

ACTION PLAN

GBAS SBAS Implementation TF

Last Updated: 2020/7/9

NUMBER	DOMAIN	ACTION ITEM	PRIORITY	OWNER	ASSIGNED	DUE	DONE
1	Develop awareness and information sharing						
1.1		Organize a workshop with airspace users of the APAC region (expected benefits, comparison with ILS and Baro VNAV, operational concept, coverage of SBAS and GBAS, programmes in the region, fleet readiness, cockpit interface, business case, retrofit)	HIGH	ICAO/IATA			
1.2		Communication campaign with an air operator already using SBAS or GBAS procedures	MEDIUM	ICAO/IATA			
1.3		Organize a specific meeting with APAC regulators interested in GBAS SBAS (update of regulation, certification of provider, certify pilot training and standard operating procedures, approval of procedures...)	HIGH	ICAO and some States to conduct a survey first			
1.4		Develop a brochure/ppt of the benefits of GBAS and SBAS vs ILS and APV Baro	MEDIUM	Who to be defined / To be done after the workshop with airspace users			
1.5		Develop a list of GBAS and/or SBAS programme managers/focal points in each APAC State	HIGH	ICAO / Action of the GBAS SBAS ITF/2			
1.6		Develop a synthetic list of the on going development of GBAS SBAS systems in the APAC region (coverage, date of entry into service)	HIGH	ICAO / To be put on the website / Action Focal point to provide GBAS SBAS programme information to ICAO			
1.7		Develop a synthetic list of GBAS and SBAS fleet readiness (type of receivers TSO)	MEDIUM	IATA			
1.8		Develop a list/map of published GBAS and SBAS procedures in the APAC region	MEDIUM	ICAO with input from focal points			
1.9		Develop a list of APAC States' mandates related to GBAS and SBAS	MEDIUM	ICAO with input from focal points			
2	Experience sharing						
2.1		Organize a discussion and a visit if possible of States/Airports who have already implemented Gbas or Sbas systems (all subjects including siting,performance demonstration, safety assessment...)	HIGH	ICAO / When possible			
3	Technical issues						
3.1		Review of the previous ionosphere studies published in 2016 (also look at how to use SBAS coverage for GBAS)	HIGH	Japan / Ad hoc group under GBAS SBAS ITF			
3.2		Management of SBAS Channel	MEDIUM	ICAO			
3.3		VDB frequency assignment and coordination in APAC	HIGH	ICAO with Hong Kong			
3.4		ATC interface and NOTAM matters (both for GBAS and SBAS) (Ref essential navigation means in Annex 10 ??)	MEDIUM	China/Japan ICAO/ NP and discussion for a future meeting			
3.5		SBAS coverage extension to neighboring States (simulation, adding ground station and associated costs, certification,Service Level Agreement)	MEDIUM	States operating SBAS should present WP			
3.6		GBAS and SBAS safety assessment	HIGH	States to share their experience			
3.7		GBAS SBAS performance demonstration (acc.in,avail,cont,time to alarm, data collection, simulation...)	HIGH	States to share their experience			
3.8		GNSS signal monitoring (legal recording...)	MEDIUM				
3.9		GBAS siting criteria	MEDIUM				
3.10-		Information to be provided in the flight plan	MEDIUM				
3.11		Final Approach Segment Data Block : 1) Tool to elaborate the FAS DB : 2) How to validate FAS DB during the ground and flight inspection	MEDIUM	States to share their experience			
3.12		Phraseology	LOW				
3.13		Lack of PRN numbers for SBAS Geo Satellites	MEDIUM	Mainly for new SBAS providers			
3.14		Interference management (but this is not only specific to GBAS SBAS)	MEDIUM	States to share their experience			
4	Quick guides						
4.1		ICAO and others document review (Top Down)	HIGH	ICAO / Website			
4.2		Develop High Level guide on Implementation Process for GBAS and SBAS	?				
4.3		Technical support for system certification and operation certification	?				
4.4		Complement the "PBN in a page"	LOW				
5	Training						
5.1		Develop syllabus for ATCOs	MEDIUM	To be confirmed			
5.2		Develop one day/two day training workshop for ATCOs (Use of GBAS/SBAS for approach and landing : mixity of traffic, ATC interface, Notam,...)	MEDIUM	To be confirmed			
5.3		Deliver a training module on GBAS and SBAS instrument flight procedure design	MEDIUM	ICAO TCB Flight Procedure Programme (FPP)			