

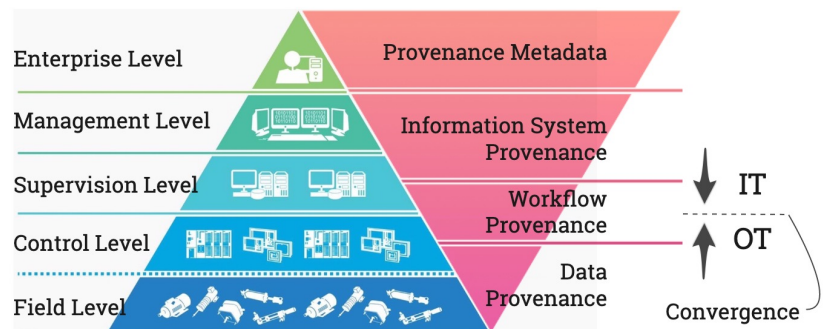
Towards Provenance Integration for Field Devices in Industrial IoT Systems

Iori Mizutani, Jonas Brütsch, and Simon Mayer

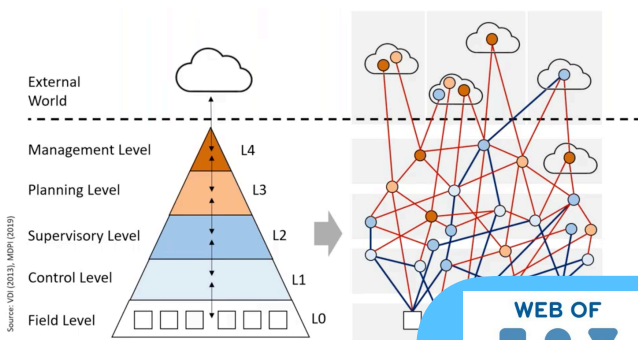
Integration of provenance about field devices promote the **IT/OT convergence**

Industrial Internet of Things (IIoT) systems are becoming increasingly complex with interconnected field devices. To cope with the complexity and to facilitate further interoperability between heterogeneous field devices, it is necessary to have a holistic understanding of different types of provenance information about field devices and associated processes.

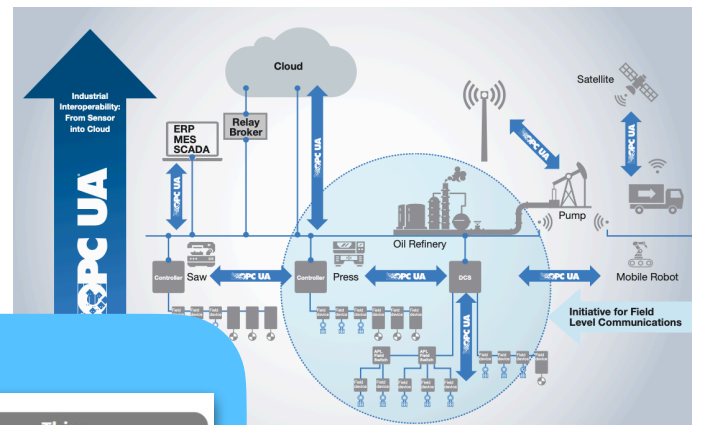
In this poster, we investigate the potential integration of such provenance with the W3C Web of Things and current industrial standards to realize more explainable, efficient, and safer industrial IoT systems.



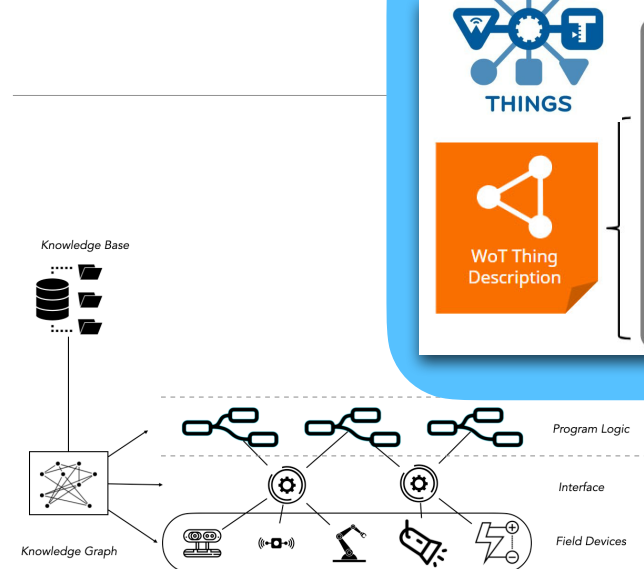
Provenance Metadata



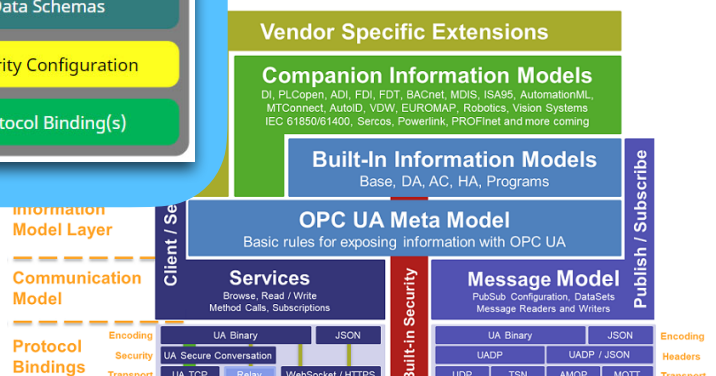
Information System Provenance



OPC UA for Field Level Communications – A Theory of Operation. Tech. Rep. Version 1, OPC Foundation, November 2020. <https://opcfoundation.org/tlc/>



Workflow Provenance



Data Provenance