



**CPS™ –WebCT/Vista  
Integrated Feature**

## CPS™-WebCT/Vista Integrated Feature

This white paper is for informational purposes only, is subject to change without notice, and should not be construed as offering any future product commitments on the part of eInstruction. While significant effort has been made to ensure the accuracy of the information, eInstruction assumes no responsibility or liability for any errors, omissions, or inaccuracies contained herein.

All rights reserved. CPS™ is a trademark of eInstruction. All other third-party product and company names may be the trademarks of their respective owners.

---

eInstruction  
Global Headquarters  
308 N. Carroll Blvd.  
Denton, Texas 76201  
410.381.6688  
**[www.einstruction.com](http://www.einstruction.com)**

## CPS™-WebCT/Vista Integrated Feature

Looking for a way to integrate classroom performance and WebCT/Vista? eInstruction's CPS™-WebCT/Vista Proxy Tool may be the answer. This Proxy Tool integrated feature uses software from WebCT/Vista with the Classroom Performance System™ (CPS™) from eInstruction, the world leader in interactive classroom instructional tools.

Instructors will finally be able to use the best of both worlds—instructors can engage their students in a lesson and record student responses then upload the information to WebCT/Vista for students and instructors to review online. Your student data will remain safe: eInstruction uses only secure servers for transfer of data between WebCT/Vista and CPS™.

### CONNECT THE CLASSROOM TO HOME

The Proxy Tool integrated feature allows instructors to more effectively engage their students both in the classroom, using CPS™, and at home, when students use WebCT/Vista. The Proxy Tool is easy to install, and our Technical Support team is ready to assist you in any way we can. In addition, the CPS™ user-friendly interface allows instructors to quickly and easily use the link. Using CPS™, instructors will be able to view the following on WebCT/Vista:

- **Individual performance results**— CPS™ records performance data for each student in class. Individual student data can be accessed by the student via WebCT/Vista.
- **Attendance**— Instructors can keep attendance records, and even distribute bonus points to students who regularly attend class. Students will be able to track their attendance progress through WebCT/Vista.
- **Grade book**— Instructors can upload assessment data captured using CPS™ to the WebCT/Vista grade book.

### USE YOUR EXISTING SOFTWARE

The Proxy Tool integrated feature requires very little additional software. The following components are necessary for you to use the Proxy Tool integrated feature.

**WebCT/Vista.** This tool is compatible with Blackboard Vista 8/CE8 and works with your instructor's existing software. The instructors will not need to learn a new software program.

**WebCT/Vista Proxy Tool 3.14.** eInstruction will provide you with the latest proxy tool version, 3.14.

### CPS™-WebCT/Vista INTEGRATED FEATURE REQUIREMENTS

- **WebCT/Vista**— The integrated feature supports WebCT/Vista versions 3 and higher. The feature is also compatible with WebCT Campus Edition 6.
- **WebCT/Vista Proxy Tool**— eInstruction will provide you with the latest version, WebCT/Vista Proxy Tool 3.14.
- **Classroom Performance System™ (CPS™)**— The feature works with CPS™ for Windows® version 5.62.x or higher, and with CPS™ for Mac version 2.5.x or higher.

You will also have a Technical Support team ready to assist you Monday through Friday from 6:00 AM to 6:00 PM (MST). You can reach Technical Support by calling **888.333.4988** (for outside the U.S. dial 480.443.2214) or by visiting [www.einstruction.com/support](http://www.einstruction.com/support).

## CPS™-WebCT/Vista Integrated Feature

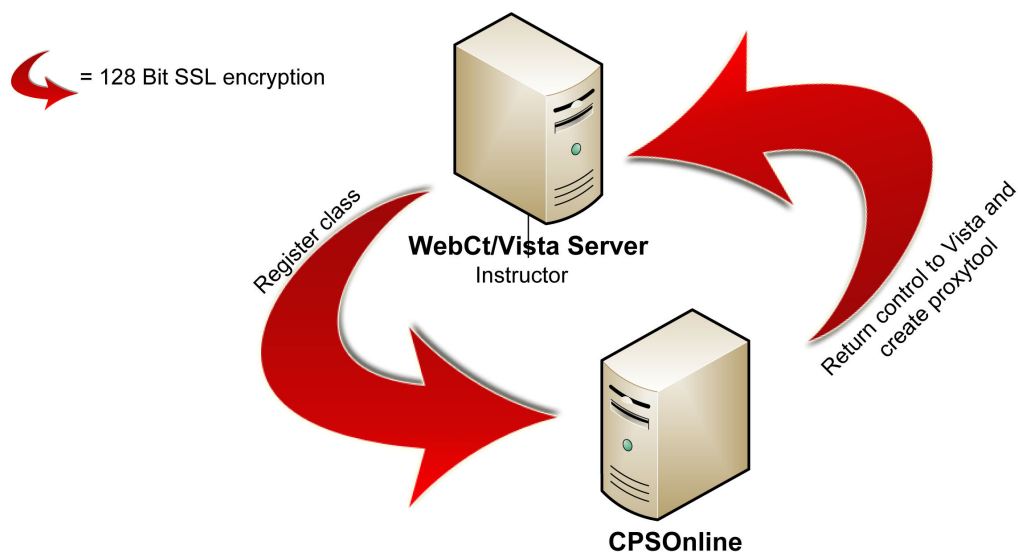
### Classroom Performance System™ (CPS™)

