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Thank you, Daniel Dierickx

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## Five Top-20 Chip Suppliers to show Double-digit Gains in 2016

The top-20 semiconductor companies' sales are forecast to increase by 3% this year, which would be two points higher than IC Insights' current worldwide semiconductor market forecast for 2016. The forecasted top-20 worldwide semiconductor (IC and O S D—optoelectronic, sensor, and discrete) sales ranking for 2016 includes eight suppliers headquartered in the U.S., three in Japan, three in Taiwan, three in Europe, two in South Korea, and one in Singapore, a relatively broad representation of geographic regions.

2016F Top 20 Semiconductor Sales Leaders						
(\$M, Including Foundries)						
2016 Rank	2015 Rank	Company	Headquarters	2015 Sales*	2016F Sales*	2016/2015 Forecast %
1	1	Intel*	U.S.	52,144	56,313	8
2	2	Samsung	South Korea	42,043	43,535	4
3	3	TSMC (1)	Taiwan	26,439	29,324	11
4	5	Qualcomm (2)	U.S.	16,008	15,436	-4
5	6	Broadcom Ltd.* (2)	Singapore	15,183	15,332	1
6	4	SK Hynix	South Korea	16,649	14,234	-15
7	7	Micron	U.S.	14,483	12,842	-11
8	8	TI	U.S.	12,112	12,349	2
9	10	Toshiba	Japan	9,429	10,922	16
10	9	NXP*	Europe	10,563	9,498	-10
11	13	MediaTek (2)	Taiwan	6,699	8,610	29
12	11	Infinition	Europe	6,916	7,343	6
13	12	ST	Europe	6,873	6,944	1
14	17	Apple (2,3)	U.S.	5,531	6,493	17
15	14	Sony	Japan	6,263	6,466	3
16	18	Nvidia (2)	U.S.	4,696	6,340	35
17	16	Renesas	Japan	5,682	5,751	1
18	15	Global Foundries* (1)	U.S.	5,729	5,085	-11
19	19	ON Semi*	U.S.	4,866	4,858	0
20	20	UMC (1)	Taiwan	4,464	4,455	0
Total Including Foundries			-	272,772	282,130	3
Total Without Foundries			-	236,140	243,266	3

(1) Pure-play foundry

(2) Fabless supplier

(3) Custom processors for internal use made by TSMC and Samsung foundry services.

\*2016 and 2015 sales include Intel/Altera, Broadcom/Avago, NXP/Freescale, GlobalFoundries/IBM, and ON Semi/Fairchild sales for all 2015 and 2016.

Source: Companies, IC Insights' Strategic Reviews Database

The top-20 ranking includes three pure-play foundries (TSMC, GlobalFoundries, and UMC) and five fabless companies. In total, the 17 non-foundry companies in the forecasted top 20-ranking are expected to represent 68% of the total \$357.1 billion worldwide semiconductor market this year.

Although, in total, the top-20 2016 semiconductor companies are expected to register a 3% increase, there are five companies that are forecast to display a double-digit 2016 jump in sales (Nvidia, MediaTek, Apple, Toshiba, and TSMC) and four that are expected to register a double-digit decline (SK Hynix, Micron, GlobalFoundries, and NXP).

Nine of the top-20 companies are forecast to have sales of at least \$10.0 billion this year. As shown, it is expected to take about \$4.5 billion in sales just to make it into the 2016 top-20 semiconductor supplier list. Moreover, if Qualcomm's purchase of NXP is completed, as is expected in late 2017, the combined annual semiconductor sales of these two companies will likely be over \$25 billion going forward. Overall, no new entrants are expected to make it into the top-20 ranking in 2016 as compared to the 2015 ranking.

If the three pure-play foundries were excluded from the top-20 ranking, U.S.-based fabless supplier AMD (\$4,238 million), China-based fabless supplier HiSilicon (\$3,762 million), and Japan-based IDM Sharp (\$3,706 million), would have been ranked in the 18th, 19th, and 20th positions, respectively. In August 2016, China-based contract assembler Foxconn bought a controlling interest (66%) in Sharp for \$3.8 billion.

Source: Europe Electronics - VIPress.net.

<http://www.europeelectronics.biz/five-top-20-semiconductor-suppliers-show-double-digit-gains-2016/>

# Artesyn and Hyukshin Collaborate on SIL4 Rail Signaling Solutions

Tempe, Ariz. [18 January, 2017] — Artesyn Embedded Technologies today announced a collaboration with Hyukshin Engineering Co., Ltd, a leading rail integrator in South Korea, for the development of rail signaling solutions based on Artesyn's ControlSafe™ Platform. The two companies have signed a memorandum of understanding (MOU) for broad cooperation on the development of safety integrity level 4 (SIL4) commercial-off-the-shelf (COTS) systems for train control and rail signaling.

Seunghyun Park, marketing director at Hyukshin Engineering, said: "The adoption of the SIL4 safety standard is a global trend in the rail industry. Throughout the 60 years of Hyukshin's history we have been dedicated to serving our end customers with highly safe and reliable solutions without compromise. Artesyn's ControlSafe Platform provides an application-ready, cost-effective solution that can help us substantially accelerate time-to-market for our next generation computer-based interlocking (CBI) systems.

By adopting the platform as a safety computing engine, we do not have to start our development from scratch, and therefore we can focus on the differentiation and value that makes Hyukshin a leading player in the industry. More importantly, we can significantly reduce the costs and risks of the SIL4 system development and certification process, saving potentially millions of dollars and many years."

Linsey Miller, vice president of marketing for Artesyn Embedded Technologies, said: "Artesyn has been providing VME products for Hyukshin's rail signaling solutions for more than 15 years, so we have a solid foundation of mutual understanding and trust. This MOU strengthens our strategic relationship to develop and promote next generation rail safety solutions based on Artesyn ControlSafe technologies. We believe that, as Hyukshin strives to expand its business in both domestic and international markets, the company's leading market position and influence will help both companies gain market traction to capitalize on the fast-growing rail infrastructure market."

## About the Artesyn ControlSafe Platform

Artesyn's ControlSafe Platform is designed to meet rail functional safety, reliability and availability requirements, which makes it ideal for deployment in safety application environments to protect investment in rail infrastructure. The first two platforms in the family, ControlSafe Platform and ControlSafe Expansion Box Platform, have been both certified to SIL4 by TÜV SÜD, one of the most trusted certification bodies worldwide. A shared safety architecture makes it easy to transfer applications between the two and deploy as a common platform. This innovative data lock-step architecture and hardware-based voting mechanism that supports high performance modern processors, and is modular, scalable and designed to seamlessly accommodate additional I/O interfaces as well as new processor architectures that will be required throughout the product life cycle.

