



Australian Government

Department of Defence

Defence Aviation Safety Authority

Update on the DASR Campaign

Aircraft Airworthiness and Sustainment (Australia) Conference

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20 Jul 17



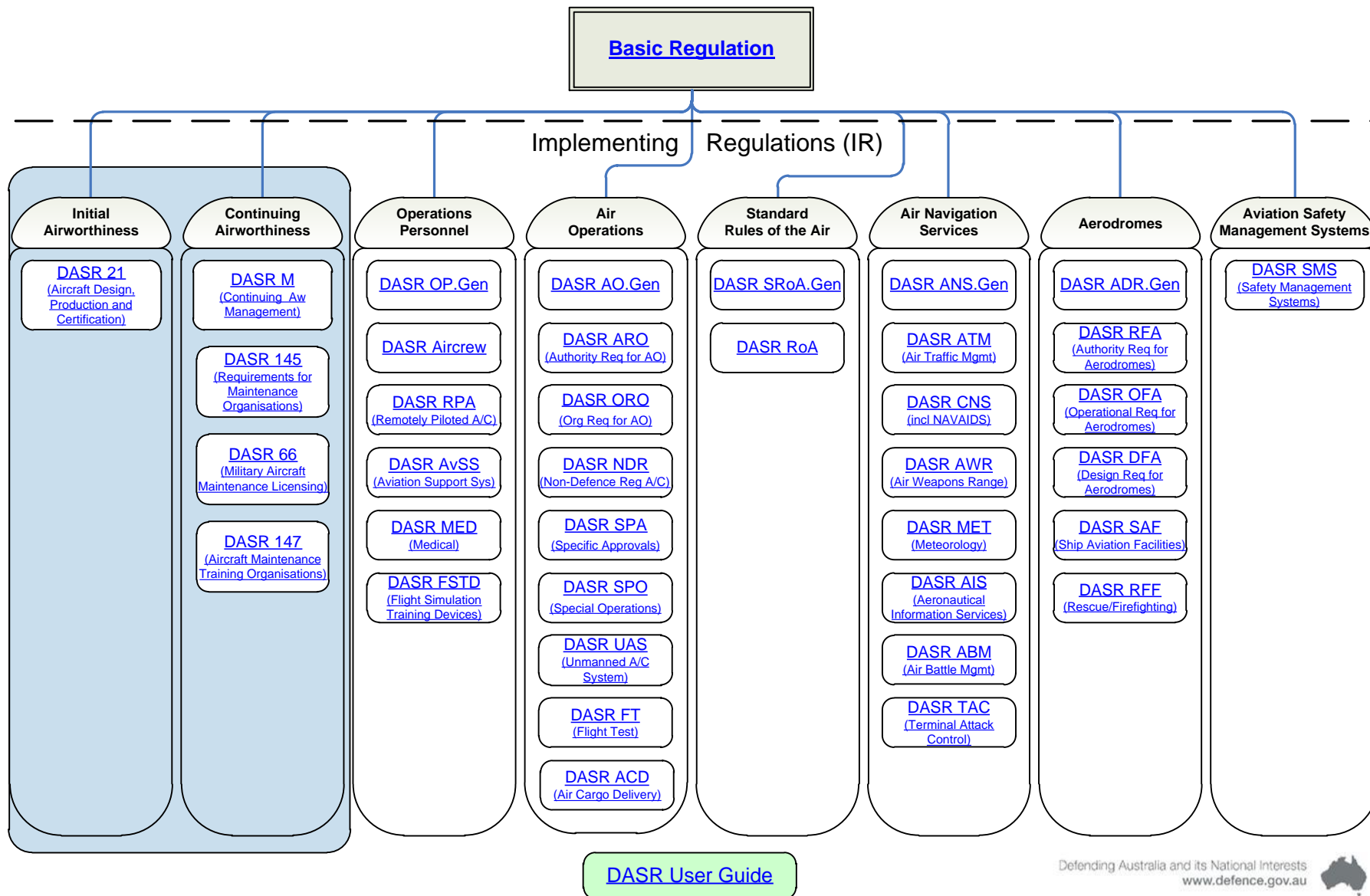
Defence Aviation Safety Authority



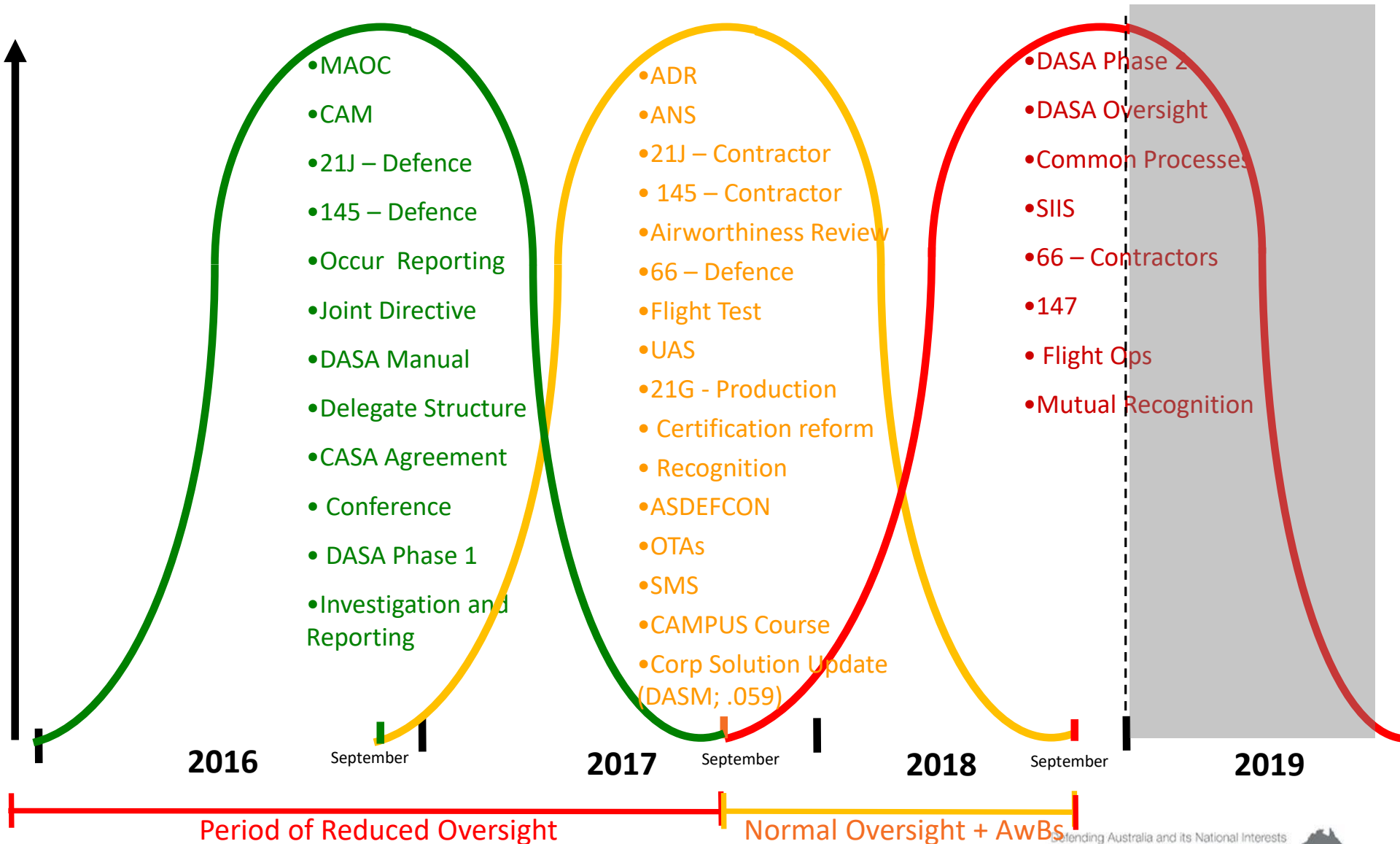
WHY DASR?



Defence Aviation Safety Regulation (DASR)



UNCLASSIFIED DASA /DASR Campaign Tranches





ORGANISATIONS





- MAO
 - ACG, SRG, AMG, AFTG, AWC, 16AVN BDE, FLEET AIR ARM
- CAMO
 - 7 CAMO established (one per MAO)





- Design Organisations (MDOA under DASR)
 - 54 AEO prior to Sep 2016 transition
 - Currently 14 MDOA and 28 AEO
 - On track for (end 2017):
 - 23 MDOA
 - 0 AEO
 - 3 engineering organisations recognised for M.A.304(d)





- AMO
 - 69 AMO under TAREG prior to Sep 16 transition
 - 44 AMO and 10 Pt145s following Sep 16 transition
 - Currently 13 Pt145 and 41 AMO operating under TAREG approval
 - On track for (end 2017)
 - Remaining 41 AMO to transition for a total of 32 Pt145 approvals
 - 57 non-DASR organisations providing maintenance services via M.A.201(I) derogation





