

Abstract

Historically, the Authorized Release Certificate (ARC) regulatory requirement of providing part lifecycle traceability has been accomplished with paper documentation. The associated cost of compliance is substantial, and the method is error prone. Digitization of ARC-related artifacts offers the ability to simplify compliance by quickly searching and retrieving the supporting documentation.

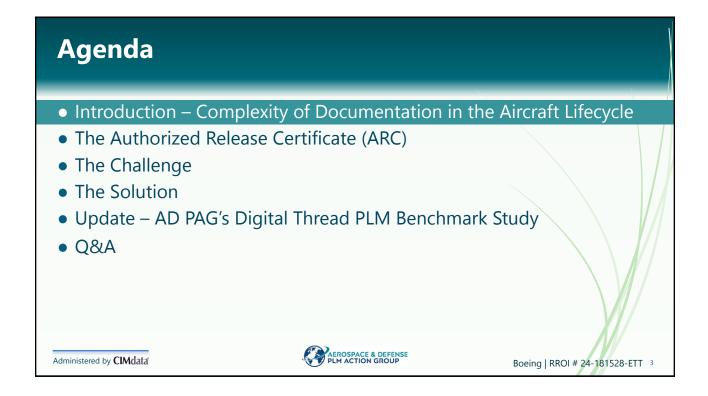
The use of digital thread combined with distributed ledger technology has proven to be a successful digital solution. The ARC digital thread addresses the digitization, traceability, provenance, and accessibility of part data across the part product lifecycle from design to final disposition and illustrates the broader potential of A&D ecosystem interoperability.

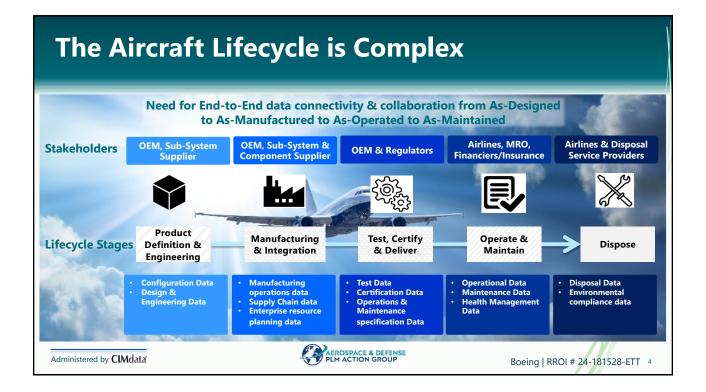




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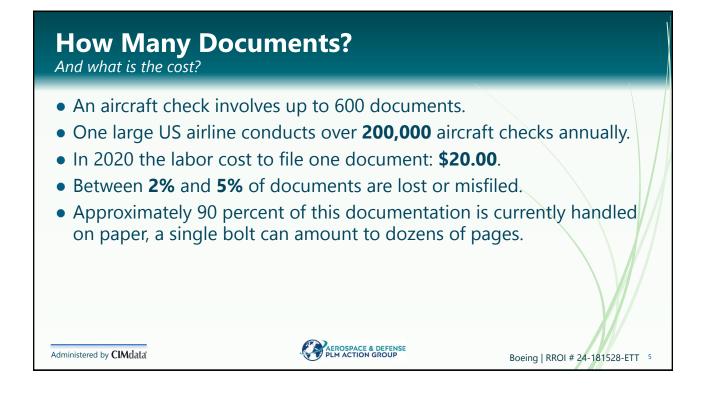






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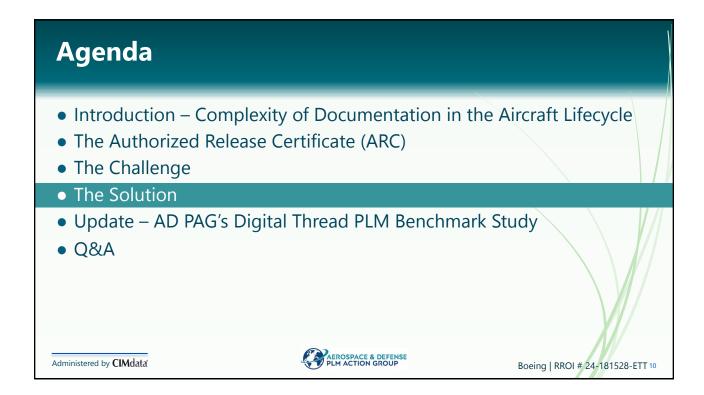


