

PROGRAMME

- Day 1: Tuesday, 16th October 2012
 - o Plenary PBN, Expediting Implementation Together
 - Session 1 PBN from 35,000 feet: "A top down look"
 - Session 2 Validating PBN: "What's in it for me"
 - Session 3 PBN Successes: Who is doing what with PBN implementation?
- Day 2: Wednesday, 17th October 2012
 - o Plenary Session 4 Stakeholder readiness "Putting the pieces of the PBN puzzle together?"
 - Workshop A Practical Experiences and Air Traffic Management
 - ATM Requirements Forum
 - Workshop B PBN and the Cockpit
 - Flight Operations Requirements Forum
- Day 3: Thursday, 18th October 2012
 - Workshop A (Cont'd): Practical Experiences and Air Traffic Management:
 - Technical Requirements Forum
 - Training Forum
 - Regulatory and Certification Forum
 - Workshop B (Cont'd) PBN and the Cockpit
 - Regulatory and Certification Forum
 - Technical Requirements Forum
 - Training Forum
- Day 4: Friday, 19 October 2012
 - o Symposium Wrap-Up: "On-Final"
 - o Closing Speech



TUESDAY, 16 OCTOBER 2012 PLENARY - PBN, EXPEDITING IMPLEMENTATION TOGETHER

09:15 - 09:25	 Symposium Opening Master of Ceremony, Vince Galotti, Deputy Director, Standardization and Infrastructure, Air Navigation Bureau, ICAO Nancy Graham, Director, Air Navigation Bureau, ICAO
09:25 - 09:30	Session 1 - PBN from 35,000 feet
09.23 - 09.30	"A TOP DOWN LOOK"
	Moderator - Jeff Williams, Senior Vice President, Aviation Management, TERATECH
09:30 - 09:45	 Keynote address Call for Action! Alan Stealey, Divisional Senior Vice President, Flight Operations, Emirates Airline Why PBN and why now? What we should be doing and how we can improve the situation.
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09:45 - 10:00	 PBN: Not just Another Acronym Bo Redeborn, Principal Director ATM, EUROCONTROL
	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 - 10:15	 What's new from ICAO? Erwin Lassooij, PBN Programme Manager, Air Traffic Management (ATM) Section, ANB, ICAO
	Basic review of what documents are available and what will soon be online.
10:15 - 10:30	 Action by Industry Guenther Matschnigg, Senior Vice President, Safety, Operations & Infrastructure, IATA
	A high level presentation of requirements from Industry.
10:30 - 10:45	→ Questions
10:45 - 11:15	Coffee Break
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	NAV CANADA



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	TUESDAY, 16 OCTOBER 2012
	CONTINUED
11:15 - 11:20	Session 2 - Validating PBN
	"WHAT'S IN IT FOR ME"
	Panel presentations / Discussion
	Moderator - Bo Redeborn, Principal Director, ATM, EUROCONTROL
11:20 - 11:35	→ Gains for the airline operators
	 Johnny Woods, Head of Flight Operations & Chief Pilot, South African Airways (S.A.A.)
	A high level presentation of overall benefits to an airline when implementing PBN, fuel, track
	length, safety, accessibility etc.
11:35 - 11:50	→ What can we do with the airspace?
	 Lynn Ray, Vice President, Mission Support Services, FAA
	A high level approach to the benefits of PBN for airspace design, segregated routes, CDO's,
	capacity etc
11:50 - 12:05	→ Impact upon Air Navigation Service Providers
	Akos van der Plaat, PBN SG Lead, CANSO
	A high level approach to benefits as seen from an ATC perspective, flexible routes, reduced
	vectoring, CDA's etc.
12:05 - 12:20	→ Airports and PBN, will it make a difference?
	Angela Gittens, Director General, ACI
	Impact upon airports environmental, capacity, safety. What if we are at capacity already?
12:20 - 12:35	→ PBN and a system of systems
	Michael Standar, Chief ATM, SESAR Joint Undertaking
	A high level approach to how the system will utilise PBN to enable accurate navigation, predictable
	routing etc.
12:35 - 12:50	→ Delivering Environmental benefits
	 Presented by Boubacar Djibo, Director, Air Transport Bureau (ATB), ICAO
	A look at PBN in the basket of measures available for delivering environmental benefits with
	consideration of environmental interdependencies.
12:50 - 13:00	→ Panel discussion and questions
	Panel will consist of presenters to discuss issues pertinent to the presentations given and to make
	placeholders for further detailed discussion in the workshops.