MORE: <https://www.artesyn.com/computing/latest-news/release/117/artesyn-and-hyukshin-collaborate-on-sil4>

## About Hyukshin Engineering Co., Ltd

Established in 1955, Hyukshin Engineering Co., Ltd has been a key player in the growth of Korea's electronics and telecommunications industries. Based on a corporate philosophy that encompasses 'respect for human life and dignity', 'technology innovation' and 'faithful works', Hyukshin has led the innovation of rail signaling in the Korean transportation system. In 1997, the company established a corporate affiliated Central Control Research Institute to play a critical role in the development of railway signaling. <http://www.hyukshin.co.kr/>

## About Artesyn Embedded Technologies

Artesyn Embedded Technologies is a global leader in the design and manufacture of highly reliable power conversion and embedded computing solutions for a wide range of industries including communications, computing, medical, military, aerospace and industrial. For more than 40 years, customers have trusted Artesyn to help them accelerate time-to-market and reduce risk with cost-effective advanced network computing and power conversion solutions. Artesyn has over 20,000 employees worldwide across ten engineering centers of excellence, four world-class manufacturing facilities, and global sales and support offices.





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For more information  
[www.adlinktech.com](http://www.adlinktech.com).



**ADLINK**  
TECHNOLOGY INC.

## Enea completes acquisition of Qosmos

STOCKHOLM, Sweden, December 14, 2016 – Enea® today announced the completion of the acquisition of Qosmos, a privately held company with leading positions in IP traffic classification and network intelligence. After approval by the French Ministry of Finance, the acquisition is a step in Enea's strategy of creating a bigger and stronger company, with focus on embedded software for communication and networking.

The total consideration amounts to approximately 52.7 MEUR and is financed through cash and bank loans. Qosmos is estimated to generate sales of approximately 14.2 MEUR in 2016. The acquisition will have limited positive effect on Enea's revenue and earnings for the full year 2016.

Qosmos is a supplier of Network Intelligence software based on Deep Packet Inspection ("DPI") and commands a dominating share of its market. The company's software provides detailed real-time traffic visibility, which is a critical component for applications such as mobile traffic management, cyber security, and network analytics. More than 100 telecom networks worldwide use solutions powered by Qosmos. The strategic complementary acquisition provides a significant and attractive extension of Enea's portfolio, especially in the area of Software Defined Networking (SDN) and Network Function Virtualization (NFV).

"We will be able to help customers identify, classify, and analyze network traffic in real-time, and we will be able to serve and assist them in new areas such as traffic management and network security analytics", said Anders Lidbeck, President and CEO, Enea. "Customers will also find a strong partner and supplier in us as a company, with increased resources, broadened expertise, and expanded geographical presence".

More about Qosmos, see [www.qosmos.com](http://www.qosmos.com).

Read the financial PR from October about the acquisition: <http://www.enea.com/about-us/Press/Press-releases/Press-release/?item=1209756>

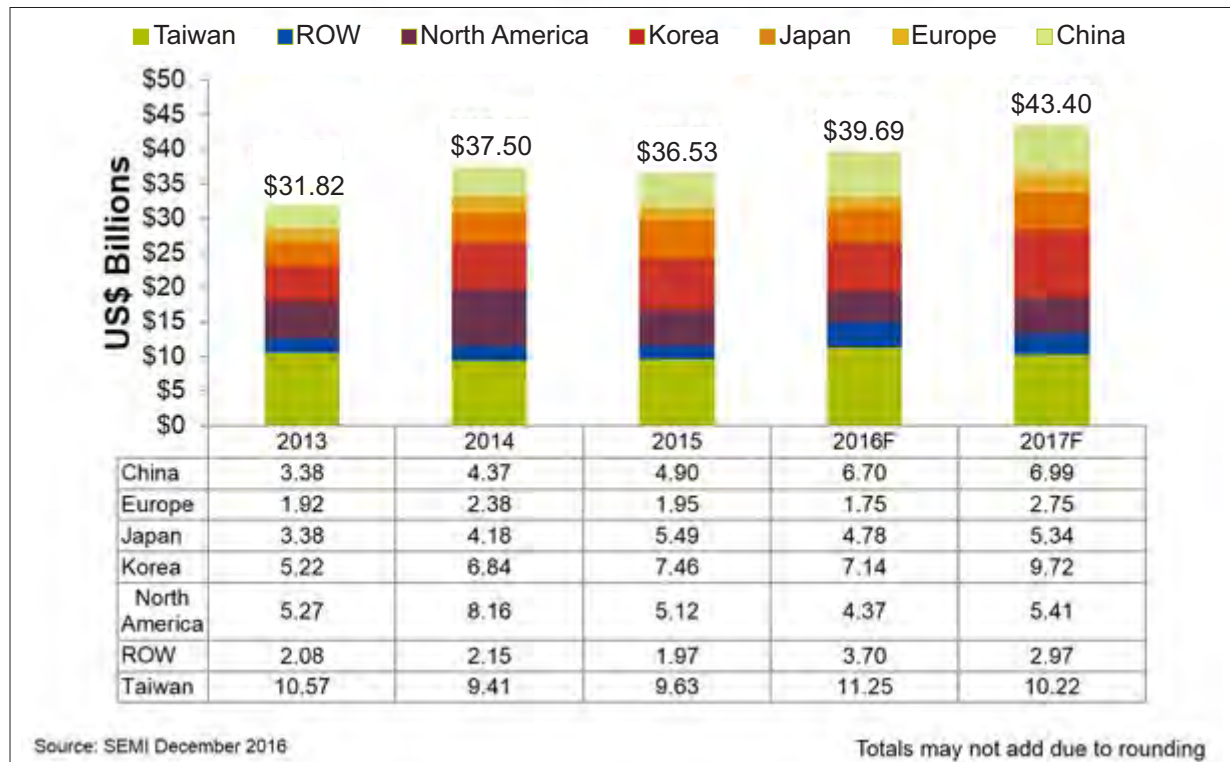
### About Enea

Enea is a global supplier of network software platforms and world class services, with a vision of helping customers develop amazing functions in a connected society. We are committed to working together with customers and leading hardware vendors as a key contributor in the open source community, developing and hardening optimal software solutions. Every day, more than three billion people around the globe rely on our technologies in a wide range of applications in multiple verticals – from Telecom and Automotive, to Medical and Avionics. We have offices in Europe, North America and Asia, and are listed on Nasdaq Stockholm. Discover more at [www.enea.com](http://www.enea.com) and start a conversation at [info@enea.com](mailto:info@enea.com).

