Release 9.1
Upgrading CE 8 to Blackboard Learn
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Introduction

About This Document

This document provides administrators with the information that they need to successfully upgrade from Blackboard Learning System – CE 8 Basic, Standard, or Enterprise Edition to Blackboard Learn™ Release 9.1 Basic or Enterprise Edition.

This document assumes that you are moving content into a clean installation of Blackboard Learn that contains very little or no data. Moving content into an existing Blackboard Learn server is a more involved process. For more information and available options, contact your Blackboard Client Manager.

The use of the word “course” in this document refers to individual courses within Blackboard Learn. The equivalent term used in CE 8 is “section.”

The instructions in this document provide commands for both Windows® and UNIX® operating systems.

About Upgrading

Blackboard Learn is the culmination of a development effort to merge all of the Blackboard legacy products into a single product. Moving from CE 8 to Blackboard Learn is a complex process. This document, along with others, provides information about the upgrade process and detailed procedures for performing the upgrade itself.

Required Access and Skills

The person performing the upgrade needs to have the following:

- System administrator access (shell or desktop) to all of the servers
- Knowledge of navigating at the command line in Windows® or UNIX® systems, depending on your platform
- Knowledge of SQL Server®, Oracle®, and UNIX text editors, depending on your platform

Blackboard Learn Upgrade Kits

To assist in the upgrade process, Blackboard has produced an Upgrade Kit comprised of documentation resources specific to your upgrade path. For a detailed list and explanation of each document, see the ReadMe.txt file included in the CE 8 to Blackboard Learn 9.1 Upgrade Kit available on Behind the Blackboard.

Blackboard Learn Documentation

A full suite of documentation for each release of Blackboard Learn is available on Behind the Blackboard.

Blackboard Learn Technical Details

The full technical details for Blackboard Learn Release 9.1, including the Release Notes, Supported Technologies and Browsers, the Resolved Issues from previous releases, and Known Issues in the current release, are available on the Maintenance Center.
Upgrading from CE 8 to Blackboard Learn 9.1

Before You Begin

Things to Consider

The following are things to consider before starting the upgrade process:

- Invest in a test server or consider moving to Blackboard Managed Hosting. Upgrading to Blackboard Learn is a complex process and should be approached as such. Blackboard strongly encourages all clients to have at least one test system.
  
  **Note**  Basic Edition clients will need to purchase a test license or upgrade to an Enterprise Edition license.

- Consider whether to implement Blackboard Learn in a virtualized environment. For more information, see *Virtualizing the Blackboard Reference Architecture* available on Behind the Blackboard.

- Passwords will not be imported into Blackboard Learn. System Administrators must reset the user passwords before the users will be able to log in to Blackboard Learn.

- Customized PowerLinks will not be moved to Blackboard Learn. For more information, see the Proxy Tools documentation available on www.edugarage.com.

Things to Do

The following are tasks that you must complete before starting the upgrade process:

- Install the most recent CE 8 Service Pack.
  
  **Note**  Blackboard recommends that MS SQL clients use CE 8.0.4.

- Back up all data and store copies of the backup files on a local machine or drive.

- Confirm that Blackboard supports your server and database configuration. This information is available in the Release Notes for Blackboard Learn 9.1 and on the Release 9.1 Supported Technologies page of the Maintenance Center.

- To reduce the amount of time it takes to complete the upgrade, clean up old sections on the CE 8 server.

- *Enterprise Edition clients only:* Create a unique Data Source Key to identify the data imported from CE 8. For more information, see Appendix A: Data Source Keys.
Understanding the Process

Significant planning and preparation is necessary to upgrade all sections to Blackboard Learn courses successfully. The steps involved depend on licensing, hardware, existing Blackboard systems, and institutional policies and procedures.

