create each team workspace, as described in “[Creating a Team Workspace](#)” in “[Getting Started](#)” in the *Kablink Teaming 2.0 User Guide*.
- 2 Set the access controls on the team workspace, as described in [Section 2.3.2, “Controlling User Access to Team Workspaces,”](#) on page 17.

3.4 Establishing Global Workspaces

A global workspace is intended to present very high-level information that would be of interest to all Kablink Teaming users. It might include a Frequently Asked Questions (FAQ) workspace to help new Teaming users find their way around in the organization of team workspaces that you have set up. It might provide a place to post company-wide news. All global workspaces must be created under *Home Workspace > Global Workspaces* on the Teaming site.

You might want to use geography to organize your company’s global information, and then use departmental categories (*Engineering, Human Resources, Marketing*) to further organize the information. Or, depending on your organization, you might want to reverse the order (function followed by geography), or use some other organizational scheme.

We strongly recommend that you limit the creation of global workspaces. First, organic team creation is the more effective use model for this product. Second, we have worked with a significant number of customers who duplicated complex organizational charts in the structure of global workspaces, and users found them to be confusing and unusable. Instead, populate the global area with a minimal amount of information, and let users guide you as to a useful structure and content in this area.

3.5 Establishing Workspace and Folder Templates

Templates in Kablink Teaming are a powerful way to create consistent custom folders and workspaces. If you are not satisfied with the way default workspaces and folders behave, you can either modify the current templates, or create new templates.

- ♦ [Section 3.5.1, “Understanding Templates,”](#) on page 31
- ♦ [Section 3.5.2, “Understanding Default Workspace and Folder Templates,”](#) on page 32
- ♦ [Section 3.5.3, “Creating Workspace and Folder Templates,”](#) on page 35

3.5.1 Understanding Templates

Workspace and Folder Templates are a powerful and efficient way to manage your Kablink Teaming site. They enable you to customize the default features, default layout, and default access control settings of the workspaces and folders throughout your Teaming site.

For example, the Team Workspaces template is used when any team workspace is created. By default, the access control settings for the Team Workspaces template specify that only team members are able to view the team workspace. However, if you want to run a more relaxed Teaming site and allow all Teaming users to view any team workspace, you can simply modify the access control settings for the Team Workspaces template.

For information about the specific access control roles that you can assign to various users in Teaming, see “[Understanding Access Control](#)” in the *Kablink Teaming 2.0 Advanced User Guide*.

- ♦ “[Creating Templates or Modifying Existing Templates](#)” on page 32
- ♦ “[Templates vs. Form and View Designers](#)” on page 32

Creating Templates or Modifying Existing Templates

You can modify existing templates, like the Team Workspaces template, or you can create your own custom templates. When you create a new template, all teaming users have access to that template when they create new workspaces or folders. When you modify existing templates, users who create new workspaces and folders see only the modified template.

For more information on the default templates that are included in Kablink Teaming, see [Section 3.5.2, “Understanding Default Workspace and Folder Templates,”](#) on page 32.

Templates vs. Form and View Designers

Kablink Teaming provides two methods of customizing the default features and default layout of workspaces and folders in your Teaming site. Depending on your situation, you might want to use either of these methods.

- ♦ **Templates:** If users have not yet started using your Teaming site, use templates to create and modify custom folder and workspace views. Typically, templates are easier to work with than the Form and View Designers tool; however, changes that you make to templates affect only those workspaces and folders that are created after the template was modified.
- ♦ **Form and View Designers Tool:** If users have already started using your Teaming site, you might want to use the Form and View Designers tool to create and modify folder and workspace views. When you modify folder and workspace views by using the Form and View Designers tool, all modifications are displayed in existing workspaces and folders.

For information on using the Form and View Designers tool to create new workspace and folder views, see “[Creating Custom Workspace Views](#)” and “[Creating Custom Folder Views](#)” in the *Kablink Teaming 2.0 Advanced User Guide*.

3.5.2 Understanding Default Workspace and Folder Templates

By default, Kablink Teaming provides basic default templates for various types of workspaces and folders. If the default workspace and folder templates are not sufficient for your needs, you can either modify these templates, as described in [Section 13.1, “Modifying Workspace and Folder Templates,”](#) on page 75, or create new templates, as described in [Section 3.5.3, “Creating Workspace and Folder Templates,”](#) on page 35.

The following sections outline the default workspace and folder templates that are provided in Teaming:

- ♦ “Default Workspace Templates” on page 33
- ♦ “Default Folder Templates” on page 34

Default Workspace Templates

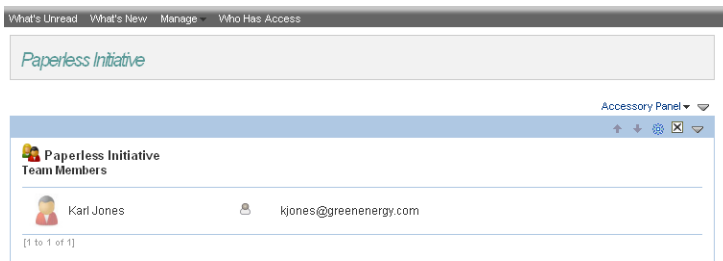
- ♦ Discussions Workspace
- ♦ Project Management Workspace
- ♦ Team Workspace
- ♦ Workspace (Basic)
- ♦ Landing Page
- ♦ User Workspace

Following are some examples of default workspace templates:

- ♦ “Team Workspace” on page 33
- ♦ “User Workspace” on page 34

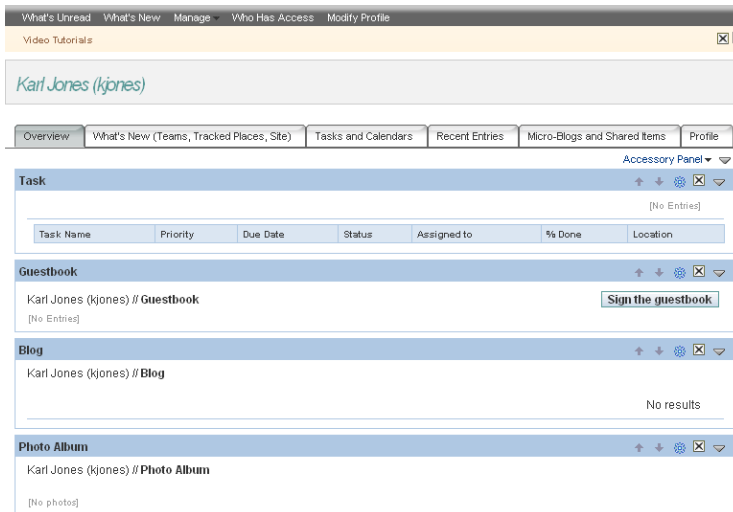
Team Workspace

Figure 3-2 Team Workspace Template Example



User Workspace

Figure 3-3 *User Workspace Template Example*



Default Folder Templates

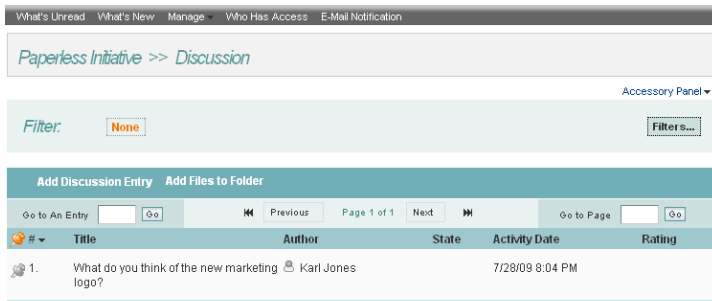
- ◆ Discussion
- ◆ Blog
- ◆ Calendar
- ◆ Guestbook
- ◆ File Folder
- ◆ Milestone Folder
- ◆ Micro-Blog
- ◆ Mirrored File Folder
- ◆ Photo Album
- ◆ Survey Folder
- ◆ Task Folder
- ◆ Wiki

Following are some examples of default folder templates:

- ◆ “Discussion Folder” on page 35
- ◆ “Calendar Folder” on page 35

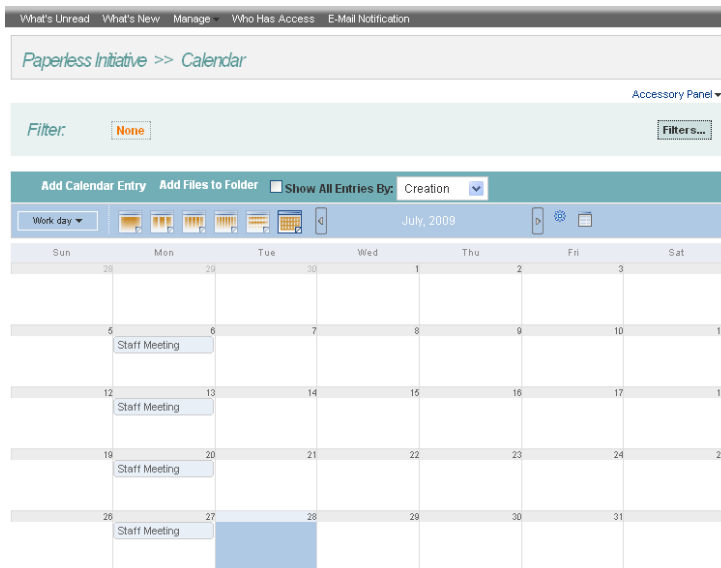
Discussion Folder

Figure 3-4 Discussion Folder Template Example



Calendar Folder

Figure 3-5 Calendar Folder Template Example



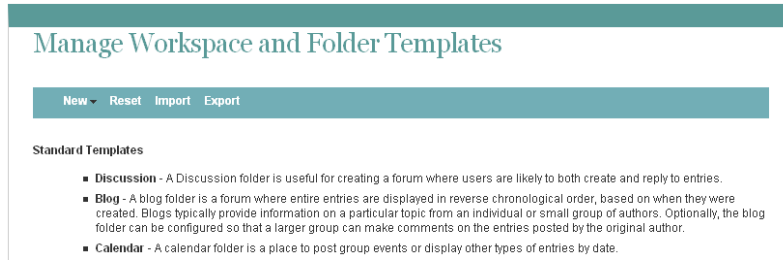
3.5.3 Creating Workspace and Folder Templates

Kablink enables you to create templates based on existing workspaces and folders; or, you can create new templates. You can also modify existing templates.

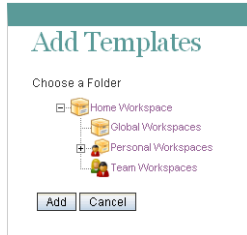
- ♦ “Creating Templates Based on Existing Workspaces and Folders” on page 35
- ♦ “Creating New Templates” on page 37
- ♦ “Modifying Existing Templates” on page 37

Creating Templates Based on Existing Workspaces and Folders

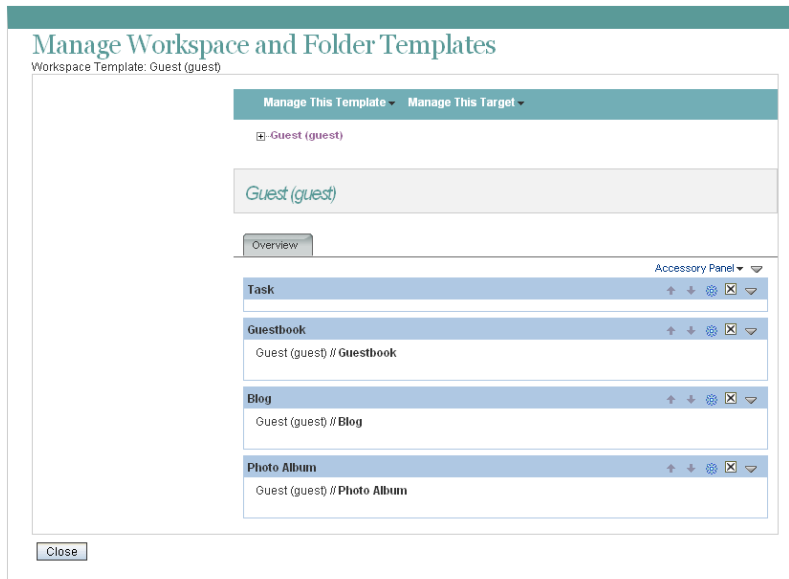
- 1 In the Workspace or Folder toolbar, click *Manage > Site Administration*, then click *Manage Workspace and Folder Templates*.



- 2 Click *New > Create a New Template from an Existing Workspace or Folder.*



- 3 Use the Workspace tree to navigate to and select the folder or workspace whose template you want to modify.
- 4 Click *Add*.



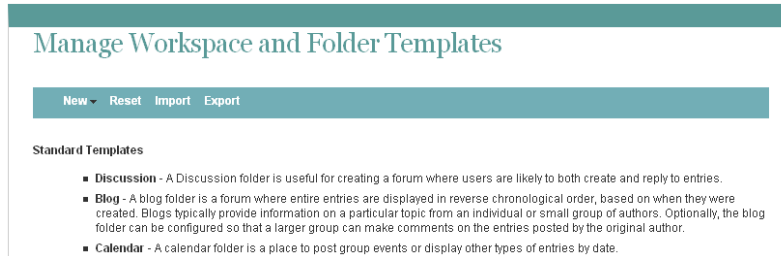
- 5 Modify the template as desired.

For information on how to modify a template after you have created it, see [Section 13.1, “Modifying Workspace and Folder Templates,”](#) on page 75.

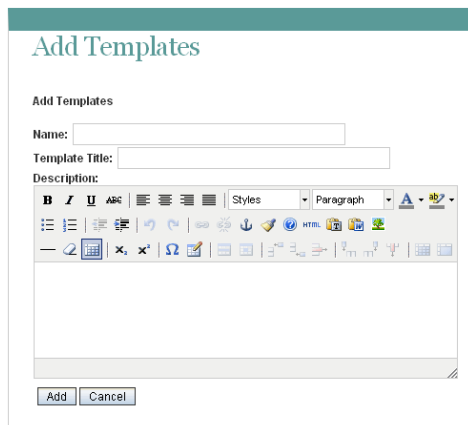
Creating New Templates

Teaming enables you to design completely new custom workspace or folder templates.

- 1 In the Workspace or Folder toolbar, click *Manage > Site Administration*, then click *Manage Workspace and Folder Templates*.



- 2 Click *New > Folder* or *Workspace*, depending on which type of template you want to create.



- 3 Fill in the following fields:

Name: Internal name of the template

For example, `custom_template`.

Template Title: Visible name of the template.

For example, `Custom Template`.

Description: Description of the template.

- 4 Click *Add > OK*.

The template is created.

- 5 Set up the template as desired.

For information on how to set up a template after you have created it, see [Section 13.1, “Modifying Workspace and Folder Templates,”](#) on page 75.

Modifying Existing Templates

Teaming enables you to modify default templates or custom templates that you have created.

For information on how to modify existing templates, see [Section 13.1, “Modifying Workspace and Folder Templates,”](#) on page 75.

Setting Up User Access to the Teaming Site

Adding existing users to your new Kablink® Teaming site was part of the installation process, as described in “[Adding Teaming Users from Your LDAP Directory](#)” in “[Basic Installation](#)” in the *Kablink Teaming 2.0 Installation Guide*.

