



**Installing and Managing Lotus Workplace (QuickPlace) 6.5.1 for iSeries**



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# Chapter 1

## Getting Started With Team Workplace for iSeries

Welcome to IBM® Lotus® Team Workplace (QuickPlace®) 6.5.1 for iSeries™! Team Workplace is a revolutionary teamware application that allows people to collaborate instantly on the Internet or a company's intranet. Best of all, users can collaborate, share information and schedules, or manage a project while taking advantage of the reliability of an iSeries.

In addition to this document, the following resources may be helpful, and are available from the developerWorks product page for Lotus Team Workplace (QuickPlace). You can access the Team Workplace product page at the following Web address:

<http://www.ibm.com/developerworks/lotus/products>

*Team Workplace Administrator's Guide* - This guide describes server settings and how to administer a Team Workplace service in your enterprise.

*Team Workplace Developer's Guide* - This guide describes the Team Workplace architecture, how to access the Team Workplace API, and how to customize places in your enterprise.

Team Workplace Release Notes - This document discusses issues and fixes for Team Workplace 6.5.1 not available at the time of this writing.

The developerWorks product page also contains additional information that developers and administrators will find helpful, such as articles, downloads, toolkit information, and access to the Team Workplace Forum.

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### Overview of Team Workplace on iSeries

Getting Team Workplace up and running on your iSeries server involves the following tasks:

- Install the Domino™ software on iSeries if it has not already been installed.
- Install the Team Workplace software on iSeries.
- Configure a Domino server.
- Add Team Workplace to the Domino server.

- Configure a Team Workplace server on iSeries.  
**Note** Although you configure Team Workplace as an overlay onto a Domino server, this book refers to the Domino server with Team Workplace installed as the Team Workplace server.
- Start the Team Workplace server to make it available to users.

---

## What's new in release 6.5.1?

The following administration feature enhancements are new in release 6.5.1.

### **New product name**

The product name has changed from QuickPlace to Team Workplace. The documentation uses the new name when referring to 6.5.1 version of the product. The name QuickPlace is still used when referring to releases prior to 6.5.1. Parts of the product continue to use the name QuickPlace. For example, the name QuickPlace continues to appear in Team Workplace server Web addresses and file names, qpconfig.xml settings, notes.ini settings, and command names and prompts.

In most cases, the names Team Workplace and QuickPlace can be used synonymously. For example, the text in this document refers to the person who administers the product as the Team Workplace administrator, while the user interface may refer to the QuickPlace administrator. These names are interchangeable, and are meant to refer to the same person.

### **Support for Domino 6.5.1**

Team Workplace 6.5.1 for iSeries requires Domino 6.5.1 for iSeries.

### **Support for Instant Messaging and Web Conferencing (Sametime) 6.5.1**

Team Workplace 6.5.1 for iSeries supports IBM Lotus Instant Messaging and Web Conferencing (Sametime) version 6.5.1.

### **Performance enhancements**

The following performance enhancements provided with Team Workplace 6.5.1 result in quicker page loading.

- New method for retrieving system images  
Team Workplace 6.5.1 leverages Domino's http-accessible data directories by accessing system images from the file system. In previous releases system images were accessed from the resources.nsf database. As a result of this change, pages that use system images heavily, for example the Edit Page, load much more quickly than in previous releases. For backward compatibility, system images are stored in resources.nsf as well as in the file system.
- Page compression

Team Workplace 6.5.1 compresses the html and text content in pages it transmits to clients if the browser supports compression. The compression reduces the size of html transmissions to 30% or less of the uncompressed size, with the result that users can open large pages more quickly than in previous releases. Only html and text content is compressed, not images or attachments.

Due to problems that can occur with page compression with Internet Explorer 5.5, the Team Workplace server does not use page compression for Internet Explorer 5.5 or lower.

Page compression is enabled by default, but you can use the new `qpconfig.xml` setting `page_compression` to disable it. For more information, see the *Team Workplace Administrator's Guide*.

- By moving to the 1.3 level of the Java Developer Kit, the QPTOOL performance has been enhanced.

### **New My Places configuration settings**

There are two new settings available for configuring My Places in the `qpconfig.xml` file. Use the new `place_links` setting to control whether Team Workplace opens a place accessed through My Places in the current browser window or in a new browser window. Use the new `show_in_main_place` attribute of the `place_ui` setting to open the My Places list in the page a user is currently signed into rather than in the Quickplace/quickplace main place.

### **Ability to disable page caching on browsers**

As a security measure, you can use the new `qpconfig.xml` setting `browser_caches_place_content` to prevent Team Workplace from caching pages that contain data on the browser. This setting is effective on all supported browsers. For more information, see the chapter “Completing Other Server Configuration Tasks.”

### **New setting to enable text editing buttons to have a selected appearance**

In Team Workplace 6.5.1, by default the editing buttons used to edit pages, for example the bold and italic buttons, do not change appearance when they are selected or when text formatted with them is selected. This change results in better performance on browsers set to download new images at each request. You can use the new `qpconfig.xml` setting `richtext_button_animation` to change the default behavior and enable editing buttons to display a selected appearance. Do this if the browsers in your environment are not set to download new images at each request. For more information, see the *Team Workplace Administrator's Guide*.

---

## Team Workplace and Domino compatibility on iSeries

Lotus Domino for iSeries must be installed on the same iSeries server as Team Workplace for iSeries, and the software level of the two products must be compatible. This includes the following considerations:

- Team Workplace 6.5.1 for iSeries requires Domino 6.5.1 for iSeries. For the latest information about compatibility between Team Workplace and Domino releases for iSeries, see the following Web site:  
<http://www.ibm.com/eserver/iseries/quickplace>
- You must install both Domino and Team Workplace on an iSeries server, by installing Domino first and then installing Team Workplace. If you already have a previous release of QuickPlace installed (for example, release 2.0.8), you must first remove the QuickPlace product, upgrade to Domino 6.5.1, and then install Team Workplace 6.5.1. For more information, see Chapter 2, “Upgrading to Team Workplace 6.5.1 for iSeries.”
- If you have the compatible releases of Domino and Team Workplace already installed on your iSeries server, you can add Team Workplace to an existing Domino server or you may configure a new Domino server for use with Team Workplace.
- The Team Workplace server must use the Domino HTTP server. Team Workplace will not work with the IBM HTTP server. The IBM HTTP server can be running on your iSeries server for other applications, but you must follow the instructions in the section “Avoiding TCP/IP port conflicts” in Chapter 4 to ensure you do not encounter TCP/IP port conflicts between the Team Workplace server and the IBM HTTP server.

---

## Language considerations for Team Workplace

The QNOTES user profile has a locale object associated with it that identifies some of the language dependent settings, such as date and time separators, that will be used by the server. Team Workplace and Domino products on iSeries share the QNOTES user profile and locale objects. As a result, when you add Team Workplace to a Domino server, Team Workplace uses the QNOTES user profile and the locale settings that are associated with the Domino server.

Once the Domino server is prepared, you can install Team Workplace 6.5.1 and then install the files for your preferred language from the Team Workplace Language Pack as directed later in this guide.

---

## Instant Messaging and Web Conferencing integration

Team Workplace 6.5.1 has the ability to provide users with real-time awareness of the presence and availability of other members, enabling users to exchange instant messages and to plan and conduct instant online e-meetings. To enable these real-time collaboration features in Team Workplace, you must install IBM Lotus Instant Messaging and Web Conferencing (Sametime) 3.1 or 6.5.1, the Sametime Java Toolkit, and configure a Sametime server. It is required that you run Team Workplace and Sametime on separate Domino servers. This provides more effective version, scalability, and reliability management.

For more information on integrating Team Workplace with Sametime, see Chapter 6 “Setting Up the Team Workplace Server to Work With Sametime.”

---

## How to check the installed OS/400 software

You can determine what software is installed on your iSeries server by using iSeries Navigator or entering a CL command.

### Checking for installed software using iSeries Navigator

If you are using iSeries Navigator, follow these steps:

1. Open the iSeries server where you will install Team Workplace.
  - Click **Configuration and Service**.
  - Click **Software**.
  - Click **Installed Products**.
2. On the right, you will see a list of the installed products on your iSeries server.

To find the release of Domino you are running, look for 5733LD6 or 5733L65 in the **Product** column. Look under the **Release** column to see which release of Domino you are running. For example, V6R5M1 is Release 6.5.1 of Domino.

To find the release of Team Workplace you are running, look for 5733LQP under the **Product** column. Look under the **Release** column to see what release of Team Workplace you are running. For example, V6R5M1 is Release 6.5.1 of Team Workplace.

## Checking for installed software using commands

**Tip** Access the OS/400® command interface by signing on to your iSeries server, such as from a 5250 emulator window on a workstation that is communicating with the server. To enter a command, type the command on any line following the symbol ==> and press the Enter key. To have the system prompt you for details of a command, type the command name (such as DSPSFWRSC) and press F4 instead of Enter.

To determine what software is currently installed on your iSeries server, type the following command and press Enter:

```
DSPSFWRSC
```

The Resource ID column shows the installed software resource number, such as 5733LQP for Team Workplace. Press F11 to see the version and release of the software.

---

## OS/400 authorities required to install and set up Team Workplace

OS/400 offers extensive security capabilities to prevent unauthorized access to OS/400 functions and data. The person who installs the Team Workplace software and sets up the Team Workplace server must sign on to the iSeries server using a user profile that has special authorities.

- To install the Team Workplace software, your user profile must have the following authorities:
  - \*ALLOBJ (access to all OS/400 objects)
  - \*SECADM (security administration)
- To set up (configure) a Team Workplace server, your user profile must have the following authorities:
  - \*ALLOBJ (access to all OS/400 objects)
  - \*IOSYSCFG (device and communications configuration)
  - \*JOBCTL (job control)
  - \*SECADM (security administration)

The security officer has the required authorities. If you are not the security officer, use the Display User Profile (DSPUSRPRF) command to determine if your user profile has the required authorities:

1. Type the following OS/400 command and press Enter:

```
DSPUSRPRF user-id
```

where *user-id* is your user ID (the name of your user profile).

2. Press the Page Down key and look for the special authority field to display the special authorities for the user profile.

If your user profile does not have the required authorities, ask the security officer to either install and setup Team Workplace or to add the required authorities to your user profile.

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## Team Workplace server requirements

The Team Workplace for iSeries server requires the following hardware and software. When possible, use the recommended equipment, rather than the minimum required, for better performance and easier maintenance.

### Hardware

- IBM® iSeries based on PowerPC™ (RISC) technology.  
Although a Team Workplace server can run on any PowerPC model of iSeries, your iSeries server models are optimized for client/server applications such as Team Workplace. You can also run Team Workplace on the Dedicated Server for Domino.
- Minimum 256MB memory, 512MB recommended.
- Minimum 500MB free disk space for Team Workplace executables and data (such as data directories and Help files).
- 10+MB disk space for each Team Workplace (this requirement varies as it is based on how much information each Team Workplace uses).

**Note** Use these values as general guidelines for minimum memory and disk space. The requirements for your environment may be different. Team Workplace is similar to Lotus Domino in its memory and disk requirements. You can use the IBM eServer Workload Estimator to get an estimate of what you need for Team Workplace. For more information about sizing an iSeries for Domino, see the following Web site:

<http://www.ibm.com/eserver/iseries/support/estimator>

### Software

- IBM Operating System/400® (OS/400), 5722SS1, Version 5 Release 1 (V5R1) or Version 5 Release 2 (V5R2) with the latest PTFs applied.  
For more information on the latest PTFs, see <http://www.ibm.com/eserver/iseries/quickplace/support.htm> or <http://www.ibm.com/eserver/iseries/support>
- TCP/IP Connectivity Utilities for iSeries, 5722TC1 or later.
- IBM Developer Kit for Java, 5722JV1, plus JDK 1.3 which is option 5.