Users and sections are moved from CE 8 to Blackboard Learn using various export and import operations. Upgrading from CE 8 to Blackboard Learn involves the following steps:

1. **Install Blackboard Learn** on separate hardware.
2. **Export all data** from CE 8. This data will be used throughout the upgrade process.
3. **Import the user data** into Blackboard Learn.
4. **Export the section content packages** from CE 8.
5. **Import the desired sections** into Blackboard Learn as courses.
6. **Import the enrollments** into Blackboard Learn. If you have an SIS integration with Blackboard Learn or plan to manage enrollments manually, you can skip this step.

During the upgrade process, you have a variety of choices that depend on your institution’s needs. It is important to decide when and what data you plan to move.

After all sections have been moved and are active in Blackboard Learn, you can archive and then turn off the legacy CE 8 system. All users in the institution will log into Blackboard Learn using a new password, and the legacy system will no longer need to be used or maintained.

**Deciding When to Upgrade**

It is important to decide how Blackboard Learn will be introduced to faculty and students. Blackboard recommends moving courses between terms to minimize disruptions.

If your institution hosts active sections 365 days per year, you will need to run both the Blackboard Learn system and the legacy CE 8 system in production mode while you complete your upgrade. Blackboard recommends that you move all of your data to the Blackboard Learn system and then set the courses that are still being hosted in the production CE 8 system as Inactive in Blackboard Learn until the sections on CE 8 have ended. When the section ends, you can activate the course in Blackboard Learn.

**Deciding Which Sections to Move**

All of the CE 8 sections can be exported and moved to Blackboard Learn as courses, but you may not want to export older versions of the same section or other groups of sections.

The backup_request.xml file, described in **Step 4: Export Section Content Packages from CE 8**, can be edited to specify which sections to export.

Depending on your institution’s needs, some faculty will want to upgrade their CE 8 section to Blackboard Learn while other faculty will want to build new courses in Blackboard Learn. If you do not want to import a particular section, the content package for a section can be removed from the migrate directory before the import as described in **Step 5: Import Sections into Blackboard Learn as Courses**. As a result, the course will be created in Blackboard Learn, but the CE 8 content will not be imported.
Assigning Data Source Keys

When using Blackboard Learn Enterprise Edition, all data that is moved to the Blackboard Learn database is tagged with a data source identifier, called a data source key, so that the dataset can be managed using the snapshot/bin tool. For example, you may choose to identify all Fall 2008 records imported from CE 8 with the data source key “CE_FALL_2009” and all Spring 2010 records with the data source key “CE_SPRING_2010.”

Enterprise Edition clients should consider creating a data source key for each set of courses being moved. Blackboard recommends creating a data source key for each school term (or group of terms, if desired) and assigning that data source key to the appropriate courses during Step 5: Import Sections into Blackboard Learn as Courses.

For steps to verify or create a data source key, see Appendix A: Data Source Keys. For more information about data source keys and the snapshot/bin tool, see the Advanced Integration and Data Management Guide on Behind the Blackboard.

Resolving Data Conflicts

If your Blackboard Learn system contains any pre-existing data, Blackboard strongly recommends using a conflict resolution switch when completing Step 3: Import User Data into Blackboard Learn and Step 5: Import Sections into Blackboard Learn. Without one of these switches, data collisions may cause the import to fail. For more information, see Appendix B: LMSImport Switches.

Including Enrollments

When you move your data, you can choose whether to include all enrollments or to include only instructor enrollments as described in Step 6: Import Enrollments into Blackboard Learn. Your decision depends on whether you have built an SIS integration against Blackboard Learn.

If you have an SIS integration, you do not need to import the enrollments into Blackboard Learn. The SIS integration will handle the new enrollments for upcoming school terms.

If you do not have an SIS integration and you will be manually updating user enrollments in Blackboard Learn, it may be easier for you to include these enrollments.
Step 1: Install Blackboard Learn

Install Blackboard Learn 9.1 on hardware separate from your CE 8 installation.

