



ICAO

SAFETY

Frequency Finder

6 SSR Mode S II Codes



Workshop

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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) ➤ Request user which record to keep
- Find records with empty essential fields ➤ User intervention (keep/repair)
- II Codes outside the range 1-16 ➤ User intervention (keep/repair)
- Find draft records ➤ User intervention (keep/convert/delete)

Mode S II Code list (1)



KEY	REGION	SSR code	COUNTRY	NAME location	LATITUDE	LONGITUDE	DOC (NM)	Cluster	ATIS Unit served	AIRPL (m)	REMARKS	ChDate	ChBy
E	5000	AFI	BENIN	Cotonou	00021°31" N	002022°59" E	200					12/02/2017	WACAF
E	5100	AFI	BOTSWANA	Gaborone	24032°33" S	025055°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

The screenshot shows the 'Frequency Finder' application window. The title bar reads 'Frequency Finder'. The main interface is divided into several sections:

- Top Bar:** Includes 'User: Name', 'FF 2017.0', 'Active Region: SAM', 'SSR Mode S Interrogator Identifier (II) Code', 'User Manual', 'Sync Manual', and 'ST'.
- Navigation:** 'Start Home', 'Global II Code list', 'SAM II Code list', 'Mapping', 'Save Now or Modified II Code'.
- Central Panel:** 'NEW/MOD SSR Mode S II Code'. It features a 'KEY' section with 'D 4039', 'US', 'DH', and 'Mod assignment'. A 'Single II Code' field is empty. A 'Margin (NM)' field is set to '70'. A 'Cluster' field is empty. A 'COVERAGE' table is displayed, and a 'START SEARCH' button is highlighted with a blue box.
- Right Panel:** 'Search range: 1..15'. It lists 'II Code' (FF1 to FF10) and 'Margin' fields. A 'START SEARCH' button is highlighted with a blue box. Below it are 'MAX II codes: 1', 'FOUND II codes: 0', 'Searching: []', 'Selected II code: []', and 'Test II Code: []'.
- Bottom Panel:** 'REGION: SAM', 'COUNTRY: Chile', 'NAME location: TEST ICAD', 'LATITUDE: 00 D 06 45 S', 'LONGITUDE: 072 D 32 06 W', 'REMARKS: []', 'ChBy: BIV', 'ChDate: 16/02/2017 12:43:48', and 'Re-calculate test points'.