
Module 13: Upgrading From Live Communications Server 2003 to Live Communications Server 2005 SP1

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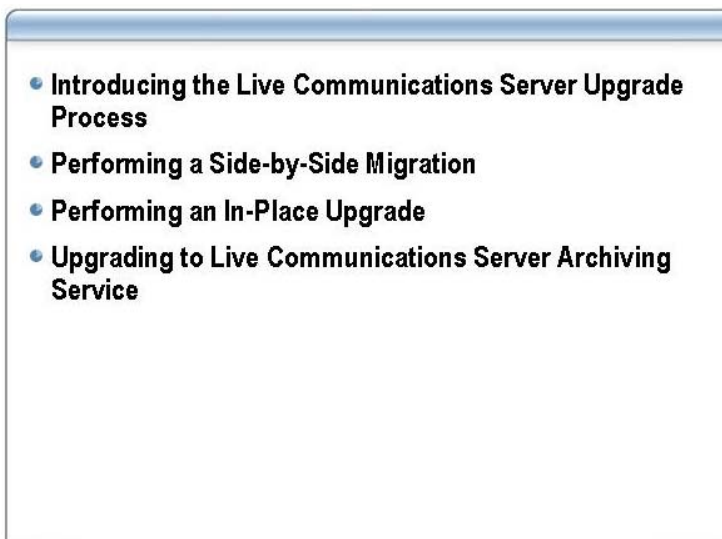
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Overview



Introduction

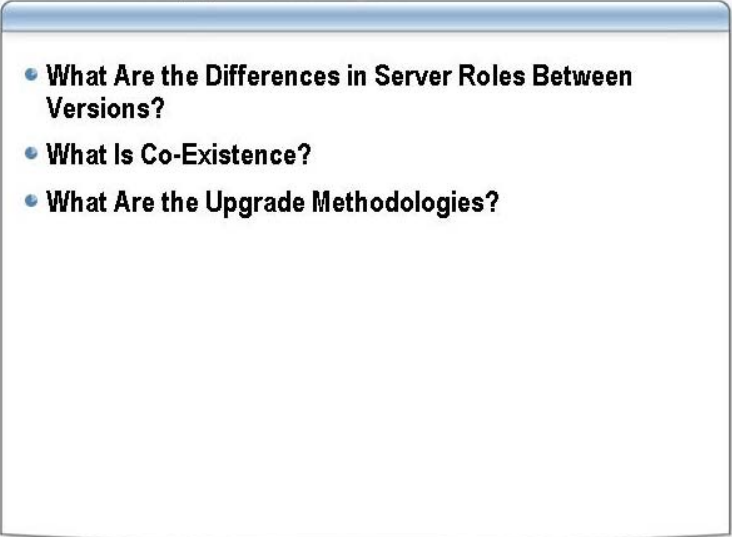
This module guides you through the process of upgrading from Microsoft® Live Communications Server 2003 to Microsoft Live Communications Server 2005 with SP1 (LCS 2005 with SP1).

Objectives

After completing this module, you will be able to:

- Describe the Live Communications Server upgrade process.
- Perform a side-by-side migration.
- Perform an in-place upgrade.
- Upgrade to the Live Communications Server 2005 Archiving service.

Lesson: Introducing the Live Communications Server Upgrade Process

- 
- **What Are the Differences in Server Roles Between Versions?**
 - **What Is Co-Existence?**
 - **What Are the Upgrade Methodologies?**

Introduction

Network managers need to understand the benefits and challenges of upgrading to LCS 2005 with SP1, and the upgrade methodologies and co-existence options. This information will enable network managers to review their existing LCS 2003 environments, and create a plan to migrate successfully to LCS 2005 with SP1.

Lesson objectives

After completing this lesson, you will be able to:

- Compare server roles between LCS 2003 and LCS 2005.
- Describe co-existence.
- Describe the upgrade methodologies.

What Are the Differences in Server Roles Between Versions?

LCS 2005 with SP1	LCS 2003
LCS 2005 Standard Edition	Home Server
LCS 2005 Director	Front-end Server
LCS 2005 Proxy	Proxy
LCS 2005 Access Proxy	No equivalent role
LCS 2005 Enterprise Edition	No equivalent role
LCS 2005 Archiving Service	Archiving Server

Introduction

Like LCS 2003, the LCS 2005 with SP1 architecture consists of multiple server roles, each role fulfilling a different function. However, in LCS 2005 with SP1, the server role names and their functions are different. There are also new roles that do not have an equivalent in LCS 2003.

Live Communications Server 2003 Server Roles

The following table compares the server roles between Live Communications Server 2003 and Live Communications Server 2005. For more information about the server roles in LCS 2005 SP1, see Course 7034A Module 1, *Introducing Live Communications Server 2005 SP1 Concepts*.

Live Communications Server 2005 with SP1 Live Communications Server 2003

Live Communications Server 2005 Standard Edition	Home Server
Live Communications Server 2005, Director	Front-End Server
Live Communications Server 2005, Proxy	Proxy
Live Communications Server 2005, Access Proxy	No equivalent role
Live Communications Server 2005 Enterprise Edition	No equivalent role
Live Communications Server 2005, Archiving service	Archiving Server

What Is Co-Existence?



Introduction

Live Communications Server evolved from the Exchange Instant Messenger (IM) service in Microsoft Exchange 2000 Server. In Exchange Server 2003, the IM service became a separate product called Live Communications Server 2003. Live Communications Server 2005 superseded LCS 2003, and now LCS 2005 has been updated with the recent addition of Service Pack 1.

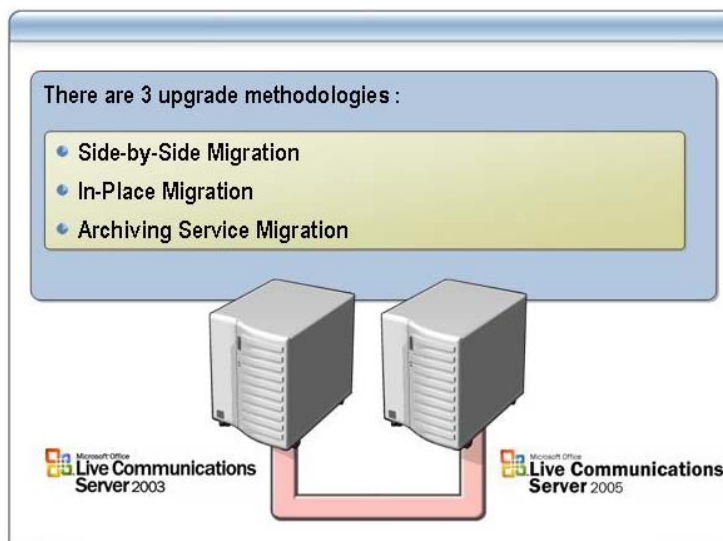
LCS 2005 with SP1 is designed to support the coexistence of Live Communications Server 2005 Enterprise pools and Standard Edition Servers with Live Communications Server 2003 Home Servers. Active Directory® directory service preparation for Live Communications Server 2005 provides backward compatibility with Live Communications Server 2003 and reuses most of the same groups and access control entries (ACEs).

Co-Existence Considerations

If your deployment plan for Live Communications Server 2005 involves a period of co-existence, be aware of the following:

- A Live Communications Server 2003 front-end server can redirect incoming client requests to a Live Communications Server 2005 Standard Edition Server or Enterprise pool.
- A Live Communications Server 2003 front-end server cannot be used to transmit requests between an Access Proxy and Live Communications Server 2005 Standard Edition or Enterprise pool.
- Live Communications Server 2003 does not support Federation and remote user access, so if you need to implement these features then you will need to deploy LCS 2005 with SP1. Placing LCS 2005 with SP1 Access Proxy and Director server roles in front of Live Communications Server 2003 Home Servers is also not supported.

What Are the Upgrade Methodologies?



Introduction

When you upgrade Live Communications Server 2003 to LCS 2005 with SP1, you must select the appropriate methodology. You can upgrade Live Communications Server 2003 in one of three ways.

Home Server Upgrade

You can upgrade a Live Communications Server 2003 Home Server to LCS 2005 with SP1 by using the following methodologies:

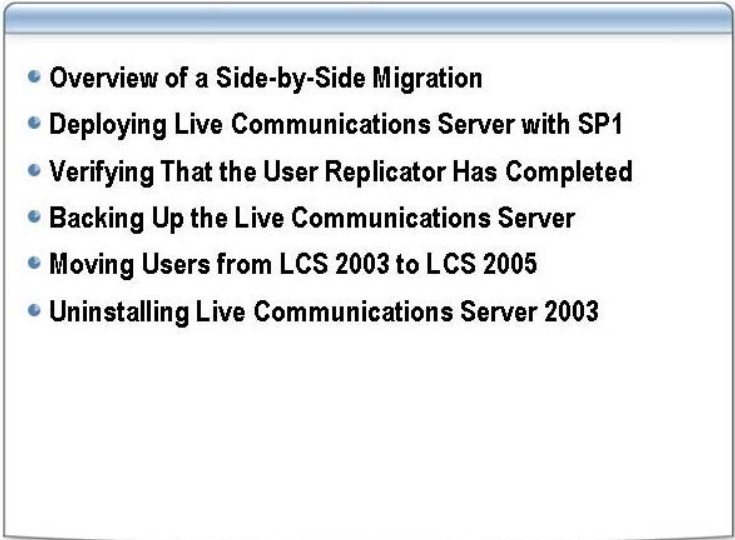
- **Side-by-side migration**, referred to as co-existence, which involves:
 - a. Deploying a LCS 2005 with SP1 Standard Edition or Enterprise pool alongside the Live Communications Server 2003.
 - b. Performing a move-users procedure.
 - c. Uninstalling Live Communications Server 2003.
- This option provides the benefit of co-existence and minimal service disruption.
- **In-place upgrade**, which involves:
 - a. Exporting the existing Live Communications Server 2003 user data.
 - b. Uninstalling Live Communications Server 2003.
 - c. Deploying LCS 2005 with SP1 Standard Edition or Enterprise Edition.
 - d. Importing the user data.
- **Archiving service upgrade**, which involves using the Rtclogdbimpexp.exe tool to migrate from Live Communications Server 2003 to Live Communications Server 2005.

Note The Rtclogdbimpexp.exe tool is available in the Support folder on the Live Communications Server 2005 CD and supports both side-by-side and in-place upgrade methodologies. For detailed information about how to use this tool, see Rtclogdbimpexp-readme.htm in the same folder as Rtclogdbimpexp.exe.

