SESAR		Removed						_OC		
NAV11		In	nplement p	recision app	proach proe	cedures usi	ng GBAS C	AT II/III bas	ed on GPS	L1
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

### Subject matter and scope

In current ILS Cat II/III operations there is a need to protect the ILS critical and sensitive areas which result in restricted ground movements and extra spacing margins between aircraft in order to accommodate the longer runway occupancy times (ROT) through the need to protect the larger ILS sensitive area. At capacity constrained airports this may lead to flights being diverted or even cancelled. In addition, this is typically also associated with longer flight times, i.e. more fuel being used.

This objective proposes the use of GBAS which has limited (GBAS Local Object Consideration Areas) or no protection areas, usually located outside aircraft movement areas. This allows the reduction of runway occupancy times in low visibility conditions resulting in reduced spacing between arrival aircraft. The amount of runway throughput gained depends on wake turbulence separation and any other additional spacing needs. With a proper siting of the GBAS ground equipment (compliant with the GBAS Local Object Consideration Areas), there's no need for critical/sensitive areas. Use of GBAS CAT II/III enables:

a) flexible approaches; synergistic with RNAV/RNP, PA where ILS cannot due to geography, signal stability (immune to signal bends inherent in ILS);

b) complement ILS at airports with multiple RWYs during LVP;

c) the rationalization of some ILS thus reducing operation and maintenance costs and optimizing spectrum;

d) PA at aerodromes without SBAS coverage or where PA performances cannot be achieved with SBAS.

Benefits of using GBAS CATII/II in Low Visibility Conditions include improved resilience of airport capacity with fewer flight cancellations due to LVP in force. GBAS CATII/III will enable runway ends which are not ILS CATII/III equipped to be used for CATII/III operations as long as the runway is CATII/III qualified. This will have positive effects on gaseous emissions, i.e. less CO2.

Note: The benefits mentioned are obviously only gained if a sufficient number of aircraft are equipped; therefore, an action should be included to promote airborne equipage, monitor aircraft equipage rate and assess incentives.

NOTE FOR MILITARY AUTHORITIES: It is the responsibility of each Military Authority to review this Objective IN ITS ENTIRETY and address each of the SLoAs that the Military Authority considers RELEVANT for itself. This has to be done on top and above of the review of "MIL" SLoAs which identify actions EXCLUSIVE to MIL Authorities.

## Applicability Area(s) & Timescale(s)

Applicability Area (Subject to local need.)			
Timescales:	From:	By:	Applicable to:
Subject to local need.	31/05/2019		
	References		

#### References

### European ATM Master Plan

OI step -	[AO-0505-A]-Improve Low Visibility Operation using GBAS Cat II/III based on GPS L1								
	Enablers -	A/C-02a	A/C-56	a CTE-N0 <sup>2</sup> NAV03.2	CTE-N07	CTE-N07b			
Legend:	WXYZ-001	Covered by S	LoA(s) in	WXYZ-002	Covered by SLoA	A(s) in another c	bjective	WXYZ-	Not covered in the
Legenu.	<u> </u>	this objective	ZZZ	Objective covering the enabler		003	Implementation Plan		

#### **Applicable legislation**

-none-	

### **Essential Operational Changes**

CNS Infrastructure and Services

### **SESAR Solution**

#55 - Precision approaches using GBAS CATII/III

### **ICAO GANP - ASBUs**

NAV11	Implement precision approach procedures using GBAS CAT II/III based on GPS L1
NAVS-B1/1	Extended GBAS

### **Deployment Programme**

- none -

## European Plan for Aviation Safety

RMT.0682

Implementation of the regulatory needs of the SESAR common projects

#### **Operating Environments**

Airport Terminal Airspace

## Stakeholder Lines of Action (SLoAs)

SloA ref.	Title	From	Ву
NAV11-REG01	Apply EASA material to local national regulatory activities		
NAV11-ASP01	Install GBAS CAT II/III ground equipment		
NAV11-ASP02	Design and Publish GBAS CAT II/III precision approach procedures		
NAV11-USE01	Equip aircraft with systems approved for GBAS CAT II/III		
NAV11-USE02	Get airworthiness certification and operational approval		
NAV11-INT01	Develop material for certification of GBAS ground facilities		
NAV11-IND01	Get certification for GBAS CAT II/III ground equipment		
Description of finalis	ed and deleted SLoAs is available on the eATM Portal @ https://www.eatmportal.eu/w	orking/depl/essip	objectives

