epazz

white
paper

BoxesOS
version 3.0

- **Seamless** Integration
- **Powerful** collaboration
- **IN-depth** Personalization
- **Enhance** Communication
- **One-Point** Secured Access and
- **Thoughtful** understanding

BoxesOS version 3.0 White Paper

Highlights

BoxesOS is an enterprise web portal infrastructure system for the higher education community.

- Turnkey solution
- Integration Services & Customization services included with initial solution
- Dell® Server is provided
- Designed to maximize communication and functionality for key stakeholders.
- Provides secure, Internet-enabled integration to administrative operating systems.
- The Open Enterprise Architecture allows the company's staff to create customized applications to BoxesOS™.
- Implementation within 12-16 weeks.

Overview

BoxesOS™ is a Web Infrastructure System (W I S) for the higher education community.   It is designed to maximize communication, functionality and operations for the key stakeholders (students, faculty, staff and alumni), providing one-stop access, secure, Internet-enable real-time integration to administrative operating systems. BoxesOS enhances stakeholders' experience with your institution; fostering relationships.

Connectivity among stakeholders can be immediately enhanced and administrative utility improved irrespective of whether they are on legacy platforms or recent ERP implementations (Peoplesoft, Oracle, SCT, Datatel and Others).

Think differently! Immediate user group utility followed by secure, administrative functionality, (instead of waiting to deliver user group utility until completion of upgrades) can cut over to new administrative platforms. BoxesOS allows the institution to start-up by implementing elegant web-enabled information dashboards for each stakeholder group. Functionality with administrative systems can be swiftly completed using connectors to legacy administrative platforms or enterprise resource planners (ERP). Administrative operating systems that require upgrading can be upgraded on a prioritized basis as desired, and easily linked to BoxesOS and its personal information system.

Epazz has significant years of experience in deploying enterprise level web base systems. Epazz BoxesOS has been five years in design and testing among more than tens of thousands of members of the five key user stakeholder groups to carefully incorporate desired design, features and functions. The highly-functional stakeholder information dashboard can be customized by individuals to meet their specific requirements. The implementation team will help customize the BoxesOS into the institution's requirements and network environment.

BoxesOS is a turnkey solution including software, integration services, customization services, maintenance services and hardware.

Some of its salient features are:

Web Portal Component

BoxesOS Web Portal Component is a gateway to all of the institution's online services and information resources. The Web Portal Component provides Personal Information System, which refers to the user's entire Epazz environment - the resources, information, graphics, color, layout, and organization - all of which are customizable. Web Portal Component makes it simple for institutions to create and deploy custom web applications with a common graphic user interface and connectivity to the back-end systems.

Administrative Content Management

BoxesOS Content Management Component provides an institute with enterprise level tools for creating, managing, organizing, archiving and sharing content. Content can be deliver in many forms such as web pages, emails, polls, documents, RSS, and hot news. Content Management Component enables staff members with little technical skills to create web pages without needing to know any HTML.

Web Site Management is the tool all institutes need to manage private and public web sites. This application allows for multiple individuals to change content on a web page without the need for programming knowledge. Web developers can create a style sheet and assign access levels for editing, adding, uploading and deleting of information.

Web Storage

File Manager

File Manager provides the end user with the storage space, the end user needs for assignments, Web sites and more. File manager has a built-in HTML Editor. The HTML Editor allows the end user to edit HTML files.

My Folders

My Folders is the private file storage of BoxesOS. This allows the end user to keep files secure on the Epazz server. User's can share files with others via Epazz Sharing.

<u>My Websites</u>

My Websites are the public sites the end users can use for online resumes, personal web pages and student's e-portfolios. My Websites provides an easy-to-use online HTML Editor. The end user can also use MS-FrontPage and Macromedia Dreamweaver.

<u>File Management</u>

File Management allows the institution to select the amount of storage space for each stakeholder group or individual user.

