
Dear Reader:

Welcome to this edition of the Journal of Innovation. As we go to press, we have just finished up a very successful Industrial Internet Consortium Quarterly meeting in Chicago, Illinois where examples of IIC thought leadership abounded. An entire day was devoted to Intelligent Transport Systems and all groups made significant contributions to this very important aspect of IIoT. Many are now spending time preparing for next month's [IoT Solutions World Congress](#) event in Barcelona. This will be the third time around for what has become globally recognized as THE must attend event in this space.

This edition of the JoI focuses on Trustworthiness. *Trustworthiness* is the degree of confidence one has that the system performs as expected. Characteristics include safety, security, privacy, reliability and resilience in the face of environmental disturbances, human errors, system faults and attacks (Source: Industrial Internet Vocabulary Technical Report, IIC). Trustworthiness is arguably more important to an IIoT system than security alone. The IIC Security Working Group and Trustworthiness Task Group take the lead in this important area, making significant progress in driving awareness and realizing tangible deliverables. Our experts dive deeper into trustworthiness with topics covering:

- An introduction to Trustworthiness (a great place to start in this edition)
- Principle usage of the IIC's Trustworthiness Model to design modern IIoT systems
- Trust can be very subjective, so an effective trustworthiness representation must be intuitive and re-assuring
- The key to trustworthiness is through explicit requirements and concerns captured and conveyed as standardized structured assurance cases
- Trustworthiness is not just a onetime event, but rather a journey that can be piloted by a carefully designed program
- The foundation and rationale for managing trustworthiness in practice and how best to measure it
- Leveraging the IIC Security Maturity Model by extending it to consider all aspects of trustworthiness, enabling intelligent decisions on how to move forward
- An executive overview of the previously published *Key Safety Challenges* white paper
- How a resilience model helps understand the importance of resilience as part of trustworthiness and establishes a formal base for a resilience framework

This edition also showcases the results of the Smart Manufacturing Connectivity for Brown-field Sensors Testbed and ends with important updates on IIC activities in *What's New at the IIC*.

Best Regards,

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