
Dear Reader:

The Industrial Internet of Things (IIoT) has experienced tremendous growth over the last several years, and expectations are that the growth curve will continue to accelerate upward. The amount of data new or expanded IoT systems are generating is staggering. According to a recent International Data Corporation (IDC) study, by 2025 the amount of data generated annually by the estimated 41.6 billion connected IoT devices is expected to be approximately 79.4 zettabytes (79.4 billion terabytes).¹ Clearly the role of Big Data in IoT will only continue to accelerate in the coming years, and organizations that deploy IoT systems will need to use foresight in deciding how to manage the massive amounts of data that will be generated. Nowhere is this truer than in Intelligent Transportation. IDC estimates that industrialization and automotive IoT solutions will experience a 60% compound annual growth rate as compared to the overall IoT CAGR of 28% through 2025. Other forms of transportation will most likely experience this same level of growth.

In this issue, we focus on *Innovations in Intelligent Transportation*. Intelligent Transport Systems (ITS) provide a broad range of innovative services for single- and multi-model public, private and commercial transport in existing and planned transport networks. Key aspects of ITS include Over-the-Air bi-directional data flows, connected vehicles, big data, Artificial Intelligence, mobility and autonomous systems. The Industrial Internet Consortium (IIC) looks at these topics in the Automotive Task Group, as well as other activities in the organization. As you read through this issue, we hope you find the articles and testbed report to be informative, enlightening, thought provoking and beneficial to your own IoT initiatives.

- François-Frédéric Ozog from Linaro looks at Over-the-Air Transport and why it is important for ITS
- Howard Kradjel, IIC VP of Industry Programs, interviews Yaling Zhou from Huawei Technologies regarding the IIC LTE for Metro Testbed in our ongoing *Outcomes, Insights and Best Practices from IIC Testbeds* series.
- Hasse Römer and Liam David Forde of Ericsson discuss the need for and steps necessary to create the much needed Internet of Logistics, including the role of standardization and data sharing.
- Ken Vaughn of Trevilon, Junichi Hirose of HIDO Japan and Dr. Mitch Tseng of Tseng InfoServ explore the varied aspects of data model standardization, report on the work of ISO Technical Committee 204 and others and make recommendations regarding the creation of a common logical data model for ITS.
- Cheryl Rocheleau provides important updates on IIC activities in “What’s New at the IIC.”

We hope you enjoy this edition and encourage you to reach out to us for opportunities to publish your own thought-provoking topics in future editions.

Best Regards,

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¹ International Data Corporation. The Growth in Connected IoT Devices Is Expected to Generate 79.4ZB of Data in 2025, According to a New IDC Forecast. 18 June 2019. <https://www.idc.com/getdoc.jsp?containerId=prUS45213219>