

Integrating SIMTICS into Canvas using an External Learning Tool

This guide will help you set up your Canvas environment so your students can access SIMTICS with SSO and have scores passed back to your gradebook. You may also wish to watch the video tutorial for Canvas integration:

https://www.youtube.com/watch?v=y_3Ee3LpUVg

Please ensure you have at least admin privileges to the courses in Canvas before proceeding with the steps in this guide.

You will also need the following, which the SIMTICS Support Team will provide:

- the unique Consumer Key and Consumer Secret codes for your school
- the list of modules and module codes that your school is purchasing access for; if multiple programs are using SIMTICS, you will need the relevant list for each program; be careful to keep these separate.

If you don't have these yet, please contact us at www.simtics.com/contact/

This guide will take you through the following steps:

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Note: The term “module” in this document refers to a SIMTICS module (eLearning unit), which contains text, video, anatomy, simulations and quiz for learning a skill or procedure. Be aware that some special modules have only simulations and quizzes and a few have only simulations.

Introduction

SIMTICS uses Learning Tool Interoperability (LTI) for integration with Canvas

Once the integration is set up:

- SSO will be operational - students will only need to log into Canvas and will not have to log in a second time to the SIMTICS server.
- A score will be passed back to the gradebook from each student session in SIMTICS. By default, the *best score* for a completed *Test Mode* simulation (if any) will be sent to Canvas when the student logs out of SIMTICS and returns to Canvas.

Optional parameters (see "Using Custom Parameters" in this document along with our separate guide) allow you to capture a Quiz score instead of a Simulation score or the best score *of all time* instead of the best score for the current session.

To link SIMTICS to Canvas, you need a unique SIMTICS consumer key and consumer secret to identify your system to the SIMTICS server. **If you haven't already been given these keys, please contact us at www.simtics.com/contact/**

The launch link for latest SIMTICS HTML5 version is <https://lti.simtics.com/api/v1/new>

If you would like students who access SIMTICS via Canvas to automatically be placed into groups for the SIMTICS reporting system (group.simtics.com), we can turn on a feature that automatically does that based off your course name and SIS ID in Canvas. When a student first accesses SIMTICS via Canvas, they will be sorted into that course specific group.

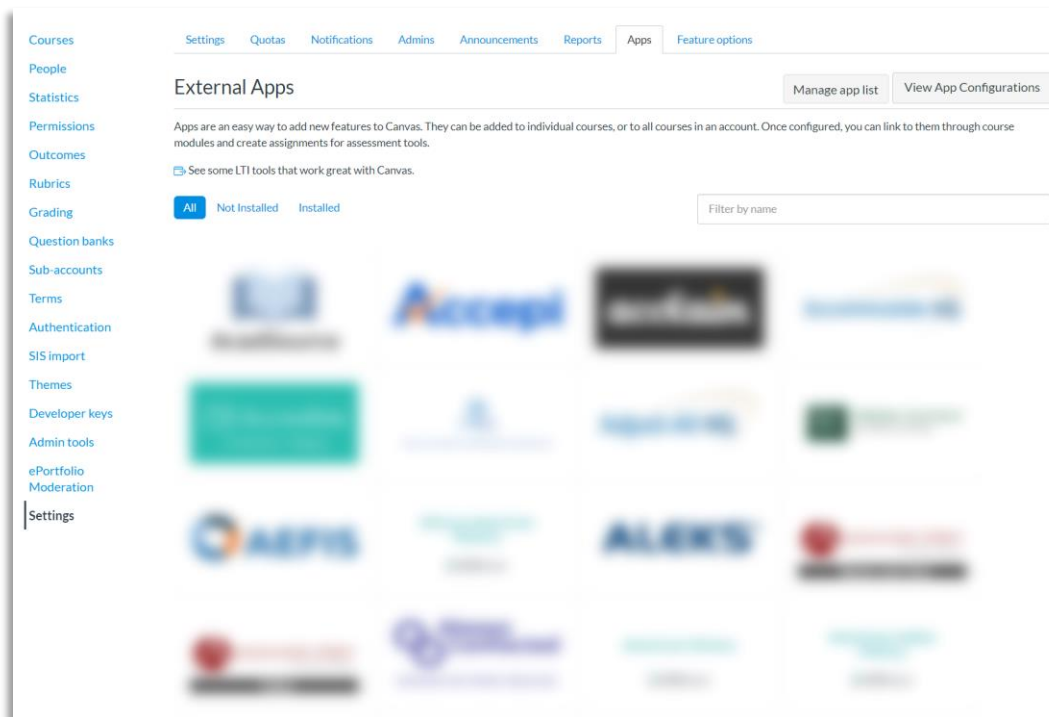
This is something we need to turn on individually for each school/domain, so please email our integration specialist benny@simtutor.com if you would like to have this set up, or you'd like to know more.

