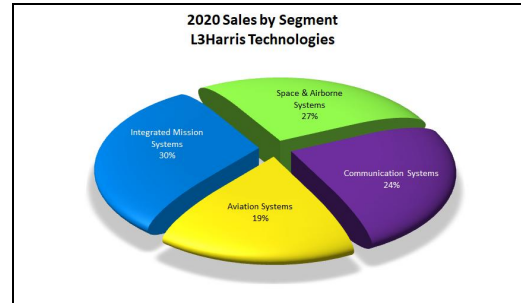


# L3 Harris

## Outlook

- L3Harris technologies weathered the COVID-19 crisis quite well, with sales rising 3 percent to \$18.2 billion in 2020
- L3Harris is continuing to tighten its operations as it seeks to further refine its portfolio following its 2019 merger
- L3Harris arranged to exit military training with the agreement to sell its operations to CAE for \$1.05 billion
- Recent divestitures have reshaped the portfolio, focusing the company on its key markets, particularly C4ISR



## Headquarters

L3Harris Technologies, Inc  
1025 West NASA Blvd  
Melbourne, FL 32919  
Telephone: + 1 (321) 727-9100  
Website: <http://www.l3harris.com/>

In July 2019, Harris Corporation and L3 Technologies successfully merged their operations in an all-stock transaction, creating L3Harris Technologies.

Harris was incorporated in Delaware in 1926 as the successor to three companies founded in the late 1890s.

In 2015, Harris completed its \$4.75 billion acquisition of Exelis, nearly doubling its defense industry presence.

L3 Technologies was formed in April 1997 through the combination of 11 operating divisions formerly owned by Loral Corporation and Lockheed Martin.

The combined L3Harris is now the tenth-largest defense company in the U.S. and a top 10 defense company worldwide.

## Structure and Personnel

William M. Brown  
Executive Chair  
Christopher E. Kubasik  
Vice Chair and Chief Executive Officer  
Todd Gautier  
President, Aviation Systems  
Dana Mehnert  
President, Communication Systems  
Sean Stackley  
President, Integrated Mission Systems  
Edward J. Zoiss  
President, Space & Airborne Systems  
Jesus Malave  
Senior Vice President and Chief Financial Officer

Scott Mikuen  
Senior Vice President, General Counsel and Secretary  
Charles Davis  
Vice President, L3Harris International  
James Gear  
Vice President, Domestic Business Development  
Jim Girard  
Vice President and Chief Human Resources Officer  
Byron Green  
Vice President, Operations  
Tania Hanna  
Vice President, Government Relations  
Ross Niebergall  
Vice President and Chief Technology Officer

## L3 Harris

### Product Area

L3Harris is a Tier I contractor organized into four business segments:

1. Integrated Mission Systems
  - 1.1 ISR
  - 1.2 Maritime
  - 1.3 Electro Optical
2. Space and Airborne Systems
  - 2.1 Space
  - 2.2 Intel & Cyber
  - 2.3 Mission Avionics
  - 2.4 Electronic Warfare
3. Communication Systems
  - 3.1 Tactical Communications
  - 3.2 Broadband Communications
  - 3.3 Integrated Visions Systems
  - 3.4 Public Safety
  - 3.5 Global Communication Solutions
4. Aviation Systems
  - 4.1 Defense Aviation Products
  - 4.2 Commercial Aviation Products
  - 4.3 Commercial and Military Training
  - 4.4 Mission Networks

**Integrated Mission Systems.** Integrated Mission Systems principally is comprised of L3 operating businesses but includes a maritime operating business from Harris' Electronic Systems segment

**ISR.** Develops and maintains multimission ISR and communication systems, including fleet management support services, sensor development, modifications, and periodic depot maintenance for ISR and airborne missions.

**Maritime.** Manufactures and integrates maritime integrated command, control, communications, computers, and cyber ISR (C5ISR) systems for maritime platforms, specializing in signals intelligence and multi-intelligence platforms, unmanned surface and undersea autonomous solutions, power and ship control systems, and other electronic and electrical products and systems.

**Electro Optical.** Produces EO/IR sensors and surveillance and targeting systems and provides modernization and life extension maintenance upgrade and support services for military aircraft.

**Space and Airborne Systems.** This unit is comprised of a mix of L3 and Harris operating businesses, including nearly all the operating businesses from Harris' Space and Intelligence Systems segment and Harris' Electronic Systems segment.

**Space.** Provides intelligence; space protection; geospatial, complete Earth observation; universe exploration; positioning, navigation, and timing (PNT); and environmental solutions for defense, civil, and commercial customers, using advanced sensors, antennas, and payloads as well as ground processing and information analytics. Key programs include System Engineering and Sustainment Integrator (SENSOR), Geostationary Operational Environmental Satellite - Series R (GOES-R), and GPS III.

**Intel & Cyber.** Provides situational awareness optical networks and advanced wireless solutions for classified intelligence and cyber defense.

**Mission Avionics.** Produces avionics sensors, hardened electronics, release systems, data links, and antennas supporting fixed wing and rotary platforms. Key programs include advanced integrated defense electronic warfare systems (AIDEWS), integrated defensive electronic countermeasures (IDECM), counter-radio controlled improvised explosive device technology, and land-based surveillance radar systems.

**Communication Systems.** The division is comprised of a mix of L3 and Harris operating businesses, including the tactical communications and public safety and professional communications operating businesses from Harris' Communication Systems.

**Tactical Communications.** Manufactures tactical radios. Key programs include the PRC-163 2-channel handheld radio, the PRC-158 multichannel manpack radio, the PRC-160 wideband high frequency (HF) manpack radios, and the PRC-117G multiband manpack radio, for which the unit has been providing Mobile User Objective System (MUOS) waveform software upgrades.

**Broadband Communications.** Designs, manufactures, and integrates broadband secured mobile networked communication equipment, including airborne, space, and surface data link terminals, ground stations, and transportable tactical satcom systems used on manned aircraft, unmanned aerial vehicles (UAVs), and naval ships.

**Integrated Visions Solutions.** Produces helmet- and weapon-mounted integrated night vision systems.

**Public Safety.** Provides radios, systems applications, and equipment for critical public safety and professional communications. Systems include wireless communications systems, including digital trunked,

**L3 Harris**

statewide, multiagency systems for public safety communications and large, wide-area, and multistate land mobile radio (LMR) and radio frequency (RF) systems.

**Global Communication Solutions.** Provides satcom terminals and battlefield management networks.

**Aviation Systems.** Aviation Systems is principally comprised of L3 operating businesses. However, it includes the mission networks ATM operating business from Harris' Electronic Systems segment.

**Defense Aviation Products.** Provides precision engagement sensors and systems, small UAVs, antennas and arrays, RF amplifiers, and microwave electronic devices. In addition, this business sector provides combat vehicle engines, transmissions, and GPS receivers for guided projectiles and precision munitions as well as navigation for fire control systems.

**Commercial Aviation Products.** Provides airborne avionics products such as traffic collision avoidance and flight recorders.

**Commercial and Military Training.** Offers commercial and military pilot training and flight and maintenance simulation solutions to commercial airlines, aircraft manufacturers, DoD, and foreign military agencies.

**Mission Networks.** Develops infrastructure communications and networking solutions for ATM for the U.S. Federal Aviation Administration (FAA) and international airspace national service providers. Key programs include the FAA Telecommunications Infrastructure (FTI) program and several major FAA Next Generation Air Transportation System (NextGen) programs to transform and upgrade the National Airspace System (NAS), including the Automatic Dependent Surveillance-Broadcast (ADS-B) program.

## Facilities

The company has approximately 340 locations in the U.S., Europe, Canada, Australia, Asia, the Middle East, and South America. Major locations include the following.

Integrated Mission Systems, 1395 Troutman Blvd, Palm Bay, Florida 32905. Headquarters

L3Harris ISR Systems Greenville, 10001 Jack Finney Blvd, Greenville, TX 75402. Telephone: + 1 (903) 455-3450. The unit provides integration services and modernization of special-purpose fixed- and rotary-wing platforms.

L3Harris WESCAM, 649 North Service Rd West, Burlington, Ontario, Canada L7P 5B9. Telephone: + 1 (905) 633-4000. L3 WESCAM designs and manufactures multispectral and multisensor EO IR imaging and targeting sensor systems.

L3 MAS, 10,000 Helen-Bristol St, Montreal International Airport, Mirabel, Quebec J7N 1H3 Canada. Telephone: + 1 (450) 476-4000. Formerly SPAR, this unit provides aircraft modernization, systems integration, and life-cycle support services. The company's Aircraft Programs segment provides engineering support, depot-level maintenance, and avionics/structural upgrades. The component MRO segment specializes in servicing helicopter dynamics and the electrical, hydraulic, and pneumatic components of several aircraft.

L3Harris Technologies - C5 Integrated Systems, 1 Federal St, Camden, NJ 08103. Telephone: + 1 (856) 338-3000. Formerly known as L3 Communication Systems-East, this unit designs, develops, produces, and

integrates communications systems and network storage equipment for medical, commercial, space, air, ground, and naval applications. It also provides communications software support services to military and related government intelligence markets.

L3Harris Space & Sensors, 7500 Innovation Way, Mason, OH 45040. Telephone: + 1 (513) 573-6100. Formerly Cincinnati Electronics, this facility focuses on infrared detection and space and missile electronics.

L3Harris Ocean Systems, 15825 Roxford St, Sylmar, CA 91342. Telephone: + 1 (818) 367-0111. Ocean Systems supplies acoustic undersea warfare systems for a wide range of platforms, including helicopters, submarines, and surface ships.

Space and Airborne Systems, 1395 Troutman Blvd, Palm Bay, Florida 32905. Headquarters

L3Harris Space and Intelligence Systems, 400 Initiative Dr, Rochester, NY 14606. Telephone: + 1 (585) 269-5600. Formerly Exelis.

L3Harris Electronic Systems, 77 River Rd, Clifton, NJ 07014. Telephone: + 1 (973) 284-0123. Formerly Exelis.

L3Harris Telemetry & RF Products, 9020 Balboa Ave, San Diego, CA 92123. Telephone: + 1 (858) 694-7500. This unit specializes in the design and manufacture of radio frequency components for aircraft, missiles, and space applications.

Night Vision and Communications Solutions, 1919 W Cook Rd, PO Box 3700, Fort Wayne, IN 46801. Telephone: + 1 (219) 451-6000. Formerly Exelis.

## L3 Harris

L3Harris Aviation Products, 1355 Bluegrass Lakes Pkwy, Alpharetta, GA 30004. Telephone: + 1 (770) 752-7000. Display Systems specializes in the design, development, and manufacture of ruggedized display systems. Products include cathode ray tube (CRT) displays, active matrix liquid crystal flat panel displays, and display processor electronics.

L3Harris Communications Systems, 1680 University Ave, Rochester, NY 14610. Telephone: + 1 (585) 244-5830. Headquarters.

L3Harris Communication Systems-West, 640 N 2200 W, Salt Lake City, UT 84116. Telephone: + 1 (801) 594-2000. L3 West produces communications systems for the defense industry for use in intelligence collection, imagery processing, and satellite communications. It also has significant operations in Colorado Springs, CO; San Jose, CA; and Santa Maria, CA. These locations provide network engineering/software integration and test support for military customers.

L3Harris Integrated Land Systems, Insight Technology, 9 Akira Way, Londonderry, NH 03053. Telephone: + 1 (603) 626-4800. Develops and manufactures night vision and electro-optical systems.

Aviation Systems, 2200 Arlington Downs Rd, Arlington, Texas 76011.

L3Harris Avionics Systems, 5353 52nd St SE, Grand Rapids, MI 49512. Telephone: + 1 (616) 949-6600. L3 Avionics Systems designs and manufactures safety systems for business, general aviation, and military aircraft.

L3Harris Randtron Antenna Systems, 130 Constitution Dr, Menlo Park, CA 94025. Telephone: + 1 (650) 326-9500. Randtron offers antennas designed for surveillance; use with high-resolution, ultra-wide frequency bands; detection of low radar cross-section targets; low radar cross-section installations; severe environmental applications; and polarization diversity.

L3Harris Interstate Electronics Corporation, 602 E Vermont Ave, PO Box 3117, Anaheim, CA 92805. Telephone: + 1 (714) 758-0500. IEC supplies test instrumentation and missile tracking systems for the U.S. Navy's Fleet Ballistic Missile weapons systems, including the Trident submarine. The division also offers Global Positioning Systems, ruggedized displays for military and industrial applications, and secure communications equipment and services.

Link Simulation & Training, 2200 Arlington Downs Rd, Arlington, TX 76011. Telephone: + 1 (817) 619-2000. Link supplies simulators, training services, and effective on-demand instruction for military forces, governmental

agencies, educational institutions, and private businesses. *Acquisition by CAE pending mid-2021.*

L3Harris Unmanned Systems, 6900 K Ave, Plano, TX 75074. Telephone: + 1 (469) 568-2376. Manufactures unmanned aircraft, ground control stations, and support equipment.

L3 Electrodynamics Inc (L3 EDI), 3975 McMann Rd, Cincinnati, OH 45245. Telephone: + 1 (513) 943-2000. Electrodynamics manufactures military aircraft data recorders, commercial locomotive data recorders, and integrated display-related components.

L3Harris Narda-MITEQ, 435 Moreland Rd, Hauppauge, NY 11788. Telephone: + 1 (516) 231-1700. This unit offers high-performance microwave components, networks, and instruments to the wireless, industrial, and military communications markets.

Aviation Communication & Surveillance Systems (ACCS), 19810 N 7th Ave, Phoenix, AZ 85027-4400. Telephone: + 1 (623) 445-7000. ACCS, an L3 and Thales company, produces safety avionics systems for commercial and military aviation. ACCS products include the TCAS 2000 and TCAS 1500 traffic alert and collision avoidance systems, a family of Mode S transponders, and the T2CAS combined traffic and terrain collision avoidance system.

L3Harris ESSCO, 90 Nemco Way, Ayer, MA 01432. Telephone: + 1 (978) 568-5100. ESSCO, a September 1998 acquisition, is a major manufacturer of ground-based radomes and precision millimeter-wave antenna systems, and it helped expand L3's satellite and antenna operations.

L3 MAPPS Inc, 8565 Côte-de-Liesse, Montréal, Québec, Canada H4T 1G5. Telephone: + 1 (514) 787-5000. Produces naval handling and visual landing aids systems, control and simulation solutions products and services for the marine, power generation and space and civil sectors.

L3Harris Narda Microwave-West, 107 Woodmere Rd, Folsom, CA 95630. Telephone: + 1 (916) 351-4500. This facility designs and manufactures state-of-the-art space-qualified and wireless components.

L3Harris Fuzing & Ordnance Systems, 3975 McMann Rd, Cincinnati, OH 45245. Telephone: + 1 (513) 943-2000. Comprising business units from two legacy L3 divisions – BT Fuze Products and KDI Precision Products – this unit produces ordnance fuzing products for artillery, mortars, rockets, missiles, and bombs.

L3Harris Security & Detection Systems, 10E Commerce Way, Woburn, MA 01801. Telephone: + 1 (781) 939-3800. This unit produces X-ray security screening systems and metal detectors.

**L3 Harris**

L3Harris Space & Navigation, 450 Clark Dr, Budd Lake, NJ 07828. Telephone: +1 (973) 446-4000. This division's products and capabilities include fiber-optic gyros, ring laser gyros, momentum and reaction wheel

assemblies, control moment gyros, tactical inertial measurement units, position navigation units, and fire control and digital battlefield solutions.

## Corporate Overview

L3Harris Technologies is global aerospace and defense conglomerate that provides advanced defense and commercial technologies across air, land, sea, space, and cyber domains. The company supports government and commercial customers in 130 countries, with its largest customers being various departments and agencies of the U.S. Government and their prime contractors.

### New Products and Services

**NextGen Weather Imagers.** In April 2021, NASA selected L3Harris to develop a concept for the next generation of geostationary weather imagers, which will help advance future severe storm tracking, weather forecasting, climate, and other Earth observations.

L3Harris will develop an imager design as well as conduct technology development and analysis for the U.S. National Oceanic and Atmospheric Administration's (NOAA) Geostationary and Extended Orbits (GEO-XO) satellite system. The GEO-XO mission will eventually replace the agency's current Geostationary Operational Environmental Satellite-R (GOES-R) series of weather satellites, which includes the L3Harris-built primary payload.

The GEO-XO program is scheduled for launch in the early 2030s.

**Viper Shield.** In March 2021, L3Harris was awarded a contract from Lockheed Martin for development of a new advanced electronic warfare system to protect the international F-16 multirole fighter aircraft against emerging radar and electronic threats. The Viper Shield is an all-digital electronic warfare (EW) suite custom designed to be baselined on advanced F-16 Block 70/72 aircraft. The baseline version is integrated into the aircraft fuselage, saving space for additional capability, such as a fuel pod that could be attached externally to increase mission range, the company said.

**FFG Systems Integration.** In February 2021, Fincantieri Marinette Marine awarded L3Harris a contract for the shipboard integration and production of major subsystems on board the U.S. Navy's guided-missile frigate FFG 62. L3Harris is prepared to support the Navy's plans to build at least 10 ships. The value of the L3Harris program could exceed \$300 million if all design, development, and production options are awarded.

The FFG is a new class of multimission guided-missile frigates for the U.S. Navy. The ships are planned to be a follow-on to the Littoral Combat Ship.

In April 2020, Fincantieri's FREMM design was selected as the winner with an initial \$795.1 million detailed design and construction contract. Construction will take place at Fincantieri Marinette Marine in Wisconsin.

**CMAISR Project.** In November 2020, L3Harris awarded a firm-fixed-price contract to missionize three new King Air 350ER aircraft for the Canadian manned airborne intelligence, surveillance, and reconnaissance (CMAISR) project. The aircraft will be delivered to the Canadian Department of National Defence (DND) as a Foreign Military Sale managed by the U.S. Army. The aircraft will feature a suite of L3Harris systems, including full-motion video sensors, a mission management system, and communication datalinks. Modification will include sensors integration, secure communications, and navigation systems as well as pilot, operator, and maintenance training. L3Harris will complete the modifications at its facility in Greenville, Texas, supported by the company's facility in Mirabel (Quebec), Canada. Contract value was not announced.

**ENVG-B.** In October 2020, the U.S. Army selected L3Harris Technologies' Enhanced Night Vision Goggle – Binocular (ENVG-B). L3Harris received an initial multimillion-dollar Other Transaction Authority (OTA) award from the U.S. Army for the ENVG-B Program of Record, which has a total value of \$442 million. L3Harris and Elbit Systems both received initial funding under this OTA.

**RASISR.** In September 2020, L3Harris introduced a new technology solution to enhance ISR capability to aircraft previously only available through major airplane modifications. RASISR (Rapid, Adaptable, Smart, Intelligence, Surveillance, and Reconnaissance) is the new universal signals intelligence (SIGINT) pod. According to the company, RASISR is the only pod with the capacity to host L3Harris' full-spectrum SIGINT capability and other high-performance sensors for multiple platform types, including high-speed aircraft and business jets. The new pod also enables increased ISR capacity and agility by adding sensor capability to non-ISR platforms such as transport, tanker, and maritime aircraft.

## L3 Harris

**Medium Unmanned Surface Vehicle.** In August 2020, L3Harris Technologies received a contract from the U.S. Navy for the Medium Unmanned Surface Vehicle (MUSV) program. This is the Navy's first program for an unmanned surface vehicle to support the Navy's Distributed Maritime Operations strategy. The \$35 million initial award is part of a \$281 million program that includes a prototype and options for a total of nine MUSVs. L3Harris will integrate the company's ASView autonomy technology into a purpose-built 195-foot commercially derived vehicle. The MUSV will provide intelligence, surveillance, and reconnaissance to the fleet while maneuvering autonomously and complying with international Collision Regulations, even in operational environments.

L3Harris will be the systems integrator and provide the mission autonomy and perception technology as the prime contractor on the program. The program team includes Gibbs & Cox and Incat Crowther, which will provide the ship design. Swiftships will complete the construction of the vehicle.

**Iver4 580 UUV.** In June 2020, L3Harris Technologies unveiled its new man-portable Iver4 580 unmanned undersea vehicle (UUV). The new Iver4 580 is the second vehicle in the Iver4 family of next-generation UUVs to address a wide variety of customer missions, including survey; multidomain intelligence, surveillance, and reconnaissance; anti-submarine warfare; seabed warfare; and mine warfare.

