

Full-Fledged RIA Portal for the Enterprise

Today's challenges for the enterprise is to keep its collaborators and partners up-to-date, and be able to deploy solutions easily, all integrated under a single application's umbrella, making the business to evolve to its full potential, since is the web and the cloud, nowadays, the best way to go.

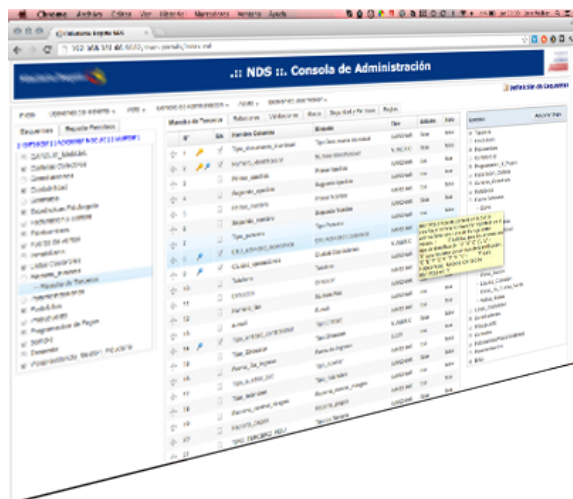
riverPortals® build from ground zero as a Rich Internet Application (RIA), based on the world's famous ZK® Framework, is a JAVA based application that combines a full and strong MVC pattern.

Mature enough, to be running in the top-notch telecommunications and financial sectors in Colombia like Movistar (BVC: BELLSOUTH) and Fiduciaria Bogotá (BVC: GRUPOAVAAVV), has been developed in the last 4 years intensively, to combine the best from different portal solutions on the market today like Microsoft Sharepoint Portal Server, Liferay and Alfresco mainly.

Six main features describe riverPortals® best:

- Collaboration / Intranet / RIA
- Web Content Management System (WCMS)
- Knowledge Management System (KMS)
- Document Publishing System (DPS)
- POJO Based Application Container

Listed in a ZK® website as a must-look application, just go to <http://zkoss.org> and search for riverPortals® to learn a bit more about what this leading organization publishes about our solution.



This paper describes the full set of features for riverPortals® from a technical perspective, out of which a systems architect and a solution engineer can benefit from, in order to plan his next big application deployment.

riverPortals® comes in two flavors, Enterprise Edition (EE) and Community Edition (CE), this list of features will describe which feature to which version belongs to.

Case Study

Country / Region: Colombia / Latinamerica
Industry: Financial Sector

Customer Profile:

As the second largest company in the trust sector in Colombia, **Fiduciaria Bogotá**, which mission is to determine the financial needs and provide quality specialized fiduciary services, generating economic growth in target markets.

Current Situation:

The "Fiduciaria Bogotá" is now implementing an ERP-Like solution in the trust sector, and needs to shutdown 33 applications and integrate them all in this ERP-Like solution, and there is a need for a solution to migrate data from all those applications and generate a portal for data quality and assurance.

Solution Goals

Create an ETL process from which data mining, from all 33 applications can be taken from, as well as to create a portal solution from which users can scrub data for quality assurance. The idea is to use riverETL® Studio for creating Data Maps and automate them for the mining, and port the extracted data to a StretchDB® enabled server, using riverPortals® as web application solution, from which users will use to deperate records in order to load up clean data to the new ERP-Like system.

Expected Benefits

- Have a portal solution from which data can be deperated and later moved to the new system.
- Have a workflow for data approval using security features from riverPortals®
- Aggregate data from 33 applications, even data stored in Microsoft Excel or Plain Text Files, in a single structure from which data can be deperated.



riverPortals®, the Tool Your Company Needs
to put all the pieces together...

Feature List

In this list we'll focus on highlighting all the strengths riverPortals® has to offer to the industry, in order to create powerful web portals that allows any MVC framework, HTML, AJAX web mashups, and riverLets / portlets like components.

- Customizable look and feel to match corporate policies.
- Domain management. Each domain is independent from context, and multiple domains can be created on a single installation.
- Full i18, localizable to match regional deployments.
- Extensive use of riverLets / portlets-like mashups that aggregate JAVA MVC, AJAX, HTML, ZK®, JSF, JSP and more.
- Ability to create HTML content mashups, providing a WCMS feature, with rich text editors for creating and editing.
- Allows creating pages from within the portal with active zones, from which riverLets can be customized to present a dashboard-like view, all movable via drag-n-drop UI components.
- Creation and customization of user menus, bound to user security profiles.
- Security management like traditional portal system does, based on users and groups, but being able to extend to LDAP, Kerberos, XML, DB Custom or any other, by extending the Portal's API.
- CMS-Like help system, i18 localizable.
- Domain Themes management. Allows creating one or more themes per domain. Each theme containing its own set of colors and images.
- File server explorer, tightly integrated in the Portal, with a visor based upon file's MIME type. The explorer can be extended to incorporate any visor possible by implementing the classes for this in the riverPortals® API. [**EE Only**]
- Document Publishing System (DPS). Allowing the transformation of documents (MS-Office or Open Office) to PDF or HTML renditions. This feature is part of the File explorer characteristic of riverPortals® EE, enriching the WCMS capabilities to not only content created manually on the portal. [**EE Only**]
- Complex Web applications, deployed via POJO based components, following riverPortals® API.

- Data Access Definitions per domain, targeting any enabled database via riverDAO® API. So far we provide access for Oracle, MySQL & PostgreSQL. These Data Access Objects (DAO) can be used by any UI-POJO application deployed on riverPortals®.
- Properties management system. riverPortals® as well as other River Software Technology applications rely on property files, that can be easily managed via an intuitive user interface. Custom set of property files can be created to hold important configuration information for any third party component running under the context of riverPortals® or within the same JVM via riverSDK® API.
- User Messages Management System, which allows creating and administering messages that are presented to the end user via the UI interface or via log files. All i18 localizable, with the ability to use placeholders for computed information.
- File System Monitor (FSM). Each domain can contain a copy of riverFSM®, which allows to create components based on EDA over the file system for most common events. This allows extending functionality to achieve other type of user experience. riverFSM® plays an important role for the DPS since a listener is attached to a file-system-folder in order to allow transformation of documents into other renditions. Also plays an important role in Nilus® SOA platform. [**EE Only**]
- License management for every deployed component within the portal.
- Governance persistence achieved via H2 (default) or Oracle.

riverPortals® Application Server Requirements [JAVA]

- Oracle Glassfish, Apache Geronimo, IBM WAS, JBoss, etc.
- Oracle, Postgres, H2, MS-SQL, MySQL, etc.
- SUN Solaris, HP-UX, Linux, Windows 2003 R2

System Requirements

riverPortals® Minimum Server Hardware Requirements

- 2 CPUs 1Ghz+
- 2+ GB RAM
- 60+ GB available hard drive space
- Network connectivity via TCP/IP

riverPortals® Minimum Software Required

- Java (JRE 5.0 or newer)
- Java Application Container

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