

PANELS AND STUDY GROUPS INVOLVED IN CNS/ATM-RELATED ACTIVITIES

PANEL/STUDY GROUP	WORK PROGRAMME			
	TASKS	TITLE	TARGET COMPLETION DATE	STATUS /RECENT PROGRESS
OPLINKP	ATM-9102	ATS applications for air-ground data links	2004 and beyond	Work continued on draft SARPs, procedures and guidance material relating to the use of ADS, CPDLC and other data link applications.
	ATM-9502	ATM requirements for communication	On-going	The development of the concept of required communication performance (RCP) was completed and distributed to States and international organizations for comments.
	ATM-9506	Automatic dependent surveillance (ADS) systems and procedures	2004	
	ATM-9103	Data interchange between automated ATS systems	2003	Provisions applicable to air traffic services interfacility data communications (AIDC) are being developed.
	ATM-0002	ADS-B, Traffic situational awareness and airborne separation assurance	On-going	Development commenced on an operational concept and operational requirements for the use of a system to increase aircraft situational awareness and airborne separation assurance are being developed.
ACP (formerly AMCP)	CNS-7002	Aeronautical electromagnetic spectrum	On-going task	Work on development and support of ICAO position for WRC-2003 completed.
	CNS-8702	Aeronautical mobile satellite air-ground data link (AMSS subnetwork)	2004	Restructuring of the AMSS SARPs (separation of core from detailed technical specifications) has been initiated.
	CNS-9902	Next-generation AMSS systems	2004	Draft NGSS SARPs to be consolidated with restructured AMSS SARPs.
	CNS-9102	VHF air-ground digital link (VDL subnetwork)	2004	Validation of the detailed technical specification for VDL Modes 3 and 4 completed. An assessment of the use of VDL Mode 4 for communications was completed.
	CNS-9603	Air-ground data link to support navigation and surveillance applications	2004	Validation of the VDL Modes 3 and 4 SARPs completed. Development of draft UAT SARPs initiated.
	CNS-9602	High frequency data link (HFDL)	2004	Validation of detailed technical specifications ongoing.

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ATMCP	ATM-9501	Required total system performance	2002	The first draft of an operational concept document was finalized at ATMCP/1 in March 2002.
	ATM-9202	Global air traffic management	2002 and beyond	
	ATM-9510	Interoperability and functional integration of flight operations, ATS, ATFM and tactical ASM	2002	
ATNP (Disbanded in 2003. Outstanding work is being conducted by the ACP)	CNS-7001	AFS systems planning studies	Completed	SARPs completed. Guidance material being processed for publication.
	CNS-9403	Aeronautical telecommunication network (ATN)	Completed	SARPs for ATN have been completed and incorporated in Annex 10. Current work involves the development of provisions to incorporate Internet Protocol (IP) networks in the ATN and the development of optional message encryption provisions.
	CNS-9901	AFS procedures	Completed	Completed. Further work may become necessary as implementation of new AFS systems progress.
NSP (formerly GNSSP)	CNS-9401	Global navigation satellite system (GNSS)	Completed	First set of SARPs was adopted and included in Annex 10, Volume I as part of Amendment 76 in 2001. Further enhancements to SARPs were incorporated in Annex 10 as parts of Amendments 77 and 79 (the latter is under development). SARPs and guidance material for new GNSS elements are currently being developed.
	CNS-7002	Aeronautical electromagnetic spectrum	Ongoing task (in coordination with AMCP)	

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OCP	OPS-8502	Development of procedures, areas and obstacle clearance criteria for the approach, holding and departure phases of flight for inclusion in PANS-OPS, Volumes I and II	2005-2007	Several issues related to GNSS-based procedures are being investigated. Development of procedures for APV, RNP performance levels less than 0.3 and enhanced DME/DME criteria is being progressed.
	OPS-9802	Development of material for inclusion in PANS-OPS on instrument procedure data base integrity requirements	2005	A quality assurance working group has been established and will study a quality assurance requirements in the development of flight procedures to ensure data integrity.
	OPS-9803	Development of obstacle clearance criteria for vertical navigation in all phases of approach procedures	2005	Initial proposals to be available by November 2003.
	OPS-0201	Development of instrument procedures for helicopter operations at heliports	2005 and beyond	Point in space procedures have been completed and other instrument procedures are being developed. Relevant provisions of Annex 14 (relating to surfaces) are being reviewed. Initial proposals to be available in November 2003.