However, as time passes, you need to add new users. Depending on the needs of your Teaming site, you might want to allow people to access the site even if they do not have Teaming user accounts in the Teaming system. You might even want to allow such people to create their own Teaming user accounts without you as an administrator doing it for them.

- ♦ [Section 4.1, “Adding New Users to Your Teaming Site,” on page 39](#)
- ♦ [Section 4.2, “Creating Groups of Users,” on page 40](#)
- ♦ [Section 4.3, “Allowing Guest Access to Your Teaming Site,” on page 41](#)
- ♦ [Section 4.4, “Allowing Guests to Create Their Own Teaming User Accounts,” on page 45](#)
- ♦ [Section 4.5, “Allowing Web Crawler Access to Your Teaming Site,” on page 46](#)

4.1 Adding New Users to Your Teaming Site

Kablink Teaming pulls user information from your LDAP directory service on the schedule that you set under *Manage > Site Administration > Configure LDAP*. The LDAP synchronization schedule was initially set up during installation, as described in “[User Synchronization Options](#)” in “[Basic Installation](#)” in the *Kablink Teaming 2.0 Installation Guide*. Therefore, to add new users to your Teaming site, you add the users to your LDAP directory, in a context from which Teaming synchronizes information.

NOTE: If you change user information on the Teaming site, the changes are not transferred back to your directory service.

To list all the users on your Teaming site, click *Personal Workspaces* in the Workspace tree.

The screenshot shows the Kablink Teaming web interface. The top navigation bar includes 'Sign Out', 'Favorites', 'My Teams', and 'My Workspace'. The main content area is titled 'Add User' and displays a table of users. The table has three columns: 'Full Name', 'E-Mail Address', and 'User Id'. The table lists several users, including 'admin', 'Ahman Dharmapalan', 'Alex Skoczylas', 'Anita Olivos', 'Art Ramirez', 'Basil Forsgren', 'Benji Gensomino', 'Chuck Bolton', and 'Doug Newman'. Each user entry includes a small profile icon next to their name.

Full Name	E-Mail Address	User Id
admin		admin
Ahman Dharmapalan	adharmapalan@yourcompanyname.com	adharmapalan
Alex Skoczylas	askoczylas@yourcompanyname.com	askoczylas
Anita Olivos	aolivos@yourcompanyname.com	aolivos
Art Ramirez	aramirez@yourcompanyname.com	aramirez
Basil Forsgren	bforsgren@yourcompanyname.com	bforsgren
Benji Gensomino	bgensomino@yourcompanyname.com	bgensomino
Chuck Bolton	cbolton@yourcompanyname.com	cbolton
Doug Newman	dnewman@yourcompanyname.com	dnewman

Navigation controls enable you to scroll through a long list. If you want to add a user who is not in your LDAP directory, click *Add User*, then provide the user's information. A user who is added in this manner is a local Teaming user and is not added to your LDAP directory.

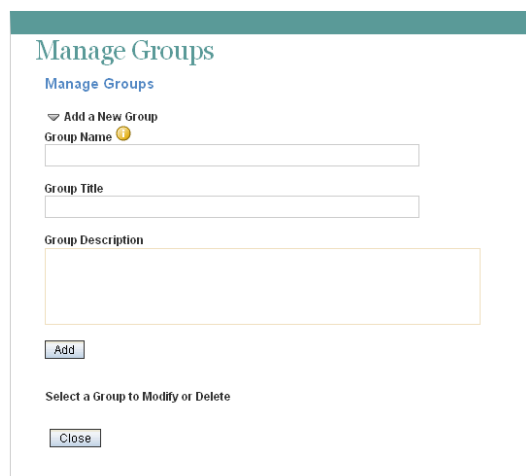
4.2 Creating Groups of Users

You might have chosen to synchronize groups of users from your LDAP directory to your Kablink Teaming site, as described in “[User Synchronization Options](#)” in “[Basic Installation](#)” in the *Kablink Teaming 2.0 Installation Guide*.

In addition, you can create additional groups to facilitate access control on your Teaming site. For background information on access control, see “[Controlling User Access](#)” in the *Kablink Teaming 2.0 Advanced User Guide*. Groups also facilitate team creation, as described in “[Creating a Team Workspace](#)” in “[Getting Started](#)” in the *Kablink Teaming 2.0 User Guide*.

Users are responsible for access control in their personal workspaces and any team workspaces that they create. You as the Teaming site administrator are responsible for access control in public locations such as global workspaces. By creating groups of users who have attributes in common, you and other Teaming users can set access controls and create teams without listing users individually. Groups can be nested within groups, so create small groups first, then build larger groups from your smaller groups.

- 1 Log in to the Teaming site as the Teaming administrator.
- 2 Click *Manage > Site Administration*.
- 3 Click *Manage Groups*, then click *Add a New Group*.



- 4 Fill in the fields:

Group Name: Specify the unique name under which the group is stored in the Teaming database. The first character must be an alphabetic character (a-z, A-Z). For the rest of the name, legal characters are alphanumeric characters (a-z, A-Z, 0-9), hyphens (-), and underscores (_).

Group Title: Specify the group name that displays to users on the Teaming site. This string can include any characters that you can type.

Group Description: Describe what the members of this group have in common.

- 5 Click *Add* to create the group.
- 6 Click the new group in order to add users to it.

Managers (managers)

► Modify the Group Title or Description

Modify the Group Membership

Users ☐
People

Groups ☐
Find Groups

► Clipboard User Names

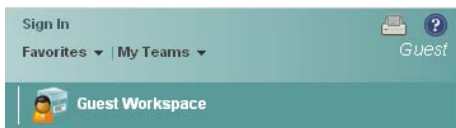
- 7 In the *Users* field, start typing the first or last name of a user.
A drop-down list displays possible matches.
- 8 Click a user to add the user to the group.
- 9 Repeat [Step 7](#) and [Step 8](#) for each user who you want to add to the group.

After you have created one or more small groups, you can use the *Groups* field to create larger groups from smaller groups. Also, if there's a place in your Teaming site that displays users that you want to create a group for, you can collect the users on the Teaming clipboard, as described in [“Using the Teaming Clipboard”](#) in [“Connecting With Your Co-Workers”](#) in the [Kablink Teaming 2.0 User Guide](#), then use *Clipboard User Names* to add the users on the Teaming clipboard to the group that you are creating.

- 10 When you are finished adding users to the group, click *Apply* > *Close*.

4.3 Allowing Guest Access to Your Teaming Site

When a person arrives at the Kablink Teaming site URL, the person is considered as a Guest user on the site, as indicated by the username displayed in the upper right corner of the page:



This page is also the main Teaming login page. Users with Teaming usernames can log in to their personal workspaces, and from there they can access any other locations where they have been granted access.

- ♦ [Section 4.3.1, “Understanding the Guest User,”](#) on page 42
- ♦ [Section 4.3.2, “Setting Up Guest Access,”](#) on page 42
- ♦ [Section 4.3.3, “Monitoring Guest User Access,”](#) on page 44

4.3.1 Understanding the Guest User

You as the administrator can choose whether you want people who do not have Kablink Teaming usernames to be able to access information on the Teaming site as the Guest user. When people visit your Teaming site as the Guest user, they can have some or all of the following experiences, depending on the access controls that you set for the Guest user:

- ♦ Any user that knows the Teaming site URL can click *Guest Workspace* on the Login page to display the Guest workspace.
- ♦ The Relevance Dashboard in the Guest workspace displays only the information that the Guest user has been specifically granted access to see.
- ♦ A Guest user can find out what is accessible on the Teaming site by pressing the down-arrow in the *Find Places* field.
- ♦ If a Guest user uses the Search feature, the only information returned is information that the Guest user has been granted access to see.
- ♦ When a Guest user adds a folder entry, the entry form requests the user's name and e-mail address. This information is displayed like a signature when the folder entry is viewed. Providing the name and e-mail address is optional.
- ♦ If you grant User Participant rights to the Guest user, people who access the Teaming site as the Guest user can modify and delete entries and comments posted by other people who have accessed the Teaming site as the Guest user.

4.3.2 Setting Up Guest Access

- 1 Log in to the Teaming site as the Teaming administrator
- 2 Click *Manage > Site Administration > Configure Guest Access and Self Registration*.



- 3 Make sure that *Allow Guest Access* is selected, then click *Close*.
Even though this option is selected by default, the Guest workspace is initially inaccessible because the default user access control settings do not allow access.
- 4 Click *Close* again to close the Site Administration page.
- 5 Click *Personal Workspaces* to expand the list, then enter *Guest* in the *Go to an Entry* field to display the Guest user's personal workspace.
- 6 Set the user access control settings on the Guest user's workspace:
 - 6a Click *Manage > Access Control*.

6b Change the user access control settings as needed:

Workspace Owner: By default, the Teaming site administrator owns the Guest user’s workspace. Click *Edit* to specify a new owner, select whether this change applies to folders under the Guest user’s workspace, then click *OK*.

Role Membership Inheritance By default, role membership is not inherited. Keep this setting.

7 Add the roles that you want the Guest user to be able to perform in the Guest workspace:

7a Click *Add User*, start typing *Guest*, then select the Guest user to add Guest to the User section of the Access Control table.

✓ designates the access control setting of the parent workspace

Add User Names from Clipboard

			Add a Role ▼			
			Participant	Team Member	Visitor	Workspace and Folder Administrator
	Owner of Workspace or Folder		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Team Members		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Add a Group ▼	Group Title	Group Name	Participant	Team Member	Visitor	Workspace and Folder Administrator
	All Users	allUsers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Add a User ▼	User Title	User Name	Participant	Team Member	Visitor	Workspace and Folder Administrator
	Guest	guest	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Add an Application Group ▼	Application Group Title	Application Group Name	Participant	Team Member	Visitor	Workspace and Folder Administrator
Add an Application ▼	Application Title	Application Name	Participant	Team Member	Visitor	Workspace and Folder Administrator

Save Changes

7b Select one or more roles that you want the Guest user to be able to perform on the Teaming site, for example:

Visitor: The Guest user can read entries and add comments or replies in folders in the Guest user workspace.

Participant: In addition to Visitor activities, the Guest user can also create new entries, and modify or delete his or her own entries.

For more information about the additional access control options, see “[Controlling User Access](#)” in the *Kablink Teaming 2.0 Advanced User Guide*.

7c Click *Save Changes*, then click *Close*.

8 (Conditional) If you want users in addition to the Teaming administrator to be able to grant Guest access to locations in your Teaming site:

8a Click *Manage > Site Administration*, then click *Access Control for Zone Administration Functions*.

Configure Access Control

Configure Access Control ⓘ
Close

Administrative Functions

Add User Names from Clipboard

Add a Role ▾

	Group Title	Group Name	Allow Adding Guest Access	Participant	Zone Administration
Add a User ▾	User Title	User Id	Allow Adding Guest Access	Participant	Zone Administration
	admin	admin	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

Add an Application Group ▾

	Application Group Title	Application Group Name	Allow Adding Guest Access	Participant	Zone Administration
	All Applications	allApplications		<input checked="" type="checkbox"/>	

Add an Application ▾

	Application Title	Application Name	Allow Adding Guest Access	Participant	Zone Administration
--	-------------------	------------------	---------------------------	-------------	---------------------

Save Changes

* Assigning roles to an application or application group at the zone level actually specifies the maximum set of rights that the application is allowed to use. This allows the site administrator to prevent applications from ever having more rights than are needed to perform its task. If no roles are assigned, then the application has no rights.

[Note: admin (admin) has been designated as the default site administrator with privileges to perform any task on any workspace or folder.]

Close

A basic Teaming site consists of a single zone. Novell Teaming allows you to set up multiple zones in a single Teaming site. This feature is not available in Kablink Teaming.

- 8b** Click *Add a User*, start typing the user’s name, then select the user from the drop-down list to add the user to the Access Control table.
 - 8c** Select *Allow Adding Guest Access* for the user.
 - 8d** Repeat **Step 8b** and **Step 8c** for each user who you want to be able to grant Guest access to locations on your Teaming site.
 - 8e** Click *Save Changes*, then click *Close*.
 - 8f** Notify the users who are allowed to grant Guest access.
- 9** Set up the Guest user’s personal workspace with whatever information you want to present to people who visit your Teaming site without logging in.
- For general suggestions on creating useful workspaces, see “[Managing and Using Workspaces](#)” in the *Kablink Teaming 2.0 User Guide*.
- 10** (Conditional) If you want the Guest user to be able to access content elsewhere on the Teaming site, add the Guest user to the Configure Access Control page for those workspaces or folders.
 - 11** Notify people who might be interested in accessing your Teaming site about your Teaming site URL.
 - 12** (Conditional) If you want information on your Teaming site to be searchable on the Internet, see [Section 4.5, “Allowing Web Crawler Access to Your Teaming Site,”](#) on page 46.

4.3.3 Monitoring Guest User Access

As the Kablink Teaming site administrator, you can create a report of all locations on the Teaming site that the Guest user can access. For instructions, see [Section 17.1.3, “User Access Report,”](#) on page 90.

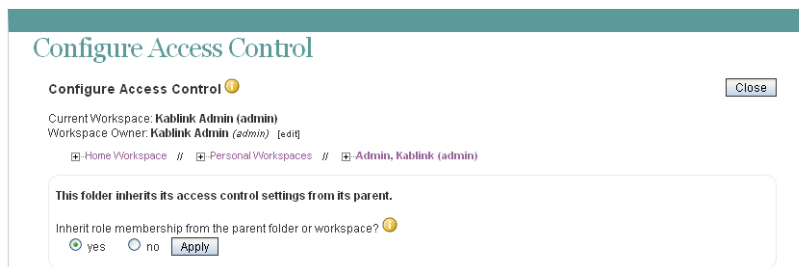
4.4 Allowing Guests to Create Their Own Teaming User Accounts

You can configure a Kablink Teaming site so that Guest users can create their own Teaming user accounts. This process is called self registration.

- ♦ [Section 4.4.1, “Granting Access to Create Personal Workspaces,” on page 45](#)
- ♦ [Section 4.4.2, “Enabling Self Registration,” on page 46](#)
- ♦ [Section 4.4.3, “Testing Self Registration,” on page 46](#)

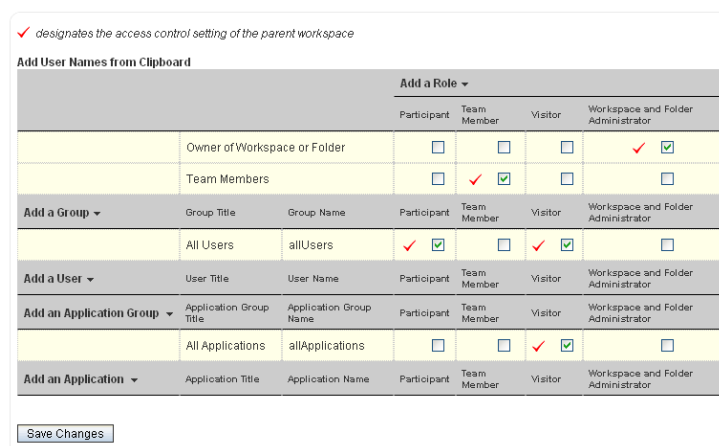
4.4.1 Granting Access to Create Personal Workspaces

- 1 Log in to the Teaming site as the Teaming administrator.
- 2 (Conditional) If you have not already done so, follow the instructions in [Section 4.3, “Allowing Guest Access to Your Teaming Site,” on page 41](#) to configure the Guest workspace.
- 3 Click *Personal Workspaces* in the Workspace tree.
- 4 Click *Manage > Access Control*.