Rollback

LCS 2005 with SP1 provides a method to revert or roll back users from Live Communications Server 2005 to Live Communications Server 2003 without the loss of user data.

Lesson: Performing a Side-by-Side Migration

- 
- **Overview of a Side-by-Side Migration**
 - **Deploying Live Communications Server with SP1**
 - **Verifying That the User Replicator Has Completed**
 - **Backing Up the Live Communications Server**
 - **Moving Users from LCS 2003 to LCS 2005**
 - **Uninstalling Live Communications Server 2003**

Introduction

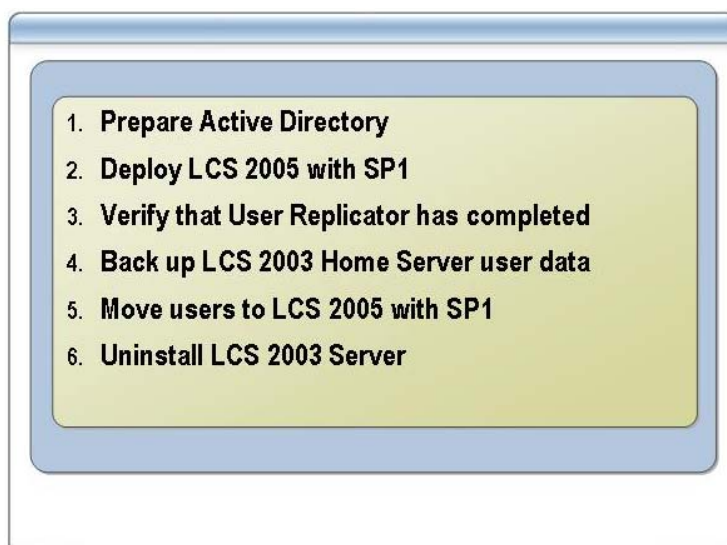
This Lesson guides you through the process of performing a side-by-side migration to Live Communications Server 2005 with SP1. A side-by-side migration is commonly referred to as co-existence.

Lesson objectives

After completing this lesson, you will be able to:

- Describe a side-by-side migration.
- Describe how to deploy Live Communications Server 2005 with SP1 as part of a migration.
- Verify that the User Replicator completes.
- Back up Live Communications Server.
- Move users from Live Communications Server 2003 to Live Communications Server 2005.
- Uninstall Live Communications Server 2003.

Overview of a Side-by-Side Migration



Introduction

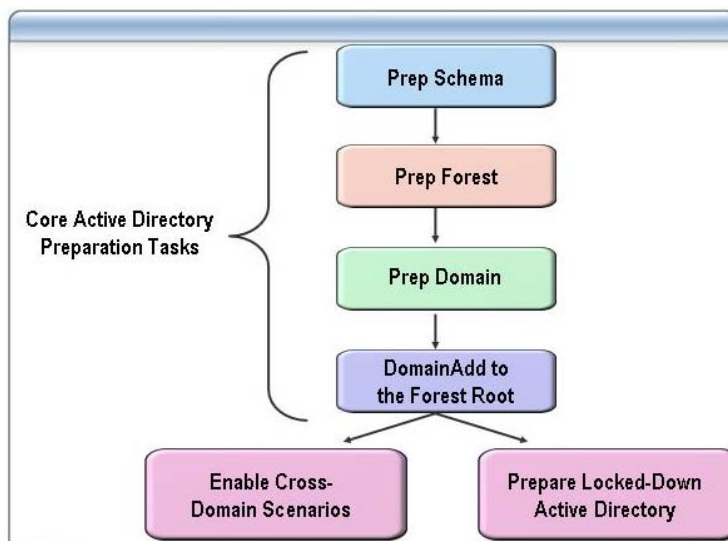
A side-by-side migration involves deploying a Live Communications Server 2005 Standard Edition or Enterprise pool on new hardware while the Live Communications Server 2003 is still operational, moving users to the new server or pool, and then uninstalling Live Communications Server 2003. This approach significantly reduces the risk of losing information from the upgrade process, and is the preferred method if you are deploying LCS 2005 with SP1 onto new hardware.

Performing a Side-by-Side Migration

The following table summarizes the procedures for side-by-side migration.

Procedure	Administrative Credentials Required
Prepare Active Directory for Live Communications Server 2005.	Refer to Module 2 or 3.
Deploy Live Communications Server 2005.	Refer to Module 2 or 3.
Verify that the User Replicator has completed.	Local administrator credentials for a Standard Edition Server. System administrator credentials on the Live Communications Server 2005 Back-End Database for an Enterprise Edition deployment.
Back up the existing Live Communications Server 2003 Home Server user data.	Local administrator credentials on the Live Communications Server 2003 Home Server.
Move the users to the Live Communications Server 2005.	RTCDomainServerAdmins or RTCDomainUserAdmins.
Uninstall Live Communications Server 2003.	Domain Admins; also RTCDomainServerAdmins is required if the Live Communications 2003 Home Server is in a domain other than the forest root.

Preparing Active Directory



Introduction

As part of the Live Communications Server migration, you must first prepare Active Directory. This preparation can include modifying the following elements of Active Directory:

- Schema
- Forest
- Domain

It may also be necessary to add an LCS domain to the Forest root.

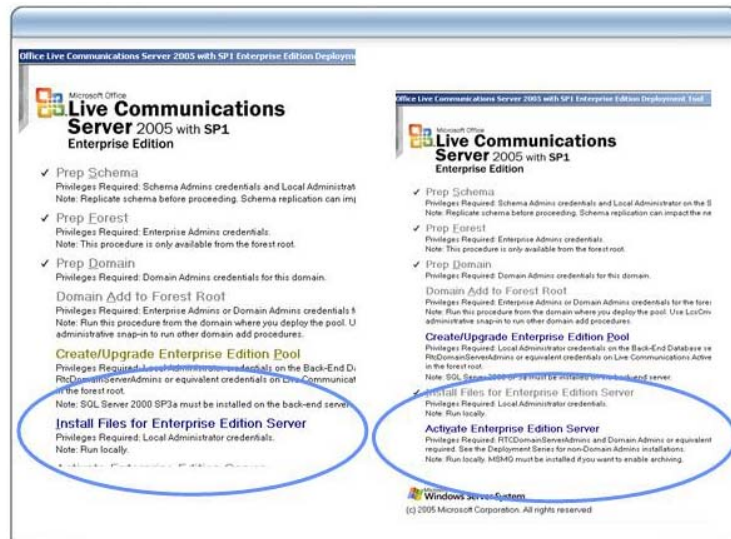
Preparing Active Directory

Live Communications Server 2005 Active Directory preparation extends the Active Directory schema and creates the necessary objects for Live Communications Server 2005. Live Communications Server 2005 Active Directory preparation is backward compatible with Live Communications Server 2003. All existing Live Communications Server 2003 objects, containers, and groups are preserved.

Checking Group Memberships

Each modification requires that the account used to run LCS 2005 with SP1 setup has the appropriate rights and group memberships. For example, updating the Active Directory Schema requires membership in the Schema Admins group. For more information about preparing Active Directory, see Course 7034A, Module 2, *Deploying Live Communications Server 2005 with SP1 Enterprise Edition*.

Deploying Live Communications Server 2005 with SP1



Introduction

The second step involves deploying Live Communications Server 2005 Standard Edition or Enterprise Edition.

Deploying LCS 2005 with SP1

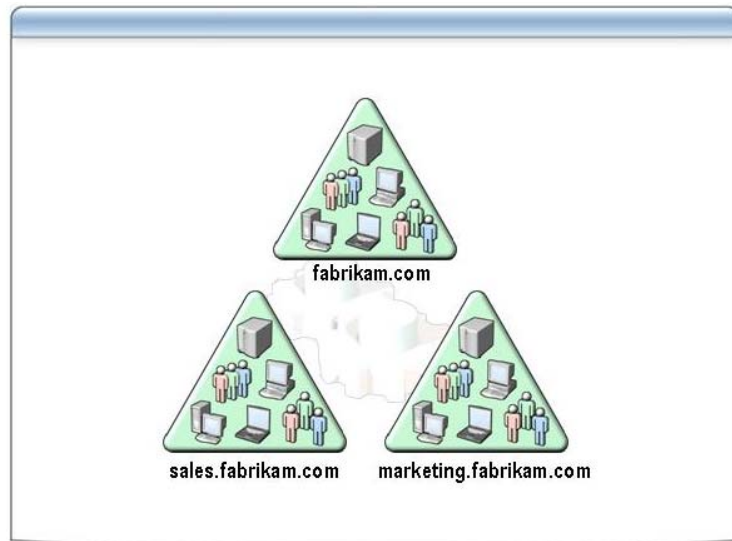
Deploying LCS 2005 with SP1 involves the following tasks:

- Deploying LCS 2005 with SP1 Standard Edition. For more information about the deployment steps, see Course 7034A, Module 3, *Deploying Live Communications Server 2005 with SP1 Standard Edition*

Or

- Deploying LCS 2005 with SP1 Enterprise Edition, which includes creating an Enterprise pool, configuring at least one LCS 2005 with SP1 Enterprise Edition, and designating a server as the back-end database. If more than one LCS 2005 with SP1 Enterprise Edition Server is deployed in a pool, you must also set up a load balancer. For more information about the deployment steps, see Course 7034A, Module 3, *Deploying Live Communications Server 2005 with SP1 Enterprise Edition*

Verifying That User Replicator Has Completed



Introduction

User Replicator replicates Active Directory User objects to the LCS database. This service runs on a LCS 2005 with SP1, Standard Edition server, or on one of the servers in an enterprise pool (usually the first one installed). Before you move your users from LCS 2003 to LCS 2005 with SP1, you must verify that User Replicator has completed the first replication cycle on LCS 2005 with SP1 for all the domains that contain users enabled for Live Communications Server 2005.

Checking LCS 2005 Standard Edition

To verify that user replication has completed on a Live Communications Server 2005 Standard Edition server, perform the following steps:

1. Open the Event Viewer. Click **Start**, point to **All Programs**, point to **Administrative Tools**, and then click **Event Viewer**.
2. Click **Application Logs**, and then click the **Source** column to sort by source.
3. Look for **Live Communications User Replicator** as the source with the event ID 30024. The event displays the following text:
 4. User Replicator has completed initial synchronization of domain <domain name> (DN: <distinguished name>) and the database. Future synchronization for this domain will occur as changes are made in Active Directory.
5. Check this event for all the domains with users enabled for Live Communications Server 2005.

