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Overview

i>clicker integrate is a wizard that provides a seamless integration of data between your learning management system (LMS) and i>clicker/i>grader. i>clicker integrate:

- Enables students to register their i>clicker remotes directly within your LMS.
- Allows you to easily download your class roster and student registrations from your LMS.
- Allows you to easily upload your i>clicker session data into your LMS gradebook.

i>clicker integrate requires some set up and authentication work from your LMS administrator prior to your use of the application. By the time you are reading this guide, your LMS administrator has likely already:

- Added a link in your LMS that your students can use to register their i>clicker remotes.
- Provided you with a series of program files that allow you to integrate your i>clicker data with your LMS courses.

Guide Objectives

This guide will show you how to:

- Copy the required integrate files into your iclicker Win or iclicker Mac folders.
- Specify your LMS version within i>clicker so your polling data correctly uploads into your gradebook.
- Direct students to register their i>clicker remotes within your LMS.
- Download your LMS student roster and registrations into i>grader.
- Upload your i>clicker session data to your LMS gradebook.

System Requirements

Windows:

- Windows 7, Windows Vista or Windows XP operating system with Service Pack 2 or higher
- Screen resolution of 1024 x 640

Macintosh:

- Mac OS X version 10.5 or higher
- Screen resolution of 1024 x 640
Step 1: Copy Your integrate Wizard Files

You should have received the following authenticated files from your campus administrator:

**Windows:**
- CMS Integrate Wizard.exe
- CMS_Wizard.xml
- Config.xml
- CMS Integrate Wizard Libs (folder)

**Macintosh:**
- CMS Integrate Wizard
- CMS_Wizard.xml
- Config.xml

Copy these files into the Resources sub-folder of your iclicker Win or iclicker Mac folder.

**NOTE:** You may instead copy the i>clicker integrate files into the top level of your iclicker Win or iclicker Mac folder. However, this will add clutter to your main i>clicker folder.

Step 2: Configure your i>clicker Software

Before using i>clicker integrate, you must specify the LMS platform you are using on campus. You only need to do this once for each i>clicker course folder (e.g. Psychology 101, Psychology 201).

**To specify your LMS platform in i>clicker:**

1. Double-click the i>clicker icon within your i>clicker Win or i>clicker Mac folder to start the i>clicker application.

2. When you open i>clicker, you will see the Welcome Screen with no courses listed. Click the New button to add your course.

**NOTE:** If you already see your course in the course list, go to step 5.
3. A New Course window appears. Enter your Course Name, Course Number, and Section Number. This combined information will serve as the unique identifier for your course.

![i>clicker New Course window](image)

4. Click the Create button. i>clicker automatically creates a new course folder in your i>clicker Win\Classes or i>clicker Mac:Classes folder. The New Course window closes and you are returned to the Welcome Screen with your course name in the list of courses.

5. Select your course name from the course list and click Choose.

6. The i>clicker Home window appears. Select My Settings.

![My Settings button on the i>clicker Home window](image)

7. Click the CMS/Registration tab near the top of the new window.

8. Under the CMS/Registration tab in the Course management system section, select the LMS platform that you are using.
9. Web registration

   **Server URL:** SQLhttp://libweb.uoregon.edu/dc/blackboard/iclicker?c=

10. Click **Set for Course**.

11. If you have not yet used the **Import Roster** feature in i>clicker integrate, a warning message may appear indicating that you must download your course roster from your LMS. Click the **OK** button to dismiss the warning.

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**Step 3: Enable Student Registration in Blackboard**

To receive credit for their i>clicker responses, students must register their i>clicker remotes (i.e., tie their clicker ID to their student ID). Registered i>clicker remote IDs are automatically associated with student names in your Blackboard gradebook and in the i>grader application.

**To enable i>clicker remote registration in Blackboard Learn 9.1:**

1. Send e-mail to blackboard@ithelp.uoregon.edu requesting that we add a registration form to your coursesite, and specify the course number (CRN). Your coursesite will contain a form that looks like:
Once the registration link is set to be shown, students will be able to use the link to register their remotes within Blackboard.

