



International Civil Aviation Organization
MIDANPIRG ATM/SAR/AIS Sub-Group

Twelfth Meeting (ATM/SAR/AIS SG/12)
(Cairo, Egypt, 21 - 24 November 2011)

Agenda Item 6: SSR Code Allocation Plan (CAP) for the MID Region

IMPROVEMENT OF THE MID SSR CODE ALLOCATION SYSTEM

(Presented by the Secretariat)

SUMMARY

This paper presents progress A report related to the allocation of SSR Codes in the MID Region.

Action by the meeting is at paragraph 3.

REFERENCES

- MIDANPIRG/12 Report
- SSR CA SG/3 Report
- SSR CA SG/4 Report

1. INTRODUCTION

1.1 The first and second Surveillance Radar Codes Allocation Study Group (SSRCASG-1/2) meetings were held at the ICAO MID Regional Office in Cairo in August 2007 and March 2008 respectively.

1.2 The third Surveillance Radar Codes Allocation Study Group (SSRCA SG3) meeting was held at the ICAO MID Regional Office in Cairo in 18 - 19 April 2010 and was attended by fifteen (15) participants from four (4) States (Egypt, Saudi Arabia, Syria and UAE).

1.3 The MIDANPIRG/12 meeting, held in Amman, 17-21 October 2010 was attended by a total of seventy six (76) participants, which included experts from twelve (12) States (Bahrain, Egypt, Iraq, Iran (Islamic Republic of), Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia and U.A.E.) and four (4) International Organizations (CANSO, IATA, IFALPA and Jeppesen).

1.4 The Fourth Meeting of the Secondary Surveillance Radar Codes Allocation Study Group (SSRCA SG) was held at the ICAO Middle East Regional Office, Cairo, Egypt, 14-15 March 2011 and was attended by a total of 18 participants from six (6) States (Egypt, Lebanon, Oman, Saudi Arabia, Syria and United Arab Emirates).

2. DISCUSSION

2.1 The meeting may wish to recall that when considering the Originating Region Code Assignment Method (ORCAM), the SSRCA SG agreed in principle on three Participating Areas (PAs) for the MID Region. However, it was agreed that more data regarding, inter alia, MID Region traffic patterns and volume, Flight Data Processing Systems' (FDPS) capabilities, and requirements in adjacent ICAO Regions, was necessary in order to reach a decision on the number of the PAs and codes allocated to each PA.

2.2 The meeting may wish to note that MIDANPIRG/12 was apprised of State letter dated 28 March 2010 calling upon States to provide FDPS capabilities. In this regard, MIDANPIRG/12 further noted that ten (10) MID States replied to the FPDS questionnaire. The initial analysis of the recorded responses demonstrated a large variety of ATS capabilities.

2.2 Based on the above and from the replies received it was evident that FDPS's do not require upgrades to satisfactorily perform the functions according to the PA requirement. However, the use of directional assignment will require the upgrade of FDPS. Accordingly, the meeting urged MID States to upgrade their FDPSs to include the directional assignment capability in conjunction with the ICAO New Flight Plan format (INFPL) upgrade.

2.3 The meeting may wish recall that based on the deliberations and the knowledge gained during the INFPL Workshop 4-6 July 2010 and considering the outcome of the workshop which recognized that the INFPL implementation is massive, MIDANPIRG/12 agreed to the following Conclusion:

CONCLUSION 12/20: FDPS SSRCA REQUIRED FUNCTIONALITY

That, MID States be encouraged to consider the upgrade of their FDPSs to include the directional assignment capability in conjunction with ICAO New Flight Plan (INFPL) upgrade.

2.4 The SSR CA SG/4 meeting noted that MIDANPIRG/12 was informed that the Gulf area is an area with considerable military activity, carrier-based aircraft on high seas of a variety of warships with air defence systems. Code changes may in stressed situations be construed by air defence units as an indication of hostile intents and increase the risk of military action against civil aircraft.

2.5 The SSR CA SG/4 meeting further noted that MIDANPIRG/12 meeting urged MID States to identify and address inefficiencies in the current ORCAM structure before adopting an alternate structure in order to overcome the SSR code shortage. MIDANPIRG/12 meeting had been advised that the SSR Assignment Log for assessing SSR code shortage problems in order to provide a better documented case study had been circulated to States.

2.6 Based on the above, the SSR CA SG/4 meeting was informed that only one State sent an SSR Assignment log for assessing SSR code shortage problems as at **Appendix A** to this working paper. The data sent was not sufficient to indicate the shortage problems that the log was required to achieve. Accordingly, the SSR CA SG/4 meeting agreed that there are no SSR Code shortage problems in the MID Region.

