SES	Active									ECAC+
ITY-FMTP	**Common Flight Message Transfer Protocol (FMTP)**									
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 633/2007 of 7 June 2007 laying down requirements for the application of a flight message transfer protocol (FMTP) for information exchanges between flight data processing systems for the purpose of notification, coordination and transfer of flights between air traffic control units and for the purposes of civil-military coordination, in accordance with Regulation (EC) No 1032/2006 [Ref. Article 1(1)].

Regulation (EC) No 633/2007 applies to [Ref. Article 1(2)]:

a) Communication systems supporting the coordination procedures between air traffic control units using a peer-to-peer communication mechanism and providing services to general air traffic;
b) Communication systems supporting the coordination procedures between air traffic services units and controlling military units, using a peer-to-peer communication mechanism and providing services to general air traffic.

The terms used in this objective are defined in Article 2 of Regulation (EC) No 549/2004, complemented by Article 2 of Regulation (EC) No 633/2007.

This implementation objective has been amended in order to introduce the new optional conditional transitional arrangements defined in Regulation (EU) No 283/2011 of 22 March 2011.

NOTE: This SES-related implementation objective does not replace the EC legislation. It aims at facilitating the monitoring and reporting of the implementation of a common flight message transfer protocol 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 military authorities.

Applicability Area(s) & Timescale(s)

Applicability Area	All ECAC+ States		
Timescales:	**From:**	**By:**	**Applicable to:**
Entry into force of regulation	28/06/2007		Applicability Area
All EATMN systems put into service after 01/01/09	01/01/2009		Applicability Area
All EATMN systems in operation by 20/04/11		20/04/2011	Applicability Area
Transitional arrangements		31/12/2012	Applicability Area
Transitional arrangements when bilaterally agreed between ANSPs		31/12/2014	Applicability Area

References

European ATM Master Plan

OI step	-	- No OI Link -						
	Enablers -	CTE-C06						

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 633/2007 of 07 June 2007;
Regulation (EC) No 283/2011 of 22 March 2011 amending Regulation No 633/2007;
Commission Communication (OJ No 2007/C 188/03) concerning the implementation of Article 4 of Regulation (EC) No 552/2004 referring to EUROCONTROL Spec-0100 Edition No 2.0 as Community Specification.

Essential Operational Changes

Fully Dynamic and Optimised Airspace

SESAR Solution

ITY-FMTP	Common Flight Message Transfer Protocol (FMTP)

ICAO GANP - ASBUs

- none -	

Deployment Programme

- none -	

European Plan for Aviation Safety

- none -	

Operating Environments

Airport
En-Route
Network
Terminal Airspace

Stakeholder Lines of Action (SLoAs)

SloA ref.	Title	From	By
ITY-FMTP-ASP01	Upgrade and put into service communication systems to support information exchange via FMTP between FDPS(s) for the purpose of notification, coordination and transfer of the flights between ATC units		20/04/2011 31/12/2012 31/12/2014
ITY-FMTP-ASP02	Develop safety assessment for the changes		20/04/2011 31/12/2012 31/12/2014
ITY-FMTP-ASP03	Train technical staff		20/04/2011 31/12/2012 31/12/2014
ITY-FMTP-MIL01	Upgrade and put into service communication systems to support information exchange via FMTP between FDPS(s) for the purpose of notification, coordination, transfer of the flights and civil-military coordination between ATS units and controlling military units		20/04/2011 31/12/2012 31/12/2014

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

Expected Performance Benefits

Safety:	-
Capacity:	-
Operational Efficiency:	-
Cost Efficiency:	More cost efficient as X.25 maintenance costs are increasing while TCP/IP costs are lower.
Environment:	-
Security:	-

Detailed SLoA Descriptions

ITY-FMTP-ASP01	Upgrade and put into service communication systems to support information exchange via FMTP between FDPS(s) for the purpose of notification, coordination and transfer of the flights between ATC units	From: -	By: 20/04/2011 31/12/2012 31/12/2014
Action by:	**ANS Providers**		

ITY-FMTP	Common Flight Message Transfer Protocol (FMTP)

