

DRAFT PROGRAMME

As of 14 May, 2012

(Click on a session below for further details)

- Day 1: Tuesday, 16th October 2012
 - Plenary --- PBN Implementation -- Where Are We Now?
 - Session 1 PBN: The Big Picture
 - Session 2 Benefits and Challenges for PBN: What are we getting from PBN and can we hope for more?
 - <u>Session3 PBN Implementation: Who is doing what with PBN</u> <u>implementation?</u>
- Day 2: Wednesday, 17th October 2012
 - Session 4: PBN Implementation stakeholder readiness: Are we ready to go?
 - Workshop A Air Traffic Management: ATM Requirements Forum
 - Workshop B Operations Approval: Flight Operations Requirements Forum
- Day 3: Thursday, 18th October 2012
 - Workshop A (Cont'd): Air Traffic Management:
 - <u>Regulatory and Certification Forum</u>
 - <u>Technical Requirements Forum</u>
 - Training Forum
 - Workshop B (Cont'd) Operations Approval
 - <u>Regulatory and Certification Forum</u>
 - <u>Technical Requirements Forum</u>
 - Training Forum
- Day 4: Friday, 19 October 2012
 - Plenary --- Back to the Future
 - o Closing Speech
 - FAREWELL



Workshop, Tuesday, 16th October 2012

PLENARY – PBN IMPLEMENTATION	
	WHERE ARE WE NOW?
	Symposium Opening:
09:00 - 09:10	→ Nancy Graham, Director, Air Navigation Bureau, ICAO
09:10 - 09:15	Administrative details
	Session 1: PBN
	THE BIG PICTURE
09:20 - 09:40	 → Keynote address → Call for Action!
	Why PBN and why now? What we should be doing and how we can improve the situation.
09:40 - 10:00	→ ICAO's Global Air Navigation Plan (GANP) and the Aviation System Block Upgrades (ASBU's)
	→ How does PBN fit in? PBN as an enabler.
	This will outline very briefly the ASBU approach and then explain PBN as a major enabler for them taking the block upgrade approach.
10:00 - 10:20	 PBN Business Case. Do we really need PBN? A high level presentation of business case requirements but not details of cost/benefits.
10:20 - 10:40	→ What's new from ICAO?
	A basic review of what documents are available and what will soon be online.
10:40 - 10:50	Questions
10:50 – 11:15	Coffee Break



SESSION 2: BENEFTIS AND CHALLENGES FOR PBN		
WHAT ARE WE GETTING FROM PBN AND CAN WE HOPE FOR MORE?		
	Panel presentations /Discussion	
11:20 - 11:40	→ Gains for the airline operators	
	A high level presentation of overall benefits to an airline when implementing PBN, fuel, track length, safety, accessibility etc.	
11:40 - 12:00	→ What can we do with the airspace?	
	A high level approach to the benefits of PBN for airspace design, segregated routes, CDO's, capacity etc	
12:00 - 12:20	→ Impact upon Air Navigation Service Providers	
	A high level approach to benefits as seen from an ATC perspective, flexible routes, reduced vectoring, CDA's etc.	
12:20 - 12:40	→ Regulatory and Approval requirements	
	→ What do we need to do to gain the benefits?	
	A high level identification of what steps are needed to implement PBN from a regulation/standards perspective.	
12:40 - 13:00	→ Airframe manufacturer gains	
	A high level approach to benefits as seen from an aircraft manufacturers view, accurate navigation, predictable routing etc	
13:00 - 13:15	→ Panel discussion and questions	
	Panel member will consist of presenters (or alternates) from the presentations above (industry, regulator and service provider). The aim is to discuss issues pertinent to the presentations given and to make placeholders for further detailed discussion in the workshops.	
13:15 - 14:15	Lunch Break	



SESSION 3: PBN IMPLEMENTATION		
W	WHO IS DOING WHAT WITH PBN IMPLEMENTATION?	
	Panel presentations /Discussion	
14:20 -14:40	→ PBN Global Implementation Situation	
	A focus on the big picture overview of the implementation status on a global basis.	
14:40 - 15:00	Yiew from the flight deck "PBN, what's in it for me"	
	A pilots perspective of implementation, the issues and the challenges to come.	
15:00 - 15:30	Coffee Break	
15:30 -15:50	→ Air Traffic Control "why do we need to change"	
	ATC perspective of the change and why we need it.	
15:50 - 16:10	 Practical implementation – Efficiency, fuel saving and track mileage reduction 	
	A presentation of implementation of PBN, the issues arising and benefits being gained.	
16:10 - 16:30	→ Practical Implementation – Safety and accessibility	
	A presentation of implementation of PBN in a low density area the issues including social impact	



SESSION 3: PBN IMPLEMENTATION Who is doing what with PBN implementation?		
	(CONT'D)	
	Panel presentations /Discussion	
16:30 - 16:50	Practical Implementation – Capacity gains in a complex area	
	A presentation of implementation of PBN in the USA the issues arising together with improvements in capacity	
16:50 - 17:10	Practical Implementation – Environment requirements	
	A presentation including implementation of PBN in Europe the issues arising together with improved environmental impact.	
17:10 - 17:30	→ Panel discussion and questions	
	↔ Wrap up	
17:45	WELCOME RECEPTION	



Workshop, Wednesday, 17th October 2012

PLENARY — SESSION 4: PBN IMPLEMENTATION STAKEHOLDER READINESS

ARE WE READY TO GO?