## Team Workplace and Domino

- IBM Lotus Team Workplace for iSeries, 5733LQP, Release 6.5.1
- IBM Lotus Domino for iSeries, 5733L65, Release 6.5.1

**Note** See the “Team Workplace and Domino compatibility on iSeries” section in this chapter for further details.

## External Directory Server

From the Team Workplace home page, the administrator must specify an external LDAP user directory from which Team Workplace members can be selected. If you decide to use iSeries Directory Services (LDAP), the following additional software is required:

- OS/400 - Directory services, 5722SS1 option 32.

**Note** If you choose to run iSeries Directory Services (LDAP) on the same system where you are installing your Team Workplace server, you must take steps to ensure you do not encounter port conflicts between the servers. For more information, see “Avoiding TCP/IP port conflicts” in Chapter 4.

More information about connecting to an external user directory is available in Chapter 5 “Setting Up the Team Workplace Server for Offline.”

## Instant Messaging and Web Conferencing (Sametime)

In order for Team Workplace to take advantage of the awareness, instant messaging, and online meeting features of Sametime, you need the following software installed on your iSeries server:

- IBM Lotus Instant Messaging and Web Conferencing (Sametime) for iSeries, 5733LST, Release 3.1 or 6.5.1

For information about setting up your Team Workplace server to take advantage of Sametime features, see Chapter 6 “Setting Up the Team Workplace Server to Work With Sametime.”

## Supported networks and protocols

The Team Workplace for iSeries server runs with the TCP/IP network protocol.

## Team Workplace client requirements

The Team Workplace client workstation requires the following software:

- **Operating System:** Windows™ 2000, Windows XP Professional, Red Hat Enterprise Linux 3.0 WS

- **Browser:** Microsoft™ Internet Explorer 5.5 with Service Pack 2 on Windows, Microsoft Internet Explorer 6 on Windows, Mozilla 1.4.1 on Red Hat Enterprise Linux 3.0 WS

**Note** Due to problems that can occur with page compression with Internet Explorer 5.5, the Team Workplace server does not use page compression for Internet Explorer 5.5 or lower.

---

## Differences for Team Workplace on iSeries

Team Workplace for iSeries is different from Team Workplace for Windows in the following ways:

### File attachment sizes

File attachments to a page in Team Workplace on your iSeries platform are limited to approximately 2GB in size.

### Fonts

Team Workplace for iSeries does not support some of the fonts that are available for Team Workplace on the Windows platform. In addition, the rendering of the text using the fonts is different on your iSeries server. As a result, certain fonts may look different and the images generated with certain fonts may have slightly different sizes for Team Workplace on the iSeries platform, when compared with Team Workplace on Windows or in offline mode. Team Workplace for iSeries looks for its available fonts list in the following directory in the iSeries integrated file system:

/QIBM/ProdData/Lotus/Domino651/TTFonts

### Running multiple servers on a single iSeries

The iSeries platform allows you to run multiple servers and applications within the same logical partition (LPAR). In addition to your Team Workplace server, you may decide to run multiple Domino servers, Sametime servers, HTTP servers, and LDAP servers, all in the same iSeries LPAR. However, you must carefully configure your TCP/IP environment so that the various servers do not encounter port conflicts. It is recommended that you assign a separate TCP/IP address to each server and that you bind each server to its assigned IP address. In addition, be sure that your iSeries server is properly sized to handle the workload.

For more information, see the following:

- “Avoiding TCP/IP port conflicts” in Chapter 4
- The document *Installing and Managing Sametime for iSeries*
- Technote #1091353, “Sametime for iSeries: Can Sametime 3.x and QuickPlace Be Installed on the Same System?” You can find this technote by searching for “1091353” at the following Web site:

<http://www.ibm.com/software/support>

### Getting at LDAP directory servers from behind a firewall

If you plan to use an LDAP directory to do user lookup from your Team Workplace server and your iSeries server is behind a firewall, but the LDAP server is outside the firewall, your iSeries server administrator must configure Client Socks support using iSeries Navigator. For details, see one of the following:

- *OS/400 Sockets Programming*, SC41-5422-03 or later, which is available from the iSeries Online Library through the following Web site:

<http://www.ibm.com/eserver/series/infocenter>

- *AS/400 Internet Security: IBM Firewall for AS/400*, SG24-2162, which is available from the IBM Redbooks Web site:

<http://www.ibm.com/redbooks>

### QPTool application

Team Workplace administrators can use the QPTool application to automate many common tasks. Team Workplace for iSeries offers administrators two options for working with QPTool utilities. You can initiate a command using the OS/400 command interface or through the Domino console. The syntax used to initiate the commands depends on which interface you use.

For example, to lock a place using the OS/400 command interface, type the following at the command prompt and press Enter:

```
qptool SERVER(servername) COMMAND(lock) PARM('-p place1')
```

where *servername* is the name of the Team Workplace server, and *place1* is the name of the place being locked.

To lock a place using the Domino console, type the following at the console prompt and press Enter:

```
load qptool lock -p place1
```

where *place1* is the name of the place being locked.

For detailed information on each utility available with QPTool, see the *Team Workplace Administrator's Guide*.

---

## Where to find more information

Before installing and configuring a Team Workplace server, you should refer to the following documents on the product CD-ROM for updated information:

**Note** Updated versions of these documents are available at the Lotus Developer Domain Documentation Library at

<http://www.ibm.com/lotus/ldd/doc>.

- The Team Workplace Readme file (Readme.html) located in the root directory
- *Installing and Managing Team Workplace for iSeries* (qpseries.pdf) located in the /Docs directory
- *Team Workplace Administrator's Guide* located in the /Docs directory

The following additional Team Workplace documentation is available at the Lotus Developer Domain Documentation Library:

- Team Workplace 6.5.1 Release Notes
- Team Workplace Developer's Guide

You may also find the following resources helpful:

- The Lotus Team Workplace for iSeries Web site at the following address:  
<http://www.ibm.com/eserver/iseries/quickplace>
- The Lotus Team Workplace Web site at the following address:  
<http://www.lotus.com/products/qplace.nsf>
- The iSeries Information Center CD-ROM, which is provided with your iSeries server, has details about installing, setting up, and using TCP/IP. It also includes an overview of Client Access Express and iSeries Navigator.
- The iSeries book *Client Access Express for Windows - Setup* (SC41-5507) has details on setting up Client Access Express on both your iSeries server and a workstation. It also contains information about setting up TCP/IP on a workstation. This book is available from the iSeries Information Center at the following Web site:  
<http://www.ibm.com/eserver/iseries/infocenter>
- The Lotus book *Installing and Managing Domino for iSeries* has details on setting up and controlling Domino servers on iSeries. It includes instructions on how to verify that TCP/IP is set up and running on your iSeries server. It also has a basic introduction to iSeries for those who are new to this platform. This book is included on the Domino for iSeries server CD as files i400help.NSF and i400help.PDF. You can also view or download this book, and the latest release notes from the Lotus Developer Domain Documentation Library at the following Web address:  
<http://www.ibm.com/lotus/ldd/doc>  
You can find other Domino for iSeries information on the IBM Domino for iSeries Web site at:  
<http://www.ibm.com/eserver/iseries/domino>
- If you plan to also use Sametime, review the Sametime for iSeries Web site at the following address:  
<http://www.ibm.com/eserver/iseries/sametime>



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## Chapter 2

# Upgrading to Team Workplace 6.5.1 for iSeries

This chapter explains procedures for upgrading to Team Workplace 6.5.1 from a previous release. If you do not have a previous version of QuickPlace on your iSeries server, skip this chapter and go to Chapter 3 “Installing the Team Workplace Software.”

**Note** Team Workplace 6.5.1 for iSeries only supports an upgrade from QuickPlace 2.0.8 or later. If your current release of QuickPlace for iSeries is prior to 2.0.8, you must first upgrade to 2.0.8 or later.

In this Team Workplace release, the process of upgrading your Team Workplace server and places has been separated into independent stages. This separation gives you the flexibility to upgrade your Team Workplace servers with significantly less downtime than in previous releases.

Once you install the new Team Workplace server, users can continue to work in their old places, and create new places. The old places remain available to users except when they are locked for the relatively short time during the actual upgrade process. You can choose to upgrade places and PlaceTypes when it is most convenient.

**Note** Although old places remain available to users, old PlaceTypes are not available until they are upgraded.

To upgrade to Team Workplace 6.5.1 you must install or upgrade to Domino 6.5.1, upgrade the design of databases on the server, upgrade the places and PlaceTypes, and register the places and PlaceTypes with the Place Catalog in your service. These procedures are detailed in the following topics in this chapter:

- Upgrading and new features
- Upgrading from a stand-alone environment
- Upgrading from an overlay environment
- Upgrading the design of databases on the server
- Upgrading places and PlaceTypes
- Registering places with the Place Catalog
- Upgrading a super user
- Upgrading a user directory

---

## Upgrading and new features

Once the Team Workplace 6.5.1 server is running, new features are available in all newly created places. However, old places and PlaceTypes must be upgraded for most new features to work. The following table details the status of some of the features before and after places and PlaceTypes are upgraded.

<i>Feature</i>	<i>Before place and PlaceType upgrade</i>	<i>After place and PlaceType upgrade</i>
MyPlaces	Works in newly created places. The list of MyPlaces will not include any old places.	Works in all places
Sametime Meeting	Does not work in old places	Works
Sametime Awareness	Works in some pages of old places, but does not work in folders.	Works
2.0.8 super user	Works in 2.0.8 places only.	No longer works. To enable the super user functionality for 6.5.1 places, you must set the super user in qpconfig.xml. For more information on super users, see the <i>Team Workplace Administrator's Guide</i> .
6.5.1 super user	Works only in new places	Works in all places
Search Places	Works, but it is recommended that you upgrade places and register places with the Place Catalog before enabling.	Enabled
2.0.8 PlaceTypes	Do not work	Work

*Continued*

<i>Feature</i>	<i>Before place and PlaceType upgrade</i>	<i>After place and PlaceType upgrade</i>
QPTool commands	The following QPTool commands do not work on old places and PlaceTypes: <ul style="list-style-type: none"> <li>• register</li> <li>• unregister</li> <li>• changehierarchy</li> <li>• changemember</li> <li>• placecatalog</li> <li>• refresh</li> <li>• removemember</li> <li>• repair</li> <li>• report</li> <li>• sendmail</li> </ul>	All commands work
Admin Utility, including replicamanager for creating replica stubs in a cluster	No longer works; functionality replaced by QPTool commands and super user functionality set in qpconfig.xml	No longer works; functionality replaced by QPTool commands and super user functionality set in the qpconfig.xml file
QPMove	No longer works.	No longer works. Use qptool register -install.
QPUser	No longer works. Use qptool password.	No longer works. Use qptool password.
QPCheck	No longer works. Use qptool repair.	Not longer works. Use qptool repair.
nquickplacenightly	No longer works. Functionality has been separated into: <ul style="list-style-type: none"> <li>• qptool newsletter</li> <li>• qptool deadmail</li> <li>• qptool remove -cleanup</li> </ul>	No longer works. Functionality has been separated into: <ul style="list-style-type: none"> <li>• qptool newsletter</li> <li>• qptool deadmail</li> <li>• qptool remove -cleanup</li> </ul>

---

## Upgrading from a stand-alone environment

While QuickPlace 2.0.8 servers could be configured as stand-alone servers or overlaid on a Domino server, a Team Workplace 6.5.1 server must be overlaid on a Domino 6.5.1 server.

If you are running a stand-alone 2.0.8 server, you must follow these steps to convert your stand-alone server to an overlay server:

1. End your QuickPlace server, ensuring that the subsystem is also ended.

2. Back up your data by copying the user place subdirectories (except for “quickplace”), and PlaceType subdirectories from the data/QuickPlace directory to a temporary directory.

**Note** Each user place and PlaceType is a subdirectory under the QuickPlace subdirectory of the server’s data directory.

For example, if your place is called Acme and the data directory of the QuickPlace server is /server/data, then the Acme subdirectory would be /server/data/quickplace/Acme.