- 5 Deselect *Inherit Role Membership*, then click *Apply*.

This enables you to add the Guest user to the Access Control table.



			Add a Role ▼			
			Participant	Team Member	Visitor	Workspace and Folder Administrator
Owner of Workspace or Folder			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Team Members			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Add a Group ▼						
	Group Title	Group Name	Participant	Team Member	Visitor	Workspace and Folder Administrator
	All Users	allUsers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Add a User ▼						
	User Title	User Name	Participant	Team Member	Visitor	Workspace and Folder Administrator
Add an Application Group ▼						
	Application Group Title	Application Group Name	Participant	Team Member	Visitor	Workspace and Folder Administrator
	All Applications	allApplications	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Add an Application ▼						
	Application Title	Application Name	Participant	Team Member	Visitor	Workspace and Folder Administrator

- 6 Click *Add a User*, start typing *Guest*, then select the Guest user from the drop-down list.
- 7 Select the Participant role for the Guest user, so that the Guest user can create entries in the Personal Workspaces workspace.

For more information about the additional access control options, see “[Controlling User Access](#)” in the *Kablink Teaming 2.0 Advanced User Guide*.

- 8 Click *Save Changes*, then click *Close*.

4.4.2 Enabling Self Registration

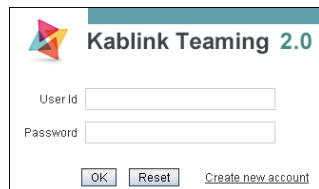
- 1 On the Workspace toolbar, click *Manage > Site Administration*.
- 2 Click *Configure Guest Access and Self Registration*.



- 3 Select *Allow People to Create Their Own Accounts*.
- 4 Click *Apply*, then click *Close*.

4.4.3 Testing Self Registration

- 1 Log out as the Teaming site administrator.
The Login page now displays a *Create New Account* link.



- 2 Click *Create New Account*.
- 3 Fill in the required fields (*User ID*, *Password*, and *Text Verification*).
- 4 (Optional) Fill in additional fields with personal contact information and location information.
- 5 Click *OK* to create the new Teaming user account and return to the Login page.
- 6 Specify the Teaming user ID and password, then click *OK* to log into the new Teaming account.

4.5 Allowing Web Crawler Access to Your Teaming Site

If you allow Guest access to your Kablink Teaming site, as described in [Section 4.3, “Allowing Guest Access to Your Teaming Site,”](#) on page 41, you can provide Internet search engines (such as Google) with the Teaming permalinks for workspaces and folders that you would like to make

publicly available on the Internet. A Teaming permalink is the complete URL that someone outside of your Teaming site and outside of your organization, such as a [Web crawler \(http://en.wikipedia.org/wiki/Web_crawler\)](http://en.wikipedia.org/wiki/Web_crawler), could use to access a specific location on your Teaming site.

- 1 To determine the permalink of a workspace, click *Workspace Permalinks* at the bottom of a workspace page.

or

To determine the permalink of a folder, click *Folder Permalinks* at the bottom of a folder page.

Configuring E-Mail Integration

5

Initial e-mail configuration is performed when you install Kablink® Teaming. Additional aspects of e-mail handling are configured on the Teaming site.

- ♦ [Section 5.1, “Enabling/Disabling Outbound E-Mailing of Folder Digests,”](#) on page 49
- ♦ [Section 5.2, “Disabling/Enabling Inbound E-Mail Postings,”](#) on page 50

5.1 Enabling/Disabling Outbound E-Mailing of Folder Digests

During installation, you configured Kablink Teaming to communicate with your e-mail system, as described in “[Gathering Outbound E-Mail Information](#)” in “[Basic Installation](#)” in the *Kablink Teaming 2.0 Installation Guide*. As a result, Teaming users can send e-mail messages to other Teaming users and to anyone whose e-mail address they know. They can also send e-mail notifications when they create workspaces, add folder entries, and so on.

In addition to this basic e-mail functionality, you can configure your Teaming site so that users can receive folder digests of site activity that are created and sent to the users who have subscribed to the folders.

- 1 Log in to the Teaming site as the Teaming administrator.
- 2 Click *Manage > Site Administration*, then click *Configure E-Mail*.



- 3 Select *Enable Outgoing E-Mail*.
By default, folder digests are compiled and sent daily at fifteen minutes after midnight.
- 4 Adjust the schedule as needed to meet the needs of the majority of your Teaming users.
Users can turn the digests on and off for individual folders, but they cannot change the e-mail schedule that you establish.
- 5 Click *Apply* to save the settings, then click *Close*.

For information about the options that users have for receiving e-mail notifications, see “[Subscribing to a Folder or Entry](#)” in “[Getting Informed](#)” in the *Kablink Teaming 2.0 User Guide*.

5.2 Disabling/Enabling Inbound E-Mail Postings

During installation, you configured Kablink Teaming to include an internal SMTP mail host for receiving e-mail postings to folders, as described in “[Enabling Inbound E-Mail](#)” in “[Basic Installation](#)” in the *Kablink Teaming 2.0 Installation Guide*. Your selection during installation carries over into the configuration of your Teaming site. Therefore, you can disable incoming e-mail if necessary, and then enable it again on the Teaming site. Relaying is permanently disabled on the internal SMTP mail host.

- 1 Log in to the Teaming site as the Teaming administrator.
- 2 Click *Manage > Site Administration > Configure E-Mail*.



The screenshot shows a web form titled "Configure E-Mail (enable or disable incoming and outgoing e-mail)". It has two main sections. The first section, "Enable Outgoing E-Mail", is checked and includes a "Send E-Mail Notifications (outgoing)" section with three options: "Every Day" (selected), "Weekly (on the days selected below)" (with checkboxes for Sun, Mon, Tue, Wed, Thu, Fri, Sat), and "At Time" (set to 00:15 GMT). There is also a "Repeat Every" option set to 0.25 hours. The second section, "Enable Incoming E-Mail Using the Embedded E-Mail Server and Simple URLs", is unchecked. Both sections have "Apply" and "Close" buttons.

- 3 Select or deselect *Enable Incoming E-Mail Using the Embedded E-Mail Server and Simple URLs*.
- 4 Click *Apply > Close* to save the setting.

For information about how to configure folders to receive e-mail postings, see “[Enabling Folders to Receive Entries through E-Mail](#)” in “[Managing Folders](#)” in the *Kablink Teaming 2.0 Advanced User Guide*. Failed e-mail postings are listed in the Tomcat log file. For background information about the Tomcat log file, see [Section 17.2.2, “Tomcat Log File,”](#) on page 95.

Configuring Real-Time Communication Tools

6

From the Teaming site, Teaming users can communicate with each other in various ways.

- [Section 6.1, “Integrating Conferencing with Teaming,” on page 51](#)
- [Section 6.2, “Integrating Skype with Teaming,” on page 51](#)

6.1 Integrating Conferencing with Teaming

Kablink Teaming enables you to integrate with Kablink Conferencing, so that Teaming users can easily set up instant conferencing meetings with other Teaming users, as described in [Using Kablink Conferencing with Kablink Teaming](#) in “[Connecting With Your Co-Workers](#)” in the *Kablink Teaming 2.0 User Guide*.

For setup instructions, see “[Configuring Presence](#)” in “[Advanced Installation and Reconfiguration](#)” in the *Kablink Teaming 2.0 Installation Guide*.

6.2 Integrating Skype with Teaming

Kablink Teaming enables you to integrate with Skype*, so that Teaming users can easily contact other Teaming users directly from the Teaming interface using Skype.

Before users are able to make Skype phone calls from inside Teaming, you first need to configure Teaming to support Skype. You do this by modifying the user profile form to include a *Skype Name* field.

- 1 Log in to Teaming as the Teaming administrator.
- 2 In the Folder or Workspace toolbar, click *Manage > Site Administration*.
- 3 On the Site Administration page, click *Form and View Designers*.
The Form and View Designers page is displayed.
- 4 Expand *Profile View*, then click *User*.
- 5 On the Form and View Designers User page, expand *Profile Form Definition*, then click *Form*.
- 6 In the Form window on the right side of the page, click *Add*.
- 7 In the Form window, in the *Standard Form Elements* section, click *Skype Name*.
- 8 Click *OK*.

Users are now able to specify a Skype name in their personal profiles.

For more information on how you can use Skype to contact other Teaming users from inside Teaming, see “[Using Skype From within Teaming](#)” in “[Connecting With Your Co-Workers](#)” in the *Kablink Teaming 2.0 User Guide*.

Adding Software Extensions

7

You can customize your Kablink® Teaming site through the use of software extensions. Teaming administrators or Teaming developers can create custom extensions (add-ons) that enhance the power and usefulness of the Teaming site. This section discusses how to add software extensions that have already been created.

- ♦ [Section 7.1, “Creating a Software Extension,” on page 53](#)
- ♦ [Section 7.2, “Deploying a Software Extension,” on page 53](#)

7.1 Creating a Software Extension

For information on how to create a custom software extension for Kablink Teaming, see “[Packaging Extensions for Deployment](#)” in the *Kablink Teaming 2.0 Developer Guide*.

7.2 Deploying a Software Extension

After a software extension has been created, you need to deploy it into the Kablink Teaming site.

- ♦ [Section 7.2.1, “Prerequisites,” on page 53](#)
- ♦ [Section 7.2.2, “Deploying the Extension,” on page 53](#)

7.2.1 Prerequisites

Before you deploy the software extension, ensure the following:

- ♦ You must have access to the software extension’s WAR file.
- ♦ You must have access to the host operating system where you will copy the WAR file.

7.2.2 Deploying the Extension

- 1 Change to the following directory:

```
Linux:      /opt/novell/teaming/apache-tomcat-version/  
            webapps/ssf/WEB-INF/classes/config  
  
Windows:   c:\Program Files\Novell\Teaming\apache-tomcat-version\  
            webapps\ssf\WEB-INF\classes\config
```

- 2 Open the `ssf-ext.properties` file in a text editor.
- 3 Locate the following line:

```
data.extension.root.dir=directory
```
- 4 Make a note of the directory.
- 5 Close the `ssf-ext.properties` file without saving it.
- 6 Change to the directory listed in the `ssf-ext.properties` file, then change to the `extensions` subdirectory.

The `extensions` subdirectory has a subdirectory for each zone in your Teaming system. The default zone name for a Teaming 2.0 system is `kablink`.

- 7** Place the `WAR` file in the subdirectory for zone where you want the extension to be available.

Using Remote Applications on Your Teaming Site

8

A remote application is a program that runs on a remote server and delivers data for use on your Kablink® Teaming site (for example, data from a remote database).

- ♦ [Section 8.1, “Creating a Remote Application,” on page 55](#)
- ♦ [Section 8.2, “Adding a Remote Application to Your Teaming Site,” on page 55](#)
- ♦ [Section 8.3, “Creating an Application Group,” on page 57](#)
- ♦ [Section 8.4, “Implementing Remote Applications on Your Teaming Site,” on page 58](#)

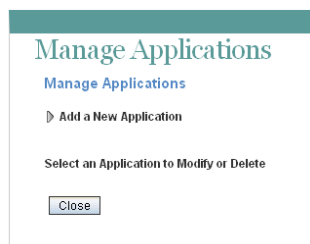
8.1 Creating a Remote Application

For information on how to create and build a remote application, see “[Remote Applications](#)” in the *Kablink Teaming 2.0 Developer Guide*.

8.2 Adding a Remote Application to Your Teaming Site

After you or a developer have created a remote application, you need to make it available on your Kablink Teaming site.

- 1 As the Teaming site administrator, click *Manage > Site Administration*, then click *Manage Applications*.



- 2 Click *Add a New Application*.

Manage Applications

Manage Applications

▼ Add a New Application

Title
Hello world

Name ⓘ
helloworld

Description
This "hello world" application says hello to the user by name.

☐ **Trusted**

Teaming Initiates Interactions

Post URL
http://localhost:8080/remotapp/helloWorld

Post Timeout in seconds (0 means No Timeout)
10

Application Initiates Interactions

Maximum Idle Time in seconds (0 means No Timeout)
3600

☒ **Same Address Policy**

Add

3 Fill in the following fields:

Title: Specify a unique title for the remote application. Teaming site users who add the remote application to a form or view can select the title from the list of available remote application.

Name: Specify a unique name for the remote application. The name is for internal use in the Teaming database. The first character must be an alphabetic character (a-z, A-Z). For the rest of the name, legal characters are alphanumeric characters (a-z, A-Z, 0-9), hyphens (-), and underscores (_).

Description: Provide a description of what the remote application does.

Trusted: Select *Trusted* if the application is extremely trustworthy (for example, you write, maintain, and run the application on the same server that runs Teaming). If you select *Trusted*, Teaming applying access control only according the viewing user's access control settings. For complete information about access control, including the advantages and disadvantages of using the *Trusted* setting, see “[Managing Remote Applications](#)” in the *Kablink Teaming 2.0 Developer Guide*.

Post URL: Specify the URL of the remote application. Teaming posts requests for information, along with the requesting user and a security token for use by Teaming Web services, to this URL, then waits to receive the requested HTML snippets for posting on the Teaming site.

Post Timeout: Specify the number of seconds that Teaming should wait for a response from the remote application before it assumes that the remote application is not available. The default is 60 (1 minute). If Teaming does not receive a response from the remote application, it displays the page requested by the user without any input from the remote application.

Maximum Idle Time: Specify the number of seconds that Teaming maintains idle connections through Teaming Web service with a remote application. The default is 3600 (1 hour). After the maximum idle time as elapses, Teaming closes idle connections.

Same Address Policy: Select this option if interactions with the Teaming site are initiated by the remote application, and if the remote application must communicate with Teaming through the same Teaming Web services machine using the same security token for the entire communication.

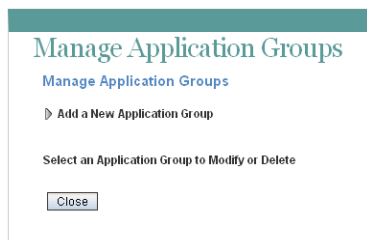
- 4 Click *Add* to add the remote application to the list of remote applications that are available on your Teaming site, then click *Close*.

Users now see the new remote application in the list of tools within the designers and the tool used to create accessories.

8.3 Creating an Application Group

If you create a number of remote applications for your Kablink Teaming site, you can create application groups for remote applications that all could be assigned the same roles in the Access Control table. For example, you might have a group of remote applications that are allowed to perform administrative tasks and another group of remote applications that are granted only read access.

- 1 As the Teaming site administration, click *Manage > Site Administration*, then click *Manage Application Groups*.



