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## Norwegian Armed Forces in multilateral peace operations



The Norwegian defence policy is has two main objectives, to secure alone and together with Allies, Norwegian sovereignty, rights and interests and additionally through participating in multilateral peace operations and through international defence cooperation, to contribute to peace, stability, the enforcement of international law, respect of human rights, and prevent the use of force by state and non state actors against Norwegian and international security. Norway has actively participated since 1947 to international missions by contributing 120,000 military personnel to over 40 international operations abroad, hence fully materialising the international scope of their Armed Forces.

This contribution continues throughout the years and it is indicative that during 2009 the Norwegian Armed Forces' involvement to multinational operations abroad included an average of around 800 men and women. Furthermore, in the beginning of 2010 this number

### Number of NAF Personnel in Previous Multinational Operations

<b>Croatia (1992-1995)</b> UNPROFOR, Number: 4401
<b>Bosnia-Herzegovina (1995-1996)</b> IFOR, Number: 1777
<b>Croatia (1995-1996)</b> UNPF, Number: 162
<b>Macedonia (1995-1999)</b> UNPREDEP, Number: 808
<b>Croatia (1996-1998)</b> UNTAES, Number: 16
<b>Bosnia-Herzegovina (1996-1994)</b> UNMIBH, Number: 4
<b>Bosnia-Herzegovina (1997-2000)</b> OSCE, Number: 5
<b>Kosovo (1998-1999)</b> OSCE, Number: 5
<b>Croatia/Prevlaka (1996-1998)</b> UNMOP, Number: 9
<b>Macedonia (2003)</b> Allied Harmony, EU, Number: 5
<b>Bosnia-Herzegovina (1996-2004)</b> SFOR, Number: 3650
<b>Bosnia-Herzegovina (2004-2008)</b> EUFOR, Operation Althea

Source: FST P&I, Fist-H, FNVLF, FOHK, Fokiv, [www.un.org](http://www.un.org)

raised and about 900 men and women of the Norwegian Armed Forces were involved in multinational operations. This number was gradually reduced as the Norwegian participation in the EU operation to combat piracy of the coast of Somalia with frigate Fridtjof Nansen ended in January and the Norwegian field hospital provided for the UN operation in Chad comes recalled in spring 2010.

The main area of the Norwegian interest in multinational operations remains their participation in the NATO stabilization operation in Afghanistan. Norway is also contributing smaller forces to UN-led operations in Africa and the Middle East, the multinational operation in Sinai (MFO) and the NATO-led operations in the Balkans. The sum of NOK 1,227 million has been budgeted for additional expenditure arising from international operations in 2010. This additional expenditure covers the variable costs arising in connection with specific operations.

### Number of NAF Personnel in Current Multinational Operations

#### \* Number of Personnel Today

<b>Kosovo (1999- )</b> UNMIK, Number: 12 (1*)
<b>Kosovo (1999- )</b> KFOR, Number: ca. 7100 (ca. 6*)
<b>Bosnia-Herzegovina (2004- )</b> EUFOR/NATO HQ Number: 20 (21*)
<b>Bosnia (2005- )</b> NH Sarajevo, Number 57 (3*)

Source: FST P&I, Fist-H, FNVLF, FOHK, Fokiv, [www.un.org](http://www.un.org)

Another important fact that we must stress is that Norwegian forces deployed in operations outside Norway will to a large extent be the same as those intended for the defence of the national territory. The structure of the armed forces will therefore not be determined solely

on the basis of collective defence of Norway, but will also be able, within an Allied context, to contribute with relevant forces to collective defence efforts, including the defence of Norwegian territory. In light of the current security environment, Norway's contributions to NATO's collective defence will consist of a broad spectrum of contributions, which are all relevant to Article 5. This also involves making the bulk of own reaction forces available in advance to NATO's reaction forces.



Finally, it is important to say that Norwegian forces will, as a rule, participate in operations in a multinational framework, normally under the authority of the UN or NATO and periodically also to EU-led operations. In order to fully adjust to international law the Norwegian armed forces will only participate in missions that are in accordance with Article 64 51 of the UN Charter, or in accordance with a UN Security Council mandate in line with Chapter VI or VII of the UN Charter.

Since 1947 Norway has contributed military personnel to over 40 international operations in countries overseas including Afghanistan, the Middle East, Ethiopia/Eritrea, Sudan and the Balkans. Norwegian Armed Forces are fully trained to provide specific military capabilities and ready to be deployed in a conflict area at short notice and together with allies to prevent the onset of an acute crisis.