For steps to install Blackboard Learn, see the Blackboard Learn Installation Guide for Release 9.1 in the Upgrade Kit or on Behind the Blackboard.
Step 2: Export All Data from CE 8

All data from the CE 8 institution must be exported so that the appropriate data can be imported into Blackboard Learn. This process is completed using the System Integration API's `siapi` command. The resulting `snapshot.xml` file will be used in each of the import steps in the upgrade process.

Complete this procedure on the first managed node using the command line on the CE 8 server.

1. Log in to the CE 8 server with system administrator privileges.
2. Create a directory for your migration data using the following command.
   UNIX:
   ```bash
   mkdir /tmp/migrateToLearn
   ``
   Windows:
   ```bash
   mkdir c:\temp\migrateToLearn
   ```
3. Navigate to the CE 8 directory using the following command.
   UNIX:
   ```bash
   cd /<BEA directory>/weblogic92/config/<CE8 directory>
   ``
   Windows:
   ```bash
   cd \<BEA directory>\weblogic92\config\<CE8 directory>
   ```
4. Run the command to retrieve the glcId that identifies the institution for which you want to export data.
   UNIX:
   ```bash
   ./siapi.sh p
   ``
   Windows:
   ```bash
   siapi.cmd p
   ```
5. Export the CE 8 data to a `snapshot.xml` file using the following command.
   UNIX:
   ```bash
   ./siapi.sh ims export snapshot /tmp/migrateToLearn/snapshot.xml --glcId=<glcId> --username=<username> --password=<password>
   ``
   Windows:
   ```bash
   siapi.cmd ims export snapshot c:\temp\migrateToLearn\snapshot.xml --glcId=<glcId> --username=<username> --password=<password>
   ```
6. Open the resulting `snapshot.xml` file using a text editor, scroll to the very bottom of the file, and ensure the last line is `</enterprise>`. If the file does not end with this line, the JVM on the machine might have run out of memory during the export. Contact Blackboard Client Support.

   **Note**  If the file is larger than 5MB, you may need to use a text editor that can handle large files, such as TextPad.
Step 3: Import User Data into Blackboard Learn

All users from the CE 8 institution must be added to the Blackboard Learn user database. This process is completed using the LMSImport command and the snapshot.xml file resulting from Step 2: Export All Data from CE 8.

Importing user data into Blackboard Learn from an existing system preserves user account data such as login ID, role, and so on, but user-related data such as passwords, quiz attempts, section membership information, group enrollment, and so on will not be included. For specific information about lost and retained data, refer to Understanding the Change from CE 8 to Blackboard Learn 9.1.

This procedure will create new users in Blackboard Learn, but it will not update any existing user information. In other words, if a user with the same user_id already exists in Blackboard Learn, the user will not be updated or merged. Depending on the switches used with the import command, Blackboard Learn can add a prefix or suffix the user_id to distinguish between the two.

Note Enterprise Edition clients only: Before you begin, make sure that you have created a data source key for the user data being imported. For more information, see Assigning Data Source Keys.

Complete this procedure using the command line of the Blackboard Learn server.

1. Log in to the Blackboard Learn server with system administrator privileges.
2. Create a directory for your migration data using the following command.
   
   UNIX: `mkdir /tmp/migrateFromCE`
   Windows: `mkdir c:\temp\migrateFromCE`

3. Copy the snapshot.xml file from the migrateToLearn directory on the CE 8 server to the migrateFromCE directory on the Blackboard Learn server.

4. Navigate to the admin directory using the following command.
   UNIX: `cd /<Learn directory>/blackboard/tools/admin`
   Windows: `cd \<Learn directory>\blackboard\tools\admin`

5. Import the user data from the snapshot.xml file using the LMSImport command and the appropriate switches. For more information about the available switches, see Appendix B: LMSImport Switches.

   Note If you are a Basic Edition client, do not include the --ds=<data source key> switch. Basic Edition licenses do not support Data Source Key functionality.