If your PlaceType is called AcmePT, then the AcmePT subdirectory would be /server/data/quickplace/AreaTypes/AcmePT

**Caution** Do not copy the .NTF files from the AreaTypes directory. Only copy the PlaceType subdirectories from the AreaTypes directory. Also, do not copy the help, quickplace, or tutorial subdirectories.

3. Delete the stand-alone QuickPlace server by typing the following OS/400 command and pressing Enter:

```
CFGLQPSVR SERVER(servername) OPTION(*DELETE)
```

where *servername* is the name of your stand-alone QuickPlace server.

**Note** If you do not delete the stand-alone server, all of the QuickPlace data will remain on your iSeries server, but you may not be able to access it from Team Workplace after installing Team Workplace 6.5.1.

4. Delete any existing QuickPlace hotfixes.

To see a list of QuickPlace hotfixes, type the following OS/400 command and press Enter:

```
DSPPTF LICPGM(5733LQP)
```

To delete the hotfixes, type the following command and press Enter:

```
RMVPTF LICPGM(5733LQP) SELECT(PTF#)
```

5. Delete the QuickPlace licensed program by typing the following OS/400 command and pressing Enter:

```
DLTLICPGM LICPGM(5733LQP)
```

6. Install or upgrade to Domino 6.5.1, if a previous version is currently installed. For more information, see the book *Installing and Managing Domino for iSeries* (i400help.pdf).

7. Prepare the Domino 6.5.1 server for the addition of Team Workplace.
  - If you plan to install Team Workplace in a language other than English, visit the Team Workplace for iSeries Web site at the following address for a link to the latest information regarding Domino 6.5.1 language versions and the additional steps that may be necessary to prepare the Domino server for your preferred language:  
<http://www.ibm.com/eserver/iseries/quickplace>
  - Start the Domino server and use Domino Administrator to edit the Server document. Verify that the “Fully qualified internet host name” field on the **Basics** tab contains the fully qualified name of the Domino server and not the name of the iSeries system. If necessary, edit the field and save the Server document.
8. Insert the Team Workplace for iSeries CD-ROM into your iSeries CD-ROM drive.
9. On any OS/400 command line, type the following command and press F4:  
**LODRUN**
10. On the LODRUN display, type the following value in the Device field and press Enter:  
**\*opt**
11. In the Directory field, type the following value and press Enter:  
 **'/os400 '**
12. When the Team Workplace option screen appears, type a 1 beside the Team Workplace product option and press Enter to begin the installation.
13. If you prefer to use a non-English version of Team Workplace, you should install the Team Workplace Language Pack at this time. The Language Pack can either be installed from CD-ROM or downloaded from the Web. Language Pack installation instructions are included with the Language Pack as file Read1st.txt.
14. Configure a new Domino server and add Team Workplace to that server using either iSeries Navigator or the following OS/400 command:  
**ADDLQPDOM**
15. Copy user places back to the <server data directory>/QuickPlace directory from the temporary directory.  
**Caution** Do not overwrite the new AreaTypes, help, quickplace, or tutorial directories.
16. Copy PlaceTypes back to the <server data directory>/QuickPlace/AreaTypes directory.  
**Caution** Do not overwrite the .NTF files in this directory.

17. Upgrade the design of all databases on the server. See the topic “Upgrading the design of databases on the server” later in this chapter.
18. Upgrade places and PlaceTypes. See the topic “Upgrading places and PlaceTypes” later in this chapter.
19. Register the server and all places with the Place Catalog. When upgrading from a stand-alone environment, existing places are not available until they are registered. You must use “-install” in the arguments for QPTool register command. For example, `qptool register -a -install`. See the topic “Registering places with the Place Catalog” later in this chapter.

#### Notes

- When you upgrade to 6.5.1, you must set SSL and mail on the Domino server. For more information on setting SSL and mail, see the document *Domino 5 Administration Help*, which is available from the Lotus Developer Domain at the following Web address:  
<http://www.ibm.com/lotus/ldd/doc>
- You can install a new Team Workplace 6.5.1 server in the same domain as a 2.0.8 server, and users can work in places on both. However, you should upgrade all clustered servers at the same time.
- Old PlaceTypes cannot be used to create new places, and old places cannot be used to create new PlaceTypes. Old places cannot be refreshed from their PlaceTypes, and old PlaceTypes cannot be refreshed from their places, until both are upgraded.
- Connecting to an external Domino Directory is supported throughout the upgrade process. However, once the upgrade is complete, you must switch to an LDAP external directory for the environment to be supported.
- If a user directory has nested groups (groups that are members of groups) that contain Team Workplace users, use the following NOTES.INI setting on the Team Workplace server to allow searches of the nested groups:

**QuickPlaceNestedGroupLimit=value**

where *value* represents the number of levels of groups the server can search. By default the level is 1, meaning that the server does not search nested groups.

**Note** In earlier releases of QuickPlace, the default was 8 levels.

---

## Upgrading from an overlay environment

This procedure describes how to upgrade your Team Workplace server to Release 6.5.1 only if you are already running a Domino server, and QuickPlace 2.0.8, 3.0, 3.0a (English only), or 3.0.1 is installed on top of your Domino server (overlay configuration).

If you are upgrading from a stand-alone server environment, see the section “Upgrading from a stand-alone environment” earlier in this chapter.

To upgrade from QuickPlace 2.0.8, 3.0, 3.0a (English only), or 3.0.1 to Team Workplace 6.5.1 on iSeries, follow these steps:

1. End any existing Domino servers on your iSeries server. After ending the servers, be sure that any active Domino subsystems are also ended.
2. Delete any QuickPlace hotfixes if they are installed.

To see a list of QuickPlace hotfixes, type the following OS/400 command and press Enter:

```
DSPPTF LICPGM(5733LQP)
```

To delete the hotfixes, type the following command and press Enter:

```
RMVPTF LICPGM(5733LQP) SELECT(PTF#)
```

3. Delete the QuickPlace licensed program by typing the following command and pressing Enter:

```
DLTLICPGM LICPGM(5733LQP)
```

4. Install or upgrade to Domino 6.5.1, if a previous version is currently installed. For more information, see the book *Installing and Managing Domino for AS/400*.
5. Prepare the Domino 6.5.1 server for the addition of Team Workplace.
  - Install the Domino 6.5.1 update that is included on your Team Workplace 6.5.1 media. See the Readme.html file for detailed instructions.
  - If you plan to install Team Workplace in a language other than English, visit the Team Workplace for iSeries Web site at the following address for a link to the latest information regarding Domino 6.5.1 language versions and the additional steps that may be necessary to prepare the Domino server for your preferred language:

<http://www.ibm.com/eserver/iseries/quickplace>

- Start the Domino server and use Domino Administrator to edit the Server document. Verify that the “Fully qualified internet host name” field on the **Basics** tab contains the fully qualified name of the Domino server and not the name of the iSeries system. If necessary, edit the field and save the Server document. If any changes were made to the Server document, restart your server to make the changes take affect.
6. Insert the Team Workplace for iSeries CD-ROM in your iSeries CD-ROM drive.
  7. On any OS/400 command line, type the following command and press F4:  
**LODRUN**
  8. On the LODRUN display, type the following value in the Device field and press Enter:  
**\*opt**
  9. In the Directory field, type the following value and press Enter:  
 **'/os400 '**
  10. When the Team Workplace option screen appears, type a 1 beside the Team Workplace product option and press Enter to begin the installation.  
  
The system loads the Team Workplace for iSeries programs to the appropriate OS/400 libraries and /QIBM directories. You will see status messages as the system installs the software.  
  
**Note** If you already have Domino installed on your iSeries server and the server ID files are password protected, you will be prompted to enter the password. After the password has been entered, press Enter to continue with the installation of Team Workplace. If your server ID file has multiple passwords, the passwords must be entered one at a time.
  11. If you prefer to use a non-English version of Team Workplace, you should install the Team Workplace Language Pack at this time. The Language Pack can either be installed from CD-ROM or downloaded from the Web. Language Pack installation instructions are included with the Language Pack as file Read1st.txt.
  12. Start the Team Workplace server.  
  
**Note** When you start the Domino server you also start the Team Workplace server.
  13. Upgrade the design of all databases on the server. See the topic “Upgrading the design of databases on the server” later in this chapter.
  14. Upgrade places and PlaceTypes. See the topic “Upgrading places and PlaceTypes” later in this chapter.
  15. Register the server and all places with the Place Catalog. See the topic “Registering places with the Place Catalog” later in this chapter.

## Notes

- You can install a new Team Workplace 6.5.1 server in the same domain as a 2.0.8 server, and users can work in places on both. However, you should upgrade all clustered servers at the same time.
- Old PlaceTypes cannot be used to create new places, and old places cannot be used to create new PlaceTypes. Old places cannot be refreshed from their PlaceTypes, and old PlaceTypes cannot be refreshed from their places, until both are upgraded.
- If upgrading from 2.0.8, connecting to an external Domino Directory is supported throughout the upgrade process. However, once the upgrade is complete, you must switch to an LDAP external directory for the environment to be supported.
- If a user directory has nested groups (groups that are members of groups) that contain Team Workplace users, use the following NOTES.INI setting on the Team Workplace server to allow searches of the nested groups:

**QuickPlaceNestedGroupLimit=value**

where *value* represents the number of levels of groups the server can search. By default the level is 1, meaning that the server does not search nested groups.

**Note** In QuickPlace 2.0.8 and 3.0.x, the default was 8 levels.

---

## Upgrading the design of databases on the server

Use the QPTool upgrade command to upgrade the design of all databases on the Team Workplace server.

To upgrade the design of databases, follow these steps:

1. Open the Domino server console.
2. Enter the following command:

```
load qptool upgrade -server
```

**Tip** You can also run this QPTool command from an OS/400 command line by entering the following CL command:

```
qptool SERVER(servername) COMMAND(upgrade) PARM(-server)
```

3. When the upgrade process is complete, a file called qptool.upgrade.xml is created in the data directory. It contains xml such as the following:

```
<?xml version="1.0"?>
  <service>
    <servers>
      <server>
        <hostname>servername</hostname>
        <placetypes />
        <places />
        <action_status action="upgrade">
          <code>code number (0 if successful)</code>
          <message>error message(if there's an error)</message>
        </action_status>
      </server>
    </servers>
  </service>
```

Once the databases are upgraded, the following apply:

- The Team Workplace groups on this server are removed from the Domino Directory (names.nsf).
- The administrator place is upgraded.
- The Admin Utility (qpadmin.nsf) is deleted (if upgrading from release 2.0.8).
- New places created on the server have the 6.5.1 features enabled, including MyPlaces. Places which were created before installation and migrated to the new server have some new features, but they do not appear in MyPlaces until they are registered with the Place Catalog.
- It is recommended that you switch all servers that were using both the Domino Directory and the old super user functionality to an LDAP directory and the new qpconfig.xml super user functionality after upgrading the server and before upgrading any places. This way, the super user continues to work throughout the upgrading of places.

---

## Upgrading places and PlaceTypes

Use the QPTool upgrade command to upgrade places and PlaceTypes on the server. While a place is being upgraded it is locked. Once the upgrade is complete, it is unlocked again. When you upgrade multiple places at once, only the place being upgraded is locked. Then the upgrade process unlocks it and moves to the next place. Only places and PlaceTypes created on a QuickPlace 2.0.8 or later server can be upgraded to 6.5.1.

Before you upgrade places and PlaceTypes, old PlaceTypes cannot be used to create new places, and old places cannot be used to create new PlaceTypes. Old places cannot be refreshed from their PlaceTypes, and old PlaceTypes cannot be refreshed from their places, until both are upgraded.