- Military Production Organisation (POA)
 - None yet established
 - DAVCOMP engagement for 21G or F industry applications
- Military Training Organisations (MTO)
 - None yet established
 - In consultation with training organisations and AMOs





REGULATION





DASR 145 – Maintenance Organisations

- 30 Sep 16 - Provisional Release
- 31 Jan 17 - Authoritative Release
- 30 Sep 17 - Updated (EMAR updates for Reg & AMC / GM))





DASR M – Continuing Airworthiness Management

- 30 Sep 16 - DASR Provisional Regulation
- 31 Jan 17 - Authoritative Release
- Understanding of:
 - CAMO delineation from AEO and AMO functions
 - Military Airworthiness Review Certificates (MARC)s
- 30 Sep17 – EMAR update roll-in of AMC & GM (minimal impact)





DASR 21 – Initial Airworthiness

- 30 Sep 16 - DASR Provisional Regulation
 - Flight Test provisions within MPTF
- 31 Jan 17 - Authoritative Release (inclusive of EMAR Ed1.2)
 - Military Type Certificate Holder
 - Military Permits to Fly
- 30 Sep17 – Update – (plus EMAR Ed 1.2 remainder)





DASR 66 – Licensing (Maintenance Personnel)

- 31 Jan 17 – Initial Release
- NPA 01/2017 feedback incorporated
- 30 Jun 2017 – Final release





Schedule for Civilian Military Aircraft Maintenance Licence

- Issue of ADF MAML commences in Aug 17
- Civilian MAML:
 - ‘now’ - education
 - Dec 17 – civilian applications ‘open’
 - Mar 18 – civilian applications ‘closed’
 - Apr 18 - DASA generates draft MAMLs for review
 - May/Jun 18 – industry applicants repechage draft MAMLs
 - Jul/Aug 18 – DASA issues MAML V1.0 to successful applicants
 - Sep 18 – ADF and Defence Industry maintainers hold MAMLs
- New entrants to ADF & Defence Industry processed in parallel as they arise





DASR 147 – Maintenance Training Organisations

- Jan 2018 - Initial release planned
- Mar 2018 - Final release planned (NPA response input)
- Discussions have taken place with some training organisations (ADF and contractor)



DASR SMS – Safety Management Systems

- 30 Sep 16 – DASR Provisional Regulation
- 31 Jan 17 – Authoritative Release (no change)
- 30 Sep 17 – Updated GM and release of completed Gap Analysis tools required by many organisations.

1. Safety policy and objectives

- 1.1 Management commitment and responsibility
- 1.2 Safety accountabilities
- 1.3 Appointment of key safety personnel
- 1.4 Relevant third party relationships and interactions**
- 1.5 Coordination of emergency response planning
- 1.6 SMS documentation

2. Safety risk management

- 2.1 Hazard identification
- 2.2 Safety risk assessment and mitigation

3. Safety assurance

- 3.1 Safety performance monitoring and measurement
- 3.2 The management of change
- 3.3 Continuous improvement of the SMS

4. Safety promotion

- 4.1 Training and education
- 4.2 Safety communication



Operational Regulation

- Direct translation from MILAVREG / OAREG
- Authoritative release on 30 Sep 16
- Encompasses
 - Air Operations
 - Air Operations Personnel
 - Air Navigation Systems
 - Standard Rules of the Air
 - Aerodromes





DASR UAS – Unmanned Aerial Systems

- 30 Sep 16 – DASR Provisional Regulation
- 31 Jan 17 – Authoritative Release (no change)
- 30 Sep17 – Replacement with new UAS regulations
- UAS categories
 - Certified
 - Aligned to EASA
 - Specific Category
 - Aligned to EASA
 - Open Category
 - Aligned to Aus Civil Aviation Safety Authority '*Excluded Category*'





DASR UAS – Unmanned Aerial Systems

- Certified UAS
 - Intended for UAS operations where the operator expects to operate in all airspaces and over all populations
 - Linkage to same initial, continuing airworthiness DASR applicable to a manned aircraft
- Specific UAS
 - Intended for UAS operations where the UA is not certified to aircraft airworthiness standards. Increased operational constraints and risk assessment provide justification for safe operation. UAS may operate in either:
 - an Authority-published 'Standard Scenario', or
 - under an Authority issued UAS Operating Permit
 - Flexibility with initial and continuing airworthiness obligation set by the authority





DASR UAS – Unmanned Aerial Systems

- Open Category
 - Micro UAS (< 0.1 kg) shall:
 - Have constraints on being operated line of sight, operated no higher than 400 ft AGL, daytime, constrained location etc
 - Very Small UAS (0.1–2 kg), in addition to the requirements and limitations for Micro UAS, shall:
 - not operate near controlled aerodromes (anticipate 3nm) and people
 - not operate over populous areas
 - Small UAS (2–25 kg), in addition to the requirements and limitations for Very Small UAS, shall:
 - only operate over land controlled by Defence.





