

VALIANT



Technology

Behind every great software product, you will find great technology.

In building our Next Generation Human Capital Management Solution, we used new emerging modern technologies and approaches to architecture along with best practices to re-build our products from the ground up. **Proper software architecture provides agility and flexibility into the software development process while increasing quality.**

Most software providers are interested in moving to these newer architectures, but are faced with the challenge of having to continue to maintain the old architecture while building the new one. Providers often require their customers to be on a single version which leads to customers not enjoying the latest new features and having to perform an upgrade to the new platform. Although very difficult and time consuming, Valiant has built our new platform in such a way as to allow our users to run our legacy applications and our next generation applications in parallel against a single database. This provides our users with the **flexibility to migrate to the new platform on their schedule** and not one imposed upon them by us.

In the past, many legacy client-server enterprise applications have provided their clients with a lot of value, but it has come at a very, high cost. These systems are often

very hard to use, hard to change, and hard to integrate. The rigidity in these architectures comes from the fact that you've got a complex logic layer. Changes to the logic layer have to be synched up with corresponding changes to the data layer, and both layers are constantly changing.

This time, **we took an entirely new approach in our application development.** We created a deeply layered architecture with a reusable business function layer. This layer is completely separated from the User Interface and the many user experiences that you can enjoy. This allows us the ability to create specialized functionality such as exporters, importers, audit trails, comments, wizards, etc.

This specialized functionality yields a consistent, high quality, user friendly experience which you can enjoy throughout the entire application suite.

Through the use of our foundational Application Programming Interface (API), we have decoupled the reusable business function layer from the user interface. This provides us the ability to **rapidly create multiple user experiences that are consistent across devices.**

Unlimited Flexibility. The API Module Management allows grouping different Objects and Properties into applications with

unlimited flexibility. Presenting what was specific to one application in the past can now become part of multiple applications.

Integration and Collaboration. The same API that Valiant uses to build our applications is made available to you. This means that you can innovate, extend and build anything you would like on top of our platform. For some it means a customized interface which is proprietary to your company giving you a competitive advantage. To others it means quick access to partner feeds, data interfaces and third party applications. However you put it, it means freedom to do whatever you want with your data and to innovate.

Quick Adaption. Utilizing our Layered Architecture and API Foundation allows us to build and change applications faster with higher quality. This gives Valiant the

opportunity to react in a timely manner to changes in the industry.

Cloud Based – Cloud Computing. Our new Platform is a fully native Web application. Which allows you have access to all your data anytime 24/7, anywhere, from any device and does not require any software installation on you computer. Valiant’s cloud infrastructure provides enterprise-class data privacy, data management, security and availability.

- Low overhead (Upgrades, maintenance and administration of the server)
- High availability (maximum optimized network performance, on-premise solutions)
- Data security (including disaster recovery and back-up performance)
- Easy access at anytime from anywhere

Application

Model

View

Controller

Validations

Callback
Observers

Relations

SQL Abstraction

Auto SQL Query
Generation

Migrations

Data Transport
Formatting

XML Serialization
and Deserialization

Atomic data actions

Route data URLs

Platform
independence

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