**QOSMOS**  
*a division of ENEA*

## Semiconductor Equipment Sales Forecast – \$40 Billion

TOKYO — December 13, 2016 — SEMI, the global industry association representing more than 2,000 companies in the electronics manufacturing supply chain, today reported that worldwide sales of new semiconductor manufacturing equipment are projected to increase 8.7 percent to \$39.7 billion in 2016, according to the SEMI Year-end Forecast, released today at the annual SEMICON Japan exposition. In 2017, another 9.3 percent growth is expected, resulting in a global semiconductor equipment market totaling \$43.4 billion.



**« For 2016, Taiwan and South Korea are projected to remain the largest spending regions, with China joining the top three for the first time. »**

**(Europe last in the row and lower than ROW)**

The SEMI Year-end Forecast predicts that wafer processing equipment, the largest product segment by dollar value, is anticipated to increase 8.2 percent in 2016 to total \$31.2 billion. The assembly and packaging equipment segment is projected to grow by 14.6 percent to \$2.9 billion in 2016 while semiconductor test equipment is forecast to increase by 16.0 percent, to a total of \$3.9 billion this year.

For 2016, Taiwan and South Korea are projected to remain the largest spending regions, with China joining the top three for the first time. Rest of World (essentially Southeast Asia), will lead in growth with 87.7 percent, followed by China at 36.6 percent and Taiwan at 16.8 percent.

SEMI forecasts that in 2017, equipment sales in Europe will climb the most, 51.7 percent, to a total of \$2.8 billion, following a 10.0 percent contraction in 2016. In 2017, Taiwan, Korea and China are forecast to remain the top three markets, with Taiwan maintaining the top spot even with a 9.2 percent decline to total \$10.2 billion. Equipment sales to Korea are forecast at \$9.7 billion, while equipment sales to China are expected to reach \$7.0 billion.

Source: <http://www.semi.org/en/semiconductor-equipment-sales-forecast-40-billion>

# Finmeccanica is now Leonardo

## Leonardo Completing Name Change on New Year's Day

By: Tom Kington, December 30, 2016 (Photo Credit: Stefano Carofei)

ROME — Italy's Leonardo-Finmeccanica will complete a slowly undertaken name change on Jan. 1 by switching to just Leonardo.



The Italian state-controlled group, originally named Finmeccanica, announced in March 2016 it would rename itself Leonardo, but decided to call itself Leonardo-Finmeccanica until the end of 2016 to give the market, particularly export customers, time to get used to the new name.

Following a big billboard advertising campaign across Italy in the holiday season, the firm will now switch to Leonardo on the first day of 2017.

The new name is inspired by the 15th century artist and engineer Leonardo da Vinci, who painted the "Mona Lisa," but also made plans for a prototype helicopter and siege machines.

CEO Mauro Moretti ordered the name change to coincide with Finmeccanica's switch from a holding company overseeing units including **AgustaWestland** and **Alenia Aeronautica** to a single company in which the units have been turned into divisions, promoting synergies and a unified company strategy.

The prefix "Fin-" in Finmeccanica was used by Italian governments to denote state controlled financial companies.

"Finmeccanica is an obsolete name, we will truly change it," Moretti said earlier this year.

Leonardo ended the year with a rare acquisition, taking full control of **Sistemi Dinamici S.p.A**, a Pisa, Italy-based unmanned flight specialist launched in 2006, which is developing the unmanned lightweight helicopter SD-150 Hero program.

On Dec. 30, the company also announced that the prototype of its new M-345 jet trainer had made its first 30-minute flight in Italy.

The aircraft's development has been funded by the Italian government, and it is set to be acquired by the Italian Air Force to prepare trainee pilots to move up to the firm's advanced M-346 trainer, which is already in service in Italy and is now being offered to the US in the T-X program.

The M-345 is based on the firm's planned, but never produced M-311 trainer, albeit with new engines, avionics and some structural aerodynamic changes, and it will replace the MB-339.

The company said the test-flight program would be completed during 2017. "The next tests will check the advanced avionics systems, the engine and the flight envelope expansion, including altitude, speed and manoeuvrability," the firm said.

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### Datasheet and Contact:

<http://www.ecrin.com/datasheets/ECRIN/ONYX-HD.pdf>





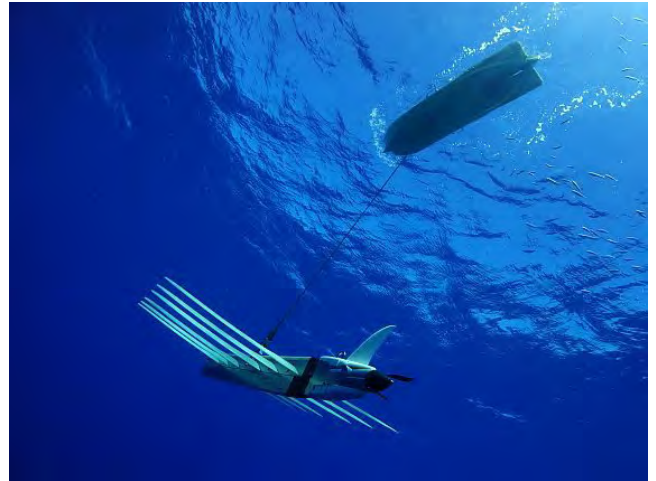
# Boeing to Acquire Liquid Robotics to Enhance Autonomous Seabed-to-Space Information Services

St. Louis, MO, December 6, 2016

## ***Boeing boosts unmanned networking of sensors and communications with Liquid Robotics acquisition***

Boeing [NYSE: BA] has entered into an agreement to acquire Liquid Robotics®, a market leader in autonomous maritime systems and developer of the Wave Glider ocean surface robot, to grow its seabed-to-space autonomous capabilities.

"With Liquid Robotics' innovative technology and Boeing's leading intelligence, surveillance, and reconnaissance solutions, we are helping our customers address maritime challenges in ways that make existing platforms smarter, missions safer and operations more efficient," said Leanne Caret, president and CEO of Boeing Defense, Space & Security.



In September 2014, Boeing and Liquid Robotics entered into a teaming agreement resulting in extensive integration on the Sensor Hosting Autonomous Remote Craft (SHARC®), a version of the Wave Glider. The SHARC, integrated with Boeing's advanced sensors, connects intelligence, surveillance and reconnaissance capabilities ranging from satellites to manned and unmanned aircraft to sub-surface crafts.

Liquid Robotics has designed and manufactured the Wave Glider, the first wave and solar-powered autonomous ocean robot, since its founding in 2007. With more than 1 million nautical miles traveled, the Wave Glider's capabilities address the challenges facing defense, commercial and science customers by making ocean data collection and communications easier, safer and immediate.

