

Student Teacher Portal using Microsoft SharePoint Technology



David B. Haver
Managing Consultant

The Speaker

- David B. Haver – Managing Consultant
- Power User/Administrator since 2001
- Architect since 2008
- Email – dbh@tcsc.com
- Live, LinkedIn, Facebook, Twitter, etc.



The Company

The Computer Solution Company

- Founded in 1981 and based in Richmond, VA
- Microsoft Gold Managed Partner
- Consulting Services and Software Product Development
- Consulting Services has been specializing in SharePoint services for over six years (since v1)
- Consistently recognized for quality of technical services
 - Microsoft Worldwide Partner Conference Technology Innovation Award Finalist
 - Microsoft Mid-Atlantic Teamwork Award
 - Microsoft Mid-Atlantic Loyalty Award
 - Infineon Technologies' Technology Innovation Award

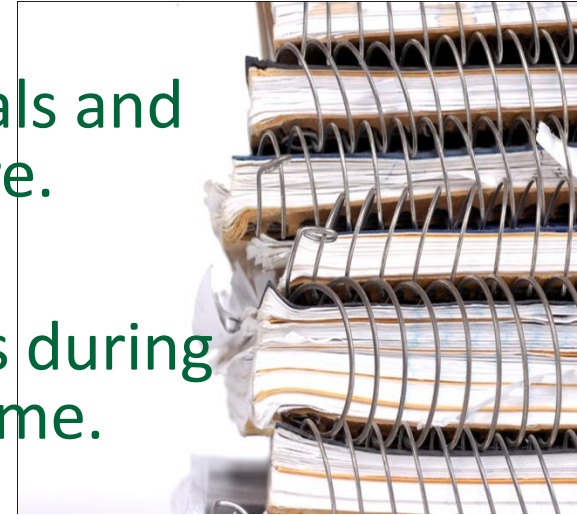


**Providing Microsoft-centric consulting, application
Development and work management solutions.**


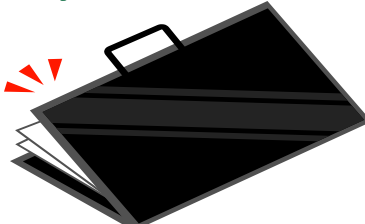
<http://www.tcsc.com>

The Problem...

- Students increasingly work with materials and assignments that are electronic in nature.
- Students need access to these materials during the school day and when they are at home.
- The school provides shared computer terminals for student use but they are difficult to maintain and secure.



The Problem...

- Student's using USB drives, disks & etc are open to data loss risks and virus delivery problems. 
- Students should have the ability to have a “portfolio” of work heading into college. 
- Teachers face many of the same issues that students face.



Extended Problem

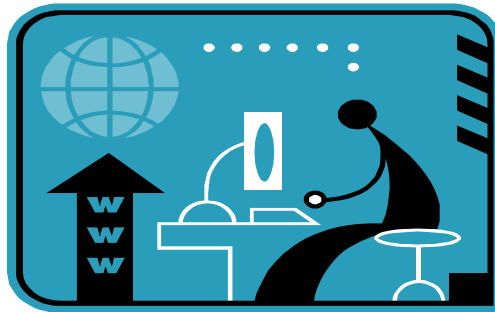


- Students should be able to collaborate with teachers, classmates
- Teachers should be able to store and share content that is applicable to the courses they teach
- Teachers and students should be able to work collaboratively in a workspace for a given course



Requirements...

- Web-based solution to make it accessible from school or home



- Secure storage for each student that cannot be shared between students and that exists for the students entire career



Requirements...

- Class areas where teachers can post schedules, assignments and materials
- Facilitate the submission of student work towards assignments in a secured manner
- Easy-to-use navigation system for students and teachers



Requirements...



