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Overview

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

- Enables students to register their \textit{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 \textit{i>clicker} session data into your LMS gradebook.

\textit{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 \textit{i>clicker} remotes.
- Provided you with a series of program files that allow you to integrate your \textit{i>clicker} data with your LMS courses.

Guide Objectives

This guide will show you how to:

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

System Requirements

\textbf{Windows}:

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

\textbf{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 *iclicker integrate* files into the top level of your *iclicker Win* or *iclicker Mac* folder. However, this will add clutter to your main *iclicker* folder.

💡 **TIP:** Your administrator may have provided you with pre-configured *iclicker Win* (Windows) or *iclicker Mac* (Macintosh) folders that already contain all of the necessary files (customized for your campus). In that case, you won’t need to copy the *integrate* files into your course folders because this step has already been done for you.
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.

   ![i>clicker Welcome window](image)

   **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**.
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.

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

**TIP:** If you are not sure which LMS platform you use, you can either ask your administrator for help or locate the information on your LMS home page.

9. Click **Set for Course**.

10. 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.
Step 3: Enable Student Registration in Sakai

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 Sakai gradebook and in the i>grader application.

To enable i>clicker remote registration in Sakai:

**NOTE:** If i>clicker is widely used on your campus your Sakai administrator may have enabled the i>clicker registration link in all courses (so you don’t have to enable the link at all). Check with your Sakai administrator for details.

1. Log into Sakai using your instructor username and password.
2. On the **Sakai Home Page**, select the course to which you want to enable i>clicker registration.
3. On your **Course Home Page**, click the **Site Info** link in the left navigation list.
4. On the **Site Info** page, click the **Edit Tools** link.
5. On the **Project Site Tools** page, select the i>clicker check box and then click the **Continue** button.
6. Review your changes on the Confirmation page, then click **Finish**.

7. You should now see an i>clicker link in the left navigation list. Your course is now set up and ready for students to register their i>clicker remotes. Use the instructions below to instruct your students to register.

**Directions for STUDENTS to register their i>clicker remotes:**

1. Log into Sakai and select your course.
2. Click **i>clicker** in the left navigation list.
3. On your i>clicker Remote Registration page, enter your i>clicker remote ID and click the Register Button.

4. Your remote is now registered. You can remove your remote registrations from Sakai at any time by clicking Remove on the i>clicker Remote Registration page.

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 Sakai 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 Sakai. If, for example, students break an clicker, they can register additional clickers through the same tool and all of their registered clickers (and their votes) will be tied to their Sakai 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.

   NOTE: If your campus is transitioning to a new version of your LMS or you use multiple LMS platforms, your administrator may have set up integrate to enable multiple LMS options. In this case, select the LMS you are currently using from the CMS Description drop-down control. This is atypical, but ask your administrator if you are not sure.

5. Enter your LMS username and password or, if single sign-on is enabled, enter your LMS username and security key. Click Log In.

   NOTE: If your LMS installation uses single sign-on, 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.

   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.

6. 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.
7. 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.

   **NOTE:** If a copy of your LMS roster already exists in the course folder, you will first be given the option to replace it or cancel the import via *integrate*. If you are updating your class roster (or registrations), click **Yes** to overwrite the existing roster file.

8. In i>grader, registered students appear in black, while unregistered students and unregistered clickers (if any) appear in red.

9. Repeat steps 1-7 for each of your courses.

To update your i>clicker roster with new registration information (either to account for your add/drop period or to better reflect late registrations):

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.
NOTE: As noted above, you will be given the option to replace your LMS roster or cancel the import via integrate. Since you are updating your class roster (or registrations), click Yes to overwrite the existing roster file.
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.

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

   ![i>grader Home screen](image)

   **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**.

![CMS integrate Login and Login with SSO Enabled](image)

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**.

![CMS integrate Select Course to upload scores](image)

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 Sakai

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

To view uploaded i>clicker scores in your Sakai Gradebook:

1. Log in to Sakai and select the course for which you wish to view your updated gradebook.
2. Click on the Gradebook link from the left navigation list.

3. The Gradebook will open to the Gradebook Items section by default. The Gradebook Items Summary table lists all items in your gradebook including your newly imported i>clicker scores. Edit the grade item properties by clicking on the Edit hyperlink or click on the title to edit individual student scores. Scores uploaded from i>clicker appear as numeric values and may be edited like any other scores within Sakai.
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.

💡 TIP: You can save the Transmission Report in Excel (.xls), Plain Text (.txt), or comma separated (.csv) format for later review. You can also view any previous Transmission Reports for the same course. Click the Export Options menu at the top of the report and select your desired file format. A confirmation message appears stating that the file was written to your course folder. Click OK to close the message window.