To upgrade places or PlaceTypes, open the Domino server console and enter any of the following commands:

- To upgrade all places and PlaceTypes enter the following command:  
`load qptool upgrade -a`
- To upgrade a specific place, enter the following command:  
`load qptool upgrade -p placename`
- To upgrade a specific PlaceType, enter the following command:  
`load qptool upgrade -pt placetypername`

**Tip** You can also run QPTool from an OS/400 command line by entering the following CL command:

```
qptool
```

**Note** If you upgrade places and PlaceTypes incrementally (using -p or -pt), upgrade places first, then PlaceTypes. Also, you cannot change or refresh PlaceTypes until they are upgraded. Users should be told not to change or refresh PlaceTypes until all PlaceTypes are upgraded.

When the upgrade is complete, a file called qptool.upgrade.xml is created in the data directory. It contains xml such as the following:

```
<?xml version="1.0"?>
  <service>
    <servers>
      <server>
        <hostname>servername</hostname>
        <placetypes />
        <places>
          <place>
            <name>placename</name>
            <action_status action="upgrade">
              <code>code number (0 if successful)</code>
              <message>error message(if there's an
                error)</message>
            </action_status>
          </place>
        </places>
      </server>
    </servers>
  </service>
```

**Note** Once a place is upgraded, the UI components “SiteMapLauncher” and “My Places” are not added to any custom themes. Place managers must add these components themselves. For more information on UI components, see the *Team Workplace Developer’s Guide*.

For more information on the QPTool upgrade command see the *Team Workplace Administrator’s Guide*.

---

## Registering places with the Place Catalog

Use the QPTool register command to register places with the Place Catalog. The register command adjusts server-specific names when a place has been moved from one server to another, or if a place has been renamed on the same server. It also adds information about the place to the Place Catalog. The server is automatically registered with the Place Catalog when a place is created.

**Note** Place names in the Place Catalog must be unique. If your configuration allows for a single Place Catalog across multiple servers, you may encounter name collisions. If this happens, when you attempt to register a place you may receive an error that says the name already exists. The unregistered place name must be changed to a unique name by copying the place directory to a uniquely named directory before registration can be completed. For more information, see the chapter “Setting up the Place Catalog” in the *Team Workplace Administrator’s Guide*.

### To register places

1. Open the Domino server console.
2. Enter any of the following commands:
  - To register the place specified with the Place Catalog only:  
`load qptool register -p placename -placecatalog`
  - To register all places on the server with the Place Catalog only:  
`load qptool register -a -placecatalog`
  - To update server information for places that have been moved from another server, renamed on the current server, or restored from archive:  
`load qptool register -install -a`

**Note** This is the equivalent of the QPMove utility from previous releases. You must use this command if upgrading from a stand-alone configuration.

3. When register is complete, a file called qptool.register.xml is created in the data directory. It contains data similar to the following xml if register has been successful.

```
<?xml version="1.0"?>
  <service>
    <servers>
      <server>
        <hostname>servername</hostname>
        <places>
          <place>
            <name>placename</name>
            <action_status action="RegisterInPlaceCatalog">
              <code>code number (0 if successful)</code>
              <message>error message(if there's an
                error)</message>
            </action_status>
          </place>
        </places>
      </server>
    </servers>
  </service>
```

**Note** For more information on the QPTool register command see the *Team Workplace Administrator's Guide*.

---

## Upgrading a super user

To upgrade from a configuration with a super user on a QuickPlace 2.0.8 server connected to a Domino Directory, to a super user in this Team Workplace release, follow these steps:

1. Setup the Team Workplace 6.5.1 server. Do not uninstall the Admin Utility or disable the existing super user.
2. Use the qptool upgrade command to upgrade the Team Workplace server. The Domino Directory and super user still work.
3. Use the QPTool upgrade command to upgrade places on the Team Workplace server. The super user is removed from the ACL of upgraded places.

4. Switch the directory to an LDAP directory.
5. Configure the super user settings in qpconfig.xml to use new super user functionality. For more information, see Chapter 6 of the *Team Workplace Administrator's Guide*.
6. Stop and restart the server to make the changes take effect.

#### Notes

- Any previously existing super user remains in the ACL until a place is upgraded. If there is a new super user set in qpconfig.xml, then the old super user has access to old places and the new super user has access to new places. You can run the QPTool removemember command on old places to remove the old super user. Otherwise the old super user is removed from the ACL when the place is upgraded.
- In this Team Workplace release, the super user setting in qpconfig.xml does not work when the super user is in a Domino Directory. You must switch to an LDAP directory.

---

## Upgrading a user directory

A place can have local users or external users.

- Local users have contact and authentication information stored in the membership database of the place (Contacts1.nsf).
- The contact and authentication information for external users is stored in a user directory on an LDAP server. When an administrator selects members from the directory, a copy of their contact information is stored in the membership database of the place, but their authentication information is stored only in the user directory. These users can be added or removed as members of a place without affecting the information stored in the user directory. After you've connected to a user directory, you can edit a place member's information in the directory and the information is automatically updated in the place.

Connecting to a non-LDAP Domino Directory is only supported during the upgrade to Team Workplace 6.5.1 from a configuration that used a Domino Directory. Once you have upgraded your places to release 6.5.1, you should switch to an LDAP user directory.

- If you decide to connect to iSeries Directory Services (LDAP), the iSeries server must be running V5R1 or later.

- If you have been connecting to a Domino Directory with an earlier release of QuickPlace, you can modify your Domino server configuration so that you can access the same directory using the LDAP server protocol. For information about enabling the LDAP service on a Domino server, see the document *Domino Administration Help* which is available from the Lotus Developer Domain Documentation Library at the following Web address:  
<http://www.ibm.com/lotus/ldd/doc>
- If you select iSeries Directory Services (LDAP) for your LDAP server and run it on the same system where you are installing your Team Workplace server, you must take steps to ensure you do not encounter port conflicts between the servers. For more information, see “Avoiding TCP/IP port conflicts” in Chapter 4.
- If you plan to enable Sametime features for your Team Workplace users, there are additional considerations for setting up your LDAP server. For more information, see Chapter 6 “Setting Up the Team Workplace Server to Work With Sametime.”

For information about connecting to an LDAP user directory, see Chapter 5 “Setting Up the Team Workplace Server for Offline.”

---

## Chapter 3

# Installing the Team Workplace Software

Follow the steps in this chapter if you are installing Team Workplace on your iSeries server for the first time. If you are upgrading an existing Team Workplace server, see Chapter 2 “Upgrading to Team Workplace 6.5.1 for iSeries.”

To install the Team Workplace software, follow these steps:

1. Review the Readme.html file that is included with the Team Workplace product for any information not available at the time this document was published. Any additional updates will be posted as they become available on the Team Workplace for iSeries Web site at the following address:

<http://www.ibm.com/eserver/series/quickplace>

2. Sign on to your iSeries server with a user profile that has the necessary authority. For more information, see “OS/400 authorities required to install and setup Team Workplace” in Chapter 1.
3. Verify that your iSeries server meets all of the Team Workplace server requirements documented in Chapter 1 “Getting Started With Team Workplace for iSeries.”
4. Place the system in a restricted state by entering the following command on an OS/400 command line:

```
ENDTCP *IMMED
```

This will prevent users from accessing the system while you are installing or upgrading the software.

Be sure to wait until the command finishes running before you proceed to the next step.

5. Install or upgrade to Domino 6.5.1, if a previous version is currently installed. For more information, see the book *Installing and Managing Domino for AS/400*.
6. End any existing Domino servers on your iSeries server. After ending the servers, be sure that any active Domino subsystems are also ended.
7. Insert the Team Workplace for iSeries CD-ROM in your iSeries CD-ROM drive.
8. On any OS/400 command line, type the following command and press F4:

```
LODRUN
```

9. On the LODRUN display, type the following value in the **Device** field and press Enter:  
**\*opt**
10. In the Directory field, type the following value and press Enter:  
**' /os400 '**
11. When the Team Workplace option screen appears, type a 1 beside the Team Workplace product option and press Enter to begin the installation. The system loads the Team Workplace for iSeries programs to the appropriate OS/400 libraries and /QIBM directories.  
**Note** If the Domino server ID files are password protected, you will be prompted to enter the password. After the password has been entered, press Enter to continue with the installation of Team Workplace. If your server ID file has multiple passwords, the passwords must be entered one at a time.
12. If you prefer to use a non-English version of Team Workplace, you should install the Team Workplace Language Pack at this time. The Language Pack can either be installed from CD-ROM or downloaded from the Web. Language Pack installation instructions are included with the Language Pack as file Read1st.txt.
13. When the installation is complete, take the system out of restricted state by entering the following command on an OS/400 command line:  
**STRTCP**  
  
Wait for the command to finish before proceeding.
14. You can now configure Team Workplace to run on a Domino server by entering OS/400 commands. For more information, see Chapter 4 “Adding Team Workplace to a Domino Server.”

---

## Chapter 4

# Adding Team Workplace to a Domino Server

To add Team Workplace to a Domino server, you must use the Add QuickPlace to Domino command (ADDLQPDOM), and complete the following tasks:

- Configure a Domino server for the addition of Team Workplace
- Prepare to add Team Workplace to a Domino server using CL commands
- Stop the Domino server
- Add Team Workplace to the Domino server
- Restart the Domino server and access Team Workplace

---

### Configuring a Domino server for the addition of Team Workplace

After you have installed the Domino 6.5.1 for iSeries software, you must configure a Domino server for the addition of Team Workplace. Once you have configured a Domino server, continue to the next section, “Preparing to add Team Workplace to a Domino server” to make any necessary adjustments.

For more information on configuring a Domino server, see the book *Installing and Managing Domino for iSeries* (i400help.pdf).

### Preparing to add Team Workplace to a Domino server

Follow these steps to prepare the Domino server for the addition of Team Workplace.

1. Start your Domino server and access the Server document for the server where you will add Team Workplace. Make sure that the setting “Maximum requests over a single connection” is set to 1. To find this setting:
  - Start **Lotus Notes**.
  - Open the Domino Directory of the server where you will add Team Workplace.
  - Open the Server document and select the **Internet Protocols** tab.
  - Click the **HTTP** tab and look for the setting in the **Basics** section.
  - If necessary, set **Maximum Requests over a Single Connection** to 1.
  - Click **Save and Close**.

2. Verify that the “Fully qualified internet host name” field on the **Basics** tab contains the fully qualified name of the Domino server and not the name of the iSeries system. If necessary, edit the field and save the Server document.
3. Verify that the server has at least Editor access to the Domino Directory. To verify that the Domino server has Editor access:
  - From a Notes workspace, right-click the Domino Directory of the server where you will add Team Workplace.
  - Select **Database - Access Control**.
  - Select the server name where you will add Team Workplace in the **People, Servers, Groups** box.
  - In the **Access** box, verify that the access level for the server is at least Editor.
4. Verify that the Maximum Internet name and password for the Domino server is set to at least Editor access. To check the setting:
  - Select **File - Database - Access Control - Advanced**.
  - Locate the **Maximum Internet name and password** field. It should indicate at least Editor access.
5. Verify that the server ID has the NetCreator and NetModifier roles assigned to it. If these roles are not assigned to the server ID, you will be able to create a Team Workplace after you finish this installation procedure, but you will be unable to gain access to the Team Workplace you create. To verify the server ID has the correct roles:
  - Right-click the Domino Directory of the server where you will add Team Workplace and select **Database - Access Control**.
  - Select the server name where you will add Team Workplace in the **People, Servers, Groups** box.
  - In the **Roles** box, verify that NetCreator and NetModifier roles are selected.
  - Close the **Access Control List** dialog box.

