



INTERNATIONAL CIVIL AVIATION ORGANIZATION

BAGHDAD FIR POST RVSM IMPLEMENTATION- SPECIAL COORDINATION MEETING (BFPRI SCM)

(Amman, Jordan, 8 – 9 February 2012)

SUMMARY OF DISCUSSIONS

1. INTRODUCTION

1.1 At the generous invitation of the Civil Aviation Regulatory Commission (CARC) of Jordan, the Baghdad FIR Post RVSM Implementation-Special Coordination Meeting (BFPRI-SCM) was held at the Kempenski Hotel, in Amman. The main objective of meeting was to review and finalize the Baghdad FIR RVSM post-implementation safety case and address the ATC coordination, communication and surveillance issues between Baghdad ACC and the neighboring ACCs.

1.2 The meeting was attended by a total of twenty five (25) participants from seven (7) States (Bahrain, Iran, Iraq, Jordan, Kuwait, Saudi Arabia and Turkey), and two (2) Organizations/Agencies (IATA and the MIDRMA). The list of participants is at **Attachment A** to the Summary of Discussions.

1.3 The meeting was opened by Capt. Diab Abu Zaid, Air Navigation Services Commissioner-CARC Jordan who welcomed all participants to Amman. He highlighted the challenges facing the civil aviation and underlined the need to work together for the benefit of safety and efficiency of the international air navigation. Capt. Abu Zaid reiterated Jordan's spirit of good will and commitment to support the coordination in the MID Region and pointed out that in the specific case of RVSM implementation within Baghdad FIR, the neighboring States which have implemented RVSM since November 2003 could support Iraq by sharing their experience.

1.4 Mr. Jehad Faqir, ICAO Deputy Regional Director, Middle East Office, welcomed the participants and thanked Jordan for hosting the BFPRI-SCM meeting and for their generous hospitality. He recalled that the Baghdad FIR RVSM Implementation Working Group (BFRI WG) has been established for the development of necessary planning materials related to RVSM implementation in Baghdad FIR and for assisting the Iraqi Civil Aviation Authority in the implementation of such an important project in an expeditious manner. Gladly, RVSM has been implemented within Baghdad FIR since 10 March 2011. Mr. Faqir highlighted that, due to the non-attendance of Iraq to the MIDRMA Board/11 meeting (Cairo, 27-29 September 2011) and the ATM/SAR/AIS SG/12 meeting (Cairo, 21-24 November 2011), the latter, through Draft Conclusion 12/4, agreed that a Special Coordination Meeting related to the Post RVSM Implementation within Baghdad FIR be organized by ICAO, in order to address the ATC coordination, communication and surveillance issues between Baghdad ACC and the neighboring ACCs and finalize the RVSM post-implementation safety case for presentation to MIDANPIRG/13.

1.5 Mr. Faqir, encouraged States to take the opportunity of this meeting to arrange for side meetings in order to coordinate on bilateral basis other subjects of interest, which are not included in the agenda of the meeting. In closing, he wished the participants a pleasant stay in Amman and a fruitful meeting.

Officers and Secretariat

1.6 Mr. Jehad Faqir, ICAO Deputy Regional Director, Middle East Office, acted as the Chairperson of the meeting. Mr. Mohamed Smaoui, Regional Officer, Air Navigation Services/Aeronautical Information Management (RO/ANS/AIM) was the Secretary of the meeting, supported by Mr. Raza Gulam, Regional Officer, Communication, Navigation and Surveillance (RO/CNS) and Mr. Saud Al Adhoobi, Regional Officer, Air Traffic Management/Search and Rescue (RO/ATM/SAR).

1.7 The meeting adopted the following Provisional Agenda:

- | | |
|----------------|--|
| Agenda Item 1: | Adoption of the Provisional Agenda |
| Agenda Item 2: | Review of the Baghdad FIR RVSM Post-Implementation Safety Report |
| Agenda Item 3: | ATC Coordination issues |
| Agenda Item 4: | Any other business |

2. DISCUSSIONS

2.1 The meeting was apprised of the concerns raised by Bahrain, Iran, Jordan and Kuwait during the Second RVSM Scrutiny Group meeting, the MIDRMA Board/11 meeting and the ATM/SAR/AIS SG/12 meeting, related to the communication problems with Baghdad ACC as well as the repetitive radar failures in Iraq, especially the Basra radar, which had a negative impact on the safety and efficiency of air navigation. It was highlighted that in many cases, the situation forced ICAA to revert back to 40NM longitudinal separation instead of the agreed 20 NM longitudinal separation. The meeting noted that similar concerns are raised also by Turkey.