Checking an Enterprise Pool

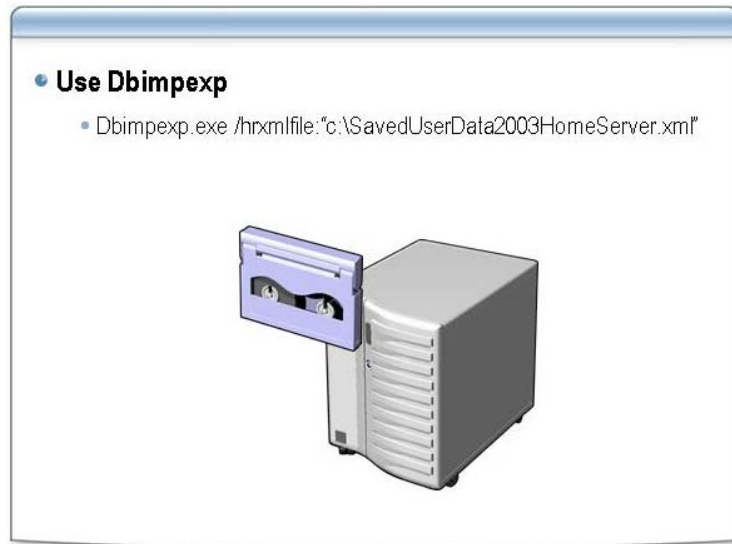
To verify that user replication has completed on a Live Communications Server 2005 Enterprise Edition, perform the following steps:

1. Run the Dbanalyze tool. (This tool is available in the Live Communications Server 2005 Resource Kit).
2. On the Live Communications Server 2005 back-end database, from a command line, type **Dbanalyze.exe /report:diag /poolfqdn:<pool fqdn for**

the pool>. The report shows which server within the pool is assigned as the User Replicator.

3. On the server that is assigned as the User Replicator, open the Event Viewer. Click **Start**, point to **All Programs**, point to **Administrative Tools**, and then click **Event Viewer**.
4. Click **Application Logs**, and then click the **Source** column to sort by source.
5. Look for **Live Communications User Replicator** as the source with the event ID 30024. The event displays the following text:
 1. User Replicator has completed initial synchronization of domain <domain name> (DN: <distinguished name>) and the database. Future synchronization for this domain will occur as changes are made in Active Directory.
6. Check for this event on all the domains with users enabled for Live Communications Server.

Backing Up the Live Communications Server 2003 Data



Introduction

As a precaution, you should back up the existing user data on the Live Communications Server 2003 Home Server before you move the users to LCS 2005 with SP1. If a problem occurs with a Live Communications Server 2005 deployment, you can restore your user data on Live Communications Server 2003.

Using Dbimpexp to Back Up Data

LCS 2005 provides a tool called Dbimpexp.exe that you can use to back up user data on your Live Communications Server 2003 Home Server to an XML file. The tool is available in the Support folder of the Live Communications Server 2005 CD and is installed in the *<drive letter>:\Program Files\Common Files\Microsoft LC 2005\Support* folder on a server with LCS 2005 with SP1 installed.

Note On the LCS 2005 with SP1 CD, Dbimpexp.exe is in the Setup\I386 folder, not the Support folder.

To back up Live Communications Server 2003 properly, you should:

- Ensure that the home server Microsoft SQL Desktop Engine (MSDE) database is available.
- Run Dbimpexp.exe from the Home Server using the LCS 2005 with SP1 CD.

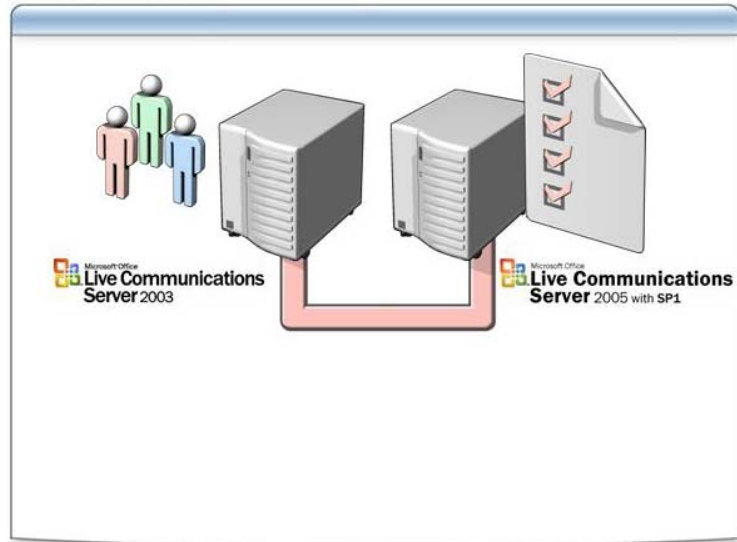
Important The LCS 2005 Dbimpexp.exe tool is required for this operation. Do not use the Live Communications Server 2003 Dbimpexp.exe tool

**Exporting user data
from your LCS 2003
Home Server**

To export user data from your Live Communications Server 2003 Home Server, perform the following steps:

1. Log on to the Live Communications Server 2003 Home Server.
2. Insert the LCS 2005 with SP1 CD.
3. Run Dbimpexp.exe from the <drive letter>:\Setup\i386 folder using the following syntax:
 1. Dbimpexp.exe /hrxmlfile:"<xml file path for the exported user data>"
 2. For example:
 3. **Dbimpexp.exe
/hrxmlfile:"c:\SavedUserData2003HomeServer.xml"**
4. Copy the saved user data XML file to a safe location.

Preparing to Move Users from LCS 2003 to LCS 2005 with SP1



Introduction

Moving users from Live Communications Server 2003 to LCS 2005 with SP1 involves moving all the user data from the LCS 2003 User Services MSDE database into the LCS 2005 with SP1 User Services database.

Requirements

To move user data, the following requirements must be met:

- This procedure must be run from the Live Communications Server 2005 administrative snap-in or Active Directory Users and Computers on Live Communications Server 2005 Standard Edition or Enterprise Edition or a computer with the Live Communications Server 2005 administration tools installed.
- The Live Communications Server service (RtcSrv) is running on both Live Communications Server 2003 and Live Communications Server 2005.

Important Moving users from Live Communications Server 2005 to Live Communications Server 2003 is not supported. If you attempt this operation, the user's data does not move.

Administrative Credentials

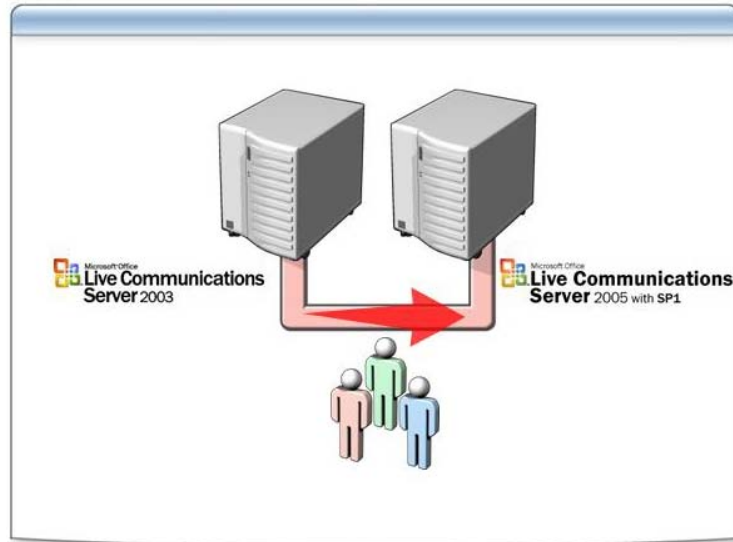
If Live Communications Server 2003 and Live Communications Server 2005 exist in the same domain, RTCDomainUserAdmins or RTCDomainServerAdmins credentials are required to move users.

If you are moving Live Communications Server 2003 users in one domain to a Live Communications Server 2005 in another domain, use the following table to determine which credentials you need.

Cross-Domain Move Users Scenario	Credentials Required	Procedure Required to Enable Credentials
Users are in multiple domains. Server or pools are in a single domain.	To access users: RTCDomainUserAdmins equivalent or RTCDomanServerAdmins equivalent credentials on Live Communications Server Active Directory user settings.	Run Domain Add in the domain where the users exist to add the domain where the administrator account exists. This procedure gives the required privileges on the user objects to members of the RTCDomainServerAdmins or RTCDomainUserAdmins in the server or pool domain.
	To access server or pools: RTCDomainUserAdmins equivalent or RTCDomanServerAdmins equivalent in the domain where server or pools are located.	Administrator account must be added to RTCDomainServerAdmins or RTCDomainUserAdmins of the domain where the server or pools are located.
Users are in multiple domains. Server or pools are also in multiple domains.	To access users: RTCDomainUserAdmins equivalent or RTCDomanServerAdmins equivalent credentials on Live Communications Server Active Directory user settings.	Run Domain Add in the domain where the users exist to add the domain where the administrator account exists. This procedure gives the RTCDomainServerAdmins or RTCDomainUserAdmins of the domain being added permissions on the users settings in the user domains
	To access server or pools: Member of RTCDomainUserAdmins or RTCDomainServerAdmins in the domain where the administrator's account exists. Member of the RTC Local Administrator group on each server if the server or pools are not in the administrator's domain.	Administrator account must be added to RTCDomainServerAdmins or RTCDomainUserAdmins. Also, add the administrator or the RTCDomainUserAdmins or RTCDomainServerAdmins group to the RTC Local Administrator group on each server or pool that is not in the administrator's domain.

Warning If your Live Communications Server 2003 exists in a different domain from your pool, you must run Prep Domain and Domain Add for this domain before you can successfully move users. After moving users, these users can no longer use Live Communications Server 2003 Home Server

Moving Users from LCS 2003 to LCS 2005 with SP1



Introduction

After you have completed the preparation process, you can now move users from LCS 2003 to LCS 2005 with SP1.

Moving Users

To move users from Live Communications Server 2003 Home Server to LCS 2005 with SP1, perform the following steps.

1. Log on to a computer that has a Live Communications Server 2005 administrative snap-in available.
2. Click **Start**, point to **Administrative Tools**, and click **Live Communications Server**.
3. In the console tree, expand the **Forest** node.
4. Expand **Live Communications Server 2003**.
5. Click **Users**.
6. Select one of the following:
 - a. To move all users, right-click **Users**, and then click **Move Users**.
 - b. To move specific users, in the details pane, hold down the **SHIFT** or **CTRL** key and right-click the selected users, and then click **Move Users**.
7. In **Server or Pool**, select a Live Communications Server 2005 Standard Edition server or Enterprise pool.
8. On the **Move Operation Status** page, verify that move succeeded.
9. Click **Export** to export and save the log.

