SES	Achieved		EU+
ITY-COTR	**Implementation of ground-ground automated co-ordination processes**		
REG **ASP**	**MIL** APO USE INT IND NM MET AIS USP		

Subject matter and scope

This SES-related implementation objective is derived from Regulation (EC) No 1032/2006 of 06 July 2006 laying down requirements for the exchange of flight data for the purpose of notification, coordination and transfer of flights between air traffic control units.

Regulation (EC) No 1032/2006 applies to:

- Flight data processing systems serving air traffic control units providing services to general air traffic;
- Flight data exchange systems supporting the coordination procedures between air traffic services units and controlling military units.

This objective covers the following mandatory processes, supported by system information exchanges:
- Notification;
- Initial Coordination;
- Revision of Coordination;
- Abrogation of Coordination;
- Basic Flight Data;
- Changes to Basic Flight Data.
As described in Regulation (EC) No 1032/2006, Annex I (Parts A and B).

This SES-related implementation objective does not replace the EC legislation. It aims at facilitating the monitoring and reporting of the implementation of ground-ground coordination processes in European ATM in line with the EC regulations and through the SES implementation monitoring and reporting mechanism.

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	All ECAC States except: Armenia, Azerbaijan, Israel, Morocco, Türkiye, Ukraine. Plus: Israel, Morocco		

Timescales:	From:	By:	Applicable to:
For putting into service of EATMN systems in respect of notification and initial coordination processes		27/07/2006	Applicability Area
Entry into force of Regulation	27/07/2006		Applicability Area
For putting into service of EATMN systems in respect of Revision of Coordination, Abrogation of Coordination, Basic Flight Data and Change to Basic Flight Data		01/01/2009	Applicability Area
To all EATMN systems in operation by 12/2012		31/12/2012	Applicability Area

References

European ATM Master Plan

OI step -	[CM-0201]-Automated Assistance to Controller for Seamless Coordination, Transfer and Dialogue							
	Enablers -	PRO-048						

Legend:	WXYZ-001	Covered by SLoA(s) in this objective	WXYZ-002 zzz	Covered by SLoA(s) in another objective Objective covering the enabler	WXYZ-003	Not covered in the Implementation Plan

Applicable legislation

Regulation (EC) No 1032/2006 of 06 July 2006 laying down requirements for automatic systems for the exchange of flight data for the purpose of notification, coordination and transfer of flights between air traffic control units.

Essential Operational Changes

- none -

SESAR Solution

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ICAO GANP - ASBUs

FICE-B0/1	Automated basic inter facility data exchange (AIDC)

Deployment Programme

- none -	

European Plan for Aviation Safety

- none -	

Operating Environments

En-Route
Network
Terminal Airspace

Stakeholder Lines of Action (SLoAs)

SloA ref.	Title	From	By
ITY-COTR-REG01	Ensure oversight of changes to system	**DELETED**	
ITY-COTR-ASP01	Implement flight data processing and exchange systems		01/01/2009 31/12/2012
ITY-COTR-ASP02	Implement Notification process		27/07/2006 31/12/2012
ITY-COTR-ASP03	Implement Initial Coordination process		27/07/2006 31/12/2012
ITY-COTR-ASP04	Implement Revision of Coordination process	31/12/2012	01/01/2009 31/12/2012
ITY-COTR-ASP05	Implement Abrogation of Coordination process		01/01/2009 31/12/2012
ITY-COTR-ASP06	Implement Basic Flight Data process		01/01/2009 31/12/2012
ITY-COTR-ASP07	Implement Change to Basic Flight Data process		01/01/2009 31/12/2012
ITY-COTR-ASP08	Implement Logon Forward process	**DELETED**	
ITY-COTR-ASP09	Implement Next Authority Notified process	**DELETED**	
ITY-COTR-ASP10	Develop safety assessment		01/01/2009 31/12/2012
ITY-COTR-ASP11	Organise training to Air Traffic Control personnel		31/12/2012
ITY-COTR-MIL01	Implement Basic Flight Data process		01/01/2009 31/12/2012
ITY-COTR-MIL02	Implement Change to Basic Flight Data process		01/01/2009 31/12/2012

Description of finalised and deleted SLoAs is available on the eATM Portal @ https://www.eatmportal.eu/working/depl/essip_objectives