CPS™ is interactive software created by eInstruction that allows instructors to engage their students in the classroom and record student responses, which can later be analyzed by the instructor. Instructors can use CPS™ with either a PC or a Mac.

- **PC Users**– Your instructors will need to have CPS™ 5.62.x or higher for Windows® installed on their computers. They can download the latest version, CPS™ 6.70, for free from our website, [www.einstruction.com/downloads](http://www.einstruction.com/downloads).
- **Mac Users**– Your instructors will need CPS™ 2.5 for Mac or higher installed on their computers. Download the latest version of CPS™ from our website.

### CREATE A SECURE LINK

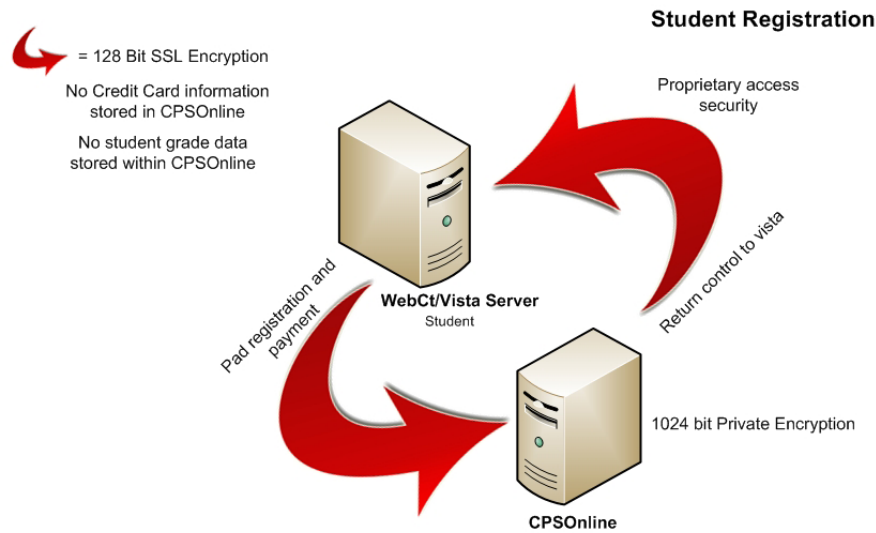
The Proxy Tool creates a link between CPS™ and WebCT/Vista using WebCT/Vista's PowerLinks feature and the CPS™ online component, CPSONline.



Class registration is simple when using the proxy tool. Once you have the Proxy Tool enabled through WebCT/Vista's PowerLink, you can customize the settings for specific colleges, departments, or instructors.

Instructors log on to WebCT/Vista and enable the CPS™-WebCT/Vista link using the proxy tool button (once you've set this up). See the IT Administrator's Guide for the Proxy Tool on how to set this up in your version of WebCT/Vista.

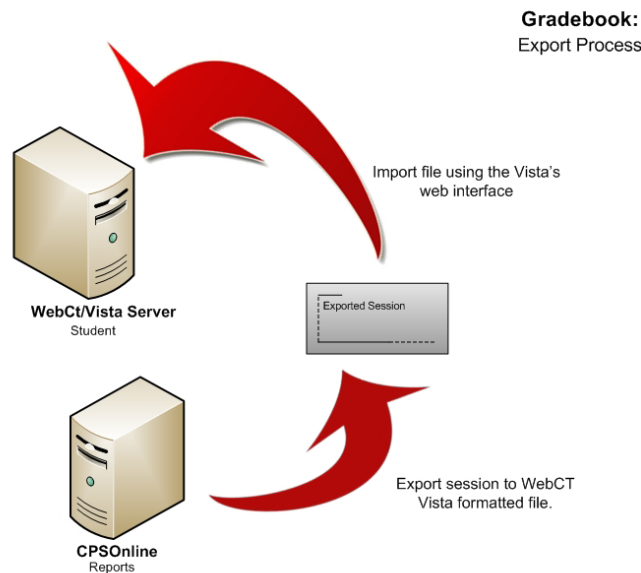
CPS™-WebCT/Vista Integrated Feature



**Figure 2. Connection between WebCt Vista and the CPSONline during Student Registration.**

Class registration is simple when using the building block. Once you have the CPS™ Connection Building Block enabled through Blackboard’s Building Blocks feature, you can customize the settings for specific colleges, departments, or instructors.

