



International Civil Aviation Organization

Air Traffic Services Route Network Task Force (ARN TF)

Fifth Meeting
(Amman, Jordan 5 - 7 February 2012)

Agenda Item 3: Review ATS Routes Network

PROPOSED AIRSPACE IMPROVEMENTS

(Presented by ICAO Paris / EUROCONTROL)

SUMMARY
<p>To identify improvements for achieving and maintaining an efficient ATS route network in the MID Region based on the airspace user needs and to develop an airspace improvements at the interface with adjacent ICAO Regions are two of the important matters in the task list of ARN TF terms of reference.</p>
<p>New ATS route network proposal made by EUROCONTROL and route re-designation harmonization proposed by Greece are contained in this working paper.</p>
<p>These proposals are presented for further discussions, considerations and refinement</p>
<p>Action by the meeting is at paragraph 3.</p>

1. INTRODUCTION

1.1 This paper includes new ATS route network proposal made by EUROCONTROL and route re-designation harmonization proposed by Greece.

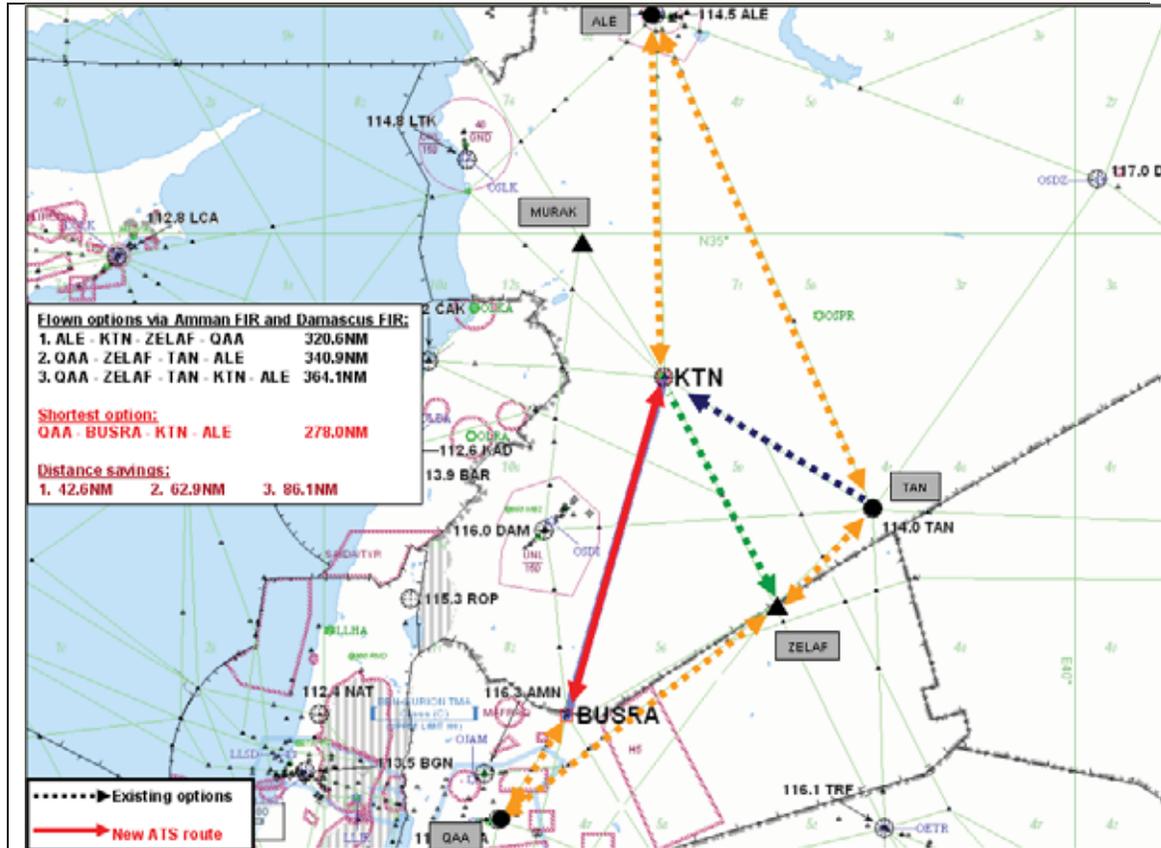
1.2 These proposals are presented for further discussions, considerations and refinement.

2. DISCUSSION

2.1 New ATS route.

Reference	Objective and Proposal	State(s) concerned
Proposal 1	<i>Objective:</i> To further improve ATS route network within Damascus FIR for flights between East/North Europe and Egypt and vice-versa.	SYR
	To implement bidirectional ATS route BUSRA - KTN .	Originator ICAO EUROCONTROL
<p>Notes:</p> <ol style="list-style-type: none"> Airspace improvement proposal made at EUROCONTROL RND SG/72 (February 2011) following the analysis of the 21 new Most Penalized City Pairs in Europe (MPCPE) contained in the second list of 50 MPCPE - Initial proposals. Analyses were based on city pair HEGN - UDD ranked on 10th place of MPCPE and UDD - HEGN ranked on 17th place. With existing ATS route network in Europe and Middle Asia regions for city pair HEGN - UDD and vice-versa with loading of daily 36 aircraft total daily route extension is 95NM / 86NM or 5.8% / 5.3% respectively. 		

4. Flights DEP/ARR HESH or Jordan from/to "U" area are also part of proposed improvements.
5. Additionally to the improvements of European ATS route network, improvements in Middle Asia region could also facilitate the flights efficiency.
6. Proposal is similar to MID/RC-062 but avoids Damascus area. KTN - DAM is longer by 9.1NM than proposed.
7. Other similar proposal could be MURAK - ALE but using B538 traffic will be concentrated over Damascus area. Option is only 0.6NM longer than proposed.



