

SESAR		Removed							ECAC+	
ATC17		Electronic Dialogue as Automated Assistance to Controller during Coordination and Transfer								
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

## Subject matter and scope

The operational context of electronic dialogue as automated assistance to controller during coordination and transfer addresses the facilities and processes between ATC components serving ATC units for the purpose of achieving:

1. The electronic dialogue in co-ordination prior to the transfer of flights from one ATC unit to the next.

In the scope of this objective the implementers should use the following OLDI messages in order to perform an electronic dialogue :

- Referred Activate Proposal Message (RAP);
- Referred Revision Proposal Message (RRV)
- Co-ordination Message (CDN)
- Acceptance Message (ACP)
- Reject Co-ordination Message (RJC)
- Stand-by Message (SBY)

2. The transfer of communication from one ATC unit to the next ATC unit of such flights.

In the scope of this objective the implementers should use the following OLDI messages in order to perform an electronic dialogue:

- Change of Frequency Message (COF)
- Manual Assumption of Communications Message (MAS)
- Transfer Initiation Message (TIM)
- Supplementary Data Message (SDM)
- Hand-Over Proposal Message (HOP)
- Request on Frequency Message (ROF)

3. The coordination processes that support the exchange of OLDI messages related to the Basic procedure, specifically Preliminary Activation Message (PAC) and, if applicable, SSR Code Assignment Message (COD).

The system permits controllers to conduct screen to screen coordination between adjacent ATSUs / sectors reducing workload associated with coordination, integration and identification tasks. The system supports coordination dialogue between controllers and transfer of flights between ATSUs, and facilitates early resolution of conflicts through inter ATSU/sector coordination.

**NOTE:** This objective complements the (mandatory) requirements of basic notification, coordination and transfer functionalities which were covered in Implementation objective ITY-COTR (achieved in 2015) and regulated by Regulation (EC) No 1032/2006.

**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 military authorities.

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

Applicability Area				
Timescales:		From:	By:	Applicable to:
Initial operational capability		01/01/2013		Applicability Area
Full operational capability			01/01/2022	Applicability Area

## References

### European ATM Master Plan

OI step -	<a href="#">[CM-0201]-Automated Assistance to Controller for Seamless Coordination, Transfer and Dialogue</a>									
	Enablers -	PRO-048								
OI step -	<a href="#">- No OI Link -</a>									
	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
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### Applicable legislation

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

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Essential Operational Changes

- none -
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SESAR Solution

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ICAO GANP - ASBUs

- none -	
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Deployment Programme

- none -	
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European Plan for Aviation Safety

- none -	
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Operating Environments

En-Route
Network
Terminal Airspace

Stakeholder Lines of Action (SLoAs)

SLoA ref.	Title	From	By
ATC17-REG01	Conduct safety oversight of the changes	DELETED	
ATC17-ASP01	Develop safety assessment for the changes	01/01/2013	01/01/2022
ATC17-ASP02	Upgrade and put into service ATC system to support the Basic procedure (specifically PAC and COD)	01/01/2013	01/01/2022
ATC17-ASP03	Upgrade and put into service ATC system to support electronic dialogue procedure in Transfer of communication process	01/01/2013	01/01/2022
ATC17-ASP04	Upgrade and put into service ATC system to support electronic dialogue procedure in Coordination process	01/01/2013	01/01/2022
ATC17-ASP05	Train ATC staff for applying electronic dialogue procedure	01/01/2013	01/01/2022
Description of finalised and deleted SLoAs is available on the eATM Portal @ <a href="https://www.eatmportal.eu/working/depl/essip_objectives">https://www.eatmportal.eu/working/depl/essip_objectives</a>			

Expected Performance Benefits

<b>Safety:</b>	Reduction of human error due to automation of controller tasks during coordination and transfer.
<b>Capacity:</b>	Reduction of controller workload compared to conventional processes without automated support.
<b>Operational Efficiency:</b>	More efficient planning and operational decision making.
<b>Cost Efficiency:</b>	-
<b>Environment:</b>	-
<b>Security:</b>	-

Detailed SLoA Descriptions

ATC17-ASP01	Develop safety assessment for the changes	From:	By:
		01/01/2013	01/01/2022
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	Develop safety assessment of the changes, notably upgrades of the system to support Electronic Dialogue during Coordination and Transfer. The tasks to be done are as follows: <ul style="list-style-type: none"> <li>- Conduct hazard identification, risk assessment in order to define safety objectives and safety requirements mitigating the risks;</li> <li>- Develop safety assessment;</li> <li>- Deliver safety assessment to the NSA, if new standards are applicable or if the severity class of identified risks is 1 or 2.</li> </ul> This safety assessment shall be based on fully validated/recognised method.		