2.2 The meeting recalled that, in accordance with the ICAO provisions, a post RVSM implementation Safety Report should be developed after the operational application of RVSM (approximately after 90 days of the RVSM implementation).

2.3 The meeting reviewed the Draft Report on Safety of application of RVSM in the Baghdad FIR after 90 days of use, developed by the Iraqi Civil Aviation Authority (ICAA), which was sent to ICAO on 26 September 2011. The comments made by the MIDRMA were noted and it was agreed that these comments should be taken into consideration in the development of the final version of the Post-RVSM Implementation Safety Report.

2.4 The meeting noted with sympathy and commended the enormous efforts undertaken by ICAA following the withdrawal of US from Iraq and handover the responsibility of airspace control to ICAA. Despite that, ICAA recognized the incredible amount of work to carry out and the difficulties/challenges which takes time to address, especially those related to the CNS infrastructure.. However, there are positive signs that some progress/improvement has been achieved with regard to the availability and reliability of the equipments. ICAA indicated its willingness to work towards the improvement of infrastructure to fulfill the ICAO requirements for the benefit of safety and efficiency of international air navigation. .

2.5 The meeting recognized that the difficulties faced by Iraq and the consequential restrictions on the longitudinal separation minima have a domino effect not only on the neighboring States, but also on other States i.e.: Bahrain, UAE, etc.

2.6 Taking into consideration the outcome of its discussions, the meeting agreed to the following Action Plan:

ACTION PLAN FOR THE NORMALIZATION OF THE BAGHDAD FIR

ID	ACTION	RESPONSIBLE	TARGET DATE	STATUS	Remarks
1	Nomination of RVSM Focal Point	Iraq	8 Feb. 2012	Completed	Mr. Ali Mohsin Hashim is the RVSM Focal Point. Mr Najah Ali Rahim is the Alternate
2	Nomination of Baghdad FIR RVSM Programme Manager	Iraq	8 Feb. 2012	Completed	Mr. Ali Mohsin Hashim is the Baghdad FIR RVSM Programme Manager
3	To provide an update on the promulgation of national regulations related to RVSM implementation	Iraq	15 Mar. 2012	Open	The Iraqi Civil Aviation Law was expected to be amended (before RVSM implementation) to include provisions related to RVSM implementation. An AIC has been published as advance notification to airspace users on 15 Oct 2010. Until the Iraqi Civil Aviation Law is amended, the AIP is to be used as the regulatory document. Iraq will provide the ICAO MID Office before 15 Mar 2012 an update on the progress achieved so far for the amendment of the Civil Aviation Law and the status of the aeronautical information publications related to RVSM (AIP ENR Section and the AIC).
4	Provide the MIDRMA with traffic data for the month of October 2012 for the development of the RVSM SMR 2013	Iraq	31 Dec. 2012	Open	After the implementation of RVSM within Baghdad FIR on 10 March 2011, the RVSM SMR 2013, which will be presented to MIDANPIRG/14, will cover the Baghdad FIR.

ID	ACTION	RESPONSIBLE	TARGET DATE	STATUS	Remarks
5	Submit RVSM approvals to the MIDRMA for all Iraqi registered aircraft or any airline operators certified by Iraq and to continue updating these approvals as necessary	Iraq	On monthly basis	Ongoing	Last update provided to the MIDRMA is dated Aug. 2011.
6	Submit Large Height Deviation Reports (LHD) to the MIDRMA on a monthly basis	Iraq	On Monthly basis	Ongoing	Last Altitude Deviation Report (ADR)/Coordination Failure Report (CFR) submitted to the MIDRMA is dated Dec. 2010. In accordance with the MIDRMA Board/11 Draft Conclusion 11/4 the monthly submission of LHD has replaced the monthly submission of ADRs and CFRs.
7	Update of LOA between Baghdad ACC and Tehran ACC	Iraq, Iran	Apr. 2012	Open	The LOA should have been updated before the implementation of RVSM. A draft LOA is ready for signature. Ultimately, the LOA should include the agreed Contingency Procedures between the two ACCs.
8	Update of LOA between Baghdad ACC and Amman ACC	Iraq, Jordan	Apr. 2012	Open	The LOA should have been updated before the implementation of RVSM. The current LOA needs a complete review. Ultimately, the LOA should include the agreed Contingency Procedures between the two ACCs.

