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SPECIAL

Naval forces and operations' evolution in the light of the A2/AD bubbles



With this special feature, RID aims to open a debate on the naval capabilities re-configuration, in terms of both the new constructions and the weapons and equipment. A particularly needed debate, when considering the evolution of the scenarios, the consolidation of the so-called A2/AD bubbles, and the gradual emersion of an increasingly more sophisticated military threat.

Energy management on board the naval vessels



Starting in the last 20th century decades, the use of electrical energy on board the ships increasingly became more important because of different factors, including the spread of electric propulsion, the increase of energy requests by the sensors, and the diffusion of the electrical actuators replacing the hydraulic or steam actuators. To all these factors, others are added today, and ever more will be added in the future, including the use of direct energy weapons and advanced sensors even more energy-thirsty. This is the reason why the energy management (energy production, storage, distribution, and reuse) became today a key element on board a ship.

Royal Air Force between modernization and budget issues



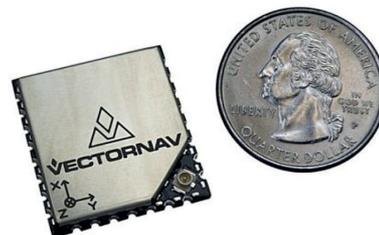
There is quite uncertainty about the next British Integrated Review and how it will impact the British Armed Forces. Concerning the RAF, against important investments due to modernize various sectors, there are other operational capabilities exposed to cuts or write-off risk. The article states what the current situation is, with a detailed analysis of the Royal Air Force future.

Royal Canadian Navy: the future challenge



Canadian Navy's organizational structure and missions.

MEMS systems applications



The MEMS (Micro Electro-Mechanical System) acronym refers to a technology related to microscopic devices able to integrate the electrical, optical and mechanical properties of the different components. The article presents the applications of this sophisticated technology in the Defence sector, particularly in the aerospace.