

2018/05



Class Climate LTI[®] Integration



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1. Overview and Technical Requirements

The Class Climate LTI[®] integration functionality allows you to use the built-in LTI framework of your learning management system (LMS) to display Class Climate survey information within the learner and instructor views. The Class Climate LTI integration works with all systems supporting the IMS LTI[®] standard, such as Blackboard, Moodle, Bright-Space[®] by D2L or Canvas.

The LTI integration leverages LTI Roles to populate information in our two dashboards.

1.1. Learner Dashboard

Students now have a dashboard providing survey information in a rich and customizable content. Visual indicators have been incorporated to encourage students to take their surveys.

My Survey Dashboard	(Class Climat	C [®] K system
Environmental Design 01-AD-2634	PhD Marie-Christine Jefferson	Closes in 2 Days 08/27/2017 at 05:20:00 pm	0
Design Technology ^{06-AD-2734}	Emilia Thompson	Closes in 6 Days 08/31/2017 at 05:05:00 pm	•
History and Theory of Architecture 02-AD-2734	Mario Fernandez	Submitted	Ø
Structure, Materials and Forming Techniques	Dean McPherson	Data available	in an
Did You Know? Vour survey results are anonymous! Every survey has a minimum number of students who must respond in order for instructors to receive a summary report. This further protects y We encourage you to participate and help your university understand instructional effectiveness and plan continuous improvement initiatives.	our anonymity.		

Figure 1: Learner Dashboard

1.2. Instructor Dashboard

Instructors will be provided their survey's response rates throughout the evaluation period to help them encourage their students to participate.

My Survey Dashboard			Class C	limate [®] In Feedback system
Design Technology 06-AD-2734		Current Response: 5 of 40	13 %	Closes in 6 Days 08/31/2017 at 05:05:00 pm
Design Projects 03-AD-2835		Final Response: 395 of 478	83 %	View Report
Introduction to Programming for Architecture and Design 07-AD-3835		Current Response: 82		

Figure 2: Instructor Dashboard



The tool can be configured to provide access or not to course evaluation results such as PDF or CSV and can be displayed directly into your LMS portal.

The minimum version of Class Climate required is version 7.0 (2100). Please ensure that the current version of your LMS supports IMS LTI[®].

To ensure a smooth implementation, you must have a Tested network route on port 443 between both servers. Load Balancer, Firewall, proxy servers must be configured adequately.

2. Configuring LTI for Class Climate

2.1. Activating LTI®

The LTI interface can be activated directly in the Class Climate administrator interface. To do this, go to "System Settings / Interfaces & Plug-ins" and open the tab "LTI[®] Interface".

Class Climate [®]	SUBUNITS QUESTIONNAIRES SYSTEM SETTINGS SYSTEM INFORMATION EXTRAS Summer 7 🗘 💽 🔍
Class Climate Admin	Plug-ins Web Service Settings LDAP Settings LTI® Interface
Text Templates	Configuration
Report Settings Online Templates CONFIGURATION Class Climate Settings Define Tree Structure	LTI® Interface to integrate Learning Management Systems If activated, you can integrate a Learning Management System (LMS) such as Moodle with Class Climate via the global default LTI® (Learning Tools Interoperability). The LMS can then display information from Class Climate on different levels: In the student view, you can display links to online surveys with additional infomation. In the instructor view, you can display information on status and response rate of the current surveys. For more information, see the LTI® manual located under "System Information/Manuals".
Course Types Periods Custom Tites Process Defaults Interfaces & Plug-ins Language Sets Panel Administration C Data Bridge	Password The password defined here secures the connection between Class Climate and the integrated Learning Management System (LMS). By defalut, the predefined password is "secret". You can change the password at any time. Please note: If you change the password in Class Climate, you must also change the password in the LMS. Otherwise, the connection cannot be established.
PROFILES User Profile Administrators Grogenization	Save Undo
CURRENT USERS	📩 Upload LTI® Template Files
Loggoff 1	LTI® template files: No file selected.
	Upload

Figure 3: Activate LTI® Interface



Here you can activate the option "LTI[®] Interface to integrate Learning Management Systems".

If you have done so, you can define a password which secures the connection between the Class Climate server and the integrated LMS. The default password is "secret". Please note: If you change the password here, it must be changed in the LMS configuration as well too to work properly.

At the bottom of the page you can upload your own customized LTI[®] templates. If you do not upload customized templates, the default template will be used. For further information, see below chapter 2.2.

2.2. Default LTI Templates

The layout of the Class Climate survey block for learners and instructors is defined by templates. There are four default templates:

Instructor_template.html

Defines the layout and content of the header and footer in the instructor view

Instructor_survey_block_template.html

Defines the content of the survey block within the instructor view (content repeated per survey)

• Learner_survey_block_template.html

Defines the layout and content of the header and footer in the learner view

• Learner_template.html

Defines the content of the survey block within the learner view (content repeated per survey)

The information displayed in the instructor and learner view is defined by the help of placeholders.

In the instructor view, by default the following information is displayed:

- Course name
- Course code
- Response Rate
- Enrollment number
- Open until...
- Status



Figure 4: Instructor View



In the learner view, by default the following information is displayed:

- Course name
- Course code
- Instructor name
- Open until...
- Take Survey Button

Language And Gender: Introduction To Gender And Stereotypes		Closes in 9 Days 07/20/2016 at 01:13:00 pm	0	
	Dead Chause Users and an			1

Figure 5: Learner View

In both dashboards, the surveys of the current survey period are displayed by default. If there is no survey available, a corresponding message will be viewed by the learner.



Figure 6: No surveys found

2.3. Customizing your LTI Connector

If you wish to adapt the content and layout displayed in your LMS, you can customize the LTI templates as well as the stylesheets. To do so, please download the original default templates in the menu "System Information/Sample Files":

Class Climate [®]	SUBUNITS QUESTIONNAIRES SYSTEM SETTINGS SYSTEM INFORMATION EXTRAS WS10/17 💮 ? .			
John Doe	Sample Files			
	Type Example file Description			
	Sample CSV import Sample file for the import of users via CSV (in the user list of a subunit, option "Import users from CSV File").			
Vrite Email	Sample CSV import (extended) Samples for importing user data fields, external IDs etc.			
Utilization Statistics System Summary Class Climate Website	Sample CSV import (modules) Sample file for the import of modules via CSV (in the user list of a subunit, option "Import users from CSV File"). Please note: The sample file only serves to demonstrate the import. If you want to create a module survey for the imported data you will have to link module questionnaires to the assigned course types.			
Sample XML import Sample XML import Sample XML import Sample file for the import of structural data via XML (menu "Subunits/Data Import/XML-Import for subunits, ins				
MAINTENANCE	Sample XML import Sample file for the import of structural data in the context of module evaluation (menu "Subunits/Data Import/XML-Import for subunits, instructors, courses and modules")			
 License Send Email to Support System Cleaning 	Sample CSV import for participants data of participants, CSV import of participant data; for several courses: in the details of a course, button [Edit data of participants], CSV import of participant data; for several courses: menu "Subunits/Data import/CSV-Import for participants data")			
III System Status	Certificate for participation in online surveys (menu "System Settings/Documents/PDF templates")			
DOCUMENTATION	Question library Sample file for the import of questions into the question library (menu "Questionnaires/Question Library/Import")			
Manuals Sample Files	Cover letter for the Sample file for a personalized PDF cover letter, which can precede the report for the instructors (menu "System Settings/Documents/PDF templates")			
,,	PDF report plug-in Sample file for PDF Report Plug-in import (menu "System Settings/Report Settings")			
PROTOCOLS	LTI® Templates Default templates for displaying Class Climate content in Learning Management Systems (LMS) when using the LTI® interface. Upload LTI® templates and CSS Stylesheets from the ZIP archive via the System Settings / Interfaces menu. For more information, see the LTI manual located in the same ZIP drive.			

Figure 7: Download the default templates



The zip archive contains the four templates described in chapter 2.2 Default LTI Templates as well as the css stylesheets for the learner and instructor view (instructor.css and learner.css). In addition, it contains the LTI manual.