6. Verify that the Domino Directory includes a LocalDomainServers group document and that the Domino server to which you will add Team Workplace is listed in that document. If no such group document exists, create one and specify in it the name of the Team Workplace server. To verify that the LocalDomainServers group document exists:
  - Open the Domino Directory of the server where you will add Team Workplace.
  - Select **Groups**.
  - Select **LocalDomainServers**. If a LocalDomainServers group document does not exist, then create one by clicking **Add Group**.
  - Verify that the Domino server to which you will add Team Workplace is listed. If needed, add the name of the Domino server to which you will add Team Workplace.
7. If any of the users who will be accessing the Team Workplace server are beyond your firewall and you want one or more of those users to be able to create an offline version of their online Team Workplace, change the Output Timeout setting on the Domino server to 300 minutes. This setting gives modem users sufficient time to download an offline Team Workplace. To set the Output Timeout setting on the Domino server:
  - Open the Server Document of the Domino server where you will add Team Workplace.
  - Select **Internet Protocols**.
  - Select the **HTTP** tab.
  - In the **Output Timeout** field, type 300 minutes.
8. If you have multiple Domino servers or have multiple HTTP tasks on the same iSeries server, verify that the Domino server has a unique host name or TCP/IP address and that the “Bind to host name” option is enabled.

**Note** You must also complete the steps in the section “Avoiding TCP/IP conflicts” in chapter 4 to ensure that each of the other Domino servers and HTTP tasks on your system are using separate unique host names or TCP/IP addresses.

To locate the Host name field and verify that the Bind to host name option is enabled:

- Open the Server document of the Domino server where you will add Team Workplace.
- Select **Internet Protocols**.
- Select the **HTTP** tab.
- In the **Host name(s)** field, enter a unique TCP/IP address or TCP/IP host name of your Domino server.

- In the **Bind to host name** field, select **Enabled**.
- Restart the Domino server to make any changes take effect.

For more information on unique Domino host names and the Bind to host name option, see the Lotus book, *Installing and Managing Domino for iSeries* (i400help.pdf). See the “Where to find more information” section in Chapter 1 for details on obtaining this book.

9. Sign on to your iSeries server where you installed the Team Workplace for iSeries software. Make sure you use a user profile that has the required authorities to set up a Team Workplace server. See the section “OS/400 authorities required to install and set up Team Workplace” in Chapter 1.
10. Verify that HTTP is configured for the Domino server where you want to add Team Workplace. On any OS/400 command line, display the list of Domino servers using the Work with Domino Servers command:
11. Find the Domino server on the display and use option 13 to edit the NOTES.INI file.
12. On the Edit File display, scroll down and look for the server tasks line and check to see that HTTP is listed. The line may look like this:

```
WRKDOMSVR
```

```
ServerTasks=HTTP,Replica,Router,Update,Stats,AMgr,Adminp,Sched,CalConn
```

If you don't see HTTP listed, enable it using the Change Domino Server (CHGDOMSVR) command.

For more information on enabling HTTP on your Domino server, see the Lotus book, *Installing and Managing Domino for iSeries* (i400help.pdf). See the “Where to find more information” section in Chapter 1 for details on obtaining this book.

You have completed the preparation for adding Team Workplace to an existing Domino server.

---

## Avoiding TCP/IP port conflicts

If there are other Domino servers and HTTP tasks running on the same iSeries server where you have installed Team Workplace, you must ensure that each of them is using a unique host name or TCP/IP address so that you will not encounter port conflicts between the various servers.

If any of the following are configured on your iSeries server, complete the steps in this section that correspond to your situation:

- Other Domino servers
- Sametime servers
- iSeries Directory Services (LDAP)
- IBM HTTP Server

### Preparing other Domino servers

Complete the following steps for each Domino server on your system:

- Open the Server document of the Domino server.
- Select **Internet Protocols**.
- Select the **HTTP** tab.
- In the **Host name(s)** field, enter a unique TCP/IP address or TCP/IP host name of your Domino server.
- In the **Bind to host name field**, select **Enabled**.
- Restart the Domino server to make any changes take effect.

For more information on unique Domino host names and the Bind to host name option, see the Lotus book, *Installing and Managing Domino for iSeries* (i400help.pdf). See the “Where to find more information” section in Chapter 1 for details on obtaining this book.

### Preparing Sametime servers

See the document *Installing and Managing IBM Lotus Instant Messaging and Web Conferencing (Sametime) for iSeries* for information about properly configuring your Sametime server to use a unique host name and TCP/IP address.

## Preparing iSeries Directory Services (LDAP)

If you are not planning to use iSeries Directory Services (LDAP) on the same iSeries as your Team Workplace server, you should disable it by completing these steps:

1. Open iSeries Navigator and open your iSeries server.
2. Click **Network**.
3. Click **Servers**.
4. Click **TCP/IP**.
5. From the list on the right, right-click **Directory** and select **Stop**.

If you are planning to use it, complete these steps to force the Directory Services server to use a specific IP address:

6. Open iSeries Navigator and open your iSeries server.
7. Click **Network**.
8. Click **Servers**.
9. Click **TCP/IP**.
10. From the list on the right, right-click **Directory** and select **Properties**.
11. Click the **Network** tab.
12. Click the **IP Addresses** button.
13. Select **Use selected IP addresses** and specify from the list which interfaces you want to bind.
14. Click **OK** to close the Directory - IP Addresses page.
15. Click **OK** to close the Directory Properties page.

## Preparing IBM HTTP servers

Your Team Workplace server will use the Domino HTTP server. It is possible that you may have already configured the IBM HTTP server on your iSeries server for other applications. If so, then you must verify that each instance of the IBM HTTP server is bound to a specific TCP/IP address.

To change the IBM HTTP server settings, follow these steps:

1. If the IBM HTTP server is currently running, end it.
  - Open iSeries Navigator.
  - Open your iSeries server where you plan to run Team Workplace.
  - Click **Network**.
  - Click **Servers**.
  - Click **TCP/IP**.
  - From the list on the right, right-click **HTTP Administration** and select **Stop Instance**—>**All**.
2. Start the HTTP Administration server.
  - Click **Network**.
  - Click **Servers**.
  - Click **TCP/IP**.
  - From the list on the right, right-click **HTTP Administration** and select **Start**.
3. Open the IBM HTTP server configurations page.
  - Start your Web browser.
  - Enter the following URL:  
`http://myiSeries:2001`  
where *myiSeries* is the name of your iSeries server.
  - Click **IBM HTTP Server for AS/400**.
  - Click **Configuration and Administration**.
  - Select the **Configuration** tab.
4. Select a configuration from the pull-down menu on the left, and complete the following items for each configured instance of the IBM HTTP server.

If the **Server type** field indicates **Original**, follow these steps:

  - From the list on the left, select **Basic settings**.
  - Enter the IP Address or hostname for this server in the **Host name** field.
  - Select the option **Bind server to host IP address**.
  - Click **Apply**.

If the **Server type** field indicates **Apache**, follow these steps:

  - From the list on the left, select **Global Settings**.
  - Click **General Settings** under the **Web Site Definition** heading.
  - Find the IP address and port table in the section called **Server IP address and port to listen on**.
  - If **All** is listed as the IP address, select that row.

- Edit this field to replace **All** with the IP Address for this server.
  - Click **OK**.
5. When each instance of the IBM HTTP server is configured to use a specific IP address, restart the HTTP servers.
    - Open iSeries Navigator.
    - Open your iSeries server where you plan to run Team Workplace.
    - Click **Network**.
    - Click **Servers**.
    - Click **TCP/IP**.
    - From the list on the right, right-click **HTTP Administration** and select either **Start Instance**—>**All**, or select the particular server instances you would like to start.

For more information on managing the IBM HTTP server, see the iSeries Information Center at the following Web site:

<http://www.ibm.com/eserver/series/infocenter>

## Stopping the Domino server

Before adding Team Workplace to an existing Domino server, stop the Domino server by following these steps:

1. From any OS/400 command line, type the following and press Enter:

```
WRKDOMSVR
```

2. On the Work with Domino Servers display, type 6 in the Opt column next to the Domino server where you will add Team Workplace and press Enter.
3. Press Enter to confirm your server selection.

**Tip** You can also stop a Domino server by entering the following command:

```
ENDDOMSVR SERVER(servername)
```

where *servername* is the name of the Domino server.

4. Periodically press F5 to refresh your screen and wait for the status to be \*ENDED.

**Note** You can verify that all server jobs have ended by viewing the Work with Active Jobs display, which is option 9 from the Work with Domino Servers display.

## Adding Team Workplace to the Domino server

To add Team Workplace to a Domino server, follow these steps:

1. On any OS/400 command line, type the following command and press F4:  
**ADDLQPDOM**
2. Fill in the following fields and press Enter to add Team Workplace to the Domino server.

<i>Field</i>	<i>Explanation</i>
Domino server name	The name of the Domino server where you will add Team Workplace.
Team Workplace Administrator Name	Specifies the name of the person who is the administrator for this Team Workplace server. The administrator's name should be a local user and should not be present in the external directory.
Administrator password	The password you want to use for the Team Workplace administrator's ID. Keep a record of this password as you will need it to sign on to the Team Workplace home page as the administrator.
Server ID Password	The Server ID password is only required if the Domino server is password-protected. You would have specified this password when the Domino server was created. If the ID file requires multiple passwords, then the passwords must be enclosed inside single quotes and separated by commas. For example: Password..... 'password1', 'password2'
Start Domino Server	If you press F10, an additional parameter is displayed. This parameter gives you the option of starting the Domino server after adding the Team Workplace server. To start the Domino server, specify *YES.

## TCP/IP Autostart of Domino Servers with OS/400 V5R1

With Domino 6.5.1 for iSeries, the keyword AUTOSTART has been added to the CFGDOMSVR and CHGDOMSVR CL commands. The default setting for this keyword and the value used for all existing Domino servers is AUTOSTART(\*NO). Specifying AUTOSTART(\*YES) allows a Domino server to be started with TCP/IP when any of the following commands are issued:

```
STRTCP
```

```
STRTCP SVR(*AUTOSTART)
```

```
STRTCP SVR(*DOMINO)
```

The equivalent support is also available with ENDTCP and ENDTCP SVR or ENDTCP SVR(\*DOMINO).

## Restarting the Domino server and accessing Team Workplace

After you enable Team Workplace on the Domino server, you need to restart the Domino server.

**Note** If you chose to start the Domino server from the ADDLQPDOM command display, then skip to step 4.

1. From any OS/400 command line, type the following command and press Enter:

```
WRKDOMSVR
```

2. On the Work with Domino Servers display, type a 1 next to the Domino server you want to start and press Enter.

**Tip** You can also start a Domino server by entering the following command:

```
STRDOMSVR SERVER(servername)
```

where *servername* is the name of the Domino server.

3. Periodically press F5 to refresh the screen and wait for the server status to be \*STARTED.
4. To verify Team Workplace and HTTP are working properly, use option 5 to display the console for the Domino server. You should see messages that indicate Team Workplace has started and HTTP has started.

**Note** If the server status does not change from Starting to Started and your Domino server ID file is password protected, you may need to enter the server ID password from the Domino console. For more information on accessing the Domino console, see the Lotus book *Installing and Managing Domino for AS/400*.

5. Once the HTTP task is started, you can use a Web browser to access the Team Workplace home page at the following URL:

`http://dominoservername:port/quickplace`

where *dominoservername* is the name of your iSeries server and *port* is the port number.

**Note** Specifying a port number is optional, and will default to port 80 if nothing is specified.

You have completed adding Team Workplace to your Domino server. For information on managing your Team Workplace, see Chapter 8 “Managing Team Workplace for iSeries.”



---

## Chapter 5

# Setting Up the Team Workplace Server for Offline

This chapter explains how to set up Team Workplace for offline users.

For users to take places offline, you must configure Domino Off-Line Services (DOLS) on the Domino server. Domino Off-Line Services provides a way for users to take places offline, work in them, and synchronize the changes with an online replica on the Domino server. For more information on DOLS with Domino 6.5.1, see the “Domino Administrator Help” and the “Notes/Domino 6.5.1 Release Notes.” Both are available from the Lotus Developer Domain at the following Web address:

<http://www.lotus.com/ldd/doc>

To set up your Team Workplace server for offline, you must complete these tasks:

- Connect your Team Workplace server to an LDAP directory
- Enable DOLS
- Create the certifier IDs
- Create an offline Security Policy document
- Create a DOLS Pre-Installer CD (optional)

---

### Connecting your Team Workplace server to an LDAP directory

You must connect your Team Workplace server to an LDAP directory so that external LDAP users can work with Team Workplace and take places offline.