**A3M.** In April 2020, the U.S. Space Force's Space and Missile Systems Center (SMC) awarded L3Harris a five-year, \$500 million ceiling, indefinite delivery/indefinite quantity (IDIQ) contract — with an initial delivery order of \$30.6 million — for the Air Force and Army Anti-jam Modem (A3M). A3M provides the Department of the Air Force and Army with a secure, wideband, anti-jam satellite communications terminal modem for tactical satellite communication operations. L3Harris will collaborate with SMC for the design, development, fabrication, integration, certification, and testing of Block 1 modems for use in the Air Force Ground Multiband Terminal and the Army Satellite Transportable Terminal. The jam-resistant modems support SMC's Protected Tactical Waveform technology, an anti-jam capability operating on military satellite communication terminals through the Wideband Global Satcom constellation.

**MOSSAIC.** In April 2020, L3Harris Technologies was awarded a \$23 million contract to modernize and sustain critical space infrastructure used by the military to keep track of activities and objects in space. The current estimated contract value with the U.S. Space Force Space and Missile Systems Center is \$1.2 billion over

10 years. Under the Maintenance of Space Situational Awareness Integrated Capabilities (MOSSAIC) contract, L3Harris will provide sustainment services for current and future ground-based space domain awareness sensors and space battle management command and control capabilities. MOSSAIC is a follow-on program to the Systems Engineering and Sustainment Integrator program, which L3Harris won in 2002.

**Smallsat Perimeter Truss.** In March 2020, L3Harris introduced a new small satellite reflector antenna that will help decrease the size, weight, and overall time to produce smallsats. Lighter and more compact than legacy designs, the new Smallsat Perimeter Truss (SPT) leverages L3Harris' advanced Perimeter Truss design while optimizing its mass to make the unit lighter and smaller to package onto small satellites. Offered in diameters up to four meters and specifically designed for use on smallsat platforms, the Ka-band SPT is one third the size and 50 percent the weight of previous designs. When stowed, the reflector is about the size of a commercial office fire extinguisher.

**USAF AI Contract.** In February 2020, the Air Force Life Cycle Management Center awarded L3Harris a multimillion-dollar contract to develop a software platform that will make it easier for analysts to use artificial intelligence (AI) to identify objects in large data sets. The U.S. military and intelligence community are inundated with massive amounts of data generated by remote sensing systems. Automated searches using algorithms that can identify preloaded images of objects makes pinpointing them easier. However, in order to train these algorithms, real images are often unavailable because they are either rare or do not exist. The L3Harris tool creates sample images used to train search algorithms to identify hard-to-find objects in the data, which will help make it easier for the military and intelligence community to adopt artificial intelligence.

### Plant Expansion/Organization Update

**R&D Investment.** In December 2018, Harris announced plans to invest more than \$125 million in internal research and development (R&D) in Florida. Florida-based R&D activities will take place primarily at the company's Central Florida locations and will focus on areas such as electronic warfare, robotics, avionics, and small satellites.

**Arlington Expansion.** In October 2018, L3 expanded its L3 Arlington Training Center facility in Arlington, Texas. The multipurpose training center provides simulation and instruction for both military and commercial pilots. The new multipurpose training center expansion adds approximately 40,000 square

## L3 Harris

feet, more than doubling the size of the high bay facility.

**L3 Commercial Aviation Formed.** In July 2018, L3 Technologies launched L3 Commercial Aviation, which brings together key components of L3's commercial aviation offerings. The new bundle of offerings combines L3's full suite of services in commercial aviation, including the development and management of on-aircraft avionics, integrated security solutions, and complete pilot training offerings.

**London Training Center.** In July 2018, L3 announced it was investing more than \$100 million in its London Training Center, supporting London Gatwick as the epicenter of its worldwide commercial pilot training operations. When operational, the London Training Center will include eight L3 RealitySeven FFS, four high-fidelity L3 Flight Training Devices, eight Flat Panel Trainers, and eight classrooms and briefing rooms as well as the production facility.

**L3 Link Expansion.** In January 2018, L3 Technologies broke ground on an expansion of its Link Training & Simulation multipurpose pilot training center facility in Arlington, Texas. Under this plan, L3 will add approximately 40,000 square feet, more than doubling the size of the high bay site at L3 Link's headquarters. The training center provides simulation and instruction tools for both military and commercial pilots.

### Mergers/Acquisitions/Divestitures

**CAE Buys Military Training Unit.** In March 2021, L3Harris signed definitive agreement to sell its Military Training business to CAE for \$1.05 billion in cash. The L3Harris Military Training business includes Link Simulation & Training, Doss Aviation, and AMI. L3Harris Link is a provider of military training solutions in the United States; Doss Aviation is the provider of initial flight training to the United States Air Force (USAF); and AMI is a design and manufacturing facility for simulator hardware.

Under CAE, the L3Harris Military Training business will operate under CAE USA, headquartered in Tampa, Florida.

L3Harris Military Training is currently involved in several key programs, including the USAF Simulators Common Architecture Requirements and Standards (SCARS) program, USAF F-16 Simulators Training Program (STP), U.S. Navy/Marine Corps F/A-18 aircrew training systems, USAF Ground Based Strategic Deterrent (GBSD) training and USAF B-2 training system. The unit had annual revenues of approximately \$500 million in 2020 and employed 1,600.

The deal was completed in July 2021.

**RENK Acquires Combat Propulsion Systems.** In March 2021, Germany's RENK AG agreed to acquire L3Harris' Combat Propulsion Systems and Magnet-Motor GmbH businesses for about \$400 million in cash. Combat Propulsion Systems, based in the U.S., supplies transmissions and engines, such as the AVDS-1790 series, for armored vehicles in the U.S. and international markets. Magnet-Motor develops and designs high-performance electric power supplies and hybrid drive systems for military applications and is located in Starnberg, Germany. The acquisition is expected to close in the second half of 2021.

**EOTech Sold.** In July 2020, L3Harris Technologies completed the sale of its EOTech business to American Holoptics, an affiliate of Koucar Management. The unit, with annual revenue of approximately \$60 million, manufactures holographic sighting systems, magnified field optics, and accessories for military, law enforcement, and commercial markets around the world. The deal was first announced in March 2020. Terms were not announced.

**Leidos Buys Airport Security Business.** In May 2020, L3Harris completed the sale of its airport security and automation business to Leidos for \$1 billion. With annual revenues of approximately \$500 million, L3Harris' Security & Detection Systems and MacDonald Humfrey Automation solutions are used by the aviation and transportation industries, regulatory and customs authorities, government and law enforcement agencies, and commercial and other high-security facilities. The deal was first announced in February 2020.

**Elbit Buys Harris Night Vision.** In October 2019, L3Harris completed the sale of the Harris Night Vision business to Elbit Systems of America for \$350 million in cash. L3Harris divested the business as part of the regulatory process relating to the merger of Harris Corporation and L3 Technologies in June 2019. L3Harris retained the legacy L3 Warrior Mission Solutions business that develops and manufactures night vision and electro-optical systems and components.

**Harris and L3 Technologies Merge.** In July 2019, Harris and L3 Technologies successfully completed their all-stock merger forming L3Harris Technologies, Inc. The combined company is the sixth-largest defense company in the U.S. and a top 10 defense company globally, with approximately \$17 billion in revenue and 50,000 employees. The combined company is structured around four segments: Integrated Mission Systems, Space and Airborne Systems, Communication Systems, and Aviation Systems.

## L3 Harris

L3Harris Technologies is headquartered at the former Harris HQ in Melbourne, Florida. The combined company's board of directors will have 12 members, consisting of six directors from each company. For the first two years, William M. Brown will serve as chairman and chief executive officer, and Christopher E. Kubasik will serve as vice chairman, president, and chief operating officer. For the third year, Brown will transition to executive chairman and Kubasik to chief executive officer. After that, Kubasik will become chairman and chief executive officer.

Plans for the merger were originally announced in October 2018. As part of the anti-trust regulatory review, the new company had to divest Harris Night Vision, which it sold to Elbit Systems (see entry above).

**ASV Global Acquired.** In September 2018, L3 acquired ASV Global, a producer of unmanned surface vessel (USV) and autonomous vessel control systems. The new company now operates as L3Harris ASV. Based in Louisiana and the United Kingdom, L3Harris ASV delivers surface vessels in a range of sizes – currently from 10 to 42 feet – with proprietary software and control systems. Terms were not announced.

Website: <https://www.asvglobal.com/>

**Cybersecurity Acquisitions.** In August 2018, L3 completed its acquisition of Azimuth Security and Linchpin Labs, two information security businesses, for about \$200 million. The acquired companies now operate under L3's ISR Systems business segment as L3 Trenchant.

**Applied Defense Solutions Acquired.** In July 2018, L3 Technologies acquired Applied Defense Solutions (ADS), an aerospace engineering, software development, and space situational awareness company for \$50 million. The business – which is headquartered in Columbia, Maryland, with offices in Herndon, Virginia, and Colorado Springs, Colorado – will be renamed L3 ADS. It provides the intelligence community, DoD, NASA, and other customers with space systems mission planning, space exploration, and satellite operations, protection, and resiliency.

**Latitude Engineering Acquired.** In June 2018, L3 Technologies bought hybrid quadrotor unmanned aircraft maker Latitude Engineering for \$15 million. Latitude, based in Arizona, has developed a hybrid quadrotor technology that enables vertical takeoff and landing (VTOL) of its UAV system.

**Vertex Aerospace Sold.** In June 2018, L3 Technologies completed the sale of its Vertex Aerospace businesses to American Industrial Partners for \$540 million in cash, subject to customary adjustments. The sale included the Crestview

Aerospace and TCS business units, which were part of L3's Aerospace Systems business segment. Vertex Aerospace provides aviation logistics services, supply chain management, and maintenance, repair, and overhaul services. Crestview Aerospace provides select rotary aircraft component fabrication and assembly, and TCS provides select engineering services and logistics support.

**Doss Aviation Acquired.** In September 2017, L3 Technologies acquired Doss Aviation Inc for an undisclosed amount. Doss Aviation generated approximately \$50 million in annual sales for 2017. Based in Colorado Springs, Colorado, Doss Aviation is the sole provider of initial flight training (ab initio) for U.S. Air Force pilots and was recently authorized to train international military pilots. Doss owns and operates a full-service, turnkey training facility in Pueblo, Colorado, where it offers curriculum coursework and flight training for both fixed-wing and unmanned aircraft pilots and weapons officers. The business was renamed L3 Doss and has been integrated into L3's Electronic Systems business segment.

**Adaptive Methods Acquired.** In September 2017, L3 Technologies acquired Adaptive Methods Inc for an undisclosed amount. Based in Centreville, Virginia, Adaptive Methods is a systems engineering company that delivers undersea warfare (USW) and anti-submarine warfare (ASW) capabilities for U.S. military customers. The company is also developing autonomy and sensor payload solutions for use by unmanned undersea vehicles (UUVs). The business was renamed L3 Adaptive Methods and has been integrated into L3's Sensor Systems business segment.

**Open Water Power Acquired.** In May 2017, L3 Technologies acquired Open Water Power Inc for an undisclosed amount. Based in Somerville, Massachusetts, Open Water Power is developing safe and high energy density undersea power generation technologies for use by unmanned undersea vehicles (UUVs) and other maritime platforms. The business was renamed L3 Open Water Power and has been integrated into L3's Sensor Systems business segment.

**Government IT Services Sold.** In April 2017, Harris completed the divestiture its government information technology (IT) business to an affiliate of Veritas Capital Management in a deal valued at \$646 million. The business, which was part of the former Critical Networks segment, provides IT and engineering managed services to U.S. government agencies, including supporting NASA's Space Communications Network and Deep Space Network programs. Other operations, including the air traffic management business and the Pacific Missile Range Facility program, were integrated into Harris' Electronic



## L3 Harris

Systems unit. The sale was first announced in January 2017.

**OceanServer Technology Acquired.** In March 2017, L3 Technologies acquired OceanServer Technology Inc for an undisclosed amount. Based in Fall River, Massachusetts, OceanServer Technology develops and manufactures autonomous, lightweight unmanned undersea vehicles (UUVs). The business was renamed L3 OceanServer and has been integrated into the company's Sensor Systems segment.

**Coleman Aerospace Sold.** In February 2017, Aerojet Rocketdyne acquired Coleman Aerospace from L3 Technologies for \$15 million. Coleman provides a variety of suborbital launch vehicles, payloads, and launch services. The operation has been renamed Aerojet Rocketdyne Coleman Aerospace.

**Implant Sciences Acquired.** In January 2017, L3 Technologies completed its acquisition of the explosives trace detection (ETD) business of Implant Sciences Corporation for \$117.5 million. L3 acquired the worldwide rights to the QS-B220 desktop and the QS-H150 handheld ETD systems as well as all other product and technology assets of Implant Sciences. L3 integrated this business into its Security & Detection Systems division within the Electronic Systems business segment. The purchase was first announced in October 2016.

### Teaming/Competition/Joint Ventures

**ABMS.** In June 2020, the U.S. Air Force awarded development contracts to 28 vendors for its Advanced Battle Management System, which could be worth \$950 million over five years. The ABMS program is the Air Force's distributed concept for multidomain battle management command and control. It was born out of the termination of the E-8C Joint Surveillance and Target Attack Radar System (JSTARS) aircraft.

The 28 vendors included in the contract are Alion Science and Technology, Apogee Research, World Wide Technology, BAE Systems, Boeing Defense Systems, Borsetta, CACI, Chooch Intelligence Technologies, Collins Aerospace Co, Dell Technologies, Fregata Systems, General Dynamics, Hellebore Consulting Group, Honeywell Aerospace, Immersive Wisdom, L3Harris, Lockheed Martin, Northrop Grumman, Palantir, Parsons Government Services, Persistent Systems, Raytheon Technologies, Securboron, Silvus Technologies, Simple Sense, Solid State Scientific, Viasat, and Wind Talker Innovations.

The indefinite delivery/indefinite quantity contracts allow the vendors to compete for individual task orders through May 28, 2025.

**ACSS.** In April 2001, L3 and Thales Avionics, a wholly owned subsidiary of Thales specializing in avionics and aircraft cabin electronics, formed a joint venture company to operate the assets of L3's Aviation Communication & Surveillance Systems. Under the terms of the agreement, Thales Avionics purchased a 30 percent interest for approximately \$72 million in cash. L3 owns 70 percent of the joint venture and manages it. ACSS, which operates as L3Harris Avionics, provides communications and surveillance avionics systems and services for the global aviation marketplace. The enterprise is located in Phoenix, Arizona, with marketing and support personnel stationed around the world.

Website: <http://www.acss.com>

**Airbus.** In November 2014, Harris (then Exelis) signed a teaming agreement with Airbus to provide advanced missile warning capabilities for U.S. and international F-16 Fighting Falcon aircraft. Capabilities include lightweight protection against short-range air defense missiles and man-portable air defense systems. Under the agreement, Harris became the lead U.S. contractor for the AAR-60(V)2 Missile Launch Detection System for Fighters. MILDS-F, an Airbus Defence and Space system, is optimized for installation on Terma's PIDS+ (Pylon Integrated Dispenser System Plus). The company agreed to provide maintenance and sustainment for all U.S. customer requirements for MILDS-F as well as for future FMS program opportunities. The company also assumed responsibility for the manufacture of system components in the United States at its facility in Clifton, New Jersey.

**Air Launch Effects.** The Air Launched Effects (ALE) system is an Army program to develop a UAV that can operate in contested airspace. The ALE is a family of systems consisting of an air vehicle, one or multiple payloads, mission system applications, and associated support equipment. The U.S. Army issued 10 ALE project agreements on August 24, 2020. The value of these projects is \$29.8 million. The projects involve work on different ALE segments:

- Air Vehicle contractors – Northrop Grumman, Raytheon, and Area-I.
- Mission System contractors – L3Harris, Collins Aerospace, and Aurora Flight Sciences.
- Payload contractors – Leonardo, Technology Service Corp (TSC), Raytheon, and Northrop Grumman.

The U.S. Army could select single contractors for each segment around the end of 2021 or in early 2022.

## L3 Harris

**Air Tractor.** In May 2021, L3Harris and Air Tractor teamed to produce the AT-802U Sky Warden, a production-ready aircraft designed for airborne intelligence, surveillance, and reconnaissance (ISR) and other missions in combat environments. Sky Warden is based on Air Tractor AT-802 and features L3Harris' family of communications, sensors, and airborne ISR solutions.

**BAE Systems.** In February 2018, L3 Technologies announced it will support the BAE Systems Power and Propulsion Team by providing the Integrated Platform Management System (IPMS) for the upcoming Royal Australian Navy (RAN) SEA5000 program pursuit. L3 was selected to provide the IPMS, as well as Controls and Instrumentation (C&I), for the nine Type 26 Global Combat Ships proposed for the SEA5000 program. In June 2018, BAE Systems was selected as the preferred tenderer for the SEA 5000 program to deliver nine Future Frigates for the Royal Australian Navy. The program is valued at AUD35 billion (approximately \$27.4 billion).

**Boeing.** In September 2016, Harris and Boeing began collaborating on next-generation avionics technology for current and future military aircraft. The companies are working to create advanced core mission processing architectures. The mission processor manages many of an aircraft's critical capabilities, including communications, sensors, navigation, and displays. Harris will produce the collaborative design for this common processing hardware that, when integrated with Boeing Secure Computing Solution hardware, Boeing Phantom Fusion mission software, and a state-of-the-art multilevel communication network, will help set the standard in modern mission computing.

**Canada's Combat Ship Team.** In February 2019, Canada signed a design contract for the Type 26 for Canadian Surface Combatant program. Canada's Combat Ship Team is led by Lockheed Martin Canada and includes BAE Systems, CAE, L3 Technologies, MDA, and Ultra Electronics Maritime Systems. The frigates will be built at Irving Shipbuilding in Halifax.

The award follows a three-month negotiation process that started in October, when the Type 26 frigate was selected as Canada's preferred option in the surface combatant competition. Competitors included the Dutch De Zeven Provinciën class frigate-based design proposed by Alion Canada and Damen Group and the Spanish F-105 frigate design offered by Navantia.

The initial design contract is valued at CAD185 million (\$139 million); the value will increase as design progresses. The program as a whole is valued at around CAD60 billion (\$45 billion) for the design and construction of 15 frigates.

L3 Technologies will be providing the Integrated Platform Management System, Integrated Communication Systems, electro-optical infrared (EO/IR) sensors, weapons stowage and torpedo handling systems, and helicopter hangar doors. The program will replace Iroquois and Halifax class warships beginning in the early 2020s.

Website: <http://www.canadacombatshipsteam.com>

**Counter Communication System.** In March 2020, the U.S. Space Force (USSF) accepted its Counter Communications System (CCS) Block 10.2 system, which is designed to quickly disrupt enemy satellite communications. The system is considered the first offensive weapon system for the nascent USSF. L3Harris originally received a contract for the CCS Block 10.2 upgrade in 2014. The CCS was first introduced in 2004.

**exactEarth.** In June 2015, Harris and exactEarth formed a strategic alliance to offer new advanced data services that will help track maritime vessels. According to Harris, the automatic identification system (AIS) services will provide constant, real-time global coverage for the first time, enabling customers to reliably track the location of vessels anywhere in the world. The services take advantage of exactEarth's signal de-collision detection technology and Harris' expertise in satellite-hosted payloads, advanced radio frequency communications, and satellite antenna solutions. The services are made possible by a sensor based on Harris' AppSTAR reconfigurable payload technology that is hosted on the Iridium NEXT satellite constellation.

**Future Attack Reconnaissance Aircraft.** Part of the Future Vertical Lift Capability Set 1 effort, the FARA program aims to replace U.S. Army OH-58D scout helicopters currently in service. In April 2019, the U.S. Army awarded five initial design contracts to the AVX/L3 team, Bell, Boeing, Karem Aircraft, and Sikorsky. Three other proposals that did not meet minimum mandatory requirements were rejected. Under the Army's aggressive schedule, the winning design will enter low-rate production in 2028.

In March 2020, the Army selected two contractors to develop competitive prototypes, Bell and Sikorsky. Bell is offering the Bell 360 Invictus, which is based on some of the technologies developed for its 525 Relentless program. Sikorsky is offering its Raider X, a compound coaxial helicopter based on research and testing of its high-speed X2 technology demonstrator and S-97 Raider test aircraft. Flight tests are expected to begin in late 2022 and run through 2023. The engineering and manufacturing development phase will follow in FY24.

