

## **Frequency Finder** 6 SSR Mode S II Codes



#### Workshop Dakar, Senegal, 24 – 28 April 2017 Presented by Loftur Jonasson ICAO/HQ Mie Utsunomiya ICAO/HQ Robert Witzen



### SSR Mode S II Codes (1) Start (1)

- Functionality for the Mode S II module is similar to that for VHF COM frequency assignments
- Navigate to the Home Page for Mode S II Codes with the button SSR II on the Start Page
- Home Page is under development to include synchronization with the Global Mode S II Code list
- From the Home Page the user can navigation to the Table wit SSR Mode S II Codes



# SSR Mode S II Codes (2)

- Button Go to SSR II navigates to the Mode S II Code list and triggers the integrity check.
- The SSR II code list is the main page to:
  - Add, modify, delete Mode S II Codes
  - Browse and Query the Mode S II Code list
  - Test compatibility of Mode S II Codes
  - View calculation results
  - Export Mode S II Codes or parts of it
- These functions are the same as for COM list 3



## Home Page → Mode S II Code list Integrity Check

- Find records same Key (partially duplicates)
- Find records with empty essential fields
- II Codes outside the range 1-16
- Find draft records

- Request user which record to keep
- User intervention (keep/repair)
- User intervention (keep/repair)
- User intervention (keep/convert/delete)



### Mode S II Code list (1)

E Frequency Finder		
Image: Started street     Started street       Records     Show All       New Record     Show All       New Record     Delete Record       Find     Sort       Show All     New Record       Delete Record     Find       Sort     Share       Debugger     Data Viewer Manage	Q.,	
Layourt: SSR_GLOBALLIST * Wew As:	AA.	EditLayout
User Regional Office // 2017.0 Active Region -+AFI SSR Mode S Interrogator Identifier (II) Code list User Manual Sync Manual ST		
total     found     found		
US 21 KEY REGON SSR code 21 COUNTRY 21 NAME location LATITUDE LONGITUDE DOC (NIN) Cluster ATS Unit served AMSL (m) REMARKS	ChDate	ChBy
E 5000 A/I I Benin BEN Cotonou 06021'31" N 002022'59" E 200	12/02/2017	WACAF
E S100 AFI BOTSWANA BOT Gaborone [24032'33" S 025D55'52" E 200 Sir Seretse Khama	12/02/2017	ESAF

- The Navigation, Query/Select, Functions and Special Functions buttons provide for the same functionality as those for the VHF COM list 3.
- When clicking the field DOC, the coverage (range) for each of the 24 sectors is displayed
- When the field DOC reads "Sectorized", the coverage is different in different directions



#### Mode S II Code

#### Add new or modify SSR Mode S II Code

- Click the button new or Mode Mode S II Code on the II Code list
- This window allows the user to enter the characteristics for the new or modified II Code assignment
- Click the button COVERAGE to enter the circular coverage for the Mode S station
- Each of the 24 sectors can be modified in cases where the coverage is sectorized
- After entering the coverage, click the button *Re-calculate* test points
- Click the button *Test* to test the compatibility of the new or modified II Code



#### Mode S II Code list (1)

#### Add, modify or search for a compatible Mode S II Code

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Frequency Finder	
	rrogator Identifier (II) Code User Manual Sync Manual ST ^
Start Home Start Home Save New or Modified II Code SAM II Code list Save New or Modified II Code NEW/MOD SSR Mode S // Code	C
Margin (NM)       Sector2 200         The selected SSR Mode S II Code is compatible       76       Cluster       Sector2 200         REGION       SAM       Sector3 200       Sector4 200         COUNTRY       Chile       CHL       Sector5 200         NAME location       TEST ICAO       Sector7 100         LATITUDE       00       D       6       1       45       Sector9       Sector9 100         LONGITUDE       072       D       32       06       I/N ~       Sector10       100         REMARKS       Sector11       100       Sector11       100	Sectorized Sector13 200 Sector14 200 Sector15 200 Sector15 200 Sector15 200 Sector16 200 Sector17 200 Sector17 200 Sector21 350 Sector22 350 Sector23 350 Sector23 350 Sector24 200 I I I I I I I I I I I I I I I I I I I
SSR Mode S Intern	ogator Identifier (II) Code list