To connect your Team Workplace server to an LDAP directory, follow these steps:

1. Open a browser.
2. Enter the URL of the Team Workplace server administrator’s area. For example:  
<http://twpserver.enterprise.com/teamworplace>
3. Click **Sign In** and enter the name and password of the Team Workplace administrator.
4. Click **Server Settings** in the table of contents.
5. Click **User Directory** in the table of contents.
6. Click **Change Directory**.

7. Change the Directory Type to LDAP and enter the host name of your LDAP server. For example:  
LDAPserver.enterprise.com

---

## Enabling DOLS during Domino server install

If you are installing Domino for the first time, follow these steps to enable DOLS to work with Team Workplace.

1. Install the Domino 6.5.1 server.

When setting up your server using iSeries Navigator, choose the Advanced Server option, and select the DOLS check-box.

For help installing the Domino software, see the Domino for iSeries documentation available from the Lotus Developer Domain at the following Web address:

<http://www.ibm.com/lotus/ldd/doc>

2. Open the server's NOTES.INI file and add the following settings:

```
EXTMGR_ADDINS= qpexmgr
```

```
CheckCacheBeforeDSAPI=1
```

3. Save and close the NOTES.INI file.
4. Start the server.

---

## Enabling DOLS on an installed Domino server

If Domino is already installed and DOLS is not enabled, do the following to enable DOLS to work with Team Workplace.

1. If the server is running, make sure it is stopped before proceeding.
2. Using iSeries Navigator, open your iSeries server where your Domino server is installed.
3. Open the Properties dialog for your Domino server.
  - Click **Network**.
  - Click **Servers**.
  - Click **Domino**.
  - Right-click your Domino server and select **Properties**.

4. Change the server setting to Enable DOLS.
  - On the Services tab, select **Domino Off-Line Services** from the “Enable services” list.
  - Click **Enable**.
  - Click **OK**.

**Tip** You can also use an OS/400 command interface and enter the following command:

```
CHGDOMSVR SERVER(servername) DOLS(*YES)
```

where *servername* is the name of your Domino server.

5. Open the Properties dialog for your Domino server and edit the server’s NOTES.INI file:

- On the Initialization File tab, click the **Edit** button.
- Add the following settings:

```
EXTMGR_ADDINS= qpexmgr
```

```
CheckCacheBeforeDSAPI=1
```

**Note** If these lines begin with a semicolon (;), then these lines are designated as comments, and the semicolon should be removed.

6. Save and close the NOTES.INI file and click **OK** on the Properties dialog.
7. Start the server.

---

## Creating the certifier IDs

You must create certifier IDs to authenticate offline users, then create a DOLS Security Policy document and attach the ID to it. When users install places offline, the Domino server uses the certifier ID to generate a new ID for users and downloads the new ID to users’ computers. This ID authenticates users when they synchronize the offline and online versions of the place.

You must create separate Security Policy documents and IDs for local users (users stored in places), and external users (users stored in an LDAP directory). You can attach only one certifier ID to each Security Policy document.

For local users, you create an ID based on the server's certifier ID. The ID for local users will be /QP/<your\_server's\_org>. For example, /QP/ACME. For external users, you must create a certifier ID based on the hierarchical names of the users. For example, the ACME company might have an LDAP directory with the following hierarchical user names:

Jo Smith/Sales/ACME  
Ed Black/Marketing/ACME  
Sami Jordan/Research/ACME  
Sue Lee/Engineering/ACME  
Joe Contractor/ACME

Therefore, the hierarchical name scheme for ACME is:

/Sales/ACME  
/Marketing/ACME  
/Research/ACME  
/Engineering/ACME  
/ACME

where ACME is the Organization and Sales, Marketing, Research and Engineering are Organizational Units.

### **Create IDs for external users**

To create IDs for external users, follow one of these steps:

- For users in the same hierarchy as the Domino server, create an ID based on the server's ID, as you would for local users, but without the "/QP/."
- For users more than one organizational unit down the hierarchy from the server, create a new Security Policy document and new ID, and cross-certify the new ID with the server's ID.

The certifier ID authenticates offline users one level down from the last Organization or Organizational Unit in the certifier ID's hierarchical name.

For example, if users in /Sales/ACME are going to take places offline, the /ACME certifier ID will authenticate them. However, if users in /East/Sales/ACME are going to take places offline, you must create another Security Policy document for /Sales/ACME and create a new certifier ID with the hierarchical Organizational Unit name /Sales/ACME. If users in NY/East/Sales/ACME are going to take places offline, you must create another Security Policy document for East/Sales/ACME and create a new certifier ID with the hierarchical Organizational Unit name East/Sales/ACME.

- For users in a different organization from the server, you must also create a new ID and cross-certify that ID with the server's certifier ID.

For example, users in /Sales/ACME and /Marketing/ACME are going to take places offline from ServerA. But ServerA is in the ORG organization and its hierarchical organization name is /ORG. Therefore, you must create an /ACME certifier ID and cross-certify this ID with the server's /ORG certifier ID. After you provide users in /Sales/ACME and /Marketing/ACME with this new cross-certified ID, they can access the server in the /ORG organization.

**Caution** For security reasons, create new certifier IDs for offline users rather than use existing certifier IDs. Even if the new ID is based on an existing ID, it is a duplicate only in name. Creating a new ID ensures that users do not get certifiers that give them more access than they should have.

For more information on creating certifier IDs, see the Domino Administrator Help, which is available from the Lotus Developer Domain Documentation Library at the following Web address:

<http://www.ibm.com/lotus/ldd/doc>

## Authenticating offline users

To create and allow certifier IDs to authenticate offline users, follow the steps in this section:

**Note** To create a new ID for local users based on the server's certifier ID, the server's certifier ID must be on the same machine as the Domino Administrator. By default, the server's certifier ID file is called CERT.ID and is located in the Domino data directory on the server.

### Create a certifier ID from the server's certifier ID

1. Using Domino Administrator, select the Domino server, for example, ServerA/ACME.
2. Select the Configuration tab.
3. From the Tools display, click **Registration** —> **Organizational Unit**.
4. When prompted to enter a Domino server's certifier ID password, do one of the following:
  - If the certifier ID is from the Domino server you want, enter the password. This password was created by the administrator during server setup.
  - If you want a different Domino server's certifier ID, click **Cancel**, then choose the certifier ID file you want and enter the password when prompted. This password was created by the administrator during server setup.

5. Click **No** if the following message is displayed:  

```
"Domino Administrator: The current certifier ID contains no
recovery information and will not allow ID/password
recovery on IDs created with the certifier. The
'EscrowAgent' ID recovery mechanism is no longer supported.
Display this warning in the future?"
```
6. In the Register Organizational Unit Certifier dialog box, click **Registration Server** and choose the Domino server, for example, ServerA/ACME.
7. (Optional) Click **Certifier ID** to change which certifier ID to use to register the new certifier ID.
8. (Optional) Click **Set ID File** and set the location where Domino will store the certifier ID file.  
**Note** For security reasons, once this ID is attached to a Security Policy document in the DOLADMIN.NSF database, you should back up DOLADMIN.NSF and delete the ID file from your system directory.
9. In the Organizational Unit field, enter the Organizational Unit of the certifier ID file. If you are creating the ID for local users, enter QP (make sure it is capitalized). If you are creating the ID for external users, enter the name of the unit you are creating based on their name hierarchy. For example, if the users are in Sales/ACME, enter "Sales."
10. In the certifier password field, enter a password. For more information on understanding the password scale, see the Domino Administrator Help, which is available from the Lotus Developer Domain Documentation Library at the following Web address:  
<http://www.ibm.com/lotus/ldd/doc>
11. (Optional) Enter any of the following:
  - In the "Mail certification requests to (Administrator)" field, enter the name of the administrator who handles recertification requests. The name specified here appears in the Certifier document in the Domino Directory. If you create a certifier ID for an off-site administrator, enter that administrator's name in this field.
  - In the "Location (optional)" field, enter the text that appears in the Location field of the Certifier document.
  - In the "Comment (optional)" field, enter text that appears in the Comment field of the Certifier document.

12. Click **Register** at the bottom of the dialog box to create the certifier ID file in the Domino data directory.

### **Creating IDs and cross-certifying with the server's certifier ID (external users)**

You must create a certifier ID and cross-certify it with the server's ID if:

- External users are more than one level down from the last Organization or Organizational Unit in the server's hierarchical name. For example, if you want users in East/Sales/ACME to take Places offline from ServerA/ACME, you must create a Sales/ACME certifier ID and cross-certify it with the server's ID.
- External users are in a different organization than the server. For example, if ServerA is in the organization ORG, and you want users in East/Sales/ACME to take Places offline from ServerA, you must create a Sales/ACME certifier ID, and cross-certify it with ServerA's ID.

To create a certifier ID and cross-certify it with the server's certifier ID, follow these steps:

1. Using Domino Administrator, select your server. For example, ServerA/ORG.
2. Select the Configuration tab.
3. On the right, select **Registration** —> **Organization**.
4. Click **Registration Server** and choose your server's name. For example, ServerA/ORG.
5. Click **Set ID File** and choose a directory in which to save the new certifier ID file. For example, C:\Lotus\Domino\data.
6. In the Organization name field, enter the organization of the external users. For example, ACME.
7. (Optional) Enter a country code.
8. In the Certifier password field, enter a password for this certifier ID.
9. Click **Register** to create the certifier ID.
10. Using Domino Administrator, select the Configuration tab.
11. Click **Certification**, and select **Cross Certify**.
12. Choose the server's certifier ID file. By default, the server's certifier ID file is called CERT.ID and is located in the Domino data directory on the server.
13. Enter the password for your server's certifier ID when prompted. This password was created by the administrator who set up the Domino server.
14. Choose the certifier ID you want to cross-certify. For example, ACME.ID.

15. In the Issue Cross Certificate dialog box, click **Cross Certify**.

**Note** For more information on creating certifiers, see the Domino Administrator Help, which is available from the Lotus Developer Domain Documentation Library at the following Web address:

<http://www.ibm.com/lotus/ldd/doc>

16. Keep a copy of the ID file(s) you create.

You have finished creating certifier IDs. Continue to the next section, “Creating an offline Security Policy document.”

---

## Creating an offline Security Policy document

You must create a DOLS Security Policy document to specify the security policy for offline users.

DOLS Security Policy documents are stored in the doladmin.nsf database on the Domino server. For security reasons, it is recommended that you back up doladmin.nsf and delete the ID file from your system directory once a certifier ID is attached to the Security Policy document.

Create your new Security Policy document by following these steps:

**Note** If you have both local and external users, you must create a separate Security Policy document for each group of users.

1. Using Domino Administrator, open your server and click the **Configuration** tab.
2. Expand **Offline Services**.
3. Click the **Security** view.
4. Click **New Security Policy**.
5. Click the **Basics** tab.
6. In the **Security Domain** field, enter one of the following:
  - If the document is intended to allow local users to take places offline, enter `/QP/domainname`, where *domainname* is the domain of the server with these places.  
For example, for users in places on a server in the ACME domain, enter `/QP/ACME`.

- If the document is for external users, enter the hierarchical name of the certifier ID.

For example, if the document is for users in East/Sales/ACME, enter /East/Sales/ACME.

7. Select “Automatically generate user IDs” as your security policy.
8. Click the **Automatic** tab.
9. In the **Certifier ID to use** field, attach the ID file you created.
10. In the **Password for certifier ID** field, enter the password you specified when creating the certifier ID.
11. Save the document and close Domino Administrator.
12. Restart the server.

The server is now DOLS enabled. Places created on the server can be taken offline.

**Note** Anonymous users cannot install offline.

---

## Using the DOLS Pre-Installer CD

You can speed up the offline installation process for users by pre-installing places, custom filesets, custom programs, and DOLS client software files to client machines using a DOLS Client Pre-Installer CD.