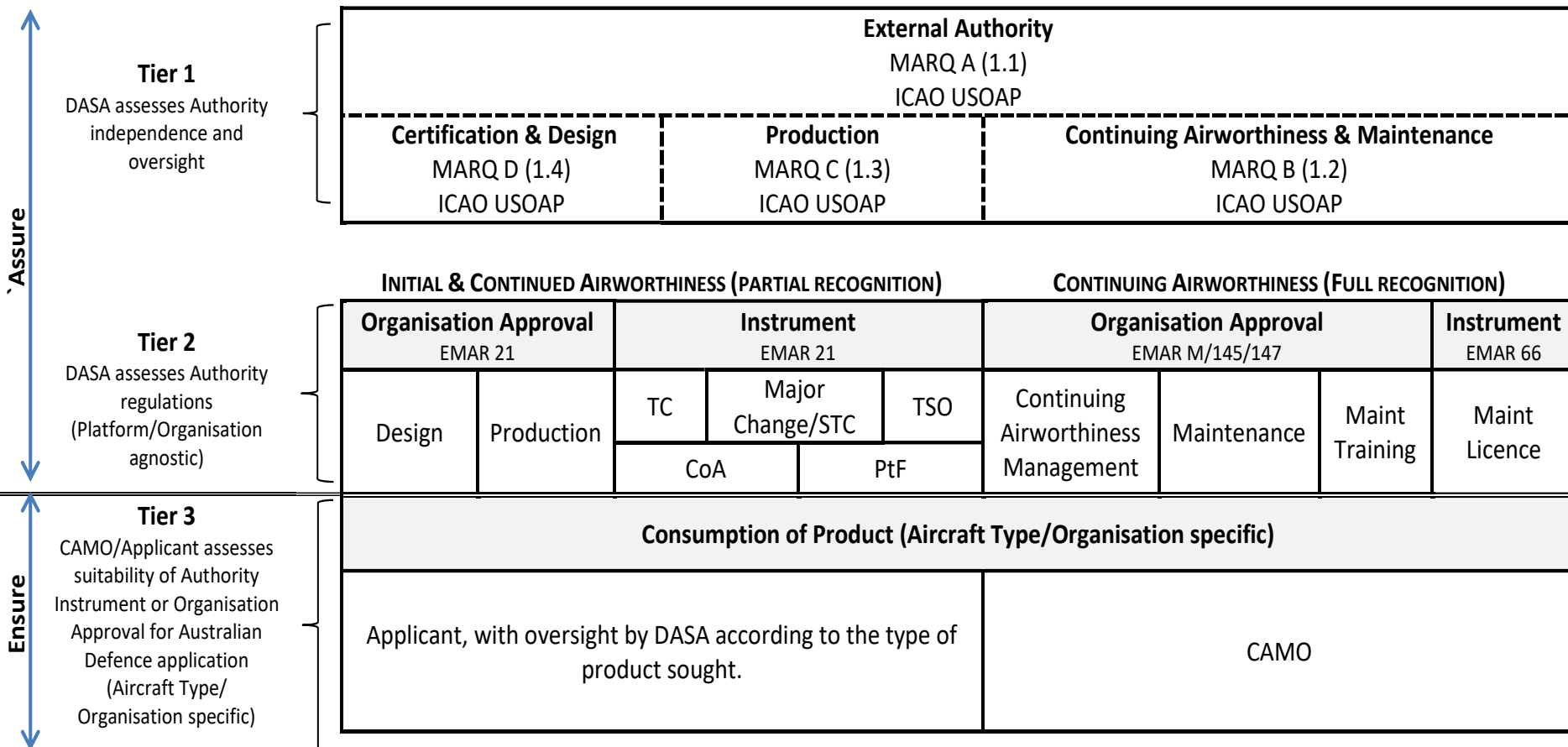
Basic Regulation

- Flexibility Provisions



RECOGNITION



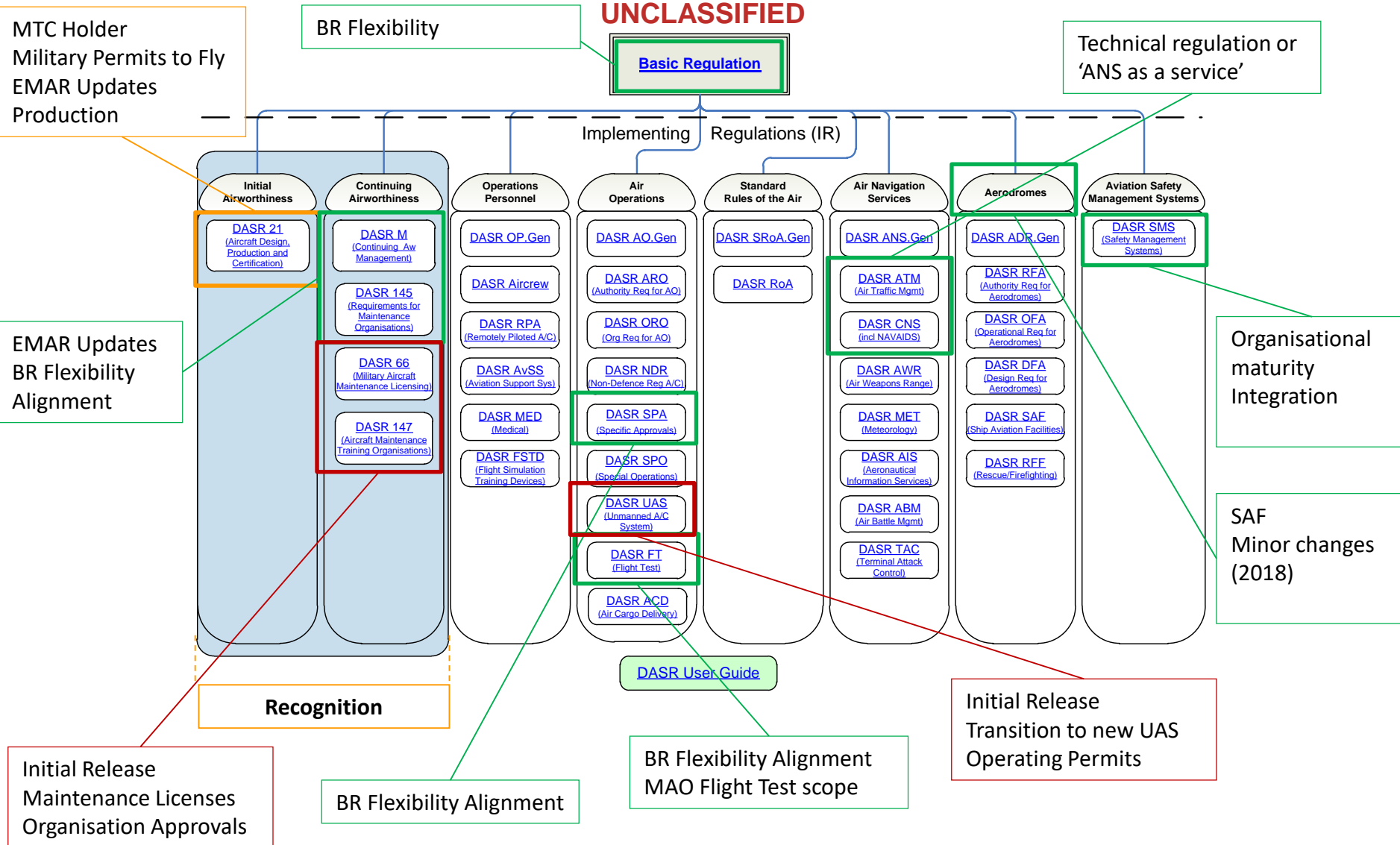


- Updated Recognised Aviation Safety Authorities
 - Department of National Defence – Canadian Armed Forces (CAF)
 - New Zealand Defence Force (NZDF)
 - Republic of Singapore Air Force (RSAF)
 - US DoD – Air Force (USAF), US Navy (USN), US Army
 - Switzerland NAA - FOCA
- In Progress
 - DASA recognition of France, Spain and Italy National Military Airworthiness Authorities (NMAA)
 - Recognition of DASA by Italy, Netherlands, Norway, Denmark, Turkey and Spain NMAA
- Scheduled by end 2017
 - DASA recognition of UK and Germany NMAA
 - Recognition of DASA by UK NMAA



CONCLUSION





UNCLASSIFIED

QUESTIONS



Defence Aviation
Safety Authority

UNCLASSIFIED