## L3 Harris

**Team Invictus Formed.** In June 2020, Bell announced nine partners for Team Invictus. The companies are producing the Bell 360 Invictus prototype submission under the FARA effort. Members include Astronics Corporation, Collins Aerospace, GE Aviation, ITT-Enidine, L3Harris Technologies, Parker Lord, Mecaer Aviation Group, Moog, and TRU Simulation + Training.

L3Harris is providing the WESCAM MX-15D, a multisensor, multispectral imaging and targeting camera for the Invictus.

Website: <https://www.bellflight.com/products/bell-360>

### **Future Tactical Unmanned Aerial System.**

FTUAS is a U.S. Army competition to develop a new tactical scouting UAS to replace Textron Systems RQ-7B Shadow drones currently in service. Eleven candidates participated in a fly-off in December 2018 and January 2019. Four participants were selected to provide prototypes for further testing, which took place in March 2021. Participants included Arcturus UAV with the Jump 20; a team of Martin UAV and Northrop Grumman proposing the V-Bat UAS; L3Harris offering the FVR-90; and Textron AAI Corporation offering the Aerosonde Hybrid Quad (HQ).

The Army has not set a date for a FTUAS acquisition competition, as it is currently defining the project's requirements.

### **Hypersonic and Ballistic Tracking Space Sensor (HBTSS).**

In October 2019, the Missile Defense Agency awarded Northrop Grumman, Raytheon Technologies, Leidos, and L3Harris contracts for the Hypersonic and Ballistic Tracking Space Sensor (HBTSS) program. Each contractor received a \$20 million contract to design a prototype sensor payload. The program, previously known as the Space Sensor Layer, aims to develop space-based sensors that can track hypersonic and ballistic missiles.

In January 2021, L3Harris moved into the demonstration phase when it was awarded a \$121 million U.S. Missile Defense Agency contract to build space flight hardware to demonstrate the company's solution for the HBTSS program. Northrop Grumman also advanced to the next phase as Leidos and Raytheon were eliminated from the competition.

**Israel Aerospace Industries.** In May 2018, L3 Technologies' L3 MAS subsidiary teamed with IAI to form Team Artemis to offer the Artemis Unmanned Aerial System (UAS), based on IAI's Heron TP, for the Royal Canadian Air Force's (RCAF) Remotely Piloted Aircraft System (RPAS) program. L3 MAS will be the prime contractor for the team. The contract is scheduled to be awarded in 2021-2022 and will include the

acquisition of the equipment and the full spectrum of in-service support for 20 years.

Website: <https://teamartemis.ca/>

**MUX Payload Prize Challenge.** This was a U.S. Marine Corp challenge that seeks to obtain information, performance capabilities, and technical data on mission system payload technologies to inform the development and acquisition strategy for the Marine Air Ground Task Force, Unmanned Aircraft System, Expeditionary (MUX) Program. In November 2019, the Navy announced the winners in the various categories. In the MUX Electronic Warfare (EW) Payload Prize Challenge, L3Harris took first place and a \$700,000 prize, General Atomics second place (\$200,000), and Piasecki Aircraft third place (\$100,000).

Website: <https://www.navair.navy.mil/muxchallenge>

**Next Generation Jammer.** The NGJ will replace the ALQ-99 tactical jamming system currently on the Navy's EA-18G Growler tactical airborne electronic attack aircraft. The NGJ program aims to develop three jammers: NGJ Mid Band, NGJ Low Band, and NGJ High Band. Raytheon is the current contractor on the ALQ-249 Next Generation Jammer Mid-Band.

In October 2018, the Navy selected L3 Technologies and Northrop Grumman for its Next Generation Jammer Low Band (NGJ-LB) competition.

In November 2018, Northrop Grumman teamed with Harris and Comtech PST for the U.S. Navy's Next Generation Jammer – Low Band (NJG-LB) Demonstration of Existing Technologies (DET). The Naval Air Systems Command (NAVAIR) awarded Northrop Grumman a \$35 million, 20-month contract to demonstrate existing jammer capability for the NJG-LB, which will replace the aging ALQ-99 jammer. Northrop Grumman is the airborne electronic attack integrator for the Navy's current EA-18G Growler electronic warfare (EW) system. They are competing against a rival bid from L3 Technologies, which was awarded \$35.7 million for development. Raytheon and a Lockheed Martin/Cobham team were cut from the competition in August 2018. Raytheon protested the awards with the GAO but was denied.

In May 2019, the Navy awarded additional funding to speed development of the NJG-LB. Northrop Grumman was awarded an additional \$13.5 million, and L3Harris was awarded an additional \$13.7 million. Testing of the systems began in May 2020. A finalist is expected to be selected later in the year.

In December 2020, the U.S. Navy awarded L3Harris Technologies a five-year, \$496 million contract to deliver prototype Next Generation Jammer-Low Band

## L3 Harris

(NGJ-LB) pods. The company will deliver eight operational pods to NAVAIR for fleet assessment and additional test assets for airworthiness and design verification. The NGJ-LB pods will be flown on the EA-18G Growler and will continue the Navy's plan to address operational gaps and replace the aging ALQ-99 Tactical Jamming System pods operating in the low-frequency spectrum.

**NOMARS.** Launched in early 2020, the No Manning Required Ship (NOMARS) is a Defense Advanced Research Projects Agency (DARPA) program that seeks to design a ship that can operate autonomously for long durations at sea, enabling a clean-sheet ship design process that eliminates design considerations associated with crew. NOMARS focuses on exploring novel approaches to the design of the seaframe (the ship without mission systems) while accommodating representative payload size, weight, and power.

In March 2021, L3Harris was chosen for Phase 1 of the NOMARS program. The L3Harris design concept will streamline NOMARS's construction, logistics, operations, and maintenance life-cycle. The company teamed with VARD Marine to validate the concept and design of the architecture and hull, mechanical, and electrical systems. Other Phase 1 contracts were awarded to Autonomous Surface Vehicles, Gibbs & Cox, Serco, Barnstorm Research Corporation, TDI Technologies, InMar Technologies, and Siemens Corporation.

Later phases of the program will build prototype hardware demonstrating some of these concepts, culminating in an "X-ship" seaframe that can be used for demonstration, testing, and future ship design experiments.

**Optionally Manned Fighting Vehicle.** In March 2019, the U.S. Army issued a Request for Proposals to competitively build next-generation combat vehicle prototypes. Part of the Next-Generation Combat Vehicle modernization effort, the Optionally Manned Fighting Vehicle (OMFV) is intended to replace the M2 Bradley beginning in 2026. Competitors included General Dynamics with the Griffin and Raytheon Rheinmetall Land Systems with Rheinmetall's Lynx.

However, in October 2019, *Defense News* reported that the U.S. Army disqualified the Lynx from the competition, leaving General Dynamics Land Systems as the sole entrant. In January 2020, the U.S. Army canceled the solicitation for the program outright.

The competition was reopened again in February 2020, with the Army providing new OMFV program guidance

in April. According to a GAO report, the new effort features a five-phased approach to acquisition as well as a pledge from the Army to "reduce foreign barriers to competition" and "identify a pathway to integrate relevant but immature technologies" into the program.

Under the Army's 2021 plan, it will request white papers and then choose five prime contractor teams to design rough digital prototypes. This will be followed by the award of up to three contracts for a detailed design and prototype phase. A downselect to a single contractor could occur in 2027.

The competing teams include BAE Systems (teamed with Elbit Systems of America), General Dynamics (teamed with AeroVironment and Applied Intuition), American Rheinmetall (teamed with L3Harris and Raytheon), and Hanwha (teamed with Oshkosh) as well as some smaller or nontraditional contenders like Mettle Ops and Point Blank Enterprises.

In April 2021, American Rheinmetall Vehicles, acting as the team prime contractor, selected L3Harris to provide vehicle mission systems, cybersecurity, and its modular open systems approach (MOSA) for their entrant, the Lynx.

**Protected Tactical Waveform Modems.** In March 2020, L3Harris and Raytheon Technologies were both awarded contracts worth up to \$500 million to produce Protected Tactical Waveform-capable anti-jam modems. These modems will be used on the Protected Tactical Satcom program. PTS is a next-generation capability connecting warfighters with more agile and jam-resistant satellite communications (satcom). The complete system will deploy a constellation of dedicated geostationary satellites, commercially hosted payloads, and coalition partner satellites integrated through a ground control network to provide U.S. and coalition forces protected communications in a data hungry battlespace.

**Saudi Arabian Military Industries.** In June 2019, L3 Technologies signed a joint venture agreement with Saudi Arabian Military Industries (SAMI) to collaborate on electro-optical and infrared (EO/IR) and special mission systems projects within the Kingdom of Saudi Arabia (KSA).

**SCARS Team.** In September 2020, L3Harris Technologies announced it will lead a team to help transform the U.S. Air Force's flight simulator training, which is used to develop highly skilled aircrews. The L3Harris team – including CAE USA, CymSTAR, Dell Technologies, and Leidos – will support the Air Force's Simulators Common Architecture Requirements and

**L3 Harris**

Standards (SCARS) program. The program will integrate and standardize the service's aircraft training simulators. L3Harris Technologies Arlington, Texas,

was awarded a \$900 million ceiling, indefinite delivery/indefinite quantity contract for SCARS in June 2020.

## Financial Results/Corporate Statistics

L3Harris Technologies pro forma data is presented below. Data is sourced from SEC EDGAR Filings, L3Harris 2020 annual report, L3Harris 2019 transition report, and L3Harris' Investors Overview.

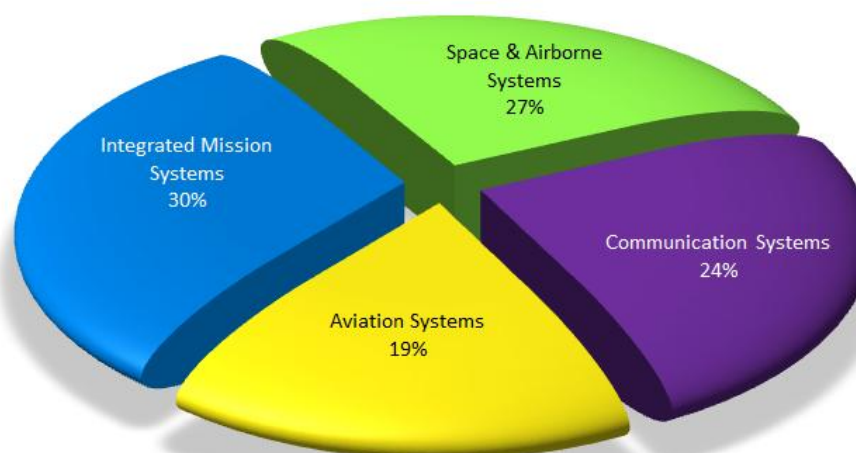
<b>L3Harris Technologies (NYSE: LHX)</b>			
(USD millions)	<b>2018</b>	<b>2019</b>	<b>2020</b>
Net Sales	16,404	17,677	18,194
Net Income	847	1,345	1,119
Backlog	15,300	21,670	20,146
Long-Term Debt	3,411	6,694	6,908
Shareholder Equity	-	22,587	20,724
Debt-to-Equity Ratio	-	.29	.33
Employees	-	50,000	48,000

### Industry Segments

A pro forma breakdown of L3Harris' sales by segment is provided in the table below.

<b>SALES</b>	<b>2019</b>	<b>2020</b>
(USD millions)		
Integrated Mission Systems	5,360	5,538
Space & Airborne Systems	4,689	4,946
Communication Systems	4,278	4,443
Aviation Systems	3,917	3,448

**2020 Sales by Segment  
L3Harris Technologies**



## L3 Harris

### Major Competitors

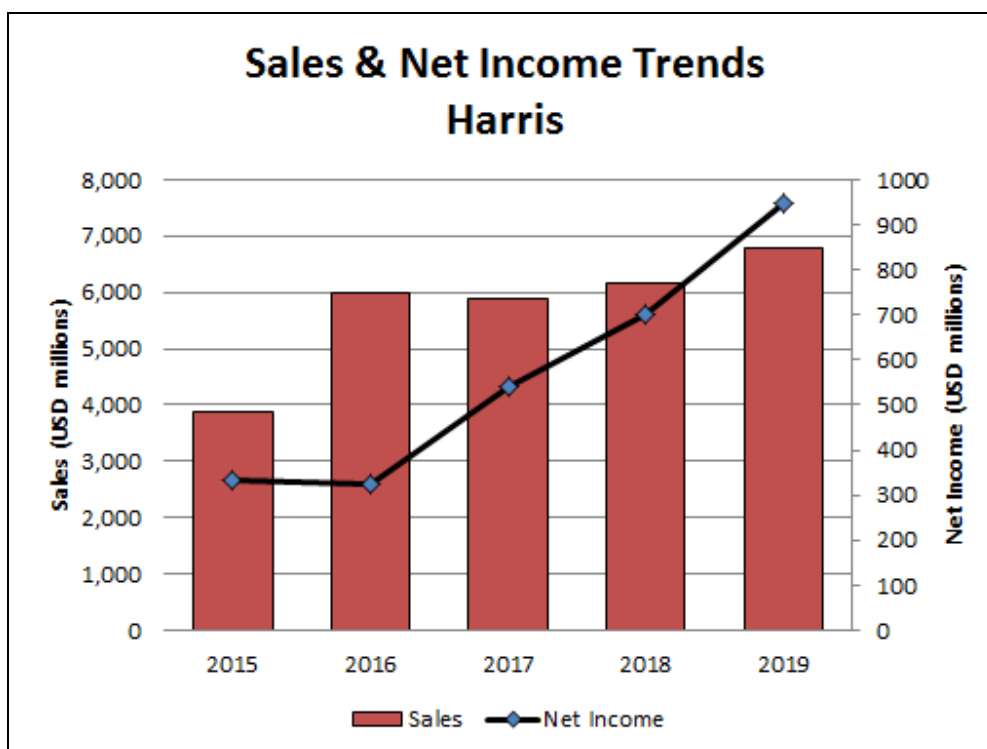
L3Harris competes against large aerospace and defense companies; principally, BAE Systems, Boeing, General Dynamics, Lockheed Martin, Northrop Grumman, Raytheon Technologies and Thales.

### Antecedent Company Historic Results

#### Harris

Harris Corporation's sales for the year ended June 30, 2019, totaled \$6.8 billion, up almost 10 percent from \$6.2 billion in FY18. Net income rose to \$949 million, from \$699 million in FY18. The company's latest full-year statistics, restated to its current presentation, are provided below.

<b>Harris Corp (no longer traded)</b>					
(USD millions)	2015	2016	2017	2018	2019
Net Sales	3,885	5,992	5,897	6,168	6,801
Net Income	334	324	543	699	949
Sales to Gov't	2,564	4,614	4,366	4,637	5,237
Percent Gov't Sales	66	77	74	75	77
R&D Expenditures (Co)	276	305	310	311	331
Funded Backlog	-	4,000	4,100	5,200	5,800
Long-Term Debt	5,053	4,120	3,396	3,408	2,763
Shareholder Equity	3,402	3,057	2,928	3,322	3,363
Debt-to-Equity Ratio	1.48	1.34	1.15	1.02	.82
Employees	22,300	21,000	17,000	17,500	18,200

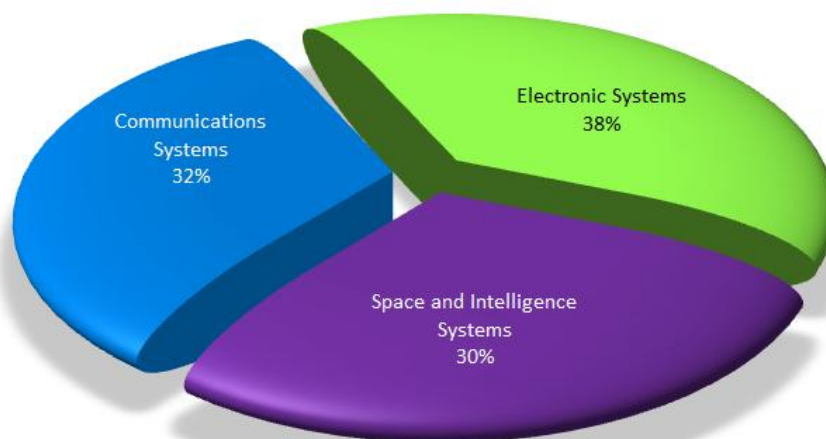


**L3 Harris****Industry Segments**

A breakdown of Harris' sales, operating income, and backlog by segment for the past four years is provided in the table below.

<b>SALES</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
(USD millions)				
Communications Systems	1,864	1,754	1,904	2,177
Electronic Systems	2,233	2,245	2,365	2,583
Space and Intelligence Systems	1,899	1,904	1,913	2,057
Eliminations	-4	-6	-15	-16
<b>TOTAL</b>	<b>5,992</b>	<b>5,897</b>	<b>6,167</b>	<b>6,801</b>
<b>OPERATING INCOME</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
(USD millions)				
Communications Systems	522	514	566	654
Electronic Systems	430	457	432	499
Space and Intelligence Systems	288	314	331	359
<b>TOTAL</b>	<b>1,240</b>	<b>1,285</b>	<b>1,329</b>	<b>1,512</b>
<b>FUNDED BACKLOG</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
(USD millions)				
Communications Systems	1,000	1,100	1,500	1,700
Electronic Systems	1,900	1,900	2,600	3,000
Space and Intelligence Systems	1,100	1,100	1,100	1,200
<b>TOTAL</b>	<b>4,000</b>	<b>4,100</b>	<b>5,200</b>	<b>5,900</b>

**2019 Sales by Segment  
Harris**



## L3 Harris

### Geographic Sales

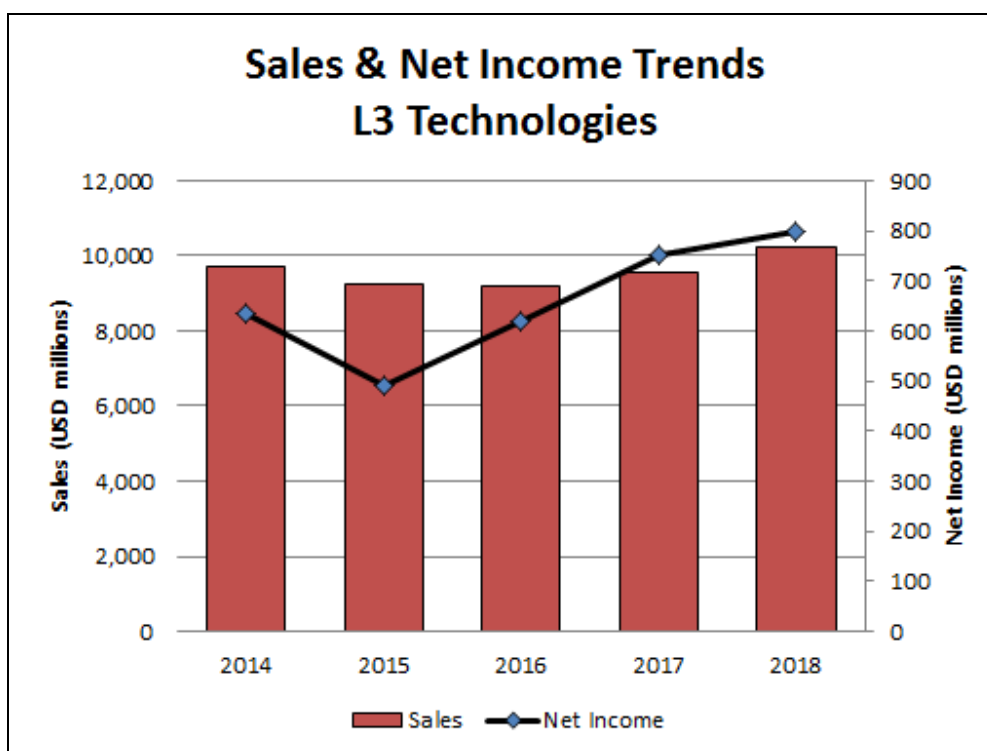
Harris' revenue from exports, including Foreign Military Sales through the U.S. Government, in fiscal 2019, 2018, and 2017 was 22 percent (\$1.5 billion), 23 percent (\$1.4 billion), and 25 percent (\$1.5 billion), respectively. The majority of Harris' international sales were derived from the Communication Systems and Electronic Systems segments.

### L3 Technologies

For 2018, L3 Technologies' sales rose 7 percent, to \$10.2 billion, compared to \$9.6 billion in 2017. The company posted net income of \$800 million for the year, compared to \$753 million for 2017. Results below conform to the company's current presentation.

