

INTRODUCING xPERT eCAMPUS V4.0

The xPERT eCampus is a next generation learning platform that moves beyond simply administering training to building mastery.

With the eCampus you can rapidly develop blended learning programs that weave together e-learning courses with same-time web meetings, threaded discussions and coached e-assignments; and integrate the activities of learners, coaches and managers.

Creation and replication of programs becomes a matter of minutes, not months, and the fact that activities and multiple roles administered from one central dashboard make tracking simple.

Not just e-learning, it's eLearning ^{Plus}

Mastering new skills is often best done in collaboration with others - but this is exactly the piece that traditional e-learning leaves out - and a traditional LMS has no way to manage!

Real learning requires more than interaction with a piece of software – no matter how sophisticated. True learning requires the content you get from traditional e-learning *plus* interaction with peers and mentors, real-life application, feedback and the opportunity to practice.



Building on LMS capability

The eCampus is a three-tier J2EE platform built with Enterprise Java Beans that provides seamless integration with email, Live Meeting, MSN Messenger, and your HR data warehouse.

Used alone, the eCampus is a fully SCORM 1.2 conformant LMS that launches and tracks SCORM packages and maintains learning histories.

Alternatively, the eCampus can extend and enhance your current LMS by managing your blended learning programs with the same precision that the LMS manages content.



eLearning ^{Plus}

Traditional LMS approach

Experience: Learner comes to a website with a catalog of courses from which to choose.

Duration: Learning is short-term event: often a 1-2 hour course.

Interactivity: Defined as person-to-software.

Roles: The learner is the only person involved in learning, and the only person whose behaviors are monitored.

Assessment: Measured by performance against a set of pre-defined answers, such as multiple-choice quizzes or programmed simulations.

Collaboration: If present, limited to standalone threaded discussion or same-time web meetings modeled after online lectures.

Content: Emphasis on knowledge and comprehension, with limited focus on application.

Tracking: Content tracked; collaboration not tracked.

Strategic focus: Acquisition of large content libraries.

eLearning Plus approach

Experience: Learner comes to a *campus* to interact with other learners and experts around content.

Duration: Learning is an on-going process that builds on acquired knowledge and skills.

Interactivity: Defined as person-to-person.

Roles: Learning may involve peers, coaches or managers; all of whose behaviors are monitored.

Assessment: Includes coach feedback and manager certification of performance improvement.

Collaboration: Synchronous and asynchronous tools create small group discussions, Q&A sessions, action plans and coached assignments.

Content: Seen as the first step in learning. Emphasis on practice and application on the job.

Tracking: Content *and* collaboration tracked.

Strategic focus: Building business critical skills - your secret sauce.



SUPPORT FOR EVERYONE INVOLVED IN LEARNING

LEARNERS

Relevance

A combination of WBT or rich media and eCampus activities provides you with not just information, but also the context in which to apply it. Acquire content, and then use synchronous and asynchronous discussions to ask questions, try out applications and receive feedback.

Planners, report-outs, roundtables and private coaching rooms provide support. Real-world application helps you attain mastery of the material and ensure that learning sticks.

Availability

24x7 Internet access combined with asynchronous discussions, exercises and coaching rooms allow you to participate from anywhere in the world on your schedule. A learning map and unified interface provide easy navigation through the variety of learning activities that make up a program.

Interaction

"Who's on" indicators and user profiles let you know who is learning with you. Email links and instant messaging allow for quick one-to-one chats, while web meetings and threaded discussions support small group activities.

Collaboration

Small groups, exercises and stretch assignments allow you to work with peers to apply concepts to real-life situations. It is like a graduate seminar, not "just another WBT".

COACHES

Simplified feedback

Coaching assignments link you to your own small groups and your learners' work. Read All New gives you one-click access to new material, while our templated

feedback method allows you to construct unique responses to learners quickly. Combined, these features dramatically reduce the time spent coaching many learners.

Email pings

Email integration allows you to email assignments, documents, reminders and more. Automatic email pings alert you to learner submissions requiring your attention.

A place to go...

Coaches' dashboards display reports with real-time information on learner progress for every individual enrolled in a group.

Private coaches' rooms provide threaded discussions for soliciting advice, sharing ideas or asking others to cover for you.

MANAGERS

Certification

Changes in performance, examination of work samples and learner interviews provide the basis for certification. Managers receive email pings and instructions for certification procedures.

LEARNING ADMINISTRATORS

Role-based management

Random assignment or hand-picked learner groups allow you to create the most effective cadres for learning, while reports allow you to track learner progress, coach feedback and manager certification.

Replicable programs

eCampus templates allow you to rollout additional runs of a course instantly, eliminating one-off projects and creating replicable programs.

LMS functionality and integration

SCORM 1.2 conformance lets you launch and track SCORM packages including e-learning courses and assessments.

Optional integration with existing learning management systems makes tracking of business-critical and compliance training simple and fast and allow you to expand existing LMS functionality.

INSTRUCTIONAL DESIGNERS

Flexibility

Integration of WBT, web meetings, threaded discussions, embedded simulations, coached work samples and certifications provide virtually limitless combinations for learning maps.