2.7 The SSR CA SG/4 meeting was informed that MIDANPIRG/12 meeting was apprised on the proposal containing immediate short term measures to address code shortage issues as follows:

- transfer 1200 series Domestic SSR code from the Emirates and Bahrain FIR's to Jeddah FIR; and

- in coordination with EUROCONTROL consider exchanging the Tel Aviv FIR Transit SSR code series 5100 or 6400 with the SSR “D” 20 or SSR “D” 36 series of Tehran FIR *that are geographically adequately separated*. The released “T” series from Tel-Aviv FIR is to be returned to the ICAO MID Regional Office for re-allocation.

2.8 The SSR CA SG/4 meeting was further informed that MIDAPIRG/12 noted that the MID Regional Office had sent a State Letter addressing the transfer of the 1200 SSR Code series from Bahrain to Saudi Arabia. A reply from Bahrain was received objecting to the release of 1200 SSR Code series as they have been allocated to the Bahrain Defence Force (Military).

2.9 The meeting may wish to recall that Afghanistan’s accreditation and the Air Navigation Plan (ANP) have been transferred to the Asia Pacific Region (APAC) since 15 November 2008. The meeting may wish to note that Israel’s accreditation and the Air Navigation Plan (ANP) have been transferred to the European Region (EUR/NAT) since 13 January 2011. In which all references to Afghanistan and Israel are to be removed from the MID BASIC ANP and FASID, (Doc 9708).

2.10 The SSR CA SG/4 meeting noted that MIDANPIRG/12 agreed to the MID Region strategy for the allocation of SSR codes in the MID Region. Accordingly, the SSR CA SG/4 meeting had through review of the Strategy and was of the view to amend the strategy as at **Appendix B** to this working paper and agreed to the following Draft Conclusion:

Why	revised MID Strategy for the allocation of SSR Codes
What	adopt the Strategy to improve the MID SSR Code Allocation
Who	States
When	MIDANPIRG/13 Meeting

DRAFT CONCLUSION 12/X: MID STRATEGY ON SSR CODE ALLOCATION ISSUES

*That, the revised MID Region Strategy for the improvement of SSR Code Allocation System be adopted as at **Appendix B** to this working paper. (to the Report on Agenda Item 3).*

2.11 The SSR CA SG/4 meeting recalled that the SSRCA SG/3 meeting reviewed delineation of PAs and Code Allocation for the MID Region, and was unable to reach a consensus.

2.12 The SSR CA SG/4 meeting recalled that EUROCONTROL had planned to present to the SSRCA SG/3 meeting the results of the study of MID Regional traffic patterns for the month of June 2009. However, they were unable to attend the meeting due to closure of the EUR airspace. The meeting was unable to conduct full analysis of traffic volume and pattern within the MID Region; hence no decision has been taken on the establishment of PAs within MID Region.

2.13 Based on the above, the SSR CA SG/4 meeting noted that the study results of the MID Regional traffic patterns for the month of June 2009 as formulated by EUROCONTROL were sent to the ICAO MID Regional Office with the following recommendations:-

- a) the results of the study does not require an immediate split to the MID PA into multiple ones for the short and medium term;

- b) should there be a need to split the MID PA arise for the medium and long term then a not more than two PA systems should be implemented; and
- c) the recommended PA should be as in option 1 from the options presented during the SSRCA SG/3 meeting provided that coordination procedures be established between the Emirates, Muscat and Tehran FIR's for ATS route A791 for traffic proceeding Eastbound only from (IMLOT – JI) and R462 (DENDA – JI) in order for Tehran to retain the SSR Codes that have been assigned by the Emirates and Muscat FIR's on the traffic specified on these routes until such traffic has crossed the Tehran (FIR) boundary and entered the Karachi (FIR), this is to avoid loss of traffic Identity and enhance safety and efficiency.

2.14 Based on the above study results, the meeting was of the view that there is no need to split the MID Region into three Participating Areas (PAs); and accordingly the meeting agreed to the following Draft Conclusion:

Why	To adopt a single Participating Area (PA) for the MID Region
What	The results of study does not justify multiple Pas for the MID Region
Who	ICAO and States
When	MIDANPIRG/13 Meeting

DRAFT CONCLUSION 12/X: STRATEGY ON SSR CODE ALLOCATION ISSUES

That;

- a) *the result of the study conducted by the ICAO MID Regional Office and EUROCONTROL showed that there is no justification for an immediate spilt of the MID SSR Participating Area (PA) into multiple PA's for the short and medium term;*
- b) *MID States adopt a single PA to the Originating Region Code Assignment Method (ORCAM); and*
- c) *expedite the implementation of Mode S and/or ADS-B Surveillance to cater for the SSRCA long term measures for MID Region SSR code allocation*