Note If the Move Users operation appears to have failed, save and view the log file to see if some of your users were successfully moved. The move operation moves each user's Active Directory settings and user data, one by one, such that several users may have been moved successfully before a transaction failed. If the Move User operation failed, you can run the procedure again from the Live Communications Server 2005 administration console. Begin after the last user that was successfully moved.

10. If a user is having problems, perform the move user operation again after Active Directory replication has completed. Running move user twice can clean up Active Directory attributes in instances where a move was unsuccessful.
11. In case of any failures, check the Application log in the Event Viewer on the computer where the administrative console is used.
12. In the Save As dialog box, specify a filename and path for the log file, and then click **Save**.
13. Click **Finish**.

Important Before performing any operations on a user that you have moved, wait for Active Directory replication to complete across all domain controllers, or force replication manually.

Verifying the Move with Event Viewer

To verify that Move Users worked from the Event Viewer, perform the following steps:

1. Point to **Start**, point to **Programs**, point to **Administrative Tools**, and then click **Event Viewer**.
2. In the application log, look for events with the source Live Communications Server and verify that no errors occurred.

Verifying the Move in the LCS 2005 Console

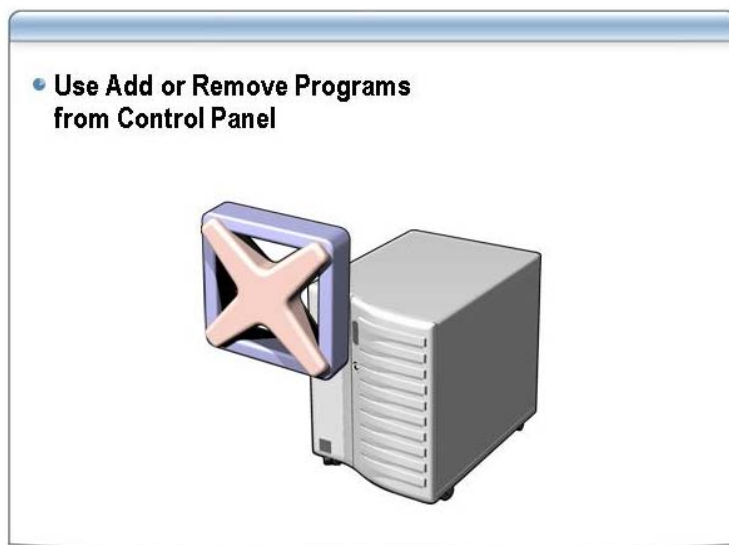
To verify that Move Users worked from the Live Communications Server 2005 Console, perform the following steps:

1. Log on to a server with the Live Communications Server 2005 administrative snap-in available.
2. Click **Start**, point to **Administrative Tools**, and click **Live Communications Server**.
3. In the console tree, expand the **Forest** node.
4. Expand subsequent nodes under the Domains node until you reach the domain where the pool or server resides.
5. Expand **Live Communications Servers and Pools**.

6. Expand the pool or server to which you moved your users.
7. Expand the server containing the users, click the **Users** container in the Live Communications Server.
8. In the console pane, verify that your users appear.

Note If the move operation succeeded, but the users do not appear, force Active Directory replication or wait for replication to complete and then refresh the data.

Uninstalling Live Communications Server 2003



Introduction

After you have successfully exported your user data from your Live Communications 2003 Home Server, you can uninstall Live Communications Server 2003.

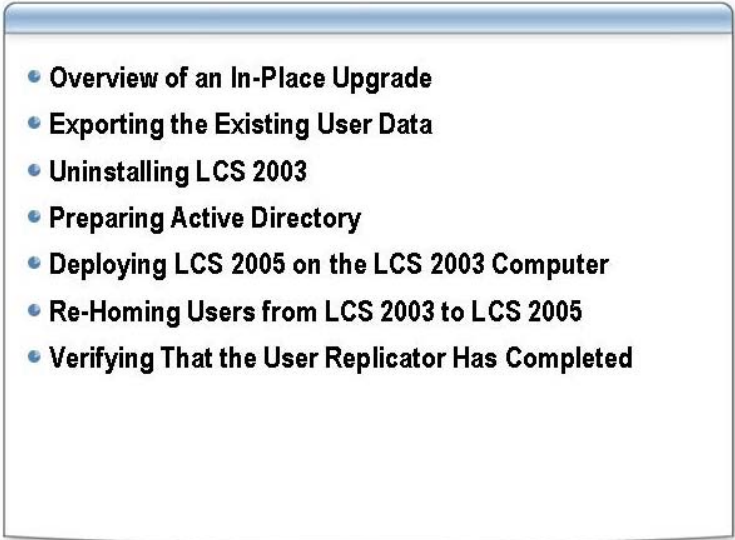
Important When you uninstall Live Communications Server 2003, do not select the option to Leave Active Directory objects. Also, you will not need to select the option to Leave the User Database, because the user data has already been exported using the Dbimpexp.exe tool

Uninstalling Live Communications Server 2003

To uninstall Live Communications Server 2003, perform the following steps:

1. Click **Start**, and then click **Control Panel**.
2. In Control Panel, double-click **Add or Remove Programs**.
3. In **Add or Remove Programs**, double-click **Change or Remove Programs**.
4. Click **Microsoft Office Live Communications Server 2003** and click **Change**.
5. On the **Welcome** page of the wizard, click **Next**.
6. On the **Options** page, verify that the **Leave Active Directory objects** option is not selected.
7. Click **Remove**.

Lesson: Performing an In-Place Upgrade

- 
- Overview of an In-Place Upgrade
 - Exporting the Existing User Data
 - Uninstalling LCS 2003
 - Preparing Active Directory
 - Deploying LCS 2005 on the LCS 2003 Computer
 - Re-Homing Users from LCS 2003 to LCS 2005
 - Verifying That the User Replicator Has Completed

Introduction

This Lesson guides you through the process of performing an in-place upgrade from Live Communications Server 2003 to LCS 2005 with SP1.

Lesson objectives

After completing this lesson, you will be able to:

- Describe the in-place upgrade process.
- Describe how to export the existing user data.
- Uninstall Live Communications Server 2003.
- Prepare Active Directory.
- Deploy LCS 2005 on a computer running LCS 2003.
- Re-home users from LCS 2003 to LCS 2005.
- Verify that the User Replicator has completed.

Overview of an In-Place Upgrade



Introduction

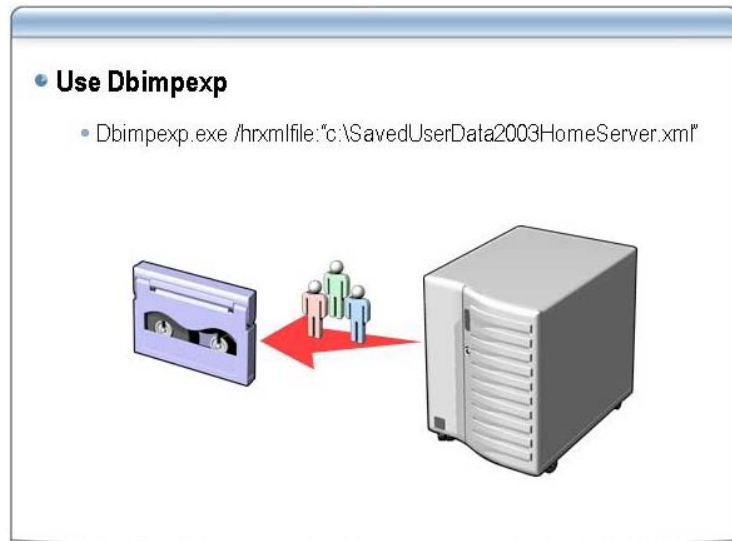
An in-place upgrade has the benefit of protecting hardware investments, especially if you want to upgrade a single server from Live Communications Server 2003 to Live Communications Server 2005 with SP1, Standard Edition. Consider side-by-side migration if you want to minimize service downtime and you have suitable replacement hardware.

Procedures

The following table provides an overview of the procedures required for an in-place migration. Each procedure is explained in more detail in the following sections.

Procedure	Administrative Credentials Required
Export user data from existing Live Communications Server 2003 Home Server.	Local administrator on the home server.
Uninstall Live Communications Server 2003.	Domain Admins; also RTCDomainServerAdmins is required if the Live Communications 2003 Home Server is in a domain other than the forest root.
Prepare Active Directory for Live Communications Server 2005.	Refer to the <i>Live Communications Server 2005 Active Directory Preparation Guide</i> .
Deploy Live Communications Server 2005.	Refer to the <i>Live Communications Server 2005 Standard Edition Deployment Guide</i> .
Re-home users from the Live Communications Server 2003 Home Server to Live Communications Server 2005.	RTCDomainUserAdmins or RTCDomainServerAdmins credentials.
Verify that the User Replicator has completed.	Local administrator credentials.
Import the existing user data to the Live Communications Server 2005	Local administrator credentials on a Standard Edition Server.

Exporting the Existing User Data



Introduction

The first step in an in-place upgrade is to export existing user data from your current Live Communications Server 2003 Home Server. After you uninstall Live Communications Server 2003 Home Server and deploy Live Communications Server 2005, you can then import this user data into the Live Communications Server 2005 User Services Database.

Pre-requisites for Exporting the Existing User Data from LCS 2003

To export the existing user data from LCS 2003, ensure that:

- The Home Server MSDE is available.
- You run the Dbimpexp.exe tool from the Home Server using a LCS 2005 with SP1 CD.

Note The new Live Communications Server 2005 Dbimpexp.exe tool is required for this operation. Do not use the Live Communications Server 2003 version of the tool.

To export user data from your Live Communications Server 2003 Home Server

To export user data from your Live Communications Server 2003 Home Server, perform the following steps:

1. Log on to a Live Communications Server 2003 Home Server.
2. Insert the LCS 2005 with SP1 CD.
3. Run Dbimpexp.exe from the <drive letter>:\Setup\i386 folder using the following syntax:

Dbimpexp.exe /hrxmlfile:"<xml file path for the exported user data>"

For example:

Dbimpexp.exe /hrxmlfile:"c:\SavedUserData2003HomeServer.xml"

Note On the LCS 2005 CD, the Dbimpexp.exe tool is in the Support folder.

Uninstalling LCS 2003



Introduction

After you have successfully exported your user data from your Live Communications 2003 Home Server, you can uninstall Live Communications Server 2003.