What is an Authorized Release Certificate?						
• The ARC form is used to verify identification and enable traceability of products and articles throughout the global aviation system	4. Organization Name and Address:	FAA Form 8130-3, AIRWOF	EASE CERTIFICATE ATTINESS APPROVAL TAG 9 unattly: 10. Sorial Number:	3. Farm Fracking Number: 5. Work Order/Contract Invoice Number: 11. Sonus/Work:		
<ul> <li>The originator must retain FAA Form 8130-3 for no less than 5 years for products and articles, and 10 years for critical parts</li> </ul>	Ds. Certifies the lense identified above were manufactured in confermity to:					
<ul> <li>Form 8130-3 may be completed and retained in an electronic format, provided the electronic file contains all of the information required on FAA Form 8130-3</li> </ul>	Approved design data and are in a condition     Non-approved design data specified in Block     I3b. Authorized Signature:     I3d. Name (Typod or Printed):		Certains that anness untervice speciate in noise and described in Biok.2 was accomplished in Federal Regulations, part 43 and in respect to th return to service. 14b. Authorized Signature: 14d. Name (Typed or Printed):	accordance with Title 14, Code of		
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Agenda		
<ul><li>Introduction – Complex</li><li>The Authorized Release</li></ul>	<b>,</b>	the Aircraft Lifecycle
• The Challenge		
<ul> <li>The Solution</li> <li>Update – AD PAG's Digi</li> <li>Q&amp;A</li> </ul>	tal Thread PLM Benchma	ark Study
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The Challenge				
Improve the quality certification documentation by establishing a digital data exchange format for quality certification documents in the aerospace sector				
The Goal				
Estimated that the aerospace industry could save €80 million annually in Europe alone by digitizing quality certification documentation.				
The Prototype				
The Cert-Trace platform developed by Helmes allows all parties to the supply chain to upload and store certificate-of-conformity documentation on a secure encrypted cloud.				
Reference: https://www.helmes.com/airbus-adopts-software-solution-developed-by-helmes/				
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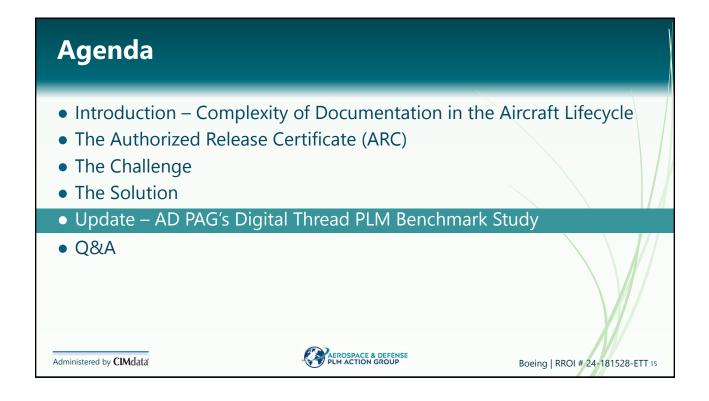


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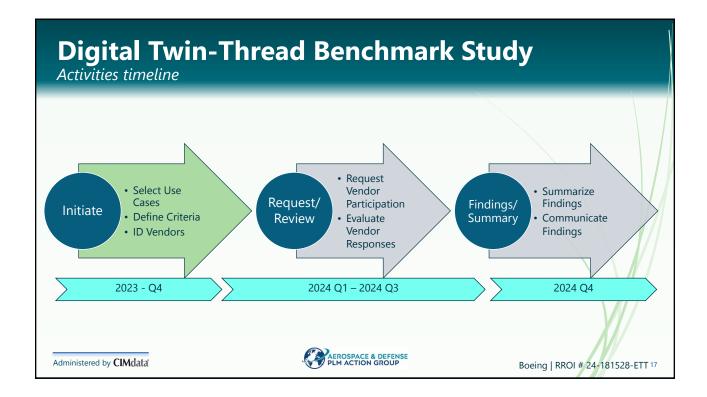


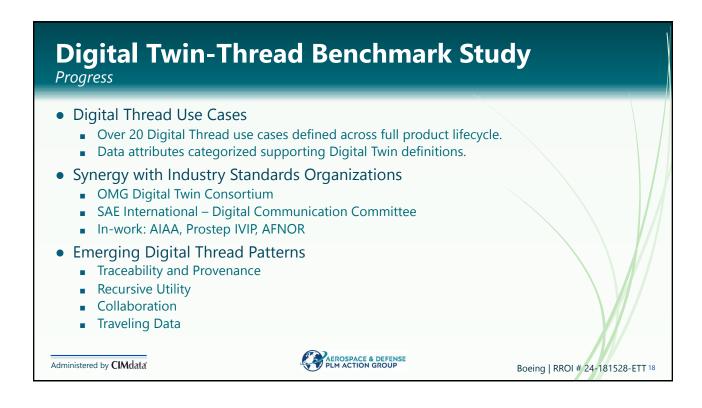






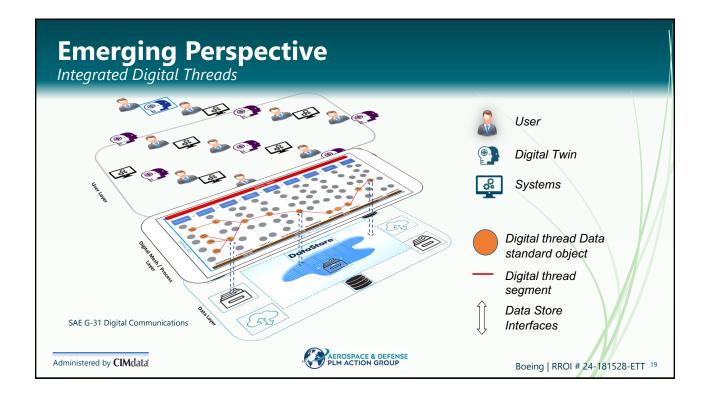








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# **Questions and Answers** What's on your mind?



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