# **Expected Performance Benefits**

Safety:	Safety of approach, landing and guided-take-off operations based on GBAS CAT III L1 (GAST-D) are as safe as operations based on ILS CAT III assuming the identified safety requirements are met. GBAS improves safety in the segment of avoiding a scenario of false LOC or Glide beam capture.
Capacity:	GBAS has limited (GBAS Local Object Consideration Areas) or no protection areas, usually located outside aircraft movement areas. This allows the reduction of runway occupancy times in low visibility conditions resulting in reduced spacing between arrival aircraft. The amount of runway throughput gained depends on wake turbulence separation and any other additional spacing needs.
Operational Efficiency:	Fewer flights will be cancelled or diverted saving the Airspace User (Main and Regional airliners) associated costs. To be noted that cancellations also affect the subsequent legs planned with those aircraft. Business Aviation see minimal benefits as they fly infrequently to capacity constrained airports during LVP. Avoiding the loss of runway capacity will reduce the level of delay and avoid the associated costs. A key issue is the impact of the primary delays on the subsequent legs to be performed by those aircraft which try to absorb the delay where possible. Higher glide slopes than those possible with ILS, 3.2° even in CAT II/III weather conditions.
Cost Efficiency:	One GBAS station can provide approaches for multiple runway end as well as multiple approaches per runway end. The GBAS station in the long term is much more cost efficient than the ILS in terms of less maintenance and flight inspection required.
Environment:	The environmental benefits come from the saving of jet fuel due to the resilience of the system in keeping its capacity even in Low Visibility Operations. Fuel savings results in direct reductions in CO2 emissions. There is also a direct benefit in term of local air quality by having less aircraft queuing on the runway for departure conditions. Noise abatement.
Security:	Not identified.

## **Detailed SLoA Descriptions**

		From:	By:			
NAV11-REG01	Apply EASA material to local national regulatory activities	-	-			
Action by:	State Authorities					
Description & purpose:	Publish national regulatory material for GBAS CAT II/III procedures based on Airworthiness Approval and Operational Criteria for GBAS CAT II/III (EASA AMC XX-YY).					
Supporting material(s):	SJU - SESAR Solution 55: Data Pack for Precision approaches using GBAS CAT II/III based on GPS L1 Url : https://www.sesarju.eu/sesar-solutions/precision-approaches-using-gbas-cat-iiiii					
Finalisation criteria:	1 - National regulatory material for GBAS CAT II/III procedures based on EASA AMC XX-YY					
NAV11-ASP01	Install GBAS CAT II/III ground equipment	From:	By:			