"I am proud of our team, culture, and relentless commitment to designing the best ocean surface robot in the maritime industry," said Gary Gysin, president and CEO of Liquid Robotics. "This acquisition allows us to leverage the strengths of one of the world's leading global companies while continuing to push our innovation to new levels."

Liquid Robotics has approximately 100 employees in California and Hawaii. The company will become a subsidiary of Boeing operating under its current business model and reporting to Kory Mathews, vice president of Autonomous Systems for Boeing Defense, Space & Security. The terms of the agreement were not disclosed. Completion of the transaction is subject to satisfaction of customary closing conditions.

For more on Boeing Defense, Space & Security visit [www.boeing.com](http://www.boeing.com).

See the excellent article from: John Keller, Editor, Military & Aerospace Electronics (December 7, 2016)

Source: <https://www.liquid-robotics.com/press-releases/boeing-to-acquire-liquid-robotics-to-enhance-autonomous-seabed-to-space-information-services/>

## **Navy picks four companies to provide cyber and IT education and training**

SAN DIEGO, 13 Dec. 2016. U.S. Navy cyber security experts are asking four companies to provide cyber and information technology (IT) training for the U.S. Marine Corps Forces Cyber Command at Fort Meade, Md.

The four companies will provide cyber and information technology training in support of the Marine Corps Forces Cyber Command, including basic- and intermediate-level courses, opportunity-level courses, opportunity areas from Pipeline 2.2, and other software applications.



The four companies are RavenTek in Chantilly, Va.; Onyx Consulting Services LLC in Columbia, Md.; CSR Group in Crownsville, Md.; and Ultimate Knowledge Corp. in Scottsdale, Ariz.

RavenTek's contract is worth at least \$19.2 million and with options could be as large as \$31.1 million. Onyx's contract is worth at least \$14.6 million and with options could be as large as \$24.1 million. CSR Group's contract is worth at least \$14.2 million and with options could be as large as \$23.1 million. Ultimate Knowledge's contract is worth at least \$21.8 million.

Was published in By John Keller, Editor in Military & Aerospace Electronics. More [Click here](#)



# Qualcomm to Acquire NXP

- Creates semiconductor engine for the connected world –
- Enhances global leadership in integrated semiconductor solutions –
- Expands footprint across key growth opportunities: Automotive, Internet of Things, security and networking –
- Grows serviceable addressable markets by ~40% to \$138 billion in 2020 –
- Significantly accretive to non-GAAP earnings immediately upon close –

**Press release resources** - <https://www.qualcomm.com/news/releases/2016/10/27/qualcomm-acquire-nxp>  
**Investor Deck** - Qualcomm to Acquire NXP - Oct 27, 2016 SAN DIEGO

Qualcomm Incorporated (NASDAQ: QCOM) and NXP Semiconductors N.V. (NASDAQ: NXPI) today announced a definitive agreement, unanimously approved by the boards of directors of both companies, under which Qualcomm will acquire NXP. Pursuant to the agreement, a subsidiary of Qualcomm will commence a tender offer to acquire all of the issued and outstanding common shares of NXP for \$110.00 per share in cash, representing a total enterprise value of approximately \$47 billion.

NXP is a leader in high-performance, mixed-signal semiconductor electronics, with innovative products and solutions and leadership positions in automotive, broad-based microcontrollers, secure identification, network processing and RF power. As a leading semiconductor solutions supplier to the automotive industry, NXP also has leading positions in automotive infotainment, networking and safety systems, with solutions designed into 14 of the top 15 infotainment customers in 2016. NXP has a broad customer base, serving more than 25,000 customers through its direct sales channel and global network of distribution channel partners.

"With innovation and invention at our core, Qualcomm has played a critical role in driving the evolution of the mobile industry. The NXP acquisition accelerates our strategy to extend our leading mobile technology into robust new opportunities, where we will be well positioned to lead by delivering integrated semiconductor solutions at scale," said Steve Mollenkopf, CEO of Qualcomm Incorporated. "By joining Qualcomm's leading SoC capabilities and technology roadmap with NXP's leading industry sales channels and positions in automotive, security and IoT, we will be even better positioned to empower customers and consumers to realize all the benefits of the intelligently connected world."

The combined company is expected to have annual revenues of more than \$30 billion, serviceable addressable markets of \$138 billion in 2020 and leadership positions across mobile, automotive, IoT, security, RF and networking. The transaction has substantial strategic and financial benefits:

Complementary technology leadership in strategically important areas: The transaction combines leadership in general purpose and automotive grade processing, security, automotive safety sensors and RF; enabling more complete system solutions. Mobile: A leader in mobile SoCs, 3G/4G modems and security.

Automotive: A leader in global automotive semiconductors, including ADAS, infotainment, safety systems, body and networking, powertrain and chassis, secure access, telematics and connectivity.

IoT and Security: A leader in broad-based microcontrollers, secure identification, mobile transactions, payment cards and transit; strength in application processors and connectivity systems.

Networking: A leader in network processors for wired and wireless communications and RF sub-segments, Wave-2 11ac/11ad, RF power and BTS systems.

Enhanced go-to-market capabilities to serve our customers: The combination of Qualcomm's and NXP's deep customer and ecosystem relationships and distribution channels enables the ability to deliver leading products and platforms at scale in mobile, automotive, IoT, industrial, security and networking.

Shared track record of innovation and commitment to operational discipline: Both companies have demonstrated a strong commitment to technology leadership and best-in-class product portfolios with focused investments in R&D. Qualcomm and NXP have both taken action to position themselves for profitable growth, while maintaining financial and operational discipline.

Substantial financial benefits: Qualcomm expects the transaction to be significantly accretive to non-GAAP EPS immediately upon close. Qualcomm expects to generate \$500 million of annualized run-rate cost synergies within two years after the transaction closes. The transaction utilizes Qualcomm's strong balance sheet and will be efficiently financed with offshore cash and new debt. The transaction structure allows tax efficient use of offshore cash flow and enables Qualcomm to reduce leverage rapidly.

Mollenkopf continued, "We have taken significant action to build a foundation for profitable growth and the acquisition of NXP is strongly aligned with our strategy. Our companies both have substantial expertise in delivering industry-leading solutions to our global customers, built upon a shared commitment to technology innovation, focused R&D investments and strong financial and operational discipline."