**Other relevant facts for students about registration:**

- Even if students are using i>clicker for more than one course, they only need to register their clickers in one course and their registration data will automatically be applied to all of their other Blackboard courses using i>clicker.
- Students can share clickers with a friend/roommate as long as they are not using i>clicker in the same courses.
- Students can register more than one clicker in Blackboard. If, for example, students break a clicker, they can register additional clickers through the same tool and all of their registered clickers (and their votes) will be tied to their Blackboard ID.

**Step 4: Synchronize Your Roster**

Once your students have registered their i>clicker remotes within your LMS, you can use integrate to import your student roster (complete with registration data) into i>clicker/i>grader so polling data can be credited to your students.

**To import your LMS class roster into i>clicker/i>grader using integrate:**

1. Open your iclicker Win or iclicker Mac folder and double-click the i>grader icon to start the i>grader application.

2. Select your course name from the course list and click **Choose**.

3. If you have not yet used the Import Roster feature in i>clicker integrate, the Roster not found window appears. Click **Yes** to download your LMS course roster.

4. The i>clicker integrate window appears. Your LMS server name should pre-populate the CMS Description in this window.

5. Enter your LMS username and password or, if single sign-on is enabled, enter your LMS username and security key. Click **Log In**.
6. You will need to copy and paste your Security Key from the SSO Security Key page on your LMS. You can click the What is this? link next to the entry field for more information on where to find this key. In order to get the SSO Security Key in Blackboard go to the Control Panel > Course Tools > iclicker Instructor Tools

💡 TIP: To save time in future sessions, check both check boxes to save login credentials and automatically log in. You can always reset these later if needed, but selecting both will save you time as you use integrate going forward.

7. Once logged in, you will be prompted to select your course. Using the drop-down control, select the course or section for which you wish to import your LMS roster and click Import Roster.

8. A confirmation message will appear, indicating that the file was successfully written into your i>clicker course folder. Click the Restart i>grader button to refresh your roster in i>grader.

9. In i>grader, registered students appear in black, while unregistered students and unregistered clickers (if any) appear in red.
10. Repeat steps 1-7 for each of your courses.

To update your i>clicker with the most recent roster accounting for adds/drops:

1. Click the **Sync** button from within i>grader.
2. A dialog box will appear asking if you want to use **integrate** to synchronize your roster. Click **Yes**.
3. Repeat steps 4-7 from above to download the latest version of your roster.

To match your roster list with your student’s iclicker ID numbers after you have imported your roster, you must re-sync as if you are going to import your roster again. To do this, open igrader, choose your course and then select “Sync” again. This time, when the pop up asks you if you want to import your roster, select “No” and follow the prompts. Step by step instructions to do this with screen shots are as follows:

1. Open up your igrader software, select the course you want to open and select “Choose”: 
2. Next, select "Sync" as if you are going to import your roster again. Normally, before you do this step, your roster should have a list of red names of your students, followed by a list of red #’s associated with unmatched clickers. After doing this step, the ones who have registered should match up and the names will turn black:

3. When you get to the pop up that asks you to Confirm Roster Sync Options, this time you will select "No" because we aren’t importing the roster this time, we are just matching up the iclicker names and numbers. You should already have a list of names imported before doing this step and should already have run an iclicker session in your class before doing this step or it won’t work.
4. Finally, the following pop up will come up asking to Synchronize Web Registrations. Press Continue. This should start the process that matches up the remote ID’s with the corresponding registered students. Students who haven’t yet registered their iclicker remotes will still appear in red.
Step 5: Upload Your i>clicker Polling Data

After you’ve polled your students in class, your polling data will appear in i>grader, the i>clicker gradebook application. i>grader gives you access to all student polling information collected by i>clicker. With it, you can view students’ points, adjust scores, delete questions, synchronize late registrations (via integrate), and export/upload your polling data back into your LMS gradebook.

To upload i>clicker scores into your LMS gradebook:

1. Open your i>clicker course folder, locate and launch i>grader, and select your course.

![i>grader icon]

2. The i>grader Home window appears, and displays your student names and scores.

![i>grader Home screen]

💡 *TIP:* Make sure the correct LMS is listed next to **Output formatted for.** You can amend your LMS selection in i>clicker’s **My Settings.**

3. Click the **Export** button.

4. The **Select session to be exported** window appears. Select the session(s) you wish to export and click **Export.**

💡 *TIP:* You may re-export grades for the same session(s) into your LMS gradebook with little risk. The new scores will simply replace the older scores you imported unless you manually made changes to individual student scores within the LMS. Most manual changes you made (to individual students) within the LMS will not be changed by new data uploads from i>clicker/integrate. See the Troubleshooting section for information on how i>clicker integrate handles conflicting scores for the same session(s).

