IDENTIFICATION AND DEVELOPMENT OF CNS - COMMUNICATIONS PROJECTS

Operational Requirements	CNS Services	Identified projects components	Identified Tasks	To be completed	New Task	ASBU PIA	ASBU Module
G/G Coordination	AFS	Ground/Ground coordination communication	**Implementation of ATS/DS**	x		PIA2-Increased Interoperability, Efficiency and Capacity through Ground-Ground Integration.	B0-FICE
						PIA3-Increased effectiveness of ground based safety nets.	B0-SNET
						PIA3- Air Traffic Situational Awareness(ATSA	B0-ASEP
			Implementation of VoIP		x	PIA2-Increased Interoperability, Efficiency and Capacity through Ground-Ground Integration.	B0-FICE
						PIA3-Increased effectiveness of ground based safety nets.	B0-SNET
						PIA3- Air Traffic Situational Awareness(ATSA)	B0-ASEP
			Implementation of AIDC		x	PIA2 Increased Interoperability, Efficiency and Capacity through Ground-Ground Integration	BO-FICE
						PIA2 Service Improvement through	BO-DAIM

						Digital Aeronautical Information Management	
						PIA 2Meteorological information supporting enhanced operational efficiency and safety	BO-AMET
						PIA3. Improved Operations through Enhanced En-Route Trajectories	B0-FRTO
						PIA3 Improved Flow Performance through Planning based on a Network-Wide view	B0-NOPS
						PIA3. Air Traffic Situational Awareness(ATSA)	B0- ASEP
						PIA3 Increased Effectiveness of Ground-Based Safety Nets	B0-SNET
Aeronautical Information and MET data flow			**Implementation of AFTN**	**x**			
	AFS	**Ground digital data dissemination**	**AMHS (Domestic)**	**x**		PIA1Safety and Efficiency of Surface Operations (A-SMGCS Level 1-2)	B0-SURF
			AMHS (Regional-AFI)		**X**		
			AMHS (Inter Regional)		**X**	PIA1 Improved Airport Operations through Airport-CDM	B0-ACDM
						PIA2 Increased Interoperability,	BO-FICE

						Efficiency and Capacity through Ground-Ground Integration	
						PIA2 Service Improvement through Digital Aeronautical Information Management	BO-DAIM
						PIA2Meteorological information supporting enhanced operational efficiency and safety	BO-AMET
						PIA3 Improved Operations through Enhanced En-Route Trajectories	B0-FRTO
						PIA3 Improved Flow Performance through Planning based on a Network-Wide view	B0-NOPS
						PIA3 Air Traffic Situational Awareness(ATSA)	B0- ASEP
						PIA3- Increased Effectiveness of Ground-Based Safety Nets	B0-SNET
			Deployment of AFI ATN backbone Infrastructure	**x**		PIA1 Improved Airport Operations through Airport-CDM	B0-ACDM
						PIA2 Increased Interoperability,	BO-FICE

						Efficiency and Capacity through Ground-Ground Integration	
						PIA2 Service Improvement through Digital Aeronautical Information Management	BO-DAIM
						PIA2Meteorological information supporting enhanced operational efficiency and safety	BO-AMET
						PIA3 Improved Operations through Enhanced En-Route Trajectories	B0-FRTO
						PIA3 Improved Flow Performance through Planning based on a Network-Wide view	B0-NOPS
						PIA3 Air Traffic Situational Awareness(ATSA)	B0- ASEP
						Increased Effectiveness of Ground-Based Safety Nets	B0-CDO
			Reduction of missing operational messages (Flight plans, NOTAM, Met messages etc)	x		PIA2 Increased Interoperability, Efficiency and Capacity through Ground-Ground Integration	B0-FICE
						PIA2 Service	B0-DAIM

						Improvement through Digital Aeronautical Information Management	
						PIA2 Meteorological information supporting enhanced operational efficiency and safety	B0-AMET
						PIA3 Improved Flow Performance through Planning based on a Network-Wide view	0-NOPS
						PIA3 Air Traffic Situational Awareness(ATSA)	B0- ASEP
						PIA3 Increased Effectiveness of Ground-Based Safety Nets	B0-SNET
B0-FICE						PIA2 Increased Interoperability, Efficiency and Capacity through Ground-Ground Integration	B0-FICE
			Upgrade of current networks to handle bigger bandwidth	**x**		PIA2 Service Improvement through Digital Aeronautical Information Management	B0-DAIM
						PIA2 Meteorological information supporting enhanced operational	B0-AMET

						efficiency and safety	
						PIA3 Improved Flow Performance through Planning based on a Network-Wide view	B0-NOPS
						PIA3 Air Traffic Situational Awareness(ATSA)	B0- ASEP
						PIA3 Increased Effectiveness of Ground-Based Safety Nets	B0-SNET
Air/Ground Communication	**AMS**	**Improvement of Air/Ground voice communication**	**Implementation of VHF& HF(Voice) including coverage**	**x**		PIA1 Improve Traffic flow through Runway Sequencing (AMAN/DMAN)	B0-RSEQ
						*PIA1 Safety and Efficiency of Surface Operations (A-SMGCS Level 1-2)	B0-SURF
						PIA2Meteorological information supporting enhanced operational efficiency and safety	B0-AMET
						PIA2 Increased Interoperability, Efficiency and Capacity through Ground-Ground Integration	B0-FICE
						PIA3 Air Traffic	B0- ASEP