Step 1: Setting up SIMTICS as an External App

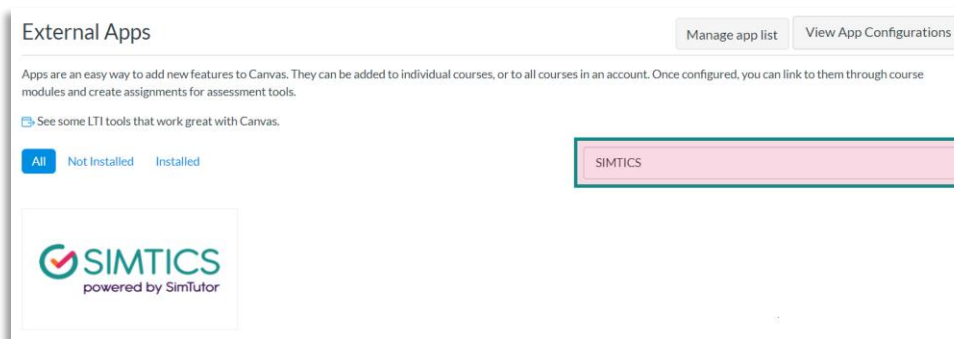
1. There are two ways to set up SIMTICS as an External App - both ways use the same method after the initial step below:

- Log in and navigate to Admin -> Settings -> Apps
- If you do not have full Admin access, navigate to Courses -> [Choose your course] -> Settings -> Apps

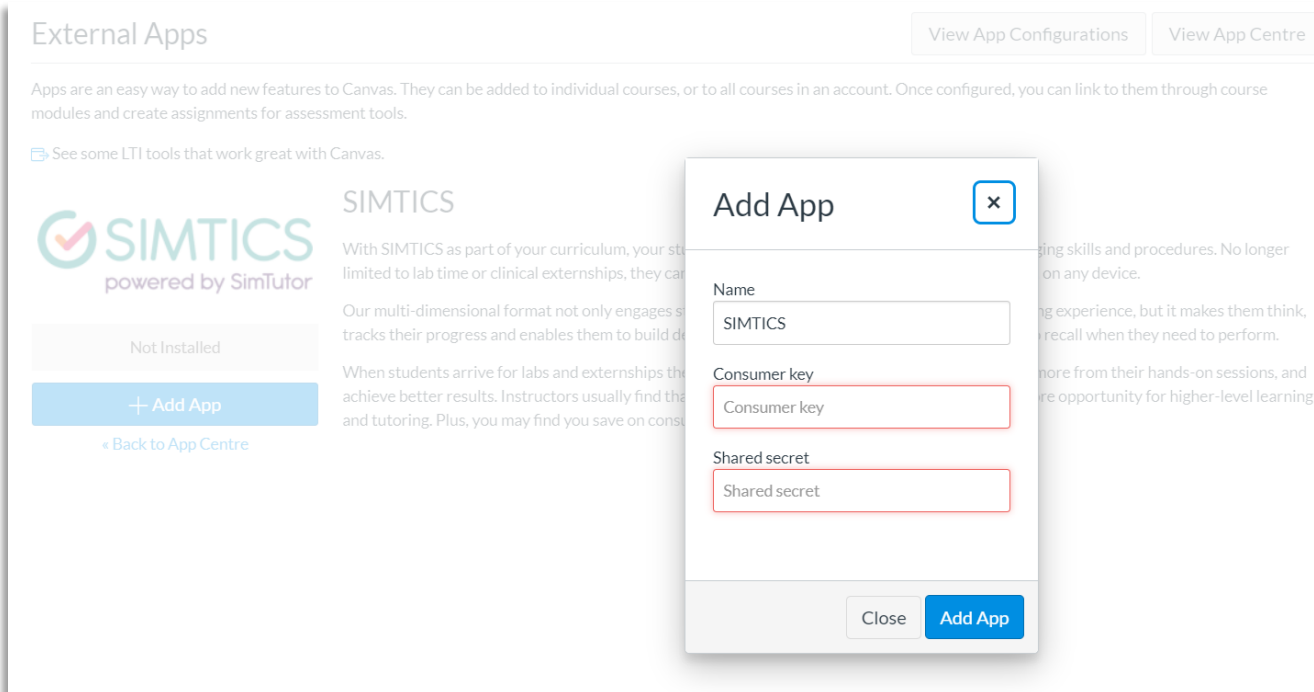
Either path should lead to the screenshot below.



