

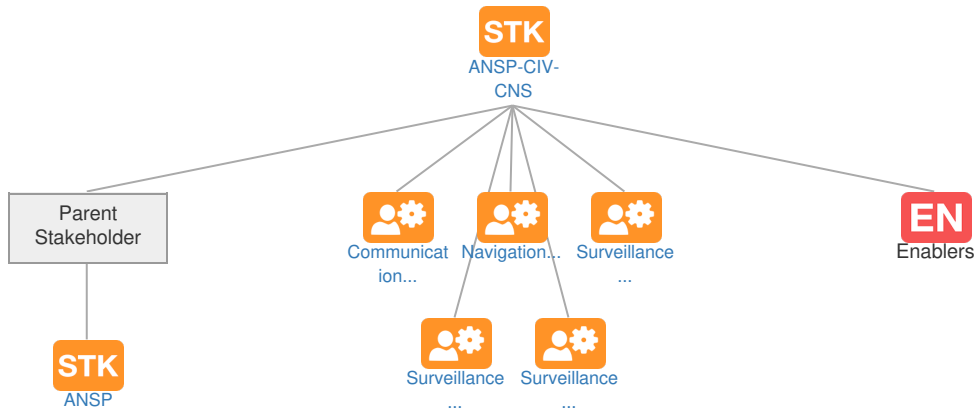


# ANSP-CIV-CNS - Civil CNS Service Provider

A provider of Communication, Navigation or Surveillance services.

## Context

### Related Elements



## STK Parent Stakeholder

Title	Description	Related Elements
Air Navigation Service Provider	A public or private entity providing air navigation services	EN

## STK Child Stakeholders: No associated data

## EN Enablers

Code	Title	IOC	Related Elements	Analysis
AIMS-07a	Generation of Enhanced Pre-flight Briefing based on digital data	31-12-2023	STK OI EN DS	Analysis
CTE-C01	A/G Voice radio	31-12-2012	STK OI DS ⚙️	Analysis
CTE-C01a	Existing Voice radio (VHF 25/8.33KHz)	31-12-2012	STK OI OBJ DS ⚙️	Analysis
CTE-C01b	New Digital A/G Voice	31-12-2029	STK OI DS	Analysis
CTE-C02	A/G Datalink radio	31-12-1980	STK OI DS ⚙️	Analysis
CTE-C02a	A/G datalink over ACARS (POA/AOA)	31-12-1980	STK OI DS ⚙️	Analysis
CTE-C02b	A/G Datalink over ATN/OSI - Single frequency	31-12-2005	STK OI EN DS ⚙️	Analysis
CTE-C02c	A/G Datalink over ATN/OSI - Multi frequency	31-12-2021	STK OI EN DS PCP ⚙️	Analysis
CTE-C02d	New Airport Datalink technology (AEROMACS)	31-12-2022	STK OI EN DS ⚙️	Analysis
CTE-C02d0	New Airport Datalink technology (AEROMACS)	31-12-2029	STK OI DS	Analysis
CTE-C02e	New A/G datalink using ATN/IPS over L-band	31-12-2028	STK OI EN DS ⚙️	Analysis
CTE-C02f	Future Satcom for ATM: SATCOM Class B in Multilink	31-12-2020	STK OI EN DS ⚙️	Analysis
CTE-C02g	Air to Air functionality of New A/G radios	31-12-2029	STK OI DS ⚙️	Analysis
CTE-C02h	Future Satcom for ATM - Long term Satcom/IRIS ( class - A Satcom)		STK OI DS ⚙️	Analysis
CTE-C03b	Broadband Satcom Datalink (i.e. Global Express)	31-12-2028	STK OI DS ⚙️	Analysis
CTE-C04	Future Communication Infrastructure - ATN/IPS and Multilink	31-12-2028	STK OI EN DS ⚙️	Analysis
CTE-C05a	VoIP for ground telephony	-	STK OI EN OBJ DS PCP ⚙️	Analysis
CTE-C05b	Digital Voice / VoIP for ground segment of Air-Ground voice	-	STK OI EN OBJ DS PCP ⚙️	Analysis
CTE-C06a	PENS - Phase 1	31-12-2010	STK OI DS ⚙️	Analysis
CTE-C06b	PENS - Phase 2	31-12-2016	STK OI OBJ DS ⚙️	Analysis
CTE-C06c	AMHS	31-12-2012	STK OI OBJ DS ⚙️	Analysis