*... to next page*

# Qualcomm to Acquire NXP ... from previous page

"The combination of Qualcomm and NXP will bring together all technologies required to realize our vision of secure connections for the smarter world, combining advanced computing and ubiquitous connectivity with security and high performance mixed-signal solutions including microcontrollers. Jointly we will be able to provide more complete solutions which will allow us to further enhance our leadership positions, and expand the already strong partnerships with our broad customer base, especially in automotive, consumer and industrial IoT and device level security," said Rick Clemmer, NXP Chief Executive Officer. "United in a common strategy, the complementary nature of our technologies and the scale of our portfolios will give us the ability to drive an accelerated level of innovation and value for the whole ecosystem. Such a strong fit will bring opportunities for our employees and customers, as well as provide immediate attractive value for our shareholders, in creating the semiconductor industry powerhouse."

Sir Peter Bonfield, Chairman of NXP's Board of Directors, said, "This is a major step in my ten years' Chairmanship of NXP, and I am very pleased to see that the board of NXP has unanimously approved the proposed transaction and fully supports and recommends the offer for acceptance to NXP shareholders."

## Transaction Details

Under the terms of the definitive agreement, a subsidiary of Qualcomm will commence a tender offer to acquire all of the issued and outstanding shares of NXP for \$110.00 per share in cash.

Qualcomm intends to fund the transaction with cash on hand and new debt. The transaction is structured to enable tax efficient use of offshore cash flow to rapidly reduce leverage. Qualcomm is committed to maintaining its strong investment-grade credit ratings.

The solid combined cash flow profile will support Qualcomm's current dividend and dividend growth. Qualcomm is committed to anti-dilutive repurchases of its common stock as it de-levers its balance sheet to pre-transaction leverage levels. The pro forma cash flow profile provides a strong foundation for long-term capital returns to stockholders.

The tender offer is not subject to any financing condition. The transaction is expected to close by the end of calendar 2017 and is subject to receipt of regulatory approvals in various jurisdictions and other closing conditions. The tender offer is conditioned on the tender of at least 95% of the outstanding ordinary shares of NXP or, if NXP shareholders approve the asset sale contemplated in the purchase agreement, the tender of at least 80% of the outstanding ordinary shares of NXP. An Extraordinary General Meeting of NXP's shareholders will be convened in connection with the offer to adopt, among other things, certain resolutions relating to the transaction.

The offer will be described in more detail in a tender offer statement on Schedule TO to be filed by a subsidiary of Qualcomm and a solicitation/recommendation statement on Schedule 14D-9 to be filed by NXP.

Goldman Sachs & Co. and Evercore served as financial advisors to Qualcomm and provided fairness opinions to the Qualcomm Board. Goldman Sachs & Co. and J.P. Morgan are providing committed debt financing for the transaction. Centerview Partners LLC served as financial advisor and provided a fairness opinion to the Qualcomm Board. Paul, Weiss, Rifkind, Wharton & Garrison LLP; Cravath, Swaine & Moore LLP and Allen & Overy LLP served as legal counsel to Qualcomm. DLA Piper LLP (US) served as legal counsel to the Qualcomm Board.

Catalyst Partners is acting as lead financial advisor to NXP, and Skadden, Arps, Slate, Meagher & Flom LLP and De Brauw Blackstone Westbroek are serving as legal counsel to NXP. Barclays and Credit Suisse are also acting as financial advisor to NXP.

## About Qualcomm

Qualcomm Incorporated (NASDAQ: QCOM) is a world leader in 3G, 4G and next-generation wireless technologies. Qualcomm Incorporated includes Qualcomm's licensing business, QTL, and the vast majority of its patent portfolio. Qualcomm Technologies, Inc., a subsidiary of Qualcomm Incorporated, operates, along with its subsidiaries, substantially all of Qualcomm's engineering, research and development functions, and substantially all of its products and services businesses, including its semiconductor business, QCT. For more than 30 years, Qualcomm ideas and inventions have driven the evolution of digital communications, linking people everywhere more closely to information, entertainment and each other. For more information, visit Qualcomm's website, OnQ blog, Twitter and Facebook pages.

## About NXP

NXP Semiconductors N.V. (NASDAQ:NXPI) enables secure connections and infrastructure for a smarter world, advancing solutions that make lives easier, better and safer. As the world leader in secure connectivity solutions for embedded applications, NXP is driving innovation in the secure connected vehicle, end-to-end security & privacy and smart connected solutions markets. Built on more than 60 years of combined experience and expertise, the company has 44,000 employees in more than 35 countries and posted revenue of \$6.1 billion in 2015. Find out more at [www.nxp.com](http://www.nxp.com).



# Curtiss-Wright Completes Acquisition of Teletronics Technology

## *Leading Supplier of Data Acquisition Equipment for Aerospace & Defense Customers*

CHARLOTTE, N.C. – January 04, 2017 -- (BUSINESS WIRE)-- Curtiss-Wright Corporation (NYSE: CW) today announced that it has completed the acquisition of Teletronics Technology Corporation (TTC) for \$233 million in cash. TTC is a leading designer and manufacturer of high-technology data acquisition and comprehensive flight test instrumentation systems for critical aerospace and defense applications. The acquisition provides increased breadth to Curtiss-Wright's existing data acquisition product portfolio, as well as geographic expansion and the opportunity to leverage TTC's domestic presence and Curtiss-Wright's existing international presence.

The business will operate within Curtiss-Wright's Defense segment and its sales are principally to the aerospace defense market. Further, TTC meets our stated acquisition requirements and is expected to be accretive to Curtiss-Wright's 2017 earnings per share, excluding the effects of purchase accounting.

TTC is a recognized leader in comprehensive and integrated data acquisition technologies through telemetry systems that include data analysis units, sensors, transmitters, receivers, and ground station analysis tools to measure, record, transmit, and analyze aircraft and munitions parameters during test flights. Founded in 1998, TTC employs 225 people and is based in Newtown Pa.

### **About Curtiss-Wright Corporation**

Curtiss-Wright Corporation (NYSE: CW) is a global innovative company that delivers highly engineered, critical function products and services to the commercial, industrial, defense and energy markets. Building on the heritage of Glenn Curtiss and the Wright brothers, Curtiss-Wright has a long tradition of providing reliable solutions through trusted customer relationships. The company employs approximately 8,400 people worldwide. For more information, visit [www.curtisswright.com](http://www.curtisswright.com).

# MACOM Successfully Completes Acquisition of AppliedMicro

LOWELL, Mass., January 26, 2017 – MACOM Technology Solutions Holdings, Inc. (NASDAQ: MTSI) ("MACOM"), a leading supplier of high-performance RF, microwave, millimeterwave, and lightwave semiconductor products, today announced that it has successfully completed its previously announced acquisition of Applied Micro Circuits Corporation (NASDAQ: AMCC) ("AppliedMicro").