2. Search for "SIMTICS" within the search bar and then select the SIMTICS thumbnail that appears.



3. Click "+ Add App" and a pop-up like the one in the screenshot below should appear.



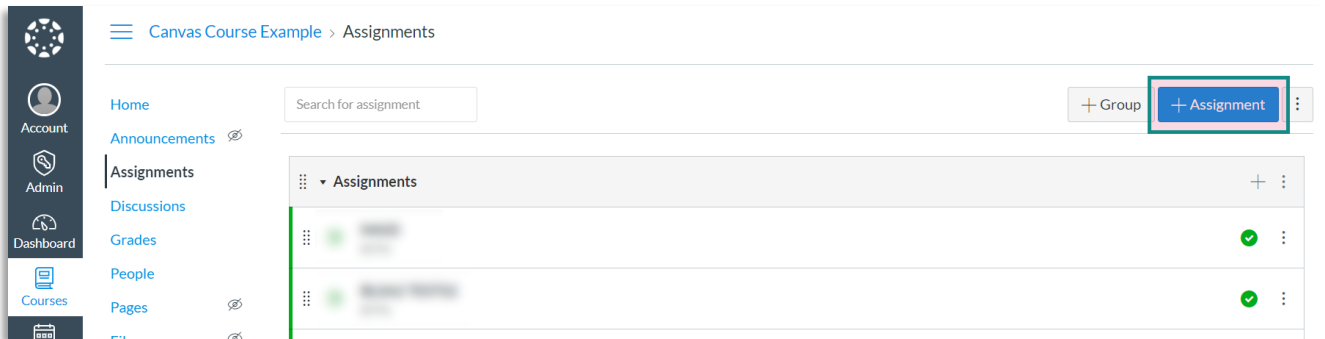
Paste the consumer key and shared secret key that you have been given for your organization.

These keys were emailed to you. Contact us at www.simtics.com/contact/ if you need these resent.

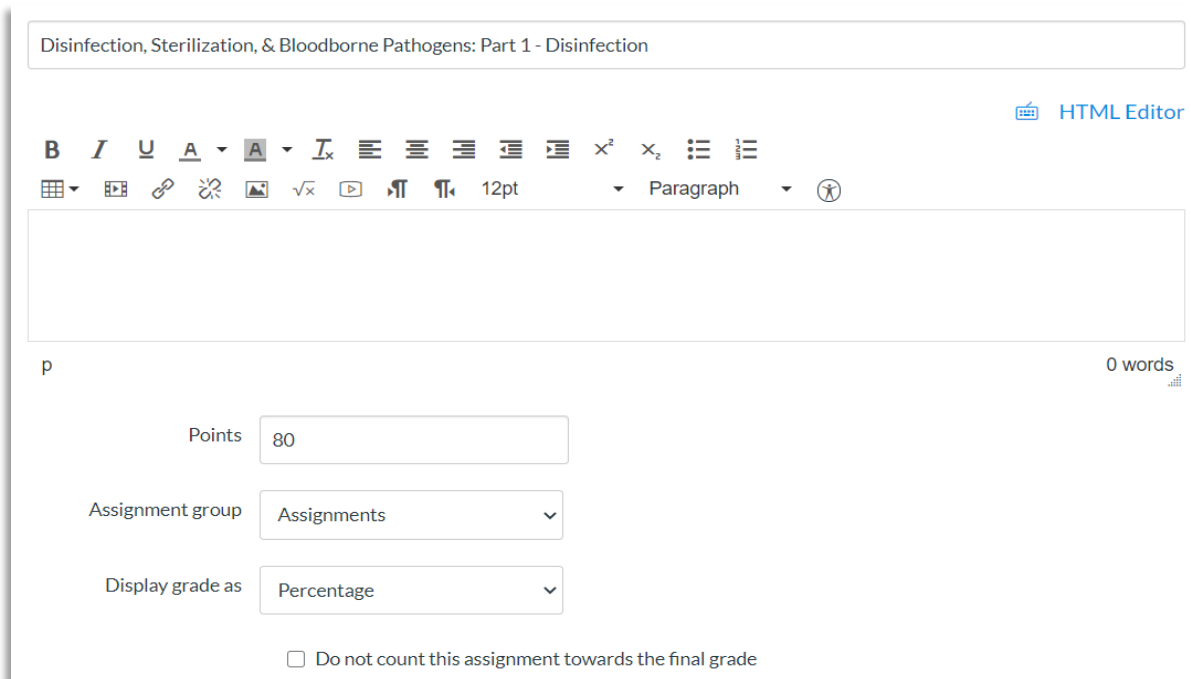
4. Finally, click "Add App"