### L3 Technologies (No longer traded)

(USD millions)	2014	2015	2016	2017	2018
Net Sales	9,691	9,231	9,210	9,573	10,244
Net Income	633	492	619	753	800
Percent Gov't Sales	68%	70%	69%	70%	70%
R&D Expenditures	229	228	258	287	326
Backlog (funded)	9,685	8,423	8,380	8,879	9,704
Long-Term Debt	3,916	3,626	3,325	3,330	3,321
Shareholder Equity	5,360	4,429	4,624	5,151	5,907
Debt to Equity Ratio	.73	.81	.71	.64	.56
Employees	45,000	38,000	38,000	31,000	31,000





**L3 Harris****Industry Segments**

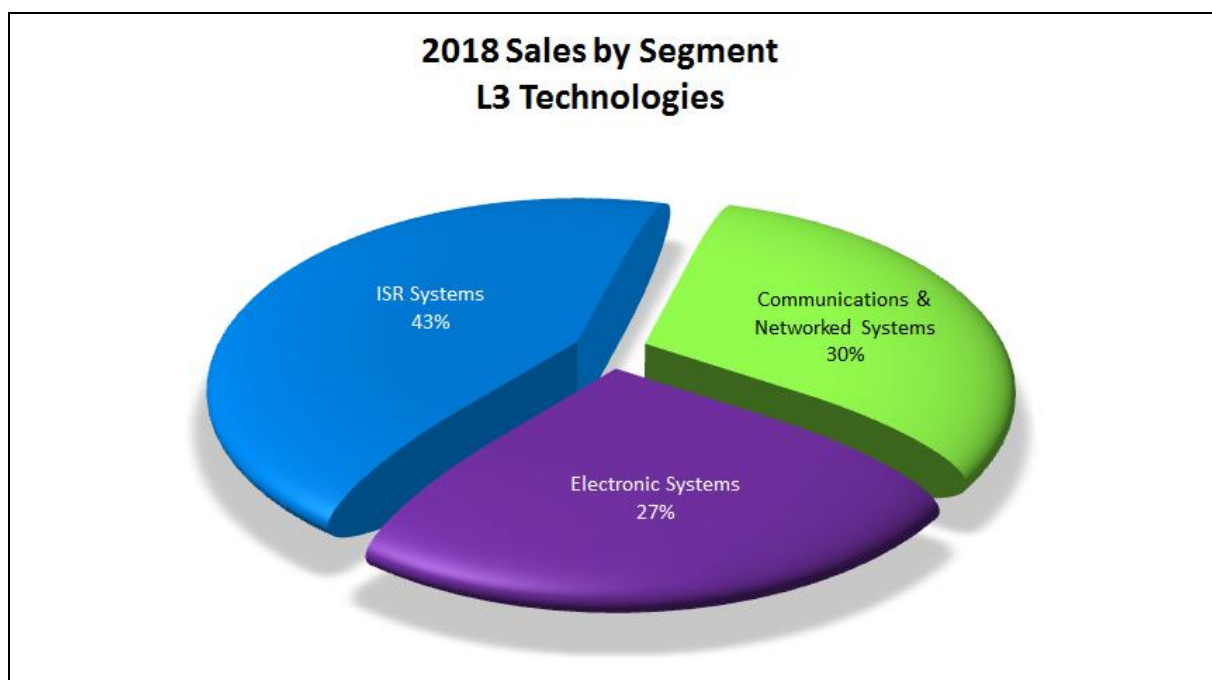
L3 Technologies reports segment information as follows.

<b>SALES</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
(USD millions)			
ISR Systems	4,112	4,003	4,456
Communications & Networked Systems	2,916	3,141	3,094
Electronic Systems	2,270	2,509	2,796
Eliminations	-88	-80	-102
<b>TOTAL</b>	<b>9,210</b>	<b>9,573</b>	<b>10,244</b>
<b>OPERATING INCOME</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
(USD millions)			
ISR Systems	362	348	448
Communications & Networked Systems	298	362	282
Electronic Systems	298	321	376
<b>TOTAL</b>	<b>958</b>	<b>1,031</b>	<b>1,106</b>

**Segment Details**

The following tables provide a breakdown of key financial data for the company's major business segments and geographic regions for the past three years.

<b>ISR SYSTEMS</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
(USD millions)			
Net Sales	4,112	4,003	4,456
<i>Products</i>	2,662	2,540	2,907
<i>Services</i>	1,450	1,463	1,549
Operating Income	362	348	448
Funded Orders	-	4,313	5,121
Funded Backlog	-	3,628	4,150
<b>COMMUNICATIONS &amp; NETWORKED SYSTEMS</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
(USD millions)			
Net Sales	2,916	3,141	3,094
<i>Products</i>	2,238	2,424	2,307
<i>Services</i>	678	717	787
Operating Income	298	362	282
Funded Orders	-	3,096	3,364
Funded Backlog	-	3,092	3,163
<b>ELECTRONIC SYSTEMS</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
(USD millions)			
Net Sales	2,270	2,509	2,796
<i>Products</i>	1,617	1,814	2,007
<i>Services</i>	653	695	789
Operating Income	298	321	376
Funded Orders	-	2,587	3,096
Funded Backlog	-	2,159	2,391

**L3 Harris**

MAJOR CUSTOMERS	2016	2017	2018
(USD millions)			
Department of Defense	6,098	6,329	6,721
Other U.S. Government	301	368	423
International (foreign governments)	1,531	1,420	1,528
Commercial - international	732	809	873
Commercial - domestic	548	647	699
<b>TOTAL</b>	<b>9,210</b>	<b>9,573</b>	<b>10,244</b>

GEOGRAPHIC SALES	2,016	2017	2018
(USD millions)			
USA	6,947	7,344	7,843
Canada	297	280	312
United Kingdom	331	335	309
Australia	254	268	219
China	67	167	156
Japan	81	125	145
Saudi Arabia	159	58	128
Turkey	61	61	113
Other	1,013	935	1,019
<b>TOTAL</b>	<b>9,210</b>	<b>9,573</b>	<b>10,244</b>

**Major Competitors**

Some of L3's major competitors include Collins Aerospace, Harris, Lockheed Martin, Northrop Grumman, General Dynamics, BAE Systems, Raytheon, Boeing, Motorola Solutions, OSI Systems, and SAIC.

**L3 Harris****Strategic Outlook**

L3Harris technologies weathered the COVID-19 crisis quite well, with sales rising 3 percent to \$18.2 billion. The growth trajectory continued in the first part of 2021, and the company expects revenue in the \$18.5 to \$18.9 billion range for the year, excluding the effects of pending divestitures.

L3Harris is continuing to tighten its operations as it seeks to further refine its portfolio following its 2019 merger. While L3Harris Technologies is a formidable player in the defense electronics sector, the merger did create a little overlap, most notably in the night vision sector. To avoid anti-trust issues, Harris sold its night vision operations to Elbit Systems in a deal valued at \$350 million.

As it began the process of combining the two firms, the company decided to focus on what it sees as core markets, specifically in the C4ISR sector. L3Harris management has said it could sell up to 10 percent of the company that is not considered core, and several major deals have pushed the company close to this goal.

The first operation L3Harris divested was the airport security and automation business, which was sold to Leidos for \$1.0 billion in 2020. These businesses provide airport and critical infrastructure screening products, automated tray return systems, and other industrial automation products. This was followed by the sale of optics and sighting manufacturer EOTech for \$60 million.

In 2021, L3Harris arranged to exit military training with the agreement to sell its military training operations to Canada's CAE for \$1.05 billion. The L3Harris Military Training business includes Link Simulation & Training, Doss Aviation, and AMI. L3Harris Link is a provider of military training solutions in the United States; Doss Aviation is the provider of initial flight training to the United States Air Force (USAF); and AMI is a design and manufacturing facility for simulator hardware. L3Harris has so far retained its commercial pilot training and simulator operations.

At the same time, the company also signed an agreement to sell its Combat Propulsion Systems and Magnet-Motor GmbH businesses for about \$400 million in cash to Germany's RENK. Combat Propulsion Systems, based in the U.S., supplies transmissions and engines, such as the AVDS-1790 series, for armored vehicles in the U.S. and international markets. Magnet-Motor develops and designs high-performance electric power supplies and hybrid drive systems for military applications and is located in Starnberg, Germany.

These sales have helped reshape L3Harris' portfolio and have pushed it close to its target of reducing assets that account for about 10 percent of sales. Proceeds from the divestitures are expected to be used for share repurchases.

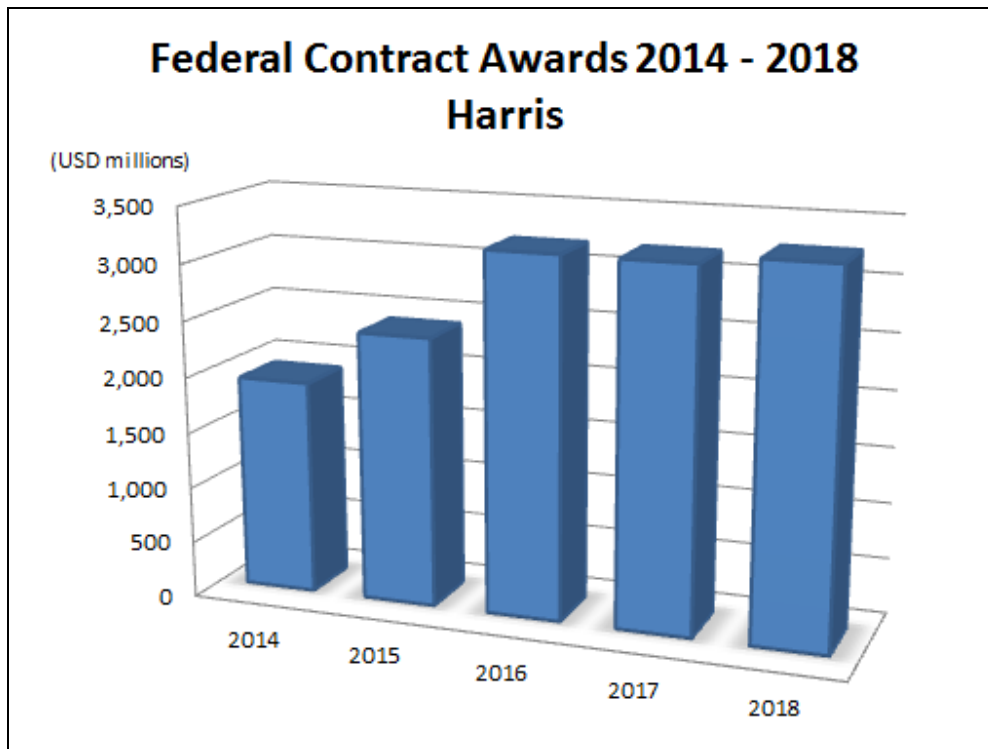
**Prime Award Summary**

**L3Harris** The following chart and table show the approximate dollar volume of federal prime contracts awarded for 2019-2020 and the top 100 rank (if applicable) of the company in terms of federal contracts for each of the five years. Information is sourced from the Federal Procurement Data System – Next Generation ( [www.fpds.gov](http://www.fpds.gov) ) Top 100 Contractors Report. For more information, refer to Appendix I, "Recipients of Federal Contract Awards."

<b>L3Harris</b>	<b>2019</b>	<b>2020</b>
(USD millions)		
Rank	10	11
<b>Total Federal Awards</b>	<b>6,878</b>	<b>7,086</b>

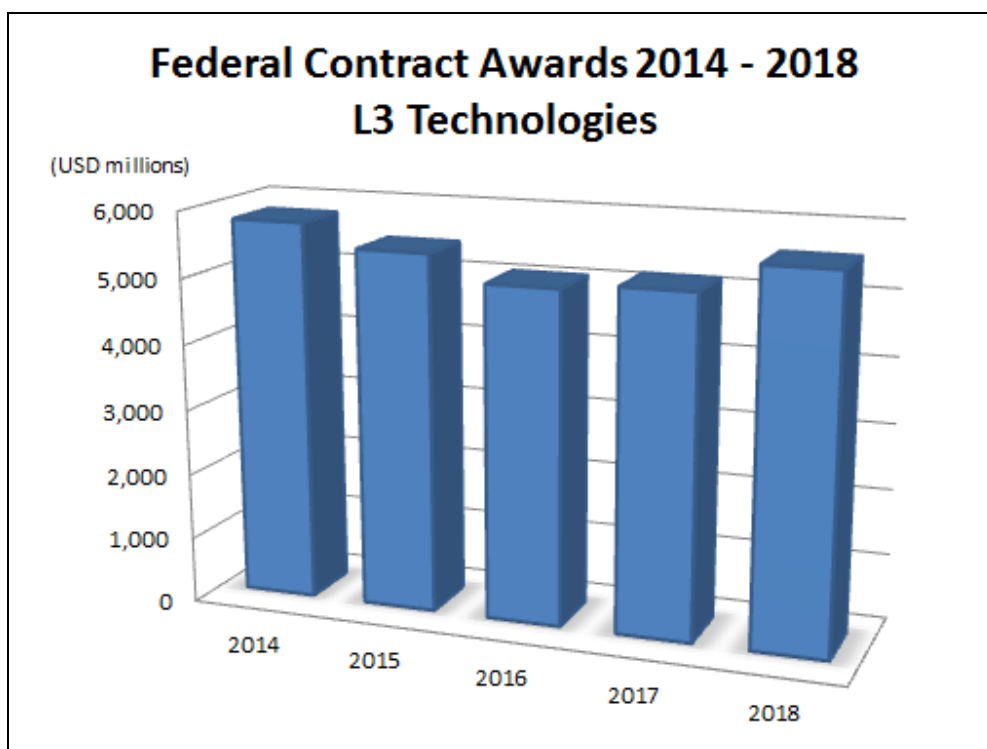
**Harris.** The following chart and table show the approximate dollar volume of federal prime contracts awarded to Harris from 2014 through 2018 and the top 100 rank (if applicable) of the company in terms of federal contracts for each of the five years.

<b>Harris</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
(USD millions)					
Rank	28	20	16	16	20
<b>Total Federal Awards</b>	<b>1,916</b>	<b>2,408</b>	<b>3,200</b>	<b>3,194</b>	<b>3,266</b>

**L3 Harris**

**L3 Technologies.** The following chart and table show the dollar volume of federal prime contract awards and rank (if applicable) relative to the top 100 companies in terms of federal contracts for 2014 through 2018.

<b>L3 Technologies</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
(USD millions)					
Rank	9	8	9	10	12
<b>Total Federal Awards</b>	<b>5,790</b>	<b>5,451</b>	<b>5,064</b>	<b>5,151</b>	<b>5,585</b>

**L3 Harris**

Source: Federal Procurement Data System - Next Generation ([www.fpds.gov](http://www.fpds.gov)) Top 100 Contractors Report.

## Program Activity

Some important aerospace and government programs currently underway at L3Harris are listed below. The company's business interests are centered on aerospace and defense electronics.

- Avionics
- Military Electronics
- Simulation & Training
- Space Systems
- Unmanned Vehicle Systems

**Note:** In the section below, programs remain identified by their legacy company, Harris or L3.

### Aviation Services

Through its Aerospace Systems segment, L3 provides logistics services for aircraft, including modernization and refurbishments, upgrades and sustainment, and maintenance and support for military, government, and commercial customers.

#### F-16 Training

In December 2011, L3 Link Simulation & Training (*sale currently pending to CAE*) won an initial one-year contract to provide pilot and maintenance training

devices for USAF F-16s. This firm-fixed-price contract, with options through 2019, has a maximum potential value of \$469.5 million. Under an F-16 Aircrew Training Device (ATD) contract, L3 Link was already supporting 183 F-16 pilot and maintenance trainers. With this new award, L3 Link would provide uninterrupted support to these training devices when the F-16 ATD contract expired in December 2011 and the F-16 training system contract began in January 2012. L3 Link is now overseeing all F-16 training systems support for the U.S. Air Force around the world and F-16 FMS countries, including Bahrain, Greece, and Jordan.

#### F-35 ICP

In September 2018, Lockheed Martin selected Harris to develop and deliver the next-generation Integrated Core Processor (ICP) for the F-35 fighter jet. The new Integrated Core Processor is an element of the planned "Technology Refresh 3" modernization that takes advantage of fast-evolving computing power to ensure the advanced F-35 remains ahead of evolving threats. The Harris-built ICP will be integrated into F-35 aircraft, starting with Lot 15, expected to begin deliveries in 2023.

## L3 Harris

### Contract Vehicles

Contract vehicles provide federal agencies with a convenient and easy-to-use mechanism for obtaining a wide variety of management and technology services.

Indefinite delivery/indefinite quantity (IDIQ) contracts provide for an indefinite quantity of services for a fixed time. They are used when the U.S. General Services Administration (GSA – [www.gsa.gov](http://www.gsa.gov)) cannot determine, above a specified minimum, the precise quantities of supplies or services the government will require during the contract period. IDIQs help streamline the contract process and speed service delivery. IDIQ contracts are most often used for service contracts and architect-engineering services.

Under the GSA Schedules Program (GSA schedules are also referred to as Multiple-Award Schedules and Federal Supply Schedules), the GSA establishes long-term government-wide contracts with commercial firms to access over 11 million commercial supplies (products) and services.

#### Specific IDIQs

- Enterprise Infrastructure Solutions (EIS)
- Florida Statewide Law Enforcement Radio System (SLERS)
- GSA PSS (Professional Services Schedule)
- One Acquisition Solution for Integrated Services (OASIS)
- State of California - NASPO Participating Addendum
- State of Michigan Two-Way Radio and Radio System Sales and Services Statewide
- State of Mississippi – Two-Way Radio EPL
- State of Virginia (VITA)
- Subscriber Unit Radio and Accessories Contract (SURAC)

For full details on L3Harris' current contract vehicles, visit: <https://www.l3harris.com/idiq-and-gsa-schedules>

**NGA Geospatial Database Support.** In July 2018, Harris was awarded three multiple-award IDIQ contracts with ceilings totaling \$1.5 billion to provide the National Geospatial-Intelligence Agency (NGA) with geospatial data services for up to 10 years. Harris will create, manage, and disseminate high-quality geospatial-intelligence (GEOINT) information for use by the U.S. intelligence community and military worldwide under contracts that cover all three areas of NGA's JANUS program: geography, imagery, and elevation. Harris provides high-resolution geospatial data content and products under NGA's Foundation GEOINT Content Management program, and previously supported the Global Geospatial-Intelligence program.

### Electronic Programs

#### (Anti-Submarine Warfare)

##### AQS-13(V)

The AQS-13(V) is a family of helicopter-borne, lightweight dipping sonar systems. The Sikorsky SH-60B/F/R and HS.23 helicopters (Spain's variation of the SH-60) are leading platforms. Most known orders and retrofits have been completed. A strong maintenance and spares market remains.

##### AUTEC

The Atlantic Undersea Test and Evaluation Center provides a deepwater test and evaluation facility for collecting underwater, surface, and air tracking data on test participants for the U.S. Navy's only deepwater, secure, instrumented ASW test and evaluation range. L3Harris is a program participant.

##### BQQ-5(V)

The U.S. Navy's BQQ-5(V) is a digital, low-frequency, multibeam, active/passive sonar suite for fast attack and ballistic missile submarines using hull-mounted/towed array. The U.S. Navy's BQQ-5(V) is a legacy system that has been kept in operation through numerous upgrades such as the incorporation of the Multi-Purpose Processor (MPP). L3Harris Chesapeake Sciences Corporation is a prime on this effort.

##### HELRAS

The Helicopter Long-Range Active Sonar is a helicopter-borne dipping sonar tasked with the detection and tracking of submarines. This low-frequency dipping sonar is intended to equip medium and large ASW helicopters. Existing platforms include EH101, NH90, SH-2G, and S-70B helicopters. L3 Ocean Systems is the prime.

#### Surface Tactical Team Trainer (STTT) / Battle Force Tactical Trainer (BFTT)

The Surface Tactical Team Trainer (STTT) program develops Battle Force Tactical Trainer (BFTT) / Cryptologic Systems Embedded Trainer (CSET) systems to provide realistic joint warfare training, including a means of linking ships together for coordinated in-port training. The BFTT (designated USQ-T46) supports the embedded trainer "family of systems" approach for the development of a Total Ship Training Capability (TSTC). L3Harris is one of several contractors involved in this effort.

