



EUROPEAN AVIATION SAFETY AGENCY  
AGENCE EUROPÉENNE DE LA SÉCURITÉ AÉRIENNE  
EUROPÄISCHE AGENTUR FÜR FLUGSICHERHEIT

# **CS-ACNS (Certification Specification Airborne Communications, Navigation and Surveillance)**

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# Overview

- Why a CS and not AMC 20
- Applicability
- Structure (Books, Subparts and Sections) including relationship to existing TGLs and AMCs
- Next to come
- Regulation (EU) No 1207/2011



# Why CS and not AMC

- Accepted Means of Compliance (AMC) ok, but to what requirement? => Certification Specification (CS)
- EASA grants Certificates against CS
- SES Interoperability Regulations under Regulation (EC) No 552/2004 accept EASA certification process for the conformity assessment.
  - Certification Process => CS



# Applicability

- For new certification projects TC/STC installing functions described in CS-ACNS
- Selection per applicable Section
  - Not all section may be applicable
  - If applicable, section is applicable in total
- Voluntary for running projects
- Needed for voluntary compliance demonstration against SES Interoperability Regulations

➤ **CS ACNS Book 1 (Certification Specifications)**

Subpart A - General

Subpart B - Communications (COM)

Subpart C - Navigation (NAV)

Subpart D - Surveillance (SUR)

Subpart E - Others

**Book 2 (Guidance Material)**

Subpart A - General

Subpart B - Communications (COM)

Subpart C - Navigation (NAV)

Subpart D - Surveillance (SUR)

Subpart E - Others

Plus Appendices





# Structure (2)

- Book 1 defines the requirements and
- Book 2 provides Accepted Means of Compliance and Guidance material
  
- Section A – General
  - Scope
  - Definitions
  - Instructions for Continued Airworthiness



# Subpart B – Communication (COM)

- SECTION 1 – VOICE CHANNEL SPACING (VCS)
  - Replaces JAA TGL 7 – no new requirements
- SECTION 2 – DATA LINK SERVICES (DLS)
  - New, covered so far with special conditions, supersedes AMC 20-11



# Subpart D - Surveillance (SUR)

- Section 1: Mode A/C only surveillance (CS ACNS.AC); (new)
- Section 2: Mode S Elementary Surveillance (CS ACNS.ELS);
  - Supersedes TGL 13 Rev 1, differences provided in Appendix D
- Section 3: Mode S Enhanced Surveillance (CS ACNS.EHS);
  - Superseeds AMC 20-13, differences provided in Appendix E
- Section 4: 1090 MHz Extended Squitter ADS-B (CS ACNS.ADS)
  - (new addresses ADS-B in radar airspace, different from AMC 20-24 for Non-Radar Airspace)





# Subpart E — Others

- SECTION 1 – TERRAIN AWARENESS AND WARNING SYSTEM (TAWS)
  - Replaces TGL 12, no differences
- SECTION 2 – REDUCED VERTICAL SEPARATION MINIMUM (RVSM)
  - Replaces TGL 6 Rev. 1, no differences



# Next to come

- Subpart C – Navigation (NAV)
  - Currently empty
  - In development to provide certification material for Performance Based Navigation (PBN) in accordance with the ICAO PBN manual



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# Regulation (EU) No 1207/2011

**Performance and the interoperability  
of surveillance for the single European  
sky  
(SPI)**

**Bryan Jolly**  
**ATM Rulemaking Officer**  
*Rulemaking Directorate*

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# What Next



Meeting with  
European  
Commission and  
Airspace User  
associations





# Conclusion

“Consider” aligning the ADS-B implementation dates with the 2020 date of the FAA ADS-B mandate



Review the content of the Regulation,

Exemptions clauses  
Applicability extension



# Way Forward

**Workshop**

THE EVOLUTION OF  
REGULATION  
N°1207/2011

EUROCONTROL  
HQ

**When**

FRIDAY 7 MARCH  
2014 FROM 9:30  
TO 16:45



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**European Aviation Safety Agency**  
**Any questions?**  
**Thank you for your attention**

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