ID	ACTION	RESPONSIBLE	TARGET DATE	STATUS	Remarks
9	Update of LOA between Baghdad ACC and Jeddah ACC	Iraq, Saudi Arabia	Mar. 2012	Open	The LOA should have been updated before the implementation of RVSM. The updated LOA has been already signed by Saudi Arabia. Signature of Iraq is still pending. Ultimately, the LOA should include the agreed Contingency Procedures between the two ACCs.
10	Finalize the RVSM post-implementation safety analysis	Iraq and MIDRMA	15 Mar 2012	Open	Draft Report on Safety of application of RVSM in the Baghdad FIR after 90 days of use was developed by the Iraqi Civil Aviation Authority (sent to ICAO on 26 September 2011). The comments made by the MIDRMA should be taken into consideration in the development of the final version of the Post-RVSM Implementation Safety Report, which would be presented to MIDANPIRG/13.
11	Iraq to take necessary actions for the elimination of the identified AIS deficiencies (AIRAC, QMS, WGS-84, etc)	Iraq	ASAP	Open	The need for the signature of Service Level Agreements with the data originators has been underlined.
12	To improve the efficiency and capacity of the Iraqi airspace, including the implementation of the reduced longitudinal radar separation, the ICAA to consider the implementation of an additional sector for the over-flights (FL 340 and above)	Iraq	ASAP	Open	Other operational improvements (procedure, technology) should be explored. IATA is willing to provide support.

ID	ACTION	RESPONSIBLE	TARGET DATE	STATUS	Remarks
16	Enhance the Integration of Basra and Kirkuk radars at Baghdad ACC	Iraq	Sep. 2012	Ongoing	The three radar heads (Baghdad, Basra and Kirkuk) which cover most of the Baghdad FIR except for the western part are operational. The repetitive radar failures of Basra and Kirkuk (integration of radar data into the Baghdad ACC RDPS) are due mainly to the use of old VSAT stations. Plan exists for replacing these VSATs. Iraq to consider ADS-B for surveillance improvement
17	Improve communication infrastructure	Iraq	Sep. 2012	Ongoing	Agreement signed for 14 new VSAT stations that will be supplied within 6 months and will be integrated with fiber optic.
18	Provide VHF coverage in the western part of the Baghdad FIR	Iraq	Mar. 2012	Ongoing	Work in progress at Rutba for the installation of the VHF station (the VSAT links are ready)
19	Improve the Ground-Ground (G-G) Communications with Kuwait	Iraq Kuwait	Sep. 2012	Ongoing	AFTN and Direct speech circuit operational with intermittent unavailability. A Plan for the replacement of the old VSAT with a new one to be installed in Kuwait is approved. Kuwait is to facilitate logistics.
20	Improve G-G Communications with Jordan using VSAT	Iraq Jordan	Sep. 2012	Ongoing	Dial-up speech circuit operational with intermittent unavailability. Jordan prepared the site for the installation of VSAT which will be installed in Sep 2012 Jordan to facilitate logistics

ID	ACTION	RESPONSIBLE	TARGET DATE	STATUS	Remarks
21	Improve G-G Communications with Turkey	Iraq Turkey	Jun 2012	Open	Dial-up speech circuit operational with intermittent unavailability. Difficulties in obtaining approval for the installation of VSAT (Telecom Authority in Turkey). Iraq and Turkey to coordinate with their Telecom Authorities for the implementation of a direct speech circuit.
22	Improve G-G Communications with Iran	Iraq Iran	Sep 2012	Open	VSAT and Dial-up speech circuit are operational with intermittent unavailability. Iraq and Iran to coordinate for the replacement of the old VSAT with a new one.
23	Improve G-G Communications with Saudi Arabia by performing periodic test of the existing direct speech circuits	Iraq Saudi Arabia	On monthly basis	Open	
24	Iraq to take appropriate measures for the timely implementation of the ICAO New FPL (INFPL) provisions	Iraq	15 Nov. 2012	Open	Iraq is planning to implement a new message switching system which will be capable to accept INFPL. Iraq to attend the INFPL SG*/4 meeting (Cairo, 27-29 Feb. 2012) Iraq to provide update on the level of preparedness for the implementation of the INFPL on 15 Nov. 2012.