To obtain a DOLS Client Pre-Installer CD, contact IBM Software Services for Lotus representatives, or download the CD code from <http://www.ibm.com/lotus/dols> and create your own CD.

To create the DOLS Pre-Installer CD, follow these steps:

1. Double-click the DOLS Client Pre-Installer CD executable file to extract the program files into the root drive of a new CD, or into a folder on a client hard drive or shared network drive.
2. Create a new \Content directory inside the program directory for the DOLS Client Pre-Installer CD.
3. Create a new \CustomFilesets directory inside the \Content directory you just created.
4. Copy the following files from the Team Workplace server’s data directory to the \Content\CustomFilesets directory on the CD.
  - <data directory>/domino/html/download/filesets/n\_QuickPlace.exe
  - <data directory>/domino/html/download/filesets/n\_QuickPlace.inf

5. To further reduce the initial download and synchronization time for offline Team Workplace(s) on your servers, add places to the CD:
  - a. Create a \Subscriptions sub-directory in the \Content directory on the CD.
  - b. Under \Content\Subscriptions, create a directory structure unique to each place. Create each new Team Workplace subscription folder using the replica ID of the Main.nsf database of the place, name the second folder “TeamWorkplace,” and name the third folder with the title of the place. For example, for the place “MyTeamWorkplace” you would create the following directory:

\Content\Subscriptions\72638271927F46D8\TeamWorkplace\MyTeamWorkplace

To get the replica ID of a place’s Main.nsf database, open the database in Domino Administrator. Then choose File-Database-Properties from the menu, and click the “info” tab. Do not include colons in the folder name, only numbers. For example, if a replica ID of the Main.nsf for a place is 72638271:927F46D8, create the folder \72638271927F46D8.

- c. Use the local file system to copy the directories of the local replicas into the appropriate directory on the CD for each Team Workplace subscription. For example, if the file location for the place called “MyTeamWorkplace” is in \Data\TeamWorkplace\MyTeamWorkplace on the server, copy or move these files (such as, Main.nsf, Contacts1.nsf, Search.nsf, and all PageLibraryxxx.nsf) into the following directory on the CD:

\Content\Subscriptions\72638271927F46D8\TeamWorkplace\MyTeamWorkplace

Once this is complete, you can distribute the DOLS Pre-Installer CD(s) to your users. The installer runs automatically when users place the CD into the drive. If it doesn’t run, users can double-click setup.exe on the CD. After the files are installed, users can open the place in their browser and install it offline.

**Note** See the readme file on the DOLS Pre-Installer CD for system and browser requirements, tasks for administrators and users, and more reference information.

---

## Chapter 6

# Setting Up the Team Workplace Server to Work With Sametime

You can set up your Team Workplace server to take advantage of Sametime features such as awareness, chat and meetings. This enables your users to send instant messages with other members of the Team Workplace and schedule online meetings directly from the Team Workplace calendar.

Setting up this environment on an iSeries server involves special preparation and implementation procedures.

Detailed instructions are updated regularly in the Lotus technote #7003786 “QuickPlace for iSeries: Enabling Integration With Sametime” which is available at the following Web address:

<http://www.ibm.com/support/docview.wss?rs=203&uid=swg27003786>



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## Chapter 7

# Managing Team Workplace for iSeries

Team Workplace for iSeries provides administrative functions for managing a Team Workplace server on iSeries. For example, you can start or stop a server using either one of two interfaces:

- iSeries Navigator.

You may prefer to use iSeries Navigator if you are more familiar with a graphical user interface such as Windows.

For more information, see Chapter 8, “Managing Team Workplace for iSeries Using iSeries Navigator.”

- CL commands that you enter using the OS/400 command interface.

You may prefer to use commands if you are familiar with the OS/400 command interface. OS/400 commands provide some capabilities that are not currently available in iSeries Navigator.

For more information, see Chapter 9, “Managing Team Workplace for iSeries Using CL Commands.”

Since Team Workplace runs on a Domino server, the actions you perform on that Domino server impact the Team Workplace server. For example, if you stop the Domino server, you stop Team Workplace.

Domino for iSeries also provides equivalent administrative functions through both iSeries Navigator and OS/400 commands. The book *Installing and Managing Domino for iSeries* describes these administrative interfaces. See “Where to find more information,” in Chapter 1 for details on obtaining this book.

The administrative capabilities provided through Team Workplace for iSeries are limited to Team Workplace servers. You use the Team Workplace client interface or the server console to perform general administrative tasks, such as creating Team Workplace users.

---

## OS/400 authorities required to manage Team Workplace servers

The person who manages Team Workplace servers on iSeries must sign on to the iSeries server using a user profile that has the OS/400 authorities required to perform each administrative task.

- Starting and ending a Domino server with Team Workplace.

To start and end a Domino server with Team Workplace installed, an administrator needs to have \*JOBCTL special authority. To give a user \*JOBCTL authority, the OS/400 security officer must change the special authority field in the user's profile using either iSeries Navigator or the Change User Profile (CHGUSRPRF) command.

**Note** Although users with \*JOBCTL authority can start and stop Domino servers, they will not be able to see the status of the servers. If you require your users to monitor the status of the servers, you must increase their authority without introducing unnecessary security risks. You can increase their authority by entering the following OS/400 command:

```
GRTOBJAUT OBJ(QSYS/QUSRNOTES) OBJTYPE(*LIB) USER(userid)
AUT(*USE)
```

- Removing Team Workplace from a Domino server.

To remove Team Workplace from a Domino server, an administrator needs to have \*ALLOBJ, \*IOSYSCFG, \*JOBCTL, and \*SECADM special authorities. To give a user these special authorities, the OS/400 security officer must change the special authority field in the user's profile using either iSeries Navigator or the Change User Profile (CHGUSRPRF) command.

---

## Chapter 8

# Managing Team Workplace for iSeries Using iSeries Navigator

From the Windows-like interface of iSeries Navigator on a workstation, you can perform the following operations on a Team Workplace server:

- Start the Team Workplace server
- End the Team Workplace server
- Determine whether the server is active or inactive
- Display and change the properties of the server
- Remove Team Workplace from a Domino server

### Accessing Team Workplace function in iSeries Navigator

To access the Team Workplace function in iSeries Navigator, follow these steps:

1. Open iSeries Navigator.
2. Open your iSeries server where you installed Team Workplace.
3. Click **Network**.
4. Click **Servers**.
5. Click **Domino**.

On the right, you will see a list of all Domino servers configured on your iSeries server, including those used for Team Workplace. This is your reference point for accessing most of the Team Workplace functions in iSeries Navigator.

### Starting a Team Workplace server using iSeries Navigator

The steps for starting a Team Workplace server are the same as those for starting a Domino server. To start a Team Workplace server, follow these steps:

1. Open iSeries Navigator.

2. Start the Team Workplace server.
  - Open your iSeries server where you added Team Workplace.
  - Click **Network**.
  - Click **Servers**.
  - Click **Domino**.
  - Right-click the Domino server where you added Team Workplace and select **Start**.
3. Periodically press F5 to refresh and wait for the server status to be **Started**.

**Note** If the server status does not change from Starting to Started and your Domino server ID file is password protected, you may need to enter the server ID password from the Domino console. For more information on accessing the Domino console, see *Installing and Managing Domino for iSeries* (i400help.pdf).
4. You can verify that the Team Workplace server has started by using a Web browser to access the Team Workplace home page at the following URL:  
`http://DominoServerName:port/quickplace`  
where *DominoServerName* is the name of your iSeries server and *port* is the port number.

**Note** Specifying a port number is optional, and will default to port 80 if nothing is specified.

### Ending a Team Workplace server using iSeries Navigator

The steps for ending a Team Workplace server are the same as those for ending a Domino server. To end a Team Workplace server, follow these steps:

1. Open iSeries Navigator.
2. End the Team Workplace server.
  - Open your iSeries server where you added Team Workplace.
  - Click **Network**.
  - Click **Servers**.
  - Click **Domino**.
  - Right-click the Domino server where you added Team Workplace and select **Stop**.

3. Periodically press F5 to refresh and wait for the server status to be **Stopped**.

**Note** Stopping the Team Workplace server may take a few minutes.

## Determining server status using iSeries Navigator

To determine server status using iSeries Navigator, follow these steps:

1. Open iSeries Navigator.
2. Open your iSeries server where you added Team Workplace.
3. Click **Network**.
4. Click **Servers**.
5. Click **Domino**.

On the right, you will see a list of all Domino servers configured on your iSeries server. To determine the status of your Team Workplace server, look for the following under the status column:

<i>Status</i>	<i>Meaning</i>
Stopped	All server tasks are stopped. The server is not active.
Stopping	The primary server tasks are ending.
Starting	The primary server tasks are beginning, but not yet available for use by clients.
Started	The server is running and can be accessed from a workstation. This status may also be displayed if a server is configured to use a release that is not currently installed on this OS/400 partition.
Unknown	The system cannot determine the status of the server.

## Removing Team Workplace from a Domino server

When you remove Team Workplace from a Domino server, files related to Team Workplace that were added to the Domino server data directory or were created while running Team Workplace components are removed. You can only use OS/400 CL commands to remove Team Workplace from a Domino server. For detailed instructions on performing this action, see Chapter 9 “Managing Team Workplace for iSeries Using CL Commands.”



---

## Chapter 9

# Managing Team Workplace for iSeries Using CL Commands

If you are familiar with the OS/400 command interface, you may be more comfortable managing Team Workplace for iSeries using commands.

This chapter will demonstrate how to perform the following operations on a Team Workplace server:

- Start the Team Workplace server
- End the Team Workplace server
- Determine the status of the server
- Change the Team Workplace server properties
- Remove Team Workplace from a Domino server

### Starting a Team Workplace server using commands

The steps for starting a Team Workplace server are the same as those for starting a Domino server. To start a Team Workplace server, follow these steps:

1. On any OS/400 command line, type the following command and press Enter:  
`wrkdomsvr`
2. On the Work with Domino Servers display, type a 1 in the Opt column next to the Domino server where you added Team Workplace and press Enter.
3. If the server is password protected, type 8 next to the Domino server to work with the console, and press Enter.
4. Enter the password at the appropriate prompt.
5. Press F3 to exit the console.

**Tip** You can also start a Domino server by entering the following command:

```
STRDOMSVR SERVER(servername)
```

where *servername* is the name of the Domino server.

6. Periodically press F5 to refresh your screen and wait for the server status to be \*STARTED.

**Note** Starting the Team Workplace server may take a few minutes. You can verify that the HTTP task and the Team Workplace task have started by displaying the console, which is option 5 from the Work with Domino Servers display.

7. You can verify that the Team Workplace server has started by using a Web browser to access the Team Workplace home page at the following URL:

`http://DominoServerName:port/quickplace`

where *DominoServerName* is the name of your iSeries server and *port* is the port number.

**Note** Specifying a port number is only required if the port defined for Team Workplace is not the default port 80.

### Ending a Team Workplace server using commands

The steps for ending a Team Workplace server are the same as those for ending a Domino server. To end a Team Workplace server, follow these steps:

1. On any OS/400 command line, type the following command and press Enter:  
`WRKDOMSVR`
2. On the Work with Domino Servers display, type a 6 in the Opt column next to the Domino server where you added Team Workplace and press Enter.

**Note** This will end the server in a controlled state. If you need to end the server immediately, press F4 instead of Enter and type \*IMMED in the “How to end” parameter.

3. Press Enter to confirm your server selection.

**Tip** You can also stop a Domino server by entering the following command:

```
ENDDOMSVR SERVER(servername)
```

where *servername* is the name of the Domino server.

- Periodically press F5 to refresh your screen and wait for the server status to be \*ENDED.

**Note** Ending the Team Workplace server may take a few minutes. You can verify that all server jobs have ended by viewing the Work with Active Jobs display, which is option 9 from the Work with Domino Servers display.