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<b>Supporting material(s):</b>	EUROCONTROL - EAM 4 - ESARR 4 - Risk Assessment and Mitigation in ATM - Edition 1.0 / 04/2001 Url : <a href="https://www.eurocontrol.int/publication/esarr-4-risk-assessment-and-mitigation-atm">https://www.eurocontrol.int/publication/esarr-4-risk-assessment-and-mitigation-atm</a> EUROCONTROL - EAM 4/GUI 1 - Explanatory Material on ESARR 4 Requirements - Edition 2.0 / 03/2005 Url : <a href="https://www.eurocontrol.int/publication/esarr-4-risk-assessment-and-mitigation-atm">https://www.eurocontrol.int/publication/esarr-4-risk-assessment-and-mitigation-atm</a> EUROCONTROL - SPEC-106 - EUROCONTROL Specification for On-Line Data Interchange (OLDI) - Edition 5.0 / 07/2020 Url : <a href="https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi">https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi</a>		
<b>Finalisation criteria:</b>	1 - The Safety argument for all changes, generated by the upgrade of the system to support Electronic Dialogue during Coordination and Transfer has been delivered by the ANSP to the NSA.		
<b>ATC17-ASP02</b>	<b>Upgrade and put into service ATC system to support the Basic procedure (specifically PAC and COD)</b>	<b>From:</b> 01/01/2013	<b>By:</b> 01/01/2022
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	When bilaterally agreed between ANSPs, upgrade and put into service ATC system to support the Basic procedure, specifically Preliminary Activation Message (PAC) and, if applicable, SSR Code Assignment Message (COD).		
<b>Supporting material(s):</b>	EUROCONTROL - System Supported Coordination (SYSCO) Implementation Guidelines - Edition 2.0 / 03/2011 EUROCONTROL - SPEC-106 - EUROCONTROL Specification for On-Line Data Interchange (OLDI) - Edition 5.0 / 07/2020 Url : <a href="https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi">https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi</a>		
<b>Finalisation criteria:</b>	1 - Ground systems have been upgraded with the functions to support Basic procedure, as identified by the individual administration from the following list: - PAC, COD. 2 - The technical file (TF) with evidences of compliance and the EC declaration of verification of systems (DoV) has been delivered to the competent National Supervisory Authority (NSA). 3 - The functions to support Basic procedure, as identified by the individual administration from the following list: - PAC, COD; have been documented and are in operational use with all partners in the applicability area.		
<b>ATC17-ASP03</b>	<b>Upgrade and put into service ATC system to support electronic dialogue procedure in Transfer of communication process</b>	<b>From:</b> 01/01/2013	<b>By:</b> 01/01/2022
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	When bilaterally agreed between ANSPs, upgrade and put into service ATC system to support electronic dialogue procedure in Transfer of communication process using OLDI.		
<b>Supporting material(s):</b>	EUROCONTROL - System Supported Coordination (SYSCO) Implementation Guidelines - Edition 2.0 / 03/2011 EUROCONTROL - SPEC-106 - EUROCONTROL Specification for On-Line Data Interchange (OLDI) - Edition 5.0 / 07/2020 Url : <a href="https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi">https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi</a>		
<b>Finalisation criteria:</b>	1 - Ground systems have been upgraded with the functions to support electronic dialogue procedure in Transfer of communication process using OLDI messages, as identified by the individual administration from the following list: - ROF, COF, TIM, HOP, MAS and SDM. 2 - The technical file (TF) with evidences of compliance and the EC declaration of verification of systems (DoV) has been delivered to the competent National Supervisory Authority (NSA). 3 - The functions to support the transfer and communication process as identified by the individual administration from the following list: - ROF, COF, TIM, HOP, MAS and SDM. have been documented and are in operational use.		
<b>ATC17-ASP04</b>	<b>Upgrade and put into service ATC system to support electronic dialogue procedure in Coordination process</b>	<b>From:</b> 01/01/2013	<b>By:</b> 01/01/2022
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	When bilaterally agreed between ANSPs, upgrade and put into service ATC system to support electronic dialogue procedure in Coordination process using OLDI.		
<b>Supporting material(s):</b>	EUROCONTROL - System Supported Coordination (SYSCO) Implementation Guidelines - Edition 2.0 / 03/2011 EUROCONTROL - SPEC-106 - EUROCONTROL Specification for On-Line Data Interchange (OLDI) - Edition 5.0 / 07/2020 Url : <a href="https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi">https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi</a>		
<b>ATM Master Plan relationship:</b>	<a href="#">[PRO-048]-ATC Procedures to implement screen to screen coordination for transfer of control conditions</a>		

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<b>Finalisation criteria:</b>	1 - Ground systems have been upgraded with the functions to support electronic dialogue procedure in Coordination process using OLDI messages, as identified by the individual administration from the following list: - RAP, RRV, CDN, ACP, RJC and SBY. 2 - The technical file (TF) with evidences of compliance and the EC declaration of verification of systems (DoV) has been delivered to the competent National Supervisory Authority (NSA). 3 - The functions to support the coordination process as identified by the individual administration from the following list: - RAP, RRV, CDN, ACP, RJC and SBY; have been documented and are in operational use with all partners in the applicability area.		
<b>ATC17-ASP05</b>	<b>Train ATC staff for applying electronic dialogue procedure</b>	<b>From:</b>	<b>By:</b>
		01/01/2013	01/01/2022
<b>Action by:</b>	<b>ANS Providers</b>		
<b>Description &amp; purpose:</b>	Train operational staff in the use of electronic dialogue procedure. The tasks to be done are as follows:  - Develop a training package (material); - Update the training plans; - Determine staff population to be trained; - Apply the training plans.		
<b>Supporting material(s):</b>	EUROCONTROL - System Supported Coordination (SYSCO) Implementation Guidelines - Edition 2.0 / 03/2011 EUROCONTROL - SPEC-106 - EUROCONTROL Specification for On-Line Data Interchange (OLDI) - Edition 5.0 / 07/2020 Url : <a href="https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi">https://www.eurocontrol.int/publication/eurocontrol-specification-line-data-interchange-oldi</a>		
<b>Finalisation criteria:</b>	1 - The training plans have been updated and a training package has been developed by the ANSP for the use of electronic dialogue procedure		