AFI SSR CODE ALLOCATION AND ASSIGNMENT REVEIEW ASCAAR PROJECT 3 - WORKSHOP

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27- 01-2020 NAIROBI, KENYA

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OUTLINE

INTRODUCTION

APIRG ORGANIZATION

AAO SG

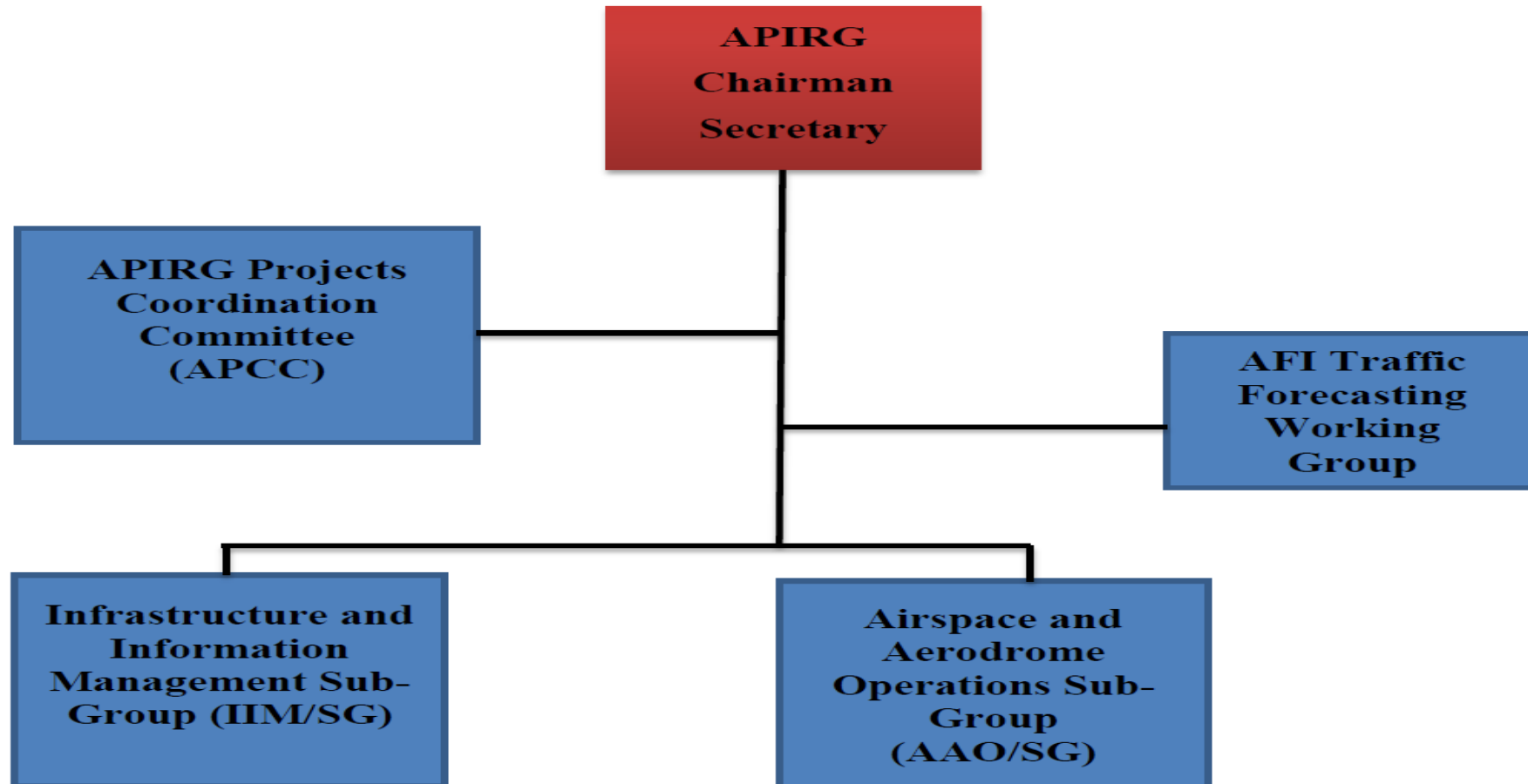**AFI SSR CODE ALLOCATION AND ASSIGNMENT REVIEW (ASCAAR)**
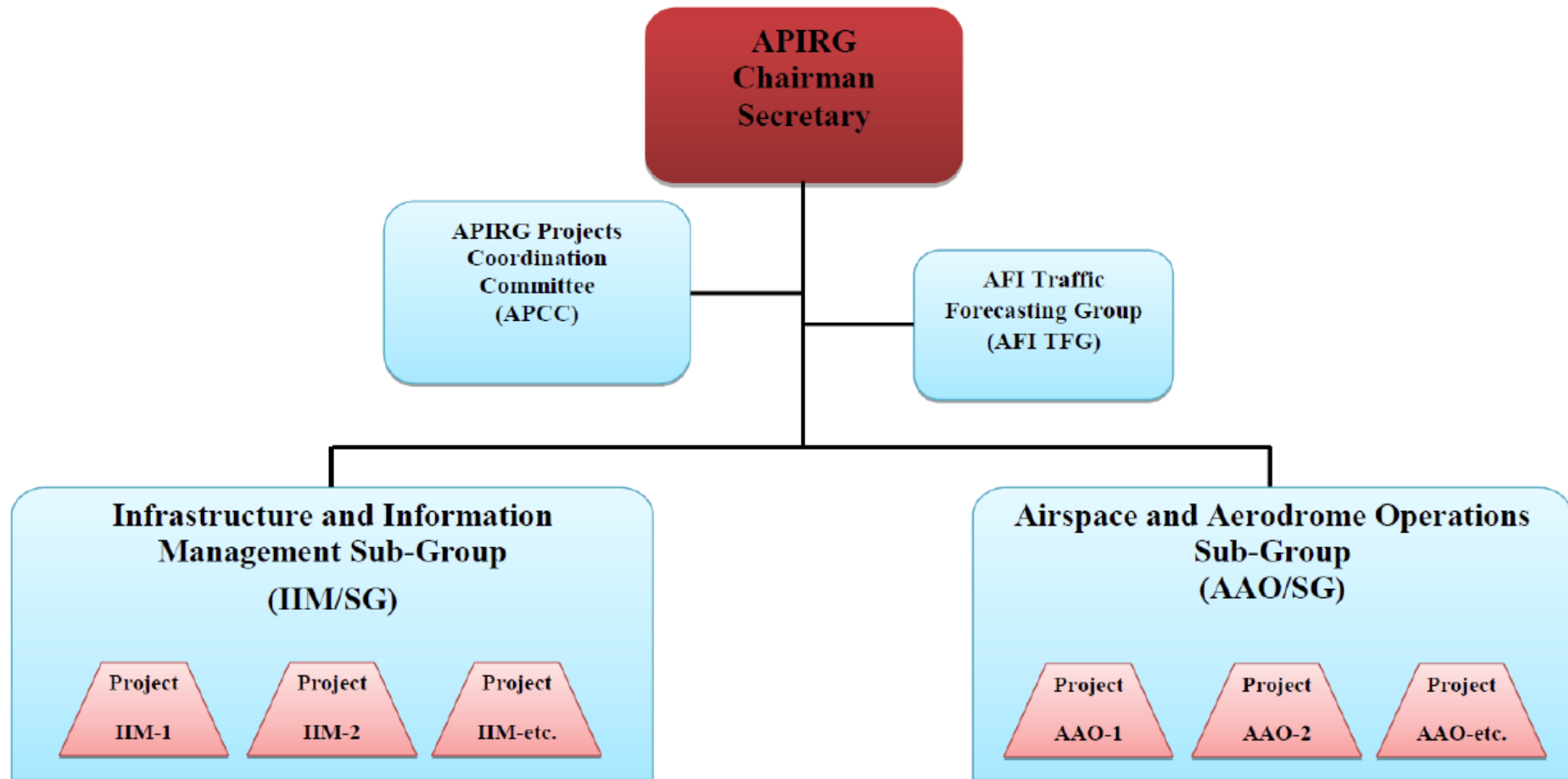
AAO SG