Figure 8: Content of the zip archive

2.3.1. Customize Templates

You can adapt the html templates to define which kind of survey data shall be displayed in the LMS and/or define logical conditions within the templates (using Java Script). The following list shows all placeholders which can be used in the templates:

Instructor & Learner Template	Description
[SURVEY_ID]	Internal Class Climate survey ID (e.g. 15306)
[SURVEY_NAME]	Name of the survey (e.g. Web Design)
[COURSE_CODE]	Course code (e.g. Co-002-A)
[INSTRUCTOR_NAME]	Name of the instructor (title, first name, surname) (e.g. Prof. Donna Harwood)
[INSTRUCTOR_IMAGE]	Path to the image of the main instructor
[SURVEY_STATUS]	Current status (e.g. In Progress, Data available)
[SURVEY_TYPE_IMAGE]	Link to graphic indicating the survey type (online.png, hy- brid.png or paper.png); graphics are stored in subfolder "customer\LTI\images"
[SURVEY_TYPE_NAME]	Survey Type ("Online Survey", "Hybrid Survey", "Paper Survey")
[SURVEY_IS_ANONYMOUS]	Logical condition, value true / false
[SURVEY_IS_OPEN]	Logical condition, value true/ false
[SURVEY_PERIOD]	Survey period (e.g. 2016-1)
[SURVEY_CREATION_DATE]	Date of survey creation (e.g. 02/25/2016 at 09:18:04 am)
[SURVEY_SCHED- ULED_START_DATE]	Start date defined in Scheduled Tasks (Task "PSWD to re- spondents") (e.g. 02/29/2016 at 09:30:00 am)
[SURVEY_SCHEDULED_END_DATE]	End date defined in Scheduled Tasks (Task "Finish survey") (e.g. 03/14/2016 at 06:00:00 pm)
[SURVEY_LAST_COLLECTION]	Date of last data collection (e.g. 03/07/2016 at 09:18:04 am)
[SURVEY_ENROLLMENT]	Number of course participants (e.g. 20)
[SURVEY_RESPONSES]	Number of responses (e.g. 18)



[CSV_EXPORT_PATH]



[SURVEY_RESPONSE_RATE]	Response Rate (e.g. 90) (consider method to calculate response rate in Class Climate, see information below)
[SECONDARY_INSTRUCTOR_NAMES]	Names of all secondary instructors divided by " " (Pipe)
[SECONDARY_INSTRUCTOR_IM- AGES]	List of all paths to the images of the secondary instructors divided by " " (Pipe)
[LOAD_INSTRUCTOR_IMAGE]	Boolean ("True"/"False"), linked to the request parameter "learner_load_instructor_images"

Learner Template Only	Description
[DIRECT_ONLINE_LINK]	Direct link to online survey including PSWD
[PARTICIPATED]	Logical condition, value true/ false
[LEARNER_RESULT_ACCESS]	Boolean ("True"/"False"), linked to the option "Allow result access" in the questionnaire details
[LEARNER_RESULT_ACCESS_LINK]	Direct link to the HTML report view. Result access is limited to surveys in current period(s).
Instructor Template Only	Description
[PDF_REPORT_PATH]	URL to PDF report

After you have changed the HTML templates, please re-start the "memcached service" on the Class Climate server to ensure that the changes are taken over correctly.

URL to CSV export

In the example below, you can see an adapted HTML template. In this case, result access for students has been activated by means of the parameters [LEARNER_RESULT_ACCESS] and [LEARNER_RESULT_ACCESS_LINK]:

My Survey Dashboard	Class Climate*
Environmental Design 01-AD-2634	PhD Marie-Christine Jefferson
Design Technology 06-AD-2734	Emilia Thompson
History and Theory of Architecture 02-AD-2734	Mario Fernandez
Structure, Materials and Forming Techniques	Dean McPherson
Did You Know? Vour survey results are anonymousl Vour survey nesults are anonymousl Every survey has a minimum number of students who must respond in order for instructors to receive a summary report. This t We encourage you to participate and help your university understand instructional effectiveness and plan continuous improvem	further protects your anonymity. ment initiatives.

Figure 9: Learner View: Access HTML report via LTI

Scantron Corporation – 1313 Lone Oak Rd – Eagan, Minnesota 55121 1-800-722-6876



The results are displayed in the student view of your LMS as soon as the survey in Class Climate has been closed. Only closed surveys for the current evaluation period will be displayed.

Please note: To use this feature, as a prerequisite, you have to grant result access for the questionnaire used for your Class Climate survey.

🛃 Details fo	or questionnaire Tra	ain <u></u>	_en1		
Train_en1 (Cours	se Evaluation)				
 ✓ VividForm B PDF Sam In the record 	s Editor ple (Show) ognition set of the VividForms	Rea	der (Refresh)	🔁 Copy 📄 PDF (S Previe	and open the qu paper survey (Sh w online survey
Advanced settings	i			Question	aire
Te:	kt Templates	-	Edit		Edit Form
					Export
Usage					
General Settings			Reporting Options		
Questionnaire	Activated	•	Mirrored scale values		
Survey Type	ALL	•	Allow Summary Reports		
Procedure	Central Evaluation	-	Evaluation for participants Image: Constraint of the second sec	estions	

Figure 10: Allow result access for a questionnaire

2.3.2. CSS Style Sheet

Additionally, you can adapt the CSS style sheets to change settings for fonts, colors, margins etc.



2.3.3. Upload templates

After you have done your changes to the html and css files, you can upload the templates in the menu "System Settings / Interfaces & Plug-ins", tab "LTI[®] Interface". Before uploading the files, please add them to a zip archive.

LTI® Template Files		
LTI® template files: No file selected. Please note: The template files uploaded here control the display of the Class Climate content in the student and/or instructor view of the Learning Management System (LMS) when using the LTI® interface. TI® templates and dapt them according to your needs. For further information please refer to the LTI® manual in the menu "System Information / Manuals".		
Copioad Lines remplate files: No file selected. Browse Please note: The template files uploaded here control the display of the Class Climate content in the student and/or instructor view of the Learning Management System (LMS) when using the LTI® interface. The default templates are overruled when uploading customized templates. In the menu "System Information / Sample Files" you can download the default LTI® templates and adapt them according to your needs. For further information please refer to the LTI® manual in the menu "System Information / Manuals". Upload		

Figure 11: Upload template files

Please note: The default templates are overruled when uploading customized templates. In the menu "System Information / Sample Files" you can download the original default LTI® templates again at any time.

2.3.4. Customize Images

If you wish to customize the images used for the display of survey types (placeholder [SURVEY_TYPE_IMAGE]), you have to change the image files directly on the Class Climate server.

- *:\Apache\htdocs\classclimate\customer\LTI\images
- *:\Inetpub\wwwroot\classclimate\customer\LTI\images

You can substitute the images with your own, keeping the correct file format and file name (online.png, paper.png, hybrid.png).

2.3.5. LMS Custom Parameters

Use the dashboard to add custom parameters directly in your LMS.

They can be divided in 2 types:

Learner

- order_by_survey_close_date
- learner_survey_types
- learner_show_completed_surveys
- learner_load_instructor_images
- learner_lms_identifier
- learner_provider_identifier



Instructor

- order_by_survey_close_date
- instructor_survey_types
- instructor_show_past_surveys_for_n_previous_periods
- instructor_survey_data_access_for_n_previous_periods
- instructor_show_report
- instructor_show_export
- instructor_plugin_response
- o instructor_Ims_identifier

2.3.6. Learner Custom Parameters

order_by_survey_close_date = 0 or 1

Defines, if surveys in the learner and instructor view are ordered alphabetically (0) or by survey close date (1)

learner_survey_types = pipe separated "o", "h" (e.g. "o|h" for online & hybrid surveys only)

Defines, which types of surveys are displayed in the learner view;

o = online, h = hybrid

Default: o|h

learner_show_completed_surveys = 0 or 1

Defines, if only open surveys are displayed in the survey list of the learner view (0) or if also completed surveys are displayed (1)

Default: 0 (only open surveys)

```
learner_load_instructor_images = 0 or 1
```

Defines the ability to display the instructor profile picture uploading in Class Climate within the placeholders INSTRUCTOR_IMAGE, SECONDARY_INSTRUC-TOR_IMAGES (1) Sets the placeholder LOAD_INSTRUCTOR_IMAGE

Default: 0

learner_lms_identifier = any parameter from the LTI request (e.g. "ext_user_username")

Defines, which parameter from the LTI request should be used as identifier instead of the email address. Use this parameter in case the email address in the LMS differs from the email address of the participant in Class Climate.