Manage Application Groups

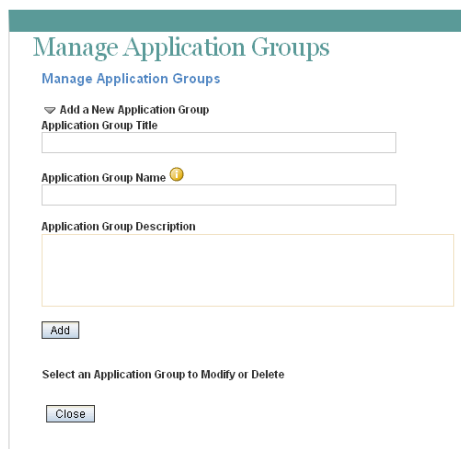
Manage Application Groups

► Add a New Application Group

Select an Application Group to Modify or Delete

Close

- 2 Click *Add a New Application Group*.



Manage Application Groups

Manage Application Groups

▼ Add a New Application Group

Application Group Title

Application Group Name ⓘ

Application Group Description

Add

Select an Application Group to Modify or Delete

Close

- 3 Fill in the following fields:

Application Group Title: Specify a unique title for the remote application group. Teaming site users who need to set access controls for a remote application can select the title from the list of available remote application groups.

Application Group Name: Specify a unique name for the remote application group. The name is for internal use in the Teaming database. The first character must be an alphabetic character (a-z, A-Z). For the rest of the name, legal characters are alphanumeric characters (a-z, A-Z, 0-9), hyphens (-), and underscores (_).

Application Group Description: Provide a description of the types of remote applications that the application group includes.

- 4 Click *Add* to add the application group to the list of application groups that are available on your Teaming site, then select the new application group in order to add remote applications to it.



- 5 Fill in the following fields:

Applications: Start typing the title of a remote application, then select the remote application. Repeat for each application that you want to add to the application group.

Application Groups: Start typing the title of an existing application group that you want to nest in the new application group, then select the application group. Repeat for each application group that you want to nest in the application group.

- 6 Click *Apply* to save the application group membership, then click *Close*.

8.4 Implementing Remote Applications on Your Teaming Site

After you as the Kablink Teaming administrator have added remote applications to the Teaming site, users can implement them in custom forms and views, in workspaces and as accessories. For instructions, see “[Managing Remote Applications](#)” in the *Kablink Teaming 2.0 Advanced User Guide*.

Customizing Your Teaming Site by Editing Teaming Properties

9

Most customization of your Kablink™ Teaming site can be done while viewing the Teaming site in your browser. A few useful customizations must be done by editing properties files.

- ♦ [Section 9.1, “Increasing the File Upload Size Limit,” on page 59](#)
- ♦ [Section 9.2, “Changing Global File Associations for Edit in Place Applications,” on page 59](#)

9.1 Increasing the File Upload Size Limit

The default size limit for uploading files into your Teaming site is 2 GB. You can change this limit by editing the `applicationContext.xml` file.

- 1 Change to the following directory:

```
Linux:      /opt/novell/teaming/apache-tomcat-version/  
            webapps/ssf/WEB-INF/context  
  
Windows:   c:\Program Files\Novell\Teaming\apache-tomcat-version\  
            webapps\ssf\WEB-INF\context
```

- 2 Open the `applicationContext.xml` file in a text editor.

- 3 Search for `FileUpload`.

This brings you to a comment line followed by a JavaBean definition.

- 4 Copy the comment line and the complete Java bean definition to the clipboard of your text editor.

- 5 Open the `applicationContext-ext.properties` file, which is located in the same directory as the `applicationContext.xml` file.

- 6 Paste the block of lines you copied at the end of the `applicationContext-ext.xml` file.

- 7 Edit the `maxUploadSize` value as needed for your Teaming site.

You must specify the size in bytes.

- 8 Save and close the `applicationContext-ext.xml` file.

- 9 Close the `applicationContext.xml` file without saving it.

- 10 Stop and restart Teaming to put the new upload size limit into effect for your Teaming site.

9.2 Changing Global File Associations for Edit in Place Applications

When calling applications with the Edit in Place feature, Kablink Teaming uses standard file associations. If your organization uses different file associations, you can reconfigure Teaming to use the preferred file associations.

- 1 Change to the following directory:

Managing a Multi-Language Teaming Site

10

- ♦ [Section 10.1, “Accommodating Multiple Languages,” on page 61](#)
- ♦ [Section 10.2, “Adding a New Language,” on page 62](#)

10.1 Accommodating Multiple Languages

- ♦ [Section 10.1.1, “Understanding the Teaming Site Default Language,” on page 61](#)
- ♦ [Section 10.1.2, “Setting Up a Multilingual Workspace Name,” on page 61](#)
- ♦ [Section 10.1.3, “Changing the Default Language on the Login Page,” on page 61](#)

10.1.1 Understanding the Teaming Site Default Language

There can be only one default language for the entire Kablink™ Teaming site. You select the default language when you install Teaming, as described in “[Accommodating Multiple Languages](#)” in the *Kablink Teaming 2.0 Installation Guide*.

When you create Teaming users, you can select a locale for each user, which determines the language of each personal workspace. However, when users who speak various languages work together on a Teaming site, they can often see interface text that is not in their preferred language. Examples include:

- ♦ Standardized text such as *Home Workspace*, *Global Workspaces*, *Personal Workspaces*, and *Team Workspaces* at the top of the Teaming Home page
- ♦ Standardized group names, such as All Users
- ♦ Login page

Although you cannot change standardized group names, such as All Users, you can rename the standardized workspaces to include multiple languages. Although the Teaming login page can be displayed in only one language, you can change the page’s default language. You must be logged in as the Teaming administrator in order to perform these tasks.

10.1.2 Setting Up a Multilingual Workspace Name

- 1 Browse to the workspace.
- 2 Click *Manage > Modify This Workspace*.
- 3 In the *Title* field, add text in another language, then click *OK*.

10.1.3 Changing the Default Language on the Login Page

The language of the Kablink Teaming login page is decided by the Guest user account. Because of this, you can display in the login page only one language for your entire Teaming site.

To change the language of the Guest user account, and therefore change the language that is displayed on the Teaming login page:

- 1 Navigate to the Guest workspace.
- 2 In the Workspace toolbar, click *Manage Profile > Modify*.
The User page is launched.
- 3 In the *Locale* drop-down list, select the language that you want to be displayed on your login page.
Users who log in as Guest view the Teaming site in the language that you select.
- 4 Click *OK*.

10.2 Adding a New Language

- ♦ [Section 10.2.1, “Current Language Availability,” on page 62](#)
- ♦ [Section 10.2.2, “Text to Translate,” on page 63](#)
- ♦ [Section 10.2.3, “New Language Implementation,” on page 64](#)

10.2.1 Current Language Availability

Kablink Teaming is currently translated into 15 languages. Each language is identified by a language code in the Teaming software. Directory names and filenames include the language codes to identify the languages of directories and files.

- ♦ Chinese-Simplified (zh_TW)
- ♦ Chinese Traditional (zh_CN)
- ♦ Danish (da)
- ♦ Dutch (nl)
- ♦ English (en)
- ♦ French (fr)
- ♦ German (de)
- ♦ Hungarian (hu_HU)
- ♦ Italian (it)
- ♦ Japanese (ja)
- ♦ Polish (pl)
- ♦ Portuguese (pt_BR)
- ♦ Russian (ru_RU)
- ♦ Spanish (es)
- ♦ Swedish (sv)

Kablink Teaming is an open source project where additional languages can be contributed by interested members of the open source community.

10.2.2 Text to Translate

- ◆ “Software Interface Text and Pop-Up Text” on page 63
- ◆ “Help Topics” on page 63

Software Interface Text and Pop-Up Text

The files that contain the text strings in the Kablink Teaming interface (`messages_language_code.properties`) and in mouse-over pop-ups (`help-messages_language_code.properties`) are located in the following directory:

[illegible]

```
Windows: c:\Program Files\Novell\Teaming\apache-tomcat-version\
webapps\ssf\WEB-INF\messages
```

- 1 Identify the file in the language that you want to translate from.
- 2 Identify the language code for the language that you want to translate into.

Lists of standard [language codes](http://en.wikipedia.org/wiki/Language_code) (http://en.wikipedia.org/wiki/Language_code) are available on the Internet.
- 3 Create a copy of the file that you want to translate, and name it with the appropriate language code.
- 4 Edit the file to translate in a text editor.

Useful information for translators is provided at the top of each file (in English).
- 5 Locate the following line:

```
Teaming.Lang=
```
- 6 Replace the existing language code with the language code for the language that you want to translate into.

The lines in the file have the following format:

```
tag=string
```
- 7 In each line, replace the text after the equal sign (=) with your translation for the string.
- 8 Save your translated file along with the other translated files.
- 9 Configure Teaming to recognize the new language, as described in [Section 10.2.3, “New Language Implementation,” on page 64](#).

Help Topics

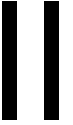
The language directories for the files that contain help topics are located in the following directory:

```
Linux: /opt/novell/teaming/apache-tomcat-version/webapps/ssf/help doc
```

Windows: c:\Program Files\Novell\Teaming\apache-tomcat-version\webapps\ssf\help doc

- 1 Create a new directory for the language you want to translate into, named for its language code.

Site Maintenance



- ♦ Chapter 11, “Managing Users,” on page 67
- ♦ Chapter 12, “Managing Workspaces,” on page 73
- ♦ Chapter 13, “Managing Workspace and Folder Templates,” on page 75
- ♦ Chapter 14, “Creating and Managing Workflows,” on page 81
- ♦ Chapter 15, “Managing the Lucene Index,” on page 83
- ♦ Chapter 16, “Backing Up Teaming Data,” on page 85
- ♦ Chapter 17, “Monitoring the Teaming Site,” on page 87

As time passes on your Kablink® Teaming site, users come and go, resulting in the need for periodic maintenance activities.

- ♦ [Section 11.1, “Synchronizing Users and GroupWise from an LDAP Directory,” on page 67](#)
- ♦ [Section 11.2, “Listing Teaming Users,” on page 68](#)
- ♦ [Section 11.3, “Renaming a Teaming User,” on page 69](#)
- ♦ [Section 11.4, “Deleting a Teaming User,” on page 71](#)
- ♦ [Section 11.5, “Managing Self-Registered Users,” on page 72](#)

11.1 Synchronizing Users and GroupWise from an LDAP Directory

- ♦ [Section 11.1.1, “Adjusting LDAP Synchronization of Users and Groups,” on page 67](#)
- ♦ [Section 11.1.2, “Synchronizing Additional LDAP Attributes,” on page 67](#)

11.1.1 Adjusting LDAP Synchronization of Users and Groups

When you initially set up your Kablink Teaming site, your main consideration for LDAP synchronization is to add users and groups from your LDAP directory into your Teaming site. As time passes, deletion of obsolete users and groups from your Teaming site becomes a larger concern. Periodically review the LDAP synchronization options described in “[LDAP Synchronization Options](#)” in “[Basic Installation](#)” in the *Kablink Teaming 2.0 Installation Guide* to ensure that obsolete users and groups are being managed properly.

11.1.2 Synchronizing Additional LDAP Attributes

By default, Teaming synchronizes the following attributes from the LDAP directory:

- ♦ First name
- ♦ Last name
- ♦ Phone number
- ♦ E-mail address
- ♦ Description

This information displays on each user’s *Profile* tab. You can synchronize additional LDAP attributes by modifying the *Profile* tab view and then reconfiguring LDAP synchronization to include the additional attributes.

- 1 Follow the instructions in [Section 3.2.3, “Customizing the Default View of the Profile Tab,” on page 27](#) to create fields on the *Profile* tab for displaying the LDAP attributes that you want to add.
- 2 On the Workspace toolbar, click *Manage > Site Administration*, then click *Configure LDAP*. The *Users* box lists the LDAP attributes that are currently being synchronized.

Users

LDAP Attribute That Identifies the User:

In the box below, map the internal identifiers to the LDAP attribute names of the user record. Use the following syntax: internal=ldapAttributeName

```

lastName=sn
lastName=surname
firstName=gn
description=description
emailAddress=mail
phone=telephoneNumber
firstName=givenName

```

The items in the list have the following format:

`teaming_field_name=ldap_attribute_name`

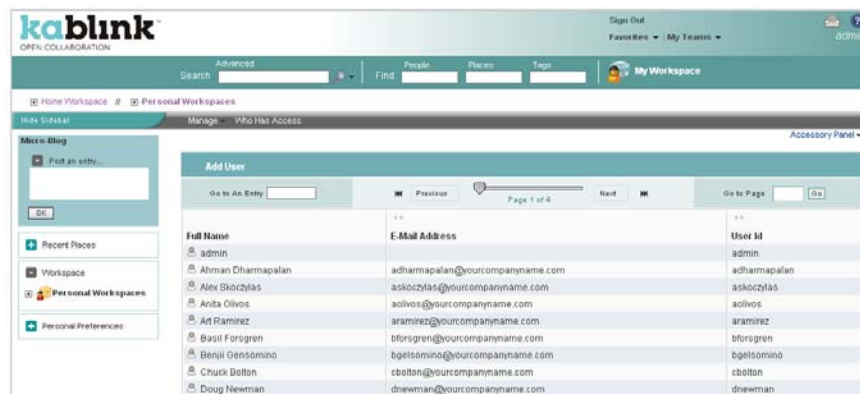
- 3 Add a new line to the list, specifying the Teaming field name to the left of the equal sign (=) and the LDAP attribute name to the right of the equal sign.
- 4 Repeat **Step 3** for each LDAP attribute that you want to add to the *Profile* tab.
- 5 Select *Run Immediately*, then click *Apply*.

The status box shows the LDAP attribute information being added to Teaming users.

11.2 Listing Teaming Users

On the Teaming site, you can view a comprehensive list of all the Kablink Teaming users.

- 1 In the Workspace tree, expand *Home Workspace*, then click *Personal Workspaces*. All of the users are displayed in the main viewing window.



You can use this page in the following ways:

- ♦ **Section 11.2.1, “Navigating through the User List,” on page 68**
- ♦ **Section 11.2.2, “Adding Local Users,” on page 69**
- ♦ **Section 11.2.3, “Modifying the Title, Description, and Branding,” on page 69**

11.2.1 Navigating through the User List

You can navigate through the user list by using the tools in the Entry Listing toolbar.

For information on the navigation tools provided in this toolbar, see “**Listing Entries and Pages**” in the *Kablink Teaming 2.0 User Guide*.

11.2.2 Adding Local Users

A local user is a Kablink Teaming user, and is not added to your LDAP directory. You can use this page to add new users to your Teaming site.

If you want to add users through your LDAP directory service, see [Section 4.1, “Adding New Users to Your Teaming Site,” on page 39](#).

- 1 Click *Add User*.

The User page is displayed.

- 2 Provide the user’s information in the User page, then click *OK*.

11.2.3 Modifying the Title, Description, and Branding

By default, the workspace that contains all of the personal workspaces is named *Personal Workspaces*, the brand for this workspace is inherited from the parent workspace, and there is no workspace description. However, Kablink Teaming enables you to modify the name, brand, and description of the workspace.

- 1 In the Workspace toolbar, click *Manage > Modify This Workspace*.

Use this page to change the title, description, and brand of the workspace.

11.3 Renaming a Teaming User

Teaming users are identified by name (first, middle, last) and by user ID. User names are used to identify personal workspaces. User IDs are used for logging in. You can change users’ names, but not their user IDs. How you change users’ name depends on how you created the user.

