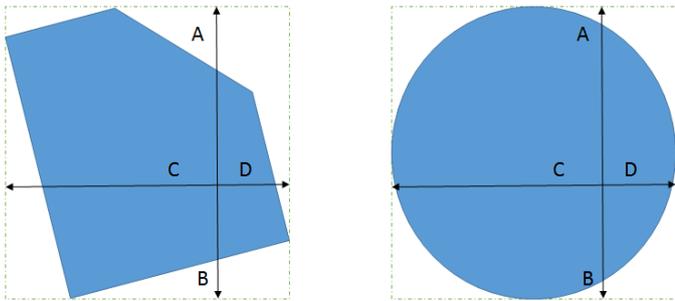


**USCG Private Aid to Navigation (PATON) Application  
Automatic Identification System (AIS) ATON Station Addendum**

**Attributes of the Physical AIS AtoN Station**

Parameter	Values	Description & Default Values
Make & Model	Make: Model: Retailer:	Provide the make, model and retailer of the station.
AIS AtoN Station Type		Denote AIS AtoN station type, and whether single/dual channel (see IALA A-126).
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 other than 12.5 W .
Transmitter Capability		If Type I/II, denote whether this station can also transmit on other than AIS1/2.
Receiver Availability		If Type II, denote receiver on times in the 'Additional Comments' section.
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 DGNS. Default=7=Surveyed Position (manual input). <b>Non-floating, synthetic or virtual AtoN must use a surveyed position, or a fixed position that reflects the published USCG Light List position, or the mean of at least 500 RAIM GPS position reports spread across a 4-hour sampling.</b>
RAIM Capability		If using GPS, denote if it has Receiver Autonomous Integrity Monitoring (RAIM) capability. Default=0=RAIM not used.
UTC Synchronization		Denote direct, indirect or semaphore (Type III) synchronization.
Assigned Mode Flag		Denote station assigned mode: 0=Station operating in autonomous & continuous mode=default; 1=Station operating in assigned mode. Default=Autonomous & continuous.
Chaining		If chained, denote each chained MMSIs (parent, sibling, child) in the 'Additional Details' section.

**Message contents**

Name of AtoN LLNR		<b>Proposed</b> 20-character ATON name, its official name will be provided by USGG. Note, the 14-character 'Extended Name' parameter is reserved for its Light List Number (leave blank).
Type of AtoN		Denote the type of AtoN (Codes 0-31); <b>not the I/II/III 'Station Type'</b> .
AtoN Status		Denote status indicators available on the AtoN; see IALA A-126. Default=0000000=not used.
Latitude & Longitude of the broadcast location	LAT: LONG:	Denote the WGS84 latitude & longitude position of the station <b>broadcast antenna; expressed in 1/10,000 of a minute of arc (i.e. 31.00001'N, 121.00001'W)</b> . Provide position(s), type, and name in the 'Additional Detail' section if the AtoN position differs from the broadcast position (i.e.virtual or synthetic AIS ATON).
Dimension / Reference for Position of Broadcast Antenna	A= B= C= D=	<p>Default: A=B=C=D=0 [for a Reference Point, Synthetic or Virtual AIS ATON] 'A' shall always indicate True North dimension</p> 
Off-Position Threshold		The off-position monitoring threshold for a floating AIS ATON should be set to: = $(\sqrt{\text{Chain Length}^2 - \text{Water Depth}^2}) * 110\%$ meters
Transmit Antenna Height (ASL).		Denote the height of the broadcast antenna <b>in meters above sea level (ASL)</b> .

**Transmitted messages, Access Mode & Reporting Rate**

Denote all the messages to be transmitted, their access mode (i.e. RA/FA/CS/SO-TDMA), and each reporting rate. FATDMA mode is contingent upon the CG being able to provide slots in the desired area of operation. Message 21 shall be transmitted at least every 3 minutes; alternating on AIS1 & AIS2. Messages 6, 8, 25 or 26 shall include their: Designated Area Code (DAC), Function Identifier (FI), and version number; and, may not be transmitted more than one version per minute. Message 12 or 14, if used, shall pre-formatted (and provided in the 'Additional Details' section).

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

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**Additional Details & Concept of Operations**

Denote who, when, where and how it will be configured, deployed, monitored, maintained & operated; include standard presentation interface (PI) sentences (i.e. IEC 61162 series), standard AIS AtoN configuration messages, and/or proprietary sentences or binary configuration messages that will be used; and whether done via the AIS VHF Data-Link and/or by other communication means (i.e. IP/TCP). Provide brief concept of operations and desired period of operation, etc. If the station is configured to broadcasts Virtual ATONs; include the total number and their position(s).

Maritime Mobile Service Identity

To be provided by the USCG

**Final approval is conditional upon licensing or authorization by the Federal Communications Commission (FCC) or National Telecommunications Information Agency (NTIA), respectively.**

\* \* \*

**The applicant shall cease operations, and notify [cgnav@uscg.mil](mailto:cgnav@uscg.mil), immediately whenever this station is not operating in accordance with 33 CFR 66, IEC 62320-2, this application and addendum.**