John Croteau, MACOM's President and Chief Executive Officer stated, "I am pleased to announce the completion of this transaction. AppliedMicro's leadership in MACsec and 100G to 400G single-Lambda PAM4 positions MACOM as a preferred supplier to major Enterprise and Cloud Data Center providers, many of whom are adopting the technologies this year. MACOM will now be able to support customers with all of the requisite semiconductor content for optical networks—analogue, photonic and mixed signal PHY—from the switch to fiber for long haul, metro, access, backhaul and data centers."

Commenting further Mr. Croteau noted, "With the transaction now closed, MACOM plans to promptly engage with previously identified potential buyers toward a near-term divestment of AppliedMicro's well-positioned Compute business. As previously stated, this portion of the business does not strategically align with our long-term product focus, but we feel confident a successful transaction can be consummated."

### **About MACOM**

MACOM enables a better-connected and safer world by delivering breakthrough semiconductor technologies for optical, wireless and satellite networks that satisfy society's insatiable demand for information.

Today, MACOM powers the infrastructure that millions of lives and livelihoods depend on every minute to communicate, transact business, travel, stay informed and be entertained. Our technology increases the speed and coverage of the mobile Internet and enables fiber optic networks to carry previously unimaginable volumes of traffic to businesses, homes and datacenters.

Keeping us all safe, MACOM technology enables next-generation radars for air traffic control and weather forecasting, as well as mission success on the modern networked battlefield.

MACOM is the partner of choice to the world's leading communications infrastructure, aerospace and defense companies, helping solve their most complex challenges in areas including network capacity, signal coverage, energy efficiency and field reliability, through its best-in-class team and broad portfolio of analogue RF, microwave, millimeterwave, and lightwave semiconductor products.

MACOM is a pillar of the semiconductor industry, thriving for more than 60 years of daring to change the world for the better, through bold technological strokes that deliver true competitive advantage to customers and superior value to investors. MORE: <https://www.apm.com/> - [www.macom.com](http://www.macom.com)

**FULL PR:** [Click Here](#)

# ENEL ACQUIRES US-BASED ENERGY STORAGE SOFTWARE AND PROJECT DEVELOPER DEMAND ENERGY

Enel, via renewables subsidiary EGPNA, has acquired a 100 percent stake in Demand Energy, an intelligent control software provider, project developer and operator specialising in battery storage optimisation

Enel will work with Demand Energy to expand the use of the company's DEN.OS energy management software, which enables real-time optimisation of storage systems

Rome, Andover, January 11th, 2017 – Enel S.p.A. ("Enel"), through its subsidiary Enel Green Power North America, Inc. ("EGPNA"), has acquired a 100 percent stake in Demand Energy Networks, Inc. ("Demand Energy"), a US-based company specialised in intelligent software and energy storage systems.

"Through this transaction we will be able to greatly strengthen our position in the growing battery storage market with a complementary partner and innovator," said Francesco Venturini, Enel's Head of Global Renewable Energies. "By combining our global presence and expertise in systems integration with Demand Energy's software and established product offering, we will expand the development of renewables and storage both in the US and globally, delivering a clean, reliable, high-tech and cost-effective energy solution."

Enel will work with Demand Energy, which has established itself as a leader in the New York City storage market, delivering value to commercial and industrial customers, to expand deployment of the company's Distributed Energy Network Optimization System (DEN.OSTM), an intelligent software controls platform that enables real-time optimisation of energy management and revolutionises the way electricity is generated, stored and consumed.

Demand Energy's DEN.OS provides an end-to-end solution that delivers value across the entire life cycle of a project. The innovative platform and cloud-based analytics are scalable and can address the needs of any power market segment, delivering value across a broad range of storage applications. DEN.OS's platform provides the analytics and control needed to aggregate energy management across multiple facilities, creating an online virtual power plant that operates more efficiently and multiplies savings.

Demand Energy's core experience is in the behind-the-meter storage market. The company has carried out 24 projects since its creation, totalling 3 MW/9 MWh of installed capacity in both the USA and Latin America, and boasts a pipeline in excess of 30 MW/100 MWh.

"Our acquisition by Enel underscores the strategic intersection of renewable energy production, energy storage and an intelligent software controls platform," said Gregg Patterson, Demand Energy President and CEO. "Our DEN.OS energy management system, based on patent-pending controls and economic optimisation technology, facilitates the design, integration and operation of energy assets and services on both sides of the utility meter. We're very pleased to become part of Enel, which will lead to expanded product and service offerings and global market opportunities."

Following the transaction, Enel will provide Demand Energy with access to one of the world's most innovative and both technologically and geographically diversified portfolios of renewable energy projects, which stretches over 24 countries and includes more than 1,000 operational plants. The acquisition directly supports Enel's global business strategy by increasing operational efficiency and enhancing digitisation to drive growth, performance, and flexibility, while creating valuable product offerings for its existing and new customer base.

## About Enel Green Power

Enel Green Power (EGP) is the renewable energy division of Enel Group dedicated to the development and operation of renewables across the world, with a presence in Europe, the Americas, Asia and Africa. EGP is a global leader in the green energy sector with an installed capacity of 36 GW across a generation mix that includes wind, solar, geothermal, biomass and hydropower, and is at the forefront of integrating innovative technologies like storage systems into renewables power plants. EGP operates in North America through EGPNA, a leading owner and operator of renewables facilities with projects operating and under development in 23 US states and two Canadian provinces. EGPNA operates over 100 plants with a managed capacity exceeding 2.8 GW, powered by renewable hydropower, wind, geothermal, and solar energy. For more information, [www.enelgreenpower.com](http://www.enelgreenpower.com)

## About Demand Energy

Demand Energy has developed DEN.OS, which maximises the economic returns of behind-the-meter storage systems alone, or in combination with distributed generation. The company provides a turnkey solution (hardware, software and services) that ties together modelling, design and simulation with installation and operational monitoring, control, and financial optimisation, to deploy storage-plus-DG systems at speed and scale. The DEN.OS software platform was designed as a scalable end-to-end solution that delivers differentiated value across the entire project life cycle, able to support utility-side, behind-the-meter and microgrid projects. For more information, visit [www.demand-energy.com](http://www.demand-energy.com)





## New ATCA Board & System from N.I.



### FPGA Module "ATCA-3671"

- 4 Virtex-7 690T FPGAs with a combined 14,400 DSP slices
- 64 GB onboard DDR3 DRAM
- 4 ATCA IO (AIO) module slots with both analog and high-speed serial IO options
- Up to 1.5 Tbps external connectivity available through PCI Express, SFP+ and QSFP
- Programmable with the LabVIEW FPGA Module or BEEcube Platform Studio software



The ATCA-3671 FPGA Module for ATCA is the highest performance off-the-shelf FPGA module offered by NI. Featuring 4 user-programmable Virtex-7 690T FPGAs with 14,400 DSP slices and 64GB of onboard DDR3 DRAM, the ATCA-3671 is ideal for applications that require significant amounts of real-time signal processing including 5G/wireless algorithm research, prototyping, and field trials.