#### (C4I)

##### Airborne Reconnaissance Low (ARL)

The Airborne Reconnaissance Low (ARL) is a reconnaissance platform that enables the detection, location, and identification of targets in operations such

## L3 Harris

as counternarcotics using electro-optics, radar, communications intelligence, and precision location/direction finding equipment. L3Harris – Communication Systems-West and L3Harris – WESCAM are involved with this program.

### ARC-201

The ARC-201 is part of the SINCGARS family. It is a VHF/FM single-channel radio packaged for airborne applications. Harris is the prime. The ARC-201 was initially procured as a stopgap replacement for the JTRS (Joint Tactical Radio System), but now the Army has turned its attention to a new radio, the Small Airborne Networking Radio, which is under development to fulfill SINCGARS duties as well as provide new Soldier Radio Waveform and Wideband Networking Waveform capabilities. When the SANR reaches production, it will replace the ARC-201 across all the U.S. Army's new-build and extant platforms.

### Distributed Common Ground System (DCGS)

The Distributed Common Ground System (DCGS) is a C4ISR program that produces military intelligence for the leading services of the U.S. military. It integrates the architecture of the ground and surface systems involved in reconnaissance and imagery intelligence across all military services (and likely other government departments and agencies, such as the Department of Homeland Security). The goal is to link numerous computer systems used for defense purposes, ranging from very old stand-alone systems to new units. L3Harris is one of several contractors on this effort.

### EMARSS

The U.S. Army's Enhanced Medium Altitude Reconnaissance Surveillance System flies on board the C-12 (King Air 350) platform in various configurations. The EMARSS-S will fulfill Army requirements for a manned airborne ISR system that provides a persistent capability to detect, locate, classify/identify, and track surface targets both day and night and in nearly all weather conditions with a high degree of timeliness and accuracy. L3Harris has modified one U.S. government-owned QRC Liberty Project aircraft to the EMARSS-M configuration. This modified aircraft made its first flight in June 2016. The EMARSS program, which is enjoying a period of steady funding, appears to have a solid place in the U.S. Army's plans.

### Falcon II Tactical Radio

The Falcon II is a family of high-frequency, very high-frequency, and multiband tactical radios. The software-operated Falcon II is a fully integrated communications system designed for the digital battlefield. The unit is a rugged, secure manpack or vehicle-mounted, SINCGARS-compatible voice and data communications

system with a high data transfer rate and limited video capabilities. According to L3Harris, many nations have issued contracts for Falcon and Falcon II radio variants, and the company recently introduced several new variants. Models include the RF-5800H Falcon II HF / VHF and the PRC-117F VHF/UHF.

### Falcon III Tactical Radio

The Falcon III is a next-generation radio family developed by L3Harris. These radios support the U.S. military's JTRS requirements, as well as network-centric operations worldwide. Models within the Falcon III class include the PRC-152A multichannel manpack radio, PRC-117G wideband tactical radio, RF-7800-H-MP high-frequency tactical radio, RF-7800M-MP multiband networking radio, and RF-7800V handheld VHF radio.

### Hand Held Video Data Link

In May 2018, the U.S. Air Force awarded Harris a five-year, \$130 million ceiling, single-award IDIQ contract to develop and deliver Hand Held Video Data Link (HH-VDL) radios. The new Harris HH-VDL radio will securely deliver data to and from multiple airborne assets, creating an expanded, mobile communications network. This enables real-time intelligence, surveillance, and reconnaissance (ISR) information – such as full-motion video – to be distributed from the air to warfighters on the ground.

### Integrated Broadcast Service

IBS is a U.S. DoD system designed to integrate existing intelligence broadcast systems into a single architecture to transmit critical data to field commanders as quickly as possible. Four IBS sites have been built and are now functioning. In February 2008, the U.K. MoD selected L3 Technologies to supply an IBS system. Under an initial deal valued at GBP46 million (\$92.1 million), L3Harris will provide program management, system design, platform integration, and systems engineering for development, test, evaluation, and full life-cycle sustainment of requirements. According to the company, the service life of the program is expected to be 15 years, with a projected contract value in excess of GBP70 million (\$140.2 million).

### Joint Tactical Networks

The U.S. Army's Joint Tactical Networks (JTN) program develops interoperable, secure Joint Tactical Networking software that can be applied to a variety of radios. It can be considered an outgrowth of the canceled Joint Tactical Radio System (JTRS) program, launched so as not to waste the progress made within that program. The Joint Tactical Networks program is funded under PE#0605031A. The program includes two projects: Project EF5, Joint Tactical Networks and

## L3 Harris

Project EX6, Waveforms. L3Harris is one of several contractors involved in this effort.

### MEECN

The Minimum Essential Emergency Communications Network is designed to provide a reliable, durable communications network in adverse jamming and nuclear conditions. Both the U.S. Air Force and Navy are funding RDT&E programs; a separate DoD effort is also in progress. L3Harris Communication Systems - East provides cryptographic modernization services under this effort.

### Network Centric Collaborative Targeting

The U.S. Air Force's Network Centric Collaborative Targeting (NCCT) program is responsible for developing core technologies supporting the horizontal and/or vertical integration of intelligence, surveillance, and reconnaissance (ISR) sensor systems. The result of such integration is a multi-intelligence (multi-INT) sensor network. L3Harris ComCept is a prime on this effort.

### NORAD

The North American Aerospace Defense Command (NORAD) is a military partnership between the United States and Canada with a history stretching back to the 1950s. Its mission is to maintain surveillance and provide defense of the entirety of North America's airspace. NORAD is headquartered at Peterson Air Force Base, Colorado. L3Harris is one of numerous contractors that support this operation.

### PRC-117

The PRC-117 is a manpack, vehicular, and base station military radio manufactured by L3Harris. It is software-operated. The PRC-117 integrates the capabilities of three distinct radios into one: VHF-FM capabilities for combat net radio communications; VHF-AM capabilities for public safety and ground-to-air communications; and UHF-AM capabilities for military ground-to-air and UHF tactical satellite communications. The PRC-117F also uses the latest technology to embed many advanced features, such as SINCGARS, HAVE QUICK, and Type I encryption. L3Harris is promoting its PRC-117G(C) as a "new-generation" military radio. The PRC-117G(C) is 30 percent smaller and 35 percent lighter than currently fielded radios of its type. Additionally, the PRC-117G(C) possesses more than 10 times the processing power of currently fielded NSA Type 1 security-certified manpack radios. L3Harris' PRC-117G is one of the top-selling radios worldwide and will remain a top seller for years to come.

### PRC-150(C)

The PRC-150 is a software-operated manpack, vehicular, and base station military radio produced by L3Harris. L3Harris developed the radio for missions requiring reliable, long-range communications equipment. Introduced in 2000, the PRC-150(C) can transmit voice, data, and images. The radio's embedded security features enable secure ground-to-ground and ground-to-air communications in all high-frequency modes and in fixed-frequency modes with SINCGARS radios.

### PRC-152

The PRC-152 is a single-channel, multiband, handheld military radio manufactured by L3Harris. It is software-operated. To provide the U.S. military services with handheld radios until full-rate production of the JTRS handheld manpack radios, the U.S. Department of Defense launched the Consolidated, Interim, Single-Channel Handheld Radio (CISCHR) effort. Under this effort, L3Harris' PRC-152 will compete with Thales Communications' PRC-148 for orders from the DoD.

### PRC-158

The PRC-158 is a compact, multichannel, manpack radio. In February 2016, the PRC-158 received a tremendous jumpstart when (then) Harris Corp was one of three entities awarded a \$12.7 billion, five-year contract to supply handheld, manpack, small form-fit (HMS) radios to the U.S. Army. The service expected to acquire approximately 65,000 radios under the contract.

### PRC-163

In March 2018, Harris introduced the PRC-163 Army Radio, a new two-channel handheld radio that simultaneously delivers voice and data networking to U.S. Army leaders. The new radio's crossbanding technology allows users to send information up and down the chain of command, as well as across the battlefield network backbone, while connecting to computing devices, including Android smartphones.

### RF-7800S

The RF-7800S is a hands-free, "shirt-pocket-sized" military radio manufactured by L3Harris. The RF-7800S uses software to send and receive digitized voice and data.

### RF-7800V

The RF-7800V is a VHF handheld military radio manufactured by L3Harris. It is software operated.

### SINCGARS

The Single Channel Ground-to-Air Radio System is an advanced VHF/FM radio. It is the standard VHF/FM



## L3 Harris

manpack radio used by the U.S. Army and Marine Corps. Airborne versions are also available for Army and Air Force aircraft that support ground forces. In addition, sea-based versions are made for use on naval vessels. L3Harris is the prime.

### (Electro-Optical Systems)

#### ASQ-170 Arrowhead M-TADS/PNVS

The Arrowhead is a significant upgrade to the Apache Target Acquisition and Designation Sight/Pilot Night Vision Sensor (TADS/PNVS) system. It is an electro-optical fire control system designed to provide the AH-64 Apache helicopter with targeting capability and operational safety both day and night and in bad weather. L3Harris provides Modernized Target Acquisition Designation Sights (M-TADS) for the system.

#### ASQ-228/ATFLIR

The Advanced Targeting Forward-Looking Infrared sensor is used on F/A-18 Hornet and Super Hornet aircraft for long-range delivery of air-to-ground weapons. Raytheon is the prime; L3Harris the ASQ-228 datalink. The U.S. Navy is expected to procure ATFLIRs alongside new-build F/A-18E/Fs through 2029.

#### AVS-9 Night Vision Goggles

The AVS-9 night vision goggles produced by Harris (Exelis) Night Vision and Northrop Grumman Electro-Optical Systems are helmet-mounted Generation III devices that utilize gallium arsenide for the photocathode and a micro-channel plate to amplify light. Designed for use in rotary- and fixed-wing aircraft, the AVS-9 system assists pilots in identifying targets that would not normally be discernible at night.

#### L3 KEO Mk 46 EO Director

This is an electro-optical fire control director designed for anti-surface warfare, splash spotting, damage assessment, target surveillance/identification, naval gunfire support, mine detection, and automatic target tracking. The system was originally designed for DDG-51 Arleigh Burke class destroyers. Production continues, primarily for installations on U.S. Coast Guard vessels. L3Harris KEO (Kollmorgen Electro-Optical) is the prime.

#### L3 KEO Model 76 Periscopes

This is a family of periscopes suitable for installation on most types of submarines, mainly sold to non-U.S. markets. The Model 76 family of periscopes is used for surveillance and attack fire control. The modular construction allows for variation and mission specialization for attack as well as search. The Model 76 remains in production. Production of

Type 209 and Scorpène class submarines for several nations may be the primary market driver for this system into the next decade. L3Harris KEO (Kollmorgen Electro-Optical) is the prime.

#### L3 KEO Non-Penetrating Periscopes

The Model 86 non-penetrating periscope will be used on the U.S. Navy's Seawolf and New Attack submarines, operating in an all-optronic configuration. Developed to replace traditional periscopes, the Model 86 is a non-penetrating, two-stage, modular, electro-optical sensor system. The Model 86 offers thermal imaging for day and night viewing, and color television for daylight viewing. It has a built-in, two-axis stabilization feature, intended to eliminate the effects of the ship's motion and mast vibration. The periscope is a vital part of the Navy's Virginia (SSN-774) class submarines, which are scheduled to remain in production throughout the decade. L3Harris KEO (Kollmorgen Electro-Optical) is the prime.

#### PSQ-20 Enhanced Night Vision Goggle (ENVG)

This is an enhanced, helmet-mounted night vision goggle designed for the dismounted soldier. Harris competes against DRS Technologies and BAE Systems for orders. These ENVGs replace older systems such as the PVS-7/14.

#### PVS-7/14

These devices are Generation III night vision goggles. Production for U.S. Army will likely wind down over the next few years as the newer PSQ-20 ENVG takes over. However, the PVS-7/14 will continue to be a desirable system on the export market. L3Harris is the prime.

#### WESCAM MX-15

The MX-15 high-definition sensor turret is designed for medium-altitude covert ISR missions on fixed-wing, rotary-wing, and UAV platforms. Produced by L3Harris WESCAM, the system is in wide use with the U.S. Army and Air Force. Steady international demand for the WESCAM MX-15 will be driven by the ongoing need for airborne surveillance from multiple military, security, and search-and-rescue organizations around the world.

### (Electronic Systems)

#### Air Traffic Control

L3Harris is a key provider of systems for the FAA's Next Generation Air Transportation System (NGATS or NextGen). This \$20 billion portfolio of programs will modernize the U.S. air traffic control system. There are seven core programs, five of which are led by Harris. These include Automatic Dependent Surveillance-

## L3 Harris

Broadcast (ADS-B), Data Communications (DataComm), Common Support Services-Weather (CSS-Wx), National Airspace System Voice System (NAS Voice System), and System Wide Information Management (SWIM). The other two core programs are NextGen Weather Processor (NWP), led by Raytheon, and the Collaborative Air Traffic Management Technology effort. As of March 2019, Data Comm was operational at 62 ATC towers. The FAA stated the program was under budget and more than two and a half years ahead of schedule. The current NextGen roadmap calls for the NextGen Weather Processor and Common Support Services-Weather to be operational across the U.S. in 2025.

The FAA expects to have all major planned systems in at least initial implementation by 2025. Items planned for the 2020 through 2025 timespan include ADS-B (Automatic Dependent Surveillance-Broadcast) In, Commercial Space Operation integration, Data Comm, NAS Voice System, Terminal Flight Data Manager, and UAS (Unmanned Aircraft Systems) Airspace integration.

(EW)

### ALQ-211(V) (SIRFC/AIDEWS)

The Suite of Integrated RF Countermeasures (SIRFC) is part of a fully integrated electronic combat system designed specifically for operation on the digital battlefield of the 21st century. It will provide protection for a variety of helicopters and the CV-22. The Advanced Integrated Defensive EW Suite (AIDEWS) version was designed for the F-16. L3Harris is the prime contractor.

### ALQ-214 (IDECM)

The ALQ-214 Radio Frequency Countermeasures system is the techniques generator portion of the Integrated Defensive Electronics Countermeasures (IDECM) suite. The ALQ-214 provides critical self-protection for U.S. Navy and Australian Air Force F/A-18 fleets. The internally mounted receiver / processor / techniques generator is the ALQ-214(V), and the new fiber-optic towed decoy is the ALE-55(V). The ALQ-214 and ALE-55 together form the basis for the IDECM. L3Harris is the prime.

### ALQ-227

The ALQ-227 is a digital communications jammer that equips the EA-18G Growler Airborne Electronic Attack aircraft. The system monitors communications and can jam audio or data communications. It can automatically jam active frequencies, counter a particular network, or blindly jam swatches of spectrum. The communications

mode gives operators the opportunity to insert false, misleading, or confusing information into a targeted link. Limited production of ALQ-227 digital communications jammer will match sustainment of the EA-18G Growler. L3Harris is the prime.

### ALQ-99

The ALQ-99 is an airborne tactical jamming system that equips U.S. Navy EA-18G Growler and EA-6B tactical jamming aircraft as part of the Improved Capability III program. L3Harris is the prime. Concurrent with production of the last U.S. Navy-destined EA-18G in 2018, the ALQ-99 exited production.

Over the next 10 years, the ALQ-99 will be gradually withdrawn from use after its replacement, the Next Generation Jammer, enters production. By the late 2020s/early 2030s, funding support for the ALQ-99 will conclude.

### Compass Call

The Compass Call electronic countermeasures system is designed to disrupt the voice and data communications of adversaries, preventing them from effectively commanding and controlling their forces in the field. This also refers to Lockheed EC-130H Hercules aircraft configured to perform these tactical command, control, and communications countermeasures (C3CM).

In July 2018, BAE Systems began work on transitioning its Compass Call systems from the EC-130H aircraft to a more modern platform. Under this Cross Deck initiative, as it is commonly called, the company is working with L3Harris to transition the older plane's capabilities onto an EC-37B aircraft, a special mission Gulfstream G550. Initial modifications of the first G550 are underway, with the first two aircraft to be fielded in 2023. A total of 10 new aircraft are planned.

### JCREW Jammers

The Joint Counter Radio-Controlled Improvised Explosive Device (RCIED) Electronic Warfare (JCREW) jammer is designed to protect U.S. vehicles in operation in Iraq and Afghanistan. Applications for JCREW are kept top secret. However, the systems probably equip vehicles that see combat and convoy duty on a daily basis. These include HMMWVs, Mine Resistant Ambush Protected (MRAP) vehicles, and other large transport vehicles. In October 2009, the U.S. Navy awarded contracts to L3Harris and Northrop Grumman for design, development, integration, and testing of the JCREW Spiral 3.3 system of systems program. Northrop Grumman, L3Harris, and Sierra Nevada Corp have been awarded numerous production contracts for their versions of the system.

**L3 Harris****(Land & Sea-Based Electronics)****WSC-6(V)**

The WSC-6(V) Multiband Shipboard Terminal is a super-high-frequency (SHF) satellite communications system used by U.S. Navy ships at sea to communicate with terminals ashore via the Defense Satellite Communications System (DSCS) and the Intelsat, NATO, Syracuse, and Skynet satellite systems. L3Harris currently markets the WSC-6/6A(V)9. The WSC-6E(V) was selected for installation on the U.S. Navy's new Littoral Combat Ship. The system is also likely to be installed on the future FFG(X).

**(Radar)****APY-9**

The Advanced Hawkeye radar, known as the APY-9, is an electronically scanned array airborne surveillance radar developed for installation on the U.S. Navy's E-2D. L3Harris Randtron Antenna Systems will provide the next-generation antenna to replace the current TRAC-A antenna and rotary coupler.

**AWACS**

The Airborne Warning and Control System (AWACS) platforms are equipped with APY-1 or APY-2 radars. The aircraft provide all-altitude air surveillance, threat warning, and control of theater air forces. Under a \$38 million 2016 contract, L3Harris will provide for the development and delivery of a government-owned AWACS Diminishing Manufacturing Sources (DMS) Replacement of Avionics for Global Operations and Navigation (DRAGON) Flight Crew Training System (FCTS).

**ELM-2022 (APY-11)**

The ELM-2022 is a family of multimode airborne maritime surveillance radars. The system is known in the United States by its AN designation, APY-11. The system was developed by IAI Elta Systems; L3Harris acts as a licensee of the system in the U.S. With its selection of the ELM-2022 radar for new-build HC-130J patrol aircraft, the U.S. Coast Guard has become a major customer for the system. This requirement will bolster licensee L3Harris' order book into the 2020s.

**PSS-14 Mine Detecting Set**

The handheld PSS-14 mine detecting set is capable of detecting all metallic and non-metallic anti-tank and anti-personnel mines. L3Harris Security & Detection Systems produces the unit.

**SPS-48**

This is a shipboard air-surveillance radar used on all U.S. aircraft carriers, most guided missile cruisers and destroyers, and amphibious command ships. It also has been installed at some land-based sites. The SPS-48E

and its follow-on, the SPS-48G, enjoy widespread use on board U.S. Navy vessels and have some acceptance abroad. L3Harris was awarded a \$13 million contract in February 2012 to provide SPS-48 modification kits. The U.S. Navy is updating its older CVN, LHA, LHD, and LPD class ships from the SPS-48E configuration to the SPS-48G through the Radar Obsolescence, Availability Recovery (ROAR) program. Installation of kits in support of the ROAR requirements is expected to conclude in 2025 or 2026. The SPS-48G will be replaced by Raytheon Technologies' SPY-6 AMDR-based EASR on new-build ships.

**Space System Programs****Advanced EHF Satellites**

The Advanced Extremely High Frequency satellite is a follow-on program intended to replace the Milstar satellite system. The Advanced EHF satellite provides the basis for the next-generation military communications satellite system. It enables secure, survivable, jam-resistant, worldwide communications for the strategic and tactical warfighter. Under a 2003 contract, L3Harris Linkabit developed a significant portion of the Advanced EHF Mission Planning Element software. The sixth Lockheed Martin-built Advanced Extremely High Frequency (AEHF-6) satellite launched in March 2020.

**DigitalGlobe Inc**

DigitalGlobe Inc (formerly EarthWatch) is a private provider of commercial remote sensing satellite services. Ball Aerospace & Technologies Corp is the majority owner of DigitalGlobe. L3Harris provides imaging sensor and command & control systems for the service and its satellites.

