



## A unique cloud solution for healthcare, clinical medicine and insurance designed to personalize your company

Perseid Software's Life Sciences Universe™ is both a unique software solution for managing healthcare and insurance but also engineering "platform" for developing your own corporate products in healthcare, the life sciences and insurance.

The product combines an Internet cloud computing and integrated database architecture with an unrivalled combination of pre-existing solutions for building centers of excellence in healthcare, insurance, disability, life sciences, research and clinical medicine.

## The benefits of integrated care are real and here now:



New McKinsey research<sup>1</sup> shows that a payday could be arriving faster than expected. A new class of company is emerging—one that uses collaborative Web 2.0 technologies intensively to connect the internal efforts of employees and to extend the organization's reach to customers, partners, and suppliers. We call this new kind of company the networked enterprise. Results from our analysis of proprietary survey data show that the Web 2.0 use is significantly improving their reported performance. In fact, our data show that fully networked enterprises are not only more likely to be market leaders or to be gaining market share but also use management practices that lead to margins higher than those of companies using the Web in more limited way.



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<sup>1</sup> McKinsey & Co., *The rise of the networked enterprise: Web 2.0 finds its payday*, McKinsey Quarterly, December 2010, <http://www.pwc.com/us/en/health-industries/publications/healthcare-unwired.jhtml>

## The product provides comprehensive solutions

The Life Sciences Universe product can combine a wide range of personal, insurance, clinical, claims and encounter, disability, occupational health, care and case management and research information for a person and their family, a facility, healthcare program, insurance company, provider of care or research program. The goal is to create a single source of integrated information for providers, payers, families, care, disease and case management, research and enterprise software development:

### •Integrated Care & Wellness & Research

- Family- and Person-Centered Care
- "Medical Home" and Mobile Health Programs
- Personal Health & Group Health
- Clinical Improvement Programs
- Clinical & Social Services
- Integrated Case and Incident Management
- Clinical and Personal Health Data Repository
- Central Vocabulary Management
- Occupational Health, Safety & Surveillance
- Disability and Workers Compensation
- Group Health Insurance and Reinsurance
- Risk and Value Management
- Clinical Trials and Post-market Surveillance

Your IT organization with or without a systems integrator uses the integrated clinical care and insurance management applications, since source code is always included in the product, to build a wide variety of solutions or customize the core products, libraries, databases and applications to design and build your unique and privately labeled solutions for internal use, non-profit/NGO or commercial sale.

# Architecture

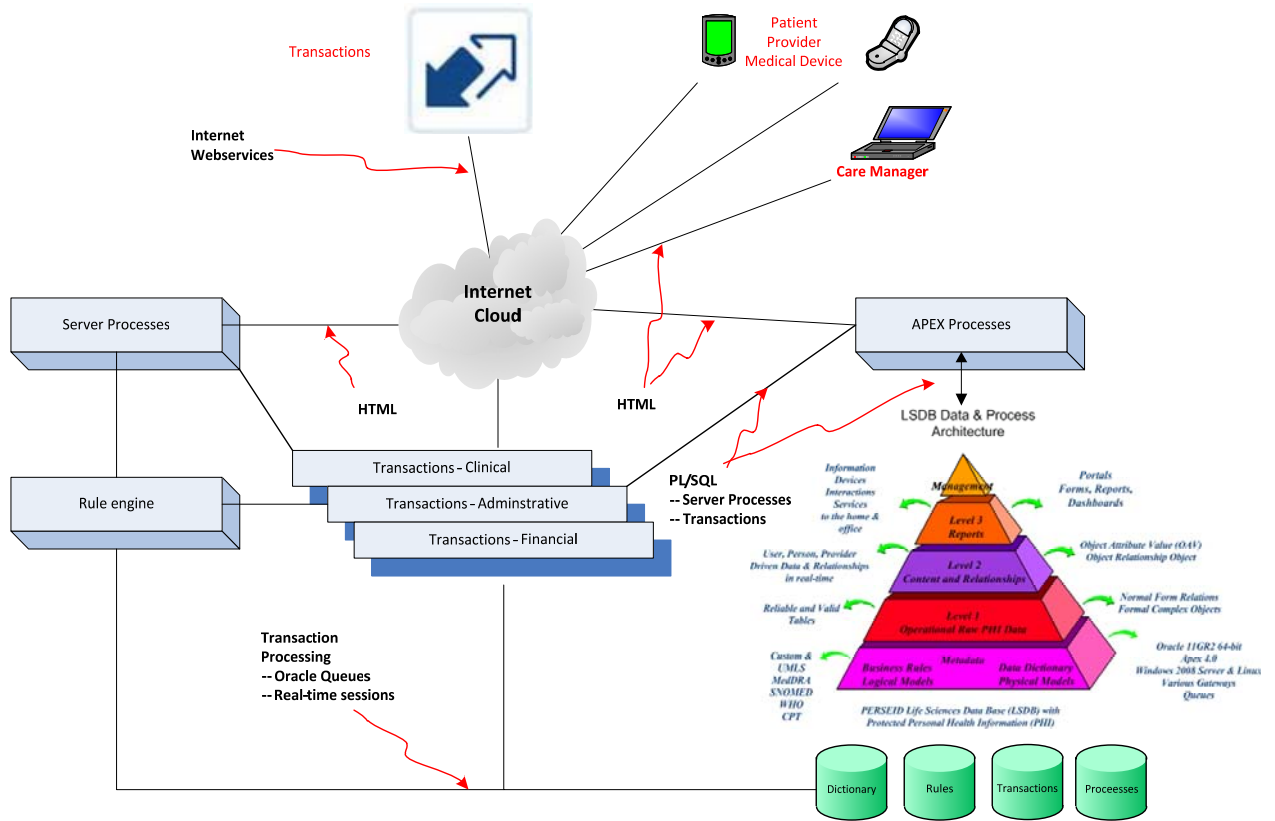
**Integrated Applications,  
Vocabulary, Transaction Processing,  
Rule Engine & One Logical Database**