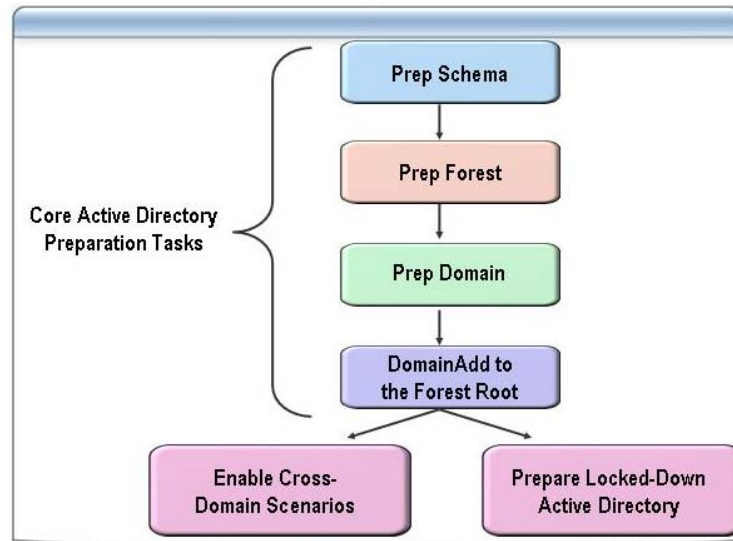
Important When you uninstall Live Communications Server 2003, do not select the option to Leave Active Directory objects. Also, you will not need to select the option to Leave the User Database, because the user data has already been exported using the Dbimexp.exe tool

Uninstalling Live Communications Server 2003

To uninstall Live Communications Server 2003, perform the following steps:

1. Click **Start**, and then click **Control Panel**.
2. In Control Panel, double-click **Add or Remove Programs**.
3. In **Add or Remove Programs**, double-click **Change or Remove Programs**.
4. Click **Microsoft Office Live Communications Server 2003**, and click **Change**.
5. On the **Welcome** page of the wizard, click **Next**.
6. On the **Options** page, verify that the **Leave Active Directory objects** option is not selected.
7. Click **Remove**.

Preparing Active Directory



Introduction

As with the side-by-side migration, you must first prepare Active Directory before you install LCS 2005 with 2005. This preparation covers the same areas of Schema, Forest and Domain.

Preparing Active Directory

Live Communications Server 2005 Active Directory preparation extends the Active Directory schema and creates the necessary objects for Live Communications Server 2005. Live Communications Server 2005 Active Directory preparation is backward compatible with Live Communications Server 2003. All existing Live Communications Server 2003 objects, containers, and groups are preserved.

For more information about preparing Active Directory, see Course 7034A, Module 2, *Deploying Live Communications Server 2005 with SP1 Enterprise Edition*.

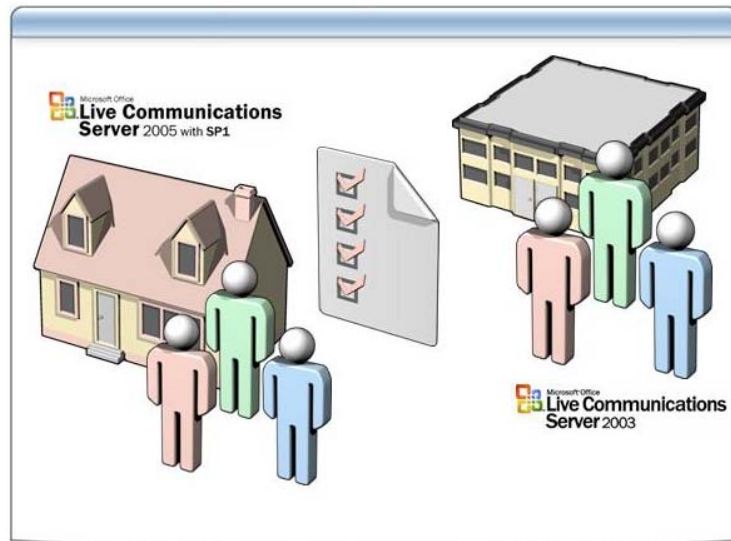
Deploying LCS 2005 on the LCS 2003 Computer



The next step is to deploy LCS 2005 on the computer from which you removed LCS 2003. These steps are covered in full earlier in this course.

For more information about deploying LCS 2005, see Course 7034A, Module 2 *Deploying Live Communications Server 2005 with SP1 Enterprise Edition*, or Module 3 *Deploying Live Communications Server 2005 with SP1 Standard Edition*.

Preparing to Re-Home Users



Introduction

To reassign users to Live Communications Server 2005, move these users from Live Communications Server 2003 to Live Communications Server 2005 Standard Edition on the same computer. When you move these users, their Live Communications Server settings are updated in Active Directory.

For an in-place upgrade, the Move Users procedure is required only to re-home the users and not to move the actual user data between Live Communications Servers. The user data is directly exported and imported with the Dbimpxp.exe tool. Because Live Communications Server 2003 has already been uninstalled and is unavailable, the Move Users procedure detects this, bypasses the moving of users' data, and only updates and re-homes the Active Directory settings for the users.

Move User Procedure

To re-home users using the Move Users procedure, you must run this procedure from the Active Directory Users and Computers snap-in on a server with either the Live Communications Server 2005 administration tools or Live Communications Server 2005 installed.

In the Active Directory Users and Computers snap-in, you select all the users who were homed on your Live Communications Server 2003 and then re-home them through the Move Users procedure.

Note You cannot run this from the Live Communications Server 2005 administrative console because the Live Communications Server 2003 Home Server is already uninstalled. Also, after uninstalling Live Communications Server 2003, your users may not appear in the orphaned users container of the Live Communications Server 2005 administrative snap-in.

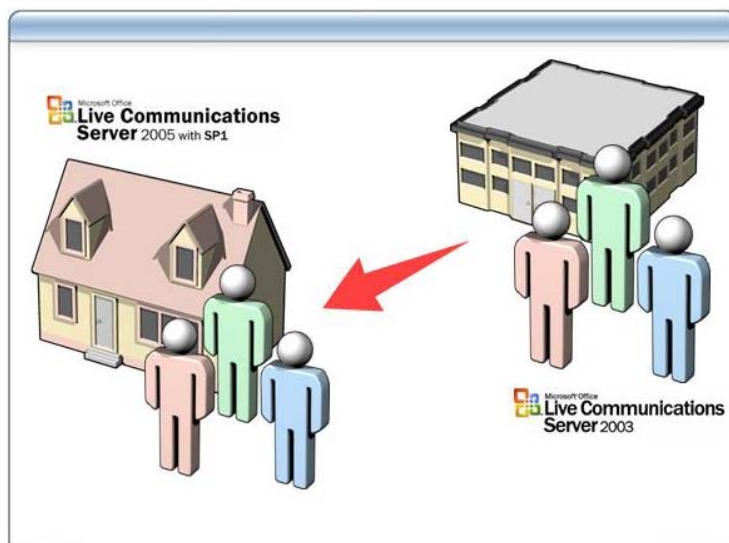
Permissions Required to Move Users

The permissions required to move users vary depending on whether you are moving users within a single domain or from one domain to another.

- **Administrative Credentials Required in a Single Domain.** In a single domain environment in which the user accounts, the Live Communications Server 2003 Home Server, and the Live Communications Server 2005 Standard Edition or Enterprise pool are all in the same domain the RTCDomainUserAdmins or RTCDomainServerAdmins in that domain are required to run the move users procedure.
- **Administrative Credentials Required to Move Users in a Cross-Domain Scenario.** In an in-place upgrade, if the users you want to move exist in more than one domain, you need credentials in more than one domain, and additional procedures may be required to grant these credentials, as described in the following table.

Credentials Required	Procedure Required to Enable Permissions
To access users: RTCDomainUserAdmins equivalent or RTCDomanServerAdmins equivalent credentials on Live Communications Active Directory user settings.	Run Domain Add in the domain where the users are located to add the domain where the administrator is located. This gives the RTCDomainServerAdmins or RTCDomainUserAdmins of the domain being added permissions on the user settings in the user domains.
To access servers and pools: You must be a member of RTCDomainUserAdmins or RTCDomainServerAdmins in the domain where server and pools are located. (The assumption is that the administrator exists in this domain.)	Admin must be added to RTCDomainServerAdmins or RTCDomainUserAdmins of the domain where the server or pools are located.

Re-Homing Users from LCS 2003 to LCS 2005



Introduction

After completing the preparation process, you can re-home your LCS 2003 onto a LCS 2005 with SP1 server.

Re-Homing Users

To re-home users from Live Communications Server 2003 Home Server to Live Communications Server 2005 Standard Edition, use the following steps:

1. Log on to a computer that has a Live Communications Server 2005 administrative snap-in available.
2. Click **Start**, point to **Administrative Tools**, and click **Active Directory Users and Computers**.
3. In the console tree, select the user containers that were homed on Live Communications Server 2003.
4. To move specific users, in the details pane, hold down the SHIFT or CTRL key and right-click the selected users, and then click **Move users**. To move all users from the container, right-click the container, and then click **Move users**.
5. On the **Welcome to the Move Users Wizard** page, click **Next**.
6. On the **Select a Pool** page, select the newly deployed Live Communications Server 2005 Standard Edition from the list, and then click **Next**.
7. On the **Move Operation Status** page, verify that the move succeeded.
8. Click **Export** to export and save the log.

Note If the Move Users operation appears to have failed, save and view the log file to see if some of your users were successfully moved. The move operation moves each user's Active Directory settings and user data, one by one, such that several users may have been moved successfully before a transaction failed. If the Move Users operation failed, you can run the procedure again from the Live Communications Server 2005 administration console. Begin after the last user that was successfully moved.

- a. If a user is having problems, perform the move user operation again, after Active Directory replication has completed. Running move user twice can clean up Active Directory attributes in instances where a move was unsuccessful.
 - b. In case of any failures, check the application event logs on the computer where the administrative console is used.
9. In the **Save As** dialog box, specify a filename and path for the log file, and then click **Save**.
 10. Click **Finish**.

Important Before performing any operations on a user that you have moved, wait for Active Directory replication to complete across all domain controllers, or force replication manually.

Verifying Move in Event Viewer

To verify that Move Users worked from the Event Viewer, perform the following steps:

1. To open the Event Viewer, point to **Start**, point to **Programs**, point to **Administrative Tools**, and then click **Event Viewer**.
2. In the application log, look for Live Communications Server events and verify that no errors occurred.