Default: "" (the email address is taken as identifier)



learner_provider_identifier = "custom1", "custom2", "custom3"

Defines, which custom field of the participant in Class Climate should be used as identifier instead of the email address (e.g. if you use the LMS username as identifier, it has to be imported as a custom field of the participant)

Default: "" (the email address is taken as identifier)

2.3.7. Instructor Custom Parameter

instructor_survey_types = pipe separated "o", "h", "p" (e.g. "o|h" for online & hybrid surveys only)

Defines, which types of surveys are displayed in the survey list in the instructor view; o = online, h = hybrid, p = paper

Default: o|h|p

instructor_show_report = 0 or 1

Defines, if PDF survey reports can be opened via the survey list in the instructor view (1) or if not (0)

Default: 0 (no report)

Please note: If you activate the report function, this may increase the workload on the Class Climate server and thereby affect performance.

```
instructor_show_export= 0 or 1
```

Defines, if raw data for closed surveys can be opened via the survey list in the instructor view (1) or if not (0)

Default: 0 (no export)

Please note: If you activate the export function, this may increase the workload on the Class Climate server and thereby affect performance.

instructor_show_past_surveys_for_n_previous_periods = 0 to X

Defines, if only surveys of the current survey period are displayed (0) or if surveys of former periods are displayed as well.

Default: 0 (only current surveys). X would be the number of past periods (X is a positive integer)

instructor_survey_data_access_for_n_previous_periods = 0 to X

Defines, if you want to display survey information for a particular number of past periods.

Default: 0 (only current surveys). X would be the number of past periods (X is a positive integer)

order_by_survey_close_date = 0 or 1



Defines, if surveys in the learner and instructor view are ordered alphabetically (0) or by survey close date (1)

instructor_plugin_response = the plug-in name (e.g. BringYourOwnDevice)

Defines, if the survey list in the instructor view should be replaced by a plug-in content. All plug-ins, which are available for the instructor user role, can be displayed in the LMS. The instructor is automatically logged in and the default instructor view is replaced by the plug-in content. Below, you can see a sample of the plug-in "Bring your own device" displayed in Moodle:

MOD English (en) +				Tom
Environmental Design Home > Env Design > 28 August - 3 September				
NAVIGATION DIT	Following surveys are available. Use the blue arrow icon to get a full-screen display showing the link to thi	s survey as QR code and tiny URL.		
Participants	Survey	Period	Creation date	
Badges	Firewalls and Access Control Lists	Summer18	2018-04-05	-
General b. 34 August - 27 August	Interior Design	Summer18	2018-04-05	-
# 28 August - 3 September	Managing and Maintaining a Healthy Lifestyle	Summer18	2018-04-05	-
A Booline harvege	Psychology 101	Summer18	2018-04-05	-
4 September - 10 September	Security Essentials	Summer18	2018-04-05	-
 11 September - 17 September 18 September - 24 September 25 September - 1 October 	Windows Server 2005-Yukon	Summer18	2018-04-05	+

Figure 12: Plug-in in Moodle

Apart from the plug-ins provided by Scantron you can also use your own plug-ins to be displayed in the LMS. The plug-in which you would like to show first has to be uploaded via the Class Climate menu "Interfaces & Plug-ins". After this, it can be called via LTI with the help of the custom parameter.

Please note that the plug-in will substitute the instructor's survey list which is displayed by default, so it will be displayed instead of the survey list.

instructor_lms_identifier = any parameter from the LTI request (e.g. "ext_user_username")

Defines, which parameter from the LTI request should be used as identifier instead of the email address. Use this parameter in case the email address in the LMS differs from the email address of the instructor in Class Climate.

Please note: If you use this parameter, the identifier is matched against the external ID of the instructor. Therefore, the usage of external IDs must be activated in Class Climate.

Default: "" (the email address is taken as identifier)



2.4. Settings within Class Climate

The unique identifier and connector for instructors and learners is the email-address stored in Class Climate and in the LMS tool you are using.

2.4.1. Learner Settings

In case of learners, the system checks for each learner stored in the LMS database which of the open online surveys running on the Class Climate server contains the same learner's email address. If there are open online surveys for an email address, the surveys will be displayed in the learners LMS account.

When you set up or import courses in Class Climate, it is therefore necessary to also import the participants email addresses for each course.

Participants can be imported in a CSV file format that includes a course ID followed by an e-mail address for each line.

Example: MA05Wiw2; person01@localserver.com MA05Wiw2; person02@localserver.com MA05Wiw2; person03@localserver.com MA05Con; person01@localserver.com MA05Con; person03@localserver.com MA05Con; person04@localserver.com

This example shows two courses with three and four participants each. Some of the participants are attending both courses, some only one of both.

Before importing the participant data into Class Climate you will need to setup the subunits, questionnaires, instructors and courses. It is essential that the course IDs set for the courses are identical to those being used in the participant import file since they serve as a reference.

It is possible to use a different identifier than the e-mail address. In this case, it is necessary to import the identifier by using the additional fields for participant information. When importing the participant data for an anonymous survey, the course ID and the email address, as well as the LMS user name, are uploaded. An example CSV import file could look like this:



Course ID	Email address					Custom field 1	Custom field 2	Custom field 3
А	В	с	D	E	F	G	н	I
VWL006	t1@example.com					LMS User Name 1		
VWL006	t2@example.com					LMS User Name 2		
VWL006	t3@example.com					LMS User Name 3		
VWL006	t4@example.com					LMS User Name 4		
VWL006	t5@example.com					LMS User Name 5		

Figure 13: Import file with LTI name in the custom field

Please note that you have to adhere to the correct format of the import file. In LTI you have to define which of the Class Climate user data fields has to be matched with the LMS user name.

Please refer to chapter 2.2.3 "Import of Course Participants' Email Addresses" of the Class Climate User Guide for more information about the participants' data import process.

Scantron also offers professional services to help convert your data into the XML format needed by Class Climate. It is also possible to create the courses manually within the Class Climate interface or to create simpler, Excel-based CSV import files for each subunit. Please refer to section 2.2.1 "CSV-Import within Subunits" of the Class Climate User Guide for more information about the CSV import process.

2.4.2. Instructor Settings

In case of instructors, the instructor's email address has to be defined in the corresponding Class Climate user profile as well as in his LMS user profile. The system checks for each instructor stored in the LMS database which surveys are available for the instructor's email address and displays the surveys in the instructor's LMS account.

It is possible to use an external ID instead of the e-mail address. In this case it is necessary to set an external ID for the instructors. The LMS name used in the LMS must match with the information stored in the "External ID" field of the instructor.

Change the	attributes of the user	1 - 2 - 3
	Mr.	
Title:		
First name:	Demetrius	
Last name:*	Bowlin	
external ID:	LMS-Name-1	
Email:	Demetrius.Bowlin@example.com	
Phone:		

Figure 14: Instructor's external ID



Of course, you can also import this information. When doing a CSV import, you have to use a column with the column label USER_EXTERNAL_ID. For further information on external IDs please refer to the Class Climate User Guide.

Please note: If an instructor is stored in more than one Class Climate subunit with the same email address, then the survey data can only be displayed in the instructor's LMS account if you are using External IDs to connect the instructor accounts in Class Climate. If you do not use External IDs, then the data will not be displayed!

The same is true for courses or modules with secondary instructors: The data of these surveys will not be displayed in the instructor's LMS account if there is no External ID defined for the instructor.

The use of External IDs is not activated by default. To activate the function, go to "System Settings / Class Climate Settings / Functions / General" and activate the option "Display external ID".

Display external ID	
Activated	An external ID is a unique name/number which can be transferred from an external system into Class Climate. If this option is activated, then the external ID is shown in the user profile and can be edited there.
Make this option available to Subunit Admini	strators

Figure 15: Activate External ID

When activated, for each instructor an External ID can be defined or imported. For further information on the use of External IDs please refer to the Class Climate User Guide, chapter 2.1.2 "Generating and Managing User Accounts", section "Using External IDs".

In order to display survey data of courses an instructor is defined for as secondary instructor (e.g. module courses), the corresponding setting has to be activated in the Class Climate settings as well. To do this, go to "System Settings / Class Climate Settings / Data Privacy" and activate the option "View reports as secondary instructor".

View reports as secondary instructor	
	If this option is activated, active and passive instructors/deans can view the reports of surveys for which they are defined as a secondary instructor. After logging into their account, they can access the reports via the "Reports central evaluation" / "My Surveys" menu and then view and add notes to the surveys.
	Note: Instructors/Deans can only view these reports if they are generally allowed to request reports of central evaluation surveys. Please note the separate configuration settings "Passive instructors: Login for report request" and "Active instructors: Access to reports from central evaluation" in the configuration menu "Central Evaluation".

Figure 16: View reports as secondary instructor

2.4.3. Survey Settings

In the learners view, by default only those online surveys are displayed which are currently open. Surveys which have been prepared but are still closed, or surveys which have been finished, will not be displayed.