   Note Parameters shown in brackets ([ ]) are optional.

   Note Use only one --conflict resolution switch in the command.
UNIX:

```
./LMSImport.sh --file=/tmp/migrateFromCE/snapshot.xml
  --ds=<data source key> --no_courses --no_enrollments
  [--conflict_prefix <prefix>] [--conflict_suffix <suffix>]
  [--always]
```

For example:

```
./LMSImport.sh --file=/tmp/migrateFromCE/snapshot.xml
  --ds=CE_FALL_2009 --no_courses --no_enrollments
  --conflict_prefix CE_ --always
```

Windows:

```
LMSImport.cmd --file=c:\temp\migrateFromCE\snapshot.xml
  --ds=<data source key> --no_courses --no_enrollments
  [--conflict_prefix <prefix>] [--conflict_suffix <suffix>]
  [--always]
```

For example:

```
LMSImport.cmd --file=c:\temp\migrateFromCE\snapshot.xml
  --ds=CE_FALL_2009 --no_courses --no_enrollments
  --conflict_prefix CE_ --always
```

A running count of the records processed displays. The `bb-services-log-integration-jdbc.txt` log file is created and stored in the `<Learn directory>/blackboard/logs/snapshot` directory on the Blackboard Learn server for users that fail to import.
Step 4: Export Section Content Packages from CE 8

The content from the desired sections in the CE 8 institution must be exported as packages so that they can be imported into Blackboard Learn. This process is completed using the existing backup_request.xml configuration file and the backupRestoreCLI command. The resulting packages will be used in Step 5: Import Sections into Blackboard Learn as Courses.

WARNING! Exporting the content packages can be a very time-consuming process. Blackboard recommends exporting subsets of your sections or using a node outside the load-balancing pool. In addition, exporting large amounts of data can result in Out of Memory errors. If enough memory is available, these errors may be caused by the current heap size. To avoid these errors, increase the COMMAND_LINE_JVM_OPTIONS max heap size in the startup.properties file on the CE 8 server before running the export.

Complete this procedure on any managed node using the command line on the CE 8 server.

1. Log in to the CE 8 server with system administrator privileges for the institution.
2. Navigate to the CE 8 directory using the following command.
   UNIX:
   ```bash
   cd /<BEA directory>/weblogic92/config/<CE8 directory>
   ```
   Windows:
   ```bat
   cd \<BEA directory>\weblogic92\config\<CE8 directory>
   ```
3. Copy the backup_request.xml file from the <CE8 directory> on the CE 8 server to the migrateToLearn folder on the Blackboard Learn server.
4. Using a text editor, open and edit the backup_request.xml file to export the desired content packages:
   - To export the content of all sections in CE 8, edit the query_item column_name parameter as follows:
     ```xml
     <query_item column_name="Source Id" condition="notBlank" value="" operator="and"/>
     ```
   - To export only certain sections from CE 8, edit the query_item column_name using the information in the Vista 8/CE 8 Enterprise Operations Guide available on Behind the Blackboard.
5. Create the content packages specified in the backup_request.xml file using the backupRestoreCLI command.
   UNIX:
   ```bash
   ./backupRestoreCLI.sh --action=backup
   --backupdir=/tmp/migrateToLearn
   --configfile=/tmp/migrateToLearn/backup_request.xml
   --logfile=/tmp/migrateToLearn/archive.log
   --username=<username> --password=<password> --glcid=<glcId>
   ```
Windows:

```
backupRestoreCLI.cmd --action=backup
   --backupdir=c:\temp\migrateToLearn
   --configfile=c:\temp\migrateToLearn\backup_request.xml
   --logfile=c:\temp\migrateToLearn\archive.log
   --username=<username> --password=<password> --glcid=<glcId>
```

6. Copy the resulting content packages (*.bak) from the migrateToLearn directory on the CE 8 server to the migrateFromCE directory on the Blackboard Learn server.
Step 5: Import Sections into Blackboard Learn as Courses

The import sections process is completed using the LMSImport command, the snapshot.xml file resulting from Step 2: Export All Data from CE 8, and the content packages resulting from Step 4: Export Section Content Packages from CE 8.