- ♦ [Section 11.3.1, “Renaming a Teaming User from LDAP,” on page 69](#)
- ♦ [Section 11.3.2, “Renaming a Local Teaming User,” on page 70](#)

11.3.1 Renaming a Teaming User from LDAP

If you are synchronizing user information from an LDAP directory, as described in “[Adding Teaming Users from Your LDAP Directory](#)”, in “[Basic Installation](#)” in the *Kablink Teaming 2.0 Installation Guide*, change a user’s first, middle, or last name by updating it in the LDAP directory. The updated information then synchronizes to the Teaming site on the schedule you have established for LDAP synchronization. If you change a user’s first, middle, or last name by updating that information on the Teaming site, the change is not synchronized back to the LDAP directory, so the two sources of user information get out of sync.

NOTE: Once you have set up a user in Teaming, you must not change the user’s user ID in the LDAP directory. If you do, the association between the original LDAP user ID and new LDAP user ID is lost from the perspective of the Kablink Teaming site. A new Teaming account and workspace would be created for the new user ID when LDAP synchronization took place. Although it is possible to move folders from the user’s old workspace to the new workspace, any entries created using the old user ID cannot be associated with the new user ID; this approach is not recommended.

11.3.2 Renaming a Local Teaming User

If you manually create Teaming users on the Teaming site, rather than synchronizing user information from an LDAP directory, you can change users' names (first, middle, last) on the Teaming site.

When a user logs in to the Kablink Teaming site for the first time, that user's personal workspace is created. Before a user logs in, that user does not have a personal workspace. Teaming enables site administrators to manually rename both types of users.

- ♦ “Renaming Users Who Have Logged In to Teaming” on page 70
- ♦ “Renaming Users Who Have Not Logged In to Teaming” on page 70

NOTE: Teaming does not allow you to change a user ID after that user account has been created.

Renaming Users Who Have Logged In to Teaming

If you want to rename a user who has previously logged in to the Kablink Teaming site and therefore has a personal workspace:

- 1 Navigate to the user's personal workspace.
- 2 In the Workspace toolbar, click *Manage Profile* > *Modify*.
The User page is displayed.
- 3 Modify the *First Name*, *Middle Name*, and *Last Name* fields as desired.
- 4 Click *OK*.

Renaming Users Who Have Not Logged In to Teaming

If you want to rename a user who has not previously logged in to the Kablink Teaming site and therefore does not have a personal workspace:

- 1 In the *Find* section, in the *People* field, type and select the name of the user that you want to rename.
The user's profile page is displayed.

The screenshot shows the Kablink Teaming user profile page. The header includes the Kablink logo, a search bar, and navigation links for 'People', 'Places', and 'Tools'. The main content area is titled 'Modify' and 'Delete'. It contains fields for 'E-Mail Address', 'Mobile E-Mail Address', 'Text Messaging E-Mail Address', 'Conferencing User Name', 'Time zone', and 'Locale'. The 'E-Mail Address' field is populated with 'aolnews@yourcompanyname.com'. The 'Time zone' is set to 'Greenwich Mean Time' and the 'Locale' is 'English (United States)'. On the left side, there is a 'Micro-Blog' section with a 'Post an entry' button and a 'Recent Places' section with a 'Personal Preferences' button.

- 2 Click *Modify*.
The User page is displayed.
- 3 Modify the *First Name*, *Middle Name*, and *Last Name* fields as desired.
- 4 Click *OK*.

11.4 Deleting a Teaming User

When users no longer need access to your Kablink Teaming site, you should delete their Teaming user accounts. How you delete the user depends on how you originally created the user.

When you delete a user, the entries and information that the deleted user contributed is preserved.

- ♦ [Section 11.4.1, “Manually Deleting a User,” on page 71](#)
- ♦ [Section 11.4.2, “Deleting a User through LDAP,” on page 72](#)

11.4.1 Manually Deleting a User

When a user logs in to the Kablink Teaming site for the first time, that user’s personal workspace is created. Before a user logs in, that user does not have a personal workspace. Teaming enables site administrators to manually delete both types of users.

- ♦ [“Deleting Users Who Have Logged In to Teaming” on page 71](#)
- ♦ [“Deleting Users Who Have Not Logged In to Teaming” on page 71](#)

Deleting Users Who Have Logged In to Teaming

If you want to delete a user who has previously logged in to the Kablink Teaming site and therefore has a personal workspace:

- 1 Navigate to the user’s personal workspace.
- 2 In the Workspace toolbar, click *Manage Profile > Delete*.
- 3 (Optional) You can select to also delete the user workspace, all of its folders, sub-folders, and entries, including the source content of any mirrored folders.
- 4 Click *OK*.

Deleting Users Who Have Not Logged In to Teaming

If you want to delete a user who has not previously logged in to the Kablink Teaming site and therefore does not have a personal workspace:

- 1 In the *Find* section, in the *People* field, type and select the name of the user that you want to delete.

The user’s profile page is displayed.



- 2 Click *Delete > OK*.

11.4.2 Deleting a User through LDAP

If you add Kablink Teaming users by synchronizing with an LDAP directory, as described in [“Adding Teaming Users from Your LDAP Directory”](#) in [“Basic Installation”](#) in the *Kablink Teaming 2.0 Installation Guide*, Teaming users are automatically deleted when you delete the corresponding User object in the LDAP directory. You can configure LDAP synchronization to automatically delete Teaming users’ workspaces and content as well. For more information, see [“LDAP Synchronization Options”](#) in [“Basic Installation”](#) in the *Kablink Teaming 2.0 Installation Guide*.

11.5 Managing Self-Registered Users

If you allow Guest users to create Kablink Teaming accounts for themselves, as described in [Section 4.3, “Allowing Guest Access to Your Teaming Site,” on page 41](#), you might want to delete accounts that are inactive for some period of time. You can use the Login report, described in [Section 17.1.1, “Login Report,” on page 87](#) to generate a list of users sorted by their last login date. This report does not include users who have never logged in, but presumably, if a user self-registers, the intent is to log in immediately.

Managing Workspaces

12

As a Kablink® Teaming administrator, you can perform management functions on all Teaming workspaces. For information on how to perform general workspace management functions, such as creating a workspace, deleting a workspace, moving a workspace, and so forth, see “**General Workspace Management**” in the *Kablink Teaming 2.0 User Guide*.

Managing Workspace and Folder Templates

13

Workspace and Folder templates are a powerful and efficient way to manage your Kablink® Teaming site. They enable you to customize the default features, default layout, and default access control settings of the workspaces and folders throughout your Teaming site.

For example, the Team Workspaces template is used when any team workspace is created. By default, the access control settings for the Team Workspaces template specify that only team members are able to view the team workspace. However, if you want to run a more relaxed Teaming site and allow all Teaming users to view any team workspace, you can simply modify the access control settings on the Team Workspaces template.

For more information about templates, see [Section 3.5.1, “Understanding Templates,” on page 31](#).

- ♦ [Section 13.1, “Modifying Workspace and Folder Templates,” on page 75](#)
- ♦ [Section 13.2, “Importing Templates,” on page 78](#)
- ♦ [Section 13.3, “Exporting Templates,” on page 78](#)
- ♦ [Section 13.4, “Reverting All Templates to the Factory Default,” on page 79](#)

13.1 Modifying Workspace and Folder Templates

Kablink Teaming enables you to modify default templates as well as custom templates that you have already created.

For information on how to create custom templates, see [Section 3.5.3, “Creating Workspace and Folder Templates,” on page 35](#).

- 1 In the Workspace or Folder toolbar, click *Manage > Site Administration*, then click *Manage Workspace and Folder Templates*.
- 2 Click the workspace or folder template that you want to modify.
From this page you can do any of the following:

- ♦ [Section 13.1.1, “Deleting the Template,” on page 76](#)
- ♦ [Section 13.1.2, “Exporting the Template,” on page 76](#)
- ♦ [Section 13.1.3, “Renaming the Template,” on page 76](#)
- ♦ [Section 13.1.4, “Adding an Existing Workspace Template,” on page 76](#)
- ♦ [Section 13.1.5, “Adding an Existing Folder Template,” on page 77](#)
- ♦ [Section 13.1.6, “Adding Access Controls to the Template,” on page 77](#)
- ♦ [Section 13.1.7, “Changing the Default View for the Template,” on page 77](#)
- ♦ [Section 13.1.8, “Changing the Title, Description, Brand, and Icon for the Template,” on page 77](#)
- ♦ [Section 13.1.9, “Modifying the Accessory Panel for the Template,” on page 77](#)

13.1.1 Deleting the Template

Deleting a template deletes the template and all sub-templates.

- 1 In the Workspace and Folder Templates toolbar, click *Manage This Template*.
- 2 Click *Delete This Template > OK*.

13.1.2 Exporting the Template

- 1 In the Workspace and Folder Templates toolbar, click *Manage This Template*.
- 2 Click *Export This Template*.
- 3 Click *OK*.

For information on how to export multiple templates simultaneously, see [Section 13.3.2, “Exporting Multiple Templates,” on page 79](#).

13.1.3 Renaming the Template

You can change the information that is displayed on the Add New Workspace page (or Add New Folder page), when users select which type of workspace they want to add.

- 1 In the Workspace and Folder Templates toolbar, click *Manage This Template*.
- 2 Click *Modify This Template*.
- 3 Specify the following information:
 - Name:** This is the internal database name.
 - Template Title:** This name appears in the Add New Workspace page (or Add New Folder page), when users select which type of workspace they want to add.
 - Description:** This description appears in the Add New Workspace page (or Add New Folder page), when users select which type of workspace they want to add.
- 4 Click *Modify*.

13.1.4 Adding an Existing Workspace Template

You can add a workspace template to the template that you are currently modifying. The workspace template that you add becomes a sub-workspace to the main workspace. All template sub-workspaces and sub-folders that you add are preserved when the template is used in your Teaming site.

- 1 In the Workspace and Folder Templates toolbar, click *Manage This Template*.
- 2 Click *Add Workspace Template*.
- 3 In the Currently Defined Templates section, select the workspace template that you want to add.
- 4 Click *Add*.

A cloned copy of the workspace template that you add is added as a sub-folder to the main workspace.

13.1.5 Adding an Existing Folder Template

You can add a folder template to the template that you are currently modifying. The folder template that you add becomes a sub-folder to the main workspace or folder. All template sub-workspaces and sub-folders that you add are preserved when the template is used in your Teaming site.

You can add a folder template to the template that you are currently modifying.

- 1 In the Workspace and Folder Templates toolbar, click *Manage This Template*.
- 2 Click *Add Folder Template*.
- 3 In the Currently Defined Templates section, select the folder template that you want to add.
- 4 Click *Add*.

A cloned copy of the folder template that you add is added as a sub-folder to the main folder or workspace.

13.1.6 Adding Access Controls to the Template

- 1 In the Workspace and Folder Templates toolbar, click *Manage This Target*.
- 2 Click *Access Control*.

The Configure Access Control page is displayed.

For information on how to use this page, see [Chapter 2, “Planning User Access to Workspaces and Folders,” on page 15](#).

- 3 After you have made your access control modifications, click *Close*.

13.1.7 Changing the Default View for the Template

- 1 In the Workspace and Folder Templates toolbar, click *Manage This Target*.
- 2 Click *Configure*.

The Configure Default Settings page is displayed.

- 3 In the *Default View* section, select the default view that you want the template to have.
- 4 Click *Apply* > *Close*.

13.1.8 Changing the Title, Description, Brand, and Icon for the Template

You can change the attributes of the template that are displayed in the workspace after the workspace is created.

- 1 In the Workspace and Folder Templates toolbar, click *Manage This Target*.
- 2 Click *Modify*.
- 3 Change the title, description, brand, and icon as desired, then click *OK*.

13.1.9 Modifying the Accessory Panel for the Template

Kablink Teaming enables you to modify the Accessory Panel in a template.

If the Accessory Panel already contains accessories, you can modify them; or, you can create new accessories. For information on how to modify and create accessories, see “[Managing Accessories](#)” in the *Kablink Teaming 2.0 User Guide*.

13.2 Importing Templates

You can import a template after you have exported it. For information on how to export a template, see [Section 13.3, “Exporting Templates,” on page 78](#).

- 1 In the Workspace or Folder toolbar, click *Manage > Site Administration*, then click *Manage Workspace and Folder Templates*.



- 2 Click *Import*.

The *Import Templates* page is displayed.

- 3 Browse for and select the templates that you want to import, then click *OK*.

The template is displayed in the Manage Workspace and Folder Templates page.

13.3 Exporting Templates

You might want to export templates for the following reasons:

- ♦ So you can import the template into another system.
- ♦ To save the template.

This might be useful if you want to make edits to a template, and want to restore the original in case your edits don't go according to plan.

Kablink Teaming enables you to export individual templates, or multiple templates simultaneously.

- ♦ [Section 13.3.1, “Exporting Single Templates,” on page 78](#)
- ♦ [Section 13.3.2, “Exporting Multiple Templates,” on page 79](#)

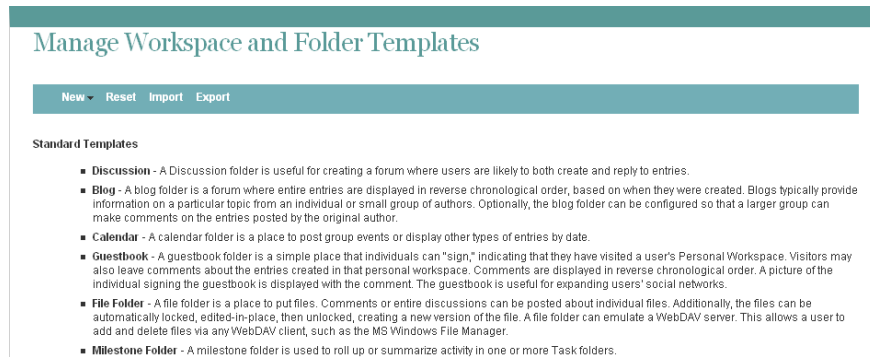
13.3.1 Exporting Single Templates

- 1 In the Workspace or Folder toolbar, click *Manage > Site Administration*, then click *Manage Workspace and Folder Templates*.
- 2 Click the workspace or folder template that you want to modify.
- 3 In the Workspace and Folder Templates toolbar, click *Manage This Template*.

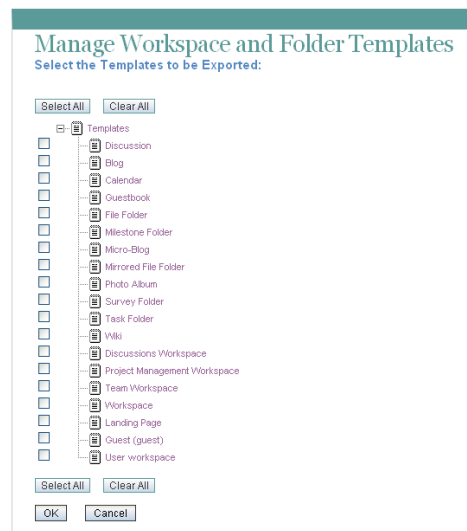
- 4 Click *Export This Template*.
- 5 Click *OK*.

13.3.2 Exporting Multiple Templates

- 1 In the Workspace or Folder toolbar, click *Manage > Site Administration*, then click *Manage Workspace and Folder Templates*.