Expected Performance Benefits

Safety:	Reduction of human error.
Capacity:	Reduction of controller workload. Reduction in aircrew workload as regards the AGDL login messages (ASP08 and ASP09);
Operational Efficiency:	-
Cost Efficiency:	More efficient planning and operational decision making.
Environment:	N/A
Security:	N/A

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Detailed SLoA Descriptions

ITY-COTR-ASP01	Implement flight data processing and exchange systems	From:	By:
		-	01/01/2009 31/12/2012

Action by:	**ANS Providers**
Description & purpose:	The system shall provide all the information required for the display, processing and compilation of the system information exchanged in the process specified. [Regulation (EC) No 1032/2006, Annex I, Part A].
Derogations:	It shall not apply to flight data processing systems for which the flight data are synchronised by means of a common system.
Supporting material(s):	EUROCONTROL - SPEC-106 - EUROCONTROL Specification for On-Line Data Interchange (OLDI) - Edition 5.0 / 07/2020 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi
Finalisation criteria:	1 - Flight data processing and exchange systems have been upgraded. 2 - The technical file (TF) with evidences of compliance and the EC declaration of verification of systems (DoV) have been delivered to the competent National Supervisory Authority (NSA). 3 - Upgraded flight data processing and exchange systems have been put into service.

ITY-COTR-ASP02	Implement Notification process	From:	By:
		-	27/07/2006 31/12/2012

Action by:	**ANS Providers**
Description & purpose:	Implement a process of notification of flight between ATC units. The Notification process satisfies the following operational requirements: - Provide for acquisition of missing flight plan data; - Provide advance boundary information and revisions thereto for the next ATC unit; - Update the basic flight plan data; - Facilitate early correlation of radar tracks; - Facilitate accurate short-term sector load assessment; - Request the assignment of an SSR code from the unit to which the above notification is sent, if required. This process shall comply with the interoperability and performance requirements specified in Art. 3 of Regulation (EC) No 1032/2006.
Derogations:	It shall not apply to flight data processing systems for which the flight data are synchronised by means of a common system.
Supporting material(s):	EUROCONTROL - SPEC-107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.3 / 07/2020 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp EUROCONTROL - SPEC-106 - EUROCONTROL Specification for On-Line Data Interchange (OLDI) - Edition 5.0 / 07/2020 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi
Finalisation criteria:	1 - The Notification process has been implemented, documented and is in operational use with all partners within the applicability area.

ITY-COTR-ASP03	Implement Initial Coordination process	From:	By:
		-	27/07/2006 31/12/2012

Action by:	**ANS Providers**
Description & purpose:	Implement a process of initial coordination of flight between ATC units. The Initial Coordination process satisfies the following operational requirements: - Replace the verbal boundary estimate by transmitting automatically details of a flight from one ATC unit to the next prior to the transfer of control; - Update the basic flight plan data in the receiving ATC unit with the most recent information; - Facilitate distribution and display of flight plan data within the receiving ATC unit to the working positions involved; - Enable display of correlation in the receiving ATC unit; - Provide transfer conditions to the receiving ATC unit. This process shall comply with the interoperability and performance requirements specified in Art. 3 of Regulation (EC) No 1032/2006.
Derogations:	It shall not apply to flight data processing systems for which the flight data are synchronised by means of a common system.

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Supporting material(s):	EUROCONTROL - SPEC-107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.3 / 07/2020
	Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp
	EUROCONTROL - SPEC-106 - EUROCONTROL Specification for On-Line Data Interchange (OLDI) - Edition 5.0 / 07/2020
	Url : https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi
Finalisation criteria:	1 - The Initial Coordination process has been implemented, documented and is in operational use.

ITY-COTR-ASP04	Implement Revision of Coordination process	From:		By:
		-		01/01/2009 31/12/2012
Action by:	**ANS Providers**			
Description & purpose:	Implement a process of revision of coordination of flight between ATC units. The Revision of Coordination process is used to transmit revisions to co-ordination data previously sent in an Initial Coordination message provided that the accepting unit does not change as a result of the modification. This process shall comply with the interoperability and performance requirements specified in Art. 3 of Regulation (EC) No 1032/2006.			
Derogations:	It shall not apply to flight data processing systems for which the flight data are synchronised by means of a common system.			
Supporting material(s):	EUROCONTROL - SPEC-107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.3 / 07/2020			
	Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp			
	EUROCONTROL - SPEC-106 - EUROCONTROL Specification for On-Line Data Interchange (OLDI) - Edition 5.0 / 07/2020			
	Url : https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi			
Finalisation criteria:	1 - The Revision of Coordination process has been implemented, documented and is in operational use.			