Description & purpose:	Ensure that the communication systems supporting the coordination procedures between ATC units using a peer-to-peer communication mechanism and providing services to general air traffic shall apply the flight message transfer protocol (FMTP). The tasks to be performed are as follows: - Define requirements based on relevant standards/regulations; - Upgrade communication systems to comply with defined requirements; - Verify compliance with Interoperability Regulation(s); - Integrate upgraded communication systems into the EATM Network; - Put into service upgraded communication systems. The application of FMTP shall be in accordance with the interoperability requirements specified in Annex I of Regulation (EC) No 633/2007. The verification of the systems shall be done as defined in Annex II and IV of Regulation (EC) No 633/2007.
Supporting material(s):	EUROCONTROL - Guidelines for Implementation Support (EGIS) Part 5 Communication & Navigation Specifications Chapter 13 Flight Message Transfer Protocol (FMTP) - Edition 2.0 / 12/2008 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-implementation-support-egis-flight-message-transfer-protocol EUROCONTROL - EUROCONTROL Inter Centre Test Tool (ETIC) - Version 3.2.2. / 08/2012 EUROCONTROL - SPEC-100 - EUROCONTROL Specification of Interoperability and Performance Requirements for the Flight Message Transfer Protocol (FMTP) - Edition 2.0 / 06/2007 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-interoperability-and-performance-requirements-flight-message
ATM Master Plan relationship:	[CTE-C06]-Ground ATM Data communication Network
Finalisation criteria:	1 - Communications systems have been upgraded. 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 - Upgraded communication systems have been put into service. 4 - Note: For states where Regulation (EC) No 552/2004 on the interoperability of the European Air Traffic Management network does not apply, ANSPs should apply compliance procedures as defined by their competent National Authority.

ITY-FMTP-ASP02	**Develop safety assessment for the changes**	From: -	By: 20/04/2011 31/12/2012 31/12/2014
Action by:	**ANS Providers**		
Description & purpose:	Notify the NSA of planned changes and develop safety assessments of the changes for the upgrades of communication systems which support information exchange using a peer-to-peer communication mechanism via FMTP between FDPS (s). The tasks to be performed are as follows: - Notify the NSA of planned changes; - Conduct hazard identification, risk assessment in order to define safety objectives and safety requirements mitigating the risks; - Develop safety assessment; - Deliver a safety assessment report to the NSA, if new standards are applicable or if the severity class of identified risks is 1 or 2. This safety assessment shall be based on fully validated/recognised method.		
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 - Guidelines for Implementation Support (EGIS) Part 5 Communication & Navigation Specifications Chapter 13 Flight Message Transfer Protocol (FMTP) - Edition 2.0 / 12/2008 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-implementation-support-egis-flight-message-transfer-protocol EUROCONTROL - EAM 4 - ESARR 4 - Risk Assessment and Mitigation in ATM - Edition 1.0 / 04/2001 Url : https://www.eurocontrol.int/publication/esarr-4-risk-assessment-and-mitigation-atm EUROCONTROL - SPEC-100 - EUROCONTROL Specification of Interoperability and Performance Requirements for the Flight Message Transfer Protocol (FMTP) - Edition 2.0 / 06/2007 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-interoperability-and-performance-requirements-flight-message 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 report including safety arguments for the changes has been submitted to the NSA.		

ITY-FMTP	Common Flight Message Transfer Protocol (FMTP)

ITY-FMTP-ASP03	Train technical staff	From:	By:
		-	20/04/2011 31/12/2012 31/12/2014

Action by:	ANS Providers
Description & purpose:	Train technical staff to supervise and maintain communication systems which support information exchange via FMTP between FDPS(s). 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.
Supporting material(s):	EUROCONTROL - Guidelines for Implementation Support (EGIS) Part 5 Communication & Navigation Specifications Chapter 13 Flight Message Transfer Protocol (FMTP) - Edition 2.0 / 12/2008 Url : https://www.eurocontrol.int/publication/eurocontrol-guidelines-implementation-support-egis-flight-message-transfer-protocol EUROCONTROL - SPEC-100 - EUROCONTROL Specification of Interoperability and Performance Requirements for the Flight Message Transfer Protocol (FMTP) - Edition 2.0 / 06/2007 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-interoperability-and-performance-requirements-flight-message
Finalisation criteria:	1 - The training plans have been updated and a training package has been developed by the ANSP. 2 - All concerned personnel has been trained.

ITY-FMTP-MIL01	Upgrade and put into service communication systems to support information exchange via FMTP between FDPS(s) for the purpose of notification, coordination, transfer of the flights and civil-military coordination between ATS units and controlling military units	From:	By:
		-	20/04/2011 31/12/2012 31/12/2014

Action by:	ANS Providers
Description & purpose:	Ensure that the communication systems supporting the coordination procedures between ATC units and controlling military units using a peer-to-peer communication mechanism shall apply the flight message transfer protocol (FMTP). The application of FMTP shall be in accordance with the interoperability requirements specified in Annex I of Regulation (EC) No 633/2007. The verification of the systems shall be done as defined in Annex II and IV of Regulation (EC) No 633/2007. The tasks to be done are as follows: - Define requirements based on relevant standards/regulations; - Upgrade communication systems to comply with defined requirements; - Verify compliance with Interoperability Regulation(s); - Integrate upgraded communication systems into the EATM Network; - Put into service upgraded communication systems.
Finalisation criteria:	1 - Communications systems upgraded. 2 - Demonstration of compliance with the essential requirements as laid out in Regulation (EC) No 552/2004 and relevant implementing rules delivered to the competent National Authority. 3 - Upgraded communication systems put into service.