The easiest way to control the display of online surveys in the learner's view is via the Class Climate "Scheduled Tasks". If you create your online surveys in Class Climate, you can activate "Time Control" and define a date when to "Send PSWDs to respondents" and when to "Finish Survey". Within the time frame of these two scheduled tasks the survey will be displayed in the LMS student's view.

vey reminder 3. Response Rate Notification 4. Finish survey ivated Deactivated Deactivated it Edit Edit Deactivate Deactivate Import the instructor of the course about the PSWD
☐ Inform the instructor of the course about the PSWD
dispatch. on (Please use the text template "Notification to the instructor about the survey start" for this task. It can be edited in the "Text Templates" menu.)
name): Recipient (max. 25)
e victor.north@sample.com natalie.ball@sample.com kimberly.pullman@sample.com jennifer.dickens@sample.com brian.marshall@sample.com
E E Ø - S R - Ø R - • A - D : survey. Please click on the cess to the survey.
ri e

Figure 17: Define Scheduled Tasks

If you are using "Scheduled Tasks", you should activate the option "Prevent premature display of surveys in LMS" in "System Settings / Class Climate Settings / Survey Online". This way, the links to online surveys will not be displayed directly after the survey has been generated, but only after the first Scheduled Task date.

If you do not activate this option, the survey will be displayed directly after survey generation.



Figure 18: Prevent premature display of surveys in LMS

If desired, you can inform the instructor about the survey start when sending the PSWDs by activating the corresponding checkbox in the "Scheduled Tasks" (see above figure Figure 17). This way, the instructor can be notified that there will be a new survey displayed in the instructor view. There is a text template available in the menu "System Settings / Text Templates" so that the email text can be adapted beforehand.

Class Climate®	SUBUNITS QUESTIONNAIRES SYSTEM SETTINGS SYSTEM INFORMATION EXTRAS	WS18/17 💮 € • Q •
John Doe Administrator	Editing of text templates	
TOOLS Text Templates Text Templates Text Templates Text Templates Conversements Converseme	Action: Merged remider for online survey participants Med data for archive-amail Notification at defined evaluation results Notification of response rate Notification of the instructor about the survey start Online survey participants PSWD and POF for online survey participants (hybrid survey) PSWD for online survey participants Profile law for online survey participant Profile law for online survey participants (hybrid survey) Regulatory information Reminder for online survey participants (hybrid survey) Reminder for online survey participants Results of a survey Language: Inglish (Higher Education) ■ Reference: Notification about the start of the survey [SURVEY]* Text:	Automatic email attachment list: Image: Comparison of the state of the
CURRENT USERS	Survey end: [TASK_SÜRVEY_CLOSE_DÄTE] Kind regards Your Administrator	- -

Figure 19: Informing the instructor about the survey start

For further information on Scheduled Tasks please refer to the Class Climate User Guide, chapter 3.10.1 "Time Control".

If you do not wish to work with Scheduled Tasks, you can also manually control the display of surveys in the LMS by manually locking and unlocking the online surveys.

You can lock or unlock each survey individually in the survey list or survey details by clicking on the lock icon, or you can lock and unlock all surveys of the current period for



a whole subunit by clicking on the lock icon below the user list. This helps you control the visibility of available online surveys in the LMS.

Jser	s in subunit Demo Subunit					I	He	lp
-	Name	(со	Surveys	Created	A	ction	s
-	SU Admin (Subunit Administrator, Report Creator, Verifier, Data E	ntry Assistant)			01/14/2016		0	
-	Peter Harris	[[4]	72 4 / 4	04/28/2015		0	
-	Donna Harwood	[[5]	🔂 8 / 8 *	07/12/2014			
4	Carlos Hernandez	[[6]	🔂 7 / 7 *	07/12/2014			
4	Grace Huddle	[[3]	🔂 3 / 3	07/12/2014			
4	Richelle Meyer	[[3]	🔂 0 / 0	07/12/2014			
4	Jasmine Sadhi	[[6]	🔂 4 / 4	07/12/2014			
Create	New User Create New Module							
Impo	rt Users from CSV File:							
	o file selected. Browse / file contains a column with information whether the course has sec		_		'	Impo	ort	
Ехро	ort user list as a CSV file:	Lock/Unlock Onlin	ne S	Surveys	. 🔍			
(all co	urses will be exported)					Ехро	rt	
					-	1		
					Lock/Unlock	online	Surve	ys:

Figure 20: Lock / Unlock Online Surveys

In the default instructor's view, all surveys of the current evaluation period are displayed, independent of the survey status.



3. Configuring LTI for Learning Management Systems (LMS)

The following chapters will explain how to set up the LTI connection to Class Climate in the different LMS tools.

3.1. Blackboard

To connect Class Climate and Blackboard via LTI, a new LTI tool has to be added and configured in Blackboard. In the following chapters, the relevant steps are described.

3.1.1. Adding a new LTI Tool

Log in to Blackboard as administrator.

Select "System Admin" from the top navigation bar, then select Building Blocks.

Administrator Panel Blackboard Learn ⁺ Release 9.1	1.201410.160373	Biodiverse Delivery, Community Engagement, Content Management Logins Blackboard Therme: Bb Learn 2012
Users	Help	Security
Users	Blackboard Help for Administrators	Input Validation Filter
Customize User Information	Behind the Blackboard ™	Privileges
Institution Roles	Local Support Contact	Session Fingerprint Settings
System Roles	On Demand	Gateway Options
Course/Organization Roles	Blackboard Developer Network	Alternate Domain for Serving Content
		Safe HTML Filters
Courses	Cloud Management	
Courses	Software Updates	Building Blocks
Course Settings	Cloud Connector	Data Integration
Course Catalog		Authentication
Move Files to Course Files	Software Updates	Building Blocks
Terms		Web Services

Figure 21: Building Blocks





Next, select LTI Tool Providers.

				🚨 Blackboa	ard Administrator 🔹 ひ
	My Institutio	on Courses	s Community	Services	System Admin
Building Blocks					0
Building Blocks					
Istalled Tools	a sustana				
onjugare or Detete Ballany Blocks that were included with the	system.				
roxy Tools Ianage and register Proxy Tools and define their Global Prope	rties.				
TI Tool Providers Ianage and register LTI Tool Providers.					
eatured Building Blocks					
Ianage and install Featured Building Blocks					

Figure 22: LTI Tool Providers

Use the Register Provider Domain option to create additional LTI Tool Providers.

+					💄 Blackboard	Administrator	
			itution Cours			System Adı	min
Building Blocks > LTI	l Tool Providers						
LTI Tool Prov	viders						
This report is available additional LTI Tool Pro	to show all provider domains in use in the system oviders. <u>More Help</u>	, including the status. Domains can be approved, ex	cluded, and delet	ed. Use the Register F	Provider Domair	n option to crea	ate
Manage Global Proper	ties Register Provider Domain						
		No items found.					
* * * * * * * *	* * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * *	* * * * *			* * * * *	+

Figure 23: Register Provider Domain



3.1.2. Editing LTI Tool

This section contains the mandatory properties of the tool:

- Provider Domain
- Default Configuration
- Tool Provider Key
- Tool Provider Secret
- Send User Date
- User Fields to Send

The Provider Domain should be the IP or hostname of your Class Climate system and must be a HTTPS URL without any parameters, similar to this:

https://<hostname>/classclimate/customer/lti/lti_provider.php.

For "Default Configuration" choose "Set globally".

The "Tool Provider Key" is "12345".

The "Tool Provider Secret" is defined in the Class Climate menu "Interfaces and Plug-ins / LTI[®] Interface" (see above chapter 2.1).

In the "Tool Provider Custom Parameters" box you may add one or more of the parameters described in the section LMS Custom Parameters.

+						💄 Blackboar	d Administrator
							System Admir
Building Blocks > LTI Tool Provider	s > Register Provider Domain				 		
Register Provider	Domain						
Create a new registered prov	ider domain, configure, and set polici	ies. The provider domain, and :	secondary hostnames mus	t be unique.			
✤ Indicates a required field.						Cancel	Submit
PROVIDER DOMAIN STAT	TUS						
Set the status of the provider	domain. You can also provide a list of add	itional hostnames to share this cor	ufiguration if needed.				
🔆 Provider Domain	148.251.90.171						
Provider Domain Status	 Approved Excluded 						
Secondary Hostnames							
	Enter one hostname per line.						
DEFAULT CONFIGURATIO) N						
LTI Tool Providers can reque	st configuration per link, or can provide ke	y and shared secret information fo	or site-wide configuration.				
Default Configuration	 Set separately for each link Set globally 						
🔆 Tool Provider Key							
★ Tool Provider Secret							
Tool Provider Custom Parameters							

Figure 24: Register Provider Domain settings I





In the "Institution Policies" section, the option "Send User Data" should be set to "Send user data over any connection". As "User Fields to send" select "Email Address" and "Role in Course".