Verifying Move in LCS 2005 Console

To verify that Move Users worked from the Live Communications Server 2005 Console, perform the following steps:

1. Log on to a server with the Live Communications Server 2005 administrative snap-in available: Click **Start**, point to **Administrative Tools**, and click **Live Communications Server**.
2. In the console tree, expand the **Forest** node.
3. Expand subsequent nodes under the Domains node until you reach the domain where the pool or server resides.
4. Expand **Live Communications Servers and Pools**.
5. Expand the pool or server to which you moved your users.
6. Expand the server containing the users, and then click the **Users** container in the Live Communications Server.
7. In the console pane, verify that your users appear.

Note If the move operation succeeded, but the users do not appear, force Active Directory replication or wait for replication to complete and then refresh the data.

Verifying That the User Replicator Has Completed



Introduction

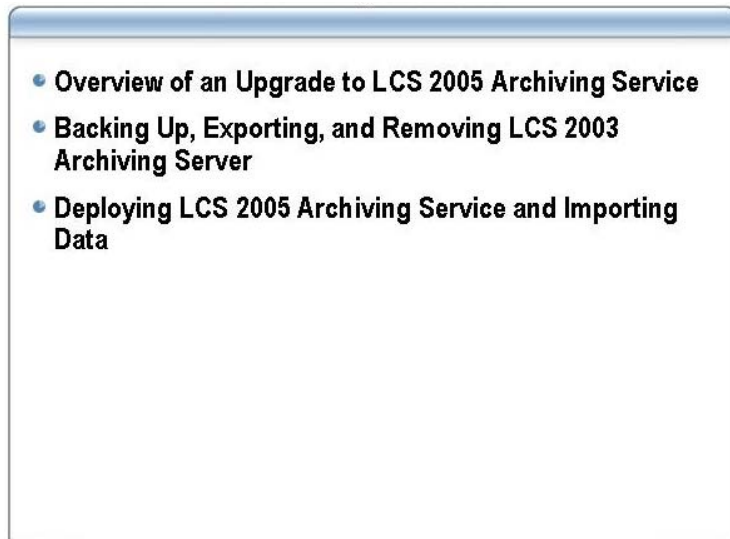
Before you import user data from Live Communications Server 2003, verify that the User Replicator, which replicates Active Directory User objects to the database, has completed the first replication cycle on Live Communications Server 2005 for all the domains with users enabled for Live Communications Server 2005.

Verifying that User Replicator has completed on LCS 2005

To verify that User Replicator has completed on Live Communications Server 2005, perform the following steps:

1. To open the Event Viewer, click **Start**, point to **All Programs**, point to **Administrative Tools**, and then click **Event Viewer**.
2. Click **Application Logs**, and click the **Source** column to sort by source.
3. Look for **Live Communications User Replicator** as the source and event ID 30024. The event displays the following text:
 1. User Replicator has completed initial synchronization of domain <domain name> (DN: <distinguished name>) and the database. Future synchronization for this domain will occur as changes are made in Active Directory.
4. Check this event for all the domains with users enabled for Live Communications Server.

Lesson: Upgrading to Live Communications Server 2005 Archiving Service



Upgrading from Live Communications Server 2003 Archiving server to the LCS 2005 with SP1 Archiving service is supported with the Rtclogdbimpexp.exe tool, which can be used for both side-by-side or in-place upgrades.

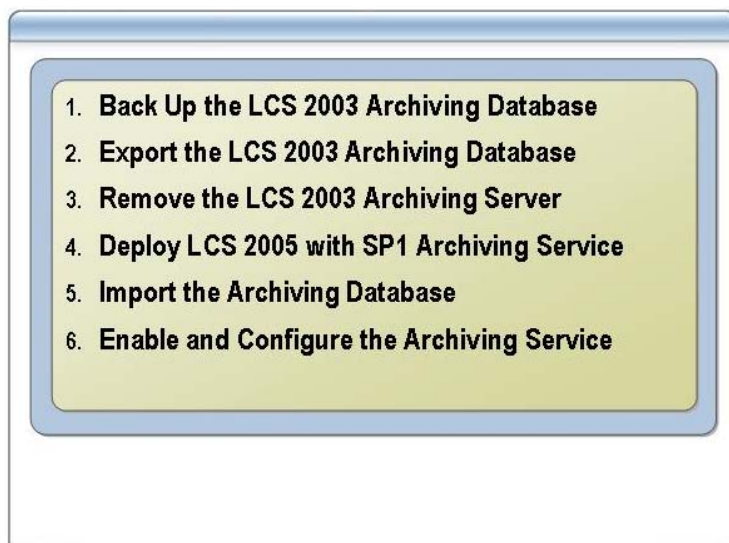
This tool is located in <drive letter>:\Program Files\Common Files\Microsoft LC 2005\IM Archiving Service\Support folder on the Live Communications Server 2005 Archiving service Server or in the Support folder on the LCS Server 2005 with SP1 CD.

Lesson objectives

After completing this lesson, you will be able to:

- Describe the process for upgrading to LCS Archiving service.
- Describe how to back up, export, and then remove the LCS 2003 Archiving Server.
- Describe how to deploy the LCS 2005 Archiving service and then import the data.

Overview of an Upgrade to LCS 2005 Archiving Service



Introduction

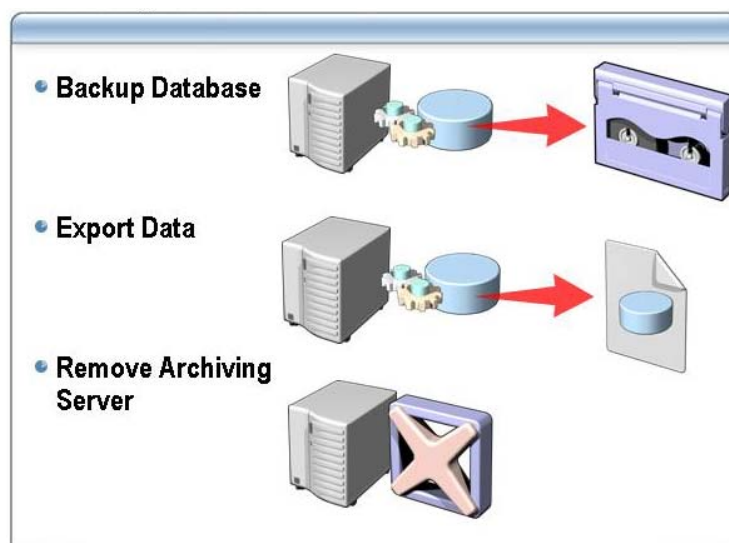
This section details the procedures for an in-place upgrade. If you prefer to perform a side-by-side upgrade, do not uninstall the Live Communications Server 2003 Archiving server until after the Live Communications Server 2005 Archiving service is fully operational. The in-place upgrade path has the benefit of protecting hardware inventory, while the side-by-side upgrade path offers the benefit of lower service downtime and better co-existence support.

Procedures

The following table provides an overview of the steps required for in-place upgrade for the Live Communications Server 2003 Archiving server to the Live Communications Server 2005 Archiving service. Each step is explained in greater detail in this lesson.

Procedure	Action
Back up the existing Live Communications Server 2003 Archiving server database.	As a precaution, back up the existing Archiving Server database before removing the Archiving service.
Export the existing Live Communications Server 2003 Archiving server database.	Export the existing Live Communications Server 2003 Archiving database using the Rtclogdbimpexp tool.
Remove the Live Communications Server 2003 Archiving server.	Uninstall and deactivate the Live Communications Server 2003 Archiving server.
Deploy the Live Communications Server 2005 Archiving service on the same computer.	Deploy the Live Communications Server 2005 Archiving Service on the same computer.
Import the Live Communications Server 2003 archiving data into the Live Communications Server 2005 Archiving service database.	Import the Live Communications Server 2003 archiving data into the new Live Communications Server 2005 archiving database.
Enable archiving on Live Communications Server 2005 pool and servers and configure global and user archiving settings.	After deploying the Live Communications Server 2005 Archiving service and importing the Live Communications Server 2003 archives, you are ready to complete the enabling of archiving for Live Communications Server 2005.

Backing Up, Exporting, and Removing LCS 2003 Archiving Server



Introduction

Backing up, exporting, and removing the Live Communications Server 2003 Archiving Server is the first step towards migrating to Live Communications Server 2005 Archiving service.

Backing Up the Archiving Server Database

You should back up the existing Live Communications Server 2003 archiving database before removing the Live Communications Server 2003 Archiving server. Use the Microsoft SQL Server™ backup facilities for this procedure.

Exporting the Archiving Server Database

Before you upgrade your Live Communications Server 2003 Archiving server, use the `Rtclodbimpexp.exe` tool to export your archiving data from your current server. After you have removed the Live Communications Server 2003 Archiving server, import this data into the Live Communications Server 2005 Archiving service.

This procedure requires that the Live Communications Server 2003 archiving database must also be available.

1. Log on to the Archiving service computer with local administrator credentials.
2. Copy the `Rtclodbimpexp.exe` tool onto the local computer. It is available on the Live Communications Server 2005 CD in the support folder.
3. Run `Rtclodbimpexp.exe` with the following syntax:

`Rtclodbimpexp.exe /xmlfile:<xml file path for the exported 2003 archives> /dbname:<name of the 2003 database to connect to which is RTCLog by default>`

For example:

`Rtclodbimpexp.exe /xmlfile:c:\Saved2003Archives.xml /dbname:RTCLog`

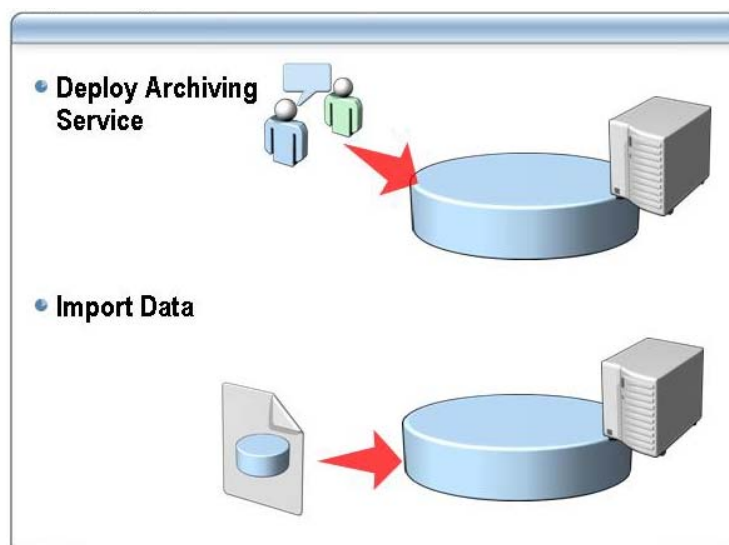
Note Rtclogdbimpexp.exe tool also supports a variety of optional parameters for additional capabilities. The **/sqlserver** parameter enables the tool to connect remotely to the SQL Server instance using Windows® Authentication. The **/messagetableid** parameter allows you to specify which of the two Live Communications Server 2003 archiving tables to export. By default, Rtclogdbimpexp.exe will export from the table indicated by the **currentmessagetable** value

Removing LCS 2003 Archiving Server

The Live Communications Server 2003 Archiving server should be removed from **Add or Remove Programs** in Control Panel. To remove it, perform the following steps:

1. To open Control Panel, click **Start**, and then click **Control Panel**.
2. In Control Panel, double-click **Add or Remove Programs**.
3. In **Add or Remove Programs**, double-click **Change or Remove Programs**.
4. Click **Microsoft Office Live Communications Server 2003**, and then click **Change**.
5. On the **Welcome** page of the wizard, click **Next**.
6. Click **Remove**.