- 2 Click *Export*.



- 3 In the *Select the Templates to be Exported* section, select the template or templates that you want to export, then click *OK*.

13.4 Reverting All Templates to the Factory Default

When you revert all templates to the factory default, you lose any modifications that you have made to existing templates, as well as any custom templates that you might have created.

- 1 In the Workspace or Folder toolbar, click *Manage > Site Administration*, then click *Manage Workspace and Folder Templates*.

Manage Workspace and Folder Templates

New ▼ Reset Import Export

Standard Templates

- **Discussion** - A Discussion folder is useful for creating a forum where users are likely to both create and reply to entries.
- **Blog** - A blog folder is a forum where entire entries are displayed in reverse chronological order, based on when they were created. Blogs typically provide information on a particular topic from an individual or small group of authors. Optionally, the blog folder can be configured so that a larger group can make comments on the entries posted by the original author.
- **Calendar** - A calendar folder is a place to post group events or display other types of entries by date.
- **Guestbook** - A guestbook folder is a simple place that individuals can "sign," indicating that they have visited a user's Personal Workspace. Visitors may also leave comments about the entries created in that personal workspace. Comments are displayed in reverse chronological order. A picture of the individual signing the guestbook is displayed with the comment. The guestbook is useful for expanding users' social networks.
- **File Folder** - A file folder is a place to put files. Comments or entire discussions can be posted about individual files. Additionally, the files can be automatically locked, edited-in-place, then unlocked, creating a new version of the file. A file folder can emulate a WebDAV server. This allows a user to add and delete files via any WebDAV client, such as the MS Windows File Manager.
- **Milestone Folder** - A milestone folder is used to roll up or summarize activity in one or more Task folders.

2 Click *Reset*, then click *OK*.

Creating and Managing Workflows

14

Workflows can improve efficiency in your organization by automating common business processes.

As a Kablink® Teaming administrator, you have the ability to create workflows and make them available to all Teaming users. You can also import existing workflows and then tailor them to your specific organization.

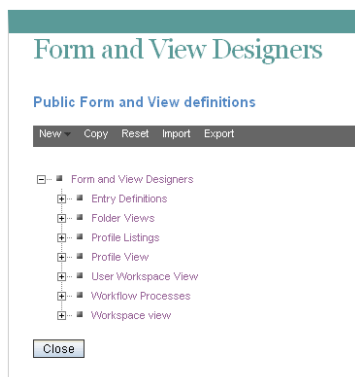
Examples of workflows include: approving documents, ordering supplies, hiring new employees, requesting paid time off, and getting expense reimbursements.

- ♦ [Section 14.1, “Creating Global Workflows,” on page 81](#)
- ♦ [Section 14.2, “Downloading Existing Custom Forms and Workflows,” on page 81](#)

14.1 Creating Global Workflows

You can create workflows that are accessible to all Kablink Teaming users.

- 1 In the Workspace or Folder toolbar, click *Manage > Site Administration*, then click *Form and View Designers*.



- 2 Follow the steps for creating and managing a workflow, as described in “[Creating and Managing Workflows](#)” in the *Kablink Teaming 2.0 Advanced User Guide*.

Remember that when you create workflows at the Site Administration level, the workflows that you create can be leveraged by all users in your Teaming site.

14.2 Downloading Existing Custom Forms and Workflows

The Novell Teaming Library is a project that provides a collection of existing Teaming folder entry forms and workflows that have been designed to solve specific business problems. You can easily download the custom forms and workflows, then import them into your Teaming environment. You can further customize these forms and workflows to suit your individual business needs.

- 1 Visit the [Novell Teaming Library](http://www.novell.com/communities/cool solutions/teaminglibrary) (<http://www.novell.com/communities/cool solutions/teaminglibrary>).

- 2** Select the custom form or workflow that you want to use in your Teaming environment.
- 3** In the *Attachment* section, click the `zip` file to download it.
- 4** Import the file into your Teaming environment and deploy it for use.

For information on how to do this, follow the [Teaming 2 Deployment Instructions \(http://www.novell.com/communities/node/8359/deployment-instructions-teaming-2\)](http://www.novell.com/communities/node/8359/deployment-instructions-teaming-2).

For background information about the Lucene* index, see “[Understanding Indexing](#) in [Advanced Installation and Reconfiguration](#)” in the *Kablink Teaming 2.0 Installation Guide*.

- ♦ [Section 15.1, “Changing Your Lucene Configuration,”](#) on page 83
- ♦ [Section 15.2, “Rebuilding the Lucene Index,”](#) on page 83

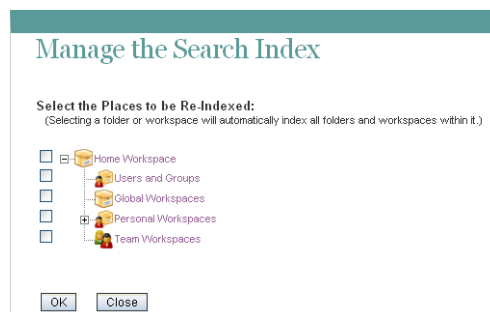
15.1 Changing Your Lucene Configuration

The default Lucene Index Server configuration is appropriate for a medium-sized Kablink® Teaming site. If you have a larger Teaming site, you can change its Lucene Index Server configuration by rerunning the Teaming Installation program, selecting *Reconfigure Settings*, then selecting *Advanced*. For instructions, see “[Changing Your Lucene Index Server Configuration](#)” in “[Advanced Installation and Reconfiguration](#)” in the *Kablink Teaming 2.0 Installation Guide*.

15.2 Rebuilding the Lucene Index

The Lucene index provides access to all data in your Kablink Teaming site. If it becomes damaged or out of date for some reason, you can rebuild it. Users might first notice a problem with the Lucene index because they cannot find information that they know should be available on the Teaming site.

- 1 Log in to the Teaming site as the Teaming administrator
- 2 On the Workspace toolbar, click *Manage > Site Administration*, then click *Manage the Search Index*.



- 3 To reindex the entire Teaming site, select *Home Workspace*.

Depending on the size of your Teaming site, this can be a very time-consuming process.

or

Select one or more parts of your Teaming site to reindex.

- 4 Click *OK* to start the indexing.

Users can still access the Teaming site during the indexing process, but search results might not be accurate until the index has been completely rebuilt.

A message notifies you when indexing is complete.

Backing Up Teaming Data

16

Reliable backups are critical to the stability of your Kablink® Teaming site.

- ♦ [Section 16.1, “Locating Teaming Data to Backup Up,” on page 85](#)
- ♦ [Section 16.2, “Scheduling and Performing Backups,” on page 86](#)
- ♦ [Section 16.3, “Restoring Teaming Data from Backup,” on page 86](#)

16.1 Locating Teaming Data to Backup Up

In order to keep adequate backups of your Kablink Teaming data, you must back up three types of data.

- ♦ [Section 16.1.1, “Teaming File Repository,” on page 85](#)
- ♦ [Section 16.1.2, “Teaming Database,” on page 85](#)
- ♦ [Section 16.1.3, “Lucene Index,” on page 86](#)

16.1.1 Teaming File Repository

Platform	Default Location
Linux:	/var/opt/novell/teaming
Windows:	c:\Novell\Teaming

For more information, see “[Distributing Different Data Types to Different Locations](#)” in “[Advanced Installation and Reconfiguration](#)” in the *Kablink Teaming 2.0 Installation Guide*

16.1.2 Teaming Database

Database Server	Default Linux Location	Default Windows Location
MySQL	/var/lib/mysql	c:\Documents and Settings\All Users\ Application Data\MySQL\ MySQL Server version\Data
Microsoft SQL	N/A	c:\Program Files\Microsoft SQL Server\ MSSQL\Data
Oracle	N/A	N/A

16.1.3 Lucene Index

Platform	Default Location
Linux:	<code>/var/opt/novell/teaming/lucene/zone_name</code>
Windows:	<code>c:\Program Files\Novell\Teaming\luceneserver\zone_name</code>

16.2 Scheduling and Performing Backups

You do not need to bring your Kablink Teaming site down in order to perform backups. You might want to back up the Teaming file repository and the Teaming database every night, perhaps doing a full backup once a week and incremental backups on other days. You can back up the Lucene index whenever it is convenient. You can always reindex the Teaming site in order to re-create the Lucene index, but being able to restore one from backup can save time in case of an outage.

16.3 Restoring Teaming Data from Backup

If you need to restore your Kablink Teaming site from a backup, restoring the same backup version for both the file repository and the database creates a Teaming site that is consistent within itself but might be missing information that was added after the backups were created. If you lose the file repository but not the database, you can restore the backed-up file repository and keep the more current database, but some entries then have files that are missing from the file repository. If you lose the database but not the file repository, you can run a report to identify entries created since the last database backup, as described in [Section 17.1.4, “Content Modification Report,” on page 91](#). You can then notify the affected Teaming users that they need to re-create the entries that are not available in the backup.

Monitoring the Teaming Site

17

You can monitor activity on your Kablink® Teaming site by using Teaming reports and log files.

- ♦ [Section 17.1, “Generating Reports,” on page 87](#)
- ♦ [Section 17.2, “Using Log Files,” on page 94](#)
- ♦ [Section 17.3, “Checking the Teaming Site Software Version,” on page 96](#)

17.1 Generating Reports

Most Kablink Teaming reports are created in CSV format, so that you can import them into a spreadsheet and easily manipulate the data to suit your needs. The default CSV filename is `report.csv`. If you create multiple reports without manually renaming them, the default filename increments (`report-n.csv`). The default location to save the report varies by platform:

Linux: /tmp

Windows: Your current Windows* default directory

- ♦ [Section 17.1.1, “Login Report,” on page 87](#)
- ♦ [Section 17.1.2, “User Activity Report,” on page 89](#)
- ♦ [Section 17.1.3, “User Access Report,” on page 90](#)
- ♦ [Section 17.1.4, “Content Modification Report,” on page 91](#)
- ♦ [Section 17.1.5, “Disk Usage Report,” on page 93](#)

17.1.1 Login Report

The Login report lists what Kablink Teaming users have logged in to the Teaming site during a specified period of time. In addition, it can include a dated list of every login by each user.

- 1 Log into the Teaming site as the Teaming administrator.
- 2 On the Workspace toolbar, click *Manage > Site Administration*.
- 3 Expand *Reports*, then click *Login Report*.

Login Report

Generate a Report (Microsoft Excel CSV format) of login information for users.

Report on Activity Between April 26 2009 and May 26 2009

People

☒ Summarize Login Entries
Sort Report By: --none--

☐ List All Login Entries
Sort Report By: Login Date

- 4 Specify the date range for the Login report.
- 5 Leave the *People* field blank to list all user logins.
or
- 6 In the *People* field:
 - 6a Start typing the first name of a Teaming user.
 - 6b In the drop-down list of names that match what you have typed, select a user whose logins you want to be reported.
 - 6c (Optional) Repeat **Step 6a** and **Step 6b** to include additional users in the report.
- 7 Select the type of User Activity report that you want to generate.

Summarize Login Entries: Lists how many times the selected users have logged into the Teaming site. In the *Sort Report By* drop-down list, select *User*, *Last Login*, or *Number of Logins* to organize the data most helpfully.

List All Login Entries: Lists each individual user login and includes the following data about the action:

 - ♦ First name
 - ♦ Last name
 - ♦ Username
 - ♦ Date
 - ♦ Time

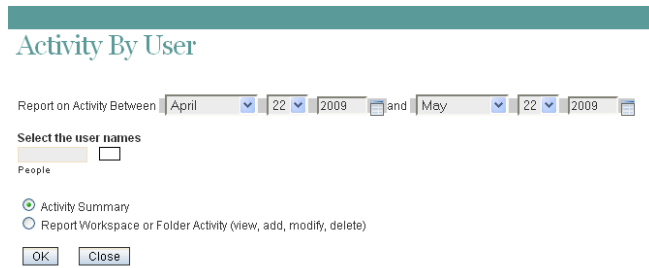
In the *Sort Report By* drop-down list, select *Login Date* or *User* to organize the data most helpfully.
- 8 Click *OK* to generate the Login report.
- 9 Select a text editor to view the report in, then click *OK*.

For a short report, you might obtain the information you need by viewing the CSV file.
- 10 (Optional) Save the CSV file with a meaningful name in a convenient location, then retrieve it into a spreadsheet program for further examination.

17.1.2 User Activity Report

The User Activity report lists how many times specified users have viewed, added, modified, or deleted content on the Kablink Teaming site during a specified period of time. In addition, it can include the date and time of each action, along with the specific location of the action.

- 1 Log into the Teaming site as the Teaming administrator.
- 2 On the Workspace toolbar, click *Manage > Site Administration*.
- 3 Expand *Reports*, then click *Activity by User*.



The screenshot shows a dialog box titled "Activity By User". It contains a date range selector with dropdowns for "Report on Activity Between", "April", "22", "2009", "and", "May", "22", "2009". Below this is a section "Select the user names" with a text input field labeled "People" and a search icon. At the bottom, there are two radio buttons: "Activity Summary" (selected) and "Report Workspace or Folder Activity (view, add, modify, delete)". There are also "OK" and "Close" buttons.

- 4 Specify the date range for the User Activity report.
- 5 Leave the *People* field blank to list all user activity.
or
In the *People* field, start typing the first name of a Teaming user.
- 6 In the drop-down list of names that match what you have typed, select a user whose activity you want to be reported.
- 7 (Optional) Repeat **Step 5** and **Step 6** to include additional users.
- 8 Select the type of User Activity report that you want to generate.
Activity Summary: Lists how many times the selected users have viewed, added, modified, or deleted content on the Teaming site.
Workspace or Folder Activity: Lists each individual user action and includes the following data about the action:
 - ♦ User
 - ♦ Activity
 - ♦ Date
 - ♦ Time
 - ♦ Folder
 - ♦ Entry title
 - ♦ Entry type
- 9 Click *OK* to generate the User Activity report.
- 10 Select a text editor to view the report in, then click *OK*.
For a short report, you might obtain the information you need by viewing the CSV file.
- 11 (Optional) Save the CSV file with a meaningful name in a convenient location, then retrieve it into a spreadsheet program for further examination.

17.1.3 User Access Report

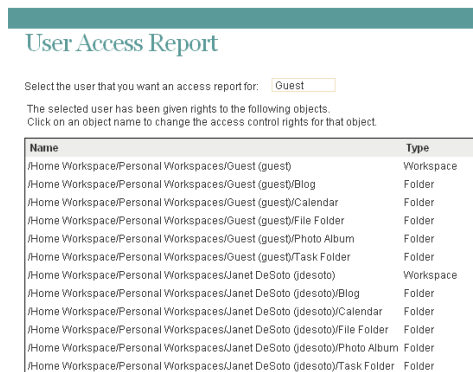
The User Access report lists the locations on the Kablink Teaming site where a specified user has access rights. In addition, you can view, and if necessary, change or remove the access rights for any location. This report is especially useful on Teaming sites where Guest user access has been granted, as described in [Section 4.3, “Allowing Guest Access to Your Teaming Site,”](#) on page 41.

