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IIoT Bold Prediction Series Part 3 | @ThingsExpo #IoT #M2M

Predictive Analytics Alters Fundamental IT/OT Practices

BY **SCOTT ALLEN**   ARTICLE RATING: Select rating ▼
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DECEMBER 18, 2015 09:00 AM EST

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So far, our series of IIoT Bold Predictions for 2016 has focused on the concepts of IIoT security and government's regulatory role in the development of IoT and IIoT devices. Today, we're changing gears a bit, with a prediction from Scott Allen, FreeWave's CMO, which focuses on the implementation of IIoT technology into big data practices to create real-time, data-driven intelligence.

Prediction #3: Predictive Analytics Alters Fundamental IT/OT Practices

Predictive analytics will change the nature of industrial communication systems and networks significantly over the next five years. Certain industrial sectors have long utilized machine-to-machine (M2M) technology, like manufacturing, utilities, and oil and gas, as the backbone to operations technology. However, as IIoT communication technology continues to improve at a rapid pace, these industries will begin implementing tech and business practices designed to create data synergy that will ultimately provide predictive analytics for better decision making.

There are two elements at work that will push predictive analytics to the forefront of industrial communication systems. The first is the advancement of technology. Big data companies are making serious progress with comparing data-at-rest

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with data-in-motion as a strong basis for predicting outcomes with maximum accuracy. As the network infrastructure advances at the access layer in ways that allow analytic applications to be executed locally while communicating globally this trend will do nothing but accelerate.

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The second element that will drive change is the retiring or soon to be retiring workforce that drove the implementation and use of SCADA networks. This will create a knowledge gap that will require new technology to fill – and predictive analytics will be the one that fills that gap. Although an aging workforce is not unique to the IIoT sector, the transition will be pronounced and could, without incorporating predictive analytics practices, be accompanied by some significant growing pains.

Looking Ahead

Sensor-2-Server (S2S) technology will begin to ease the synergy between IIoT technology and big data. Ensuring accurate data transmission, collection and analysis in critical industries is an important step along the path to a connected world. As S2S technology proliferates, companies will see a significant impact on IT and OT practices, along with the ability to converge those two silos into more efficient and streamlined decision-making.

The post IIoT Bold Prediction Series Part 3: Predictive Analytics Alters Fundamental IT/OT Practices appeared first on FreeWave WaveLengths.

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Scott is an executive leader with more than 25 years of experience in product lifecycle management, product marketing, business

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development, and technology deployment. He offers a unique blend of start-up aggressiveness and established company executive leadership, with expertise in product delivery, demand generation, and global market expansion. As CMO of FreeWave, Scott is responsible for product life cycle/management, GTM execution, demand generation, and brand creation/expansion strategies.

Prior to joining FreeWave, Scott held executive management positions at Fluke Networks (a Danaher Company), Network Associates (McAfee), and several start-ups including Mazu Networks and NEXVU Business Solutions. Scott earned his BA in Computer Information Systems from Weber University.

@ThingsExpo Stories

[video] Cloudian's Way of Managing Data

By Pat Romanski

"Storage is growing. All of IDC's estimates say that unstructured data is now 80% of the world's data. We provide storage systems that can actually deal with that scale of data - software-defined storage systems," stated Paul Turner, Chief Product and Marketing Officer at Cloudian, in this SYS-CON.tv interview at 17th Cloud Expo, held November 3-5, 2015, at the Santa Clara Convention Center in Santa Clara, CA.

Dec. 18, 2015 09:00 AM EST Reads: 279

[slides] State of Art in Big Data Analytics

By Elizabeth White

The broad selection of hardware, the rapid evolution of operating systems and the time-to-market for mobile apps has been so rapid that new challenges for developers and engineers arise every day. Security, testing, hosting, and other metrics have to be considered through the process. In his session at @ThingsExpo, Walter Maguire, Chief Field Technologist, HP Big Data Group, at Hewlett-Packard, discussed the challenges faced by developers and a composite Big Data applications builder, focusing on how to help solve the problems that developers are continuously battling.

