

Appendix B-DP/4

Summary Table of Aviation System Block Upgrades (ASBU) Block 0 Modules

National ASBU implementation Plan- Guidance on Elements, Equipage and Measurement

EXPANATORY NOTES

Introduction: This document discusses ASBU Block 0 Modules, lists the elements it covers, identifies the equipage required both in the aircraft and on the ground, suggests ways to monitor implementation progress and explain qualitative benefits related to main five Key Performance Areas (KPAs). This document serves as a part of guidance material to States in the development of National ASBU implementation Plan.

Title of the Module:		
This box explains the title of the Module		
Elements:	<u>Equipage/Air</u>	Equipage/Ground
The elements of the Module are listed under this box.		
Should there be elements that are not reflected in the ASBU Module but at the same time they are	This box describes what	This box describes what
closely linked to the module, those elements are also specified. For example, in ASBU BO-	equipage is required in the	equipage is required on the
80/Airport CDM Module/ACDM, the elements aerodrome certification and data link applications-	<i>aircraft</i> for the elements	ground for the elements of
D-VOLMET, D-ATIS, D-FIS are not included; Similarly in ASBU B0-30/AIM/DATM Module,	of this module	this module
the elements WGS-84 and eTOD are not reflected.		
Implementation monitoring and intended performance impact		
This box explains implementation progress of the Module and identifies qualitative performance ben	efits associated with five main	h KPAs only. This box
contains two items.		
a) Indicators for monitoring the status of implementation the module;		
b) Qualitative performance benefits that allow assessing the benefits accrued as a result of implem		
known as Key Performance Areas (KPAs are interrelated and cannot be considered in isolation sin		
established for the system as a whole. It should be noted that while safety is the highest priority, the		
would appear in English. They are access/equity; capacity; cost effectiveness; efficiency; environme		
community; predictability; safety; and security. However, out of these eleven KPAs, for the presen		ve been selected for reporting
through Air Navigation Report Form (ANRF), which are Access & Equity, Capacity, Efficiency, Env	vironment and Safety.	
List of Performance (Benefit) Metrics for ASBU Modules - Examples		
It is not necessary that every module contributes to all of the five KPAs. Consequently, a limited nu		
measure the module(s)' implementation benefits, without trying to apportion these benefits between		
ASBU modules selected for air navigation implementation, States/Region to choose the applicable p		
20. This approach would facilitate States in collecting data for the chosen performance metrics. St	ates/Region, however, could	add new metrics for different
KPAs based on maturity of the system and ability to collect relevant data		

<u>Title of the Module:</u> B0-65/APTA: Optimization of Approach Procedures Including Vertical Guidance										
Elements: 1. APV with Baro VNAV 2. APV with SBAS 3. APV with GBAS		Equipage/Air - Basic IFR GNSS avionics integrated with Baro VNAV functionality - SBAS avionics - GBAS avionics		 <u>Equipage/Ground</u> SBAS (reference stations, master stations, GEO satellites) - GBAS 						
Implementation monitoring	g and intended perfor	<u> </u>								
Implementation progress		Qualitative performa	nce benefits associated	with five main KPAs onl	у					
1. Indicator:	KPA-Access/Equity	KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-Safety					
Percentage of international	Increased	Increased runway	Reduced fuel burn	Reduced emissions	Increased safety					
aerodromes having	aerodrome	capacity	due to lower	due to reduced fuel	through stabilized					
instrument runways	accessibility		minima, fewer	burn.	approach paths.					
provided with APV on the			diversions,							
basis of	•		cancellations, delays							
Baro VNAV/SBAS/GBAS										

<u>Title of the Module:</u> B0-70/WAKE: Increased Runway Throughput through optimized Wake Turbulence Separation									
 <u>Bo-70 WARE: Increased Kulway Throughp</u> <u>Elements</u> 1. Revision of current ICAO wake separation minima 2. Increasing International aerodrome Arrival Operational Capacity 3. Increasing International aerodrome Departure Operational Capacity 		<u>Equi</u> j - Nil	page/Air		 Equipage/Ground A support tool to aid new set of 6 categorid separation. Wind sensors and aut needed for element 3 				
Implementation monitoring		(l with five main KPAs on	2			
1. Indicator: <i>Percentage of international</i> <i>aerodromes applying the 6</i> <i>categories of wake vortex</i> <i>separation.</i>	KPA-Access/Eq Not Applicable	<u>uity</u>	<u>KPA-Capacity</u> Aerodrome capacity and departure/arrival rates will increase as the wake categories are increased from 3 to 6	<u>KPA-Efficiency</u> Not Applicable	KPA-Environment Not Applicable	<u>KPA-Safety</u> Not Applicable			