3. ACTION BY THE MEETING

The meeting is invited to:

- a) note: the information presented in this paper and its **Appendices**; and
- b) endorse Draft Conclusions in 2.10, and 2.14

SSR Assignment Log - FIR

Date	ATD/ATO	SSR entry time	Callsign	ADEP	ADES	Next FIR	Next+1 FIR	SSR	Remark
26/10/10		8:00	UAE782	DNMM	OMDB			2751	
		0:00	BPA3109	HKMO	LIMC			2744	
		11:23	CRL888	FMEE	LFML			2754	
		1:23	ISS2844	LIRF	FIMP			2340	
		23:45	SWR293	HKJK	LSZH			2364	
		23:14	DLH591	HSSS	EDDF			2774	
		23:05	DLH599	HAAB	EDDF			2746	
		21:00	KLM543	HAAB	EHAM			2743	
		2:59	DAH8058	DABC	OEJN			2755	
		9:00	DAH8060	DAAG	OEJN			2347	
		0:32	THY677	HAAB	LTBA			2754	
		2:14	THY608	HKJK	LTBA			2360	
		23:57	ETH710	HAAB	EGLL			2744	
		0:16	ETH3712	HAAB	HECA			1750	
		0:40	ETH701	EGLL	HAAB			2346	
		2:06	ETH503	LIRF	HAAB			2352	
		2:00	ETH3716	HAAB	HECA			1673	
		9:20	ETH706	HAAB	EDDF			2760	
		1:39	ETH702	HAAB	LIRF			2775	
		7:22	HLR406	HSSS	HELX			2202	
		0:12	KQA102	HKJK	EGLL			2752	
		23:30	KQA112	HKJK	LFPG			2363	
		3:19	KQA320	HSSS	HECA			2300	
		8:25	KQA116	HKJK	EMAM			2300	
		9:31	LSS202	HLLT	HECA			1670	
		1:45	MSR3001	DGAA	OEMA			2773	
		3:45	MSR848	GMMN	HECA			1622	
		12:08	MSR830	HLLT	HECA			1622	
		10:20	MSR836	HLLB	HECA			4042	
		7:08	MSR3119	GUCY	OEMA			2357	
		17:54	MSR856	HSSS	HECA			2271	

SSR Assignment Log - FIR

		14:09	MON3693	HKMO	HELX			3305	
		2:14	MSR840	FAJS	HECA			1634	
		1:36	MSR834	HHAS	HECA			1651	
		2:49	MSR854	HSSS	HECA			2145	
		8:45	TFL462	HKMO	HEGN			3322	
		11:05	NOS121	HKMO	HELX			3317	
		0:12	THY41	FAJS	LTBA			2365	
		2:57	BMA996	HSSS	OLBA			2367	
		0:21	SMJ597F	HSSS	EBLG			2350	
		0:41	RJA711	HSSS	OJAI			2354	
		23:43	AFR3579	FMEE	LFPO			3313	
		0:20	UAE782	DNMM	OMDB			2760	
		0:44	BAW47	EGLL	HTDA			2357	
		0:00	ETH705	LFPG	HAAB			2745	
		0:27	REU772	FMEE	LFPG			2347	
		22:00	TAR5001	DTTA	OEMA			2360	
		23:28	SVA376	GMMN	OEJN			2367	
		21:55	LBT4172	DTMB	OEJN			2750	
		22:30	QTR553	HLLT	OTBD			2353	
		21:50	LAA272	HLLT	OMDB			2777	
		23:23	MSR844	DTTA	HECA			1626	
		23:57	ETH702	HAAB	LIRF			2762	
		0:11	MEA572	DNKN	OLBA			2361	
		0:26	DAH8070	DAAG	OEJN			2343	
		16:45	MSR879	HECA	DNKN			2721	
		0:03	RAM1016	GMMX	OEMA			2377	
		1:25	MAU34	FIMP	LFPG			2350	
		0:30	GRL888	LFBO	FMEE			2776	
		17:28	QTR595	DNMM	OTBD			2375	
		16:27	QTR567	DAAG	OTBD			2341	
		16:30	DAH8062	DAAG	OEJN			2356	
		17:31	MSR754	LEMD	HECA			1624	
		17:10	UAE784	DNMM	OMDB			2775	