Instructors log on to Blackboard and enable the CPS™ Connection link using the Register Class button (once you’ve set this up). See the IT Administrator’s Guide for the CPS™ Connection Building Block on how to set this up in your version of Blackboard.



**Figure 5. Data flow from exported WebCt/Vista Report file.**

When instructors use CPS™, they can choose to connect to their class online. After the instructor logs in, CPS™ communicates with WebCT/Vista and extracts the class roster. The entire class roster, including student names and the student response device ID numbers, will be available in CPS™. As new students register for the class, the Proxy Tool will continue to update the class roster as the instructor logs in. The student information will not be maintained within CPSONline for security purposes.

CPS™-WebCT/Vista Integrated Feature

### **PROTECT STUDENT DATA**

The connection between CPS™ and CPSONline, and the connection between CPSONline and WebCT/Vista are secure. The Proxy Tool uses port 80 (open by default) and a secure port, port 443, to bridge the connection.

#### **CPS™ –CPSONline Connection**

CPS™ and CPSONline use SSL encryption, used by banks and financial institutions worldwide, to ensure that all data is transmitted securely. The CPS™-CPSONline connection uses public key cryptography encryption with a 128 bit public key and transmission and a 1024 bit private key on the server(s).

Once the information is passed to CPSONline, the information remains secure. Our site offers complete redundancy in power, HVAC, fire suppression, network connectivity, security, drive arrays, web servers, and database servers. We have multiple power grids driven by TXU electric, multiple Liebert and PowerWare UPS battery backup power, and onsite permanent generator power. Our HVAC systems are a combination of glycol, chilled water, and condenser units by Liebert and Data Aire to provide redundancy in cooling coupled with 6 managed backbone providers.

Twelve third-party backbone providers are available via cross connect. Fire suppression includes a pre-action dry pipe system including VESDA (Very Early Smoke Detection Apparatus) along with over 600 smoke detectors. Onsite security is also a concern when using key card access with CCTV for maximum security. All visitors must check in and out of the facility. The goal is to provide maximum redundancy in every facet of the datacenter environment to facilitate 100% uptime for your school's data.

As far as data security, we have built in security from the start. The students' data is never on any server that is accessible on the web. Our databases are accessible only via database-specific NIC cards utilizing non-routable IP addresses.

Our sites use a combination of hardware firewall solutions, as well as multiple network separations. All security appliances feature very low latency, high throughput IPSec encryption.

When the information passes from CPSONline to WebCT/Vista, the only student information that is retained in CPSONline is an encrypted ID key for each student. *No student performance data, ID information, or grades will be maintained in CPSONline.*

#### **Credit Card Purchasing**

When students register for their class in WebCT/Vista, and pay for their class access, all credit card information is also kept secure. VeriSign provides the merchant account processing for all credit card transactions, as well as SSL certificates for the website. In addition, eInstruction is CISPcertified by Visa and MasterCard.

*For security purposes, student credit card numbers, card expiration dates, or student contact information will not be stored in CPSONline.*

eInstruction works with each institution to create the solution that best fits their needs. Some institutions choose to purchase CPSONline class access for their students.