**Eurostar**

The Eurostar is a series of high-power commercial telecommunications satellites. In June 2001, L3Harris signed contracts with Airbus Defence and Space and Inmarsat Ltd to design and build Satellite Control Center (SCC) software and offer related services for future Airbus Defence and Space Eurostar 3000/2000 satellite customers. Inmarsat was to contribute telemetry & telecomm and kernel software capabilities. The first operational use of the SCC would be for Inmarsat's I-4 series. Inmarsat was also to use the SCC for existing Inmarsat 2 and Inmarsat 3 spacecraft. Finally, the SCC was to support the monitoring and control of numerous other types of satellite platforms.

**Eutelsat**

Eutelsat is a commercial communications satellite system produced in Europe. L3Harris provides the satellite's S-band unfurlable reflector antenna.

## **L3 Harris**

### **GOES-Next**

Geostationary Operational Environmental Satellites are a series of advanced weather satellites. Lockheed Martin is the prime.

**GOES-R Program.** In July 2010, L3Harris and teammates General Dynamics SATCOM Technologies and ARES were awarded a 10-year, \$130 million contract to supply antennas and control systems for NOAA's Geostationary Operational Environmental Satellite-R Series (GOES-R) program. L3Harris is the prime contractor on the team. The Ground Segment Antenna System is one of three NOAA procurements that compose the overall GOES-R Ground Segment project, which will play a vital role in delivering more timely and accurate weather service to the public in the near future. The other procurements are the Access Subsystem and the Ground Segment. The team will provide six new 16- to 18-meter antennas, associated equipment, and site preparation services at the GOES-R primary data reception site in Wallops, Virginia, and at a remote backup site in Fairmont, West Virginia.

In May 2010, L3Harris was awarded a potential \$736 million contract for the GOES-R Ground Segment. Under the contract, L3Harris will design, develop, and deploy the ground infrastructure that will provide for the receipt, processing, and product generation of weather data and products and their distribution to more than 10,000 direct users.

The first launch of a GOES-R Series satellite was in late 2016. Funding has been allocated for the GOES-R series satellites; however, delays in the program have pushed back their operational date.

### **Inmarsat**

The Inmarsat system is a global constellation of telecommunications satellites. The Inmarsat satellite system provides phone, fax, telex, data, and compressed video to customers aboard ships, yachts, cruise vessels, oil drilling rigs, commercial aircraft, automobiles, and trucks. L3Harris Telemetry & RF Products provides command software for the system.

### **Intelsat**

Intelsat (International Telecommunications Satellite consortium) is an international satellite-based telecommunications system. L3Harris MAS provides various components to this program.

### **International Space Station**

The International Space Station is an orbiting crewed research and work center. Boeing Defense and Space Group, Missiles and Space Division, is the International Space Station prime contractor. L3Harris provided some design, development, fabrication, and test work for the program.

### **Iridium**

Iridium is a worldwide digital, cellular personal communications system based on low-Earth-orbiting (LEO) satellites. Harris worked with startup exactEarth to install automatic identification system (AIS) sensors on 58 Iridium NEXT satellites. The first batch of 10 Iridium NEXT satellites launched on January 14, 2017. The constellation was completed in January 2019.

### **Navstar Global Positioning System**

The Navstar Global Positioning System is a constellation of U.S. Navstar satellites used for 3-D position and velocity determination. The GPS III contract was awarded to Lockheed Martin; Block III satellites are still under development. Harris will provide the navigation payload, and General Dynamics Advanced Information Systems, Gilbert, Arizona, will provide the network communications element, which includes the UHF crosslink and tracking, telemetry, and command subsystems.

The Air Force has bid out the next phase of the program, called GPS IIIF. Originally, the Air Force hoped to receive bids from Boeing, Northrop Grumman, and GPS III contractor Lockheed Martin in an attempt to save money via competition. However, Boeing and Northrop Grumman declined to submit bids, leaving Lockheed Martin as the likely contractor for 22 GPS IIIF satellites. This was confirmed in September 2018 when Lockheed Martin was indeed selected to produce the GPS IIIF satellites.

### **Skynet**

Skynet is a military communications satellite used by the U.K. Ministry of Defence. The British Skynets use a command and control system built by L3Harris, as well as antenna systems. The L3Harris system receives satellite telemetry and transmits operational commands to keep the spacecraft in their orbital slots. To meet future needs and replace aging in-orbit satellites, the U.K. MoD started the Skynet 6 program, formerly the Future Beyond Line of Sight (FBLOS) program.

### **UHF Follow-On/MUOS**

The UHF Follow-On (UFO) satellites are ultra-high-frequency (UHF) and extremely high-frequency (EHF) communications spacecraft for Department of Defense tactical and strategic applications worldwide. The Mobile User Objective System (MUOS) satellites will increase DoD narrowband UHF capacity by approximately 1,300 percent over current capabilities. Lockheed Martin is the prime, with L3Harris providing the satellite's unfurlable mesh reflector. The first MUOS satellite was launched in February 2012. Eleven UFO spacecraft and five MUOS spacecraft have been produced.

**L3 Harris****Wideband Global Satcom**

The Wideband Global Satcom system (previously known as the Wideband Gapfiller Satellite system) will augment the current DSCS and Global Broadcast Service military satellite communications (milsatcom) operations to allow dissemination of real-time information to forces and commanders on the ground, at sea, and in the air. Boeing is the prime; Harris is producing the satellite's Ka-band antennas and Ka-band satellite earth terminals.

With demand for bandwidth continuing to grow, the Air Force is expected to take delivery of 10 WGS satellites. All six of the originally planned WGS systems are in orbit, along with three of four additional satellites. The 10th, and, at the time, final, satellite was launched in 2019. However, in 2018, Congress added two additional WGS satellites (WGS-11 and WGS-12) in the FY18 omnibus spending bill. Congress was always a strong supporter of the WGS program. WGS-11 is planned to be delivered by November 2023.

**Wide Field Infrared Survey Telescope**

In November 2018, NASA awarded a \$195.9 contract to Harris for the Optical Telescope Assembly (OTA) for the agency's Wide Field Infrared Survey Telescope (WFIRST) mission. Harris will provide the personnel, services, materials, equipment, and facilities necessary to build, refurbish, or modify the OTA. The work will be performed at Harris' facility in Rochester, New York, and at Goddard Space Flight Center in Greenbelt, Maryland.

**Unmanned Vehicles**

L3Harris provides a range of transmitters, receivers, amplifiers, and components supporting UAV video and tactical data downlink and uplink applications. The company also produces EO/IR payloads and tactical datalinks for a variety of UAV systems.

**APEX**

In 2014, L3Harris introduced the APEX (Airborne Pursuit and Exploitation), a small electrically powered tactical UAV. The APEX is a rail-launched system that uses a parachute for recovery. The UAV can carry a gimbaled, electro-optical, and cooled infrared payload suitable for day/night operations (including in hot weather). Company officials said the APEX is already in use with an undisclosed U.S. customer.

**EMD**

The Mark 8x Expendable Mine Destructor (Mk 8x EMD) vehicle is a small, self-propelled weapon for the destruction of bottom and moored mines. The program provides a mine destruction system that can be used from U.S. Navy helicopters. The system is designed as

an autonomous mine disposal vehicle for use by mine countermeasures forces.

**FVR-90**

This is a Fixed Wing Vertical Takeoff and Landing (VTOL) Rotator Unmanned Aerial System (UAS). The system features L3Harris' Hybrid Quadrotor technology, which combines the vertical takeoff and landing (VTOL) capabilities of a quadrotor and the efficiency, speed, and range of a normal fixed-wing aircraft. According to the company, the FVR-90 is a Group 3 UAS, with the footprint and logistics tail of a Group 2 system. The system is being offered in the U.S. Army's Future Tactical Unmanned Aerial System (FTUAS) competition (see entry in **Teaming/Competition/Joint Venture** section above).

**Iver PW**

In April 2018, L3 Technologies unveiled its new Iver Precision Workhorse (Iver PW) autonomous undersea vehicle. The Iver PW is the first in a family of advanced, highly capable military AUVs to address a wide variety of customer missions, including multidomain intelligence, surveillance, and reconnaissance (ISR), anti-submarine warfare (ASW), seabed warfare, and mine warfare.

**Mobius**

L3's Mobius optionally piloted aircraft (OPA) system is designed to fulfill a wide range of unmanned ISR and reconnaissance, surveillance, and target acquisition (RSTA) missions. The aircraft can also be flown in a manned configuration, providing flexibility for operations, training, and R&D. Mobius has been designed for low- and medium-altitude, long-endurance ISR. Provisions have been made for carriage and release of external stores.

**T7 Robotic System**

This is a remotely controlled bomb disposal robot for use in demanding and extreme-hazard environments. Under Project Starter, the U.K. is receiving a new small UGV. In 2017, the U.K. selected Harris and its T7 robotic vehicle to meet this requirement. The program involves the initial purchase of 56 UGVs, with an option for 30 additional robotic vehicles. Further purchases could occur in the future. The new UGV is required to fit within existing EOD vehicles, including Pinzgauers and Mastiff IIIs.

**Viking**

L3 Unmanned Systems produces the Viking family of tactical UAVs. The Viking 300 is an affordable, compact UAV capable of performing a wide range of remote sensing, precision-dispensing, and other aerial robotic applications requiring long endurance and medium-size payload capacity.



## L3 Harris

The Viking 400-S UAV is integrated with autonomous takeoff and landing technology. Missions are flown using GPS waypoint navigation. Embedded sensor data processing provides automated multi-intelligence ISR

operations. Payload capacity for the Viking 400-S is 75-100 pounds, with nearly 7,000 cubic inches of payload volume.

## U.S. Contract Awards

Below is a listing of major contracts awarded to L3Harris Technologies, Harris, and L3 (and L-3) Technologies by the United States government in the past two years (contracts as of press date). Note that the Description section is excerpted directly from U.S. DoD listings. For full details on contracts and their associated modifications, visit <https://www.defense.gov/Newsroom/Contracts/>

### L3Harris Technologies

Date	Award (USD millions)	Contract #	Description
9/18/19	12.9	F19628-02-C-0010	THIS MODIFICATION PROVIDES SUSTAINMENT SUPPORT FOR THE EGLIN FPS (ARMY, NAVY/FIXED GROUND DETECTING/RANGE & BEARING SEARCH) -85 RADAR.
9/27/19	8.1	F19628-02-C-0010	THIS MODIFICATION PROVIDES SUSTAINMENT SUPPORT FOR THE NSDC AT SCHRIEVER, CO, WHICH IS HOUSED WITHIN THE DISTRIBUTED SPACE COMMAND & CONTROL – DAHLGREN PROGRAM OF RECORD.
9/27/19	17.9	F19628-02-C-0010	MODIFICATION TO A PREVIOUSLY AWARDED CONTRACT FOR FISCAL YEAR 2020 DISTRIBUTED SPACE COMMAND & CONTROL – DAHLGREN (DSC2-D) SUSTAINMENT SUPPORT.
9/30/19	48.7	N00030-18-C-0001	MODIFICATION TO EXERCISE AN OPTION TO A PREVIOUSLY AWARDED & ANNOUNCED CONTRACT AND AWARD TWO NEW PROCUREMENT CONTRACT LINE ITEM NUMBERS (CLIN) TO PROVIDE SUPPORT IN THE ACQUISITION & ENGINEERING OF BOTH ON-BOARD & OFF-BOARD FTI SYSTEMS.
10/31/19	9.3	F19628-02-C-0010	MODIFICATION TO A PREVIOUSLY AWARDED CONTRACT FOR SUSTAINMENT OF THE GROUND-BASED ELECTRO-OPTICAL DEEP SPACE SURVEILLANCE (GEODSS) WEAPONS SYSTEM.
11/8/19	51.8	N00019-16-G-0003	THIS ORDER PROCURES MODIFICATIONS TO THE ALQ-214A(V)4 INTEGRATED DEFENSIVE ELECTRONIC COUNTERMEASURES SYSTEM.
11/21/19	9.7	N68335-16-D-0019	THIS MODIFICATION INCREASES THE CEILING OF THE CONTRACT TO PROCURE ADDITIONAL LIGHTENING PROTECTION, MOVING TARGET INDICATOR (MTI) REFLECTORS, REFURBISHED MTI FEEDHORNS, AND OPERATOR WORKSTATIONS FOR PRECISION APPROACH RADAR SYSTEMS IN SUPPORT OF ALL NAVY, AIR FORCE & MARINE CORPS MANNED AIRCRAFT.

**L3 Harris**

Date	Award (USD millions)	Contract #	Description
12/23/19	100.0	H92401-20-D-0002	SUPPORT OF U.S. SPECIAL OPERATIONS COMMAND (USSOCOM) FOR THE SATELLITE DEPLOYABLE NODE (SDN) SERVICE LIFE EXTENSION PROGRAM (SLEP). SLEP WILL UPGRADE THE SPECIAL OPERATION FORCES LEGACY SATELLITE COMMUNICATION TERMINALS, SPECIFICALLY, THE SDN-MEDIUM (1.2 METER APERTURE TERMINAL OPERATING IN THE X, KU & KA BANDS) TERMINALS PREVIOUSLY PURCHASED & FIELDIED UNDER CONTRACT H92222-12-D-0020.
<b>2020</b>			
1/3/20	28.0	FA8621-20-C-0011	F-16 TRAINING SYSTEM UPGRADE. THIS CONTRACT IS FOR THE UPGRADE TO EXISTING HELLENIC AIR FORCE F-16 AIRCREW TRAINING DEVICES TO THE F-16V CONFIGURATION.
1/3/20	9.4	FA8620-C0-0-01	REPAIR & RETURN ON THE PRIME MISSION EQUIPMENT & SYSTEM INTEGRATION LABORATORY (SIL) EQUIPMENT, SUPPORT OF THE FIELD SERVICE REPRESENTATIVE, PROGRAM MANAGEMENT, CORE/FIELD ENGINEERING, SIL DEPOT SUSTAINMENT, DEPOT INVENTORY & OBSOLESCENCE MANAGEMENT.
1/11/20	12.9	F19628-02-C-0010	CONTRACT FOR THE NATIONAL SPACE DEFENSE CENTER (NSDC) SUSTAINMENT EFFORT. THIS MODIFICATION PROVIDES SUSTAINMENT SUPPORT FOR THE NSDC AT SCHRIEVER CO, CO, WHICH IS HOUSED WITHIN THE DISTRIBUTED SPACE COMMAND & CONTROL – DAHLGREN PROGRAM OF RECORD.
1/15/20	12.9	F19628-02-C-0010	NATIONAL SPACE DEFENSE CENTER (NSDC) SUSTAINMENT EFFORT. THIS MODIFICATION PROVIDES SUSTAINMENT SUPPORT FOR THE NSDC AT SCHRIEVER CO, CO, WHICH IS HOUSED WITHIN THE DISTRIBUTED SPACE COMMAND & CONTROL – DAHLGREN PROGRAM OF RECORD.
1/24/20	11.5	FA8538-20-D-0003	REPAIR SERVICES OF ELECTRONIC FLIGHT INDICATORS & RADAR DISPLAY UNITS FOR THE C-130H HERCULES.
2/5/20	?	N00024-20-D-6336	A FFP, FPIF-TARGET, CPIF, CPFF & COST ONLY INDEFINITE-DELIVERY/INDEFINITE-QUANTITY, MULTIPLE AWARD CONTRACT (IDIQ-MAC) TO SUPPORT THE UNMANNED SURFACE VEHICLE FAMILY OF SYSTEMS. THE IDIQ-MACS HAVE A FIVE-YEAR BASE PERIOD & ONE FIVE-YEAR ORDERING PERIOD OPTION, WHICH, IF EXERCISED, WOULD BRING THE CUMULATIVE VALUE OF THIS CONTRACT TO \$982,100,000. THESE BUSINESSES WILL HAVE THE OPPORTUNITY TO COMPETE IN THE AWARDED FUNCTIONAL AREA FOR INDIVIDUAL DELIVERY ORDERS.
2/11/20	48.7	H92241-20-D-0001	COST REIMBURSABLE CONTRACT FOR THE SUITE OF INTEGRATED RADIO FREQUENCY COUNTERMEASURES PROGRAM FOR U.S. SPECIAL OPERATIONS COMMAND (USSOCOM).
2/7/20	59.1	W56HZV-15-C-0119	235 EHYDRO-MECHANICALLY PROPELLED OPERATIONAL RELIABILITY [THOR] II TRANSMISSION 800S IN A MIX OF BOTH NEW & REMANUFACTURED CONFIGURATIONS.

**L3 Harris**

Date	Award (USD millions)	Contract #	Description
2/19/20	32.1	FA8819-19-C-0002	COMBAT MISSION SYSTEMS SUPPORT SUSTAINMENT OPTION YEAR ONE.
2/25/20	23.0	FA8823-20-C-0004	CONTRACT FOR TRANSITION-ON & GROUND BASED ELECTRO-OPTICAL DEEP SPACE SURVEILLANCE UPGRADE TECHNICAL MATURATION & RISK REDUCTION ON THE MAINTENANCE OF SPACE SITUATIONAL AWARENESS INTEGRATED CAPABILITIES (MOSSAIC) ACQUISITION. MOSSAIC WILL PROVIDE SUSTAINMENT SERVICES FOR CURRENT & FUTURE GROUND-BASED SPACE SITUATIONAL AWARENESS (SSA) SENSORS, SSA COMMAND & CONTROL SYSTEMS, AND SPACE BATTLE MANAGEMENT COMMAND & CONTROL CAPABILITIES IN THE SPACE & MISSILE SYSTEM CENTER SPACE DOMAIN AWARENESS DIV SPECIAL PROGRAMS - GROUND PORTFOLIO.
2/25/20	14.7	N00039-14-C-0041	THIS MODIFICATION PROVIDES FOR THE EXERCISE OF FFP OPTIONS FOR COMMERCIAL BROADBAND SATELLITE PROGRAM UNIT LEVEL VARIANT (ULV) HARDWARE PRODUCTION UNITS. ULV PROVIDES TERMINAL-TO-SHORE, SPACE & TERRESTRIAL CONNECTIVITY TO SIGNIFICANTLY INCREASE THROUGHPUT FOR COMMERCIAL SATELLITE COMMUNICATION & PROVIDES REDUNDANCY FOR MILITARY SATELLITE COMMUNICATIONS.
3/1/20	383.2	M67854-20-D-2029	PURCHASE OF RADIO SYSTEMS WITH NATIONAL SECURITY AGENCY CERTIFIED TYPE 1 ENCRYPTION, RADIO ANCILLARIES, PROVISIONING KITS & REQUIRED DOCUMENTATION FOR THE PROCURED HIGH FREQUENCY (HF) RADIO SYSTEMS.
3/13/20	14.2	N00024-16-C-5366	EXERCISE OPTIONS FOR MK 20 MOD (AUTOMATIC GRENADE LAUNCHER) 1 ELECTRO-OPTICAL SENSOR SYSTEMS, RADAR CROSS-SECTION KITS, SHOCK RING KITS & SPARES FOR BOTH THE NAVY & COAST GUARD (USCG).
3/16/20	10.9	P00029-19-F-6251	F-16 AIRCRAFT SIMULATOR TRAINING PROGRAM SERVICES. THIS MODIFICATION WILL PROVIDE CONTRACTOR LOGISTICS SUPPORT TO MANAGE, MAINTAIN, AND SUPPORT THE F-16 SIMULATORS TRAINING PROGRAM TO INCLUDE ALL TRAINING DEVICES, SOFTWARE, FIRMWARE, SPARES & THE TRAINING SYSTEM SUPPORT CENTER.
3/18/20	73.7	N66604-20-D-E003	PROCUREMENT OF MATERIALS & SERVICES TO DESIGN, DEVELOP, FABRICATE, TEST, INSTALL, DOCUMENT & DELIVER RAPID PROTOTYPE SOLUTIONS IN SUPPORT OF THE UNDERSEA WARFARE/UNDERSEA DEFENSIVE FAMILY OF SYSTEMS.
3/20/20	19.4	W15QKN-19-C-0040	PROCUREMENT OF APPLICATION SPECIFIC INTEGRATED CIRCUIT CHIPS.
3/24/20	85.0	FA8620-20-F-4837	ENGINEERING, PROCUREMENT & FABRICATION WHICH WILL RESULT IN PHASE ONE MODIFICATION TO THE MISSION AIRCRAFT.



