

**USCG Private Aid to Navigation (PATON) Application
Automatic Identification System (AIS) ATON Station Addendum**

Attributes of the Physical AIS AtoN Station

Parameter	Values	Description & Default Values
Make: FCC Approval Nr: Retailer: Installer:		Provide the make, FCC Approval Number (as denoted on the back label of the unit), retailer, and installer of the station.
AIS AtoN Station Type		Denote AIS AtoN station type & whether dual or single channel (see IALA A-126). Default: Type III, dual channel.
Power Source		Denote main & back-up power source (i.e. electric utility, on-site generator, solar panels, rechargeable battery, universal power supply, back-up generator).
Transmit Power		Denote transmit power if defined by manufacturer. Default: 12.5 W
Transmitter Capability		Denote whether the station can transmit on other than AIS1/2. Type I & II only. Default: Type III
Receiver Availability		Denote receiver on times. Default: Not applicable (N/A).
Type of Electronic Position Fixing Device (EPFS)		0=Undefined (default); 1=GPS; 2=GLONASS; 3=Combined GPS/GLONASS; 4=Loran-C; 5=Chayka; 6=Integrated Navigation System; 7=surveyed; 8=Galileo; 9-14=not used; 15=internal DGNSS. Default=7=Surveyed Position. A surveyed position shall be used for any fixed, synthetic or virtual AtoN; obtained from the USCG Light List or if not listed from the mean position of at least 100 RAIM GPS position reports. The accurate position enhances its function as a radar reference target.
RAIM Capability		Denote whether the EPFS has Receiver Autonomous Integrity Monitoring (RAIM) capability. Default=0=RAIM not used.
UTC Synchronization		Denote direct, indirect or semaphore (Types 3) time synchronization. Default: Direct
Assigned Mode Flag		Denote station operating mode: 0=Station operating in autonomous & continuous mode=default; 1=Station operating in assigned mode. Default=0=Autonomous & continuous.
Chaining		If applicable, provide all MMSIs in the chain & the neighboring stations (parent & child) to this station. Default: Not applicable (N/A).

Message contents

Name of AtoN		Denote the 20 character AIS AtoN Name [abbreviated PATON name]
Type of AtoN		Denote the nature & type of AtoN (Codes 0-31, see IALA A-126). Note, not the same as AIS ATON Station Type 1-3. Default=0=Type not specified.
AtoN Status		Denote status indicators available on the AtoN; see IALA A-126. Default=000000=Not specified.
Latitude & Longitude of the broadcast location	LAT: LONG:	The latitude & longitude WGS84 position of the station broadcast antenna; expressed in 1/10 000 of a minute of arc (i.e. 31.00001'N, 121.00001'W). * For Virtual or Synthetic ATON broadcast(s), provide position(s), type & name in the Additional Detail section.
Dimension / Reference for Position of Broadcast Antenna		<p>Default: A=B=C=D=0 [for a Reference Point]</p>
Transmit Antenna Ht.		The height of the broadcast antenna in meters above sea level (ASL).

Transmitted messages, Access Mode & Reporting Rate

Denote the messages to be transmitted, access mode (i.e. RATDMA, FATDMA, CS/SO-TDMA), & reporting rate for each message. A message 21 transmission is required every 3 minutes alternating on AIS1 & AIS2; denote if message 21 reporting rate is different. Message(s) 6, 8, 25 or 26 shall include DAC & FI, Message(s) & not exceed one per minute. Message 12 & 14 shall be pre-formatted text (denote in the 'Additional Details' section below). FATDMA mode is contingent upon whether the USCG is able to reserve FATDMA slots in the area applied.

Message# / DAC# / FI# / Access Mode / Reporting Rate / Additional Comments.

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Additional Details & Concept of Operations

How & who will be configuring, deploying, monitoring, maintaining & using the station, i.e.: (1) standard presentation interface (PI) sentences (i.e. IEC 61162 series); (2) standard AIS AtoN configuration messages; and/or (3) proprietary sentences or binary configuration messages; & whether via the AIS VHF Data-Link (VDL) and/or by other means. Its concept & period of operation, etc. Whether the station will also broadcast Virtual ATONs, and, the total number and position(s) of each one.

Maritime Mobile Service Identity

USCG ASSIGNED

This assigned MMSI should be used to seek radio licensing. Period of approval will be defined when proof of licensing is provided.

The applicant shall cease operations, and notify cgnav@uscg.mil, immediately whenever this ATON is not operating in accordance with 33 CFR §66, IEC 62320-2, this application, or addendum