- Automatic generation and maintenance of class site, teacher sites and student sites including access rights



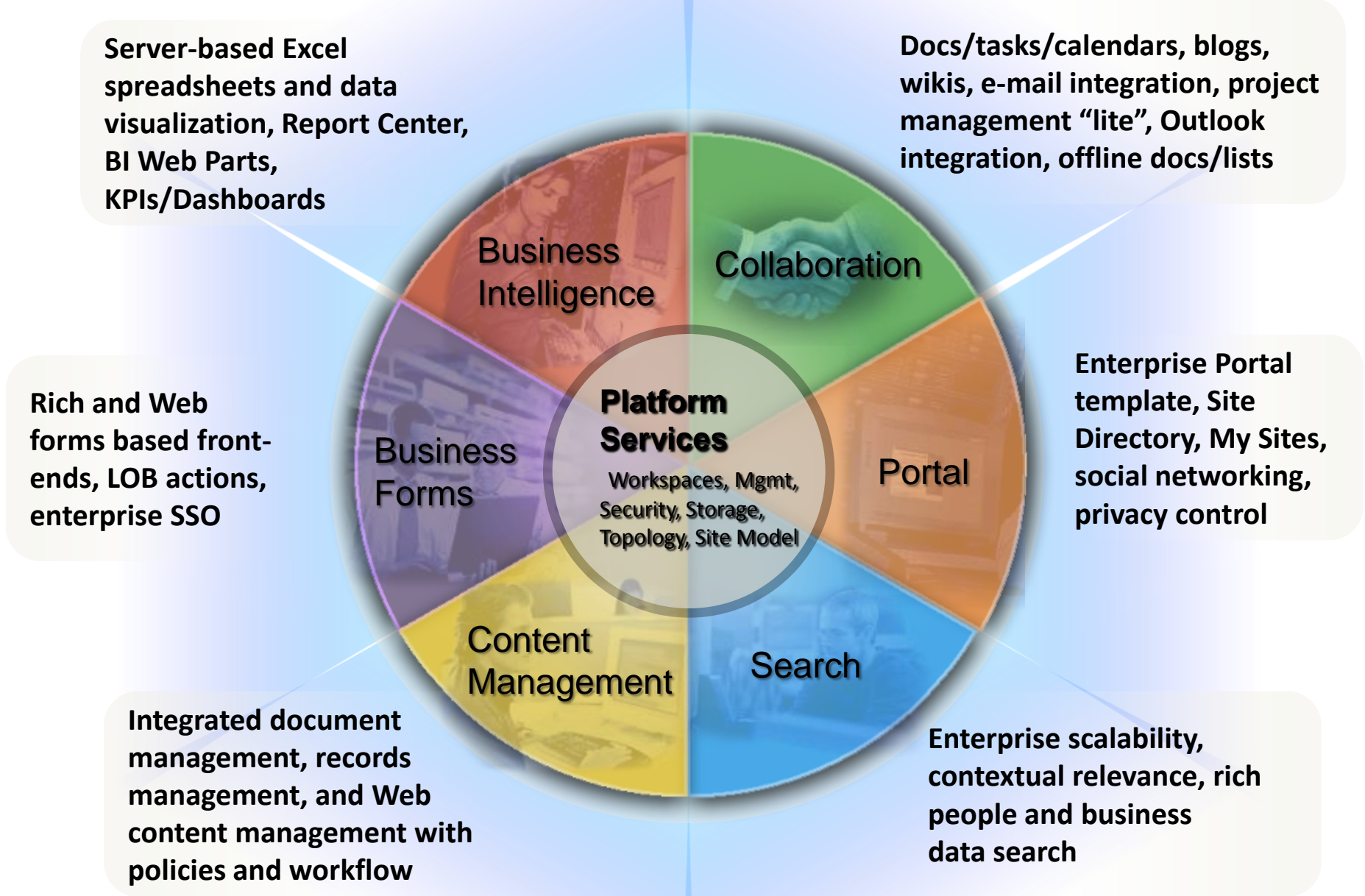
The Solution

- Microsoft Windows SharePoint Services
 - No Code Customizable Templates
 - Scalable and Secure Platform
 - Low Cost
- TCSC's Student/Teacher Portal Manager
 - Client/Server Based Application that is the engine to keep SharePoint up to date.