SSR Assignment Log - FIR

		17:47	ISS2845	FIMP	LIRF			2763	
		16:00	KNE8005	GOOY	OEMA			2757	
		16:05	RAM1614	GMMX	OEJN			2761	
		12:34	LBT4246	DTTJ	OEJN			2361	
		13:30	LAA284	HLLB	OJAI			2753	
		11:30	GRL888	FMEE	LFML			2745	
		16:59	MSR876	DNMM	HECA			1640	
		19:20	MSR3003	DGAA	OEMA			2751	
		22:05	TAR5001	DTTA	OEMA			2360	
		22:45	REU975	FMEE	LFPG			2362	
		20:00	MAC503	GMMN	HEBA			3336	
		22:55	CRL958	LFLL	FIMP			2372	
		22:10	UAE788	DGAA	OMDB			2366	
		23:32	UAE798	GOOY	OMDB			2370	
		0:27	REU772	FMEE	LFPG			2347	
		1:52	AAW411	HSSS	HLLT			2342	
		16:37	SUD102	HSSS	HECA			2265	
		10:39	MSR858	HSSS	HECA			2231	
		11:33	JDI10A	HKJK	EPWA			2762	
		11:36	RAM272	GMMN	HECA			1647	
27/10/10		19:46	SNR403	HSSS	HECA			2554	
		0:15	SMJ597F	HSSS	EBLG			2350	
		3:18	SOO8776	HKJK	EHAM			2355	
		8:36	NGL2165	DRRN	OEJN			2346	
		14:27	BPA3259	HKMO	LIPE			2356	
		11:45	SVA5321	GMAD	OEMA			2360	
		23:59	SWR293	HKJK	LSZH			2360	
		22:20	SVA372	GMMN	OEJN			2367	
		21:34	TAR713	DTTA	OEJN			2345	
		10:15	MSX501	HKJK	HECA			1625	
		14:31	MEA572	DNMM	OLBA			2365	
		15:59	RB6610	HSSS	HEBA			2543	

SSR Assignment Log - FIR

		17:23	SVA5375	DABB	OEMA			2343	
		0:39	RJA711	HSSS	OJAI			2354	
		16:52	SUD102	HSSS	HECA			2537	
		4:12	SUD150	HSSS	OJAI			2374	
		20:22	CRL976	LFLL	FMEE			2741	
		5:20	MPH088	HKJK	EHAM			2763	
		22:49	PMH084	HKJK	EHAM			2777	
		21:28	JAV7253	DGAA	OLBA			2340	
		14:32	KNE8007	GOOY	OEMA			2752	
		17:02	CFG763	EDDF	FMMI			2765	
		10:13	CFG265	HKMO	EDDF			2367	
		12:38	LBT4318	DTMB	OEJN			2755	
		11:48	LBT4248	DTTJ	OEJN			2743	
		16:24	QTR593	DNMM	OTBD			2753	
		15:52	QTR551	HLLT	OTBD			2770	
		16:14	QTR567	DAAG	OTBD			2376	
		17:14	UAE142	LEMD	OMDB			2761	
		17:52	UAE784	DNMM	OMDB			2363	
		13:56	UAE262	SBGR	OMDB			2347	
		23:47	UAE798	GOOY	OMDB			2774	
		23:44	AFR3580	LFPO	FMEE			2762	
		23:43	AFR3579	FMEE	LFPO			2372	
		11:09	AFR3593	FIMP	LFPG			2747	
		8:29	LAA260	OLLM	OEMA			2351	
		18:39	LAA202	HLLT	HECA			1672	
		18:12	LAA274	HLLB	OMDB			2366	
		20:21	LAA262	HLLM	OEMA			2350	
		6:39	LAA208	HLLB	OEAX			2325	
		1:13	REU772	FMEE	LFPG			2347	
		2:04	REU945	FMEE	LFML			2376	
		21:10	REU974	LFPG	FMEE			2740	
		18:48	REU946	LFML	FMEE			2374	
		6:44	5AUAB	HLLM	HSSS			2741	