- 1 Log into the Teaming site as the Teaming administrator.
- 2 On the Workspace toolbar, click *Manage > Site Administration*.
- 3 Expand *Reports*, then click *User Access Report*.



The image shows a dialog box titled "User Access Report". It contains a text input field with the placeholder text "Select the user that you want an access report for:". Below the input field is a "Close" button.

- 4 Start typing the first name of a Teaming user.
- 5 In the drop-down list of names that match what you have typed, select the user whose site access you want to be reported.



The image shows the "User Access Report" dialog box with the "Guest" user selected. Below the input field, it states: "The selected user has been given rights to the following objects. Click on an object name to change the access control rights for that object." Below this is a table with two columns: "Name" and "Type".

Name	Type
/Home Workspace/Personal Workspaces/Guest (guest)	Workspace
/Home Workspace/Personal Workspaces/Guest (guest)/Blog	Folder
/Home Workspace/Personal Workspaces/Guest (guest)/Calendar	Folder
/Home Workspace/Personal Workspaces/Guest (guest)/File Folder	Folder
/Home Workspace/Personal Workspaces/Guest (guest)/Photo Album	Folder
/Home Workspace/Personal Workspaces/Guest (guest)/Task Folder	Folder
/Home Workspace/Personal Workspaces/Janet DeSoto (jdesoto)	Workspace
/Home Workspace/Personal Workspaces/Janet DeSoto (jdesoto)/Blog	Folder
/Home Workspace/Personal Workspaces/Janet DeSoto (jdesoto)/Calendar	Folder
/Home Workspace/Personal Workspaces/Janet DeSoto (jdesoto)/File Folder	Folder
/Home Workspace/Personal Workspaces/Janet DeSoto (jdesoto)/Photo Album	Folder
/Home Workspace/Personal Workspaces/Janet DeSoto (jdesoto)/Task Folder	Folder

In this example, the Guest user has access to the Guest workspace and also to Janet DeSoto’s personal workspace. This could be appropriate if Janet DeSoto’s job is maintain a publicly available workspace, but would not be appropriate if the Guest access has been granted in error.

- 6 (Conditional) If you want to change the current access:
 - 6a Click the name of a location to display the Configure Access Control page for that location.

Configure Access Control

Current Workspace: Janet DeSoto's personal workspace
Workspace Owner: Janet DeSoto (owner) | jds

This folder does not inherit its access control settings from its parent.
Inherit role membership from the parent folder or workspace?

☐ yes ☒ no [Apply](#)

☒ Designates the access control setting of the parent workspace

Add these Roles from Upward

		Add a Role			
		Participant	Team Member	Visitor	Workspace and Folder Administrator
Owner of Workspace or Folder		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Team Members		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Add a Group	Group Name	Participant	Team Member	Visitor	Workspace and Folder Administrator
	All Users	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Add a User	User Name	Participant	Team Member	Visitor	Workspace and Folder Administrator
	Guest	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Add an Application Group	Application Group Name	Participant	Team Member	Visitor	Workspace and Folder Administrator
Add an Application	Application Name	Participant	Team Member	Visitor	Workspace and Folder Administrator

[Save Changes](#)

In this example, the Guest user has been granted Visitor access to Janet DeSoto's personal workspace.

- 6b** Select or deselect access rights as needed.
- 6c** Click *Save Changes*, then click *Close* to return to the User Access Report page
- 6d** Rerun the report to view the results of your changes.

For example, if you removed the Guest access rights from Janet DeSoto's personal workspace, her workspace is no longer listed in the User Access report for the Guest user.

User Access Report

Select the user that you want an access report for:

The selected user has been given rights to the following objects.
Click on an object name to change the access control rights for that object.

Name	Type
/Home Workspace/Personal Workspaces/Guest (guest)	Workspace
/Home Workspace/Personal Workspaces/Guest (guest)/Blog	Folder
/Home Workspace/Personal Workspaces/Guest (guest)/Calendar	Folder
/Home Workspace/Personal Workspaces/Guest (guest)/File Folder	Folder
/Home Workspace/Personal Workspaces/Guest (guest)/Photo Album	Folder
/Home Workspace/Personal Workspaces/Guest (guest)/Task Folder	Folder

- 7** (Conditional) If you want to save the user access information, you can block and copy it into a text editor.
- 8** Click *Close* when you are finished checking user access rights.

17.1.4 Content Modification Report

The Content Modification report lists changes to workspaces, folders, and folder entries, as well as users, groups, access rights, and workflows. By generating a Content Modification report, you can determine who has performed any of the following actions:

- ♦ Added, modified, moved, or deleted a workspace
- ♦ Added, modified, moved, or deleted a folder
- ♦ Added, modified, renamed, or deleted a file or one of its versions
- ♦ Added, modified, moved, or deleted an entry

For purposes of this report, users and groups are handled as if they are folder entries.

- ♦ Started or modified a workflow
- ♦ Modified or deleted access rights

The Content Modification report can also help you recover data that has been accidentally deleted.

- 1 Log into the Teaming site as the Teaming administrator.
- 2 Determine the exact name of the workspace, folder, file entry, and so on where you want to check for content modifications.
- 3 On the Workspace toolbar, click *Manage > Site Administration*.
- 4 Expand *Reports*, then click *Content Modification Log*.

- 5 Fill in the fields to specify where to check for content modifications and the type of modifications to check for:

Find a Folder or Workspace: Start typing the name of a folder or workspace. In the drop-down list of names that match what you have typed, select the folder or workspace where you want to check for content modifications. The internal ID of the folder or workspace is displayed for reference.

Find an Entry: (Optional) To restrict the content modification check to a specific entry in a folder, start typing text in the title of the entry. In the drop-down list of entry titles that match what you have typed, select the entry where you want to check for content modifications. The internal ID of the entry is displayed for reference.

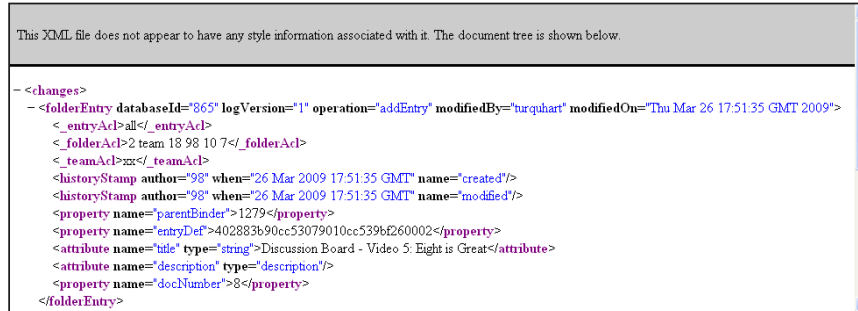
Entity Type: (Optional) To further restrict the content modification check, select one of the following:

- ♦ Workspace (not the contents of the workspace, but the workspace itself)
- ♦ Folder (not the contents of the folder, but the folder itself)
- ♦ Folder entry (the contents of the folder entry)
- ♦ Profiles (the contents of the Personal Workspaces folder where there is a personal workspace for each user)
- ♦ User (the contents of a user's personal profile, such as the user's name, e-mail address, locale, and so on)
- ♦ Group (the contents of the group)

Filter by Operation: Further restrict the content modification check by selecting a specific action performed on the selected workspace, folder, or entry (add, modify, rename, delete, and so on).

- 6 Click *Apply* to generate the Content Modification report.

The results are displayed as an XML file.



- 7 (Conditional) If the results are too extensive, restrict the scope of the content modification check until you locate the modification that you are seeking.
- 8 Click *Close* when you are finished checking for content modifications.

A specialized use of the Content Modification report is to restore accidentally deleted data. For example, you can use the following steps to recover an accidentally deleted folder entry:

- 1 Run the Content Modification report to list all entry deletions in the folder where the entry was accidentally deleted.
- 2 Record the entry ID of the deleted entry.
- 3 Run the Content Modification report on the entry ID, selecting *folder entry* in the *Entity Type* field.
- 4 Use the modification history of the entry to reconstruct the accidentally deleted entry.

17.1.5 Disk Usage Report

The Disk Usage report lists the amount of disk space for workspaces on the Kablink Teaming site by user, by workspace, or by both. In addition, you can restrict the reporting to only those workspaces that exceed a specified number of megabytes.

- 1 Log into the Teaming site as the Teaming administrator.
- 2 On the Workspace toolbar, click *Manage > Site Administration*.
- 3 Expand *Reports*, then click *Disk Usage Report*.



- 4** Select the type of Disk Usage report that you want to generate.

Total Usage by User: Lists all Teaming users whose disk space usage is above the amount specified in the *Usage Greater Than* field.

Total Usage by Workspace: Lists all workspaces where disk space usage is above the amount specified in the *Usage Greater Than* field. Disk space usage for each folder in each workspace is listed separately. The data is organized by workspace and folder ID.

Total Usage by Both User and Workspace: Combines the user and workspace data into a single report.

Usage Greater Than: Specify the number of megabytes above which you want to list disk space usage. This eliminates smaller disk space usages from the report.

- 5** Click *OK* to generate the Disk Usage report.

- 6** Select a text editor to view the report in, then click *OK*.

For a short report, you might obtain the information you need by viewing the CSV file.

- 7** (Optional) Save the CSV file with a meaningful name in a convenient location, then retrieve it into a spreadsheet program for further examination.

- 8** Click *Close* when you are finished checking disk space usage.

17.2 Using Log Files

- ◆ Section 17.2.1, “Teaming Log File,” on page 94
- ◆ Section 17.2.2, “Tomcat Log File,” on page 95

17.2.1 Teaming Log File

The Kablink Teaming log file (`ssf.log`) is available from the Teaming site.

- 1 Log in as the Teaming site administrator.
- 2 Click *Manage > Site Administration*, then expand *Reports*.
- 3 Click *System Error Logs*.

You are prompted to open or save a file named `logfiles.zip`, which contains the current `ssf.log` file. This file contains any stack traces or warning messages due to unexpected events encountered by the Teaming program.

- 4** Save the `ssf.log` file to a convenient location on the Teaming server.

This file is helpful when you need assistance resolving a problem with your Teaming site.

The Teaming log file is also available in the following directory of your Teaming installation:

```
Linux: /opt/novell/teaming/apache-tomcat-version/webapps/ssf/WEB-INF/logs
```

Windows: c:\Program Files\Novell\Teaming\apache-tomcat-version\webapps\ssf\WEB-INF\logs

This is helpful if Teaming does not start.

17.2.2 Tomcat Log File

In addition to the Kablink Teaming error log file (`ssf.log`), the Tomcat error log file (`catalina.out` on Linux and `stdout_*.log` on Windows when Teaming runs as a service) is also useful. The Tomcat log file contains more information than the Teaming log file, because it includes problems encountered by Tomcat outside of the Teaming application itself. The location of the Tomcat log file varies by platform:

Linux: `/opt/novell/teaming/apache-tomcat-version/logs`

Windows: `c:\Program Files\Novell\Teaming\apache-tomcat-version\logs`

NOTE: When Teaming and Tomcat run as a Windows application, rather than as a Windows service, the information displayed in the Command Prompt window where you started Teaming is your only source of information. The data displayed in the Command Prompt window is not logged by Tomcat on Windows.

The Tomcat log file provides the following useful information:

- At the top, the Tomcat log file lists Tomcat startup messages.
- The System Properties section lists information about the supporting software packages that Tomcat relies on (for example, Java) and information about their current location and configuration.
- The System Environment section lists the currently set environment variables (for example, `HOSTNAME`, `PATH`, and `JAVA_HOME`).
- Exception and error data includes sufficient information for you to determine what user was trying to perform what action in what location on the Teaming site, to help you isolate and reproduce the problem.

NOTE: If your Teaming site was originally installed as a Teaming 2.0 site, the root of your site is referred to as `org.kablink` in the Tomcat error log. If you updated from a Teaming 1.0 site or a Teaming 2.0 beta site, the root of your site is referred to as `com.liferay`.

This file is helpful when you need assistance resolving a problem with your Teaming site.

Adjusting the Log Level for the Tomcat Log File

The log levels for various Tomcat functions are set in the `log4j.properties` file. Each type of information that is logged can have a log level of `INFO`, `WARN`, `ERROR`, `FATAL`, or `DEBUG`, depending on the type and quantify of information that you want logged. Some lines in the `log4j.properties` file are commented out with a pound sign (`#`), so that no information of that type is gathered. You can change the log level for each type of information and comment or uncomment lines to adjust the information gathered in the Tomcat log file to meet your troubleshooting needs.

- 1 Open the `log4j.properties` file in a text editor.

The location of the `log4j.properties` file varies by platform.

Linux: `/opt/novell/teaming/apache-tomcat-version/webapps/ssf/WEB-INF`

Windows: c:\Program Files\Novell\Teaming\apache-tomcat-version\
webapps\ssf\WEB-INF

- 2 Change log level settings as needed for the type of information you want to gather.
- 3 Comment or uncomment lines, depending on the type of information you want to gather.
- 4 Save the `log4j.properties` file, then exit the text editor.
- 5 Stop Teaming, then start Teaming to put the new logging level into effect.

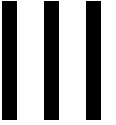
17.3 Checking the Teaming Site Software Version

To display the version number and software date of Teaming software:

- 1 Log in to the Teaming site as the Teaming administrator
- 2 Click *Manage > Site Administration*.

The Teaming software version and date are displayed above the *Administration* menu.

Site Security



- ♦ Chapter 18, “Security Administration,” on page 99
- ♦ Chapter 19, “Security Policies,” on page 105

- ◆ Section 18.1, “Securing LDAP Synchronization,” on page 99
- ◆ Section 18.2, “Securing E-Mail Transfer,” on page 100
- ◆ Section 18.3, “Securing HTTP Connections,” on page 101

18.1 Securing LDAP Synchronization

- ◆ Section 18.1.1, “Understanding How Teaming Handles Public-Key Certificates,” on page 99
- ◆ Section 18.1.2, “Obtaining a Signed Public-Key Certificate,” on page 99
- ◆ Section 18.1.3, “Importing Certificates,” on page 100

18.1.1 Understanding How Teaming Handles Public-Key Certificates

Java uses a keystore file to store public-key certificates. The default keystore that is installed along with Kablink® Teaming is:

Linux: `/opt/novell/teaming/apache-tomcat-version/conf/.keystore`

```
Windows:  c:\Program Files\Novell\Teaming\
          apache-tomcat-version\conf\.keystore
```

The self-signed public-key certificate in the default keystore is sufficient for you to set up secure connections during initial installation. Soon after installation, you should obtain a signed certificate. You can store your signed certificate in the default keystore, or in a location of your own choosing. Teaming reads the location of its keystore from the following file:

```
Linux: /opt/novell/teaming/apache-tomcat-version/conf/server.xml
```

[illegible]

If you do not want to use the default keystore location, you must update the `server.xml` file to match the location you choose for your keystore.

18.1.2 Obtaining a Signed Public-Key Certificate

- 1** Obtain a signed certificate is through a commercial Certificate Authority (CA).

You can find a CA on the Internet by searching for “Certificate Authority”. The process of obtaining a signed certificate varies from company to company. Each company provides instructions to assist you.

or

Generate your own self-signed certificate by using the Keytool utility.