Kyriazis Vasileios,

Epicos Newsletter Head Editor

*Jotne EPM Technology, The leader in product data exchange and sharing including ILS interoperability*



Jotne EPM Technology is a member of the Jotne Group, specializing in Logistics Information Technology. Since 1990 the company has developed database solutions to handle standards such as *ISO 10303 STEP, PLCS, ASD/AIA S-series parts etc.* These are open specifications with public availability used by aerospace, space and defence- related industries to manage information about complex systems. Jotne has a staff of about 300 people, and its IT products are used by clients all over the world, including the US Department of Defense, the European Space Agency and leading aerospace/defence/space contractors.

Jotne's software is used today by the world's leading civil aviation, space technology, oil and gas, vehicle manufacturing and defense industries. The company's solutions are based on its own groundbreaking technology which takes as its starting point the customers' desire for standardized data models and data exchange formats. Jotne EPM Technology has established itself as one of the leading providers of solutions for product data technology – the open paradigm for the 21st century. Jotne's product suite *EXPRESS Data Manager™* is designed to meet the needs of engineering and manufacturing enterprises to accurately and reliably exchange and share technical data with colleagues, customers, subcontractors, suppliers and other business partners. The products fully implement the EXPRESS data-modeling language which supports most international product data technology standards - including ISO 10303.



**Aeronautics/ Defence:** Over the years, Jotne has worked closely with some of the most advanced aerospace and defence projects in the world, including the MODs, EADS, Lockheed Martin, SAAB, Boeing, etc. Jotne has proved itself to be trustworthy and capable. The maturity of the company's defence products is showcased by the fact that Jotne formulated an agreement with Lockheed Martin Aeronautics to expand the development and deployment of an advanced System for Simulation Data Management (SimDM) using the STEP/PLCS standards, ISO 10303.



The SimDM project will provide a functioning collaboration server with the ability to distribute timely, accurate and complete product data, based on ISO 10303-209 (AP209) in support of aircraft, land vehicles, and ships allowing users such as national ministries of defence and air logistics centers to have access to simulation information. It also provides users the ability to combine Product Data Information that will interface with Lockheed Martin's core engineering and simulation off-the-shelf CAD and CAE applications.

"Companies investing in data exchange capabilities based on interoperability standards will greatly benefit from its ability to retain digital product data for long periods of time – greater than 50 years, said Dr. Mike Jahadi, Technical Fellow at Lockheed Martin Aeronautics. The objective of the SimDM project is to help solve the current constraints on long term data

retention of information using an internationally recognized standardized format, enabling cost-effectiveness, streamlined processes and improve efficiencies.

“Jotne is excited about this new project opportunity and we are extending our 10 years’ experience working together with Lockheed Martin”, said Jotne Vice President Kjell Bengtsson.

[For further Information Press Here](#)

#### **Aerospace & Defence products:**

The suite of products, called EXPRESS Data Manager™ (EDM), is designed to meet the needs of engineering and manufacturing enterprises to accurately and reliably exchange and share technical data about products with colleagues, customers, sub-contractors, suppliers and other business partners. EDM products ensure that the data is available and usable regardless of the hardware or software system being used. EDM also ensure that the data is accessible and stored securely for the life of the product and beyond, if necessary.

Products from EPM Technology can be used for:



Data modelling and database management	Application development
Data management	Data quality assurance
Data exchange and sharing	Long-term data retention

EDM tools are used worldwide to facilitate cost effective business practices ranging from concurrent engineering to product life cycle management to electronic commerce.

For further understanding the company’s products, you may read two recent newsletters here: [EXPRESSway no. 11](#), [EXPRESSway no 10](#) and take the opportunity to view the [PLCS Video here](#)

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## Jotne supports the 7<sup>th</sup> NATO Conference and Exhibition “Life Cycle Management”



After six successful LCM conferences in Brussels, the next such event addresses the subject of Life Cycle

Management as the basis for Integrated Logistics Support (ILS) and cost efficiency in acquisition and operational logistics. [The conference](#) is scheduled to take place in Brussels, Belgium on 18 and 19 January, 2011 and is again organised in cooperation with the NATO Life Cycle Management Group (LCMG) and the NATO Industrial Advisory Group (NIAG). The conference will be combined with a small, dedicated exhibition, where interested parties are invited to showcase their respective capabilities.

The aim of Systems Life Cycle Management (SLCM) is to optimise defence capabilities taking into account performance, cost, schedule, quality, operational environments, integrated logistic support and obsolescence over the life cycle of the system. SLCM will assure that the processes used across projects are consistent, harmonised, and that there is effective sharing and coordination of resources, information and technologies. Amongst others, the principles of SLCM are cooperation and interoperability, efficiency, collaboration with industry, and quality. This approach also provides the perspective to bring Integrated Logistics Support (ILS) back into the focus of the development and operation of national and multinational projects. Of special interest, the strategy and specifications from ASD/AIA will be presented which highlights the use case of the S-series of standards and [PLCS ISO 10303-239](#) – Product Life Cycle Support for the DEX: Data Exchange Specifications.