<u>Title of the Module:</u> B0-75/SURF: Safety and Efficiency of Surface Operations (A-SMGCS Level 1-2)								
 B0-75/SURF: Safety and Efficiency of Surface O <u>Elements</u> 1. Surveillance 2. Alerting systems 3. (Not included in the Module but added here as they are closely linked to this Module) Visual aids for navigation and Wild life strike hazard reduction 		Equipage/Air I - ADS-B / SSR transponder system - - - - -		 <u>Equipage/Ground</u> SMR/SSR Mode S/ ADS B/ Multilateration Surveillance display with alerting functionalities in the tower. A cooperative transponder system for vehicles Visual aids for navigation 				
Implementation monitoring	and intended perform	mance impact		0				
Implementation progress		Qualitative performanc	e benefits associated v	vith five main KPAs on	ly			
 Indicator: Percentage of international aerodromes with SMR/SSR Mode S/ADS-B Multilateration Indicator: Percentage of international aerodromes with a cooperative transponder systems on vehicles Indicator: Percentage of international 	KPA-Access/Equity Improves KPA- Access/Equity to portions of the manoeuvring area obscured from view of the control tower for vehicles and aircraft. Ensures equity in ATC handling of surface traffic regardless of the traffic's position on the international	Sustained level of aerodrome capacity during periods of reduced visibility	KPA-Efficiency Reduced taxi times through diminished requirements for intermediate holdings based on reliance on visual surveillance only. Reduced fuel burn.	KPA-Environment Reduced emissions due to reduced fuel burn	KPA-Safety Reduced runway incursions. Improved response to unsafe situations. Improved situational awareness leading to reduced ATC workload.			
aerodromes complying with visual aid requirements as per Annex 14	aerodrome.							

Title of the Module:								
B0-80/ACDM; Improved Airport Operations through Airport-CDM								
Elements:		Equi	page/Air		Equipage/Ground			
1. Airport –CDM		- Nil			- Interconnection of grou	ind systems of		
2.(Not included in the Mode	ule but added here				different partners for Ai	rport-CDM		
as they are closely linked to	this Module)				- Rescue and Fire Fightin	g (RFF) Equipment		
Aerodrome certification, Ae	erodrome				as per Annexe 14			
emergency planning, Airpor	rt planning and							
Heliport operations								
Implementation monitori	ng and intended per							
Implementation progress		Qu	alitative performance be	enefits associated wi	ith five main KPAs only	-		
1. Indicator:	KPA-Access/Equity		KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-Safety		
percentage of	Enhances equity on	the	Enhanced use of	Improved	Reduced emissions	Not Applicable		
international aerodromes	use of aerodrome		existing	operational	due to reduced fuel			
with Airport-CDM	facilities.		Implementation of	efficiency (fleet	burn			
			gate and stands	management); and				
2. Indicator:			(unlock latent	reduced delay.				
Percentage of certified			capacity).	Reduced fuel burn				
international aerodromes			Reduced workload,	due to reduced tax	i			
			better organization of	time and lower				
3. Indicator:			the activities to	aircraft engine run	1			
Percentage of			manage flights.	time.				
international aerodromes								
with RFF equipment as								
per Annex 14								

<u>Title of the Module:</u> B0-15/RSEQ: Improve Traffic Flow Through Runway Sequencing (AMAN/DMAN)									
Elements: 1.AMAN 2.DMAN				Equipage/Ground - Automation support					
Implementation monitoring	ng and intended perfo	rmance impact		I					
Implementation progress		Qualitative performa	nce benefits associated w	vith five main KPAs only	1				
1. Indicator:	KPA-Access/Equity	KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-Safety				
Percentage of	Not Applicable	Time-based	Efficiency is	Not Applicable	Not Applicable				
international aerodromes		metering will	positively impacted	* *	**				
with AMAN/DMAN		optimize usage of	as reflected by						
		terminal airspace	increased runway						
		and runway	throughput and						
		capacity.	arrival rates.						
		1							