Dec. 18, 2015 09:00 AM EST Reads: 427

[slides] Critical IoT Communications

By Pat Romanski

Contrary to mainstream media attention, the multiple possibilities of how consumer IoT will transform our everyday lives aren't the only angle of this headline-gaining trend. There's a huge opportunity for "industrial IoT" and "Smart Cities" to impact the world in the same capacity – especially during critical situations. For example, a community water dam that needs to release water can leverage embedded critical communications logic to alert the appropriate individuals, on the right device, as soon as they are needed to take action.

Dec. 18, 2015 08:30 AM EST Reads: 135

[slides] Understanding Threats Using Big Data

By Elizabeth White

Internet of Everything: Seizing the Opportunities

Virtustream
Day 3 Keynote at 16th Cloud Expo | Rodney Rogers, CEO of Virtustream

VENDOR PRESENTATIONS

Akana
General Session at 16th Cloud Expo | Laura Heritage, Director of API Strategy at Akana

CenturyLink
General Session at 16th Cloud Expo | David Shacochis, Vice President at CenturyLink

Cisco
General Session at 16th Cloud Expo | Paul Maravei, Regional Sales Manager, Hybrid Cloud, Cisco

CodeFutures
General Session at 16th Cloud Expo | Dan Lynn, CEO of CodeFutures Corporation

MetraTech, now part of Ericsson
General Session at 16th Cloud Expo | Esmeralda Swartz, VP, Marketing Enterprise & Cloud at Ericsson

SoftLayer
General Session at 16th Cloud Expo | Phil Jackson, Lead Technology Evangelist at SoftLayer

MetraTech, now part of Ericsson
General Session at 16th Cloud Expo | Esmeralda Swartz, VP, Marketing Enterprise & Cloud at Ericsson

Contextual Analytics of various threat data provides a deeper understanding of a given threat and enables identification of unknown threat vectors. In his session at @ThingsExpo, David Dufour, Head of Security Architecture, IoT, Webroot, Inc., discussed how through the use of Big Data analytics and deep data correlation across different threat types, it is possible to gain a better understanding of where, how and to what level of danger a malicious actor poses to an organization, and to determine the measures to implement to prevent future occurrences.

Dec. 18, 2015 08:15 AM EST　Reads: 280

[slides] IoT's Impact on Smart Buildings
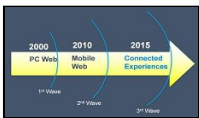
By Elizabeth White

When it comes to IoT in the enterprise, namely the commercial building and hospitality markets, a benefit not getting the attention it deserves is energy efficiency, and IoT's direct impact on a cleaner, greener environment when installed in smart buildings. Until now clean technology was offered piecemeal and led with point solutions that require significant systems integration to orchestrate and deploy. There didn't exist a 'top down' approach that can manage and monitor the way a Smart Building actually breathes - immediately flagging overheating in a closet or over cooling in unoccupied ho...

Dec. 18, 2015 08:00 AM EST

[slides] IoT and Hyper Contextual Marketing

By Pat Romanski

Consumer IoT applications provide data about the user that just doesn't exist in traditional PC or mobile web applications. This rich data, or "context," enables the highly personalized consumer experiences that characterize many consumer IoT apps. This same data is also providing brands with unprecedented insight into how their connected products are being used, while, at the same time, powering highly targeted engagement and marketing opportunities. In his session at @ThingsExpo, Nathan Treloar, President and COO of Bebaio, explored examples of brands transforming their businesses by tappi...