Deploying LCS 2005 Archiving Service and Importing Data



Introduction

After removing the Live Communications Server 2003 Archiving server, you are ready to deploy the Live Communications Server 2005 Archiving service on the same computer.

Deploying the LCS 2005 Archiving Service

See Course 7034A, Module 12 *Archiving Messages with Live Communications Server 2005 SP1* for the exact steps and detailed information about deploying the Live Communications Server 2005 Archiving Service.

Deploying the Live Communications Server 2005 Archiving service involves doing the following:

- Installing the files for the Archiving service from Setup.exe.
- Activating the Archiving service from Setup.exe.

Importing Archiving Data

After deploying the Live Communications Server 2005 Archiving service, import the Live Communications Server 2003 archiving data into the Live Communications Server 2005 Archiving service database.

This procedure requires:

- Local Administrator credentials on the computer with the Live Communications Server 2005 Archiving service database.
- Availability of the Live Communications Server 2005 Archiving database.

If your Live Communications Server 2005 Archiving service is on a two-tier topology with the database on the second computer, log on to this second computer. To import the archiving data, perform the following steps:

1. Log on to a computer that has the Archiving service database.
2. Copy the Rtclogdbimpexp.exe tool onto the local computer. It is located in the support folder of the Live Communications Server 2005 CD.
3. Run Rtclogdbimpexp.exe with the following syntax:

Rtclogdbimpexp.exe /import /xmlfile:<xml file path for the exported 2003 archives> /dbname:<name of the 2005 archiving database to connect to>

For example:

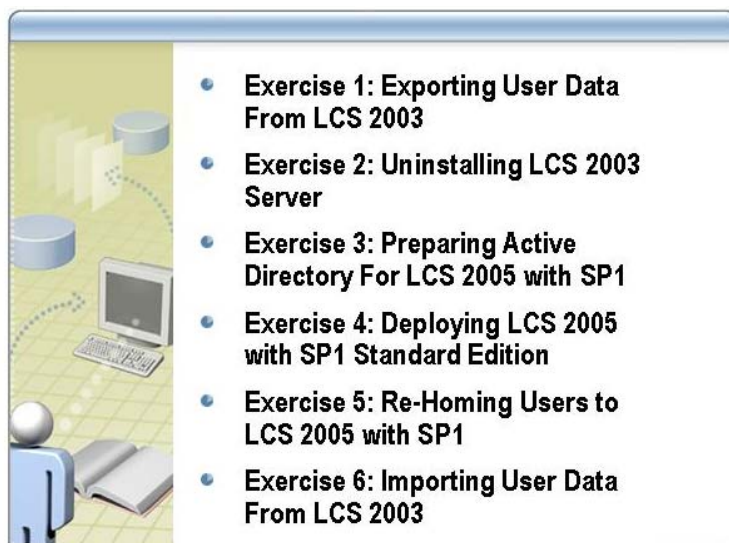
**Rtclogdbimpexp.exe /import /xmlfile:c:\Saved2003Archives.xml
/dbname:LCSLog**

Enabling Archiving and Configuring Settings

After deploying the Live Communications Server 2005 Archiving service and importing the Live Communications Server 2003 archives, you are ready to complete the enabling of archiving for Live Communications Server 2005. See Course 7034A, Module 12 *Archiving Messages with Live Communications Server 2005 SP1* for more information about the required procedures to:

- Enable archiving on Live Communications Server 2005 pool and servers.
- Configure global and user archiving settings to enable different archiving scenarios.

Lab 13: Upgrading LCS 2003 to LCS 2005 with SP1



Objectives

After completing this lab, you will be able to:

- Export user data from LCS 2003.
- Uninstall LCS 2003.
- Prepare Active Directory for LCS 2005 with SP1.
- Deploy LCS 2005 with SP1 Standard Edition.
- Re-home users.
- Import user data to LCS 2005 with SP1.

Estimated time to complete this lab: **45 minutes**



Important: At the end of this lab, close down the VPC image and delete changes.

Introduction

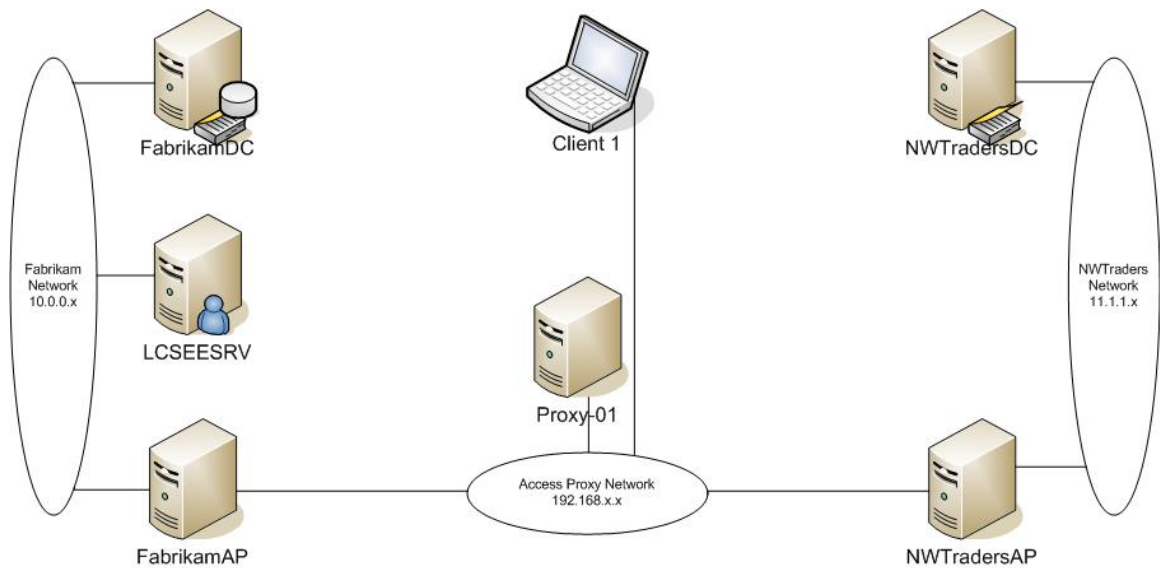
In this lab you will perform an in-place upgrade from Office Live Communications Server 2003 to Office Live Communications Server 2005 with SP1.



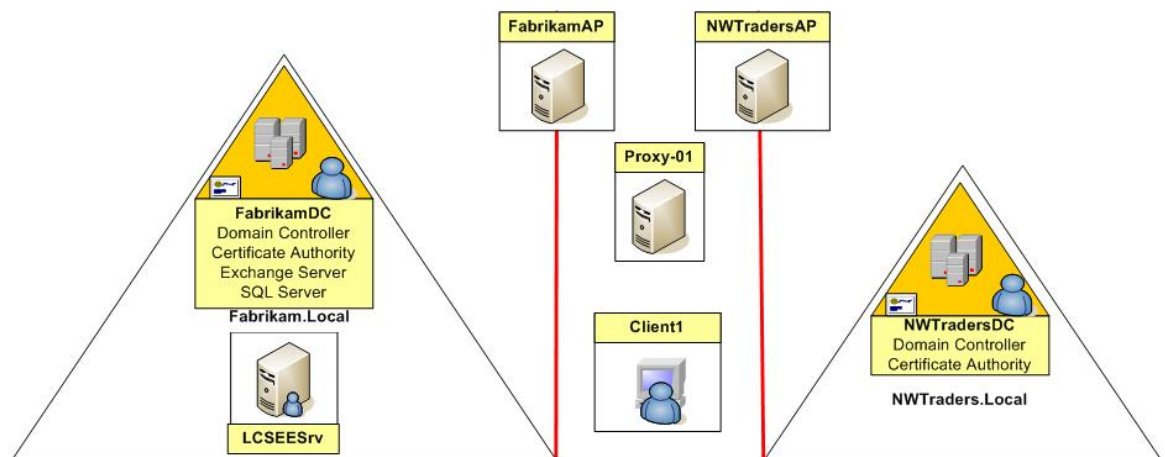
Note: This lab does not fit into the NWTraders scenario from previous labs.

Network Topology

The labs in this course use virtual machines. In order to configure the virtual machines to be usable in a lab environment, the network topology has been substantially modified from a typical network configuration. The lab configuration combines many server roles in non-standard ways that are not recommended and are generally not viable in a production network. The network topology used in these labs is shown in the following figure.



Physical Network Topology



Virtual PC Image to Computer NetBIOS Name Mappings

The following table shows the mapping between the VPC images and the computer NetBIOS names for this lab. Please ensure you use the correct VPC image from the VPC console to start the lab.

VPC Configuration Name	Computer NetBIOS Name
7034A-NWTradersDC-C	NWTradersDC



Important: You should start this virtual PC image prior to commencing the lab exercises.

A Service Control Manager message box may appear, with the following message: At least one service or driver failed during system startup. Use Event Viewer to examine the event log for details. If this message appears, click OK, and continue. The message refers to the Kerberos Key Distribution Center service. However, this service starts properly.

At the end of the lab, ensure that you shut down the VPC image without saving changes.

Exercise 1


Exporting User Data From LCS 2003

Scenario

Upgrading LCS 2003 to LCS 2005 with SP1 requires that you export the user data from LCS 2003. You will import the data to LCS 2005 with SP1 after you have deployment.

Description

In this exercise, you will configure users to use LCS 2003 and then export the data.