INTRODUCTION

➤ **The AFI Planning and Implementation Regional Group (APIRG) was set up by the Council of ICAO, in 1980, as recommended by the Sixth AFI Regional Air Navigation Meeting (AFI/6), 1979**

➤ **The APIRG is primarily responsible for the development and maintenance of the AFI Air Navigation Plan (ANP, ICAO Doc 7474), as well as the identification and resolution of air navigation deficiencies. It is a planning and coordination mechanism and, while implementation is the responsibility of States, APIRG can play a significant role in supporting the implementation of Standards and Recommended Practices (SARPs) as well as Regional requirements**

APIRG ORGANIZATION

APIRG ORGANIZATIONAL CHART - 2014

APIRG Chairman Secretary

APIRG Projects Coordination Committee (APCC)

AFI Traffic Forecasting Working Group

Infrastructure and Information Management Sub-Group (IIM/SG)

Airspace and Aerodrome Operations Sub-Group (AAO/SG)

APIRG ORGANIZATION

AAO SG

➢ AAO Subgroup Project teams – States and Organizations Identified take leading Roles

➢ AFI SSR Code Allocation and Assignment Review (ASCAAR)

   - Project Team Number A3 priority 1A

   - Project team members – Botswana, Cote D'Ivore, Kenya, Ghana, South Africa, Nigeria, Senegal, ASECNA, IATA and CANSO

   - EAC incorporated

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➢ **In order to carry out the work of the Sub-Groups a project management approach will be followed. 'Projects' will be identified and executed by 'teams' of subject matter experts and champions reporting to the Sub-Groups. In certain circumstances, APIRG may, as it deems necessary, agree on a Project Team that does not report to a Sub-Group, but to the Group itself through the APCC**

➢ **Project teams shall be composed of subject matter experts possessing the qualifications and experience required in the specific projects to which they are nominated and be familiar with the areas under consideration**

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➢ **Cognizant that not all AFI States will be members or participants in the activities of Project Teams, members of the teams will be expected to participate in their capacity as subject matter experts as opposed to representatives of their individual States or organizations**

➢ **Project Teams shall automatically be dissolved at the end of the given period or delivery of a project's final results, unless APIRG directly or through the APCC expressly decides otherwise**

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➢ **Project Teams shall elect from among them, Project Team Coordinators (PTCs) who shall coordinate the team activities and report progress to the Sub-Groups or the Group as necessary**

➢ **Project Teams will be supported by Facilitators designated by the Secretary of APIRG from among members of the ICAO Secretariat. In addition, the Secretary of APIRG may assign other members of the Secretariat to support the Project Teams as necessary.**

➢ **The TORs of Project Teams will be detailed as part of each project definition**

AFI SSR CODE ALLOCATION AND ASSIGNMENT REVIEW (ASCAAR)

➢ Estimated 2 sittings/meetings in 30/60 days

➢ Required senior operational controllers (could be operational supervisors)

➢ CNS who are familiar with functional characteristics of FDPSs in place and in production

➢ Primary expertise – senior operational controllers

➢ CNS to provide complementary role but **critical**

➢ **Project conclusion by end of 2017** following request to APIRG by Kenya (WP) in July 2016 and AAO SG in May 2017

AFI SSR CODE ALLOCATION AND ASSIGNMENT REVIEW (ASCAAR)

➢ **ASCAAR project Description**

- AFI SSR Code Allocation and Assignment Review (ASCAAR)

➢**Project objective**

- To update the AFI SSR Code Allocation Plan and assignment standards in order to make codes available to all airspaces and improve usage to increase availability of each code.

- Streamline inter-FIR code allocation within given blocks of airspace.

- To increase the efficiency of SSR code usage

AFI SSR CODE ALLOCATION AND ASSIGNMENT REVIEW (ASCAAR)

➢ **Project scope**

- Ensure all States/FIRs/blocks of airspaces are allocated SSR codes

- Ensure no multiple code allocations in States/FIRs/blocks of airspace

- Ensure FIRs/blocks of airspace code allocation/sharing schemes

- Address concerns related to interoperability of CNS/ATM systems

AFI SSR CODE ALLOCATION AND ASSIGNMENT REVIEW (ASCAAR)

➤ **Project Metrics**

- Number of SSR codes available to States/FIRs/blocks of airspace for allocation

➤ **Project Goals**

- Ensure that adequate SSR codes are available to States/FIRs/blocks of airspace for allocation

➤ **Project strategy**

- Collect data on the current status of SSR Code allocation

- Analyze data collected

- Review current SSR code allocation

AFI SSR CODE ALLOCATION AND ASSIGNMENT REVIEW (ASCAAR)

➢ **Project Justification**

- Ensure no conflict in code allocation

- Ensure availability of SSR codes for allocation and assignment

- Ensure equitable distribution of allocated SSR codes

➢ **Related Projects**

- Operational requirements for CNS(OPREC)

- RVSM & Operational Safety in ATS (ROSATS)

AFI SSR CODE ALLOCATION AND ASSIGNMENT REVIEW (ASCAAR)