Central Repository
BoxesOS Central Knowledge Repository is a collection and indexing of shareable content. Central Knowledge Repository installs a server index application on the Windows 2003 platform to identify institute's current knowledge assets. All knowledge assets will be imported in the Dell Storage device. The server index application will import the knowledge assets into a temporary folder before moving into a main folder. The server index application will prompt the institution's administrators to add detailed information about the knowledge assets into the database by using a Web form. The institution would be able to group their knowledge objects by program, course, subject, topic, faculty members, users, content, date, etc.

Admission Campaign Management
BoxesOS Applicant Module provides institutions with a powerful tool for student recruiting. With Applicant module institutions are able to provide prospective students with personalized web pages. Prospective students will only view information, which fits in with their personal goals. The admissions staff will be able to view online applications, communication logs, and can send acceptance or rejection emails to students.

Alumni Place
BoxesOS Alumni Place Component provides a complete set of web services for alumni. Alumni department can post the newsletter to an online magazine. The alumni will be able to post messages to alumni forums. Epazz provides many ways for alumni to communicate with old classmates. Alumni Place provides an alumni locator. This locator helps administrators keep track of alumni contact information. Gift Giving is an e-commerce application that allows Alumni to use their credit cards to donate funds to their institution.

Communication, Calendaring, and Scheduling

ViewPoint is BoxesOS central communication, calendaring, and scheduling system. The enrich web applications provides the institution with extensive range of options. Communication system email web client and even an email server. Email applications provide all of the great features you would find on Yahoo! Email and Hotmail. ViewPoint provides a robust threaded discussion boards and chatting environment. ViewPoint provides each user with a personal calendar, which notifies users of scheduling conflicts and appointments priorities. ViewPoint makes it easy to create group calendars and public calendars. With ViewPoint scheduling system users are able to schedule group meetings together. The scheduling system will view each user's calendar to see the next available time and date the group can meet.

Learning Management System

BoxesOS My Courses is an extensive application for learning management, and e-learning. My Courses is a great tool for traditional courses and distance learning courses. My Courses is a powerful communication tool that can be effectively used by trainers and trainees to make information flow easy, clear and fast. My Courses provides a robust grade book, powerful authoring content tools, easy to use drop box, sharable folders, wide-ranging course calendar and many more features all design to provide customization to each institution, each instructor and each student.

Pathways Real-time Integration

Epazz Pathways is an integration suite for application enabling real-time connectivity with ERP and Legacy systems. Pathways integration suite allows for institutions to retrieve real-time data from ERPs and write data back to ERPs. Pathways provides a library of enterprise connectors and adapters accessing multi data sources in a single secure web platform. Epazz Pathways uses open data access technologies such as ODBC, OLE DB and JDBC. Pathways helps institutions be more flexible on their front-end application options.

Single Sign-on

BoxesOS uses Microsoft Active Directory Identity Management to accomplish single sign on. Microsoft Active Directory allows institutions to centrally manage and share user information. Active Directory also acts as the single sign on point for bringing systems and applications together. BoxesOS user management integrates with Active Directory. LDAP can then be used to easily read and write information from Active Directory. Active Directory can be used to store user mapping information, roles, and customization attributes.

Stakeholder Management

These are defined group of users (stakeholders) such as students, faculty and alumni. Administrators can create new stakeholders and assign rights to view the various tabs and boxes (functionalities) at the time of stakeholder creation. Once a stakeholder logs on and is authenticated, the tabs assigned for access appear dynamically in the browser client. For example, if access to the "Viewpoint" tab is granted, then it will be available for the stakeholders on the top menu; otherwise, it will not appear.

Security

The user views information and submits requests through a 128-bit SSL. Thin client "Web browser" displaying the BoxesOS screens, which is accessed through a link on the institution's Web site or by directly navigating through the URL (Uniform Resource Locator).

The user gains access to the Epazz BoxesOS through a login screen using their username and password. When a validated user (validated in Active Directory) is logging in for the first time, he/she will be assigned by a password generated from Epazz BoxesOS. The password will be sent by mail, which is extracted from Active Directory information. Then he/she can enter in BoxesOS using the same username and password after getting it from the mail. Hence for the user point of view the password is secured as it is transferred through mail. All the sensitive information like the password has to be saved in encrypted form. Hence nobody can view the password or any sensitive information just by opening the records.

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