INSTITUTION POLICIES			
Choose whether you want to	override the institution policies for this specific tool provider domain.		
Send User Data	Never Send user data only over SSL Send user data over any connection		
User Fields to Send	Cole in Course Name Constant Address		
Show User Acknowledgment Message	⊙ Yes 🙍 No	l≽.	
T T T T Paragrapt A $\mathcal{K} \supseteq \Box Q$ $\square \square \square \blacksquare \equiv \exists$ $f_x \P \ \omega \otimes \square \mathcal{L} \blacksquare \blacksquare$	rial · 3 (12pt) · Ξ · Ξ · · · · · · · · · · · · · · ·		□ 1 % ≈
Path: p			Words:0 🦽

Figure 25: Register Provider Domain settings II

After setting all these details, press "Submit" to create the LTI Tool.

3.1.3. Managing Placement

In order to reach the LTI Tool logged in as a student, a placement has to be created, which includes all the basic settings (displayed name, tool provider URL etc.).

Press "Manage Placement" and then "Create Placement" to set the placement's details.



Figure 26: Manage Placements





Þ						💄 Blackboar	d Administrator	
							System Ad	mi
Building Blocks > LTI To	ool Providers > Manage Placements: 148.251.90.171							
lanage Plac	ements: 148.251.90.171							
reate, Edit, or Delet	te a Tool Provider Placement. Deleting a Tool i	Provider Placement will not delete any conte	nt associated with it. Links to	the placemen	t will no longe	r function		
reate Placement								l
								1
		No items found.						

Figure 27: Create Placement I.

First, define the name of the LTI Tool, that the students would see (Label), then the unique name of the placement (Handle). The type should be set to Student Tool.

L					lackboard	Administrator
		My Institution	Courses	Community	Services	System Adm
Create Place	ment					
The provider specified name to Course Builde	will always be available through the C rs and Instructors.	reate URL workflow. Set	the options be	low if you want	this provider t	o also appear b <u>i</u>
✤ Indicates a require	d field.				Cance	el Submit
1. Placement Info	rmation					
	Class Climate					
	This is the label that will show	up in the course.				
Description						
A85 -						
						baractor count: 0
					C.	maracter count. 0
★ Handle	Class Climate This uniquely identifies the pla	acement.				
Туре	Student Tool					
	Content Type Tools	- Placem	ent allows grad	ling		
	This controls how and where t When a placement is of type C column for it in the Grade Cen of Learn, grades will be autom	the provider appears in the o ontent, it can be set to allow ter. If the Tool Provider sup natically updated in the Gra	course, and hou grading which ports publishing de Center.	v links to the provi will offer the opti g grades, and this	ider can be creat ion to instructors option is enable	ted and managed. s to create a ed in this instance
lcon	Browse Upload a custom	icon that will be shown in t	he course. The s	ize of the icon sho	uld be 50 by 50	pixels.

Figure 28: Create Placement II.

C A N ASSESS	TRON. MENT SOLUTIONS	Clas COURSE EN
	This controls how and where the provider appears in the course, and how links to the provider can be created and managed. When a placement is of type Content, it can be set to allow grading which will after the option to instructors to create a column for it in the Grade Center. If the Tool Provider supports publishing grades, and this option is enabled in this instance of Learn, grades will be automatically updated in the Grade Center.	
CON	Browse Upload a custom icon that will be shown in the course. The size of the icon should be 50 by 50 pixels.	
Enter the Tool Provider Inform	nation. The Tool Provider URL must be located on one of the configured host names.	
* Tool Provider Key	juascimaterousomeritutisti asciimate 100, php	
🔆 Tool Provider Secret	secret	
Tool Provider Custom Parameters	Enter one custom nonometers required by the tool provider. Parameters put each he on their our line and he entered in "none-suble" format	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Click. Submit to proceed. Clic	k Cancel to go back.	mit

Figure 29: Create Placement III.

Once the settings are done, press "Submit".

Add the Tool link to the table of content. This can be added globally.

3.1.4. Blackboard Sample Screenshots

Class Climate LTI Integration in Blackboard:

8 4		💄 student student 🔻 Ů
	My Institution Courses	Community Services
Environmental Design Class Climate Surveys		0
My Survey Dashboard		Class Climate®
Environmental Design 01-AD-2634	PhD Marie-Christine Jefferson	Closes in 2 Days
Design Technology 06-AD-2734	Emilia Thompson	Closes in 6 Days 08/31/2017 at 05:05:00 pm
History and Theory of Architecture 02-AD-2734	Mario Fernandez	Submitted
Structure, Materials and Forming Techniques 04-AD-2636	Dean McPherson	Data available 📲
Did You Know? Vour survey results are anonymous! Every survey has a minimum number of students who must respond in order for instructors to receive a summary report. This further protects your anonymit We encourage you to participate and help your university understand instructional effectiveness and plan continuous improvement initiatives.	ty.	

Figure 30: Blackboard Student View





8 💶			💄 Mason Nole	ள 1 - ப
	/ly Institution	Courses	Community	Services
Design Technology Class Climate Surveys				÷. 0
My Survey Dashboard			Class COURSE EVALU	Climate [®] Ation feedback system
Design Technology 06-AD-2734		Current Response 5 of 40	: 13 %	Closes in 6 Days 08/31/2017 at 05:05:00 pm
Design Projects 03-A0-2835		Final Response: 395 of 478	83 %	View Report
Introduction to Programming for Architecture and Design 07-AD-3835		Current Response 82	*:	

Figure 31: Blackboard Lecturer View

3.2. Moodle

To connect Class Climate and Moodle via LTI, a new LTI tool has to be added and configured in Moodle. In the following chapters, the relevant steps are described.

3.2.1. Adding a new LTI Tool

To add a new LTI tool, log in to Moodle as an administrator and turn on editing by clicking the option "Turn editing on" in the "Administration" section.

ADMINISTRATION	- <
 Front page settings 	
🖉 <u>Turn editing on</u> 🚤	
Edit settings	
▶ Users	
▼ Filters	
Reports	
🏚 Backup	
📩 Restore	
Question bank	
Site administration	
Search	

Figure 32: Turning editing on





Open the drop-down list, "Add an activity...". Select the option "External tool".

Available courses	⑦ Add a resource ▼	0	Add an activity v Add an activity Assignment Chat Choice
© LTI Test Course QA			Database External tool Forum Glossary Lesson
© LTI Test Course			Quiz SCORM package Survey Wiki
© Moodle Course			Workshop
Add a new course			

Figure 33: Add External Tool

Click the + icon next to "Preconfigured tool".

🚓 Adding a new External tool 💿					
▼ General	Expand all				
Activity name* Preconfigured tool ⑦ Launch/cartridge URL ⑦	Automatic, based on launch URL				
▶ Privacy	Show more				
▶ Grade					
Common module settings					
▶ Tags					
▶ Competencies					
	Save and return to course Save and display Cancel				







In the "External tool configuration", you can now define the settings for the Class Climate LTI integration.

External tool configuration					
▼Tool settings					
Tool name* 🕐	Class Climate				
Tool base URL* 🕐	https:/176.9.106.110:8443/classclimatev70/lti_provider.php				
Consumer key 🕐	12345				
Shared secret ③	•••••				
Custom parameters ③					
Default launch container ⑦	Embed •				
	Show more				
Privacy					
Share launcher's name with tool ⑦	Delegate to teacher •				
Share launcher's email with tool 🕐	Delegate to teacher 🔻				
Accept grades from the tool ③	Delegate to teacher 🔻				
(?)	Force SSL				
	Save changes Cancel				

Figure 35: External tool configuration

Enter the following information:

- Tool Name: e.g "Class Climate Surveys"
- Tool base URL: Customer specific URL to the Class Climate server, e.g. https://<hostname>/classclimate/customer/lti/lti_provider.php
- Consumer Key: "12345"
- Shared Secret: e.g. "secret", defined in the Class Climate menu "Interfaces and Plug-ins / LTI[®] Interface" (see above chapter 2.1)





- In the "Custom Parameters" box you may add one or more of the parameters described in the section LMS Custom Parameters.
- Default launch container: "Embed"

Click [Save Changes] to return to the prior view.

