



| ICAO

UNITING AVIATION

How SSR Code 4096 Operates in an Automated System

Harvey LEKAMISY
ASCAAR Workshop
Nairobi, Kenya



SSR Code Management

- ✦ **Configuration of SSR code set**
- ✦ **SSR code assignment object and time**
- ✦ **SSR code assignment principles**
- ✦ **SSR code assignment methods**
- ✦ **SSR code release method**



Configuration of SSR code set

To configure the assignable code set to every ACC, including four types of codes:

- ✧ Depart from the local airport, the destination airport is within the local control area/FIR
- ✧ Depart from the local airport, the destination airport is out of the local control area/FIR
- ✧ Overfly the local control area/FIR
- ✧ Can be assigned or not assigned defined by the special route or airport

The attribute of the code set could be main, backup or **scattered**.



SSR code assignment object and time

- **To the flight to be departed from the local airport, the available code shall be assigned before taking off, VSP time (normally 30 mins)**
- **The out boundary flights enter into the local control area, to judge if there is repeated code; if there is, will assignment the available codes**



SSR code assignment principles

- ✦ **“First arrival, first service” for code assignment**
- ✦ **Two kinds of SSR code are available, the ATM system only assign ASSR, PSSR shall record the status before assignment. ASSR is the code to be currently used as per the plan; PSSR is the code before the change of ASSR if ASSR changed;**
- ✦ **assignment shall be implemented as per the sequence of main, backup and scattered**



SSR code assignment methods

Assignment switch is configured, two assignment methods are available:

- ✦ When the switch is on, the system shall automatically assign the code; the available codes shall be assigned according to assignment principles and time before the configuration of VSP parameters; the system shall give prompt if there is no available code;
- ✦ When the switch is off, or manually select a single/batch under the automatic mode, the system shall adopt manual assignment



SSR code assignment release

The release time of different flights are as follows:

- ✧ When the flight plan status is over, the code shall change to freezing;
- ✧ When the flight plan status is static, the code shall change to freezing;
- ✧ After the change, the original code shall be changed as freezing one;;
- ✧ To the freezing code, after the VSP time, it shall change to a free assignable code



WORKING TOGETHER – Overcoming today's challenges and tomorrow's needs



ICAO

UNITING AVIATION



ICAO

North American
Central American
and Caribbean
(NACC) Office
Mexico City

South American
(SAM) Office
Lima

ICAO
Headquarters
Montréal

Western and
Central African
(WACAF) Office
Dakar

European and
North Atlantic
(EUR/NAT) Office
Paris

Middle East
(MID) Office
Cairo

Eastern and
Southern African
(ESAF) Office
Nairobi

Asia and Pacific
(APAC) Sub-office
Beijing

Asia and Pacific
(APAC) Office
Bangkok



THANK YOU