Jotne, a company specialized in Logistics Information Technology, will be present in the 7th NATO LCM Conference and Exhibition. Mr. Kjell A. Bengtsson, Vice President Sales & Marketing of the company will present on Wednesday, 19 January 2011, the SLCM Aspects in Space Programmes.



## Epicos' National Industrial Development Project of Norway



The Norwegian Defence and Security Industries Association (FSI) and Epicos are actively implementing a project, since January 2009 which involves up to 120 Norwegian Aerospace, Defence & Security companies. The implementation of this project will enable Aerospace, Defense and Dual-use large, Small and Medium-size Enterprises (SMEs) to actively participate and receive a comprehensive package of services, offered via Epicos, Exostar and MFG Sourcing Parts that will increase their competitive advantages.

"FSI is very pleased to have this exclusive agreement with EPICOS for the Norwegian market. It provides us a unique opportunity to offer the services provided by EPICOS to our member companies. Our expectations are that this cooperation will lead to new business and partnerships for Norwegian industry in the global defence and aerospace industry. " said Mr Torbjørn Svensgård, President of FSi.

FSi is the largest and most important association in Norway advocating the interests of the Norwegian Defence and Security Industry. The members of FSi offer a diversified portfolio of world class products and services, in the area of Aerospace, Defence and Security. This project is focusing on expanding and establishing partnerships between Norwegian and advanced technology companies from around the world.

### About Norwegian Defence and Security Industries Association (FSi)



FSi's mission is to foster framework conditions for member companies to succeed in the domestic and global defence and security markets, thereby contributing to Norway's defence and security goals.

The association comprises more than 100 companies from all parts of Norway. It is a diversified group ranging from the major national defence contractors to one-man businesses with unique niche capabilities built on innovation and advanced technology serving both the military and civilian markets. About 85 per cent of our members are SMEs. Membership is open to any contractor with commercial interests in the defence markets and homeland defence. FSi strives to accommodate its members' needs. In our efforts to develop further and sustain a successful association, we encourage our members and other stakeholders to actively involve themselves in our affairs whether on a national or international level.

The member companies employ more than 25,000 highly skilled individuals, accounting for approximately 5000 man-years employed directly in defence-related activities. Turnover in the defence sector is estimated at NOK 9 billion (1.13 bn euro) per year, of which approximately NOK 4 billions are exports.

FSi is the single point of contact for the Norwegian Government and authorities in strategic and political issues that affect the Norwegian defence and security industry. FSi's ability to represent its members' interests is strongly enhanced through its close links to these authority organizations.

The association is also a focal point for foreign contractors seeking cooperation with Norwegian companies in relation to Norwegian defence procurements abroad and international collaborative programmes. We also strongly encourage international interested parties to contact FSi in their efforts to acquaint themselves with the Norwegian companies and competencies in these industry sectors. FSi is always prepared to provide advice and assistance to foreign contractors seeking cooperation in Norway.

FSi supports the member companies through:

- Advocacy - Representing the interests of the industry to the Government, the armed forces, opinion leaders, international organizations and the general public
- Networking - Offering a plethora of seminars and workshops every year, frequently in close collaboration with the MOD and the armed forces of Norway
- Business development - Fostering dialogue with the Government, relevant bodies in the armed forces, foreign contractors seeking partners in Norway and defence industry association in other nations and providing updated information to member companies on relevant events and activities
- Member Services - Providing general advice to member companies and undertaking seminars and courses in subjects relevant to the industry

#### About Epicos



Epicos is a global, multifaceted company providing Aerospace and Defense industries worldwide with business intelligence and active support to access opportunities on procurements, industrial cooperation and offsets and moreover e-procurement and e-sourcing tools in association with its strategic partner Exostar. For more information, visit [www.epicos.com](http://www.epicos.com).

Epicos is continuing its substantial growth in the international Aerospace and Defence community. To date, sixteen countries have adopted Epicos as the enabler to market, promote and support the development of its Industrial capabilities.

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## Request for an EPC (Engineering Procure & Construct) Project – Security



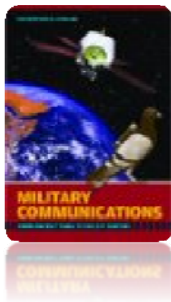
Company seeks for competitive offers for a turn-key solution as part of a larger project in the Middle East comprising of an access control system, main gates, metal detectors, shelters, gate houses, electromechanical pole barriers and related civil works.

Promote your Companies Press Releases or Industry Requests through Epicos.