	THESDAY 16 OCTOBED 2012	
TUESDAY, 16 OCTOBER 2012 CONTINUED		
13:00 - 14:30	Lunch Break	
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	BOEING JEPPESEN. A BOEING COMPANY	
14:30 - 14:35	Session 3 - PBN Successes	
	"WHO IS DOING WHAT WITH PBN IMPLEMENTATION"	
	Panel presentations / Discussion	
	Moderator - Rob Eagles, Director, Infrastructure Strategy, IATA	
14:35 - 14:50	 PBN Global Implementation Situation Carlos Cirilo, Assistant Director, Infrastructure Strategy, IATA 	
	Canon Chine, Accident Billocia, himacauctura Calalogy, harri	
	A focus on the big picture overview of the implementation status on a global basis.	
14:50 - 15:05	Practical implementation PBN in China Flight Standards Honghai Yang, Deputy Director General, CAAC	
	Honghai Yang, Deputy Director General, CAAC	
	Flight Standard implications for PBN implementation in China.	
15:05 - 15:20	Practical implementation in Brazil	
	Carlos Pellegrino, Operations Director, ANAC	
	Practical implementation at locations in Brazil and issues arising.	
15:20 - 15:35	Practical implementation - Efficiency, fuel saving and track mileage reduction	
	 Jeff Cochrane, Manager of Communication, Navigation and Surveillance (CNS) Service Design, NAV Canada 	
	Design, 1979 Ganada	
	A presentation of implementation of PBN, the issues arising and benefits being gained.	
15:35 - 15:50	 Practical Implementation - Safety and accessibility Gary Newman, Manager Procedure design and Cartography, South African Civil Aviation 	
	Authority	
15:50 - 16:20	A presentation of implementation of PBN in a low density area the issues including social impact Coffee Break	
15.50 - 16.20	Sponsored by	
	TETRA TECH	



TUESDAY, 16 OCTOBER 2012 CONTINUED	
16:20 - 16:35	 Practical Implementation - Capacity gains in a complex area Doug Marek, Operations Manager, FAA
	A presentation of implementation of PBN in the USA the issues arising together with improvements in capacity.
16:35 - 16:50	 Practical Implementation - Environment requirements Benoit Roturier, Direction Programme GNSS, DGAC A presentation including implementation of PBN in Europe the issues arising together with improved environmental impact.
16:50 - 17:05	 Practical Implementation - Japan Nobumichi Akagi, Japan Airlines A presentation including implementation of PBN at five airports in Japan.
17:05 - 17:30	→ Panel discussion and questions→ Wrap up
17:45	WELCOME RECEPTION Sponsored by
	Honeywell UGHES AEROSPACE CORPORATION



