OBJECT MANAGEMENT GROUP ®

Putting IoT to work™

Data Distribution Service A protocol for the IIoT which enables network interoperability for connected machines. It provides scalability, performance, and Quality of Service required by IIoT applications.

Structured Assurance Case Metamodel Devices and networking capabilities in the IIoT are manufactured by different companies with different security and reliability standards. This specification creates exchange sets of auditable claims, arguments, and evidence to compare security and reliability standards of different systems and devices.

Dependability Assurance Framework For Safety Sensitive Consumer Devices Will aid in the transmission of information between automobiles and the Internet. Capabilities include ensuring vehicles don't crash into each other, pedestrians, buildings, etc.

Unified Component Model for Distributed, Real-Time and Embedded Systems A simple, lightweight, middleware-agnostic, and flexible component model – perfect for IIoT systems. Allows the use of multiple protocols to provide communication in a single system.

Threat Modeling Combats security concerns of devices gaining access to each other. With threat modeling, engineers will be able to build system-of-systems that implement and leverage the capabilities to share threats and security attacks across different devices and systems.

Oil and Gas Risk Management Monitoring conditions makes it possible to optimize operations – drilling faster and more accurately – as well as predict and prevent failures that delay production.

Interaction Flow Modeling Language (IFML)
IFML is designed for expressing the content, user interaction and control behavior of the front-end of applications. Its use in modeling the front end of software applications perfectly complements other modeling dimensions in broad system modeling projects - including complex systems found in the Industrial Internet of Things.

Interested in getting involved with IIoT standardization efforts?

Email our Business Development team (**bd-team@omg.org**) to get started!