**NAV11** 

Implement precision approach procedures using GBAS CAT II/III based on GPS L1

		-	-		
Action by:	ANS Providers				
Description & purpose:	<ul> <li>Procure and install GBAS CAT II/III ground equipment to support the precision approach procedures based on GBAS CAT II/III.</li> <li>Perform siting and site feasibility study.</li> <li>Integrate GBAS CAT II/III ground equipment in ATC (&amp; airport) infrastructure.</li> <li>Verify performance of installed GBAS CAT II/III ground equipment (ground testing, flight testing).</li> <li>Develop maintenance and training material.</li> </ul>				
Supporting material(s):	SJU - SESAR Solution 55: Data Pack for Precision approaches using GBAS CAT II/III based on GPS L1 Url : https://www.sesarju.eu/sesar-solutions/precision-approaches-using-gbas-cat-iiiii ICAO - Annex 10 - Aeronautical Telecommunications Url : http://store1.icao.int/ ICAO - EUR-Doc 013 - Guidance Material on All Weather Operations at Aerodromes Url : https://www.icao.int/EURNAT/Pages/EUR-and-NAT-Document.aspx?RootFolder=%2FEURNAT%2FEUR%20and 20NAT%20Documents%2FEUR%20Documents%2F013%20%20EUR%20Guidance%20Material%20on% 20AWO%20at%				
	20Aerodromes&FolderCTID=0x012000DAF95319EADD9946B510C5 E18655C&View=%7B2666E7DD%2D5F4E%2D4E64%2DB16A%2D0				
ATM Master Plan relationship:	[CTE-N07]-Ground Based Augmentation System (GBAS) [CTE-N07b]-GBAS Cat II/III based on Single-Constellation / Single-Fr				
Finalisation criteria:	1 - GBAS CAT II/III is procured, installed and flight tested.				
NAV11-ASP02	Design and Publish GBAS CAT II/III precision approach procedures	From: -	By: -		
Action by:	ANS Providers				
Description & purpose:	Develop GBAS CAT II/III precision approach procedures at instrument runways. This action includes the following tasks - Identify runways where GBAS CAT II/III should be introduced; - Design GBAS CAT II/III procedures; - Provide Final Approach Segment (FAS) data for GBAS CAT II/III ground equipment (in EUROCAE ED-114B FAS data file format) - Publish GBAS CAT II/III procedures in national AIPs.				
Supporting material(s):	SJU - SESAR Solution 55: Data Pack for Precision approaches using GBAS CAT II/III based on GPS L1         Url : https://www.sesarju.eu/sesar-solutions/precision-approaches-using-gbas-cat-iiiii         ICAO - Doc 8168-Volume II - Aircraft Operations - Volume II - Construction of Visual and Instrument Flight Procedure Edition 5 / 11/2011         Url : https://store.icao.int/         ICAO - EUR-Doc 013 - Guidance Material on All Weather Operations at Aerodromes         Url : https://www.icao.int/EURNAT/Pages/EUR-and-NAT-Document.aspx?RootFolder=%2FEURNAT%2FEUR%20an 20NAT%20Documents%2FEUR%20Documents%2F013%20%2D%20EUR%20Guidance%20Material%20on% 20AWO%20at%         20Aerodromes&FolderCTID=0x012000DAF95319EADD9946B510C5D7B595637D00AA5EB47B299B9A4BAD1968E				
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NAV11-USE01 Action by: Description & purpose: Supporting material(s): ATM Master Plan relationship: Finalisation criteria: NAV11-USE02	Edition 5 / 11/2011 Url : https://store.icao.int/ ICAO - EUR-Doc 013 - Guidance Material on All Weather Operations Url : https://www.icao.int/EURNAT/Pages/EUR-and-NAT-Document.a 20NAT%20Documents%2FEUR%20Documents%2F013%20%2D%2 20AW0%20at% 20Aerodromes&FolderCTID=0x012000DAF95319EADD9946B510C5 E18655C&View=%7B2666E7DD%2D5F4E%2D4E64%2DB16A%2D0 1 - GBAS CAT II/III precision approach procedures have been implem published in the National AIP, and are in operational use. Equip aircraft with systems approved for GBAS CAT II/III Airspace Users Fit the aircraft with suitably approved equipment GBAS CAT II/III equi SJU - SESAR Solution 55: Data Pack for Precision approaches using Url : https://www.sesarju.eu/sesar-solutions/precision-approaches-usi [A/C-02a]-Enhanced positioning using GBAS single frequency [A/C-56a]-Flight management and guidance for Precision Approach G 1 - Aircraft have been fitted with suitable GBAS CAT II/III equipment c	at Aerodromes spx?RootFolder=%2 OEUR%20Guidance iD7B595637D00AA5 CF142A1E5BC9%7I nented in accordance From: - ipment compliant to I GBAS CAT II/III bas ng-gbas-cat-iiiii SBAS CAT II/III using compliant to EASA A From: -	2FEURNAT%2FEUR%20and         %20Material%20on%         SEB47B299B9A4BAD1968B         2         a with guidance material and         By:         -         EASA AMC XX-YY.         Sed on GPS L1         MC XX-YY.         By:         -		

ATM Master Plan	[A/C-02a]-Enhanced positioning using GBAS single frequency [A/C-56a]-Flight management and guidance for Precision Approach GBAS CATII/III using GPS L1					
relationship:						
Finalisation criteria:	1 - The airworthiness and operational approval has been granted by the competent National Authorities to the operator.					
NAV11-INT01	Develop material for certification of GBAS ground facilities	From: -	By:			
Action by:	EASA ICAO	1	1			
Description & purpose:	Publish EASA material for GBAS CAT II/III ground facilities approval/cer	tification.				
Supporting material(s):	ting material(s): SJU - SESAR Solution 55: Data Pack for Precision approaches using GBAS CAT II/III based on GPS L1					
	Url : https://www.sesarju.eu/sesar-solutions/precision-approaches-using-gbas-cat-iiiii					
Finalisation criteria:	1 - EASA material for approval of GBAS CAT II/III ground facilities has b	een published				
	Get certification for GBAS CAT II/III ground equipment	From:	By:			
NAV11-IND01		-	-			
Action by:	Airport Operators Industry	1	1			
Description & purpose:	Apply for certification of GBAS CAT II/III equipment against EASA material for approval of GBAS CAT II/III ground facilities (deliverable of SLoA NAV11-INT01), and EUROCAE ED-114B. The applicant needs to submit, to the competent National Authorities, a compliance statement which shows how the required criteria have been satisfied.					
	Note :This is action for GBAS equipment manufacturer					
ATM Master Plan	[CTE-N07]-Ground Based Augmentation System (GBAS)					
relationship:	[STD-026]-ED-114B, MOPS for GBAS ground systems to support precise	sion approach and landi	<u>ng (CATIII)</u>			
Finalisation criteria:	1 - The certificate/approval has been granted by the competent National	Authorities to the manu	ufacturer.			