SSR Assignment Log - FIR

		23:27	THY602	HUEN	LTBA			2747	
		0:26	THY681	HSSS	LTBA			2770	
		0:21	THY41	FAJS	LTBA			2365	
		0:29	THY677	HAAB	LTBA			2365	
		23:33	ETH704	HAAB	LFPG			2750	
		22:45	ETH452	HSSS	HECA			2600	
		0:12	ETH500	HAAB	LIRF			2351	
		2:28	ETH503	LIRF	HAAB			2375	
		1:51	ETH703	LIRF	HAAB			3317	
		1:56	ETH707	EDDF	HAAB			2506	
		0:48	ETH3712	HAAB	HECA			1750	
		0:56	ETH710	HAAB	EGLL			2744	
		0:45	ETH702	HAAB	LIRF			2762	
		0:56	ETH705	LFPG	HAAB			2745	
		5:23	ETH3714	HAAB	HECA			1772	
		15:43	DAH8072	DABC	OEJN			2754	
		17:28	DAH8076	DAAG	OEJN			2742	
		12:47	DAH4038	DAAG	HECA			1654	
		20:58	DAH8078	DAOO	OEJN			2341	
		8:27	AAW650	HLLT	OMDB			2345	
		9:56	AAW430	HLLT	HECA			1673	
		21:24	RAM256	GMMN	HECA			1651	
		22:22	RAM250	GMMN	OEJN			4436	
		0:03	RAM1016	GMMX	OEMA			2377	
		22:27	KLM562	HUEN	EHAM			2766	
		22:30	KLM566	HKJK	EHAM			2756	
		12:31	KLM565	EHAM	HKJK			2353	
		17:39	DLH590	EDDF	HSSS			2375	
		22:43	DLH591	HSSS	EDDF			2751	
		12:41	DLH598	EDDF	HAAB			2774	
		19:07	MAU45	LFPG	FIMP			2757	
		2:04	MAU34	FIMP	LFPG			2757	
		13:26	MAU46	FIMP	EGLL			2742	

SSR Assignment Log - FIR

		18:59	KQA320	HSSS	HECA			2566	
		23:20	KQA117	EHAM	HKJK			2773	
		23:30	KQA102	HKJK	EGLL			2752	
		7:58	KQA116	HKJK	EHAM			2756	
		12:48	KQA113	LFPG	HKJK			2370	
		10:14	EGY1932	H SOB	HECA			3317	
		18:35	MSR860	HSSS	HECA			2562	
		18:39	MSR754	LEMD	HECA			1641	
		16:55	MSR855	AFIL	HESN			3327	
		14:07	MSR858	HSSS	HECA			2532	
		15:09	MSR846	DAAG	HECA			1645	
		21:47	MSR856	HSSS	HECA			2577	
		3:30	MSR852	HAAB	HECA			1674	
		3:40	MSR878	DNAA	HECA			1611	
		3:40	MSR3121	GUCY	OEMA			2757	
		3:34	MSR854	HSSS	HECA			2366	
		3:15	MSR882	DGAA	HECA			1677	
		4:24	MSR838	HUEN	HECA			1646	
		12:15	MSR836	HLLB	HECA			1643	
		13:39	MSR3005	DGAA	OEMA			2746	
		7:20	MSR842	HTDA	HECA			1636	
28/10/10		3:05	RJA711	HSSS	OJAI			2761	
		3:00	BMA914	HAAB	OJAI			2371	
		0:08	KLM569	HTDA	EHAM			2743	
		0:14	GEC8297	HKJK	EDDF			2755	
		0:10	BEL453	HKJK	EBBR			2746	
		7:16	TAR813	DTTA	HECA			1665	
		1:00	MAU57	EGLL	FIMP			2752	
		2:40	THY608	HKJK	LTBA			2742	
		0:33	THY681	HSSS	LTBA			2361	
		5:09	RAM1018	GMFO	OEMA			2374	
		4:06	RAM1310	GQNN	OEMA			2757	

SSR Assignment Log - FIR

		0:01	SWR293	HKJK	LSZH			2360	
		0:10	SYR396	HSSS	OSDI			2767	
		4:43	SVA5417	GMAD	OEMA			2363	
		0:15	SVA5357	DAUU	OEMA			2377	
		0:00	DAH8082	DABC	OEJN			2356	
		20:10	CRL902	LFPO	FMEE			2773	
		0:30	KLM566	HKJK	EHAM			2766	
		21:13	KLM543	HAAB	EHAM			2750	
		23:44	AFR3579	HAAB	LFPO			3326	
		22:38	AFR3580	LFPO	FMEE			2372	
		23:45	UAE798	GOOY	OMDB			2774	
		23:40	UAE782	DNMM	OMDB			2347	
		1:00	MAV34	FIMP	LFPG			2770	
		4:14	UAE9952	HKJK	EHAM			2753	
		21:14	UAE788	DGAA	OMDB			2777	
		2:05	ETH703	LIRF	HAAB			2362	
		23:26	ETH710	HAAB	EGLL			2362	
		0:20	ETH702	HAAB	LIRF			2370	
		21:44	ETH500	HAAB	LIRF			2756	
		21:03	ETH3716	HAAB	HECA			1676	
		1:50	REU771	LFPG	FMEE			2376	
		21:36	REU974	LFPG	FMEE			2762	
		21:35	REU975	FMEE	LFEG			2747	
		11:15	LAA282	HLLT	OJAI			4005	
		1:30	MSR834	HHAS	HECA			1643	
		1:40	MSR840	FAJS	HECA			1616	
		3:00	MSR854	HSSS	HECA			1663	
		3:00	MSR882	DGAA	HECA			1654	
		3:00	MSR852	HAAB	HECA			1613	
		0:01	MSR3123	GVCY	OEMA			2760	
		4:30	MSR3007	DGAA	OEMA			2344	
		1:30	MSR834	HHAS	HECA			1643	
		11:19	MSR836	HLLB	HECA			4043	