International Civil Aviation Organization

**BAGHDAD FIR POST RVSM IMPLEMENTATION –
SPECIAL COORDINATION MEETING
(BFPRI SCM)**

(Amman, Jordan, 8 – 9 February 2012)

LIST OF PARTICIPANTS

NAME	TITLE & ADDRESS
STATES	
BAHRAIN	
Mr. Saleem Mohamed Hassan	Chief Air Traffic Management Civil Aviation Affairs P.O. Box 586 KINGDOM OF BAHRAIN Fax: (973) 17 329 966 Tel: (973) 17 321 117 Mobile: (973) 39 608 860 Email: saleemmh@caa.gov.bh
Mr. Ahmed Mohamed Ali	Air Traffic Control Supervisor Civil Aviation Affairs P.O. Box 586 KINGDOM OF BAHRAIN Fax: (973) 17 321 029 Tel: (973) 17 321 081 Mobile: (973) 39 522 696 Email: a.ali@caa.gov.bh
IRAQ	
Mr. Ahmad Ibrahim Mansour	Radio Communication Manager Baghdad International Airport Baghdad - IRAQ Mobile: (964-790) 5616 327 Email: icaa88@yahoo.com
Mr. Ali Mohsin Hashim	Director ATS Baghdad International Airport Baghdad - IRAQ Tel: (964) 813 2570 Mobile: (964) 7815 762 525 (964) 7702 997 761 Email: atc-iraqcaa@yahoo.com

NAME	TITLE & ADDRESS
Mr. Haithem Abdel Satar Mahmoud	Chief Engineer Baghdad International Airport Baghdad - IRAQ Mobile: (964-790) 1525 704 Email: haithamhh2007@yahoo.com
Mr. Najah Ali Raheem	Air Operations Manager Iraqi Civil Aviation Authority Baghdad International Airport Baghdad - IRAQ Tel: (964) 813 3195 Mobile: (964-790) 140 4310 Email: ali_najaah@yahoo.com najahali@iraqcaa.com
Mr. Thaer Ewad Kazem	Deputy CNS Manager Baghdad International Airport Baghdad - IRAQ Tel: (964) 813 2559 Mobile: (964) 790 2416 427 Email: thaer_kadhim@yahoo.com navaids@iraqcaa.com
Mr. Mark Wordley	Contract Director, Iraq ATC Project SERCO Middle East P.O. Box 9197 Dubai, UAE Fax: (971)4403 3501 Tel: (971) 44033500 Mobile: (964) 780 2041955 (971) 566 839 435 Email: mark.wordley@serco.ae
ISLAMIC REPUBLIC OF IRAN Mr. Ahmad Kaveh Firouz	Expert in Charge of ACC Training Dept Iran Airports Company Mehrabad International Airport P.O. Box 13445 Tehran - ISLAMIC REPUBLIC OF IRAN Fax: (9821) 4454 4114 Tel: (9821) 6602 4120 Mobile: (98912) 323 0447 Email: ahmadkavehfiroz@gmail.com

NAME	TITLE & ADDRESS
Mr. Javad Pashaei	Deputy Director of ATS Iran Airports Company Mehrabad International Airport P.O. Box 13445 Tehran - ISLAMIC REPUBLIC OF IRAN Fax: (9821) 4454 4102 Tel: (9821) 4454 4103 Mobile: (98912) 502 3733 Email: ja_pashaei@yahoo.com
JORDAN Mr. Nayef Irshaid Al Marshoud	Director of ATM Civil Aviation Regulatory Commission P.O. Box 7547 Amman - JORDAN Fax: (962-6) 489 1266 Tel: (962-6) 489 7729 Mobile: (962-7) 77789470 Email: datm@carc.gov.jo
Mr. Khalil Mohamed Ali Younis	Chief of Operations Civil Aviation Regulatory Commission P.O. Box 7547 Amman - JORDAN Fax: (962-6) 489 1653 Tel: (962-6) 647 9120 Mobile: (962-77) 771 5125 Email: pans_ops@carc.gov.jo
Mr. Khalaf Al-Showbki	Chief Amman TACC Civil Aviation Regulatory Commission P.O. Box 7547 Amman - JORDAN Fax: (962-6) 4451 619 Tel: (962-6) 4451 672 Mobile: (962-77) 790 4724 Email: kshowbki@yahoo.co.nz
KUWAIT Mr. Mohammed A. Al-Awadhi	ATC Superintendent Directorate General of Civil Aviation Kuwait International Airport P.O. Box 17 Safat 1300 KUWAIT Fax: (965) 2472 962 Mobile: (965) 9717 7703 Email: awadhi7177@gmail.com