If you do not want to import the content for a particular section, delete the content package for that section from the migrateFromCE directory before completing this procedure. The course will be created in Blackboard Learn, but the CE 8 content will not be imported.

Note  Enterprise Edition clients only: Before you begin, make sure that you have created a data source key for the sections being imported. For more information, see Assigning Data Source Keys.

Complete this procedure using the command line on the Blackboard Learn server.

1. Log in to the Blackboard Learn server with system administrator privileges.
2. Navigate to the admin directory using the following command.
   UNIX:  
   ```
   cd /<Learn directory>/blackboard/tools/admin
   ```
   Windows:  
   ```
   cd \<Learn directory>\blackboard\tools\admin
   ```
3. Import the section content from the snapshot.xml file and the content packages (*.bak) using the LMSImport command and the appropriate switches. For more information about the available switches, see Appendix B: LMSImport Switches.

   Note  If you are a Basic Edition client, do not include the --ds=<data source key> switch. Basic Edition licenses do not support Data Source Key functionality.

   Note  Parameters shown in brackets ([ ]) are optional.

   UNIX:  
   ```
   ./LMSImport.sh --file=/tmp/migrateFromCE/snapshot.xml
   --ds=<data source key> --pkg_dir=/tmp/migrateFromCE
   --no_users --no_enrollments [--conflict_prefix <prefix>]
   [--conflict_suffix <suffix>] --always
   ```
   For example:  
   ```
   ./LMSImport.sh --file=/tmp/migrateFromCE/snapshot.xml
   --ds=CE_FALL_2009 --pkg_dir=/tmp/migrateFromCE
   --no_users --no_enrollments --conflict_prefix CE_ --always
   ```
   Windows:  
   ```
   LMSImport.cmd --file=c:\temp\migrateFromCE\snapshot.xml
   --ds=<data source name> --pkg_dir=c:\temp\migrateFromCE
   --no_users --no_enrollments [--conflict_prefix <prefix>]
   [--conflict_suffix <suffix>] --always
   ```
For example:

```
LMSImport.cmd --file=c:\temp\migrateFromCE\snapshot.xml
--ds=CE_FALL_2009 --pkg_dir=c:\temp\migrateFromCE
--no_users --no_enrollments --conflict_prefix CE_ --always
```

After each package has been imported, a message displays listing the time that it took to import the package contents.

After all of the packages have been imported, a message displays indicating that all operations are complete and that a log file has been written to the following file:

UNIX:

```
/usr/local/blackboard/logs/content-exchange/batchcxcmd_checklog.txt
```

Windows:

```
c:\blackboard\logs\content-exchange\batchcxcmd_checklog.txt
```
Step 6: Import Enrollments into Blackboard Learn

If you have an SIS integration, you do not need to import the enrollments into Blackboard Learn. The SIS integration will handle the enrollments for upcoming school terms. You can skip this step.

If you do not have an SIS integration and you will be manually updating user enrollments in Blackboard Learn, it may be easier for you to import the enrollments information. You can choose whether to include all enrollments or to include only instructor enrollments.

The import enrollments process is completed using the LMSImport command and the snapshot.xml file resulting from Step 2: Export All Data from CE 8.

Complete this procedure using the command line on the Blackboard Learn server.

