



SEA4G

4G FOR DEVELOPING HIGH-SPEED COMMUNICATIONS AT SEA

The object of SEA4G is to develop a solution using 4G LTE technology to providing high-speed ship-to-ship and ship-to-shore communications for all elements in a fleet – ships, oil and gas platforms, wind farms under construction, etc.

The SEA4G solution is based on compact relay nodes which permit simultaneous:

- Ship-to-ship communication outside terrestrial network coverage,
- Ship-to-shore communication within coastal network coverage.

The SEA4G will offer performances of:

- 40Mb/s per link at 10 nautical miles between carriers in a stabilized antenna configuration,
- 10Mb/s per link between carriers in rough seas.

SEA4G will develop a comprehensive high-speed communications system – hardware and associated software – validated in the maritime environment and interoperable with a large number of global network operators.

The project responds to the needs of various sectors – surveillance and security at sea, shipping safety and the security of supply services in port areas, offshore oil and gas and offshore wind power.

The SEA4G project is recognised jointly by the Pôle Mer Bretagne and the Pôle SYSTEM@TIC clusters.

Partners

Companies

Thales Communications & Security,
Gennevilliers [[Project Developer](#)]
ERCOM, Vélizy
Kenta Electronic, Quimper
KYEMO, Douarnenez

Research centers

ENIB, Brest
ENSTA Bretagne, Brest
Université de Paris-Sud, Institut
d'Electronique Fondamentale (IEF),
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Funder

Sans financement public

Labelisation

14/03/2014

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2 376 K€