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Date	Award (USD millions)	Contract #	Description
3/27/20	?	FA8808-20-D-0002	A \$500,000,000 CEILING, INDEFINITE-DELIVERY/INDEFINITE-QUANTITY CONTRACT WITH CORRESPONDING DELIVERY ORDERS VALUED AT \$37,639,960 FOR RAYTHEON CO., AND \$30,604,891 FOR L3-HARRIS, TO DEVELOP PROTECTED TACTICAL WAVEFORM CAPABLE MODEMS. THIS CONTRACT PROVIDES FOR RESEARCH, DEVELOPMENT & PRODUCTION OF PROTECTED TACTICAL WAVEFORM CAPABLE MODEMS FOR TACTICAL SATELLITE COMMUNICATION OPERATIONS.
3/30/20	7.0	SPRBL1-20-D-0039	PRODUCTION OF THE MX-12389 IMAGE INTENSIFIER TUBES IN SUPPORT OF FIELD LEVEL MAINTENANCE OF THE AVS-6 NIGHT VISION IMAGING SYSTEM.
3/30/20	25.9	N00019-20-C-0056	PRODUCTION & DELIVERY OF 35 SHIP SETS COMPRISED OF BRU-75A & BRU-76A BOMB RACK UNITS (13 FOR THE NAVY; SEVEN FOR THE GOVERNMENT OF THE UNITED KINGDOM; FIVE FOR THE GOVERNMENT OF NORWAY; FOUR FOR THE GOVERNMENT OF NEW ZEALAND; & SIX FOR THE GOVERNMENT OF THE REPUBLIC OF KOREA IN SUPPORT OF P-8A LOTS 9-11 AIRCRAFT DELIVERIES.
3/31/20	7.8	?	A \$7,790,997 FFP MODIFICATION (P00031) TO PREVIOUSLY-AWARDED TASK ORDER FA8621-19-F-6251 FOR F-16 AIRCRAFT SIMULATOR TRAINING PROGRAM DEVICES. THIS MODIFICATION WILL PROCURE LONG LEAD ITEMS FOR THE PHASE ONE PRODUCTION OF THE CONSOLIDATED UNIT-LEVEL TRAINER.
4/6/20	9.3	FA8808-20-C-0040	CONTRACT FOR WIDE FIELD OF VIEW TESTBED WIDE-AREA SIX-DEGREE PAYLOAD PRE-LAUNCH & POST-LAUNCH SERVICES.
4/15/20	?	N00421-20-D-0096	\$7,143,500,000 FOR INDEFINITE-DELIVERY/INDEFINITE-QUANTITY CONTRACTS IN SUPPORT OF THE NAVAL AIR WARFARE CENTER, AIRCRAFT DIV. THESE CONTRACTS ARE FOR THREE DISTINCT LOTS, EACH WITH ESTABLISHED VENDOR POOLS SUPPORTING DIFFERENT REQ. WORK WILL BE PERFORMED AT THE CONTRACTOR'S LOCATIONS & AT GOVERNMENT FACILITIES. LOT I PROVIDES FULL RATE PRODUCTION OF MISSION SYSTEM AVIONICS. LOT II PROVIDES FULL RATE PRODUCTION OF OTHER AIRCRAFT COMPONENTS, PRODUCTION & INSTALLATION OF MODIFICATION KITS. LOT III PROVIDES FULL RATE PRODUCTION OF OTHER AIRCRAFT COMPONENTS, PRODUCTION & INSTALLATION OF MODIFICATION KITS.
4/21/20	27.4	W52P1J-20-C-0014	SUSTAINMENT & SUPPORT FOR THE FIELDIED MODERNIZATION OF ENTERPRISE TERMINALS & GSC-52 MEDIUM SATELLITE COMMUNICATIONS TERMINAL MODERNIZATION PROGRAMS.
4/30/20	65.0	W15QKN-17-C-0024	PURCHASE 169,738 OPTION V M734A1 MULTI-OPTION FUZES FOR MORTARS; 164,201 OPTION V M783 POINT DETONATING/DELAY FUZES; & FOR NON-RECURRING ENGINEERING COSTS.
4/30/20	50.0	SPRBL1-20-D-0027	PRODUCTION OF SPARE PARTS IN SUPPORT OF THE TSC-156D TACTICAL SUPER HIGH FREQUENCY SATELLITE TERMINAL (PHOENIX).

**L3 Harris**

Date	Award (USD millions)	Contract #	Description
4/30/20	7.4	W56HZV-20-F-0308	ILLUMINATOR INFRARED PARTS.
4/30/20	13.5	N32205-20-D-6714	CONTRACT FOR A BROAD RANGE OF PARTS & SERVICES TO MAINTAIN SHIPBOARD L3 ELECTRICAL & ELECTRONIC CONTROL MONITORING SYSTEMS & EQUIPMENT ON MILITARY SEALIFT COMMAND VESSELS.
5/5/20	76.0	FA8620-19-F-4872	CONTRACT FOR PROCUREMENT OF GROUP B MATERIALS, GROUND SYSTEMS INTEGRATION LAB & SUBCONTRACTS.
5/6/20	12.7	N00024-20-C-5211	ENGINEERING SERVICES & CAPABILITY DEVELOPMENT IN SUPPORT OF THE UNDERSEA WARFARE & SURFACE WARFARE SYSTEMS.
5/14/20	12.7	N00030-18-C-0001	PROVIDE SERVICES & SUPPORT FOR FLIGHT TEST INSTRUMENTATION
5/29/20	?	FA8612-20-D-0016	\$950,000,000 CEILING, INDEFINITE-DELIVERY/INDEFINITE-QUANTITY CONTRACTS FOR THE MATURATION, DEMONSTRATION & PROLIFERATION OF CAPABILITY ACROSS PLATFORMS & DOMAINS, LEVERAGING OPEN SYSTEMS DESIGN, MODERN SOFTWARE & ALGORITHM DEVELOPMENT IN ORDER TO ENABLE JOINT ALL DOMAIN COMMAND & CONTROL (JADC2). THESE CONTRACTS PROVIDE FOR THE DEVELOPMENT & OPERATION OF SYSTEMS AS A UNIFIED FORCE ACROSS ALL DOMAINS (AIR, LAND, SEA, SPACE, CYBER & ELECTROMAGNETIC SPECTRUM) IN AN OPEN ARCHITECTURE FAMILY OF SYSTEMS THAT ENABLES CAPABILITIES VIA MULTIPLE INTEGRATED PLATFORMS.
6/1/20	7.2	N00024-19-G-5500	DEVELOPMENT, TESTING & DELIVERY OF SPS-48G(V)1 RADAR DATA PROCESSOR & RADAR DISPLAY & CONTROL FUNCTION SOFTWARE, FIRMWARE UPDATES FOR THE I/Q PROCESSOR & SYNCHRONIZER & OTHER HARDWARE CHANGES.
6/4/20	90.0	W91CRB-16-D-5006	PROCURE HARRIS FAMILY OF RADIOS, ANCILLARIES, SPARE PARTS & SERVICES.
6/8/20	70.0	FA8522-20-D-0002	CONTRACT FOR ALQ-161A RADIO FREQUENCY SURVEILLANCE/ELECTRONIC COUNTERMEASURES SYSTEM LRUS & SHOP REPLACEABLE UNITS. THIS CONTRACT PROVIDES FOR THE REPAIR OF 154 NATIONAL STOCK NUMBERS APPLICABLE TO THE B1-B AIRCRAFT/ELECTRONIC COUNTERMEASURES.
6/12/20	44.5	W56HZV-20-C-0124	PROCURE HYDRO-MECHANICALLY PROPELLED TRANSMISSION, OPERATIONAL RELIABILITY, 800 SERIES TRANSMISSIONS IN TWO CONFIGURATIONS.
6/17/20	17.3	N00024-15-C-6250	PROCURE SPARE PARTS FOR THE PHOTONICS MAST PROGRAM.
6/25/20	11.7	N00421-17-C-0024	THIS MODIFICATION IS FOR THE PROCUREMENT OF 133 FIBRE CHANNEL NETWORK SWITCHES IN SUPPORT OF F/A-18 LOT 44 REQ FOR THE EA-18 GROWLER, F/A-18E/F SUPER HORNET & E-2D HAWKEYE AIRCRAFT.

**L3 Harris**

Date	Award (USD millions)	Contract #	Description
6/25/20	?	H92408-20-D-0001	SIX INDEFINITE-DELIVERY/INDEFINITE-QUANTITY CONTRACTS WITH A MAXIMUM COMBINED CEILING OF \$975,000,000 FOR MID-ENDURANCE UNMANNED AIRCRAFT SYSTEMS IV INTELLIGENCE, SURVEILLANCE & RECONNAISSANCE (ISR) SERVICES IN SUPPORT OF U.S. SPECIAL OPERATIONS COMMAND ENTERPRISE REQ WORLDWIDE. THIS MULTIPLE-AWARD ACQUISITION SUPPORTS COMPETITION AT THE TASK-ORDER LEVEL TO ENSURE THE MOST CAPABLE PLATFORMS & PAYLOADS PROVIDE REAL-TIME, RESPONSIVE AIRBORNE ISR SOLUTIONS TO SPECIAL OPERATIONS FORCES.
6/26/20	900.0	FA8621-20-D-0013	CONTRACT FOR SIMULATOR COMMON ARCHITECTURE REQ & STANDARDS (SCARS). THIS CONTRACT PROVIDES FOR THE DEFINITION, DESIGN, DELIVERY, DEPLOYMENT & SUSTAINMENT OF A SIMULATOR COMMON ARCHITECTURE ACROSS THE AIR FORCE'S TRAINING PORTFOLIO, ALONG WITH THE CREATION OF A SECURITY OPERATIONS CENTER & LIBRARY & THE EXECUTION OF SCARS MANAGEMENT SERVICES. THE SCARS INITIATIVE WILL ALSO INCREMENTALLY IMPLEMENT A MODULAR OPEN SYSTEMS APPROACH, AS WELL AS A SET OF COMMON STANDARDS FOR AIRFORCE SIMULATORS.
6/30/20	8.2	SPRPA1-20-G-CL01	ANTENNA ASSEMBLIES IN SUPPORT OF THE TRITON WEAPON PLATFORM.
7/2/20	25.7	N00024-20-C-6249	ENGINEERING & TECHNICAL SERVICES FOR THE DESIGN, DEVELOPMENT, TESTING, SYSTEM SUPPORT & PRODUCTION OF SUBMARINE PHOTONICS MASTS.
7/13/20	35.0	N00024-20-C-6312	DETAIL DESIGN & FABRICATION OF A PROTOTYPE MEDIUM UNMANNED SURFACE VEHICLE (MUSV).
7/22/20	73.8	HDTRA1-20-C-0038	X-RAY SIMULATORS FOR TEST & EVALUATION OF NUCLEAR SURVIVABILITY.
7/28/20	20.1	N00019-15-C-0093	THIS MODIFICATION EXERCISES OPTIONS FOR THE INSTALLATION OF AUXILIARY POWER UNITS, DIGITAL RED SWITCH SYSTEMS & FAMILY OF BEYOND LINE-OF-SIGHT TERMINALS/PRESIDENTIAL NATIONAL VOICE CONFERENCING MODIFICATIONS & ASSOCIATED SUPPORT ON TWO E-6B MERCURY AIRCRAFT.
7/29/20	64.2	?	TELEMETRY SECURITY PRODUCTS (TSP) & ANCILLARY SERVICES.
7/30/20	47.6	N00039-20-D-0065	DESIGN, DEVELOP, TEST, INTEGRATE & VERIFY THE NAVY WIDEBAND ANTI-JAM MODEM (WAM) & PROVIDE ENGINEERING SUPPORT SERVICES (ESS). WAM IS THE NAVY'S NEXT GENERATION WIDEBAND SATELLITE COMMUNICATIONS MODEM THAT WILL BE INTEGRATED WITH THE NAVY MULTIBAND TERMINAL ON SHIPS & SUBMARINES, AS WELL AS THE MODERNIZATION OF ENTERPRISE TERMINAL ON SHORE FOR COMMUNICATIONS OVER THE WIDEBAND GLOBAL SATELLITE COMMUNICATIONS CONSTELLATION.

**L3 Harris**

Date	Award (USD millions)	Contract #	Description
7/31/20	7.8	M67004-19-D-0002	EXERCISE ORDERING PERIOD ONE UNDER PREVIOUSLY AWARDED CONTRACT. THIS MODIFICATION PROVIDES FOR THE REFURBISHMENT OF MARINE CORPS RADIO COMPONENTS ASSOCIATED WITH CONTROLLED CRYPTOGRAPHIC COMMUNICATIONS.
7/31/20	104.0	N00019-20-C-0002	PROCURE 35 FULL RATE PRODUCTION LOT 17 INTEGRATED DEFENSIVE ELECTRONIC COUNTERMEASURES (IDECM) ALQ-214A(V)4 ONBOARD JAMMER (OBJ) SYSTEMS; 14 WEAPONS REPLACEABLE ASSEMBLIES (WRA)1 A(V)4S; 13 WRA2 A(V)4S, AND REPAIR OF TEST ASSETS & FIELD SUPPORT FOR IN SERVICE IDECM ALQ-214A(V)4 OBJ SYSTEMS.
8/17/20	55.0	FA8650-20-D-1960	TASK ORDERS FOR INNOVATIVE RESEARCH & DEVELOPMENT & TO PROVIDE THE INTEGRATED DEMONSTRATIONS & APPLICATIONS LABORATORY SIMULATION & TESTBED CAPABILITIES REQUIRED TO RAPIDLY DEVELOP, INTEGRATE, MATURE, INSERT & TRANSITION TECHNOLOGIES/SYSTEMS TO MEET CRITICAL/URGENT WARFIGHTER MISSION REQ.
9/11/20	22.2	HR0011-20-C-0145	CONTRACT FOR A RESEARCH PROJECT FOR THE SECURE ADVANCED FRAMEWORK FOR SIMULATION & MODELING (SAFE-SIM) PROGRAM. SAFE-SIM SEEKS TO BUILD A GO & CONTROLLED, FASTER-THAN-REAL TIME MODELING & SIMULATION ENVIRONMENT. THIS CAPABILITY WOULD ENABLE RAPID ANALYSIS SUPPORTING SENIOR-LEVEL DECISIONS FOR CONCEPT OF OPERATIONS DEVELOPMENT, FORCE STRUCTURE COMPOSITION, RESOURCE ALLOCATION & TARGETED TECHNOLOGY INSERTION.
9/15/20	37.1	M67854-20-D-0005	PURCHASE OF UP TO 163 M36E-T1 THERMAL SIGHT SYSTEMS, SPARES, SPECIAL TOOLS & TEST EQUIPMENT, NEW EQUIPMENT TRAINING & MANUALS, M36E-3 CONVERSIONS, ASSOCIATED NON-RECURRING ENGINEERING & ASSAULT AMPHIBIOUS VEHICLE FILTER WINDOWS.
9/15/20	53.0	SPRWA1-20-D-0011	BAND 4-8 COUNTERMEASURE RECEIVERS FOR B-1B AIRCRAFT.
9/16/20	13.5	FA8823-20-C-0004	SYSTEM SUSTAINMENT SERVICES OPTION YEAR 1. THIS MODIFICATION UPDATES & REVISES THE MAINTENANCE OF SPACE SITUATIONAL AWARENESS INTEGRATED CAPABILITIES SUSTAINMENT PERFORMANCE WORK STATEMENT REQ FOR THE CURRENT OPTION YEAR.
9/18/20	21.7	SPRPA1-20-C-V024	P-8 AIRCRAFT SONOBUOY ROTARY LAUNCHERS.
9/21/20	7.9	N00039-20-C-0030	PROCURE MULTI-FUNCTION MAST (OE-538B) ANTENNA GROUP & UPGRADE KITS AS A SECOND SOURCE.
9/21/20	7.4	N68335-20-C-0368	THIS CONTRACT PROVIDES FOR THE PRODUCTION & DELIVERY OF 1,168 UMBILICAL CABLES & ATTACHING HARDWARE FOR USE ON THE BOMB RACK UNIT (BRU)-55.

**L3 Harris**

Date	Award (USD millions)	Contract #	Description
9/21/20	119.2	FA8823-20-C-0004	GROUND-BASED ELECTRO OPTICAL DEEP SPACE SURVEILLANCE (GEODSS) SYSTEM UPGRADE ON GROUND-BASED OPTICAL SENSOR SYSTEM (GBOSS) ENGINEERING & MANUFACTURING DEVELOPMENT (EMD) PRE-PRICED OPTION.
9/23/20	90.0	FA8620-20-F-4837	ENGINEERING, PROCUREMENT & FABRICATION, WHICH WILL RESULT IN PHASE ONE MODIFICATION TO THE MISSION AIRCRAFT.
9/25/20	14.3	SPRRA1-20-D-0085	RADIO FREQUENCY & ANTENNA ASSEMBLIES.
9/25/20	41.2	FA8522-20-C-0001	ALQ-172 LINE REPLACEABLE UNIT (LRU)-21.
9/28/20	9.4	M67004-19-D-0002	REFURBISHMENT OF MARINE CORPS RADIO COMPONENTS ASSOCIATED WITH CONTROLLED CRYPTOGRAPHIC COMMUNICATIONS SYSTEMS. T
9/28/20	94.4	SPRDL1-20-C-211	M88A2 HERCULES RECOVERY VEHICLE DIESEL ENGINES.
9/28/20	10.5	N00421-19-C-0039	THIS MODIFICATION EXERCISES LOT 20 OPTION ITEMS TO PROCURE DIGITAL MAP COMPUTERS (DMCS) & DIGITAL VIDEO MAP COMPUTERS (DVMCS); 50 DMCS & 77 DVMCS IN SUPPORT OF SPARING FOR THE NAVAL SUPPLY SYSTEMS COMMAND; 24 DVMCS FOR THE NAVY IN SUPPORT OF THE F/A-18E/F AIRCRAFT; 16 DMCS FOR THE GOVERNMENT OF THE CZECH REPUBLIC; & THREE DMCS FOR THE GOVERNMENT OF BAHRAIN.
9/30/20	33.2	N00030-18-C-0001	ENGINEERING & SERVICES SUPPORT FOR FLIGHT TEST INSTRUMENTATION (FTI) & READINESS INSTRUMENTATION (RI) SYSTEMS OPERATED IN SUPPORT OF THE TRIDENT II D5LE FLIGHT TEST PROGRAM.
9/30/20	14.0	FA8620-20-C-0001	CONTRACT WITH SOME COST-REIMBURSABLE CONTRACT LINE ITEM NUMBERS FOR THE ETHERNET UPGRADE & POLYALPHAOLEFIN (PAO) PUMP & VALVE MODERNIZATION FOR THE REPUBLIC OF KOREA PEACE PIONEER PROGRAM.
9/30/20	31.1	N00024-16-C-6251	MODIFICATION TO PREVIOUSLY AWARDED CONTRACT TO EXERCISE FOR THE PRODUCTION OF TOWED ARRAYS.
10/5/20	193.6	HQ0850-21-C-0002	CONTRACT FOR THE SPACE DEVELOPMENT AGENCY TRACKING LAYER TRANCHE 0, WIDE FIELD OF VIEW PROGRAM.
10/6/20	44.6	FA8620-21-F-4866	ENGINEERING, PROCUREMENT & FABRICATION THAT WILL RESULT IN MODIFICATION, INSTALLATION & TEST OF THE AIRCRAFT MISSION SYSTEM.
10/20/20	87.7	M67854-21-D-2025	PURCHASE OF UP TO A MAXIMUM 169 PRODUCTION MARINE CORPS WIDEBAND SATELLITE - EXPEDITIONARY SYSTEMS.
10/22/20	23.8	FA8612-21-C-5007	CONTRACT TO PERFORM SURVIVABLE SUPER HIGH FREQUENCY (SSHF) UPGRADES TO THE E-4B PLATFORM.
10/23/20	9.1	FA8620-18-F-4816	THE CONTRACT MODIFICATION PROVIDES FOR THE EXERCISE OF A PRE-PRICED OPTION FOR ADDITIONAL MANAGEMENT SUPPORT SERVICES.