Rapid development

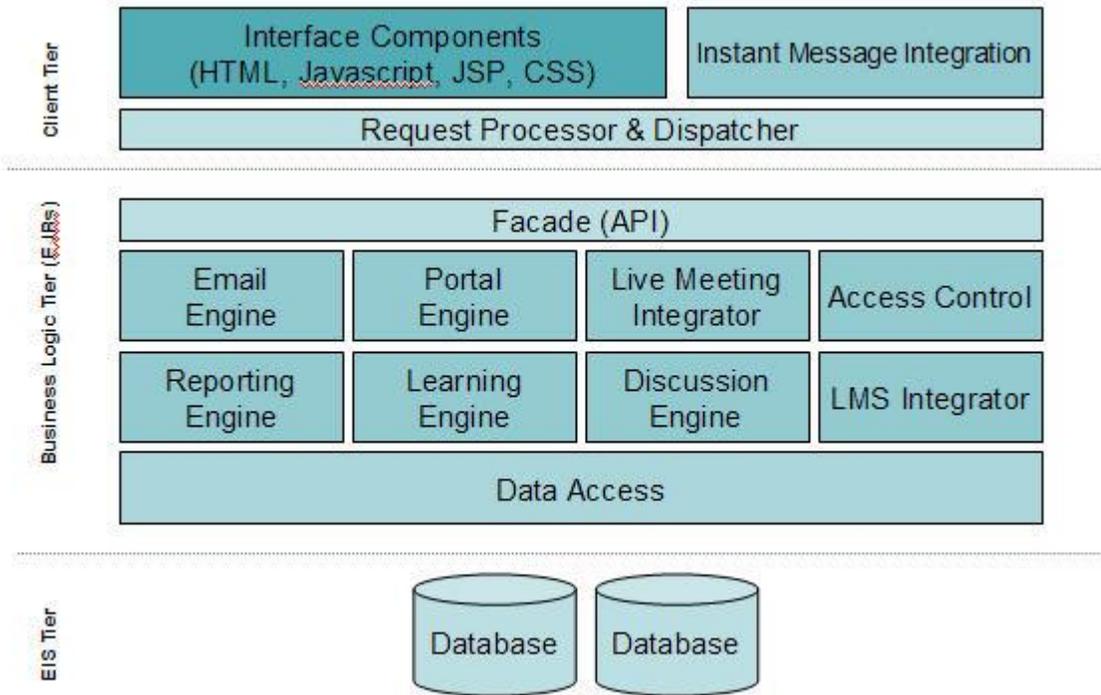
Over 20 templates permit the rapid development of instructionally sound learning maps that combine content acquisition with exercises, discussion and on-the-job practice. You can create learning maps in minutes, not months.

Import and export capabilities allow you to create and modify programs for different groups without starting from scratch each time.

Workflows and tracking

Workflows that measure learner progress can be associated with any activity -- even collaboration. Mastery can be certified via testing, coach/ manager assessment, or a combination of the two.

ECAMPUS ARCHITECTURE



TECHNICAL SPECIFICATIONS

Q2Learning's JeCampus is built with a three-tier architecture for maximum flexibility, scalability and manageability. Features of our architecture include:

- Struts-based Web application with Servlet workflow control.
- Enterprise Java Beans (EJBs) for increased scalability at the business-tier level.
- Session façade that connects the business tier and Web tier.
- Enhanced security with services inherent to EJB container. External authentication and authorization system can be integrated if needed.
- LMS that is SCORM Version 1.2 .run-time environment conformant - minimum with all optional data model elements (LMS-RTE3)

WEB TIER

- A JSP-coded front-end GUI allows users to seamlessly interact with eCampus via their web browser. Unique session IDs guarantee a maintained state for the user via the workflow controller.
- Front Controller acts as the sole entry point for all web requests. It maintains users' sessions, controls workflow and dispatches requests to the appropriate components and ferries back processed results.
- A service monitor continuously checks all objects for latency, locating the responsible items in the web tier, killing and recreating them as necessary. It also logs problems to facilitate trouble-shooting and enable fine-tuning of the system.
- Command design pattern implements a library of business rules to corresponding components in the business tier. The command classes in the library focus on data verification, data conversion, web-centric business logic and business delegation.
- JavaBeans store data from JSP pages and act as a value objects to transfer data between the web and business tiers, and then transfer results from the web tier to the presentation tier. This minimizes network traffic and improves response time.
- Multiple JSP/Servlet containers may be employed as Web servers in front of the EJB application server layer, allowing the web tier to be decoupled from the business-logic tier. This provides increased scalability and hardware redundancy in the event of an application server crash.
- Separate Web and application servers lessen the server burden and improve response time during peak periods.
- Clustering and web-proxy caching are used to meet variable demands.

SYSTEM REQUIREMENTS

- J2EE server
- Database server
- Desktop requirement of Microsoft IE 5.5 or higher

BUSINESS TIER

- A stateless session bean acts as a session façade between the web and business tiers. This exposes a unified business-logic interface to the client. The session bean accepts client's requests, delegates calls to business engines and then returns processing to the client. Implementation details of business components are hidden from web-tier clients, thus making the components pluggable.
- JNDI registers business-component services to offer manageability and expandability.
- The data abstraction component is composed of an entity bean and a Data Access Object (DAO). In cases of entity caching and concurrent access control, the entity bean is used; alternatively DAO is used to improve system performance.

Service Components

- JAAS protocol authenticates users and controls access to other components.
- Email generator creates, queues, sends and receives emails.

Business Components

- Portal engine provides basic content management and portal functions to the eCampus system.
- Reporting engine generates reports for on-line viewing, email notifications and dashboards.
- Learning engine provides workflow and activity templates for the creation and use of learning maps.
- Discussion engine provides basic discussion room capabilities for the eCampus.



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