

Could the Internet of Things Future Really Rest in the Hands of a Small Indiana Company?

The Man Behind the Automated, When-and-Where You Want It World Readies His Next Invention; Telecom and Automotive Industries Have Quietly Bought In

INDIANAPOLIS, IN, UNITED STATES, June 29, 2017 /EINPresswire.com/ -- When John Layden first applied radical thinking to automating scheduling and supply chains at some of the world's most respected manufacturers, the Internet didn't exist. Fifty years later, the breathless promises of Internet of Things (IoT) may rest on a new application of his theories.

Databases underlying the inconceivable amounts of digital information crisscrossing the planet are failing, crippled under the weight of information generated from billions of newly-connected devices. The volume has not only overwhelmed outmoded, half-century-old processing systems and demanded exponential growth in server farms, but also caused a global shortage of data scientists. Analysis is flailing, and consumers and businesses are growing impatient.

If you've waited for an online retailer to check availability, for your bank to complete weekend maintenance, or for Healthcare.gov to process a new input, you're seeing the data deluge first hand.

Enter Time Compression Strategies (tcsdb.com), the 30-person Indiana-based company founded by Layden and his brother, David, who serves as chief scientist. Their approach to massive data handling is at the heart of complex systems we take for granted. Place a mobile phone call? It's likely routed through cell towers using their software. Touch the control screen in your car, confident that it will work as designed? That reliability is made possible by production lines controlled by TCS code.

Now, Layden believes his company's latest invention, dubbed Ancelus, holds the key to unburdening the Internet economy from the "things" attached to it. The software's latest version is now ready for general availability.

"The very devices meant to fulfill the promises of global interconnectivity and data-driven decisions are actually causing the demise of that vision," he says. "Oracle solutions and Apache Cassandra databases were never designed to handle these loads or to scale at these rates. The data world has been limping along with Band-Aid fixes, and those are failing as well."

What makes Ancelus different is its approach to data, mimicking the logical structure of data in nature, eliminating the massive overhead of translation from natural to tables. The limitations of any predefined structure are eliminated by the patented abstract physical storage model of Ancelus. Tossing aside the traditional limits of available memory or even the speed of disk storage, Ancelus allows the analysis to happen in real time as it's streamed. The result is an approach that is five to eight orders of magnitude faster, millions of dollars more affordable, and vastly easier to use than existing systems.

"The flow of time is fixed, and stored data is persistent, but intelligence is perishable," Layden points out. "Information has limited utility unless we can assess, alert, adapt and act in real time. The longer organizations go with relying on temporary fixes destined to break, the bigger the failures will be

across industries, regions and populations. It's only a matter of time.”

With its potential – usually viewed in the too-good-to-be-true vein until a customer experiences it or an analyst gets under the hood – why hasn't TCS killed off Oracle and Apache Cassandra? Aside from TCS' historical focus on embedded systems in manufacturing and telecom, it's about sunk costs. Having spent billions on legacy systems, corporations are hesitant to explore alternatives.

“If they keep doing what they're doing, they'll keep getting what they're getting: a slow-motion collapse as data sets grow, performance degrades and costs continue to escalate,” he predicts.

But given the scale of the problem and the ever-growing IoT data deluge, that may be changing. And if anyone knows how to affect change on a large scale, it's Layden.

His story is decades in the making, and it's now time for TCS to play on a much larger stage. With enterprise-level reliability and new development tools in Ancelus v6.0, the company is taking steps to make early adopters aware of what's otherwise been hidden in plain sight.

The world is finally catching up with Layden's thinking. For a visionary who has made his life's work about speeding products and ideas to market with uncanny precision and unnervingly accurate predictions, it's about time. And always has been.

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