Proposal 1 - Flight Efficiency Indicators Calculation

Potential flights:	SAAM shortest ATS route assignment - 27 AUG 2011 SAT	59
Potential savings:	Daily distance saving	- 1568.14 NM
	Daily time saving	- 203.45 min
	Daily fuel saving	- 14365.3 kg
	Daily CO ₂ emission reduction	- 45110.6 kg
	Daily NO _x	- 193.91 kg

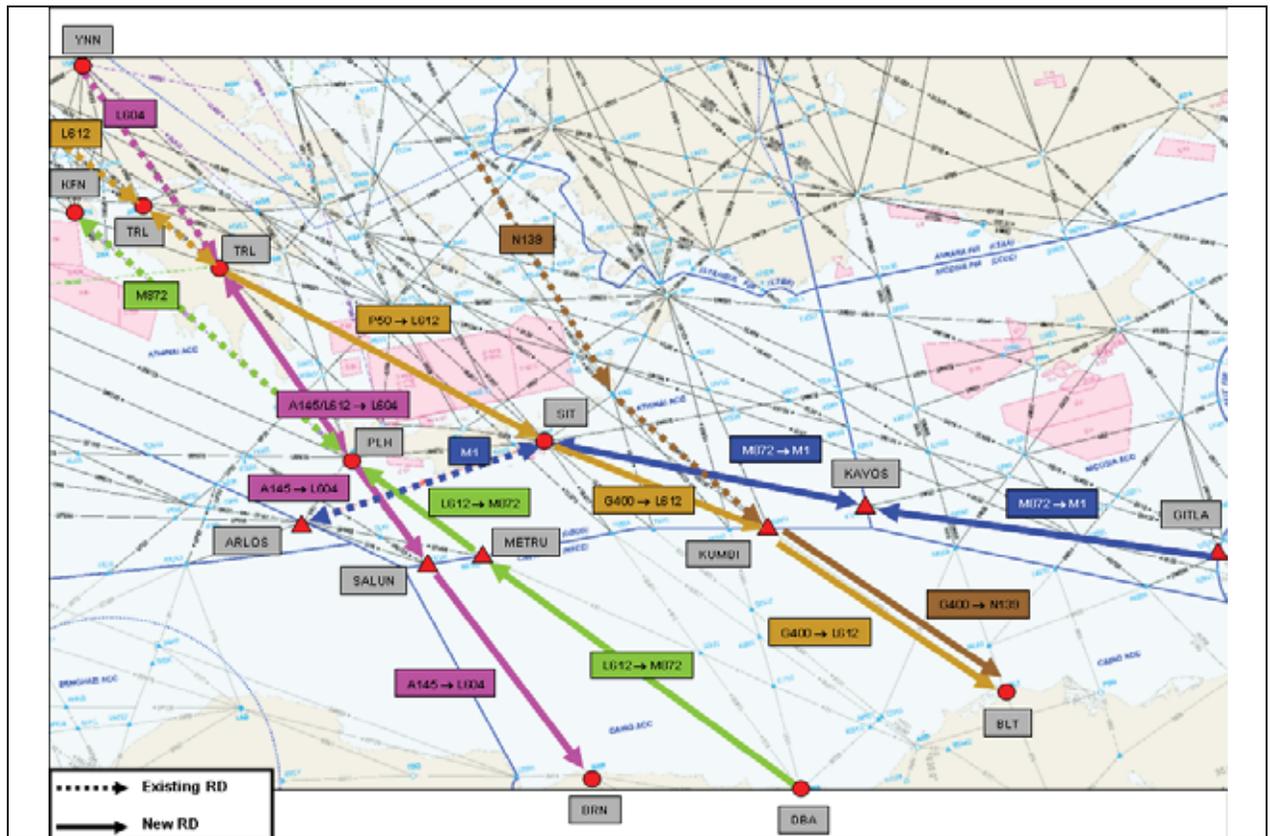


MAX city pair saving BUSRA - KTN	
HEGN - UWKD	- 53.50NM
HESH - UUDD	- 35.02NM
OJAI - UKBB	- 32.39NM

MAX city pair saving KTN - BUSRA	
UUDD - HEGN	- 33.99NM
UKBB - OJAI	- 15.19NM
ESSA - OJAM	- 9.59NM

2.2 RDs harmonisation;

Reference	Objective and Proposal	State(s) concerned
Proposal 2	<p><i>Objective:</i> To rationalize the existing ATS route designators between Greece, Cyprus and Egypt in order to further facilitate flight planning and release RDs.</p> <p>To re-designate the following existing ATS route segments:</p> <ul style="list-style-type: none"> a. A/UA145 TRL - SALUN - BRN as L/UL604; b. L/UL612 PLH - METRU - DBA as M/UM872; c. M/UM872 SIT - KAVOS - GITLA as M/UM1; d. P/UP50 TRL - SIT and G/UG400 SIT - KUMBI as L/UL612; e. G400 KUMBI - BLT as L/UL612 or N/UN139. 	GRC CYP EGY
		Originator GRC EUROCONTROL
<p><i>Notes:</i></p> <ol style="list-style-type: none"> 1. In the frame of airway rationalization and in order to reduce the number of designators within Athina FIR, the above ATS route re-designation had been proposed by Greece. 2. Proposal is currently considered by Egypt. 3. RD M/UM872 PLH - SIT will be deleted. 		



3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) consider the content of this paper; and
- b) agree for possible inclusion of the proposals in ATS Route Network Catalogue for further resolution.