Performance Improvement Area 2: Globally Interoperable Systems and Data – Through Globally Interoperable System Wide Information Management

<u>Title of the Module:</u> B0-25/FICE: Increased Interoperability, Efficiency and Capacity through Ground-Ground Integration								
B0-25/FICE: Increased Interoperability, Effi Elements: 1. AIDC 2. (Not included in the Module but added here as they are closely linked to this Module) AMHS/IPS		Equipage/Air - Nil -		Equipage/Ground - A set of AIDC messages in FDPS - AFTN (AMHS/IPS)				
Implementation monitoring	ng and intended perf	orma	ance impact					
Implementation progress		Qu	alitative performance	benefits associated wit	h five main KPAs only	/		
1. Indicator:	KPA-Access/Equity		KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-Safety		
Percentage of ATS units	Not Applicable		Reduced controller	The reduced	Not Applicable	Better knowledge of		
with AIDC			workload and	separation can also		more accurate flight		
			increased data	be used to more		plan information.		
2. Indicator:			integrity supporting	frequently offer				
States implementing			reduced separations	aircraft flight levels				
AMHS/IPS			translating directly	closer to the				
			to cross sector or	optimum; in certain				
			boundary capacity	cases, this also				
			flow increases.	translates into				
				reduced en-route				
				holding.				
				č				

Performance Improvement Area 2: Globally Interoperable Systems and Data – Through Globally Interoperable System Wide Information Management

B0-30/DATM; Service In Elements:	• · · · · · · · · · · · · · · · · · · ·	Equipage/Air	B	Equipage/Ground		
Elements: 1. AIXM 2. eAIP 3. Digital NOTAM 4.(Not included in the Module but added here as they are closely linked to this Module) WGS-84; eTOD; and QMS for AIM		Nil		AIXM; eAIP and Digi WGS-84; eTOD; QMS The aeronautical infor available to external us subscription to an elec physical delivery; The be based on Internet pr	S for AIM mation is made sers via either a tronic access or electronic access can	
Implementation monitori	ng and intended perfo	ormance impact				
Implementation progress		Qualitative performa	ance benefits associate	with five main KPAs only		
1. Indicator:	KPA-Access/Equity	KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-Safety	
States implementing AIXM; eAIP, Digital NOTAM WGS-84; eTOD; QMS for AIM	Not Applicable	Not Applicable	Not Applicable	Reduced amount of paper for promulgation of information	Reduction in the number of possible inconsistencies	

Performance Improvement Area 2: Globally Interoperable Systems and Data – Through Globally Interoperable System Wide Information Management

<u>Title of the Module:</u> B0-105/AMET: Meteorological information supporting enhanced operational efficiency and safety								
B0-105/AMET: Meteorological information s Elements: 1.WAFS-IAVW-TCW 2. Aerodrome warning, wind shear warning and alerts 3.SIGMET information		<u>Equipage/Air</u> - Nil		Equipage/Ground	FTN for reception of			
Implementation monitoring	g and intended perfo	¥	1 (" 1					
Implementation progress1 Indicator:States implementation ofSADIS 2G satellitebroadcast and/or SecureSADIS FTP service.2. Indicator:States implementation ofWAFS Internet File Service(WIFS)	KPA-Access/Equit Not Applicable	<u> </u>	Ance benefits associated v <u>KPA-Efficiency</u> Reduced arrival/departure holding time, thus reduced fuel burn due to MET support	KPA-Environment Reduced emissions due to reduced fuel burn due to MET support	KPA-Safety Reduced incidents/accidents in flight and at international aerodromes due to MET support.			

