Thales Watchkeeper – Lessons from a review for Civil Certification of a Military RPAS
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CAA Objectives

- To understand –
  - the RPAS design and operation
  - The military certification approach

- To determine –
  - The assumptions made for the design and operation
  - How the military and civil requirements compare
  - How requirement gaps or inconstancies could be addressed
  - If the traditional certification process requires changing
  - Potential cost implications
Methodology

- Series of meetings and discussions
Lessons (1)

- Regulations:
  - Commission Regulation (EU) No 748/2012 of 03/08/2012 (Part 21)
    (rules for the airworthiness and environmental certification of aircraft and related products, parts and appliances, as well as for the certification of design and production organisations)
    (continuing airworthiness of aircraft and aeronautical products, parts and appliances, and on the approval of organisations and personnel involved in these tasks)
    (technical requirements and administrative procedures related to civil aviation aircrew)
  - Commission Regulation (EU) No 965/2012
    (technical requirements and administrative procedures related to air operations)
Lessons (2)

- Requirements:
  - Certification Specifications –
    - CS-23 – Small/Commuter Aeroplanes
    - CS-25 – Large Aeroplanes
    - CS-E – Engines
  - AMC-20 – General Acceptable Means of Compliance
- Process / Procedures
  - Certification
  - Organisation (Design – Production)
- Costs
Thank You