

SECURE AIS

Secure Information Exchange



The AIS broadcasting standard is excellent for information exchanged between commercial ships at sea and between ships and shore stations. This open information sharing is however not always suitable for users like Navy, Coast Guard, Police etc., who may have a need to exchange non-public information between their own units and still be able to receive the open AIS information.



Saab TransponderTech has developed the Secure AIS solution which satisfies these requirements. The Secure AIS functionality can be offered for all AIS products in Saab's portfolio, including shipborne/airborne transponders, base stations, AIS network and presentation systems. Upgrade options are available for existing, qualified users of Saab's AIS products and systems.

Secure Link

The user defines one or several VHF radio channels, here called Secure Link, for exchange of encrypted messages between participating units within the organisation. The Secure Link operates on a dedicated VHF frequency, tunable by the AIS transponder and under control of the user. This means that the secure operation does not affect the communication on standard AIS channels. The Secure AIS option is an integrated part of all Saab's AIS products, thus enabling secure communication between control centers, ships, aircraft, etc.

Crypto solution

Saab's Secure AIS products are supplied with a built-in crypto function with unique crypto keys for each organisation. The crypto method is optimised for the TDMA protocol used in AIS.

Qualified users

The Secure AIS products are only licensed to qualified customers e.g. government organisations.

Secure Keys

The crypto is the highest grade commercial crypto solution which ensures high integrity.

It is possible to define the time of validity and channel used for each generated key. Several keys can be issued simultaneously and be input in advance. Saab offers an advanced key generating tool to ensure that high quality encryption keys are created.

It should be noted that the customer will be in full control of the issuing and handling of the crypto keys.



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