Enter an Activity name and select the external tool type you have just created from the drop-down list. Click [Save and return to course].

Adding a new External tool®					
• General					
Activity name*	Class Climate Surveys				
External tool type ⑦	Class Climate Surveys				
Launch URL ⑦					
Launch container ⑦	Embed •				
	Show more				
▶ Privacy					
Grade					
Common module settings					
	Save and return to course Save and display Cancel				

Figure 36: Add external tool

3.2.2. Adding the LTI tool to a course

If you want to add the tool to a course, open the course, open "Add an activity..." and select "External tool".

 	Edit * Edit * Edit *
	⑦ Add a resource ▼ ⑦ Add an activity ▼ Add an activity
+ 10 January - 16 January	Assignment Chat Choice Database External tool
	Forum

Figure 37: Add activity to course

Enter an Activity Name and select your Class Climate Surveys tool type from the Global tool types section.

Adding a new External tool 🕫							
General							
Activity name*	Class Climate Surveys						
External tool type ⑦ Launch URL ⑦ Launch container ⑦	Class Climate Surveys Automatic, based on launch URL Global tool types Class Climate Surveys Course tool types PSE LTI						
▶ Privacy	Show more						
▶ Grade							
Common module settings							
	Save and return to course Save and display Cancel						

Figure 38: Select external tool type



Click [Save and return to course]. The activity will now be displayed at the top of the page.

🕂 👼 News forum 🖉	Edit - 💄
🕂 🕂 Class Climate Surveys 🖉	Edit▼
	Add a resource Add an activity
28 January - 3 February	Edit v
	Add a resource Add an activity
4 February - 10 February	Edit v

Figure 39: Activity added to course

3.2.3. Moodle Sample Screenshots

Class Climate LTI Integration in Moodle:

MOD English (en) *		Tom Johnson
Environmental Design	"Imate Support	
NAVIGATION	Class Climate Surveys	
Dashboard Site pages Current course	My Survey Dashboard	Class Climate*
 Design Tech Participants Badges General 21 August - 27 August 28 August - 3 September 21 September - 10 September 4 September - 10 September 11 September - 12 September 12 September - 24 September 2 September - 24 September 2 September - 24 September 2 September - 15 Cotober 3 October - 8 October 3 October - 15 October 15 Cotober 	Environmental Design 91AD-2634	PhD Marie-Christine Jefferson
	Design Technology 06-AD-2734	Emilia Thompson
	History and Theory of Architecture	Mario Fernandez
	Structure, Materials and Forming Jechniques 04.0-2636 Did You Know?	Dean McPherson
 23 October - 29 October My courses 	 Your survey results are anonymous! Very survey has a minimum number of students who must respond in order for instructors to receive a summary report. This further protects your anonymity. We encourage you to participate and help your university understand instructional effectiveness and plan continuous improvement initiatives. 	6
ADMINISTRATION		

Figure 40: Student View





MOD English (en) -

MOD English (en) -				Emilia Th	ompson 🤉 🔹
Design Technology Home > Design Tech > 28 August - 3 Septen	nber ► Class C	imate Surveys			
NAVIGATION	- 4	Class Climate Surveys			
Home		My Survey Dashboard		Class Course evaluat	climate [®] 10h feedback system
 Design Tech Participants Badges General 21 August - 27 August 28 August - 32 Reptember Class Climate Surveys 4 September - 10 September 11 September - 24 September 18 September - 24 September 25 September - 10 October 26 September - 10 October 9 October - 30 October 9 October - 30 October 9 October - 29 October 23 October - 29 October My courses 	Design Technology 06-AD-2724	Current Response: 5 of 40	13 %	Closes in 6 Days 09/03/2017 at 05:05:00 pm	
		Design Projects 05 AD 2835	Final Response: 395 of 478	83.5	View Report
		Introduction to Programming for Architecture and Design 07-AD-3836	Current Response: 82		
ADMINISTRATION Characteristic Constraints and the set of the set					
Course administration Switch role to					

Figure 41: Lecturer View



3.3. BrightSpace[®] by D2L

In this section the installation steps are described which are to be conducted after logging in as a BrightSpace[®] by D2L Administrator. It is possible to setup the LTI link in three ways:

- Link (Widget with Link to open the dashboard in a new tab)
- Quick link (Widget with content inside the widget)
- Course level navigation

In this manual, we describe the quick link.

3.3.1. Edit Course

Select the "Admin Tools" icon from the top navigation bar to access the course administration panel.

Open the section "External Learning Tools".



Figure 42: Edit Course

By default, the "Manage External Learning Tool Links" panel should be open.



If not, open the menu by clicking the corresponding link in the left navigation panel.

Content Developer Resources 🗸 Partne	r Resources 🗸 Assessments 🖌 Course Tools 🗸				
Manage External Learning Tool Links Manage Tool Providers					
New Link					
Title	Url				
Scantron Class Climate 🗸	Inter-Foto Declarate Control con /classclimate/lti_provider.php				

Figure 43: "Manage External Tool Links" Navigation Button

Click "New Link" to configure a new external learning tool.



Figure 44: Add new External Learning Tool



3.3.2. Configure the Link

The first section contains the mandatory properties of the tool:

- The title
- The URL used to access Class Climate

The description is optional, although it is advised to fill it in. The visibility option should be checked so that users can access it.

New	Lir	nk						
Propert	ies							
Title*								
							6	
URL*								
Description	¢*	•			•••			
	abc		6		al			
	abc		Q	53	.11			

Figure 45: Properties

Please note, that the URL be the IP or hostname of your Class Climate system and must be a HTTPS URL without any parameters similar to this:

https://<hostname>/classclimate/customer/lti/lti_provider.php

In the section "Key / Secret" check the option "Sign messages with key/secret with" and select the "Link key/secret" option.

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S C A N T R O N . ASSESSMENT SOLUTIONS



Key/Secret
Signature
 Sign messages with key/secret with Tool consumer key/secret Link key/secret
Кеу
Secret
Custom Parameters
No items found.
♣ Add custom parameters 1

Figure 46: Entering the key and secret

The default "Key" is "12345". In the entry box for the secret, enter the secret you have defined in the Class Climate menu "Interfaces and Plug-ins / LTI[®] Interface" (see above chapter 2.1).

In the "Custom Parameters" box you may add one or more of the parameters described in the section LMS Custom Parameters.





Please make sure to check the option "Send user email to tool provider" in the "Security Settings" section as shown below.



Figure 47: Security Settings

Once all settings are done, press [Save] and proceed to create a widget for the students.



3.3.3. Create a Widget

To create a widget, please proceed as follows:

• Click "Select a course..." and select the desired course from the drop-down menu.

Ġ 🛛 Scantron		
Content Developer	Brightspace Admin Training - BAT	-)=
Manage External	Brightspace Developer Course - BrightspaceDeveloperCourse	丰
	Brightspace Instructor Training - BIT	丰
New Link	Brightspace Learner Training - BLT	-311
	English 1101 - 1101-ENG	-)=
Title	Health & Safety - 100HS	-)=
	Leadership 101 - 101-LDR	-)=
Scantron Class Cl	Physics 1202 - 1202-Physics	-)=
	Color Only and in a CO	- New Y

Figure 48: Select Course

Select the "Edit Course" menu from the top navigation bar. Then select "Widgets".







Select "Create Widget" under "Manage Widgets"

Content External Learnin	ng Tools (LTI) Assessment	ts ✔ Course Tools ✔
Homepages Widge	ets	
Create Widget		
Custom Widgets System	m Widgets	
Custom Widget Li	st	20 v per page
Name 📥	Actions	
My Class Climate Cou	urse Evals 🎐 🍵	
		20 🗸 per page

Figure 50: New Widget

Use the appearing tabbed panel to configure the new widget, following the steps described below.

In the "Properties" tab, enter a name in the mandatory "Name" field and optionally a description in the description field.

I Preview	Widget		
Properties	Release Conditions	Content	
Edit Wic	lget Properties		
Name*	nge I		
My Surve	y Dashboard		
Description			

Figure 51: New Widget Properties



Open the "Content" tab where the content can be entered with the help of a WYSIWYG type editor.

Add a quick link with the editor's "Insert Quicklink" button.