					Situational Awareness(ATSA)	
		Implementation of CPDLC (data)	x		PIA3 Improved Operations through Enhanced En-Route Trajectories	B0-FRTO
					PIA2 Meteorological information supporting enhanced operational efficiency and safety	B0-AMET
					PIA4 Improved Safety and Efficiency through the initial application of Data Link En-Route.	B0-TBO
					PIA3Air Traffic Situational Awareness(ATSA)	B0- ASEP
	Implementation ofAir/Ground digital communication	**Implementation of VDL (data)**		x	PIA2 Service Improvement through Digital Aeronautical Information Management	B0-DAIM
					PIA1 Improve Traffic flow through Runway Sequencing (AMAN/DMAN)	B0-RSEQ
					PIA1 Safety and Efficiency of Surface Operations (A-SMGCS Level 1-2)	B0-SURF

						PIA2Meteorological information supporting enhanced operational efficiency and safety	B0-AMET
						PIA3 Air Traffic Situational Awareness(ATSA	B0- ASEP
						PIA 1Improve Traffic flow through runway Sequencing (AMAN/DMAN)	B0-RSEQ
						PIA1 Increased Runway Throughput through optimized Wake Turbulence Separation.	B0-WAKE
			Implementation of HF DL(data)		**x**	PIA1 Improved Airport Operations through Airport –CDM	B0-ACDM
						PIA2 Service improvement through Digital Aeronautical Information Management	B0-DIAM
						PIA 2 Meteorological information supporting enhanced operational efficiency and safety.	B0- MET
						PIA2 Increased interoperability efficiency and capacity through ground-ground integration.	BO-FICE

						PIA 3 Improved operations through Enhanced En-Route Trajectories.	BO-FRTO
						PIA3 Improved flow performance through planning based on Network-wide view.	B0- NOPS
						PIA3 Air Traffic Situational awareness (ATSA)	B0-ASEP
						PIA3 Improved access to optimum Flight levels through Climb/Descent Procedures using ADS-B.	B0-OPF
						PIA3 Increased effectiveness of ground – based safety Nets.	B0-102 SNET
						PIA4.Improved flexibility and Efficiency in Decent provides (CDO).	B0-CDO
						PIA4Improved safety and efficiency through the initial application of Data link En –Route	B0-TBO
						PIA4 Improved Flexibility and Efficiency Departure profiles-Continuous Climb Operations (CCO	B0-05 CCO

						PIA2 Service Improvement through Digital Aeronautical Information Management	B0-DAIM
						PIA1 Improve Traffic flow through Runway Sequencing (AMAN/DMAN)	B0-RSEQ
			Implementation of SSR Mode S DL(data)		**x**	PIA1 Safety and Efficiency of Surface Operations (A-SMGCS Level 1-2) *	B0-SURF
						PIA2Meteorological information supporting enhanced operational efficiency and safety	B0-AMET
						PIA3 Air Traffic Situational Awareness(ATSA)	B0- ASEP
Maintain an acceptable QoS	**AMS/AFS**	**Identification of AFI Required Communication Performance (RCP)**				PIA 1Improve Traffic flow through runway Sequencing (AMAN/DMAN)	B0-RSEQ
			Implementation of RCP		**x**	PIA1 Increased Runway Throughput through optimized Wake Turbulence Separation.	B0- WAKE
						PIA1 Improved Airport Operations through Airport –CDM	B0 ACDM

						PIA2 Service improvement through Digital Aeronautical Information Management	B0-DIAM
						PIA 2 Meteorological information supporting enhanced operational efficiency and safety.	B0-MET
						PIA2 Increased interoperability efficiency and capacity through ground-ground integration.	BO-ICE
						PIA 3 Improved operations through Enhanced En-Route Trajectories.	BO-FRTO
						PIA3 Improved flow performance through planning based on Network-wide view.	B0-NOPS
						PIA3 Air Traffic Situational awareness (ATSA)	B0-ASEP
						PIA3 Improved access to optimum Flight levels through Climb/Descent Procedures using ADS-B.	B0-OPF
						PIA3 Increased effectiveness of ground –	B0-SNET

						based safety Nets.	
						PIA4.Improved flexibility and Efficiency in Decent profiles(CDO).	B0-CDO
						PIA4Improved safety and efficiency through the initial application of Data link En –Route	B0-TBO
						PIA4 Improved Flexibility and Efficiency Departure profiles-Continuous Climb Operations (CCO	B0-CCO