Title of the Module:B0-10/FRTO: Improved OElements:1. Airspace planning2. Flexible Use of airspace3. Flexible Routing	Ec	nanced En-Route Trajec uipage/Air FANS 1/A and ACARS		Equipage/Ground - CDM through Interne	et portal
Implementation monitoring	g and intended perfor	<u> </u>			
Implementation progress		Qualitative performance			
 Indicator: Percentage of time segregated airspaces are available for civil operations in the State Indicator: Percentage of PBN routes implemented 	KPA-Access/Equity Better access to airspace by a reduction of the permanently segregated volumes of airspace.	<u>KPA-Capacity</u> Flexible routing reduces potential congestion on trunk routes and at busy crossing points. The flexible use of airspace gives greater possibilities to separate flights horizontally. PBN helps to reduce route spacing and aircraft separations.	KPA-Efficiency In particular the module will reduce flight length and related fuel burn and emissions. The module will reduce the number of flight diversions and cancellations. It will also better allow avoiding noise sensitive areas.	KPA-Environment Fuel burn and emissions will be reduced.	<u>KPA-Safety</u> Not Applicable

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Title of the Module: B0-35/NOPS: Improved Flow Performance through Planning based on a Network-Wide view Elements: Equipage/Air Equipage/Ground									
Air Traffic Flow Management				- System software for A	ATFM				
Implementation monitoring	g and intended perform	ance impact							
Implementation progress	(Qualitative performance	benefits associated w	ith five main KPAs onl	у				
1. Indicator: <i>Percentage of ATS units using ATFM services.</i>	<u>KPA-Access/Equity</u> Improved Access and equity in the use of airspace or aerodrome by avoiding disruption of air traffic. ATFM processes take care of equitable distribution of delays.	<u>KPA-Capacity</u> Better utilization of available capacity, ability to anticipate difficult situations and mitigate them in advance.	<u>KPA-Efficiency</u> Reduced fuel burn due to better anticipation of flow issues; Reduced block times and times with engines on.	KPA-Environment Reduced fuel burn as delays are absorbed on the ground, with shut engines; or at optimum flight levels through speed or route management.	<u>KPA-Safety</u> Reduced occurrences of undesired sector overloads				

<u>Title of the Module:</u>									
B0-84/ASUR: Initial capability for ground surveillance									
Elements:		Equipage/Air		Equipage/Ground					
1.ADS-B		- ADS-B OUT.		- FDPS and SDPS					
2. Multilateration		- Mode S radar transponde	ers for	- ADS-B					
		Multilateration		- Multilateration					
Implementation monitori	ng and intended perf	formance impact							
Implementation progress		Qualitative performance	benefits associated v	vith five main KPAs onl	у				
1. Indicator: Percentage	KPA-Access/Equity	KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-Safety				
of international	Not Applicable	Typical separation	Not Applicable	Not Applicable	Reduction of the				
aerodromes with		minima are 3 NM or			number of major				
ADS-B/MLAT		5 NM enabling an			incidents. Support to				
		increase in traffic			search and rescue.				
		density compared to			_				
		procedural minima.							
		TMA surveillance							
		performance							
		improvements are							
		achieved through							
		high accuracy, better							
		velocity vector and							
		improved coverage.							

- 12 -

Title of the Module: B0-85/ASEP: Air Traffic Situational Awareness(ATSA)						
Elements: 1.ATSA-AIRB		Equipage/Air - ADS-B OUT - ADS-B IN		Equipage/Ground - Nil		
Implementation monitoring		raffic display nance impact				
Implementation progress		Qualitative perform	ance benefits associated v	with five main KPAs only	у	
1. Indicator: Percentage of	KPA-Access/Equity	KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-Safety	
aircraft with	Not Applicable	Not Applicable	Improved situational	Not Applicable	Improved situational	
ADS-B OUT			awareness in		awareness and	
			identifying level		reduced likelihood of	
2. Indicator: Percentage of			change opportunities		wake turbulence	
aircraft with			with current		encounters and	
ADS-B IN			separation minima		missed approaches.	
			(AIRB) and improved		11	
			visual acquisition			
			(VSA).			
			(. ~ / .			

Title of the Module: B0-86/OPFL: Improved KPA-Access/Equity to Optimum Flight Levels through Climb/Descent Procedures using ADS-B						
Elements: ITP using ADS-B	<u>Equipage/Air</u> - ADS-B IN - ADS-B OUT			Equipage/Ground - Conflict probe logics		
Implementation monitoring Implementation progress	Implementation monitoring and intended performance impact Implementation progress Qualitative performance benefits associated with five main KPAs only					
<i>1. Indicator: Percentage of aircraft used ITP</i>	KPA-Access/Equity Not Applicable	<u>KPA-Capacity</u> Improvement in capacity on a given air route.	KPA-Efficiency Increased efficiency on oceanic and potentially continental en- route	KPA-Environment Reduced emissions	KPA-Safety A reduction of possible injuries for cabin crew and passengers.	