Dec. 18, 2015 07:00 AM EST　Reads: 335

[video] Monetizing IoT Business Models

By Liz McMillan

"What we see what happens when you have a completely networked society and the potential to now drive the value creation and the collaboration and the ecosystems that are possible when you start to be able to connect people and industries together in ways that have never been possible before," explained Esmeralda Swartz, VP of Marketing Enterprise & Cloud at Ericsson, in this SYS-CON.tv interview at @ThingsExpo, held November 3-5, 2015, at the Santa Clara Convention Center in Santa Clara, CA.

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[video] IoT Business Value with Vitria

By Pat Romanski

"IoT is really hitting its stride. The adoption rates are increasing and Vitria is in a good position to help people deliver on the value of IoT," explained Mike Houston, Marketing & Product Marketing Professional at Vitria Technology, in this SYS-CON.tv interview at @ThingsExpo, held

Windstream

General Session at 16th Cloud Expo | Michael Piccininni, EMC, & Mike Dietze, Windstream

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Microservices & IoT Power Panel at DevOps Summit

November 3-5, 2015, at the Santa Clara Convention Center in Santa Clara, CA.
Dec. 18, 2015 06:00 AM EST Reads: 309

[video] Navigating the IoT with BSquare

By Pat Romanski

"The problem with IoT today is that people aren't looking to buy IoT, what they're really trying to do is buy a business outcome or trying to figure out ways to improve the business outcome. It just so happens that IoT may be the technology that can help do that," stated Dave McCarthy, Director of Products at Bsquare Corporation, in this SYS-CON.tv interview at @ThingsExpo, held November 3-5, 2015, at the Santa Clara Convention Center in Santa Clara, CA.
Dec. 18, 2015 04:45 AM EST Reads: 331

[video] Harbinger's IoT Innovation

By Pat Romanski

"We're seeing a lot of activity in IoT in the healthcare space - a lot of new devices coming in. We are seeing a huge demand in building smart offices, smart infrastructures, smart cloud applications," explained Shrikant Pattathil, President of Harbinger Systems, in this SYS-CON.tv interview at 17th Cloud Expo, held November 3-5, 2015, at the Santa Clara Convention Center in Santa Clara, CA.
Dec. 18, 2015 04:45 AM EST Reads: 342

[video] Monetization of Everything

By Pat Romanski

"IoT is going to be a huge industry with a lot of value for end users, for industries, for consumers, for manufacturers. How can we use cloud to effectively manage IoT applications," stated Ian Khan, Innovation & Marketing Manager at Solgeniakhela, in this SYS-CON.tv interview at @ThingsExpo, held November 3-5, 2015, at the Santa Clara Convention Center in Santa Clara, CA.
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[video] Solgenia's Big Data and Analytics
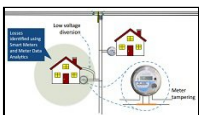
By Pat Romanski

"As a technology provider we believe that business comes first and customers should start thinking that technology is something that helps them to enable new business models," stated Ermanno Bonifazi, Founder and CEO of Solgenia, in this SYS-CON.tv interview at 17th Cloud Expo, held November 3-5, 2015, at the Santa Clara Convention Center in Santa Clara, CA.
Dec. 18, 2015 02:00 AM EST Reads: 383

[slides] Applying IoT to Reduce Power Losses

By Pat Romanski

Electric power utilities face relentless pressure on their financial performance, and reducing distribution grid losses is one of the last untapped opportunities to meet their business goals. Combining IoT-enabled sensors and cloud-based data analytics, utilities now are able to find, quantify and reduce losses faster – and with a smaller IT footprint. Solutions exist using Internet-enabled sensors deployed temporarily at strategic locations within the distribution grid to measure actual line loads.
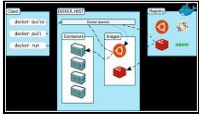
Dec. 18, 2015 01:45 AM EST Reads: 414

[slides] Docker Containers OTA for IoT

By Pat Romanski

Most of the IoT Gateway scenarios involve collecting data from machines/processing and pushing data upstream to cloud for further analytics. The gateway hardware varies from Raspberry Pi to Industrial PCs. The document states the process of allowing deploying polyglot data pipelining software with the clear notion of supporting immutability. In his session at @ThingsExpo, Shashank Jain, a development architect for SAP Labs, discussed the objective, which is to automate the IoT deployment process from development to production scenarios using Docker containers.

