

STANDARDS FOCUS: Tell us about Senslytics.

Dr. Chakraborty: [Senslytics](#) is an IoT Analytics Software startup based in the Silicon Valley and Atlanta. We cater to various vertical markets, currently targeted only to Oil and Gas and Compliance industry around the Government.

We believe the IoT is going to change the entire technology landscape within a decade. That depends on a few things, though, one being an interoperable platform that can digest information from many sources and can produce real time insights. Our configurable platform called "5.5. Sense Suite" is just that—we're not quite at the level of having a "sixth sense" about upcoming emergencies yet, but that's what we are aiming for.

Emergencies are not accidental. They can be scientifically predicted. I always say, "Emergencies are caused by well coordinated set of events, just they happen in an unobserved space." With the advent of IoT, we are increasing the *observable space*, thus if we can use the power of IoT and combine with Data Science, we should be able to minimize emergencies to almost zero. We provide two specific solutions: equipment monitoring for prevention of emergency failure in upstream oil business, and Compliance-As-A-Service ensuring emergencies are avoided.

What do you mean by "Compliance-As-A-Service?"

It's really "Predicting-Non-compliance-As-A-Service." It is this insight and forewarning that can stop emergencies from happening.

In today's global and online business, the definition of compliance is expanding beyond regulatory compliance. For example, when we buy products from an unknown seller in eBay or we order the cab services from Uber, we need to feel confident that somehow the transaction will be protected in terms of quality, security, value for money and timeliness. The same things go for non-service industries such as manufacturing, where the offshore production facility and the vendors around the world have to be in a coherent cooperation in order to achieve the desired speed of production with the quality, thus keeping the product competitive in the market.

So you can see, the compliance need is more pervasive than it appears. Compliance can be around Regulations, Interoperability, Environment, Human Safety, International trade and practices, Fiduciary responsibility and reporting, Service level agreements etc. Many times compliance is required for different reasons, however without a standard approach, we cannot achieve this.

What's your company's interest in standards?

As I pointed out, without a standard we cannot achieve compliance globally for various industry sectors. That is why we are building the compliance layer in the IoT architecture. We are a contributing member of the IEEE P2413™ IEEE IoT Work Group. We are in serious engagement with various industry verticals and regulatory

compliance bodies to bring out the key elements of enabling automated compliance through IoT.

Do you participate in standards with other SDOs?

Not directly. The IEEE gives us the global reach and the IEEE P2413 WG works with many organizations.

How well has the IEEE process worked for you?

It has been a phenomenal experience in participating in the IEEE P2413 WG. It is an active group with lots of industry leaders having great mind, ideas and experience. The awareness around IoT-driven compliance is not there yet, so IEEE is tremendously important in helping us promote the concept and spread the word.

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