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SASP	ATM-8505	Required navigation performance and area navigation for en-route operations	2003	SARPs completed. Second edition of Doc 9613, Manual on Required Navigation Performance (RNP) published in 1999. Additional guidance material on approval of aircraft and operators for RNP 10 published in 2001. Similar guidance material for RNP 4 under development.
	ATM-6301	Separation between aircraft	2004 and beyond	Developments of proposals were advanced for the amendment of SARPs and PANS concerning reduced separation minima including: lateral distance-based intersecting track separation; 30 NM oceanic lateral and longitudinal minima based on RNP 4 submitted for publication. Procedures for RNP 4 under development. The implementation of RVSM is continuing to be under review and the revision to the <i>Manual on Implementation of a 300 m (1 000 ft) Vertical Separation Minimum Between FL 290 and FL 410 Inclusive</i> (Doc 9574) is completed.
	ATM-9505	Airspace infrastructure planning	Completed	
SCRSP	CNS-7901	Conflict resolution and collision avoidance systems	2004	Work is concentrating on surveillance enhancements and ADS-B while monitoring ACAS and Mode S implementation in the States. Activities on ASAS are progressing with the preparation of technical requirements for ASAS to be presented at SCRSP/1.
	CNS-9601	Surveillance enhancements (emerging surveillance systems)	2004	A draft ASAS circular has been developed.
	CNS-9701	Airborne separation assurance system (ASAS)	2004	
ADMSG	AIS-9401	Aeronautical data bases	2005	The Secretariat with the assistance of the East Tennessee State University (ETSU) developed an aeronautical communication transfer protocol for the exchange of aeronautical information/data and a prototype of the Computerized Aeronautical Information Services (CAIS) system. Progress on the subject by EURCONTROL/FAA is being monitored. ADMSG to be re-activated to consider latest developments including those arising from the Eleventh Air Navigation Conference.
	AIS-9806	Transfer and access of aeronautical information from ground-based automated systems.	2005	

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AISMAPSG	AIS-9801	Electronic aeronautical charts for cockpit display	2006	Amendment 52 to Annex 4 contained an interim amendment, applicable in 2002, concerning electronic charts for cockpit display. Further work is being progressed in consultation with the SAE G-10 Aerospace Behavioural Engineering Technology Committee, Aeronautical Charting Subcommittee. With regard to electronic terrain data, a proposal for the amendment of Annex 15 and consequential amendments to Annexes 4, 11 and 14, Volumes I and II was circulated for comment and is planned for adoption in 2004.
	AIS-9802	Electronic terrain data	2005	
AUPISG	CNS-0301	Aviation use of the public Internet	2004	Guidelines on the use of the public Internet to be developed.
AVSSSG (Disbanded in 2003. Work is being conducted by the ACP)	CNS-7001	AFS systems planning studies	Completed	The Manual on ATS ground-ground voice communications was published in 2003.
HFSG	PEL-9001	Flight safety and human factors	Completed	Review of SARPs on CNS/ATM, to ensure that Human Factors are properly taken into consideration. SARPs submitted to the Council during the periodic cycles of revision of the relevant Annexes.
HRPTSG	PEL-9601	Regional human resource planning and training needs	Completed	A draft of the Human Resource Development Manual is complete. A Human Resource Planning Seminar was developed and conducted for the first time in the CAR/SAM Regions.
METLINKSG	MET-9101	Amendment to Annex 3 concerning automated air-reporting	On-going	The quality assurance of MET information included in ADS reports being studied. The need for the inclusion of additional MET parameters (e.g. icing) in the MET information data block of the ADS report format is being addressed in coordination with the OPLINKP.
	MET-9301	Uplink of OPMET information to aircraft in flight	2004	Amendment 73 to Annex 3 has been developed which includes meteorological specifications (templates) for D-VOLMET, and other data link applications.
	MET-9601	Development of SIGMET information	2004	Amendment 73 has been developed which includes specifications for the dissemination and uplink of graphical SIGMETs.

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TRNSG	CNS-9402	Testing of radio navigation aids	Completed	The study group produced a new version of Doc 8071, Volume I, <i>Manual on testing of ground-based radio navigation systems</i> (replacing former Volumes I and II). TRNSG/3, 4 and 5 produced Volume II (GNSS) containing guidance material on testing of GNSS-based non-precision approaches, SBAS and GBAS.
	CNS-9401	Global navigation satellite system (GNSS)	Completed	
WAFSOPSG	MET-8802	WAFS planning and implementation	2004	Amendment 73 to Annex 3 has been developed to include global WAFS SIGWX forecasts in binary format (BUFR) code for direct transmission to airline and ATM computers.

LEGEND

ACP — Aeronautical Communications Panel
 ATMCP — Air Traffic Management Operational Concept Panel
 *ATNP — Aeronautical Telecommunication Network Panel
 **GNSSP — Global Navigation Satellite System Panel
 NSP — Navigation Systems Panel
 OCP — Obstacle Clearance Panel
 OPLINKP — Operational Data Link Panel
 SASP — Separation and Airspace Safety Panel
 SCRSP — Surveillance and Conflict Resolution Systems Panel (Former SICASP)

ADMSG — Aeronautical Data Modelling Study Group
 AISMAPSG — Aeronautical Information and Charts Study Group
 AUPISG — Aviation Use of the Public Internet Study Group
 *AVSSSG — ATS Voice Switching and Signalling Study Group
 HFSG — Flight Safety and Human Factors Study Group
 HRPTSG — Human Resource Planning and Training Study Group
 METLINKSG — Meteorological Information Data Link Study Group
 ***TRNSG — Testing of Radio Navaids Study Group
 WAFSOPSG — World Area Forecast System Operations Group

*Disbanded in 2003 — outstanding work to be carried out by the ACP
 **Renamed NSP in 2003
 ***Disbanded in 2003 — outstanding work to be carried out by the NSP