ITY-COTR-ASP05	Implement Abrogation of Coordination process	From:		By:
		-		01/01/2009 31/12/2012
Action by:	**ANS Providers**			
Description & purpose:	Implement a process of abrogation of coordination of flight between ATC units. An Abrogation of Coordination process is used to indicate to the receiving unit that the co-ordination or notification previously effected for a flight is being abrogated. The Abrogation of Coordination message is not a replacement for a Cancellation message, as defined by ICAO, and therefore, shall not be used to erase the basic flight plan data. The abrogation of coordination process shall ensure association with the previous notification or coordination process that is being cancelled. This process shall comply with the interoperability and performance requirements specified in Art. 3 of Regulation (EC) No 1032/2006.			
Derogations:	It shall not apply to flight data processing systems for which the flight data are synchronised by means of a common system.			
Supporting material(s):	EUROCONTROL - SPEC-107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.3 / 07/2020			
	Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp			
	EUROCONTROL - SPEC-106 - EUROCONTROL Specification for On-Line Data Interchange (OLDI) - Edition 5.0 / 07/2020			
	Url : https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi			
Finalisation criteria:	1 - The Abrogation of Coordination process has been implemented, documented and is in operational use.			

ITY-COTR-ASP06	Implement Basic Flight Data process	From:		By:
		-		01/01/2009 31/12/2012
Action by:	**ANS Providers**			

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Description & purpose:	Implement a process for the provision of basic flight data between ATC units which: - Forwards basic flight data from civil units to military units and, if bilaterally agreed, from military units to civil units; - Forwards basic flight data to an ATSU which requires information on the flight but whose airspace is not planned to be penetrated by the flight, e.g. where the route takes the flight close to the boundary and a Letter of Agreement exists requiring such flights to be notified of coordinated; - Identifies the controller/console having the flight under control, particularly where it may not be apparent from the current position of the flight as is the case at a number of military units; - Activates the system flight plan in the receiving unit, if necessary; - Allows correlation of radar data with flight plan data. This process shall comply with the interoperability and performance requirements specified in Art. 3 of Regulation (EC) No 1032/2006.
Derogations:	It shall not apply to flight data processing systems for which the flight data are synchronised by means of a common system.
Supporting material(s):	EUROCONTROL - SPEC-107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.3 / 07/2020 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp EUROCONTROL - SPEC-106 - EUROCONTROL Specification for On-Line Data Interchange (OLDI) - Edition 5.0 / 07/2020 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi
Finalisation criteria:	1 - The Basic Flight Data process has been implemented, documented and is in operational use.

ITY-COTR-ASP07	Implement Change to Basic Flight Data process	From: -	By: 01/01/2009 31/12/2012

Action by:	ANS Providers
Description & purpose:	Implement a process for change to basic flight data between ATC units. The Change to Basic Flight Data process is for the unit controlling the flight to notify the interested unit of: - All significant changes to flight data previously sent to this unit with a Basic Flight Data / Change to Basic Flight Data; - All flight data required to be notified by bilateral agreement and not included in the Basic Flight Data or previous Change to Basic Flight Data . This process shall comply with the interoperability and performance requirements specified in Art. 3 of Commission Regulation (EC) No 1032/2006.
Derogations:	It shall not apply to flight data processing systems for which the flight data are synchronised by means of a common system.
Supporting material(s):	EUROCONTROL - SPEC-107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.3 / 07/2020 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp EUROCONTROL - SPEC-106 - EUROCONTROL Specification for On-Line Data Interchange (OLDI) - Edition 5.0 / 07/2020 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi
Finalisation criteria:	1 - The Change to Basic Flight Data process has been implemented, documented and is in operational use.

