

ISPACG Performance Based Communication and Surveillance (ISPACG PBCS) Implementation Plan

TASK ID	TASK DESCRIPTOR	COMPLETE BY	LEAD	TASK DETAILS	STATUS
GENERAL PROJECT DEVELOPMENT & MANAGEMENT					
1	Plan	Jun 2015		Prepare a draft plan outlining the tasks to implement performance based communication and surveillance.	PENDING
2	Target dates	Nov 2016- target date		Identify Key Target Dates on implementing performance based framework for communication and surveillance and prescribing RCP/RSP specifications to support reduced separation minima.	PENDING

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3	RCP/RSP specifications	N/A		a) Confirm applicable performance specifications that will be used for operational implementation of data link services in support of reduced separation minima.	COMPLETED a) For data link operations, CPDLC performance will be measured against RCP 240 and ADS-C performance will be measured against RSP 180. b) RCP 240 and RSP/180 are the specifications to be prescribed for reduced distance based separations (subject to ICAO activities undertaken at the global level by OPLINK and SASP).
4	Workshop(s)	N/A?			

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DOCUMENTATION					
5	Operational concepts			<p>a) Update operational concepts for implementation of reduced separation minima supported by data link to include associated RCP/RSP specifications.</p> <p>b) Develop operational concept (of use), including procedures using CPDLC and ADS C to reduce the number and exposure of operational errors and pilot deviations, regardless of whether or not reduced ADS C based separations are applied. For example, concept of use should detail conformance monitoring, intervention and route re-clearances when using data link.</p>	
6	GOLD amendments			<p>Develop GOLD material, as appropriate, in support of reduced separations:</p> <ul style="list-style-type: none"> - the provisions for data link service (AIC, guidance for AIPs, eligibility requirements etc) - performance specifications - initial qualifications for operations of operators, aircraft and ATC - post implementation monitoring 	

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7	Contingency procedures			Develop flight crew and controller contingency procedures in the event of service outage, malfunction or failure that would cause performance to degrade below that required by performance specifications.	COMPLETED. No additional/specific material is needed..
8	Restoration of service			Develop the criteria for resuming data link service, reduced separation operations after service communication and/or surveillance capabilities are restored to acceptable level of performance.	COMPLETED. No additional/specific material needed.

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9	Flight plan requirements	Doc 4444 target date – November 2016	ICAO (Global)	<p>Draft guidance material for the flight plan to define the descriptors for performance specifications, as appropriate, using the new format planned for 2012 implementation.</p> <p>Include definition of P descriptors in Item 10a and expansion or redefinition of descriptors for ADS-C.</p>	<p>PENDING</p> <p>Awaiting Doc 4444 and/or Doc 7030 amendments</p> <p>OPLINKP agreed: Item 10 for CPDLC</p> <p>P1 – RCP400</p> <p>P2 – RCP240</p> <p>P3-P9 – [reserved]</p> <p>Item 18, for ADS-C SUR/RSP400 or SUR/RSP180</p> <p>Above changes will affect ATC automation. See Task 12.</p>

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10	PfA for Regional Supplementary Procedures	Pending the outcome of the work on the global provisions		Draft or update PfA (or revise existing drafts) to the Regional Supplementary Procedures (Doc 7030) to prescribe the performance specifications for communication and surveillance to support reduced distance based separations. PfA should include criteria for operator eligibility, aircraft equipage, requirements for flight planning, monitoring, alerting and reporting.	
11	AIPs and other State documents supporting SUPPS and/or PANS ATM	Consistent with Task 10	States	Amend AIPs and other State documents to support SUPPs amendments proposed in Task 10 and/or PANS-ATM.	PENDING

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14	GOLD proposal for RCP/RSP compliance determination			Develop a guidance material to clarify the interpretation of performance specifications in terms of compliance/non-compliance.	COMPLETED. Incorporated into GOLD, 2nd Edition, and is contained in the OPLINKP draft Doc 9869 (PBCS Manual), targeted for publication in 1st Quarter 2015.
15	GOLD proposal for guidelines on operator eligibility			Provide guidance to State regulators related to aircraft equipage and operator eligibility requirements taking into account the GOLD and performance specifications. Refer to FAA AC 20-140A and AC 120 70B. Other State material may apply.	COMPLETED Guidelines on operator eligibility were updated in the GOLD, 2nd Edition, and is contained in the OPLINKP draft Doc 9869 (PBCS Manual), targeted for publication in 1st Quarter 2015.
IMPLEMENTATION ACTIVITIES					
12a	ATC automation changes for monitoring		ANSPs	Implement post-implementation monitoring capability in ATC automation.	PENDING Status to be reported by each ANSP at ISPACG meetings.

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12b	ATC automation changes to use flight plan designators		ANSPs	Implement changes to recognize new flight plan descriptors defined and apply operations only to eligible aircraft.	PENDING.
13	Confirm actual CPDLC and ADS-C performance		ANSPs	<p>Measure actual performance against specifications for feasibility, i.e., ACP, ACTP, PORT, ADS C latency for operators and aircraft types.</p> <p>Collect and analyze data in accordance with GOLD, Appendix D.</p> <p>Provide a clear indication of whether or not RCP 240 is being met in each FIR</p> <p>Identify, if RCP 240 is not being met, what aspects of the system's performance are not compliant with the RCP 240 specification.</p> <p>Determine the potential effects of those shortcomings on the implementation of reduced separation minima.</p>	<p>PENDING</p> <p>Performance reports provided at ISPACG FIT. Measuring against RSP180 and RCP240 is implemented by some ANSP</p>

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AIRWORTHINESS AND OPERATIONAL ELIGIBILITY					
16	State regulations and guidance material		States/Users	<p>Provide guidance to States on application of PBCS to communication and surveillance.</p> <p>Develop or revise State guidance and/or regulations, as necessary.</p> <p>a) Establish State airworthiness requirements. Establish operational policy/procedures requirements for operational approval.</p> <p>b) Prepare State inspectors to perform tasks for operational approval.</p> <p>c) Develop plan to issue operational approval to national operators by [date], to extent possible. Train pilots and, if applicable, dispatchers on RCP/RSP aspects of reduced separation.</p> <p>d) Develop and distribute operations manuals, pilot bulletins or other appropriate docs containing RCP/RSP policy/procedures.</p>	<p>PENDING.</p> <p>The following sequence of events will facilitate States having the capability to authorize their operators and aircraft to RCP 240/RSP 180:</p> <p>a) Review ICAO Annexes, PANS and Doc 9869 (PBCS Manual), Doc [GOLD], Doc [SVGM] – mature drafts expected to be available in October 2014) – complete date TBD;</p> <p>b) Establish lead time for States to establish State regulations and guidance using ICAO documents – complete date TBD;</p> <p>c) Inform States of example RCP/RSP authorization documents published by other States;</p> <p>g) ICAO Annexes, PANS and Manuals applicable – target date November 2016.”</p>