- 14 -

<u>Title of the Module:</u> B0-102/SNET: Increased Effectiveness of Ground-Based Safety Nets					
Elements: 1.Short Term Conflict Alert (STCA) 2.Area Proximity Warning (APW) 3.Minimum Safe Altitude Warning (MSAW)		uipage/Air SR Mode C/S transponder .DS-B OUT		Equipage/Ground - Short Term Conflict Alert, - Area Proximity Warnings and - Minimum Safe Altitude Warnings	
Implementation monitoring	g and intended perform	mance impact		•	
Implementation progress		Qualitative performance	e benefits associated	with five main KPAs onl	y
1. Indicator:	KPA-Access/Equity	KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-Safety
Percentage of ATS units with ground based safety nets	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Significant reduction of the number of major incidents

Performance Improvement Area 4: Efficient Flight Path – Through Trajectory-based Operations

Title of the Module:							
	B0-05/CDO: Improved Flexibility and Efficiency in Descent Profiles (CDO)						
Elements:		Equi	Equipage/Air		Equipage/Ground		
1. CDO		- Nil		- Nil			
2. PBN STARs							
Implementation monitoring	g and intended per	forma	ance impact				
Implementation progress		Q	ualitative perform	ance benefits associated	with five main KPAs only	у	
1. Indicator: Percentage of	KPA-Access/Equit	<u>ty</u>	KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-safety	
international aerodromes	Not Applicable		Not Applicable	Cost savings through	Reduced emissions as	More consistent flight	
with CDO implemented				reduced fuel burn.	a result of reduced	paths and stabilized	
				Reduction in the	fuel burn	approach paths.	
2. Indicator: <i>Percentage of</i>				number of required		Reduction in the	
international				radio transmissions.		incidence of	
aerodromes/TMAs with						controlled flight into	
PBN STARs implemented						terrain (CFIT).	

Performance Improvement Area 4: Efficient Flight Path – Through Trajectory-based Operations

<u>Title of the Module:</u> B0-40/TBO: Improved Safety and Efficiency through the initial application of Data Link En-Route						
Elements:			page/Air		Equipage/Ground	
1. ADS-C over oceanic and	remote areas	- FA	NS 1/A; ATN B1		- ADS-C	
2. Continental CPDLC					- VDL Mode 2/Continer	ntal CPDLC
Implementation monitori	ng and intended per					
Implementation progress		Qı	alitative performance be	enefits associated wit	h five main KPAs only	
1. Indicator:	KPA-Access/Equity	/	KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-afety
Number of	Not Applicable		A better localization	Routes/tracks and	Reduced emissions	ADS-C based
ADS-C/CPDLC			of traffic and reduced	flights can be	as a result of reduced	safety nets
procedures available			separation allow	separated by	fuel burn.	supports cleared
over oceanic and remote			increased capacity.	reduced minima,		level adherence
Areas			Reduced	allowing to apply		monitoring, route
			communication	flexible routings		adherence
			workload and better	and vertical profile	5	monitoring, danger
			organization of	closer to the user-		area infringement
			controller tasks	preferred ones.		warning and
			allowing increasing			improved search
			sector capacity.			and rescue.
						Reduced
						occurrences of
						misunderstandings;
						solution to stuck
						microphone
						situations.