SSR Assignment Log - FIR

29/10/10		0:50	NGL2169	DRRN	OEJN			2774
		1:26	QNK1307	DNSO	OEJN			2366
		15:07	MPH087	EHAM	HSSS			2356
		11:56	SUD102	HSSS	HECA			3224
		19:10	IWD9147	LEMD	HESN			3326
		10:56	RBG618	HSSS	HEBA			3156
		0:09	VPBEK	DNAA	LCLK			2755
		16:00	QTR567	DAAG	OTBD			2746
		3:37	RJA711	HSSS	OJAI			2741
		2:59	BMA996	HSSS	OLBA			2374
		0:15	CRL911	FMEE	LFPO			2776
		23:36	ETD610	GMMN	OMAA			2760
		22:25	N774XJ	GMMX	HECA			1607
		22:07	QTR553	HLLT	OTBD			2344
		3:08	MEA572	DIAP	OLBA			2346
		20:48	AAW410	HLLT	HSSS			2346
		16:11	LAA210	HLLT	HEAX			3333
		18:49	VSJ697	HAAB	HECA			3324
		20:08	JAV7253	DGAA	OLBA			2374
		20:15	JYRYA	HLGD	OJAM			2775
		15:15	LBT4122	DTMB	OEJN			2770
		19:49	REU972	LFLL	FMEE			2763
		21:38	REU974	LFPG	FMEE			2351
		15:11	RAM1022	GMFF	OEMA			2754
		15:22	RAM272	GMMN	HECA			1640
		20:49	RAM1642	GMMN	OEJN			2361
		20:44	LAA262	HLLB	OEMA			2352
		23:28	LAA272	HLLT	OMDB			2744
		23:30	DAH8106	DAAG	OEJN			4252
		1:05	DAH8094	DAAG	OEJN			2765
		6:15	DAH8096	DABC	OEJN			2350
		0:32	THY41	FAJS	LTBA			2357

SSR Assignment Log - FIR

		0:49	THY681	HSSS	LTBA			2362	
		3:48	THY608	HKJK	LTBA			2361	
		8:18	KQA116	HKJK	EHAM			2764	
		18:40	KQA320	HSSS	HECA			7136	
		17:58	MSR860	HSSS	HECA			1275	
		20:00	MSR3125	GUCY	OEMA			2742	
		23:14	MSR844	DTTA	HECA			1665	
		2:21	MSR840	FAJS	HECA			1624	
		10:27	MSR858	HSSS	HECA			3145	
		17:59	MSR3127	GUCY	OEMA			2343	
		4:35	MSR838	HUEN	HECA			1632	
		7:13	MSR842	HTDA	HECA			1630	
		3:24	MSR882	DGAA	HECA			1637	
		17:04	MSR876	DNMM	HECA			1663	
		18:05	MSR856	HSSS	HECA			7115	
		3:18	MSR854	HSSS	HECA			2053	
		18:23	MSR754	LEMD	HECA			1630	
		3:19	MSR848	GMMN	HECA			1666	
		21:42	MSR832	HLLT	HECA			1664	
		0:07	ETH702	HAAB	LIRF			2360	
		10:16	ETH704	HAAB	LFPG			2747	
		0:02	ETH705	LFPG	HAAB			2752	
		0:20	ETH710	HAAB	EGLL			2370	
		2:26	ETH3710	HAAB	HECA			1540	
		1:20	ETH3716	HAAB	HECA			1140	
		3:15	ETH503	LIRF	HAAB			2753	
		21:53	ETH500	HAAB	LIRF			2350	
		20:52	MAU53	EGLL	FIMP			2341	
		0:38	MAU42	FIMP	EGLL			2770	
		10:43	MAU48	FIMP	EDDF			2365	
		19:24	AFR3588	LFPO	FMEE			2363	
		18:47	AFR3592	LFPG	FIMP			2354	
		10:47	AFR3593	FIMP	LFPG			2777	