CPS™-WebCT Integrated Feature

## SECURITY INFORMATION

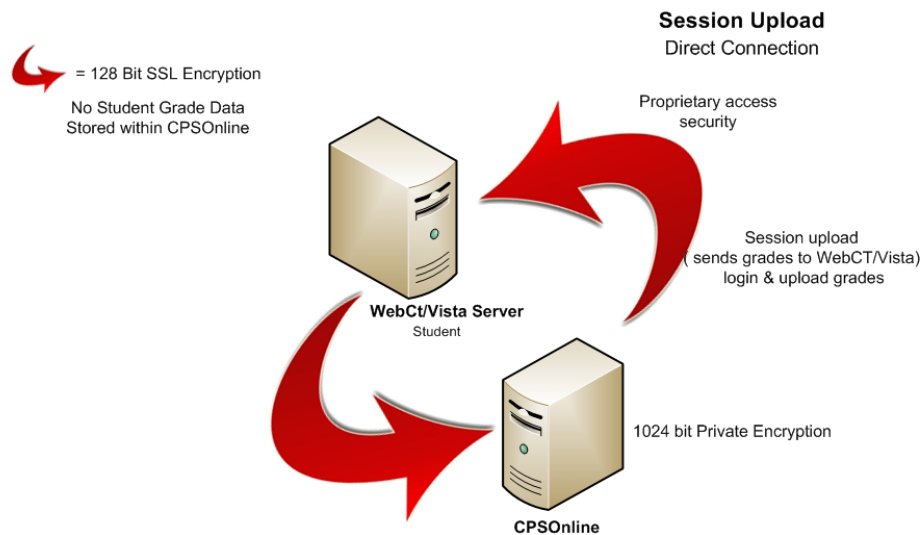
**Class Registration–** 128-bit SSL encryption connection between CPS™ and CPSONline, with a 1024-bit private key for data while it passes through CPSONline.

**Student Registration–** Proprietary access security and a 128-bit encryption connection between CPSONline and WebCT Vista.

**Sync Process–** 128-bit encryption connection as data flows from CPS™ to CPSONline to WebCT and back again. Data is protected by a 1024-bit private encryption key while moving through CPSONline and protected by proprietary access security as it enters WebCT.

## UPLOAD STUDENT DATA

When instructors open CPS™, they can choose to log in to their CPSONline class. The logon simply opens the connection between CPS™ and WebCT, allowing instructors to upload student performance data.

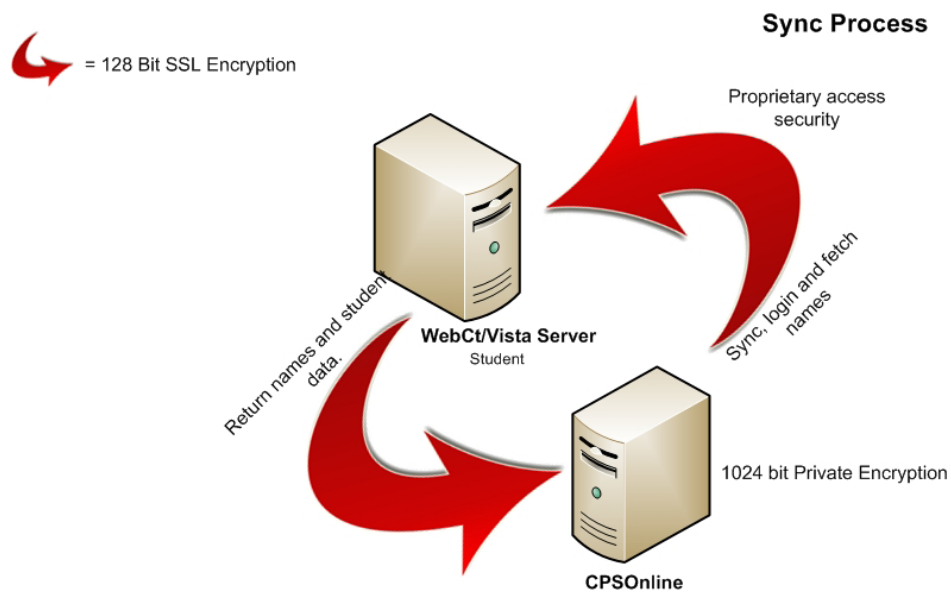


**Figure 5. Data path from CPSONline and WebCt/Vista directly after sending a session.**

The CPS™ session upload, which can be done automatically after an assessment or at any other time through the CPS™ Reports tab, is sent to WebCT Vista via a 128-bit SSL encrypted communication.

When instructors choose not to upload their session data immediately after a session, or are not connected to the internet while they are teaching, they can always upload data at a later date using the CPS™ Reports tab.

## CPS™-WebCT Integrated Feature



**Figure 3. Data path from CPSONline and WebCt/Vista.**

The instructor opens the **Reports** tab in CPS™. The instructor then completes the following steps to export the session and upload it to WebCT:

1. Select the session you would like to export.
2. Click the **Generate** icon from the **Reports** tab. The CPS™ Reporting window appears.
3. Choose **WebCT** Export (last report type) from the list of available reports.
4. Click **Preview**. Your session will be exported to Microsoft Excel or to your default spreadsheet program.
5. Save the WebCT Export report to your computer.
6. Log on to WebCT.
7. Open your class to the Grade Book view.
8. Click the **Import from Spreadsheet** button.
9. Use the **Browse** button to browse through your computer to find your WebCT Export report.
10. Click **Upload** to upload the file.