



### The Monster Mash:<sup>3</sup> Leverage or Replace Legacy Systems

Companies in general use assorted paper- and software-based EH&S systems, including a host of spreadsheets (See *IT Insight*, "Managing Spreadsheet Risk," October 2012). In four recent cases, mergers and acquisitions drove clients to implement consistent, enterprise EH&S business processes using an EH&S software platform. A mash-up of legacy systems will not enable data sharing, data roll-up, consistent metrics, or a single source of the truth:

- One company became an industry leader overnight after two acquisitions. EH&S spreadsheets that create "data silos" will not meet the company's needs moving forward.
- Another doubled its size through a merger and found that the legacy EH&S software applications will not support the complex, growing needs of the new company.
- A third company expects to grow by a series of

acquisitions over the next five years. Their primary EH&S systems are not deployed company-wide and use older technology that they can no longer support.

- A fourth, multi-sector company plans additional acquisitions. Their legacy systems, limited EH&S and IT staff will not support future growth.

### Waiting for the World to Change:<sup>4</sup> Software as a Service

Many organizations would not consider Software as a Service (SaaS) five or ten years ago. Now they embrace SaaS, for several reasons:

- the ability to leverage limited IT resources, leveling the playing field for small and large companies;
- the ability to transfer risk to the software provider for software development, maintenance, and upgrades;
- tax advantages of subscriptions (operating expense) vs. large, up-front perpetual license fees (capital expense); and
- little or no new hardware is required.



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## Here, There, and Everywhere:<sup>5</sup> Localization

Global organizations manage a range of operations in different regulatory jurisdictions, cultures, and languages. While English is a universal technical language, these organizations want multilingual capabilities—from software screens and documentation to reporting, also known as “localization.” Leading software providers offer the ability to quickly display the same screen in different languages. They also offer the ability to use different currencies and units of measure. Then again, organizations should keep the data itself in a single language for quality assurance purposes.

## If You Build It, They Will Come:<sup>6</sup> User Adoption

Users will not adopt software just because it’s there. Software must meet user needs and fit the organization’s culture and maturity level. It must use familiar terminology. Most important, software must be easy to use and easy to configure.

Leading vendors invest in user interface design for more intuitive data entry, display, and reporting. At a recent EH&S software user conference, a sneak preview of an upcoming interface received applause!

Vendors that want customers to be self-reliant also invest in ease of configuration. Customers can use “drag and drop” tools add new user accounts and create reports, forms, and dashboards, without the need to know how to write software code. This allows a custom look without customization, enabling easier software upgrades and maintenance.

## Time After Time:<sup>7</sup> Standard Connectors

I have seen an increase in the number of rapid implementations. Customers today demand rapid

software roll-out; most are not willing to wait 18-36 months for a comprehensive implementation. One of the largest variables is the time needed to build interfaces between the EH&S system and other systems that feed data to it.

The availability of standard interfaces to other systems would provide value by accelerating roll-out. Software providers should offer standard interfaces with common process data historians, continuous emission monitoring systems (CEMS), regulatory content providers, and enterprise resource planning (ERP) modules that feed data to the EH&S system. Time after time, even with said standard interfaces, it seems that each system interface is a unique build that requires significant time and effort. Why must customers rewrite software code each time?

## I’ve Got Sunshine on a Cloudy Day:<sup>8</sup> Mobile, Social, Cloud, and Big Data

Vendors have begun to incorporate these technologies (See *IT Insight*, “The Perfect Storm of Mobile, Social, Cloud, and Big Data,” April 2013). Mobile technologies allow 24/7 access from stationary and mobile devices. Public, private, and hybrid “clouds,” plus social networking tools, offers a wealth of data sharing and collaboration capabilities. And “big data” enables rapid data mining and trend analysis of very large data sets, 1 terabyte or more.

Customers today demand more of their EH&S and sustainability software. The ability for the software market to respond to the need for consistent processes, centralized systems, and globalization will result in continuous improvement for years to come. New software delivery methods and pricing models and making software easier to use and maintain will help to build a loyal customer base. **em**

## References

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