Edit Widget					
My Survey Dasł	hboard				
Preview Widget					
Properties Release	Conditions Conte	nt			
Widget Conter	nt				
Contents					
P	aragraph V B	<i>I</i> <u>∪</u> ▼ = ==	Font Fami	✓ Size ✓	- (* <u>μ</u> - Σ

Figure 52: Insert Quick Link

In the pop-up dialog, select the category "External Learning Tool"

🏠 ∥ Scantron Course 3 ⊨ 🗸	Insert Quicklink	× Scantr
Content External Learning Tools (LTI) A	Course Materials	
Edit Widget	Checklist	>
My Survey Dashboard	Content	>
	Course File	>
🖹 Preview Widget	Discussions	>
Properties Release Conditions Conter	Dropbox	>
Widget Content	🗳 External Learning Tools	>
Contents	? Quizzes	>
Paragraph V B Z	Cancel	

Figure 53: Insert Quicklink – Step 1





Select the tool added previously.

3 : 🗸	Insert Quicklink >	<	7	R
s (LTI) As	Link Name			
	External Learning Tools			
	🖆 Scantron Class Climate			
	Create New LTI Link			
s Conten	Manage External Tools (Opens in a new Tab)			
	(•		
• B I	Cancel	1.		•

Figure 54: Insert Quicklink – Step 2

After having inserted the link, click the "Edit HTML Source" button at the bottom of the editor.

Widget Co	ntent							
Contents								
<u>*</u> @ <u>*</u>								
	Paragraph V	BI	<u> </u>	** E ·	Font Fami	Size V	· · · ·	•••
Seantran Clas	- Climetel							
Scantron Clas	<u>s climate</u>							

Figure 55: Edit HTML Source



This will bring up another window with the HTML content of the widget that looks something similar (in plain text):

anything

Copy the string between the quotation marks after "href=" part of the content (bold): anything

Replace the whole content with:

<iframe src="" width="100%" style="height: 50vh;"></iframe>

Insert the previously copied string between the quotation marks after "src=", so the resulting content looks similar to:

<iframe src="/d2l/common/dialogs/quickLink/quickLink.d2l?ou={orgUnitld}&type=lti&rCode=PNDevServe-3906&srcou=6756" width="100%" style="height: 50vh;"></iframe>

Click "Update" after finishing the content editing.

The editor's content will change from a link to a box (the widget will not work at this point). Click "Save" to save the new widget.



3.3.4. Add a Widget to the Course Homepage

To add a widget to the homepage of a course, proceed as follows:

Select the course from the top menu bar "Select a Course...", and click on the "Edit this homepage" button.

Content External Learning Tools (LTI)	Assessments 🗸	Course Tools 🗸
Edit Homepage		
Name*		
My homepage		
Description		
Trees		
Type		
Widget-based 🗸		

Figure 56: Edit Homepage





At the bottom of the page, click [Add Widgets] to add a widget to the homepage.

Description		
Type		
Widget-based		
Header		
Include homepage head	er	
{OrgUnitName}	Restore Default Header Text	
What replace strings can I Layout Basic Two panels Change La	ise in a custom title? : one large panel on the left and one smaller panel on the rig	;ht.
Widgets		
Widgets		

Figure 57: Add a Widget to the Homepage





Select the widget from the dialog, and then click "Add".

Content External Learning Tools (LTI)	Assessments 🗸 🛛 Course Tools 🧹
Create Homepage	Add Widgets ×
Name*	Filter By: System Widget Custom Widget
Enter a Name	
Description	1 items selected. Clear Selection
Enter a Description	My Class Climate Course Evals
	My Survey Dashboard
Туре	
Widget-based 🗸	
Header	 1 / 1
Include homepage header	Add Cancel
{OrgUnitName} Res	
What replace strings can I use in a custor	m title?

Figure 58: Select the Widget

Save your changes.

A box labelled "Scantron Class Climate" will now appear on your course homepage.

Please note that it is recommended to use the homepage of the system and not a particular course page for the widget.



3.3.5. Brightspace Sample Screenshots

Class Climate LTI Integration in Brightspace:



Figure 59: Student View

B brightspace Design Technology	Â	<u>م</u>	Class Climate Instru	uctor 👸
Content External Learning Tools (LTI) Assessments \checkmark Course Tools \checkmark				
Design Technology				
Class Climate Surveys 🗸				
My Survey Dashboard			Class Clim	Iate [®] Brack system
Design Technology 06-AD-2734		Current Response: 5 of 40	13 % in 08 02	Closes 6 Days (31/2017 at 5:05:00 pm
Design Projects 03-AD-2835		Final Response: 395 of 478	83 %	iew Report
Introduction to Programming for Architecture and Design 07-AD-3835		Current Response: 82		

Figure 60: Lecturer View



3.4. Canvas

To connect Class Climate and Canvas via LTI, a new app has to be added and configured in Canvas. In the following chapters, the relevant steps are described.

You have two ways to add the app in Canvas.

- **Manual Entry**. LTI link will need to be added manually to each course as a module.
- XML. LTI link will be added as a course navigation.

3.4.1. Adding a new App

Log in to the Canvas administrator interface.

Select "Admin" from the left side panel, then select one of the managed accounts.



Figure 61: Administrator's Managed Accounts

Go to menu entry "Settings" and then select the tab "Apps". Click the button "View App Configurations" to reach the management section of external tools.





	Class Climate Temp > Settings						
Account	Courses	Settings Quotas Notifications Admins Announcements	Reports Apps Feature Options				
(Statistics	External Apps	Manage App List View App Configurations				
Admin	Permissions	Anns are an easy way to add new features to Canvas. They can be added to	individual courses or to all courses in an account. Once				
	Outcomes	configured, you can link to them through course modules and create assignm	ents for assessment tools.				
Dashboard	Rubrics	See some LTI tools that work great with Canvas.					
印	Grading	-					
Courses	Question Banks	All Not Installed Installed	Filter by name				
l∰1	Sub-Accounts						

Figure 62: External Apps

Click the button "Add App" to add a new External App.

ATA PAR	Class Climate Temp > Settings						
Account	Courses Users	Settings Quotas Notifications Admins Announcements Reports Apps Feature Options					
<₹	Statistics	External Apps View App Center					
Admin	Permissions	Apps are an easy way to add new features to Canvas. They can be added to individual courses, or to all courses in an account. Once					
e constante a constante	Outcomes	configured, you can link to them through course modules and create assignments for assessment tools.					
Dashboard	Rubrics	See some LTI tools that work great with Canvas.					

Figure 63: Adding new App



3.4.2. Editing External App

Apps are an easy way to add new features to Canvas. They can be added to individual courses, or to all courses in an account. Once configured, you can link to them through course modules and create assignments for assessment tools.

This section contains the mandatory properties of the tool:

- Name: e.g "Class Climate Surveys"
- Consumer Key: "12345"
- Shared Secret: e.g. "secret", defined in the Class Climate menu "Interfaces and Plug-ins / LTI[®] Interface" (see above chapter 2.1)
- Configuration Type: Select "Manual Entry"
- URL: Customer specific URL to the Class Climate server, e.g. https://<hostname>/classclimate/customer/lti/lti_provider.php
- Domain: n/a
- Privacy: Select "Email only"
- Custom Fields: You may add one or more of the parameters described in the section LMS Custom Parameters.
- Description: n/a

Please note, that the URL should be the IP or hostname of your Class Climate system and must be a HTTPS URL without any parameters similar to this:

https://<hostname>/classclimate/customer/lti/lti_provider.php

Once the settings are done, press "Submit".

The Canvas connector (LTI tool) is now configured and can be added to the course pages.





Add App		×
Configuration Type		
Manual Entry		•
Name		
Name		
Consumer key	Shared Secret	
Consumer key	Shared Secret	
Launch URL		
Launch URL		
Domain	Privacy	
Domain	Anonymous	*
Custom Fields		
Custom Fields		
One per line. Format: name=value		
Description		
Description		
		1.
	Cancel	Submit

Figure 64: Editing External Tool



3.4.3. Adding an App to a course

Scantron Class Climate Learning Tool can be added to any courses by clicking on the name of the course.

ATA Pita Naf	Sample 1	
	Home	Recent Activity in Sample 1
Account	Announcements	No Decent Messages, You don't have any message
	Assignments	<i>i</i> courses you'll see this stream fill up with messages
Admin	Discussions	and other users, etc.
	Grades	
Dashboard	People	
•	Pages	
Courses	Files	
Ê	Syllabus	
Calendar	Outcomes	

Figure 65: Selecting course for adding external tool

After selecting the course, click on "Modules" on the side bar. Here you can add the external tool to one of the Modules.

Select "Add Content" in the "Module Options" dropdown menu at top right.

