

17th IAA SYMPOSIUM ON VISIONS AND STRATEGIES FOR THE FUTURE (D4)
Interactive Presentations - 17th IAA SYMPOSIUM ON VISIONS AND STRATEGIES FOR THE
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NEW SUPPLY CHAIN METHODS USING BLOCKCHAIN, 'NEXT GENERATION OF
TRACEABILITY' FOR AEROSPACE INDUSTRY.

Abstract

We study the strengths and limitations of blockchain (distributed ledger) technology in its application as a reliable system of proof of ownership for digital (data provenance) and physical assets (parts).

Main goal of the paper is to demonstrate viability of the technology and how it works across the technology stack to solve the specific customer problem. Given the time constraints of the project and the limited resources the main emphasis is not on delivering a solution that is architecturally perfect, ready for enterprise-wide deployment and is scalable to meet demands of an extensive real world supply chain.

What we aim for is to demonstrate a feasibility of blockchain technology stack that seamlessly interacts together and can be explored by the intended users in an interactive fashion to use the technology in aerospace supply chains.

We focus on two main topics: 1. Geospatial data provenance with help of blockchain and DLT 2. Supply chain parts and blueprints traceability using blockchain

We can also have a number of interactive technology sessions