Dec. 17, 2015 09:30 PM EST Reads: 567

2016: Docker, Microservices, JavaScript

By Elizabeth White

ThoughtWorks has issued the latest Technology Radar, an assessment of trends significantly impacting software development and business strategy. The Technology Radar sets out the current changes in software development - things in motion to pay attention to based upon ThoughtWorks' day-to-day work and experience solving their clients' toughest challenges. "With the threat landscape still evolving, our latest edition of Technology Radar continues to focus on security and innovative approaches," said Dr. Rebecca Parsons, CTO of ThoughtWorks. "In addition, we are seeing exciting growth and inv...

Dec. 17, 2015 09:00 PM EST Reads: 533

[video] Infrastructure as a Toolbox

By Elizabeth White

Countless business models have spawned from the IaaS industry – resell Web hosting, blogs, public cloud, and on and on. With the overwhelming amount of tools available to us, it's sometimes easy to overlook that many of them are just new skins of resources we've had for a long time. In his general session at 17th Cloud Expo, Harold Hannon, Sr. Software Architect at SoftLayer, an IBM Company, broke down what we have to work with, discussed the benefits and pitfalls and how we can best use them to design hosted applications.

Dec. 17, 2015 06:15 PM EST Reads: 516

[slides] IoT = Big Data: How Will Cloud Evolve?

By Liz McMillan

Organizations already struggle with the simple collection of data resulting from the proliferation of IoT, lacking the right infrastructure to manage it. They can't only rely on the cloud to collect and utilize this data because many applications still require dedicated infrastructure for security, redundancy, performance, etc. In his session at 17th Cloud Expo, Emil Sayegh, CEO of Codero Hosting, discussed how in order to resolve the inherent issues, companies need to combine dedicated and cloud solutions through hybrid hosting – a sustainable solution for the data required to manage IoT de...

Dec. 17, 2015 04:15 PM EST Reads: 345

How to Sponsor and Exhibit at @ThingsExpo

By Carmen Gonzalez

With major technology companies and startups seriously embracing IoT strategies, now is the perfect time to attend @ThingsExpo 2016 in New York and Silicon Valley. Learn what is going on, contribute to the discussions, and ensure that your enterprise is as "IoT-Ready" as it can be! Internet of @ThingsExpo, taking place Nov 3-5, 2015, at the Santa Clara Convention Center in Santa Clara, CA, is co-located with 17th Cloud Expo and will feature technical sessions from a rock star conference faculty and the leading industry players in the world. The Internet of Things (IoT) is the most profound cha...

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How to Present at @ThingsExpo New York

By Carmen Gonzalez

Internet of @ThingsExpo, taking place June 7-9, 2016 at Javits Center, New York City and Nov 1-3, 2016, at the Santa Clara Convention Center in Santa Clara, CA, is co-located with the 18th International @CloudExpo and will feature technical sessions from a rock star conference faculty and the leading industry players in the world and ThingsExpo New York Call for Papers is now open.

Dec. 17, 2015 03:15 PM EST Reads: 804

[session] Regaining End User Control of IoT Data

By Elizabeth White

As the Internet of Things gains further ubiquity, data on consumer lifestyles and habits will take on increased value to IoT manufacturers and their ecosystem of partners. In today's era of digital user empowerment ought not users have the ability to control how their data is shared, with which parties and to have a digital data trail over their data? In her session at @ThingsExpo, Evelyn de Souza, Data Privacy and Compliance Strategy Leader at Cisco Systems, will propose an ecosystem-industry-wide approach for enhanced end user data control and for providers a model for digital trust and sa...

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