1.   AIR NAVIGATION REPORT FORM (ANRF)

APAC Regional Planning for ASBU Modules

2.   REGIONAL/NATIONAL PERFORMANCE OBJECTIVE – B0-FICE: Increased Interoperability, Efficiency and Capacity through Ground-Ground Integration **Performance Improvement Area 2:** Globally Interoperable Systems and Data – Through Globally Interoperable System Wide Information Management

3. ASBU B0-FICE: Impact on Main Key Performance Areas (KPA)					
	Access & Equity	**Capacity**	**Efficiency**	**Environment**	**Safety**
Applicable	Y	Y	Y	Y	Y

4. ASBU B0-FICE: Planning Targets and Implementation Progress	
5. Elements	**6. Targets and implementation progress (Ground and Air)**
1. Implement AIDC at APAC States between ATC units where transfers of control are conducted (minimum set: ABI, EST, ACP, TOC, AOC)	November 2015 (Seamless ATM Plan Phase I): all States between ATC units where transfers of control are conducted have implemented the messages ABI, EST, ACP, TOC, AOC)
2. Complete the regional ATN/AMHS network in the whole APAC region[1]	November 2015 (Seamless ATM plan Phase I): all States are interconnected in AMHS
3. Migrate communications between States on the regional network (AIDC, ATFM, SUR data, performance monitoring, experimental SWIM, etc)[2]	November 2018: all volunteer States have migrated their communications
4. Implement AIDC compliant with PAN-Regional AIDC ICD, or an alternative process that achieves at least the same level of performance as AIDC, between en-route ATC units and terminal ATC units where transfers of control are conducted[3]	November 2018 (Seamless ATM Plan Phase II): Implement full AIDC messaging, or alternate communication standard.

7. ASBU B0-FICE: Implementation Challenges				
	Implementation Area			
Elements	**Ground System Implementation**	**Avionics Implementation**	**Procedures Availability**	**Operational Approvals**

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[1] Enabler, not indicated in the Seamless ATM plan v1

[2] Enabler, not indicated in the Seamless ATM plan v1, and valid only if the study requested by APANPIRG/24 concludes that such network should be implemented in the APAC region

[3] Not indicated in the Seamless ATM plan v1, and under the condition that the PAN-Regional AIDC ICD be adopted by APANPIRG

	Implementation Area			
7. ASBU B0-FICE: Implementation Challenges				
Elements	**Ground System Implementation**	**Avionics Implementation**	**Procedures Availability**	**Operational Approvals**
1. Implement AIDC at APAC States between ATC units where transfers of control are conducted (minimum set: ABI, EST, ACP, TOC, AOC)	ATM automation system capability and supporting data communications network.	NIL	ATC procedures for intervention and interaction with ATM automation system, and for operational improvements including reduced ATC manual coordination requirement where supported by appropriate airspace and ATS route design or redesign.	NIL
2. Complete the regional ATN/AMHS network in the whole APAC region	Readiness of all States for double stack	NIL	NIL	NIL
3. Migrate communications between States on the regional network (AIDC, ATFM, SUR data, performance monitoring, experimental SWIM, etc)	Economic and legal framework - Common Procurement - Confidence of the States in the network	NIL	NIL	NIL
4. Implement AIDC compliant with PAN-Regional AIDC ICD, or alternate higher performance data communications between all ACCs and between ATCs and all associated terminal ATC units.	ATM automation system capability and supporting data communications network.	NIL	ATC procedures for intervention and interaction with ATM automation system, and for operational improvements including reduced ATC manual coordination requirement where supported by appropriate airspace and ATS route design or redesign.	

8. ASBU B0-FICE: Performance Monitoring and Measurement	
8A. ASBU B0-FICE: Implementation	
Elements	**Performance Indicators/Supporting Metrics**
1. Implement AIDC at APAC States between ATC units where transfers of control are conducted (minimum set: ABI, EST, ACP, TOC, AOC)	Percentage of FIRs within which all applicable ACCs with neighbouring ACCs utilise AIDC, using the minimum suite of messages ABI, EST, ACP, TOC, AOC
2. Complete the regional ATN/AMHS network in the whole APAC region	Percentage of States interconnected in AMHS Supporting metric Number of States interconnected in AMHS
3. Migrate communications between States on the regional network (AIDC, ATFM, SUR data, performance monitoring, experimental SWIM, etc)	Percentage of States with migration of applications terminated Supporting metric: Number of States with migration of applications terminated

8. ASBU B0-FICE: Performance Monitoring and Measurement 8A. ASBU B0-FICE: Implementation	
Elements	**Performance Indicators/Supporting Metrics**
4. Implement AIDC compliant with PAN-Regional AIDC ICD, or alternate higher performance data communications between all ACCs and between ACCs and all associated terminal ATC units.	Percentage of FIRs within which all ACCs implement full AIDC messaging capability between all ACCs and between ACCs and all associated terminal ATC units.

8A. ASBU B0-FICE: Performance Monitoring and Measurement 8 B. ASBU B0-FICE: Performance Monitoring	
Key Performance Areas	**Metrics (if not indicate qualitative Benefits)**
Access & Equity	Benefit: Greater access afforded by improvements in capacity and efficiency.
Capacity	Benefit: Increased capacity due to reduced controller workload associated with ATS coordination and transfers of control.
Efficiency	Benefit: Reduced voice coordination, improved timeliness of coordination, leading to better efficiencies in ATC workload and task prioritization
Environment	Benefit: Increased capacity due to reduction in ATC workload, leading to more aircraft operating at preferred flight levels on optimum trajectories.
Safety	Benefit: Reduction and early detection of human coordination errors, thus reducing large height deviation (LHD) events. Extension of safety net alerts to aircraft operating beyond FIR boundary when to or intending to transit the FIR.

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