- From the Work with Domino Servers display, record the subsystem that is used by the Domino server where you will add Team Workplace.
- On the command line, type the following command and press Enter:  
**WRKSBS**
- In the Opt column next to the subsystem you recorded in step 5, type a 4 and press Enter to end the subsystem.
- Press Enter to confirm your subsystem selection.
- Press Enter again to return to the Work with Domino Servers display.

### Determining server status using commands

To determine the server status using commands, follow these steps:

- On any OS/400 command line, type the following command and press Enter:  
**wrkdmsvr**
- On the Work with Domino Servers display, you will see a list of all the Domino servers configured on your iSeries server. To determine the status of your Team Workplace server, look under the Domino Status column for the Domino server where you added Team Workplace. You will see one of the following values:

<i>Status</i>	<i>Meaning</i>
*ENDED	All server tasks have ended. The server is not active.
*ENDING	The primary server tasks are ending.
*STARTED	The server is running.
*STARTING	The primary server tasks are beginning.

**Note** To confirm that all components have started, type a 5 in the Opt column to display the Domino console. On the Display Domino Console display, look for the message, "QuickPlace Server started" which indicates that all Team Workplace components have started. You may need to press F5 periodically to refresh the screen.

## Changing the Team Workplace server properties

After you create a Team Workplace server, you can change many of the properties that you originally specified. To change the properties of a Team Workplace server, follow these steps:

1. End the server that you want to modify.
2. On any OS/400 command line, type the following command and press Enter:  
**wrkdmsvr**
3. On the Work with Domino Servers display, type a 2 in the Opt column beside the server and press Enter or PF4.

**Tip** You can also change the Domino server properties after stopping the server by typing the following command and pressing F4:

```
CHGDOMSVR SERVER(servername)
```

where *servername* is the name of the Domino server. You may be required to respond to messages before continuing.

4. On the Change Domino Server display, make any necessary changes to the values and press Enter.
5. Restart the Team Workplace server to make the changes take effect.

## Removing Team Workplace from a Domino server using commands

The Remove Team Workplace from a Domino Server command makes the following changes to a Domino server:

- Removes Team Workplace data from the Domino server.
- Removes the Team Workplace directory from the Domino server data directory.
- Changes the NOTES.INI file for the Domino server to disable Team Workplace.

To remove Team Workplace from a Domino server, follow these steps:

1. End the Domino server and subsystem using the steps in the previous section “Ending a Team Workplace server using commands.”
2. Type the following OS/400 command:

```
RMVLQPDOM dominoservername
```

where *dominoservername* is the actual name of the Domino server.

3. Verify that you want to remove Team Workplace from the Domino server by typing a G and pressing Enter.

**Note** If you do not wish to remove Team Workplace from the Domino server, press any other key.

4. Restart the Domino server.

5. To verify that Team Workplace was removed from the Domino server, use a Web browser to try to access the Team Workplace home page for the Domino server at the following URL:

`http://dominoservername:port/quickplace`

where *dominoservername* is the name of your Team Workplace server and *port* is the associated port number. For example:

**`http://twpserver1:81/quickplace`**

You should get an error indicating that the file was not found.



---

## Chapter 10

# Using XML to Perform Actions in a Team Workplace Service

You can use XML to perform actions in your Team Workplace service, such as creating places, adding or removing members, or locking and unlocking places, by accessing the Team Workplace XML API. To do this, you must:

- Set up your server environment.
- Specify Team Workplace Objects, using XML, and the actions to perform on them. See the *Team Workplace Developer's Guide* for XML examples.
- Run your XML against the Java interpreter on the server.

The API processes the XML, performs the actions, and provides output in XML detailing any errors that prevented actions from being performed.

### Setting up the server environment

In addition to the steps below that describe using the ADDENVVAR command, you can use the SETDOMENV command. For more information on this approach, see the following Web site:

<http://www.ibm.com/eserver/iserries/domino/devtools/rundomcmd/setdomenv.htm>

**Note** When using the SETDOMENV command, do not set the USER parameter to \*SERVER. If the USER parameter is set to \*SERVER, you will no longer be able to run commands.

To set up the server environment to use the Team Workplace XML API, follow these steps:

1. Set the CLASSPATH environment variable by entering the following command and pressing Enter:

```
addenvvar envvar(CLASSPATH)
value(' /qibm/proddata/lotus/quickplace/quickplace.jar:/qibm
/proddata/lotus/quickplace/xercesImpl.jar:/qibm/proddata/lo
tus/quickplace/xalan.jar:/qibm/proddata/lotus/quickplace/xm
l-apis.jar:/qibm/proddata/lotus/quickplace/log4j-1.1.8compat.
jar:/qibm/proddata/lotus/domino651/Notes.jar:/qibm/proddata
/lotus/domino651/xml4j.jar:/qibm/proddata/lotus/domino651/L
otusXSL.jar:/qibm/proddata/lotus/domino651/jsdk.jar:/qibm/p
roddata/lotus/domino651/dservlet.jar')
```

2. Set the PATH environment variable by entering the following command and pressing Enter:

```
addenvvar envvar(PATH)
value( '/qibm/proddata/java400/jdk13/bin:/qibm/proddata/lotus/
domino651:/qibm/userdata/lotus/domino651:/qibm/proddata/lotus/
notes:/qibm/userdata/lotus/notes:/notes/data' )
```

where */notes/data* is the actual path for your server's data directory.

**Note** When using the multi-version capable releases of Domino, the Domino related directories will change with each release. For example, in the directory above, *domino651* changes to *domino652* with the 6.5.2 release of Domino. Because of this behavior, it is important to avoid hard coding this directory PATH in your applications. For more information about the implications of using multi-version capable releases of Domino, see the following Web site: <http://www.ibm.com/eserver/series/domino/mv>

**Note** If you receive an error message stating that the environment variable ServerName is missing, it may be because the command did not include the correct data directory. Verify the data directory path and run the command again.

3. Set the current directory to the server data directory by typing the following command and pressing Enter:

```
chgcurdir dir('/notes/data')
```

where */notes/data* is the actual path for your server's data directory.

4. Run the job under the QNOTES user profile, using one of the following procedures:

- Inside your application, swap to the QNOTES profile by using the following system APIs:
  - QSYGETPH - get profile handle
  - QWTSETP - set profile
- Use the Submit Job command (SBMJOB) to submit the job to run under QNOTES.

On the Submit Job command display, press F10 for additional parameters and specify the following:

- Current library field is set to \*CURRENT
- Copy environment variables field is set to \*YES
- Allow multiple threads field is set to \*YES

- Alternatives to steps 2-4 above are documented in the following Domino for iSeries Web site:

<http://www.ibm.com/eserver/series/domino/devtools/rundomcmd/setdomenv.htm>

## Running the XML

You can either create the XML in an .xml file or add the XML to an existing Java application.

If you create an .xml file, you can run the file from the command line. To run an .xml file from the command line, enter the following command:

```
java com.lotus.quickplace.api.QPAPI -i inputFile.xml
```

This command runs the .xml file and the XML API engine against the Java interpreter. The engine parses the XML and performs the actions you've specified. It then provides XML output that reflects whether the actions were successful.

The XML is output to the command line interface (stdout) by default, but you can specify that it be output as a file instead. To specify an output file, add the name of the output file to the end of the command. For example:

```
java com.lotus.quickplace.api.QPAPI -i inputFile.xml -o  
outputFile.xml
```

If *outputFileName* does not exist, it is created.

Use the World Wide Web Consortium (W3C) standards to add XML to an application. For more information, visit the W3C Web site at the following address:

<http://www.w3.org/>

For samples of the XML files, see the *Team Workplace Developer's Guide*. This book is available from the following Web site:

<http://www.ibm.com/lotus/ldd/doc>



---

## Chapter 11

# Team Workplace Dictionary Languages

Team Workplace for iSeries currently ships several different language dictionaries that the spell check program uses. These dictionaries are named *abc.dic* where *abc* is the language of the dictionary. By default, the US/English dictionary, *us.dic*, is used and copied into a file called *wpdic.dic*. In order to enable a different language, you must rename the current *wpdic.dic* file before renaming the new language dictionary to *wpdic.dic*.

### Changing Team Workplace dictionary languages using iSeries Navigator

To change the dictionary that the spell check program uses, follow these steps:

1. Open iSeries Navigator.
2. Open your iSeries where you added Team Workplace.
3. Open the following directories to locate the dictionaries.
  - Click **File Systems**.
  - Click **Integrated File System**.
  - Click **Root**.
  - Click **QIBM**.
  - Click **ProdData**.
  - Click **LOTUS**.
  - Click **QUICKPLACE**.
  - Click **SHARED**.
4. Right-click *wpdic.dic* and select **Rename**.
5. When you are asked to enter a new name for the object, type:  
`wpdic.bak`
6. Right-click the language dictionary you want to use and select **Rename**.

7. Rename the dictionary file:

**wpdic.dic**

You have completed changing the dictionary language for Team Workplace for iSeries. The spell check dictionary will now use the language you selected.

### **Changing dictionary languages for Team Workplace using CL commands**

To change the dictionary that the spell check program uses, follow these steps:

1. From the OS/400 command line, type the following and press Enter:  
**wrklnk '/qibm/proddata/lotus/quickplace/shared/\*.dic'**
2. Page Down until you see the object link called wpdic.dic.
3. Enter option 7 next to the wpdic.dic object link to rename the object.
4. In the new object field, change the name of the object link to the following and press Enter:

**wpdic.bak**

5. Select the language file that you want to use and enter option 7 to rename the file.
6. In the new object field change the name of the object link to the following and press Enter:

**wpdic.dic**

You have completed changing the dictionary language for Team Workplace for iSeries. The spell check dictionary will now use the language you selected.

---

## Chapter 12

# Backup and Recovery of Team Workplace

You should regularly back up your Team Workplace data to prevent permanent loss. In particular, back up the Team Workplace data directory, which contains user data.

Use the backup and recovery commands and procedures for a Domino server to back up your Team Workplace data.

The book *Installing and Managing Domino for iSeries* has details and examples of Domino backup and recovery, including the data directory. See “Where to find more information” in Chapter 1 for details on obtaining this book.

The same backup and recovery information is in the Domino for iSeries Server section of the iSeries Information Center. The Information Center also contains general information about backup and recovery on your iSeries server. The Information Center is provided on CD-ROM and is also available on the iSeries documentation Web site at:

<http://www.ibm.com/eserver/iseries/infocenter>

Team Workplace also provides an archiving facility to make copies of places elsewhere in the Integrated File System. For more information on the QPTOOL archive capability, see the *Team Workplace Administrator's Guide*.

### **Team Workplace for iSeries and Backup, Recovery, and Media Services for iSeries**

Team Workplace for iSeries Release 6.5.1 supports an online backup capability with Backup, Recovery, and Media Services for iSeries. Online backup implies that Team Workplace databases on your iSeries can be saved while they are in use, with no save while active synchronization points. This support will work with a tape device, an automated tape library device, save files, and an ADSM server. Detailed procedures for Domino (and by extension, Team Workplace) are available at:

<http://www.ibm.com/eserver/iseries/service/brms/domino.htm>



---

## Chapter 13

# Before You Call Technical Support

### Determine the configuration or upgrade status

When you add Team Workplace to a Domino server, a file called QuickPlaceInstall.log in your server data directory is created or updated to indicate whether the configuration process was successful. The same file is also updated when you upgrade to a new version of Team Workplace.

You can determine the configuration or upgrade status of Team Workplace by viewing this log file. To view the file, follow these steps:

1. Open iSeries Navigator.
2. Open your iSeries server where you added Team Workplace.
3. Click **File Systems**.
4. Click **Integrated File System**.
5. Click **Root**.
6. Click *servername*.  
where *servername* is the name of your Team Workplace server.
7. Click **data**.

**Note** The actual path of your server's data directory may be different. Substitute values appropriate for your environment to find your server's data directory.

8. Right-click **quickplaceinstall.log** and select **Edit**.

The text file will launch in a new window, and provide information on configuration and upgrade status.



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