1. Log in to the Blackboard Learn server with system administrator privileges.
2. Navigate to the admin directory using the following command.
   UNIX:
   ```bash
cd /<Learn directory>/blackboard/tools/admin
   ```
   Windows:
   ```cmd
cd \<Learn directory>\blackboard\tools\admin
   ```
3. Import the enrollments from the snapshot.xml file using the LMSImport command and the appropriate switches. For more information about the available switches, see Appendix B: LMSImport Switches.
   To import only instructor enrollment data, use the --instr_only switch.
   **Note** If you are a Basic Edition client, do not include the --ds=<data source key> switch. Basic Edition licenses do not support Data Source Key functionality.
   **Note** Parameters shown in brackets ([ ]) are optional.
   UNIX:
   ```bash
   ./LMSImport.sh --file=/tmp/migrateFromCE/snapshot.xml --ds=<data source key> --no_users --no_courses [--instr_only]
   ```
   For example:
   ```bash
   ./LMSImport.sh --file=/tmp/migrateFromCE/snapshot.xml --ds=CE_FALL_2009 --no_users --no_courses
   ```
   Windows:
   ```cmd
   LMSImport.cmd --file=c:\temp\migrateFromCE\snapshot.xml --ds=<data source name> --no_users --no_courses [--instr_only]
   ```
   For example:
   ```cmd
   LMSImport.cmd --file=c:\temp\migrateFromCE\snapshot.xml --ds=CE_FALL_2009 --no_users --no_courses
   ```
   After all of the enrollments have been imported, a message displays indicating that all operations are complete.
Appendix A: Data Source Keys

When using Blackboard Learn Enterprise Edition, all data that is moved to the Blackboard Learn database can be tagged with a data source identifier, called a data source key, so that the dataset can be managed using the snapshot/bin tool. For example, you may choose to identify all Fall 2009 records imported from CE 8 using the data source key “CE_FALL_2009” and all Spring 2010 records using the data source key “CE_SPRING_2010.”

This section provides the steps to check for existing data source keys and to create a new data source key. For more information, see the Advanced Integration and Data Management Guide available on Behind the Blackboard.

How to Check for Existing Data Source Keys

The Blackboard Learn system administrator can check for the existence of a data source key using the command line of the Blackboard Learn server.

1. Log in to the Blackboard Learn server with system administrator privileges.
2. Navigate to the snapshot\bin directory using the following command.
   UNIX:
   ```bash
cd /usr/local/blackboard/apps/snapshot/bin
   ```
   Windows:
   ```cmd
   cd \blackboard\apps\snapshot\bin
   ```
3. List all existing data source keys using the following command.
   UNIX:
   ```bash
   ./dsm.sh --f LIST
   ```
   Windows:
   ```cmd
   dsm.cmd -f LIST
   ```

How to Create a Data Source Key

The Blackboard Learn system administrator can create a new data source key using the command line of the Blackboard Learn server. Data source keys are created using the Data Source Management Tool.

1. Log in to the Blackboard Learn server with system administrator privileges.
2. Navigate to the snapshot\bin directory using the following command.
   UNIX:
   ```bash
   cd /usr/local/blackboard/apps/snapshot/bin
   ```
   Windows:
   ```cmd
   cd c:\blackboard\apps\snapshot\bin
   ```
3. Create the new data source key using the following command.

   **Note**  The data source key can contain only letters, numbers, and underscores. The **cannot** contain spaces.

   **UNIX:**
   ```
   ./dsm.sh -f CREATE -b <data source key> -d "<description>"
   ```

   **For example:**
   ```
   ./dsm.sh -f CREATE -b CE_FALL_2009 -d "All Fall 2009 Sections from CE migration to Learn"
   ```

   **Windows:**
   ```
   dsm.cmd -f CREATE -b <data source key> -d "<description>"
   ```

   **For example:**
   ```
   dsm.cmd -f CREATE -b CE_FALL_2009 -d "All Fall 2009 Sections from CE migration to Learn"
   ```
# Appendix B: LMSImport Switches

The following table describes the available switches for the `LMSImport` command.