ATA Pina Nav	Sample 1 > Mo	dules	
	Home		View Progress + Module
Account	Announcements Assignments Discussions	- Assignments	a + ¢-
	Grades	III O pts	<u>د</u> ف
	People	II De Homework 1	o ÷-
Courses	Files	ii d ^o Class Climate	& \$÷
Calendar	Outcomes		
Inbox	Quizzes Modules		
	Conferences		

Figure 66: Adding content to a module





Choose "External Tool" from the list.

ianmont	- to Accignments	
Ignment	▼ to Assignments	
ignment z	th this module, or add an assignment t	by selecting "New Assignment".
tent Dage		
cussion		
t Header		
ernal URL ernal Tool		
n: Don't Indent	•	
	ignment ignment z thent Page cussion t Header ernal URL ernal Tool n: Don't Indent	ignment v to Assignments ignment z intent Page cussion t Header ernal URL ernal Tool n: Don't Indent v

Figure 67: Selecting External Tool to add

Select "Class Climate Surveys" and click on button "Add Item" to finish the process and to add the chosen external tool to your course/module.

Add	d Item to Assignments		;
Add	External Tool • to Assi	gnments	
P Se module	elect a tool from the list below, or enter a URL for an exte le.	ernal tool you already know is configured with Basic LTI to add a link to it to this	
1	Class Climate		
	No benes Ibeldoeld (xP3)		
	No farmy Residence (Maria)		
	Names and A new second sectors.		
	No herein hereiten (**)		
	0.0 magnitum (L1)		
URL:	: https://uat2.classclimate.scantrc		
Page	e Name: Class Climate		
		Cancel Add I	terr

Figure 68: Adding Scantron Class Climate tool

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3.4.4. Configuring the tool as a course level left-hand menu item

With the aid of a configuration XML file, the tool can be used as a course level left menu navigation item, bypassing the need for more segmented usage of the tool.

A different setup method is required for this functionality.

By following the steps described in chapter 4.1, the dialog for adding the external tool can be accessed.

By selecting **Paste XML** from the Configuration Type dropdown list, the dialog will be accommodated to accept the XML configuration. The LTI tool can be added by clicking the **Submit** button.

×			
•			
Shared Secret			
secret			
<pre></pre>			

Figure 69: Adding the Class Climate LTI tool with course level navigation



Below is the sample XML definition you can use to create the course navigation link.

<?xml version="1.0" encoding="UTF-8"?>

<cartridge_basicIti_link xmlns="http://www.imsglobal.org/xsd/imslticc_v1p0"

xmlns:blti = "http://www.imsglobal.org/xsd/imsbasiclti_v1p0"

xmlns:lticm ="http://www.imsglobal.org/xsd/imslticm_v1p0"

xmlns:lticp ="http://www.imsglobal.org/xsd/imslticp_v1p0"

xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation = "http://www.imsglobal.org/xsd/imslticc_v1p0 http://www.imsglobal.org/xsd/lti/ltiv1p0/imslticc_v1p0.xsd

http://www.imsglobal.org/xsd/imsbasiclti_v1p0 http://www.imsglobal.org/xsd/lti/ltiv1p0/imsbasiclti_v1p0.xsd

http://www.imsglobal.org/xsd/imslticm_v1p0 http://www.imsglobal.org/xsd/lti/ltiv1p0/imslticm_v1p0.xsd

http://www.imsglobal.org/xsd/imslticp_v1p0 http://www.imsglobal.org/xsd/lti/ltiv1p0/imslticp_v1p0.xsd">

kilaunch_url>https://<hostname>/classclimate/customer/lti/lti_provider.php</blti:launch_url>

<blt::title>Class Climate Survey Evaluation</blt::title>

kiti:description>Allowing access to your courses evaluations</blti:description>

<lticm:property name="privacy_level">public</lticm:property>

<lticm:options name="course_navigation">

<lticm:property name="enabled">true</lticm:property>

<lticm:options name="custom_fields">

<lticm:property name="instructor_show_report">1</lticm:property>

</time=" instructor_show_past_surveys_for_n_previous_periods">0</timeproperty>

<lticm:property name="learner_show_completed_surveys">1</lticm:property>

<lticm:property name="order_by_survey_close_date">1</lticm:property>

<lticm:property name="instructor_show_export">1</lticm:property>

<lticm:property name="learner_load_instructor_images">1</lticm:property>

</lticm:options>

</lticm:options>

</blti:extensions>

</cartridge_basicIti_link>

The following values need to be modified in the XML to acheive the desired functionaliy:

- <blti:launch_url>https://<hostname>/classclimate/customer/lti/lti_provider.php</blti:launch_url > This field needs to contain the customer specific Class Climate URL
- <blti:title>Class Climate Survey Evaluation</blti:title> Title of the external tool
- <blt:/description>LTI tool</blt:/description>
 The description of the external tool. This can be modified after the tool has been
 added within the tool configuration.
- <lticm:options name="custom_fields"></lticm:options>

Method used to import the desired custom parameters.

Other values should not be modified in the XML configuration to ensure the validity of this.



After the tool has been added with a valid configuration, an additional left menu entry will be available for the external tool.

3.4.5. Canvas Sample Screenshots

Class Climate LTI Integration in Canvas:

	E Design > Modules > Design fundamentals				
	Home	My Survey Dashboard		Class Climat	C K SYSTEM
Account	Discussions	Environmental Design	<u>,</u>	Closes in 2 Days	0
Dashboard	People	01-AD-2634	PhD Marie-Christine Jefferson	08/27/2017 at 05:20:00 pm	•
Courses	Syllabus	Design Technology 0E-AD-2734	Emilia Thompson	Closes in 6 Days 08/31/2017 at 05:05:00 pm	•
Calendar	Modules Conferences	History and Theory of Architecture 02-AD-2734	Mario Fernandez	Submitted	0
員 Inbox	Collaborations	Structure, Materials and Forming Techniques 04-AD-2636	Dean McPherson	Data available	
?		Did You Know? Vour survey results are anonymous! Every survey has a minimum number of students who must respond in order for instructors to receive a summary report. This further prof Ver encourage you to participate and help your university understand instructional effectiveness and plan continuous improvement initiative	ects your anonymity. ves.		

Figure 70: Student View

	Design → Mo	dules > Design fundamentals			
	Home	My Survey Dashboard		Class Cl	imate [®] 1 FEEDBACK SYSTEM
Account	Announcements Assignments Discussions	Design Technology ^{06-AD-2734}	Current Response: 5 of 40	13 %	Closes in 6 Days 08/31/2017 at 05:05:00
Courses	Grades People	Design Projects 03-AD-2835	Final Response: 395 of 478	83 %	View Report
Calendar E Inbox	Files Syllabus	Introduction to Programming for Architecture and Design 07-AD-3835	Current Response: 82		
?	Outcomes Quizzes				
	Modules Conferences				
	Collaborations Settings				

Figure 71: Lecturer View

4. Troubleshooting

In this section, we have listed some common errors and issues along with suggested solutions.

4.1. Insecure content

Using a SSL certification is a requirement for the LTI integration. Please contact your Server administrator for its implementation or configuration. If you are using a Load balancer, you will need to make sure the communication between the 2 systems remains encrypted with SSL within or outside your network.



Figure 72: Insecure content

4.2. Invalid Request Error

Sample 1 > Sample Course 1				
	Invalid request.			
Home				
Announcements				
Assignments				
Discussions				
Grades				

Figure 73: Invalid request

This type of error is typically displayed in case of mismatched information in the configuration of the integration or an issue with the communication across your network.

We suggest to review the value used for your shared secret on both systems.

Additionally, you might need to review the communication settings. If you are using a Load balancer, you will need to make sure the communication between the 2 systems remains encrypted with SSL within or outside your network.



4.3. User could not be determined

Mv Survev	Dashboard
	Buomboura

(h) Class Climate[®]

The user could not be determined.

Figure 74: User could not be determined

This message is displayed when the system is not able to determine which information should be provided. Email addresses and LTI roles are used to identify which dashboard board to populate.

Please verify if the instructor or student account exist in Class Climate. Double check the email address and confirm the email value is not assigned to multiple accounts in Class Climate.

Please note: If an instructor or secondary instructor is stored in more than one Class Climate subunit with the same email address, then the survey data can only be displayed in the instructor's LMS account if you are using External IDs to connect the instructor accounts in Class Climate. If you do not use External IDs, then the data will not be displayed!

For more information, see chapter "Instructor Settings".

4.4. User Role undefined

This message is typically displayed when the LTI roles could not be determined. Ensure the account used is either a LMS instructor or Learner to display the desired dashboard.