Panel presentations /Discussion

08:45 - 08:50	Opening and Administration
08:50-09:10	→ Long haul Airbus/Boeing fleet
09:10-09:30	→ Short haul regional fleet
09:30 - 09:50	PBN utilisation - General Aviation perspective
09:50 - 10:10	→ Any issue for the military?
10:10 - 10:30	→ Systems in the air-Avionics development and certification
10:30 - 10:50	→ Systems on the ground – ATC system development and certification
10:50 - 11:05	→ Panel discussion and questions
11:05 - 11:30	Coffee Break
11:30-13:00	Regional Office forum
	"Where the rubber meets the road"
	A forum discussion of ICAO Regional offices and invited guests to look at issues arising from stakeholder implementation in their regions and the implications of what has already been presented.
	Wrap up and conclusions to bring forward to the Work shops
13:00 - 14:00	Lunch Break



WORKSHOP A – AIR TRAFFIC MANAGEMENT	
	Moderator David Maynard Panel presentations / discussion
14:00 - 17:15	ATM REQUIREMENTS FORUM
14:00 - 14:25	→ Airspace Design
14:25- 14:50	 An space Design Instrument procedure design
14:50- 15:15	→ Air Traffic Control operating procedures
15:15 - 15:45	Coffee Break
15:45 - 16:10	→ Charting
16:10 - 16:35	→ Aeronautical Information Management
16:35 - 17:15	→ Requirements issue capture and panel discussion



WORKSHOP B – OPERATIONS APPROVAL

Panel presentations / discussion

(These groups of issues will be by panel discussion with one of the panel taking the lead for each subject possibly with a short presentation 2/3 slides max)

14	1 :00 – 17:15	FLIGHT OPERATIONS REQUIREMENTS FORUM
	14:00 - 14:25	→ Approach Classification
	14:25- 14:50	→ Data quality & navigation database
	14:50- 15:15	→ Flight Crew Procedures
	15:15 - 15:45	Coffee Break
	15:45 - 16:10	→ Instrument procedure charting
	16:10 - 16:35	→ RNP requirements
	16:35 - 17:15	→ Requirements issue capture and panel discussion



Thursday, 18th October 2012

WORKSHOP A – AIR TRAFFIC MANAGEMENT	
WORKSHOF A - AIR TRAFFIC MANAGEMENT	
	Moderator: David Maynard
	Panel presentations / discussion
09:00 - 12:45	REGULATORY AND CERTIFICATION FORUM
09:00 - 09:25	→ Airspace and ATFM regulation
09:25 - 09:50	↔ Certification for Instrument Approach Procedure design
09:50 - 10:15	→ Air Traffic System support certification
10:15 - 10:40	→ AIM quality assurance
10:40 - 11:15	Coffee Break
11:15 - 11:40	→ Environmental regulation issues
11:40 - 12:05	→ Business and safety case
12:05 – 12:45	→ Requirements issue capture and panel discussion
12:45 – 13:45	Lunch Break
13:45 - 15:00	TECHNICAL REQUIREMENTS FORUM
13:45 - 14:00	→ RNP AR and RNP
14:00 - 14:15	→ Air Traffic System requirements
14:15 – 14:35	→ Flight planning TBD
14:35 - 15:00	+ Requirements issue capture and panel discussion



Thursday, 18th October 2012

(CONT'D)

15:00 - 15:30	Coffee Break
15:30 - 17:15	TRAINING FORUM
15:30 - 15:55	→ Air Traffic Control
15:55 - 16:20	→ Regulatory / procedure design
16:20 - 16:45	→ Regional training initiative
16:45 - 17:15	Requirements issue capture and panel discussion



WORKSHOP B – OPERATIONS APPROVAL

Panel presentations / discussion

(These groups of issues will be by panel discussion with one of the panel taking the lead for each subject possibly with a short presentation 2/3 slides max)

09:00 - 12:45	REGULATORY AND CERTIFICATION FORUM
09:00 - 09:25	→ Operations approval process
09:25 - 09:50	→ Aircraft eligibility
09:50 - 10:15	→ LAM ACs – present and planned
10:15 - 10:40	→ FAA ACs present and planned
10:40 - 11:15	Coffee Break
11:15 – 11:40	→ EASA CSs – present and planned
11:40 - 12:05	→ Business and safety case
12:05 - 12:45	+ Requirements issue capture and panel discussion
12:45 – 13:45	Lunch Break
13:45 - 15:00	TECHNICAL REQUIREMENTS FORUM
13:45 - 14:00	→ RNP AR Eligibility
14:00 - 14:15	→ FMS operations
14:15 - 14:35	→ Flight planning
14:35 - 15:00	+ Requirements issue capture and panel discussion



15:00 - 15:30	Coffee Break
15:30 - 17:15	TRAINING FORUM
15:30 - 15:55	→ Flight crew CEA simulators
15:55 - 16:20	→ Regulatory
16:20 - 16:45	→ Flight planning
16:45 - 17:15	→ Requirements issue capture and panel discussion

Workshop, Friday, 19th October 2012

		Plenary — BACK TO THE FUTURE
	09:00 - 09:15	→ Recall of objectives
	09:15-09:45	→ The issues and next steps
		→ ATM stream
	09:45 – 10:15	The issues and next steps
	10:15 - 10:55	→ Flight Operations stream
		→ The challenge - Panel discussion & questions
Ż	10:55 – 11:20	Coffee Break
	11:20 - 11:50	→ The issues and next steps consolidated
	11:50 - 12:00	 Closing speech – Nancy Graham, Director, Air Navigation Bureau, ICAO
	12:00	FAREWELL



Invited speakers *inter alia* from the following organisations:

ICAO FAA	EUROCONTROL	IATA CAN	SO IFAL	PA IFATCA
SESAR S-JU EASA Boeing Airbus Bombardier Embraer				
DGAC France	Rockwell Co	llins Univ	ersal Thale	s Emirates
South African Airlines Air Services Australia				