<table>
<thead>
<tr>
<th>Switch</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>--file &lt;full path and name of the data file&gt;</code></td>
<td>Required in all LMSImport commands. The full path to and the name of the file (<code>snapshot.xml</code>) that contains the data exported from CE 8 in <a href="#">Step 2: Export All Data from CE 8</a>.</td>
</tr>
<tr>
<td><code>--pkg_dir &lt;full path to packages&gt;</code></td>
<td>Required in <a href="#">Step 5: Import Sections into Blackboard Learn as Courses</a>. The full path to the directory where the course content packages (<code>*.bak</code>) were saved in <a href="#">Step 4: Export Section Content Packages from CE 8</a>.</td>
</tr>
<tr>
<td><code>--ds &lt;DataSourceKey&gt;</code></td>
<td>Available only for Enterprise License clients. Required in <a href="#">Step 3: Import User Data into Blackboard Learn</a>, <a href="#">Step 5: Import Sections into Blackboard Learn as Courses</a>, and <a href="#">Step 6: Import Enrollments into Blackboard Learn</a>. The data source key to be applied to the imported data. The data source key must already exist on the system to be used in the command. For more information, see <a href="#">Appendix A: Data Source Keys</a>.</td>
</tr>
<tr>
<td><code>--no_courses</code></td>
<td>Required in <a href="#">Step 3: Import User Data into Blackboard Learn</a> and <a href="#">Step 6: Import Enrollments into Blackboard Learn</a>. Do not import the available section shells.</td>
</tr>
<tr>
<td><code>--no_enrollments</code></td>
<td>Required in <a href="#">Step 3: Import User Data into Blackboard Learn</a> and <a href="#">Step 5: Import Sections into Blackboard Learn as Courses</a>. Do not import the available user enrollment data. This switch is superseded by the <code>--no_users</code> and <code>--no_courses</code> switches.</td>
</tr>
<tr>
<td><code>--no_users</code></td>
<td>Required in <a href="#">Step 5: Import Sections into Blackboard Learn as Courses</a> and <a href="#">Step 6: Import Enrollments into Blackboard Learn</a>. Do not import the available user records.</td>
</tr>
<tr>
<td><code>--no_content</code></td>
<td>Optional. Import the section shells, but do not import the available content. This switch is superseded by the <code>--no_courses</code> switch. The <code>--pkg_dir</code> switch is not effective when used with this switch.</td>
</tr>
<tr>
<td><code>--no_xlist</code></td>
<td>Optional in <a href="#">Step 5: Import Sections into Blackboard Learn as Courses</a>. Do not import the available cross-listed data. This switch is superseded by the <code>--no_courses</code> switch. The import automatically copies parent content into the child courses. Both parent and child courses will contain only their direct enrollments.</td>
</tr>
<tr>
<td>Switch</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>--instr_only</td>
<td>Optional in Step 6: Import Enrollments into Blackboard Learn. Import only instructor enrollment data. This switch is superseded by the --no_enrollments switch.</td>
</tr>
<tr>
<td>--conflict_prefix &lt;prefix&gt;</td>
<td>Optional in all LMSImport commands. Resolve conflicting data names by attaching the included text string to the beginning of the imported data. The prefix can contain only letters, numbers, and underscores. The prefix cannot contain spaces. You can use only one conflict resolution switch in the command. If you use the --conflict_prefix switch, do not use the --conflict_suffix switch.</td>
</tr>
<tr>
<td>--conflict_suffix &lt;suffix&gt;</td>
<td>Optional in all LMSImport commands. Resolve conflicting data names by attaching the included text string to the end of the imported data. The suffix can contain only letters, numbers, and underscores. The suffix cannot contain spaces. You can use only one conflict resolution switch in the command. If you use the --conflict_suffix switch, do not use the --conflict_prefix switch.</td>
</tr>
<tr>
<td>--always</td>
<td>Optional in all LMSImport commands when using either conflict resolution switch. Always attach the conflict prefix or suffix to the imported data. This switch requires either the --conflict_prefix or --conflict_suffix switch.</td>
</tr>
</tbody>
</table>