ITY-COTR-ASP10	Develop safety assessment	From: -	By: 01/01/2009 31/12/2012

Action by:	ANS Providers
Description & purpose:	Develop a safety assessment of system's changes to support notification, coordination and transfer of flights between ATC units. This safety assessment shall be carried out in accordance with Art. 6 of Commission Regulation (EC) No 1032/2006 (coordination and transfer) and Commission Implementing Regulation (EC) No 1034/2011 (safety oversight).
Supporting material(s):	EC - COMMISSION IMPLEMENTING REGULATION (EU) 2017/373 - (OJ L 62, 8.03.2017, p. 1) - COMMISSION IMPLEMENTING REGULATION (EU) 2017/373 of 1 March 2017 laying down common requirements for providers of air traffic management/air navigation services and other air traffic management network functions and their oversight, repealing Regulation (EC) No 482/2008, Implementing Regulations (EU) No 1034/2011, (EU) No 1035/2011 and (EU) 2016/1377 and amending Regulation (EU) No 677/2011 03/2017 Url : https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32017R0373&from=EN EUROCONTROL - Air Navigation Systems Safety Assessment Methodology (SAM) - Version 2.1 / 11/2006 Url : https://www.eurocontrol.int/tool/safety-assessment-methodology
Finalisation criteria:	1 - Safety assessment has been performed. 2 - If the conditions specified in Art. 9 of Regulation (EC) 1034/2011 are fulfilled: - Safety argument to be reviewed by the NSA;- Introduction into service of changes has been accepted by the NSA.

ITY-COTR-ASP11	Organise training to Air Traffic Control personnel	From:	By:

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			-	31/12/2012

Action by:	**ANS Providers**			
Description & purpose:	In line with the date of applicability for the putting into service of the system, develop and maintain operations manuals and ensure that: - All personnel are made aware of the requirements laid down in Regulation (EC) No 1032/2006 and adequately trained; - Operations manuals and working methods comply with requirements specified in Regulation (EC) No 1032/2006 Annex I, Parts A, B and D.			
Finalisation criteria:	1 - Air Navigation Service Providers have produced the operations manuals and the training programmes. 2 - All relevant personnel have been trained.			

			From:	By:
ITY-COTR-MIL01	**Implement Basic Flight Data process**		-	01/01/2009 31/12/2012

Action by:	**Military Authorities**
Description & purpose:	Implement a process for the transmission of basic flight data between ATC units (civil and military) which: - Forwards basic flight data from civil units to military units and, if bilaterally agreed, from military units to civil units; - Forwards basic flight data to an ATSU which requires information on the flight but whose airspace is not planned to be penetrated by the flight, e.g. where the route takes the flight close to the boundary and a LoA exists requiring such flights to be notified of coordinated; - Identifies the controller/console having the flight under control, particularly where it may not be apparent from the current position of the flight as is the case at a number of military units; - Activates the system flight plan in the receiving unit, if necessary; - Allows correlation of radar data with flight plan data. Information subject to the basic flight data process shall provide as a minimum: aircraft identification, SSR mode and code. This process shall comply with the interoperability and performance requirements specified in Art. 3 of Regulation (EC) No 1032/2006.
Derogations:	It shall not apply to flight data processing systems for which the flight data are synchronised by means of a common system.
Supporting material(s):	EUROCONTROL - SPEC-107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.3 / 07/2020 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp EUROCONTROL - SPEC-106 - EUROCONTROL Specification for On-Line Data Interchange (OLDI) - Edition 5.0 / 07/2020 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi
Finalisation criteria:	1 - The Basic Flight Data process has been implemented, documented and is in operational use.

			From:	By:
ITY-COTR-MIL02	**Implement Change to Basic Flight Data process**		-	01/01/2009 31/12/2012

Action by:	**Military Authorities**
Description & purpose:	Implement a process for the transmission of changes to basic flight data between ATC units (civil and military). The Change to Basic Flight Data process is for the unit controlling the flight to notify the interested unit of: - All significant changes to flight data previously sent to this unit with a Basic Flight Data / Change to Basic Flight Data ; - All flight data required to be notified by bilateral agreement and not included in the Basic Flight Data or previous Change to Basic Flight Data Information subject to the basic flight data process shall provide as a minimum: aircraft identification, SSR mode and code. The process shall comply with the interoperability and performance requirements specified in Art. 3 of Commission Regulation (EC) No 1032/2006.
Derogations:	It shall not apply to flight data processing systems for which the flight data are synchronised by means of a common system.
Supporting material(s):	EUROCONTROL - SPEC-107 - EUROCONTROL Specification for ATS Data Exchange Presentation (ADEXP) - Edition 3.3 / 07/2020 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-ats-data-exchange-presentation-adexp EUROCONTROL - SPEC-106 - EUROCONTROL Specification for On-Line Data Interchange (OLDI) - Edition 5.0 / 07/2020 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi
Finalisation criteria:	1 - The Change to Basic Flight Data process has been implemented, documented and is in operational use.