The ATCA-3671 is an ATCA-compatible module that occupies two slots in an ATCA chassis. There are two Rear Transition Modules (RTM) available for the ATCA-3671: the RTM-3661 provides PCI Express x8 Gen 3 connectivity to each FPGA and eight QSFP ports with aggregate 50 GB/s high-speed serial connectivity, and the RTM-3662 provides 12 QSFP ports and 16 SFP+ ports for expanded serial connectivity.

The ATCA-3671 also features four AIO module slots that can be filled with the AIO modules of the user's choice; a 4 GS/s digitizer module, a 5.6 GS/s signal generator module, and a high-speed serial module that provides additional serial connectivity.

The ATCA-3671 is programmable both through LabVIEW using the LabVIEW FPGA Module and through alternative toolchains using BEEcube Platform Studio software.

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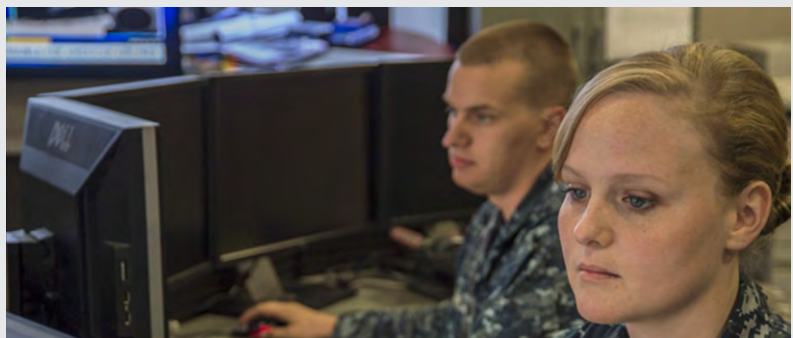
## Four companies awarded Navy network contract

**King Technologies**

**SAIC**

**Engility Corp.**

**Booz Allen Hamilton**



The indefinite delivery, indefinite quantity contract, which includes a three-year base period and two one-year options, covers "shore networks support to include in-service engineering support, design, accreditation, integration, production, sustainment, and life cycle support for non-integrated shore systems, network components and network service solutions for Navy and joint Department of Defense shore units worldwide," according to the DoD contract announcement.

King Technologies received a \$52.5 million award, with a maximum potential value of \$88.6 million. SAIC received a \$49.8 million contract, with a maximum value of \$83.9 million. Engility Corp. was awarded a \$48.7 million contract with a maximum value of \$82.4 million. Booz Allen Hamilton secured a \$46.3 million contract with a maximum value of \$78.5 million.

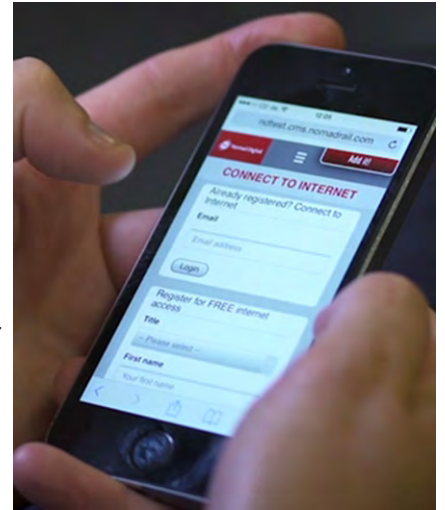
By: Michael Peck, December 6, 2016 (Photo Credit: Defense.gov) **MORE:** [Click Here](#)

# Alstom to acquire Nomad Digital, world's leading provider of connectivity solutions to the railway industry

21-Dec-2016

Alstom has signed a purchase agreement for the acquisition of Nomad Holdings, commercially known as Nomad Digital from Amadeus Capital Partners, SEB Venture Capital and Deutsche Telekom Strategic Investments together with other investors. Nomad Digital employs around 230 people, and is headquartered in Newcastle, with 13 offices worldwide, principally in the UK, Netherlands, Germany, Portugal, Canada, Australia and the United States. Its turnover represents more than GBP 30 million.

Nomad Digital, founded in 2002 in the United Kingdom, is a world leading provider of passenger and fleet connectivity solutions to the railway industry. Nomad Digital's solutions include passenger WiFi, innovative Passenger Information Systems and on-board passenger portals, entertainment and media platforms. In addition, Nomad Digital also provides tele maintenance solutions, including Remote Online Condition Monitoring, Reliability Centred Maintenance, Driver Assist and Power Train products. Nomad Digital's solutions and teams fully leverage the integration and convergence of both Rail & Information & Communications Technologies (ICT) and skills.



This ICT market for Rail is foreseeing a double-digit growth over the coming years, thanks to the high digital integration of trains being demanded by operators and passengers. The continuous evolution of technology and passenger demand offers the opportunity of a recurring business for upgrades, operation, and on-going maintenance services, as well as new services pulled by connectivity, a key domain of the on-going transport digitalisation. Nomad Digital has already established strong relationships with train operating companies, which today represent the most significant part of its business. Nomad Digital has quickly evolved from a pioneer to a leader in its segment, and serves today more than 80 major rail operating companies in more than 40 countries across the world.

"This acquisition illustrates our strategy to offer more and more tailor made solutions to our customers. We are very confident in the success of this new activity as Nomad Digital enables operators to significantly enhance the passenger experience. These new skills and technologies will enable us to accelerate the digitalisation of our offering" declares Pascal Cl  r  , Senior Vice-President for Digital Mobility at Alstom.

Alstom has already been working with Nomad Digital, for example for the installation of WiFi on its Coradia Continental trains in Germany and the New Pendolino trains for SBB in Switzerland. Alstom will allow Nomad Digital to benefit from its global footprint while keeping their current pace of growth and digital culture.

Closing of the transaction should happen in early January 2017. Alstom will begin integrating Nomad Holdings into its own group from then, whilst ensuring that the company operates as a wholly-owned subsidiary, retaining its well-known brand and independent identity.

## Microsoft acquires Simplygon to accelerate innovation in enabling 3D for everyone

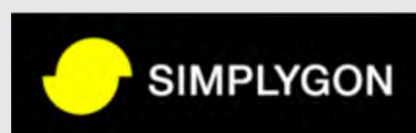
Posted January 17, 2017 By Kudo Tsunoda - Corporate Vice President, Next Gen Experiences, Windows and Devices Group

I am pleased to announce that Microsoft has acquired Simplygon, a premier developer of automatic 3D data-optimization solutions. This acquisition accelerates our 3D For Everyone vision and strategy, which we introduced with the Windows 10 Creators Update at our event this past October in New York.