SSR Assignment Log - FIR

		22:13	SVA370	GMMN	OEJN			2771	
		21:45	SVA5553	DAAG	OEMA			2362	
		3:14	SVA020	KJFG	OEJN			2757	
		7:17	SVA5551	DAAG	OEMA			2364	
		15:21	TAR5017	DTTA	OEMA			2743	
		2:06	TAR5013	DTTA	OEMA			2363	
		5:43	TAR5015	DTTZ	OEMA			2775	
		23:41	UAE142	LEMD	OMDB			2356	
		22:05	UAE788	DGAA	OMDB			2353	
		18:00	UAE752	GMMN	OMDB			2765	
		0:19	UAE782	DNMM	OMDB			2743	
		17:50	UAE784	DNMM	OMDB			2376	
		15:19	UAE748	DTTA	OMDB			6166	
		16:00	LBT4254	DTTJ	OEJN			2745	
		20:47	DAH8102	DAOO	OEJN			2755	
30/10/10		14:35	ADB380F	HSSS	EDDP			2337	
		18:50	CRL910	LFPO	FMEE			2370	
		19:10	KHH100	HSSS	HECA			1660	
		19:38	REU946	LFML	FMEE			2745	
		8:22	AAW650	HLLT	OMDB			2773	
		8:14	VIZ2373	HDAM	LTBU			2361	
		8:45	KQA116	HKJK	EHAM			2757	
		10:01	DAH8108	DABB	OEJN			2746	
		12:39	DLH598	EDDF	HAAB			2742	
		2:50	MSR848	GMMN	HECA			1672	
		10:13	MSR858	HSSS	HECA			1604	
		18:35	MSR856	HSSS	HECA			1675	
		11:55	MSR830	HLLT	HECA			1602	
		12:41	MSR3129	GUCU	OEMA			1241	
		14:17	MSR846	DAAG	HECA			1661	
		10:40	MSR836	HLLB	HECA			1615	
		19:46	MEA572	DIAP	OLBA			2357	

SSR Assignment Log - FIR

		10:15	AFR3593	FIMP	LFPG			2743	
		18:07	AFR3592	LFPG	FIMP			2774	
		11:10	AFR3589	FMEE	LFPO			2754	
		13:00	MAU5034	FIMP	LFPG			2364	
		12:45	MAU46	FIMP	EGLL			2351	
		12:50	SUR403	HSSS	HECA			3321	
		17:52	UAE784	DENMM	OMDB			2347	
		16:38	SVA150	HSSS	OJAE			2372	
		12:34	RAM1024	GMMN	OEJN			2762	
		10:22	VPBGS	HLLM	HECA			1642	
		16:20	SVA104	HSPN	HECA			1634	
		11:27	CFG265	HKMO	EDDF			2745	
		17:17	CFG314	EDDF	FIMP			2754	
		12:12	LAA284	HLLB	OJAI			2362	
		9:47	LAA202	HLLT	HECA			1620	
		13:11	KLM543	EHAM	HSSS			2764	
		12:36	QTR084	KJFK	OTBD			2740	
		12:45	QTR66	LEBL	OTBD			2353	
		13:04	SAV5657	DAAG	OEMA			23252	
		8:30	SVA561	GMME	OEMA			2740	
		11:55	SVA5681	DANC	OEMA			2763	
		11:36	RJA6671	HUEN	OJAM			2772	
		12:55	ETD612	GMMN	OMAA			2767	
		15:00	KNE8013	GOOU	OEMA			2365	
31/10/10		3:26	MSR852	HAAB	HECA			1607	
		2:31	MSR840	FAJS	HECA			1665	
		2:59	MSR854	HSSS	HECA			3520	
		2:00	ETH710	HAAB	EGLL			2770	
		23:37	ETH704	HAAB	LFPG			2353	
		2:22	ETH703	LIRF	HAAB			2745	
		0:04	ETH705	LFPG	HAAB			2766	
		23:53	ETH702	HAAB	LIRF			2752	

SSR Assignment Log - FIR

		2:30	UAE9952	HKJK	EHAM			2354	
		3:07	BMA514	HAAB	OJAI			2753	
		2:24	HBJSI	FIMP	LSGG			2761	
		15:56	RAM258	GMMN	HECA			1676	
		23:45	KQA117	EHAM	HKJK			2772	
		23:40	REU975	FMEE	LFPG			23545	
		23:57	REU945	FMEE	LFML			2343	
		16:00	DAH8118	DABB	OEJN			2342	
		16:07	QTR551	HLLT	OTBD			2377	
		16:10	UAE048	DTTA	OMDB			2360	
		16:25	QTR567	DAAG	OTBD			2353	
		16:01	RJA146	HLLT	OJAI			2366	
		15:38	RJA110	LEMD	OJAI			2755	
		13:08	ETH501	LIRF	HAAB			2341	
		7:17	MSR842	HTDA	HECA			1610	
		19:56	TAR5035	DTTX	OEJN			2340	
		18:30	MSR856	HSSS	HECA			3664	
		18:54	SUD102	HSSS	HECA			3663	
		19:03	KQD320	HSSS	HECA			3671	
		19:23	MAU45	LFPG	FIMP			2741	
		19:23	AFR3592	LFPG	FIMP			2745	
		22:00	CRL910	LFPO	FMEE			2362	
		22:11	ETH500	HAAB	LIRF			2757	
		23:22	SVW28AF	FSIA	HESN			3322	
		22:37	UAE788	DEAA	OMDB			2371	
		21:34	ISS3810	LIMC	FIMP			2370	
		23:53	ETH702	HAAB	LIRF			2753	
		15:31	N23M	LFJR	OMDB			2750	
1/11/10		1:35	THY41	FAJS	LTBA			2764	
		0:30	AFR3580	LFPO	FMEE			2767	
		2:36	ETH703	LIRF	HAAB			2755	
		6:34	N137WR	FTTJ	HECA			1614	