**Applications**

- Analytics
- Case Management
- EMR/PHR/CDR
- Claims & Encounters
- Signal Detection
- UR
- Credentialing
- Reporting & Research
- Messages
- Disease Management
- EAP
- Disability
- Worker's Compensation
- Reinsurance

**Oracle Databases**

- Real-time and transaction processing
- Central control for all processing
- Single Audit point
- PL/SQL Function Calls
- Transaction Queues
- transactions
- webservices



## The Life Sciences Universe™ product

The Life Sciences Universe is a fully integrated solution set and technology platform and:

- is designed for cloud computing and globalized design and operation
- supports real-time transaction processing in homes and clinics
- has highest levels of security, audit, access and control
- is entirely written in Oracle (PL/SQL and APEX)
- can operate as a Software as a Service cloud product
- includes CRM for customers and billing, Requirements and Policy Management
- supports an integrated set of 125 Perseid and Oracle databases
- is written for and supports the Internet and mobile health
- has a common sign-on, security, access and control system
- can scale to the full extent of Oracle 64-bit servers and high-volume transaction processing
- includes secure email and workspaces for social networking
- is portable to all computers and operating systems
- has no code to maintain and download into workstations
- is provided with full source code and a standard vocabulary of 500,000 terms and codes
- merges all major international clinical vocabularies

## History

The Life Sciences Universe was developed by an expert team of advisors, consultants and software engineers over a seven year period of design and development. Conceived in a conversation with a senior physician at PricewaterhouseCoopers and a former senior executive at P&G, the product evolved into its current version as a self-funded product development effort.

Bernard P. Wess, Jr. led the design and development of the product based on 35 years of requirements analysis in healthcare and insurance, including input from UOM Shock Trauma, Tufts Health Plan, P&G, InfoMedtrics, Ford, EDS, WellPoint, Xerox (ACS), Blue Cross / Blue Shields, PricewaterhouseCoopers, CIGNA, Northrop Grumman and partners for the DoD.

The product is based on a core of integrated healthcare, clinical medicine, disability and insurance databases that share a common computer-aided design and development environment, vocabulary, security, transaction processing and audit capability. It implements all of the recommendations<sup>2</sup> of PricewaterhouseCoopers in its national survey of physicians for their mobile and “unwired” healthcare requirements and its “Research rewired” whitepaper merging healthcare delivery and research.<sup>3</sup>

The product is designed to scale to millions of persons and support high-volume transaction processing, very rare attributes of current Internet healthcare applications. The databases have evolved over decades, are very stable and have been utilized in various applications and solutions spanning healthcare, insurance, clinical medicine and reinsurance.

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<sup>2</sup> <http://www.pwc.com/us/en/health-industries/publications/healthcare-unwired.jhtml>

<sup>3</sup> [http://www.pwc.fr/assets/files/pdf/2008/03/pwc\\_research\\_rewired.pdf](http://www.pwc.fr/assets/files/pdf/2008/03/pwc_research_rewired.pdf)

## What People are Saying About the Product

The Life Sciences Universe product has been and is being reviewed by a number of industry leaders and some of the comments are:

*“what I like about the product is its integration of all lines of business in one database”*  
– national managed care executive

*“ahead of the market by 18-24 months”*  
– consulting firm to one of the world’s largest software companies

*“how did you do this with ten or so people, our software product has 110 developers”*  
– global medical device manufacturer

*“a unique platform for rapidly building centers of excellence and the ‘medical home’ “*  
– partner of the Department of Defense

*“should save any employer millions in hospitalizations and high risk cases “*  
– former senior executive at P&G

*“I really wish I had this five years ago for my clients “*  
– senior clinical engineer in global healthcare company

*“the future state of care “*  
– consultant to one of the world’s largest insurers

## Partnerships

The Life Sciences Universe product may be licensed through a monthly rental or lease/purchase agreement and is delivered as a VMWARE 7.0 virtual machine using Oracle 64-bit Enterprise Edition 11GR2 for Windows Server 2008. It may be ported to Unix/Linux and it is written entirely in PL/SQL and APEX 4.0.

## Contact Us

If you are considering developing integrated care solutions in insurance or healthcare based on cloud and mobile healthcare platforms and deploying real-time Internet cloud-based applications, the Life Sciences Universe should be considered by your enterprise and we can arrange a demonstration for your organization using the Internet since the product is cloud-based and does not require any software downloads.

Please visit our website at [www.perseidsoftware.com](http://www.perseidsoftware.com) for more detail or contact us at +1 617 517 6314 or email the CEO, Bernard P. Wess, Jr. at [bwess@perseidsoftware.com](mailto:bwess@perseidsoftware.com).