Simplygon logoSimplygon's technology and talent will strengthen our position in 3D creation, making it easier to capture, create and share in 3D. It builds on and extends our aspirations to empower a new wave of creativity with the Windows 10 Creators Update, Paint 3D and our online creator community at Remix3D.com.

Simplygon was developed by Donya Labs AB, a privately held company based in Sweden. Donya was founded in 2006 with the aim to be the premier developer of automatic 3D data-optimization solutions. Simplygon is a leader in 3D game optimization, dedicated to helping creators and users of 3D data across industries optimize content pipelines and streamline workflows.

The leadership team, led by CEO Matt Connors, founder and CTO Ulrik Lindahl and co-founder Koshi Hamedi, bring a depth of knowledge around 3D creation optimization, and we're excited to welcome the team to Microsoft.





# Siemens-Gamesa merger takes effect

The merger between Siemens Wind Power and Gamesa became effective on 3 April with the registration of the joint venture in the Mercantile Registry of Biscay in Spain.

The first meeting of the board of directors of the combined company will take place on 4 April. The composition of the new board and the senior management team is expected to be announced then.

Global headquarters of the merged company will remain in Zamudio, Spain, as will the onshore offices.

Offshore development will be operated from Hamburg in Germany and Vejle in Denmark.

Siemens owns 59% of the merger's shared capital, with Iberdrola holding 8% and the remainder floating.

"We are already a leader in the renewable energy marketplace, but we have much work ahead of us. Our priorities are clear: delivering on our projects, winning new business and creating a company culture focused on engineering excellence and vigorous cost management. This will enable us to provide benefits to our customers and our many stakeholders." Markus Tacke, CEO



## Key figures of the combined business:

*Pro forma figures December 2016*

- Revenues: €11 bn
- Employees: 27,000
- Installed capacity worldwide: 75 GW
- Order backlog: €21 bn
- Adjusted EBIT: €1 bn
- Countries with installed wind turbines: +90

## Product portfolio and solutions

### Onshore

Our competitive wind turbine technologies cover all wind classes and site conditions. The combined portfolio enables us to fulfil all customer requirements, helping to reduce the cost of energy. United, Siemens Wind Power and Gamesa profit from a leading position in emerging markets, such as China, India and Latin America, and a strong foothold in developed markets like North America or Europe.

### Offshore

The united company leverages Siemens' 25 years of experience and leadership in offshore wind energy. It offers full-scope solutions such as grid-infrastructure and comprehensive service. Our competitive technologies help to minimise risk and optimise return on investment of offshore wind power plants.

### Services

Siemens Wind Power and Gamesa have a proven track record of excellence in operation and maintenance. Together, the company benefits from an increased scale and global reach. We offer adaptive service portfolios that are tailored to our customers' diverse operating models, advanced diagnostics and digitalisation capabilities, as well as customised offshore offerings.

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# US Navy's New Fleet Goal: 355 Ships



By: Christopher P. Cavas, December 16, 2016 (Photo Credit: U.S. Navy)

WASHINGTON – Tossing overboard the budget constraints that have weighed down the US Navy's attempts to grow its fleet, the world's most powerful sea service is embarking on the biggest proposed expansion since the early 1980s, upping its goals from today's 308 ships to a whopping 355 ships – beyond even the incoming Trump administration's stated 350-ship goal.

The new Force Structure Assessment (FSA) provides one more aircraft carrier, 16 more large surface combatants and 18 more attack submarines over the current FSA. The plan also calls for 4 more amphibious warfare ships, 3 more expeditionary support bases and five more support ships. The FSA also restores the Navy's goal of 52 small surface combatants – littoral combat ships (LCS) and their follow-on frigate design.

The new plan does not address increased numbers of aircraft or personnel. Senior Navy leaders are on record as calling for increases in strike fighters – particularly Boeing F/A-18 E and F Super Hornets – and the 2018 budget is expected to request a significant number.

Other Navy sources have indicated the need for more sailors, citing total figures between 340,000 and 350,000. The Navy today has nearly 324,000 uniformed personnel.

The proposed fleet expansion is definitely a shot across the bow aimed at Russia and China, whose naval activities have increased dramatically in recent years.

In the Pacific, China is creating a vastly improved and modern Navy modeled in many ways on the US Navy, and seeking to supplant the US as a stability guarantor in the western Pacific. The US has been shifting its forces from the Atlantic to the Pacific, seeking a 60-40 Pac/Lant split, but Russia's increasing and provocative activity has forced reconsideration of the need to maintain larger naval forces in the European and Mediterranean theaters.

Among the biggest industrial beneficiaries to the new fleet would be shipbuilders Huntington Ingalls Industries (HII), General Dynamics (GD), and one or both of the smaller Fincantieri Marinette Marine and Austal USA yards, along with Raytheon, Lockheed Martin, BAE Systems, Boeing, Northrop Grumman, L3 and power suppliers General Electric and Babcock and Wilcox.

But it could be some time before major increases are realized – it takes years to build a ship, beginning with long-lead items such as nuclear reactors and major propulsion items, before real construction can begin. Even then, the Navy generally needs one or more years of final fitting out and training before a new ship becomes operationally effective.

## **Here is a type-by-type breakdown of the new plan:**

**Aircraft carriers:** Grow the fleet from 11 to 12 ships.

**Large Surface Combatants:** jumps from a total of 88 ships to 104. All ships in this category today, with the exception of the 3-ship Zumwalt class, are Aegis-equipped cruisers and destroyers performing a variety of tasks, including air defense of aircraft carriers and ballistic missile defense.

**Small Surface Combatants:** The total holds stable at 52 ships, consisting of LCSs and frigates.

**Amphibious Warfare Ships:** Grows from 34 ships to 38. These ships – big-deck LHD and LHA amphibious assault ships, LPD amphibious transport docks and LSD dock landing ships, and LXR amphibious ship replacements – meet a lift requirement for the US Marine Corps and are valuable in a wide variety of humanitarian assistance and disaster relief situations.

**Attack Submarine:** Grows from today's 48-ship level to 66. This is perhaps the most ambitious goal in the revised FSA. The demand on the fleet has been exceptional for many years and there is widespread acknowledgement more boats are needed, but the growth impact will be difficult to manage as the industrial base gears up to build new Columbia-class ballistic missile submarines in addition to existing Virginia-class attack subs.

Source: for more details see the article published by Christopher P. Cavas in DefenseNews [Click Here](#)