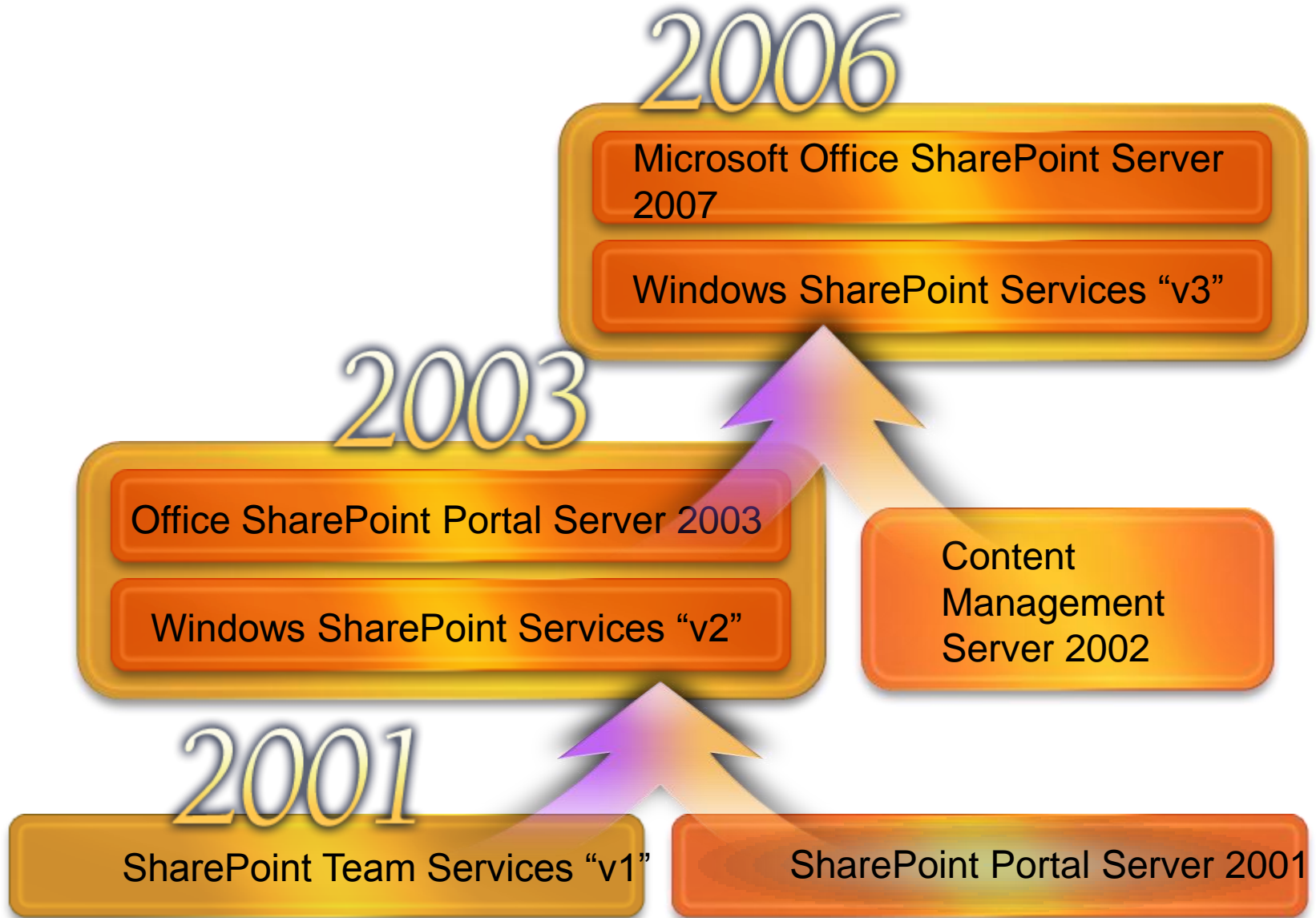


SharePoint Products and Technologies

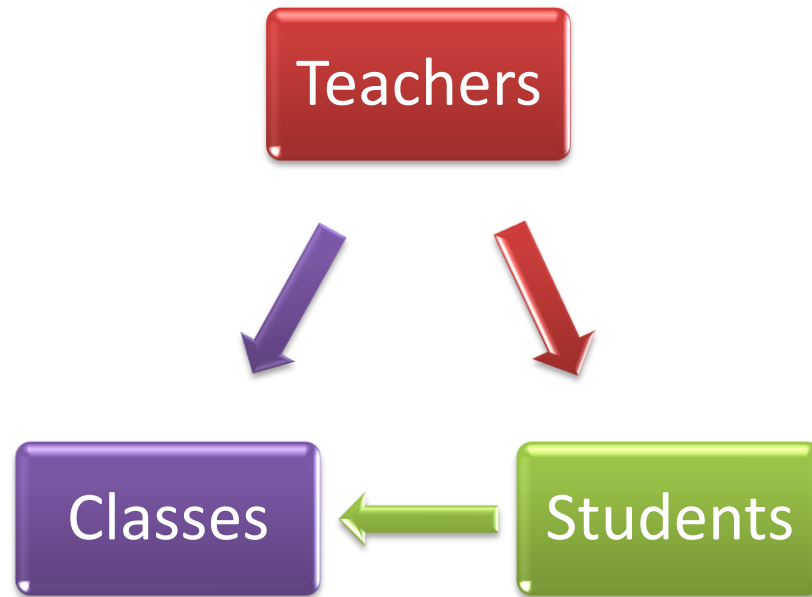
Microsoft Office SharePoint Server 2007



SharePoint Technology Convergence



The Demo



Features...

- Portal Manager...allows administrators to perform a variety of server-level functions to generate, regenerate, reset permissions on, and delete student, teacher, and class sites. The Portal Manager can use information from any existing Student Information System or can be maintained separately.
- Action Links...dynamically shows and hides links based on a user's role (teacher or student).
 - Add Shared Content (teachers only)
 - Add/Edit Widgets (teachers, students, classes)
 - Changing User Password (teachers, students)
 - Changing Student's Password (teachers only)
- Change Student Password...allows a teacher to change the password of any student that:
 - Has a valid login
 - Is an active student
 - Is currently enrolled in one of the teacher's classes



Features...

- Class Schedule Links...displays links to class or student sites, depending on what type of site the web part is located on, and how the web part is configured. For Teacher sites, links to that teacher's classes are displayed, and can be expanded to display links to all of the respective student sites that are enrolled in that class. For student sites, the web part displays links to all of that student's classes.
- Global Links...allows administrators to maintain a centralized list of hyperlinks using a single SharePoint list and have those links made available as part of the left-hand navigation menu of all Teacher, Student, and Class sites.
- My Student / Teacher Site Link...determines who the logged on user is and then looks to see if that person is an active teacher or student. If they are, the feature displays a URL link to their teacher or student site as appropriate. If the person is not an active teacher or student the feature is not displayed.