Step 2: Creating assignments with a SIMTICS module included

1. Navigate to one of your courses and add an assignment.



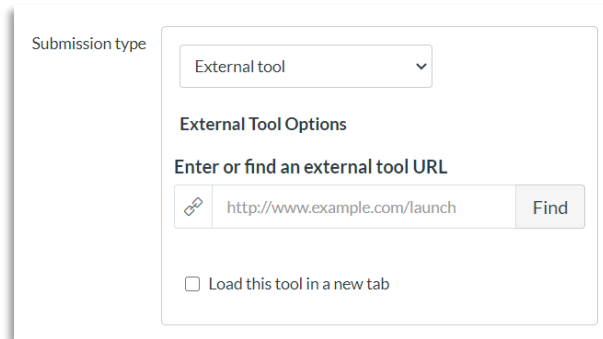
2. Set a Title for this assignment according to the SIMTICS module to which you want to link. (This example below shows how to set up a link for a dental disinfection and sterilization module with the module code DADS1. You should use a module and code from the list that SIMTICS Customer Support has sent you – or the SIMTICS Tutorial module (code "TUT") is a good one to use for testing.)

A screenshot of the Canvas assignment creation form. The title field contains 'Disinfection, Sterilization, & Bloodborne Pathogens: Part 1 - Disinfection'. Below the title is an HTML editor with a toolbar containing various formatting options like bold, italic, underline, text color, background color, link, unlink, image, video, and list. The editor is currently empty. Below the editor, there are several fields: 'Points' is set to 80, 'Assignment group' is set to 'Assignments', and 'Display grade as' is set to 'Percentage'. At the bottom, there is a checkbox labeled 'Do not count this assignment towards the final grade' which is currently unchecked. The word count at the bottom right is 0 words.

The Title should be different for each assignment so you can distinguish between them. Each SIMTICS module has a unique name that you can use.

The points, assignment group, and display grade are all settings you can customize yourself. However, for the “display grade as” dropdown, we do recommend either percentage or points if you wish to track your student’s grades.

3. Change the submission type to External tool and hit the “Find” button next to the external tool URL input box.



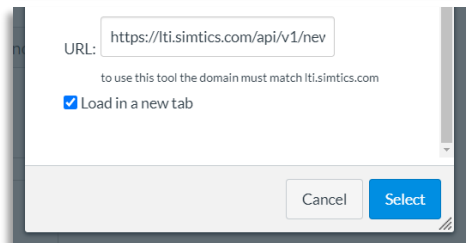
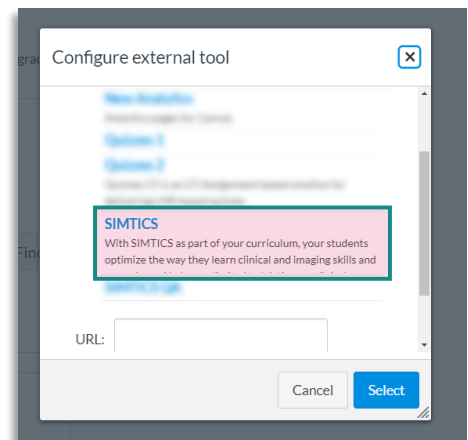
Scroll down until you find the SIMTICS app we added earlier. Select it, and the following URL link should populate:

“<https://lti.simticts.com/api/v1/new>”

Check the “Load in a new tab” checkbox.