Code	Title	IOC	Related Elements	Analysis
CTE-C07a	VDL2 infrastructure optimisation	31-12-2013	STK OI EN	Analysis
CTE-C07b	Frequency Optimisation	31-12-2013	STK OI	Analysis
CTE-N01	GPS L1/L5	31-12-2020	STK OI DS PCP *	Analysis
CTE-N05	GNSS performance assessment system	31-12-2023	STK OI DS *	Analysis
CTE-N06	Space Based Augmentation System (SBAS)	31-12-2020	STK OI EN DS *	Analysis
CTE-N07	Ground Based Augmentation System (GBAS)	31-12-2025	STK OI EN DS *	Analysis
CTE-N07a	GBAS Cat I based on Single-Constellation / Single-Frequency GNSS (GPS L1)	31-12-2012	STK OI EN *	Analysis
CTE-N07b	GBAS Cat II/III based on Single-Constellation / Single-Frequency GNSS (GPS L1)	31-12-2025	STK OI EN DS *	Analysis
CTE-N07c	GBAS Cat II/III based on Multi-Constellation / Multi-Frequency (MCMF) GNSS (GPS + GALILEO / L1 + L5)	31-12-2026	STK OI EN DS *	Analysis
CTE-N07d	GBAS expanded service volume	31-12-2027	STK OI EN DS	Analysis
CTE-N07e	GBAS CAT II/III based on Single-Constellation / Single-Frequency GNSS (GPS L1) extension to equatorial and Nordic regions	31-12-2029	STK OI EN DS	Analysis
CTE-N07f	GBAS robustness towards interference	31-12-2029	STK OI EN DS	Analysis
CTE-N07g	GBAS GS status data provision	31-12-2029	STK OI DS	Analysis
CTE-N08	DME Ground Infrastructure optimisation	31-12-2019	STK OI OBJ DS PCP *	Analysis
CTE-N08c	Modern DME Transponder	31-12-2021	STK OI EN	Analysis
CTE-N09	ILS (Instrument Landing System)	-	STK OI EN *	Analysis
CTE-N10	Microwave Landing System (MLS)	-	STK OI EN *	Analysis
CTE-N11	NDB Decommissioning	31-12-2020	STK OI *	Analysis
CTE-N12	VOR/DME MON (Minimum Operational Network)	31-12-2020	STK OI	Analysis
CTE-N13a	A-PNT (Alternative Positioning Navigation and Timing)	31-12-2029	STK OI EN	Analysis
CTE-N14	Rationalisation of approach and landing systems	31-12-2020	STK OI	Analysis
CTE-NGOV01	Ground Nav aids Optimisation/Rationalisation Plans	-	STK OI	Analysis
CTE-S01	Secondary SUR Radars	31-12-2006	STK OI EN DS *	Analysis
CTE-S01a	SSR Mode A/C/S	31-12-2006	STK OI EN DS *	Analysis
CTE-S02	Primary SUR sensor	31-10-2010	STK OI DS *	Analysis
CTE-S02a	Primary Surveillance Radar	31-10-2010	STK OI EN DS *	Analysis
CTE-S02b	Surface Movement Radar	31-12-2007	STK OI EN OBJ *	Analysis
CTE-S02c	Multi Static Primary Surveillance Radar	31-12-2024	STK OI EN DS *	Analysis
CTE-S02d	Video Based Surveillance	-	STK OI EN DS *	Analysis

Code	Title	IOC	Related Elements	Analysis
CTE-S03	ADS-B Receiving Station	31-12-2008	STK OI EN DS ⚙️	Analysis
CTE-S03a	ADS-B station for NRA surveillance	31-12-2008	STK OI EN DS ⚙️	Analysis
CTE-S03b	ADS-B station for RAD and APT surveillance	31-12-2020	STK OI EN OBJ DS ⚙️	Analysis
CTE-S03c	New ADS-B station for future ADS-B applications	31-12-2024	STK OI EN DS ⚙️	Analysis
CTE-S03d	Satellite based ADS-B technology	31-12-2024	STK OI EN DS ⚙️	Analysis
CTE-S03e	ADS-B transmitter for vehicles	31-12-2008	STK OI EN	Analysis
CTE-S03f	New ADS-B receiver for vehicles	31-12-2008	STK OI EN DS ⚙️	Analysis
CTE-S03g	ACAS monitoring technology	31-12-2020	STK OI	Analysis
CTE-S04	Multilateration ground System	31-12-2010	STK OI DS ⚙️	Analysis
CTE-S04a	Wide Area Multilateration (WAM)	31-12-2007	STK OI EN DS ⚙️	Analysis
CTE-S04b	Airport Multilateration (MLAT)	31-12-2007	STK OI EN OBJ DS ⚙️	Analysis
CTE-S05	Gradual rationalisation of conventional surveillance infrastructure (ADS-B/WAM vs SSR and MSPSR vs PSR)	12-09-2018	STK OI EN ⚙️	Analysis
CTE-S06	Composite Surveillance	-	STK OI EN DS	Analysis
CTE-S02b	Surface Movement Radar	31-12-2007	STK OI EN OBJ ⚙️	Analysis
CTE-S02c	Multi Static Primary Surveillance Radar	31-12-2024	STK OI EN DS ⚙️	Analysis
CTE-S02d	Video Based Surveillance	-	STK OI EN DS ⚙️	Analysis
CTE-S03a	ADS-B station for NRA surveillance	31-12-2008	STK OI EN DS ⚙️	Analysis
CTE-S03c	New ADS-B station for future ADS-B applications	31-12-2024	STK OI EN DS ⚙️	Analysis
CTE-S04a	Wide Area Multilateration (WAM)	31-12-2007	STK OI EN DS ⚙️	Analysis
CTE-S04b	Airport Multilateration (MLAT)	31-12-2007	STK OI EN OBJ DS ⚙️	Analysis
CTE-S07	Surveillance Performance Monitoring Tools	08-06-2030	STK OI EN DS	Analysis
CTE-S07a	Coop sensor SPM Tool ¿ ER & TMA	08-06-2030	STK OI EN DS	Analysis
CTE-S07b	Coop sensor SPM Tool ¿ Surface	08-06-2030	STK OI EN DS	Analysis
CTE-S07d	Non-Coop sensor SPM Tool ¿ Surface	08-06-2030	STK OI EN DS	Analysis
CTE-S07e	SUR Chain SPM Tool ¿ ER & TMA	08-06-2030	STK OI DS	Analysis
PRO-028	Procedures to support AOP-NOP collaborative process	31-12-2019	STK OI DS PCP	Analysis