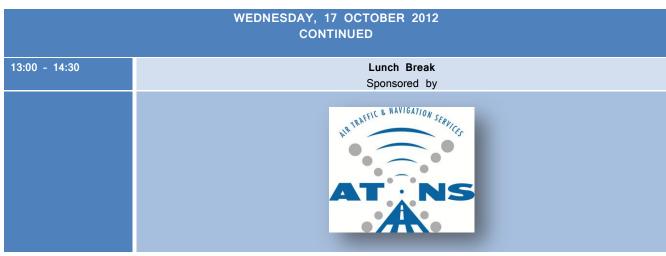
WEDNESDAY, 17 OCTOBER 2012 PLENARY SESSION 4 - STAKEHOLDER READINESS

PUTTING THE PIECES OF THE PBN PUZZLE TOGETHER

Panel presentations / Discussion

Moderator - Steve Fulton, Technical Fellow, GE Aviation	
09:30 - 09:35	→ Opening and Administration
09:35 - 09:50	 Aircraft manufacturer issues Dave Nakamura, Senior Technical Fellow - Boeing Airplane Systems, The Boeing Company
09:50 - 10:05	Legacy, turboprop and regional issues Pierre Marchi, EMBRAER
10:05 - 10:20	 PBN utilisation - General Aviation perspective - private, business and VLJ issues Craig Spence, Secretary General, IAOPA Headquarters
10:20 - 10:35	 PBN with ATFM and airspace Paul Frank Bijou, CEO, Quovadis
10:35 - 10:50	Any issue for the military? • Alan Storm, NATO
10:50 - 11:20	Coffee break Sponsored by
	TETRA TECH
11:20 - 11:35	 Systems in the air - Avionics development and certification Randy Walter, GE Aviation
11:35 - 11:50	 Aeronautical information and charting Michael Lewis, Vice President, Government and Industry Affairs, Jeppesen
11:50 - 12:00	→ Panel discussion and questions
12:00 - 13:00	Regional Forum "Creating More Lift" • Led by Bill Voss, President and CEO, Flight Safety Foundation A forum discussion of ICAO Regional offices and invited guests to look at issues arising from stakeholder implementation in their regions (Including Regional Implementation Plans) and the
	implications of what has already been presented. Wrap up and conclusions to bring forward to the Workshops







WEDNESDAY, 17 OCTOBER 2012 WORKSHOPS

(14:30 - 17:15)

Workshop A - Practical Experiences and Air	Workshop B - PBN and the Cockpit
Traffic Management	(All you need to know to commence PBN Flight
(All you need to know to create the PBN environment)	Operations)
Expert Panel presentations / discussion	Expert Panel presentations / discussion
Moderator - David Maynard, CANSO	Moderator - Jeff MacDonald, ICAO
(This is a learning/education workshop that will explore in	(This is a learning/education workshop that will explore in
more detail the ATM issues, requirements and solutions	more detail the Flight Operations issues, requirements and
resulting from actual PBN implementation examples)	solutions resulting from actual PBN implementation
	examples)
ATM REQUIREMENTS FORUM	FLIGHT OPERATIONS REQUIREMENTS FORUM
FORUM INTRO/OVERVIEW	FORUM INTRO/OVERVIEW
CHAMPION - Franca Pavlicevic, EUROCONTROL	CHAMPION - Pedro Rivas, IFALPA
AIRSPACE DESIGN	INSTRUMENT PROCEDURE DESIGN
INSTRUMENT PROCEDURE DESIGN	FLIGHT CREW PROCEDURE DEVELOPMENT
AERONAUTICAL INFORMATION MANAGEMENT AND CHARTING	DATA QUALITY AND NAVIGATION DATABASE
	APPROACH CLASSIFICATION AND CHARTING
	CONTROL OF DATA QUALITY & NAVIGATION
	DATABASE
	FLIGHT CREW PROCEDURE DEVELOPMENT
COFFE	E BREAK
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PRACTICAL PBN EXAMPLE

AIR TRAFFIC CONTROL OPERATING PROCEDURES

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Questions for the Panel

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REQUIREMENTS/ISSUES CAPTURE

REQUIREMENTS/ISSUE CAPTURE

CLOSING REMARKS

THURSDAY, 18 OCTOBER 2012 WORKSHOPS

(09:30 - 13:00)

Workshop A - Practical Experiences and Air Traffic Management	Workshop B - PBN and the Cockpit
(All you need to know to create the PBN environment)	(All you need to know to commence PBN Flight Operations
Expert Panel presentations / discussion	Expert Panel presentations / discussion
Moderator - David Maynard, CANSO	Moderator - Jeff MacDonald, ICAO
(This is a learning/education workshop that will explore in more detail the ATM issues, requirements and solutions resulting from actual PBN implementation examples)	(This is a learning/education workshop that will explore in more detail the Flight Operations issues, requirements and solutions resulting from actual PBN implementation examples)
TECHNICAL REQUIREMENTS FORUM	REGULATORY AND CERTIFICATION FORUM
FORUM INTRO/OVERVIEW	FORUM INTRO/OVERVIEW
• CHAMPION - Jim Arrighi, FAA	CHAMPION - Mark Steinbicker, FAA
RNAV, RNP AR AND RNP	LATIN AMERICA GUIDANCE MATERIAL (Present/Planned and Certification/Approval Strategies)
AIR TRAFFIC SYSTEM SUPPORT REQUIREMENTS	FAA GUIDANCE MATERIAL (Present/Planned and Certification/Approval Strategies)
FLIGHT PLANNING	EASA GUIDANCE MATERIAL (Present/Planned and Certification/Approval Strategies)
TRAJECTORY PREDICTION	ICAO PBN OPERATIONAL APPROVAL MANUAL (Present/Planned and Certification/Approval Strategies)
TERRAIN / OBSTACLE DATA	RNP OPERATIONAL APPROVALS, CHALLENGES AND WAY FORWARD
QUESTIONS FOR THE PANEL	
REQUIREMENTS/ISSUE CAPTURE	