Features...

- Shared Content...allows teachers to share a document library or list from their teacher site to one or more of the teacher's class sites. This allows teachers to maintain their own library or list of information on their teacher site that can be used from year to year and across multiple classes. The feature allows students in the class to view content from the teacher site even though students do not have access to view the teacher site directly.
- Site Usage...uses a graph to display the amount of disk space a site is currently using. The graph is a horizontal bar chart, similar to a progress bar, and displays the disk space used as well as the maximum amount, as defined in the site quota for that type of site.
- Targeted Announcements...allows users to create announcements that can be targeted to specific schools, grades, districts, and school staff. The feature consists of an announcement viewer that can be added to district, school, teacher or student sites.



Features...

- Widgets...allows the user the ability to add web based “Widgets” to Student, Teacher, or Class sites. This style of web content has been popularized by the larger search portals like Yahoo!, Google, Live & MSN. Typically, these small chunks of web content are focused on aggregating news information, weather information, blogs & etc.



The Client



54,000+ Students

5,500+ Teachers

16,000+ Classes

80+ Schools



The Possibilities...

- A Parent Portal that provides access to student and class sites, Targeted Announcements, and access to grades.
- Closed System messaging for communication between students and teachers and maybe even other students.
- Online testing that is simple for teachers to create and could grade themselves.



The Possibilities Are Endless