SSR Assignment Log - FIR

		23:20	ETH704	HAAB	LFPG			2340	
		23:29	REU975	FMEE	LFPG			2347	
		0:35	CRL957	FIMP	LFML			2757	
		23:00	UAE788	DGAA	OMDB			2754	
		20:00	DAH8130	DA00	OEJN			2365	
		20:10	LAA262	HLLB	OEMA			2751	
		22:39	AAW652	HLLT	OMDB			2741	
		1:30	RAM250	GMMN	OEJN			2374	
		22:30	MSR832	HLLT	HECA			1606	
		22:40	TAR5009	DTTJ	OEMA			2375	
		23:00	SVA378	GMMN	OERK			2771	
		23:00	LAA210	HLLT	HEAX			3324	
		23:00	DLH599	HAAB	EDDF			2370	
		22:45	TFL462	HKMO	HEGN			3312	
		23:57	ETH702	HAAB	LIRF			2357	
		16:12	SUD102	HSSS	HECA			4121	
		16:54	MEA4078	HSSS	LFLX			2762	
		16:04	AMV1651	LEVG	HELX			1622	
		15:45	KNE8017	GOOY	OEMA			2740	
		11:16	AFR3593	FIMP	LFPG			2370	
		16:12	AFR6864	DNMM	HECA			1662	
		16:05	MSR876	DNMM	HECA			1650	
		17:48	MSR856	HSSS	HECA			4133	
		17:17	UAE784	DNMM	OMDB			2367	
		4:00	RJA711	HSSS	OJAI			2374	
		0:45	UAE798	GOOY	OMDB			2775	
		0:00	ETH702	HAAB	LIRF			2754	
		0:40	UAE782	DNMM	OMDB			2747	
		0:23	CRL956	LFML	FIMP			2346	
		0:01	KQA117	EHAM	HKJK			2772	
		3:50	MSR878	DNAA	HECA			1627	
		5:00	MAU7034	FIMP	LFPG			2342	
		3:00	MSR854	HSSS	HECA			3737	

SSR Assignment Log - FIR

		0:30	AFR3580	LFPO	FMEE			2767	

APPENDIX B

REVISED MID STRATEGY FOR SSR CODE ALLOCATION ISSUES

1) Medium Term Until 2020

- a) transmission of EST and ABI be deferred until necessary – and no more than 30 minutes prior to ETO for the applicable COP;
- b) “Super-domestic” code allocation be introduced through bilateral measures (LOAs) where necessary to make use of Domestic codes to supplement Transit codes;
- c) codes be assigned in a manner ensuring earliest availability, hereunder direction-of-flight dependent assignment, rather than using cycling in numerical order;
- d) the MID Region adopt the approach of “code sharing” between FIRs that are geographically adequately disparate and where directional assignment of SSR codes makes “code sharing” practical;
- e) the MID Region consider multiple ORCAM Participating Areas (PA); the number of PAs to be optimized based on studies of Regional traffic patterns and volume data, as well as coordination with adjacent ICAO Regions
- f) the ICAO MID Regional Office take action to obtain necessary data and documentation from States and other ICAO Regions for the Study Group to reach firm conclusions; and
- g) in order to facilitate an effective analysis of the traffic statistics required for decision on PAs, MID FIRs provide traffic data in accordance with the format provided by the MID Regional Office.

2) Long Term

- a) States implement Mode S surveillance systems making use of the 24-bit address code capability of aircraft transponders;
- b) States consider implementation of ADS-B surveillance systems with 24-bit address code capability; and
- c) the MID FASID be updated with a view to implement use of 24-bit address codes in ATC systems to the widest extent possible.
- d) consider the setup of a centralized SSR Code Allocation System

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