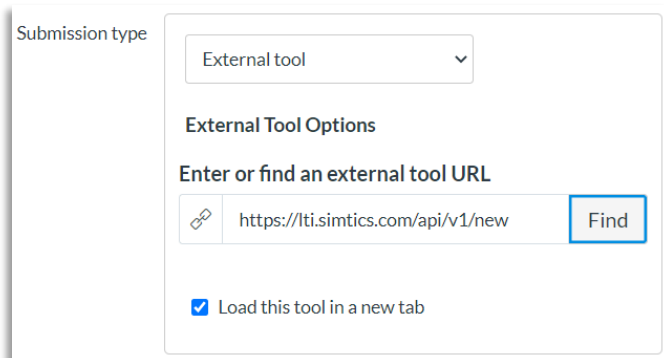
This will launch SIMTICS in a new window, allowing for a full-screen user experience. Please note that some users may have errors when using SIMTICS within the same window as Canvas, depending on the device they use, so it is always recommended to use this option.

Then press the Select button.

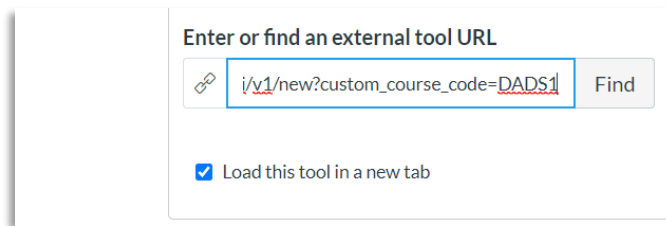


4. Next, we need to define which SIMTICS module we wish to present to the learner for this assignment.

At the end of the URL, enter the following: “?custom_course_code=” then the unique code of the SIMTICS module you wish to use.



For this example, we used the code "DADS1", but just replace this with the UPPERCASE code for one of the SIMTICS modules that your school is purchasing access for. The SIMTICS Tutorial module, "TUT" is always a good one to use if you are testing.

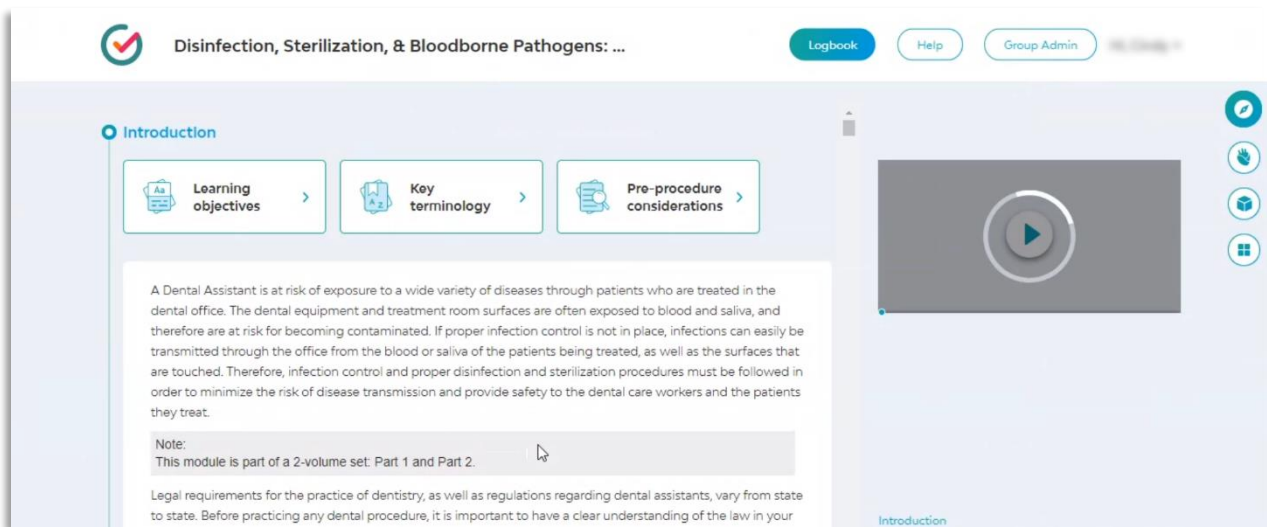


Enter or find an external tool URL

[i/v1/new?custom_course_code=DADS1](#) Find

Load this tool in a new tab

5. All done! Now check that the module link is working as intended. Save and run the newly created assignment. You should see something similar to the screenshot below – however the module you see will be directly related to the course code you used in the custom parameters for this step so, for example, if you used module code "TUT" you will see the SIMTICS Tutorial.



Disinfection, Sterilization, & Bloodborne Pathogens: ...

Logbook Help Group Admin

Introduction

Learning objectives Key terminology Pre-procedure considerations

A Dental Assistant is at risk of exposure to a wide variety of diseases through patients who are treated in the dental office. The dental equipment and treatment room surfaces are often exposed to blood and saliva, and therefore are at risk for becoming contaminated. If proper infection control is not in place, infections can easily be transmitted through the office from the blood or saliva of the patients being treated, as well as the surfaces that are touched. Therefore, infection control and proper disinfection and sterilization procedures must be followed in order to minimize the risk of disease transmission and provide safety to the dental care workers and the patients they treat.