ASCAAR PROJECT TEAM MEMBERS

AIRSPACE OPERATIONS AND AOP PROJECTS States and Organizations Identified to take Leading Roles in the APIRG Project		
Projects	Project No.	Project Team Member States & Organisations
AIR SPACE OPERATIONS PROJECTS		
AFI SSR Code Allocation and Assignment Review (ASCAAR)	A3	Botswana Côte D'Ivoire Kenya Ghana South Africa Nigeria Senegal ASECNA IATA CANSO IFATCA
		Invited States/Organizations
		East African Community (EAC)
		EUROCONTROL

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AFI SSR CODE ALLOCATION AND ASSIGNMENT REVIEW (ASCAAR)

➢ 2- 4 May 2018 1st physical meeting held in Nairobi
➢ Attendance
  - Botswana
  - Kenya
  - IFATCA
  - EAC
  - ICAO

AFI SSR CODE ALLOCATION AND ASSIGNMENT REVIEW (ASCAAR)

Developed;

➢ Detailed Development of the ASCAAR Project Definition

➢ Reviewed the current AFI SSR Code Allotment Management (CAM) and Assignment

➢ Proposed New Improved AFI SSR CAM and Assignment Methods

➢ Proposed Next Steps (Presentation at SG, AFI APIRG APCC)

AFI SSR CODE ALLOCATION AND ASSIGNMENT REVIEW (ASCAAR)

Expected Outcome;

➢ Establishment of PAs within the AFI Region to facilitate maximum use of existing SSR codes

➢ Establishment of PAs considering Major areas of traffic flows

➢ Consideration of upgrade of equipment/activation of function in States

➢ Consider interregional automated coordination of codes

ASCAAR COORDINATION WITH AAO SG

AAO – SG/2

21- 25 May 2018 meeting held in Nairobi

Attendance

1- Benin

2- Cameroon

3- Chad

4- Cote D'Ivore

5- Ghana

6- Kenya

7- Mali

8- Mauritania

9- Namibia

9- Niger

AAO – SG/2

10- Nigeria

11- South Africa

12- Senegal

13- Tanzania

14- Uganda

15- Zambia

16- ARMA

17- ASSA-AC

18- ASECNA

19- CANSO

20- IATA

21- IFATCA

22- ICAO

ASCAAR COORDINATION WITH AAO SG

AAO SG - Decision

Revised AFI SSR Code Management Plan

➢ **That, in order to provide for increased availability of SSR codes to all AFI FIRs and terminal airspaces therein, to improve availability and efficiency usage of the allocated codes, and facilitate continuing efficiency in the use of SSR codes;**

- **AFI SSR Code Management Plan to the report is endorsed**

- **CMP be coordinated with IIM SG/2 and further guidance, if applicable be provided to the ASCAAR Project Team to adjust the Plan accordingly**

ASCAAR COORDINATION WITH AAO SG

- Based on further guidance provided by the AAO and IIM Sub-Groups, the ASCAAR Project Team reviews the Draft CMP and re- submits to the AAO SG/3 meeting for onward consideration and adoption by APIRG/22

Conclusion

Originating Region Code Assignment Method - **ORCAM** with Multiple Participating Areas (PAs) in the AFI region

That, in order to optimize the availability of SSR codes in the AFI Region in the short to medium term (up to three years);

ASCAAR COORDINATION WITH AAO SG

- The AFI Region adopts application of ORCAM with multiple PAs;

- Initially, the Region adopts four Participating Areas (PAs) aligned with the current AFI areas of routing, to be implemented once endorsed

-The number and structure of the PAs be further studied and adjusted based on up to date data on traffic patterns and volumes, and submitted to APIRG/22 for adoption and implementation in 2022

- The Secretariat to ensure coordination as necessary between the ICAO AFI and adjacent Region

ASCAAR COORDINATION WITH AAO SG

SSR Codes Sharing

In order to increase the availability of SSR codes in the AFI CMP, as an initial step prior to Implementation of Revised AFI Code Management Plan

- The AFI Region adopts the approach of "SSR code sharing" between FIRs that are geographically adequately disparate and/or where directional assignment of SSR codes makes "code sharing" practical

- "SSR code sharing" be implemented after appropriate safety assessments have been carried out by the concerned FIRs

ASCAAR COORDINATION WITH AAO SG

- ATS Letters of Agreement (LoAs) updated, except where a Regional or sub-regional arrangement obviates such action

- ICAO ESAF and WACAF Regional Offices be duly informed by the respective FIRs of the specific SSR code sharing arrangements including completion of requisite steps such as safety assessments, at least 60 days before implementation of the arrangements

- The above measures to be applicable from 8 November 2018

THANK YOU