NAME	TITLE & ADDRESS
Mr. Mansour F. Al-Harbi	ATC Supervisor Directorate General of Civil Aviation Kuwait International Airport P.O. Box 17 Safat 1300 KUWAIT Fax: (965) 2431 0096 Tel : (965) 2476 0463 Mobile: (965) 9973 9088 Email: atc_controler@hotmail.com
Mr. Dawood A. Mohammed	Chief of Radar Operations Salmiya P.O. Box 8221 KUWAIT Tel : (965) 2476 0347 Mobile: (965) 6633 5115 Email: david-awad@hotmail.com
SAUDI ARABIA Mr. Abdulaziz Zarra	International Relationship Coordinator Specialist General Authority of Civil Aviation (GACA) P.O. Box 929 Jeddah 21442 KINGDOM OF SAUDI ARABIA Fax: (966-2) 640 1477 Tel: (966-2) 640 5000 Mobile: (966) 504 60 9006 Email: azarra@gaca.gov.sa
Mr. Adel Mekki	ATM/Planning and Operation General Authority of Civil Aviation (GACA) Airspace Management P.O. Box 15441 Jeddah 2533 KINGDOM OF SAUDI ARABIA Fax: (966-2) 671 7717 Ext 1817 Tel: (966-2) 671 7717 Ext 1816 Mobile: (966-50) 459 1030 Email: adel_makki@yahoo.com

NAME	TITLE & ADDRESS
Mr. Belal Al-Mubark	ACC Controller General Authority of Civil Aviation (GACA) P.O. Box 6326 Jeddah 21442 KINGDOM OF SAUDI ARABIA Fax: (966-2) 685 4011 Tel: (966-2) 685 5007 Mobile: (966-50) 5925 764 Email: bulbul-25@hotmail.com
TURKEY Mr. Ayhan Oztekin	Air Traffic Manager Air Navigation Department DHMI Genel Mudurlugu Konya Yolu Etiler Ankara, TURKEY Fax: (90-312) 222 0976 Tel: (90-312) 204 2290 Mobile: (90-532) 371 8580 Email: ayhan.oztekin@dhmi.gov.tr
Mr. Cihan Sahin	Air Traffic Controller DHMI Genel Mudurlugu Konya Yolu Etiler Ankara, TURKEY Fax: (90-312) 222 0976 Tel: (90-312) 204 2501 Email: cihan.sahin@dhmi.gov.tr
ORGANIZATIONS/INDUSTRIES IATA Mr. Achim Baumann	Director SO&I IATA, MENA King Abdallah II Street P.O. Box 940587 Amman 11194, JORDAN Fax: (962-6) 593 9912 Tel: (962-6) 580 4256 Mobile: (962-79) 704 5556 Email: baumanna@iata.org

NAME	TITLE & ADDRESS
Ms. Ruby Sayyed	Assistant Director Safety, Operations & Infrastructure International Air Transport Association (IATA) King Abdallah II St., Al Shaab Roundabout P.O. Box 940587 Amman 11194 - JORDAN Fax: (962) 6 593 9921 Tel: (962) 6 580 4200 Ext. 1215 &1216 Mobile: (962) 79 9444 252 Email: SayyedR@iata.org
MIDRMA Mr. Fareed Abdullah Al Alawi	MIDRMA Manager MIDRMA Office P.O. Box 50468 KINGDOM OF BAHRAIN Fax: (973) 1732 9956 Tel: (973) 1732 9054 Mobile: (973) 3965 1596 Email: falalawi@caa.gov.bh midrma@midrma.com
Mr. Fathi Ibrahim Al-Thawadi	MIDRMA Officer MIDRMA Office P.O. Box 50468 KINGDOM OF BAHRAIN Fax: (973) 1732 9956 Tel: (973) 1732 9054 Mobile: (973) 3967 6614 Email: midrma@midrma.com