Performance Improvement Area 4: Efficient Flight Path – Through Trajectory-based Operations

Title of the Module:B0-20/CCO: Improved Flexibility and Efficiency in Departure Profiles (CCO)Elements: 1.CCO 2.PBN SIDsEquipage/Air - Nil				Equipage/Ground - Nil	
Implementation monitoring	g and intended perfor	mance impact			
Implementation progress		Qualitative perform	nance benefits associated	with five main KPAs on	у
1. Indicator: Percentage of	KPA-Access/Equity	KPA-Capacity	KPA-Efficiency	KPA-Environment	KPA-Safety
<i>international aerodromes</i> <i>with CCO implemented</i>	Not Applicable	Not Applicable	Cost savings through reduced fuel burn and	Authorization of operations where	More consistent flight paths. Reduction in
			efficient aircraft	noise limitations	the number of
2. Indicator: <i>Percentage of</i> <i>international aerodromes</i>			operating profiles. Reduction in the	would otherwise	required radio
with PBN SIDs			number of required	result in operations being curtailed or	transmissions. Lower pilot and air
implemented			radio transmissions.	restricted.	traffic control
impremenieu				Environmental	workload
				benefits through	workiouu
				reduced emissions.	
4					<u> </u>

LIST OF PERFORMANCE (BENEFIT) METRICS FOR ASBU MODULES - EXAMPLES

Key Performance Area	Related Performance Metrics				
1. Access & Equity	1. KPA/Access: Number of international aerodromes with APV				
	2. KPA/Access: Percentage of time Special Use Airspace (SUA) available to Civil Operations				
	3. KPA/Access: Percentage of requested flight level versus cleared flight level				
	4. KPA/Access: Number of access denials due to equipment failure				
	5. KPA/Equity: Percentage of aircraft operators by class who consider that equity is achieved				
	6. KPA/Equity: Percentage of different types of aircraft operating in a particular airspace or international aerodrome.				
2. Capacity	1. Number of operations (arrivals+departures) per international aerodrome per day				
	2. Average ATFM delay per flight at an international aerodrome				
	3. Number of landings before and after APV per international aerodrome				
	4. Average en-route ATFM delay generated by airspace volume				
	5. Number of aircraft in a defined volume of airspace for a period of time				
3. Cost effectiveness	1. IFR movements per ATCO hour on duty				
	2. IFR flights (en-route) per ATCO hour duty				
4. Efficiency	1. Kilograms of fuel saved per flight				
	2. Average ATFM delay per flight at the international aerodrome				
	3. Percentage of PBN routes				
5. Environment	1. Kilograms of CO ₂ emissions reduced per flight (= KGs fuel saved per flight x 3.157)				
	2. The number of electronic pages dispatched				
6. Flexibility	1. Number of backups available in emergency				
	2. Number of changes approved to the flight plan				
	3. Number of alternatives granted				
7. Global Interoperability	1. Number of ATC automated systems that are interconnected				
8. Participation of the ATM	1. Level of participation in meetings				
Community	2. Level of responses to planning activities				
9. Predictability	1. Arrival/departure delay (in minutes) at international aerodrome				

Key Performance Area	Related Performance Metrics				
10. Safety	1. Number of runway incursions per international aerodrome per year				
	2. Number of incidents/accidents with MET conditions as a sole or as a contributory factor				
	3. Number of ACAS RA events				
	4. Number of CFIT accidents				
	5.Number of missed approaches avoided due to use of CDO				
11. Security	Not Applicable				

REFERENCE TABLE FOR THE NEW AND OLD ASBU MODULES NUMBERING

Old ASBU Modules Numbering System	New ASBU Modules Identifiers			
65	APTA	Airport Accessibility		
70	WAKE	Wake Turbulence Separation		
15	RSEQ	Arrival/Departure Management		
75	SURF	Surface Operations		
80	ACDM	Airport Collaborative Decision Making		
81	RTWR	Remote Aerodrome Control Towers		
25	FICE	<i>FF/ICE</i>		
30	DAIM	Digital Aeronautical Management		
31	SWIM	System Wide Information Management		
105	AMET	Advanced Meteorological Information		
10	FRTO	Free Routing		
35	NOPS	Network Operations		
84	ASUR	Initial Surveillance		
85	ASEP	Airborne Separation		

Old ASBU Modules Numbering System	New ASBU Modules Identifiers	Old ASBU Modules Numbering System
86	OPFL	Optimum Flight Levels
101	ACAS	Airborne Collision Avoidance Systems
102	SNET	Ground-Based Safety Nets
05	CDO	Continuous Descent Operations
40	TBO	Trajectory-Based Operations
20	CCO	Continuous Climb Operations
90	RPAS	Remotely Piloted Aircraft Systems

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