Note:
This module is part of a 2-volume set: Part 1 and Part 2.

Legal requirements for the practice of dentistry, as well as regulations regarding dental assistants, vary from state to state. Before practicing any dental procedure, it is important to have a clear understanding of the law in your

Introduction

If you do not see the module you expect, or if no module launches at all, go back and check that you used the correct module code.

Using Optional Custom Parameters in Canvas

Optional custom parameters allow you to control elements or behavior of the SIMTICS module, such as what scores are passed back, what the student can see, and more.

Below is a list of custom parameters that can be used within Canvas. **Please check out the separate guide, "Customizing the SIMTICS Setup in your LMS", which covers what each of these parameters do in more detail.**

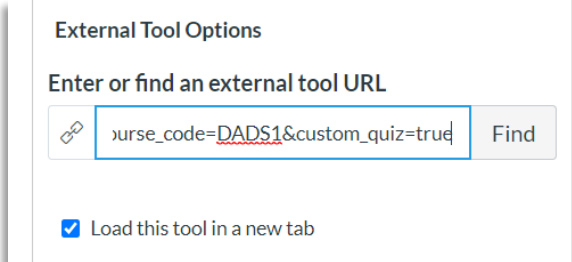
- custom_quiz=true
- custom_learnmode=true
- custom_practicemode=true
- custom_sendmaxscore=true
- custom_testmode=simulation
- custom_testmode=simulation_with_content
- custom_testmode=quiz
- custom_scenario=n (values can be 1, 2 or 3)
- custom_default_view=xxx (values can be anatomy/simulation/quiz)
- custom_quizmode=xxx (Values can be: owl, flash)
- custom_allow_repeat=true
- group=xxx

Note: As shown above, all parameters within Canvas MUST be prefixed with "custom_" for them to take effect.

To use the above parameters in your assignments, you must append them to the end of your external tool URL. After the custom_course_code=xxx, add a "&" symbol, then add your additional parameter.

If you would like to use more than one parameter, separate them with a "&" symbol, then continue appending the parameters to the URL. Here is an example:

https://lti.simtics.com/api/v1/new?custom_course_code=TUT&custom_quiz=true&custom_sendmaxscore=true



External Tool Options

Enter or find an external tool URL

Find

Load this tool in a new tab

Managing user accounts after Canvas integration

Once integration is complete, students and instructors will have access to SIMTICS through the assignment links you have set up in Canvas

IMPORTANT: Students should now use Canvas as their sole method of access to SIMTICS as:

- A new SIMTICS account is set up when a user clicks on their first SIMTICS link in Canvas. This permanently connects the user's new SIMTICS account to their account on Canvas, which enables single sign-on and score pass-back to Canvas's gradebook. We refer to this as a SIMTICS LTI account.
- This LTI account is different from (and is not linked to) any *existing* instructor or student accounts that were previously provided by SIMTICS (eg. for a pilot). So if any of your users already had a SIMTICS account, they now have two SIMTICS accounts – direct and LTI.
- If you have the automatic reporting system feature enabled (see the end of the introduction section of this document), instructors can use the same Canvas links to access the reporting system.
- If you do not have the automatic reporting system feature, instructors can use either account, however to access the GAR System they will need to log in separately at <https://group.simtics.com> with a valid username provided by SIMTICS.

Quick Tips

- If a student exits a Simulation before their score is displayed on their screen, the score won't be calculated/logged and can't be transferred to Canvas. They need to always check that their score displays before they move on to another component or exit SIMTICS entirely. It can sometimes take up to 10 minute for the score to be updated in Canvas.
- The SIMTICS LTI usernames are auto-generated based on your school's id in our system plus user id information that is passed from Canvas. With SSO, end users don't need to know these auto-generated usernames, however faculty / administrators will see them if they use the SIMTICS GAR system.
- If you have introduced this Canvas integration partway through a school year and you need to retain student logbook data from previously existing accounts, you can request for the students' original and LTI accounts to be merged. The older merged data will not be transferred to the gradebook, however, and will only be viewable from the GAR System.

If you encounter any problems with these steps, or have any questions, please contact us using the chat bot on our [website](#) or the contact form at www.simtics.com/contact/