Tasks	Detailed Steps
 Important: Perform this exercise on the 7034A-NWTradersDC-C virtual machine.	
1. Configure NWTraders users to use LCS 2003.	<ol style="list-style-type: none"> Log on to 7034A-NWTradersDC-C as Administrator with a password of pass@word1. Click Start, point to Administrative Tools, and then click Active Directory Users and Computers. Expand NWTraders.local, and then click Users. Right-click Adam Barr, and then click Properties. Click the Live Communications tab. Select the Enable Live Communications for this user check box, in the SIP URI box, type sip:adam@nwtraders.local. In the Home server drop-down list, click NWTradersDC.NWTraders.local as the home server. In the Adam Barr Properties dialog box, click OK. Repeat steps d to h for the following users: <ul style="list-style-type: none"> Brian Cox (sip:brian@nwtraders.local) Holly Holt (sip:holly@nwtraders.local) Max Stevens (sip:max@nwtraders.local) Peter Sloth (sip:peter@nwtraders.local) Close Active Directory Users and Computers. Click Start, point to Administrative Tools, and then click Live Communications Server. Expand Servers. Expand nwtradersdc.nwtraders.local. Click Users, and then ensure that there are five enabled users. Close the Live Communications Server console.
2. Export the LCS 2003 users data.	<ol style="list-style-type: none"> Click Start, and then click Run. In the Open box, type cmd, and then click OK. At the command prompt, type E: and then press ENTER.

	<ul style="list-style-type: none">d. At the command prompt, type CD \Demo Files\LCS2005SP1\SE\Setup\I386, and then press ENTER.e. At the command prompt, type COPY DBimpexp.exe C:\ to copy the DBimpexp.exe utility to the root of the C: drive, and then press ENTER.f. At the command prompt, type C: and press ENTER.g. At the command prompt, type CD\, and press ENTER to move to the root of the C:\ drive.h. At the command prompt, type Dbimpexp.exe /hrxmlfile:"c:\SavedUserData2003HomeServer.xml", and then press ENTER.i. A message appears, indicating that 5 resources have been exported from the database, and that the operation completed successfully.j. At the command prompt, type exit, and then press ENTER to close the command prompt.
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Exercise 2


Uninstalling LCS 2003 Server

Scenario

Now that you have exported the LCS 2003 users data, you must uninstall LCS 2003.

Description

In this exercise, you will uninstall LCS 2003 Standard Edition from the NWTradersDC machine in the NWTraders domain.

Tasks	Detailed Steps
 Important: Perform this exercise on the NWTradersDC-DC virtual machine.	
1. Uninstall LCS 2003 Standard Edition from NWTradersDC.	<ol style="list-style-type: none">Click Start, point to Control Panel, and then click Add or Remove Programs.Click Microsoft Office Live Communications Server 2003, and click Change.On the Welcome page of the wizard, click Next.On the Program Maintenance page, click Remove, and then click Next.On the Remove the Program page, clear the Keep the Active Directory objects in domain controller and the Keep the Home Server database check boxes, and then click Remove.On the Setup Wizard Completed page, click Finish.Close Add or Remove Programs.

Exercise 3



Preparing Active Directory for LCS 2005 with SP1




Scenario

LCS 2005 with SP1 requires a healthy network that includes an Active Directory domain in order to function. To deploy LCS 2005 with SP1, you must first properly prepare the network.

Description

In this exercise, you will prepare the Active Directory schema, prepare the forest, and prepare the domain.

Tasks	Detailed Steps
 Important: Perform this exercise on the 7034A-NWTradersDC-C virtual machine.	
3. Prepare the Active Directory Schema for LCS 2005 with SP1.	<ol style="list-style-type: none"> Click Start, and then click My Computer. Navigate to E:\Demo Files\LCS2005SP1\SE\Setup\I386, and then double-click Setup.exe. Click Standard Edition Server. Click Prep Schema. On the Welcome page, click Next. On the Specify Directory Location of Schema Files page, click Next. On the Ready to Prepare Active Directory Schema page, click Next. Click View Log. In the Information Bar message box, click Do not show this message again, and then click OK. Click the information bar at the top of the page, and click Allow Blocked Content. In the Security Warning dialog box, click Yes. Click Execute Action to expand it. Click Schema Prep to expand it. <p> Notice the detailed schema information in the <i>Action Information</i> column, and the <i>Success</i> status in the <i>Execution Result</i> column.</p> <ol style="list-style-type: none"> Close Internet Explorer®. Click Finish.
4. Prepare the Active Directory forest for LCS 2005 with SP1.	<ol style="list-style-type: none"> Click Prep Forest. On the Welcome page, click Next. On the Ready to Run Forest Preparation page, click Next. When the wizard has completed, click View Log. Click the information bar at the top of the page, and click Allow Blocked Content.

	<ul style="list-style-type: none"> f. In the Security Warning dialog box, click Yes. g. Click Execute Action to expand it. h. Click Forest Prep to expand it. <p> <i>Notice all the different actions that have been performed in the Action column and the Success status in the Execution Result column.</i></p> <ul style="list-style-type: none"> i. Close Internet Explorer. j. Click Finish.
<p>5. Prepare the Active Directory domain for LCS 2005 with SP1.</p>	<ul style="list-style-type: none"> a. Click Prep Domain. b. On the Welcome page, click Next. c. On the Ready to Run Domain Preparation page, click Next. <p> <i>The wizard will take a few minutes to create the domain global groups required for LCS, and to assign them the necessary permissions on Active Directory objects.</i></p> <ul style="list-style-type: none"> d. Click View Log. e. Click the information bar at the top of the page, and click Allow Blocked Content. f. In the Security Warning dialog box, click Yes. g. Click Execute Action to expand it. h. Click Domain Prep to expand it. <p> <i>Notice the different actions in the Action column, and the Success status in the Execution Result column.</i></p> <ul style="list-style-type: none"> i. Close Internet Explorer. j. Click Finish. k. Leave the Microsoft Office Live Communications Server 2005 with SP1 Standard Edition Deployment Tool open

Exercise 4



Deploying LCS 2005 with SP1 Standard Edition

Scenario

Now that you have prepared Active Directory for LCS 2005, you can install LCS 2005 with SP1 Standard Edition on the server.

Description

In this exercise, you will install and activate LCS 2005 with SP1 Standard Edition on the NWTradersDC machine in the NWTraders domain.

Tasks	Detailed Steps
 Important: Perform this exercise on the 7034A-NWTradersDC-C virtual machine.	
<ol style="list-style-type: none"> 1. Install and Activate LCS 2005 with SP1 Standard Edition on NWTradersDC using the command line. 	<ol style="list-style-type: none"> a. In the Microsoft Office Live Communications Server 2005 with SP1 Standard Edition Deployment Tool, click Install Files for Standard Edition Server. b. On the Welcome page, click Next. c. On the License Agreement page, click I accept the terms in the license agreement, and then click Next. d. On the Customer Information page, click Next. e. On the Choose Destinations Locations page, accept the defaults, and click Next. f. On the Ready to Install the Program page, click Install.  <i>This step will take several minutes to complete. The actual time it takes will vary depending on your hardware specification.</i> g. On the Setup Wizard Completed page, click Finish. h. In the Server Activation message box, click Yes to begin activation. i. On the Welcome to the Activate Standard Edition Server Wizard page, click Next. j. On the Select Service Account page, click Use An Existing Account, type RTCservice as the Account Name, type pass@word1 as the Password, and then click Next. k. On the Option to Enable IM Archiving page, click Next. l. On the Start Service Option page, ensure the Start the service after activation check box is selected, and then click Next. m. On the Ready to Activate Standard Edition Server page, click Next. n. On the Activate Standard Edition Server Wizard has completed page, click Finish.

	<ul style="list-style-type: none">o. Click Close, and then click Exit.p. Close Internet Explorer.
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Exercise 5


Re-Homing Users To LCS 2005 With SP1

Scenario

Now that you have installed and activated LCS 2005 with SP1, you will re-home the users.

Description

In this exercise, you will re-home the users.

Tasks	Detailed Steps
 Important: Perform this exercise on the 7034A-NWTradersDC-C virtual machine.	
1. Re-home the users.	<ol style="list-style-type: none">Click Start, point to Administrative Tools, and click Active Directory Users and Computers.In the console tree, click Users.Hold down CTRL, click Adam Barr, Brian Cox, Holly Holt, Max Stevens, and Peter Sloth.Continue to hold CTRL, right-click the selected users, and then click Move Live Communications Users.On the Welcome to the Move Users Wizard page, click Next.On the Select a Live Communications Server or Pool page, click NWTradersDC.NWTraders.local, and then click Next.On the Select Move Option page, click Force user move.On the Caution message box, click Yes, and then click Next.In the Information message box, click OK.On the Move Operation Status page, verify that the move succeeded, and then click Finish.Close Active Directory Users and Computers.

Exercise 6

Importing User Data From LCS 2003

Scenario

Now that you have re-homed the users, you must import the user data.

Description

In this exercise, you will import the user data to LCS 2005 SP1 that you exported from LCS 2003.

Tasks	Detailed Steps
1. Import the LCS 2003 user data.	<ol style="list-style-type: none"> Click Start and then click Run. In the Open box, type cmd, and then click OK. At the command prompt, type cd\, and then press ENTER to go to the root of the C:\ drive. At the command prompt, type Dbimpexp.exe /hrxmlfile:"c:\SavedUserData2003HomeServer.xml", and then press ENTER. At the command prompt, type exit, and then press ENTER to close the command prompt. Click Start, point to Administrative Tools, and then click Live Communications Server 2005. Expand Forest – NWTraders.local. Expand Domains. Expand NWTraders.local. Expand Live Communications servers and pools. Expand nwtradersdc. Click Users and then ensure that there are five enabled users. Close the Live Communication Server 2005 console.
2. Close down the Virtual PC.	<ol style="list-style-type: none"> In the virtual PC window for 7034A-NWTradersDC-C, click the Action menu, and then click Close. In the Close dialog box, select Turn off and delete changes, then click OK.

Review

- 
- **Introducing the Live Communications Server Upgrade Process**
 - **Performing a Side-by-Side Migration**
 - **Performing an In-Place Upgrade**
 - **Upgrading to Live Communications Server Archiving Service**

In this module, you learned about migrating from Live Communications Server 2003 to LCS 2005 with SP1. The migration options include:

- Side-by-side migration, referred to as coexistence.
- In-place upgrade.
- Archiving service upgrade.

In the next Module, you will look at troubleshooting LCS 2005 with SP1.