## Epicos- Amazon

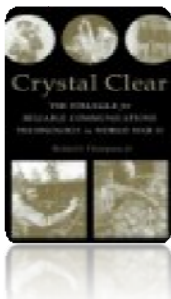


### **Military Communications: From Ancient Times to the 21st Century, by Christopher H. Sterling**



This book provides a thorough analysis of all military communication systems that humanity has used throughout the history. Advancing from fire signals to VoIP (Voice over Internet Protocol), from foot to carrier pigeons to satellites and Blackberries the book gives the history of a fascinating topic. Military communications have evolved side-by-side with technological breakthroughs and even sometimes were the motivating factor behind communication advances. "Military Communications: From Ancient Times to the 21st Century", is a must be in anyone interested in the evolution of military communications.

### **Crystal Clear: The Struggle for Reliable Communications Technology in World War II, by Richard J. Thompson Jr.**



Some of the most important technological leaps in the twentieth century occurred during the Second World War II. From radar to nuclear energy important technological discoveries occurred during this period that effected later developments on several domains of civil and military industry. One of these discoveries was the quartz crystals, which proved to be pivotal to the Allied victory-and to post-war development. The author of this book tries to give a thorough history of this invention that provided the U.S. military, for the first time, with reliable communication on the front lines and then went on to become the core of some of the most basic devices of the post-war era, from watches, clocks, and color televisions, to cell phones and computers.



### Airbus raises its estimate of 20-year aviation market

European aircraft manufacturer Airbus issued a slight upward revision Monday to its 20-year forecast for the civil aviation market, which it said should amount to 3.2 trillion dollars by 2029 thanks to activity in Asia.

Airlines are by then projected to have taken delivery of nearly 26,000 new cargo and passenger planes with more than 100 seats.

Airbus last year forecast deliveries of 25,000 planes for a total of 3.1 trillion dollars (2.3 trillion euros) between 2009 and 2028.

The company said demand would be driven by the need for more fuel-efficient aircraft as well as by growth in emerging markets, notably in Asia.

Airbus commercial director John Leahy noted at a press conference that China and India both have expanding middle classes.

Airbus' US rival Boeing has forecast deliveries of 30,900 planes worth 3.590 trillion dollars between now and 2029.

**Source:** 2009 AFP, Agence France-Presse (AFP)

### Russia to build unified air defense base in 2011

MOSCOW, December 14 (RIA Novosti) - Russia is planning to build a unified air defense base in 2011 to protect the country from missiles, the chief of the Russian General Staff said on Tuesday. "The state needs a shield to protect it against attacks from ballistic, medium-range and cruise missiles," Gen. Nikolai Makarov said. Last week Russian President Dmitry Medvedev said the country's missile and air defense systems should be unified before December 2011.

**Source:** Ria Novosti

### Ukraine to draw up new military doctrine in near future

KIEV, December 14 (RIA Novosti) - Ukraine will develop a new national security concept and a new military doctrine in the near future, according to a presidential order published on the president's website. The order brings into force a relevant decision made by the country's National Security and Defense Council in November. The council has ordered that work on a new draft national security concept be concluded and the document be submitted to the president within three weeks. A new draft military doctrine should be ready within three

months since the national security concept has been approved by the president. The Ukrainian cabinet should also approve the state arms development program for 2011-2015 within a month since the new military doctrine has been approved.

**Source:** Ria Novosti

#### **IATA hikes 2010 airline profit forecast to record high**

Top airline industry association IATA on Tuesday raised its forecast for airline profits in 2010 to a record 15.1 billion dollars, from 8.9 billion dollars, as economic conditions improved.

"Our forecast for net post-tax profits in 2010 has been raised to 15.1 billion dollars (11.3 billion euros), up from our previous forecast of 8.9 billion dollars," said Bryan Pearce, chief economist of the International Air Transport Association.

"That is a record in terms of dollars," Pearce said.

**Source:** 2009 AFP, Agence France-Presse (AFP)

#### **India still wants to participate in Sakhalin-3 gas project**

MOSCOW, December 13 (RIA Novosti) - India still wants to participate in Russia's Sakhalin-3 gas project, Jitin Prasada, minister of state of the Indian Ministry Of Petroleum and Natural Gas, said on Monday. "We are interested in participation in the Sakhalin-3 project," Prasada told reporters, adding that Indian officials and Gazprom management would meet on Monday in Moscow to discuss the possibility of India's participation in the project. In July, Viktor Timoshilov, head of Gazprom's eastern projects, said that the company did not plan to invite foreign companies to the Sakhalin-3 project. The project's gas reserves are estimated at nearly 1.4 trillion cubic metres. The project's gas will be supplied to the Sakhalin-Khabarovsk-Vladivostok gas transportation system.

**Source:** Ria Novosti