

Dealing With Data Complexities

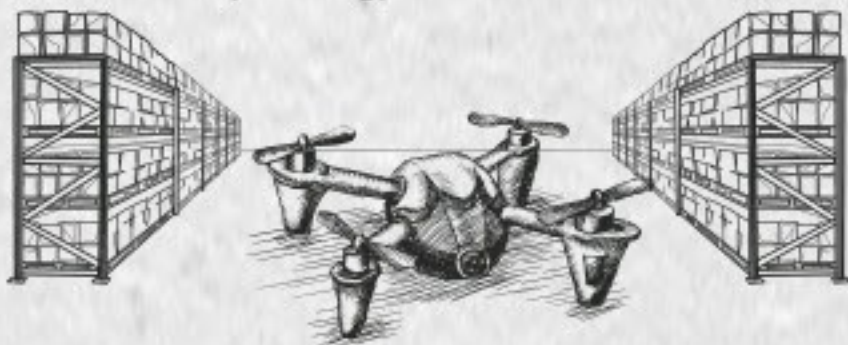
(Lyle Hart, SVP, Strategic Consulting)

In continuing our discussion from the last issue that highlighted the importance of correlating data to business outcomes, Emergys appreciates that clients need help in understanding how technology can work for them to deliver business benefit. Unfortunately, most businesses don't have comprehensive data that is easily accessible to the analytics tools to help them deliver that value. Pre-requisite work is often required to address the messiness of data in a business that wants to transform.

There are several potential reasons... [Read Full Story](#)

Featured Solution

droneWare FOR **SAP**
By Emergys



Automate warehouse inventory tracking, cycle counting & monitoring, while uploading inventory results directly to SAP.

[LEARN MORE](#)

Events

SAP FKOM

SAP Field Kick-Off Meeting

Las Vegas, NV - January 15-17 2020

Emergys continues to commit to SAP, driving new business and upgrades!

The Emergys team met with SAP partners and sales teams at the 2020 SAP FKOM to get some insights on SAP's strategy and vision of the future, with an emphasis on Theaters, showcases, demos and interactive sessions that bring the "Experience Matters" story to life.

Major Achievements

droneWare
By Emergys

The Emergys team have been conducting extensive droneWare trials with PFSweb in Memphis through January

Trials continue to exceed expectations, prove data capture and pass through to ERP! Production readiness on the near horizon!

EMERGYS
AN INTELLIGENT ENTERPRISE EXPERIENCE

Emergys opens new Technology Center in Nagpur India

Emergys Software Pvt Ltd C/O, Aquarian Soft Pvt. Ltd. Besides Abhinav Classic. F-12, Barlinge layout, Laxminagar. Nagpur, Maharashtra, India 440020
Phone (Shilesh Rastogi): +91 9373120613

PINSA

Emergys Mexico Closes major RPA deal with PINSA, Mexico.

We started the first automation project based on IBM RPA focused in the process of reconciling accounts receivable for one of PINSA's major customers (Soriana).

CENTURIAN
SHIPPING

Partnering with Novigo and Serrala, Emergys wins major project to implement and roll-out FICO for S/4Hana to multiple locations across Asia.

The roll out covers Organization Structures and hierarchies across FI, MM, SD and Cost and managerial Accounting modules for Hong Kong, Singapore, India and China.

Employee Spotlight



John Janakiraman
CTO at Emergys Corp.

Meet Mr. John Janakiraman, Emergys' technology visionary who leads innovation that deliver agile results for our Customers.

[LinkedIn](#)

Take Action!

**EMERGYS PULSE INVITES YOU TO SHARE YOUR STORY.
TELL US WHAT INSPIRES YOU!**

Share your experiences and provide insights and guidance to your peers by submitting articles to - salesops@emergys.com

www.emergys.com

For inquiries please contact, salesops@emergys.com

Copyright © 2020 Emergys LLC. All Rights Reserved. | Geographies: **US, Mexico, India, Canada**

Dealing With Data Complexities

(Lyle Hart, SVP, Strategic Consulting)

In continuing our discussion from the last issue that highlighted the importance of correlating data to business outcomes, Emergys appreciates that clients need help in understanding how technology can work for them to deliver business benefit. Unfortunately, most businesses don't have comprehensive data that is easily accessible to the analytics tools to help them deliver that value. Pre-requisite work is often required to address the messiness of data in a business that wants to transform. There are several potential reasons:



There are several potential reasons:

- A) Companies may have data locked away in legacy applications or databases that isn't easily accessible.
- B) Companies may have older ERP systems that are dependent on Data Warehouses and Operational Data Stores rather than in-memory databases like SAP HANA.
- C) Even if companies have progressed to the latest ERP technology, large enterprises often have heterogenous applications and databases that have locked away critical pieces of information needed to gain 360-degree business insight.
- D) In many enterprises, data is held in individual devices. Examples include medical devices in hospitals or manufacturing devices or process controllers on a process line.
- E) Key data may not be local and may need to be accessed from the internet or proprietary databases owned by someone else.

To address these and other complexities with where data resides, a comprehensive data architecture linked to business outcomes is required. This needs to account for data ingestion into the consolidating system whether it be a data lake, an analytics tool, or simply a graphical user interface. It needs to consider not only the sources of data, but also what is required to unlock that data and make it useable.

The Messiness Of Data

Simply linking various data sources of information is not enough. There are challenges that go beyond just the distributed repositories of the data. Data translation or transformation may be required.

- Understanding timing of data is critical. For example, to understand the pipeline of product requires more than adding up your Work-In-Progress and Finished Goods. If the Finished Goods count was recorded in the database at midnight last night and the Work-in-Progress inventory is as of 2PM this afternoon, the sum of the two is not very meaningful – unless your manufacturing line has been idle since midnight. New Finished Goods have likely entered the warehouse in the meantime that would not be captured in either count. Meanwhile other finished goods may have shipped to distributors or customers.

- Formatting of data may be different between data sources making combining the data unintelligible without some manipulation.
- Differing data permissions may be required by security protocols. Some of these may be linked to regulatory controls like HIPAA. Some may be enterprise policies like separation of duties. Some could simply be the controls established when a given application was installed.
- Data volumes may be too high requiring archiving, sampling, or other approaches to achieve reasonable performance.

The time, difficulty, and skill required to transform data is often underestimated while implementing new analytics tools.

How Will Data Be Accessed And Used?

In the previous issue, we discussed the importance of linking data to business outcomes that can be done in various ways:

- Through a User Interface that presents data in an intuitive fashion to people to make decisions.
- Through a more complex analytics engine that draws conclusions from the data and presents those to decision-makers rather than relying on the human mind to do that analysis.
- Finally, it could be through an automated sense-and-respond mechanism that automates the response based on the data without human intervention.

As a simple example, consider a home thermostat that senses the temperature and turns on the heating or air conditioning without a human involved in the transaction. The human can then focus on the higher level infrequent decision like what temperature do I want to maintain in my house rather than a routine real-time decision to turn the furnace on or off. With the evolution of the Internet of Things (IOT), more complex actions involving many devices can be automated.



Emergys understands the messiness of data that often requires transformation to gain useful information. We understand the challenges of combining data and data ingestion. We can help you assess how to access that data directly through a presentation layer or feed it into analytics tools and develop the algorithms to yield higher level decision support. We can provide a comprehensive data strategy and data architecture to determine how best to integrate these various sources of data, making useful information available.

Contact us today!