THURSDAY, 18 OCTOBER 2012 CONTINUED

COFFEE BREAK

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TRAINING FORUM

FORUM INTRO/OVERVIEW

CHAMPION - Dennis Kelly, IFATCA

AIR TRAFFIC CONTROL

REGULATORY / PROCEDURE DESIGN

AIRSPACE DESIGN

MILITARY TRAINING

REGIONAL TRAINING INITIATIVE

QUESTIONS FOR THE PANEL

REQUIREMENTS/ISSUES CAPTURE

DETERMINING AIRCRAFT ELIGIBILITY

SUPPORTING DOCUMENTATION - Safety Cases

QUESTIONS FOR THE PANEL

REQUIREMENTS/ ISSUE CAPTURE

LUNCH 13:00 - 14:00

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THURSDAY, 18 OCTOBER 2012 CONTINUED

14:15	- 17:00
REGULATORY AND CERTIFICATION FORUM	TECHNICAL REQUIREMENTS FORUM
FORUM INTRO/OVERVIEW CHAMPION - Honghai Yang, CAAC	FORUM INTRO/OVERVIEW CHAMPION - Geoff Burtenshaw, UK Civil Aviation Authority
AIRSPACE AND ATFM REGULATION	AN AIRCRAFT MANUFACTURER'S PERSPECTIVE
CERTIFICATION FOR INSTRUMENT APPROACH PROCEDURE DESIGN	AN AIRSPACE PERSPECTIVE
AIR TRAFFIC SYSTEM SUPPORT	AN INSTRUMENT PROCEDURE DESIGNERS PERSPECTIVE
	A THIRD PARTY PROVIDERS PERSPECTIVE
	QUESTIONS FOR THE PANEL
	REQUIREMENTS/ISSUES CAPTURE

COFFEE BREAK
Sponsored by



	TRAINING FORUM
EASA REGULATORY SOLUTIONS	FORUM INTRO/OVERVIEW
	CHAMPION - John Sullivan, CAE
ATFM MANUAL	USE OF FLIGHT SIMULATORS
ENVIRONMENTAL REGULATION ISSUES	REGULATORY REQUIREMENTS



THURSDAY, 18 OCTOBER 2012 CONTINUED

SAFETY CASE - PROCEDURE READY FOR FLIGHT DISPATCH/FLIGHT PLANNING TRAINING

QUESTIONS FOR THE PANEL QUESTIONS FOR THE PANEL

PUBLICATION?

REQUIREMENTS/ISSUE CAPTURE REQUIREMENTS/ISSUE CAPTURE

CLOSING REMARKS AND WORKSHOP SUMMARY

(17:00 - 17:10)



FRIDAY, 19 OCTOBER 2012 WORKSHOPS

"ON-FINAL" - SYMPOSIUM WRAP-UP MC - Vince Galotti, ICAO Moderator - Christian Schleifer, ANC President Recall of Objectives 09:00 - 09:10 Vince Galotti, ICAO 9:10 - 09:15 Purpose of session • Moderator - Christian Schleifer, ICAO ATM Workshop - The issues and next steps 09:15 - 09:45 • Moderator ATM Stream - David Maynard, CANSO 09:45 - 10:15 Flight Operations Workshop - The issues and next steps Moderator Flight Operations stream - Jeff MacDonald, ICAO → The Challenge 10:15 - 11:00 → Panel discussion & Questions 11:00 - 11:30 **COFFEE BREAK** Sponsored by BOEING 11:30 - 12:00 The issues and next steps consolidated Vince Galotti, ICAO

Closing speech - Nancy Graham, ICAO

12:00 - 12:15