5. The **Export Complete** window appears indicating that i>grader has successfully exported your student data. Click **OK.**

6. The **Confirm Upload** window appears. Click **Yes** to upload your data to your LMS.
7. The i>clicker integrate window will open automatically. If you previously selected the auto-login option, you will be automatically connected to your LMS account. If you did not select auto-login, you will be prompted to enter your LMS credentials. Enter your LMS username and password or, if single sign-on is enabled, enter your LMS username and security key. Click Log In.

8. Once you’ve successfully logged into your LMS, you will be prompted to select your course. Select the relevant course or section from the drop-down list and click Export Scores.

9. Your i>clicker polling scores will upload directly into your LMS course. You will receive a confirmation message when the upload is complete. Click OK to dismiss this window.

   **NOTE:** The scores will be uploaded into your LMS Gradebook as numeric quiz grades in the i>clicker polling data category. You will be able to edit individual student i>clicker scores within the LMS after you’ve uploaded the data.

10. Repeat steps 1-9 for every course for which you are using i>clicker.

### Step 6: Review i>clicker Scores in Blackboard

Once you have uploaded your i>clicker polling data to your course, you can review the scores within Blackboard.

**To view uploaded i>clicker scores in your Blackboard Grade Center:**

1. Log in to Blackboard and select the course for which you wish to view your updated grades.

2. From the COURSE MANAGEMENT Control Panel, click the Grade Center option. The Control Panel will expand to reveal a list of links will under the Grade Center.
option.

3. Click the **Full Grade Center** link from the expanded list under **Grade Center**

4. The **Grade Center** page opens and will include your newly uploaded i>clicker scores. The scores will appear as numeric values and may be edited like any other score within Blackboard and will show up as a dates per session as they do iGrader at the end of your Grade Center.

**Troubleshooting**

In general, when you upload your i>clicker polling data into your LMS, the experience will be seamless and won’t require further work. Although rare, there are a few possible discrepancies or errors that could occur with this process. The following scenarios describe situations that will result in an integrate discrepancy.

**Your student is not in your LMS roster but is in your i>grader roster.**

This will be a very rare occurrence. In order for this error to occur, you would have manually added a student to your roster file in your i>clicker course folder. The best way to avoid this error is to simply rely on your LMS roster as the most up-to-date resource for your most current roster file.

**The uploaded scores (from i>clicker) are lower than those previously recorded in your LMS for a student or students.**

This does not generally require any work by you—it is simply an alert. For example, you may want to give Jane Doe a higher i>clicker score for a session on 9/12/2011 because she helped you facilitate a demonstration in class. i>grader currently does not allow you to change scores for individual students. Instead, you can make the individual change manually within your LMS. If you later re-upload (intentionally or accidentally) the 9/12/2011 i>clicker scores into your LMS and the score for Jane Doe is lower in i>grader than in your LMS, our application won’t override your manual adjustment. The report will simply let you know the discrepancy exists. If you wish to change an individual score to overwrite the LMS score (i.e., lower Jane Doe’s score again), you will need to make this change within your LMS, not i>grader. Note that while lower i>grader scores will not override adjustments you made in your LMS gradebook, higher i>grader scores will overwrite lower LMS grades without a discrepancy notice.

**You are exporting i>clicker scores for a student who has registered, voted in class, but then subsequently dropped the course (and is therefore no longer in your LMS gradebook).**

The best way to avoid this error is to rely on your LMS roster as the most up-to-date resource for your most current roster file. When you synchronize the most current version of your LMS roster with i>grader, you may be left with voting logs from a Remote ID that are not associated with a student (if that student came to class, voted, and then dropped the class). In this case, you may delete the voting logs for that Remote ID from within i>grader by clicking the Remote ID and selecting the “remove” option. Please see the i>grader documentation for additional details.