Linux: /usr/java/jdk1.5.0_17/bin/keytool

Windows: c:\Program Files\Java\jdk1.5.0_17\bin\keytool.exe

The [Apache Tomcat 6.0 SSL Configuration HOW-TO](http://tomcat.apache.org/tomcat-6.0-doc/ssl-howto.html) (<http://tomcat.apache.org/tomcat-6.0-doc/ssl-howto.html>) provides guidance if you want to use this approach.

- 2 Place the signed certificate in a convenient location on the Teaming server (for example, in a `certs` directory).

If you obtained the signed certificate from a CA, you also received a CA certificate that validates the public-key certificate.

18.1.3 Importing Certificates

After you have obtained a signed public-key certificate, you must import it into the keystore for your Kablink Teaming system. If you also received a CA certificate, you must import it into the Java CA certificate store.

- 1 To import the public-key certificate, use the following command:

Linux: `keytool -import -alias ldap_svr_alias -keystore /path/.keystore
 -file /certs/certname.b64`

Windows: c:\Program Files\Java\jdk1.5.0_17\bin\keytool.exe

For background information, see [keytool - Key and Certificate Management Tool](http://java.sun.com/j2se/1.3/docs/tooldocs/win32/keytool.html) (<http://java.sun.com/j2se/1.3/docs/tooldocs/win32/keytool.html>).

- 2 Import the certificate into the following directory:

`java_jdk_installation/jre/lib/security/cacerts.`

18.2 Securing E-Mail Transfer

When you install Kablink Teaming, you can choose whether or not the Teaming internal mail host uses TLS (Transport Layer Security) when it communicates with other SMTP mail hosts. For more information, see “[Inbound E-Mail Security](#)” in “[Basic Installation](#)” in the *Kablink Teaming 2.0 Installation Guide*.

If your Teaming site needs to send e-mail messages to an e-mail system that requires secure SMTP (SMTPS), the Teaming site must have the same type of public-key certificate as is required for secure LDAP (LDAPS). If you have not already set up secure LDAP for your Teaming site, you can follow the instructions in [Section 18.1, “Securing LDAP Synchronization,” on page 99](#) to set up secure SMTP for communications with your e-mail system.


```

<security-constraint>
  <web-resource-collection>
    <web-resource-name>Entire Application</web-resource-name>
    <url-pattern>/*</url-pattern>
  </web-resource-collection>
  <user-data-constraint>
    <transport-guarantee>CONFIDENTIAL</transport-guarantee>
  </user-data-constraint>
</security-constraint>

```

- 2d** (Conditional) If users access the Teaming site with Internet Explorer*, replace the following single line provided above:

```
<url-pattern>/*</url-pattern>
```

with the following set of lines:

```

<!-- Patterns from web.xml.tmpl. -->
<url-pattern>/a/*</url-pattern>
<url-pattern>/ws/*</url-pattern>
<url-pattern>/rss/*</url-pattern>
<url-pattern>/atom/*</url-pattern>
<!-- Patterns from subdirectories of webapps/ssfs. -->
<url-pattern>/applets/*</url-pattern>
<url-pattern>/css/*</url-pattern>
<url-pattern>/help/*</url-pattern>
<url-pattern>/help_doc/*</url-pattern>
<url-pattern>/i/*</url-pattern>
<url-pattern>/images/*</url-pattern>
<url-pattern>/js/*</url-pattern>

```

For Internet Explorer, this list of URL patterns forces secure HTTP connections for everything except the `/s/*` pattern (document files with extensions such as `.odt` and `.doc`) and the `/ical/*` pattern (calendar `.ics` files).

- 2e** Save the modified `web.xml` file, then exit the text editor.

- 3** Modify the `web.xml` file under the `ssfs` directory:

- 3a** Change to the directory where the `web.xml` file is located.

Linux: `/opt/novell/teaming/apache-tomcat-version/
webapps/ssfs/WEB-INF`

Windows: `c:\Program Files\Novell\Teaming\apache-tomcat-version\
webapps\ssfs\WEB-INF`

- 3b** Make a backup copy of the `web.xml` file, then open the `web.xml` file in a text editor.

- 3c** Find the security constraint section.

- 3d** Scroll to the bottom of the security constraint section, which is marked with `</security constraint>`.

- 3e** Insert the following lines in the security constraint section after the `</web-resource-collection>` tag and before the `<auth-constraint>` tag:

```

<user-data-constraint>
  <transport-guarantee>CONFIDENTIAL</transport-guarantee>
</user-data-constraint>

```

The result would look like the following example:

```

<security-constraint>
  <web-resource-collection>
    <web-resource-name>DAV resource</web-resource-name>
    <url-pattern>/*</url-pattern>
    <http-method>COPY</http-method>
    .
    .
    .
    <http-method>SUBSCRIBE</http-method>
    <http-method>UNSUBSCRIBE</http-method>
    <http-method>POLL</http-method>
    <http-method>NOTIFY</http-method>
  </web-resource-collection>
  <user-data-constraint>
    <transport-guarantee>CONFIDENTIAL</transport-guarantee>
  </user-data-constraint>
  <auth-constraint>
    <role-name>root</role-name>
  </auth-constraint>
</security-constraint>

```

3f Test the updated configuration:

3f1 Stop Teaming.

3f2 Start Teaming.

3f3 In a Web browser, attempt to access the teaming site using a non-secure URL:

`http://teaming_hostname`

The browser should convert it to a secure URL:

`https://teaming_hostname`

Adding the Apache Web Server to Force Secure HTTP Connections

You can set up the Apache* Web server to front your Kablink Teaming site and use a [meta refresh](http://en.wikipedia.org/wiki/Meta_refresh) (http://en.wikipedia.org/wiki/Meta_refresh) to redirect users to a secure URL.

- 1** Install the Apache Web server on one server.
- 2** Configure Apache to listen on port 80.
- 3** Create an `index.html` file similar to the following example:

```

<html>
<head>
  <meta http-equiv="refresh" content="0;url=https://teaming_url" />
  <title>Redirected to Secure Teaming</title>
</head>
<body>
  This page is used to redirect to the Secure Teaming server. If your
  browser does not automatically redirect you in a few seconds, click
  <a href="https://teaming_url">here</a> to go to the secure page.
</body>
</html>

```

- 4** Replace `teaming_url` with the URL to your Teaming site.
- 5** Place the `index.html` file in the document root directory of the Apache Web server.

Linux: /srv/www/htdocs

Windows: c:\Program Files\Apache Software Foundation\Apache2.2\htdocs

- 6** Restart the Apache Web server.

- ♦ [Section 19.1, “Securing the Teaming Data,” on page 105](#)
- ♦ [Section 19.2, “Securing the Teaming Software,” on page 106](#)
- ♦ [Section 19.3, “Securing the Teaming Site,” on page 107](#)

19.1 Securing the Teaming Data

- ♦ [Section 19.1.1, “Limiting Physical Access to Teaming Servers,” on page 105](#)
- ♦ [Section 19.1.2, “Protecting the Teaming File Repository,” on page 105](#)
- ♦ [Section 19.1.3, “Protecting the Teaming Database,” on page 105](#)

19.1.1 Limiting Physical Access to Teaming Servers

Servers where Kablink® Teaming data resides should be kept physically secure, where unauthorized persons cannot gain access to the server consoles.

19.1.2 Protecting the Teaming File Repository

The Kablink Teaming file repository contains unencrypted data. See “[Distributing Different Data Types to Different Locations](#)” in “[Advanced Installation and Reconfiguration](#)” in the *Kablink Teaming 2.0 Installation Guide* for details about how Kablink Teaming uses the local file system for data storage. These directories contain uploaded information in various formats (both native file formats and potentially a number of rendered formats (such as cached HTML versions of files, thumbnails, and RSS feeds) as well as archived data. These files are managed exclusively by the Teaming application software.

For data security, encrypted file systems should be used on servers where Teaming data resides. Only Teaming administrators should have direct access to Teaming data.

19.1.3 Protecting the Teaming Database

During installation, you select the encryption method that you want to use for the Kablink Teaming database, as described in “[Database Encryption Algorithm](#)” in “[Basic Installation](#)” in the *Kablink Teaming 2.0 Installation Guide*. Three levels of encryption strength are available. The encryption algorithm cannot be changed after you have started using the Teaming database, so be sure to select the level of encryption appropriate for your Teaming site during initial installation.

Depending on your local security guidelines, you might want to encrypt the database connections between the Kablink Teaming software and the Teaming database. SSL-encrypted data between the Teaming application and the database server imposes a performance penalty because of the increased overhead of encrypting and decrypting the retrieved data.

Support for this is highly dependent on the database client drivers and JDBC* connector support, and on how you are configuring your database client and server certificates. You should check with your database vendor on how to set up SSL connections on both the client and server sides of the

connection. You might need to modify the JDBC URL during installation, as described in “[Database Location](#)” in “[Basic Installation](#)” in the *Kablink Teaming 2.0 Installation Guide*. For example, for MySQL, you might add `useSSL=true&requireSSL=true` to the `options` part of the JDBC URL.

19.2 Securing the Teaming Software

- [Section 19.2.1, “Protecting the Teaming Configuration Files,” on page 106](#)
- [Section 19.2.2, “Protecting the Teaming Properties File,” on page 106](#)
- [Section 19.2.3, “Protecting Log Files,” on page 106](#)
- [Section 19.2.4, “Protecting the Teaming Process on Linux,” on page 107](#)

19.2.1 Protecting the Teaming Configuration Files

The Kablink Teaming configuration file (`installer.xml`) for the Teaming software should be protected from tampering. It contains username and password information for Teaming features that interact with other programs.

The initial `installer.xml` is created in the same directory where the Teaming Installation program is run. Backup copies are stored in:

Linux: `/opt/novell/teaming/teaming-config`

Windows: `c:\Program Files\Novell\Teaming\teaming-config`

The Teaming Tomcat configuration file (`ssf.xml`) also contains username and password information. This configuration file is located in the following directory:

Linux: `/opt/novell/teaming/apache-tomcat-version/
conf/Catalina/localhost`

Windows: `c:\Program Files\Novell\Teaming\apache-tomcat-version\
conf/Catalina/localhost`

19.2.2 Protecting the Teaming Properties File

The Kablink Teaming properties file (`ssf.properties`) should be protected from tampering. Like the Teaming configuration file, it contains username and password information, as well as many other details about your Teaming site configuration. The Teaming properties file is located in the following directory:

Linux: `/opt/novell/teaming/apache-tomcat-version/
webapps/ssf/WEB-INF/classes/config`

Windows: `c:\Program Files\Novell\Teaming\apache-tomcat-version\
webapps\ssf\WEB-INF\classes\config`

19.2.3 Protecting Log Files

The log files for Teaming and Tomcat should be protected against access by unauthorized persons. Log files contain very detailed information about your Kablink Teaming system and Teaming users.

The Teaming log file is available in the following directory of your Teaming installation:

Linux: `/opt/novell/teaming/apache-tomcat-version/webapps/ssf/WEB-INF/logs`

Windows: c:\Program Files\Novell\Teaming\apache-tomcat-version\webapps\ssf\WEB-INF\logs

The Tomcat log file is available in the following directory of your Teaming installation:

Linux: /opt/novell/teaming/apache-tomcat-version/logs

Windows: c:\Program Files\Novell\Teaming\apache-tomcat-version\logs

19.2.4 Protecting the Teaming Process on Linux

On Linux, Kablink Teaming is installed to run as a user other than the Linux `root` user. See “[Linux User ID for Teaming](#)” in “[Basic Installation](#)” in the *Kablink Teaming 2.0 Installation Guide*.

19.3 Securing the Teaming Site

- ◆ Section 19.3.1, “Configuring a Proxy Server,” on page 107
- ◆ Section 19.3.2, “Setting the Teaming Administrator Password,” on page 107
- ◆ Section 19.3.3, “Setting Up SSL Connections,” on page 107
- ◆ Section 19.3.4, “Shortening the Teaming Session Timeout,” on page 108
- ◆ Section 19.3.5, “Using Role-Based Access Control,” on page 108
- ◆ Section 19.3.6, “Monitoring Inbound E-Mail,” on page 108
- ◆ Section 19.3.7, “Preventing Web Services Access,” on page 108
- ◆ Section 19.3.8, “Controlling RSS Feeds,” on page 108

19.3.1 Configuring a Proxy Server

Your Kablink Teaming system should be located behind your firewall. If Teaming users want to access the Teaming site from outside your firewall, you should set up a proxy server outside your firewall to provide access.

19.3.2 Setting the Teaming Administrator Password

The Kablink Teaming site is initially installed to allow administrator access by using the username `admin` and the password `admin`. The Teaming administrator password should be changed immediately after installation, as described in “[Accessing Your Basic Teaming Site as the Site Administrator](#)” in “[Basic Installation](#)” in the *Kablink Teaming 2.0 Installation Guide*.

19.3.3 Setting Up SSL Connections

All communication with the Kablink Teaming site should be configured to use SSL connections, as described in:

- ◆ Section 18.2, “Securing E-Mail Transfer,” on page 100

- ♦ [Section 18.1, “Securing LDAP Synchronization,” on page 99](#)
- ♦ [Section 18.3, “Securing HTTP Connections,” on page 101](#)

19.3.4 Shortening the Teaming Session Timeout

By default, if a user’s Kablink Teaming session is idle for four hours (240 minutes), Teaming logs the idle user out. For increased security for your Teaming site, you can make the session timeout shorter, as described in [“Changing the Teaming Session Timeout”](#) in [“Advanced Installation and Reconfiguration”](#) in the *Kablink Teaming 2.0 Installation Guide*.

19.3.5 Using Role-Based Access Control

Kablink Teaming controls all access to folders and entries by using role-based access controls. Teaming is intended to be used primarily for the sharing of information, so many default access rights tend toward allowing at least universal read access. For information on setting access controls for your Teaming site, see:

- ♦ [Chapter 2, “Planning User Access to Workspaces and Folders,” on page 15](#) in this guide
- ♦ [“Controlling User Access”](#) in the *Kablink Teaming 2.0 Advanced User Guide*

19.3.6 Monitoring Inbound E-Mail

You can configure Kablink Teaming to receive e-mail and post the messages as entries in a folder, as described in [“Enabling Inbound E-Mail”](#) in [“Basic Installation”](#) in the *Kablink Teaming 2.0 Installation Guide*. Because e-mail is inherently unsecure, there is no way to be sure that the senders are who they claim to be. Entries posted by e-mail include the e-mail address of the sender to alert Teaming users about the origin of the postings.

19.3.7 Preventing Web Services Access

The default Kablink Teaming installation allows authenticated access via Web services, as described in [“Configuring Web Services”](#) in [“Advanced Installation and Reconfiguration”](#) in the *Kablink Teaming 2.0 Installation Guide*. If you are not using Web services, you can disable them.

19.3.8 Controlling RSS Feeds

Because RSS readers are outside of the authentication Teaming system, the URL provided by Kablink Teaming for an RSS feed embeds some authentication information about the user. This means that the RSS URL must be protected and not shared between users. For this reason, RSS is not recommended for use on highly sensitive data. If necessary, you can disable RSS feeds for your Teaming site, as described in [“Managing RSS Feeds”](#) in [“Advanced Installation and Reconfiguration”](#) in the *Kablink Teaming 2.0 Installation Guide*.