**L3 Harris**

Date	Award (USD millions)	Contract #	Description
10/30/20	97.5	FA8523-21-D-0001	PROVIDE REPAIR & RETURN (R&R) SERVICES FOR UNCLASSIFIED & CLASSIFIED LINE-REPLACEABLE UNIT/STANDARD EQUIPMENT MODULE ASSETS OF THE ALQ-211 (V)4, (V)8, AND (V)9 SYSTEMS OF THE AIRBORNE F-16 ADVANCED INTEGRATED DEFENSE ELECTRONIC WARFARE SUITE (AIDEWS) WEAPON SYSTEMS.
10/30/20	21.9	SPRRA1-21-D-0006	DATA LINK COMPATIBILITY MODULE COMPONENTS.
11/9/20	10.4	N00019-18-C-1030	THIS MODIFICATION EXERCISES OPTIONS TO PROCURE SIX SRQ-4 KITS & ASSOCIATED COMPONENTS FOR THE MH-60 COMMON DATA LINK SYSTEM FOR FMS CUSTOMERS.
11/9/20	7.9	N00383-18-G-NR01	REPAIR OF THE GUIDED TRAVELING WAVE TUBE IN SUPPORT OF THE F/A-18 AIRCRAFT.
11/12/20	24.5	FA8620-19-F-4872	PROCUREMENT OF GROUP B MATERIAL & THE GROUND SYSTEM INTEGRATION LAB.
11/16/20	38.0	FA8106-17-D-0001	CONTRACT FOR CONTRACTOR LOGISTIC SUPPORT OF THE AIR FORCE C-12 FLEET.
11/19/20	18.8	FA8620-18-F-4801	THIS MODIFICATION PROVIDES FOR ADDITIONAL NON-RECURRING & RECURRING ENGINEERING REQUIRED TO DEVELOP & INSTALL STRUCTURAL REINFORCEMENTS TO THE AIRCRAFT.
11/23/20	65.6	FA8106-18-C-0001	CONTRACTOR OPERATED & MAINTAINED BASE SUPPLY OF THE AIR EDUCATION & TRAINING COMMAND FLEET OF 178 T-1A TRAINER AIRCRAFT.
11/30/20	667.9	FA8504-21-D-0001	CONTRACT FOR C-130H UNSCHEDULED DEPOT-LEVEL MAINTENANCE/PROGRAMMED DEPOT MAINTENANCE IN SUPPORT OF ALL C-130 VARIANTS & C-130J MID-CYCLE PAINT IN SUPPORT OF C-130J VARIANTS.
12/8/20	13.1	W91CRB-21-C-5004	PROCUREMENT OF BINOCULAR NIGHT VISION DEVICES & ACCESSORIES
12/8/20	15.4	N00019-18-C-1030	PROCURE 12 SRQ-4 KITS & ASSOCIATED COMPONENTS FOR THE MH-60 COMMON DATA LINK SYSTEM.
12/11/20	14.0	N00030-18-C-0001	CONTRACT MODIFICATION FOR NEW PROCUREMENT OPTIONS UNDER PREVIOUSLY AWARDED & ANNOUNCED CONTRACT. THE WORK WILL PROVIDE SERVICES & SUPPORT FOR FLIGHT TEST INSTRUMENTATION (FTI) SYSTEMS
<b>2021</b>			
1/14/21	121.6	HQ0857-20-9-0001	THIS PROTOTYPE AWARD WAS COMPETITIVELY SOLICITED AMONG AWARDEES OF THE HYPERSONIC & BALLISTIC TRACKING SPACE SENSOR PHASE IIA EFFORT. UNDER THIS AWARD, THE PERFORMER WILL PROVIDE THE MISSILE DEFENSE AGENCY'S HYPERSONIC & BALLISTIC TRACKING SPACE SENSOR PROGRAM WITH AN ON-ORBIT PROTOTYPE DEMONSTRATION, CULMINATING WITH LAUNCH & EARLY ORBIT TESTING.
1/27/21	?	W56HZV-21-D-L032	L3HARRIS WILL COMPETE FOR EACH ORDER OF THE \$155,000,000 FFP CONTRACT FOR UNPROGRAMMED MAINTENANCE, EMERGENCY REPAIR, MODIFICATION & MODERNIZATION EFFORTS THAT DO NOT REQUIRE THE USE OF A DRY DOCK.

**L3 Harris**

Date	Award (USD millions)	Contract #	Description
1/27/21	89.7	FA8823-20-C-0004	SYSTEM SUSTAINMENT SERVICES OPTION YEAR TWO. THIS MODIFICATION UPDATES & REVISES THE MAINTENANCE OF SPACE SITUATIONAL AWARENESS INTEGRATED CAPABILITIES SYSTEM SUSTAINMENT PERFORMANCE REQ FOR THE CURRENT OPTION YEAR.
1/28/21	9.5	FA8823-20-C-0004	EXERCISING OPTION PERIOD TWO FOR SPACE SITUATIONAL AWARENESS INTEGRATED CAPABILITIES SYSTEM SUSTAINMENT SERVICES.
2/4/21	45.9	N68936-21-D-0006	ENGINEERING MAINTENANCE & REPAIR SUPPORT SERVICES FOR ADVANCED SELF-PROTECTION JAMMER AN/ALQ-165, INTEGRATED DEFENSIVE ELECTRONIC COUNTERMEASURES AN/ALQ-214, AND AIRCRAFT SELF-PROTECTION OPTIMIZATION SOFTWARE IN SUPPORT OF F/A-18 SERIES AIRCRAFT FOR THE NAVY & FMS CUSTOMERS.
2/12/21	8.2	N00030-18-C-0001	MODIFICATION FOR OPTIONS UNDER PREVIOUSLY AWARDED & ANNOUNCED CONTRACT. THE WORK WILL PROVIDE SERVICES & SUPPORT FOR FLIGHT TEST INSTRUMENTATION (FTI) SYSTEMS.
2/19/21	9.9	HR0011-20-S-0049	THE DEFENSE ADVANCED RESEARCH PROJECTS AGENCY RESILIENT NETWORKED DISTRIBUTED MOSAIC COMMUNICATIONS (RN DMC) PROGRAM, PHASE ONE. THIS CONTRACT PROVIDES FOR THE RESEARCH, DEVELOPMENT & DEMONSTRATION OF DISTRIBUTED COHERENT COMMUNICATIONS WITH AN EMPHASIS ON DEVELOPING A BI-DIRECTIONAL MOSAIC ELEMENT SYSTEM THAT WORKS WITH CURRENT TACTICAL RADIOS OPERATIONAL WAVEFORMS.
2/19/21	10.6	SPRMM1-21-F-TW00	ONE-TIME BUY CONTRACT FOR A RADIO FREQUENCY AMPLIFIER, DIVIDER/COMBINER & ISOLATOR.
2/25/21	18.5	N00039-14-C-0041	MODIFICATION TO EXERCISE PRICED OPTIONS TO PREVIOUSLY AWARDED FFP CONTRACT N00039-14-C-0041 ISSUED BY THE NAVAL INFORMATION WARFARE SYSTEMS COMMAND. THIS MODIFICATION INCREASES THE VALUE OF THE BASIC CONTRACT BY \$18,480,237; THE NEW TOTAL VALUE IS \$79,446,404. THIS MODIFICATION PROVIDES FOR THE EXERCISE OF FFP OPTIONS FOR COMMERCIAL BROADBAND SATELLITE PROGRAM UNIT LEVEL VARIANT (ULV) HARDWARE PRODUCTION UNITS. ULV PROVIDES TERMINAL-TO-SHORE, SPACE & TERRESTRIAL CONNECTIVITY TO SIGNIFICANTLY INCREASE THROUGHPUT FOR COMMERCIAL SATELLITE COMMUNICATIONS & PROVIDE REDUNDANCY FOR MILITARY SATELLITE COMMUNICATIONS.
3/3/21	72.4	N00039-14-C-0041	PROCURE 19 FULL RATE PRODUCTION LOT 18 INTEGRATED DEFENSIVE ELECTRONIC COUNTERMEASURES AN/ALQ-214 A(V)4 ONBOARD JAMMER SYSTEMS FOR THE F/A-18 AIRCRAFT. IN ADDITION, THIS MODIFICATION PROVIDES FOR THE PROCUREMENT OF 11 WEAPONS REPLACEABLE ASSEMBLY (WRA)1 A(V)4 RECEIVER/PROCESSORS; & 13 WRA2 A(V)4 MODULATORS FOR NAVY SUPPLY SYSTEMS COMMAND.

**L3 Harris**

Date	Award (USD millions)	Contract #	Description
3/23/21	9.0	FA8819-19-C-0002	CONTRACT FOR THE NATIONAL SPACE TEST & TRAINING RANGE (NSTTR) UNDER THE COMBAT MISSION SYSTEMS SUPPORT CONTRACT. NSTTR WILL CREATE THE DATA OPERATIONS & SUPPORTING INFRASTRUCTURE FOR ON-ORBIT TEST & EVALUATION OPERATIONS.
4/26/21	11.2	FA8823-20-C-0004	SYSTEM SUSTAINMENT SERVICES OPTION YEAR 2. THIS MODIFICATION UPDATES & REVISES THE MAINTENANCE OF SPACE SITUATIONAL AWARENESS INTEGRATED CAPABILITIES SYSTEM SUSTAINMENT PERFORMANCE WORK STATEMENT REQ FOR THE CURRENT OPTION YEAR, ADDS A COST-REIMBURSABLE CONTRACT LINE ITEM FOR RESEARCH, DEVELOPMENT, TEST & EVALUATION (RDT&E) PROPOSAL PREPARATION, AND ADDS ADDITIONAL INCREMENTAL FUNDING.
4/29/21	16.6	N00024-20-C-6205	EXERCISE OPTIONS FOR SYSTEM PRODUCTION & ASSOCIATED COMPONENTS IN SUPPORT OF ALL NEW-CONSTRUCTION & IN-SERVICE CLASS SUBMARINES.
5/5/21	13.3	N0042121C0028	EXERCISE AN OPTION FOR THE PROCUREMENT OF ENGINEERING SERVICES, PROGRAM MANAGEMENT, SYSTEMS ENGINEERING, SOFTWARE DEVELOPMENT, RISK MANAGEMENT, ALGORITHM & SOFTWARE PROTOTYPE DEVELOPMENT, CONFIGURATION MANAGEMENT, AND INFORMATION ASSURANCE.
5/20/21	438.0	H92241-20-D-0001	CONTRACT FOR THE SUITE OF INTEGRATED RADIO FREQUENCY COUNTERMEASURES PROGRAM. THIS MODIFICATION RAISES THE MAXIMUM ORDERING AMOUNT TO \$493,000,000 & ADDS PRICING FOR PROCUREMENT OF MODULES & PARTS.
5/21/21	96.4	H92241-21-D-0001	IMPROVED ROTARY-WING ELECTRO-OPTICAL/INFRA-RED SENSOR (IRES) PROGRAM IN SUPPORT OF U.S. SPECIAL OPERATIONS COMMAND (USSOCOM).
5/21/21	9.0	N0042121C0028	ENGINEERING INVESTIGATIONS, ECPS, INTEGRATION, TESTING, SPARES REPAIR PARTS, ENGINEERING & TECHNICAL SUPPORT IN SUPPORT OF THE FIBRE CHANNEL NETWORK SWITCH (FCNS-24) LOT 45 FULL RATE PRODUCTION.
5/27/21	18.9	N0001921C0031	THIS CONTRACT PROVIDES NON-RECURRING ENGINEERING & MATERIAL TO DEVELOP & QUALIFY THE DEGRADED VISUAL ENVIRONMENT HELMET MOUNTED DISPLAY & PROCESSOR CAPABILITY FOR INTEGRATION INTO THE MARINE CORPS MV-22B OSPREY AIRCRAFT.
5/27/21	?	FA8691-21-D-1011	A COMBINED \$950,000,000 MULTIPLE AWARD, FAIR OPPORTUNITY, INDEFINITE-DELIVERY/INDEFINITE-QUANTITY CONTRACTS WITH A FFP TASK ORDER. CONTRACTORS WILL PROVIDE VARIOUS FMS CUSTOMERS ENGINEERING ASSESSMENTS, PROCUREMENT OF INTELLIGENCE, SURVEILLANCE & RECONNAISSANCE (ISR) SENSORS & RELATED EQUIPMENT, INTEGRATION OF ISR SENSORS INTO NON-STANDARD AIRCRAFT, AND CONTRACTOR LOGISTICS SUPPORT FOR NON-STANDARD AIRCRAFT WITH ISR SENSORS.



**L3 Harris**

Date	Award (USD millions)	Contract #	Description
6/2/21	7.9	FA8621-21-C-0033	SUPPORT OF THE JOINT TERMINAL CONTROL (JTC) TRAINING & REHEARSAL SYSTEM (TRS) PROGRAM TO CONTINUE TO PROCURE, FIELD & SUPPORT UPGRADEABLE MISSION SIMULATION SYSTEMS THAT HAVE JOINT APPLICABILITY FOR TRAINING PERSONNEL IN ALL SERVICES. JTC TRS & JOINT THEATER AIR GROUND SIMULATION SYSTEM DEVICES WILL BE PROCURED AS PRODUCTION-READY SYSTEMS OR TRANSITIONED INTO THE PROGRAM TO SUPPORT JOINT TERMINAL ATTACK CONTROLLER TRAINING NEEDS.
6/11/21	18.1	N0001921C0064	THIS CONTRACT PROVIDES FOR THE PRODUCTION & DELIVERY OF 285 MODERNIZED RADIOS AS WELL AS ASSOCIATED ENGINEERING SUPPORT NECESSARY TO CALIBRATE & MAINTAIN SPECIAL TEST EQUIPMENT WHILE IN PRODUCTION.
6/15/21	8.1	FA8819-19-C-0002	MODIFICATION TO CONTRACT FOR THE SILENTBARKER RETINA EFFORT UNDER THE COMBAT MISSION SYSTEMS SUPPORT PROGRAM.
6/22/21	24.1	N00024-20-C-6249	EXERCISE OPTIONS FOR MATERIAL PRODUCTION & SPARES IN SUPPORT OF ALL NEW CONSTRUCTION & IN-SERVICE CLASS SUBMARINES.
6/24/21	24.7	N00024-16-C-6251	MODIFICATION TO PREVIOUSLY AWARDED CONTRACT TO EXERCISE AN OPTION FOR THE PRODUCTION OF NAVY EQUIPMENT.

**L3 Harris****Harris**

Date	Award (USD millions)	Contract #	Description
<b>2019</b>			
1/2/19	22.5	FA8604-19-D-4027	FORMATION OF A COLLABORATIVE WORKING GROUP OF VARIOUS INDUSTRY PARTNERS TO WORK AS SINGLE EXTENDED ENTITY TO DEVELOP, EVOLVE & UPDATE VIA PREPLANNED PRODUCT IMPROVEMENT INITIATIVES AS WELL AS MANAGE & PROVIDE CONFIGURATION CONTROL OF THE OPEN MISSION SYSTEMS & UNIVERSAL COMMAND & CONTROL INTERFACE STANDARDS, COLLECTIVELY REFERRED TO AS THE OPEN ARCHITECTURE STANDARDS.
1/24/19	72.3	FA8819-19-C-0002	COMBAT MISSION SYSTEMS SUPPORT (CMSS) PROGRAM.
2/21/19	14.7	N00039-14-C-0041	EXERCISE PRICED OPTIONS FOR COMMERCIAL BROADBAND SATELLITE PROGRAM(CBSP) UNIT LEVEL VARIANT (ULV) HARDWARE PRODUCTION UNITS.
2/21/19	168.8	N00019-17-C-0090	EXERCISES AN OPTION FOR THE PROCUREMENT OF 78 FULL-RATE PRODUCTION LOT 16 INTEGRATED DEFENSIVE ELECTRONIC COUNTERMEASURES ALQ-214 A(V)4/5 ONBOARD JAMMER SYSTEMS FOR THE F/A-18C/D/E/F AIRCRAFT FOR THE NAVY.
3/7/19	43.3	N00019-17-C-0090	MODIFICATION IS FOR THE PROCUREMENT OF ADDITIONAL FULL-RATE PRODUCTION LOT 16 INTEGRATED DEFENSIVE ELECTRONIC COUNTERMEASURES ALQ-214 A(V)4/5 ONBOARD JAMMER SYSTEMS FOR THE F/A-18 E/F AIRCRAFT FOR THE GOVERNMENT OF KUWAIT UNDER THE FMS PROGRAM.
4/23/19	27.7	FA8533-19-D-0001	PRODUCTION & REPAIR SERVICES FOR THE PLM-4 RADAR SIGNAL SIMULATOR SYSTEM.
4/25/19	50.0	SPRBL1-19-D-0029	PRODUCTION OF IMAGE INTENSIFYING TUBES IN SUPPORT OF T AVS-6 & AVS-9 AVIATOR'S NIGHT VISION IMAGING SYSTEM (ANVIS).
5/10/19	71.8	FA8522-19-C-0003	ENGINEERING SERVICES FOR ALQ-172 COUNTERMEASURES SYSTEMS, TO INCLUDE PERFORMING A FORM, FIT, FUNCTION & INTERFACE REPLACEMENT OF T ALQ-172 LINE REPLACEABLE UNIT (LRU)-2 & LRU-3 DOCUMENTS AND/OR TECHNICAL ORDERS.
6/21/19	18.1	FA8819-19-C-0002	AIR FORCE SATELLITE CONTROL NETWORK COMPLAINT L & S BAND ANTENNAS FOR THE SPACE COMBAT RANGE.
7/15/19	7.4	M67004-19-D-0002	REFURBISHMENT MARINE CORPS RADIO COMPONENTS ASSOCIATED WITH CONTROLLED CRYPTOGRAPHIC COMMUNICATIONS.
7/30/19	31.3	N00019-16-G-0003	PROCURE 77 GENERATION 2 DIGITAL RECEIVER / TECHNIQUE GENERATOR SHOP REPLACEABLE ASSEMBLIES (SRAS) & SWITCHBOARD ASSEMBLIES TO SUPPORT (V)4 TO A(V)4 CONVERSIONS & SRAS TO SUPPORT REPAIR OF REPAIRABLES ALONG WITH THE ASSOCIATED ALQ-214B(V)4/5 PART NUMBER CHANGE.

**L3 Harris**

Date	Award (USD millions)	Contract #	Description
8/5/19	18.7	N00164-19-D-JV38	PROCUREMENT OF & REPAIR OF VARIOUS RADIOS & ASSOCIATED COMMUNICATIONS EQUIPMENT FOR THE TACTICAL AIR CONTROL PARTY – MODERNIZATION (TACP-M) PROGRAM.
9/6/19	?	M67854-19-D-1501	A MAXIMUM \$249,000,000 FFP, INDEFINITE-DELIVERY/INDEFINITE-QUANTITY CONTRACT FOR THE PURCHASE OF SQUAD BINOCULAR NIGHT VISION GOGGLE SYSTEMS; SPARE & REPAIR PARTS; CONTRACTOR LOGISTICS SUPPORT & TEST ARTICLE REFURBISHMENT.
9/25/19	9.2	N00019-19-C-0081	PROCUREMENT OF 79 MASS STORAGE UNITS & 198 BULK DATA CARTRIDGES TO INTEGRATE DISTRIBUTING TARGETING SYSTEM (DTS) CAPABILITIES INTO THE F/A-18E/F & EA-18G AIRCRAFT PRODUCTION.
9/27/19	10.1	N00421-17-C-0024	THIS MODIFICATION IS FOR THE PROCUREMENT OF 114 FIBRE CHANNEL NETWORK SWITCHES FOR THE U.S. NAVY & GOVERNMENT OF KUWAIT EA-18G, F/A-18E/F, E-2D AIRCRAFT, INCLUDING TWO UNITS FOR THE NAVAL AIR WARFARE CENTER AIRCRAFT DIV'S MANNED FLIGHT SIMULATOR LABORATORY.
9/30/19	9.9	N00421-19-C-0039	PROCURE 23 DIGITAL MAP COMPUTERS (DMC) & 72 DIGITAL VIDEO MAP COMPUTERS (DVMC) FOR NAVAL SUPPLY SYSTEMS COMMAND (NAVSUP), 28 DMCS & 24 DVMCS FOR THE NAVY & 13 DMCS FOR THE GOVERNMENT OF BAHRAIN.
9/30/19	10.1	N00421-17-C-0024	THIS MODIFICATION IS FOR THE PROCUREMENT OF 114 FIBRE CHANNEL NETWORK SWITCHES FOR THE NAVY & GOVERNMENT OF KUWAIT EA-18G, F/A-18E/F, E-2D AIRCRAFT, INCLUDING TWO UNITS FOR THE NAVAL AIR WARFARE CENTER AIRCRAFT DIV'S MANNED FLIGHT SIMULATOR LABORATORY.
10/29/19	20.0	HQ0857-20-9-0001	A FFP PROTOTYPE AWARD WITH A TOTAL VALUE OF \$19,994,752 THROUGH THE MISSILE DEFENSE AGENCY'S AUTHORITY UNDER 10 U.S. CODE – 2371B.

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Date	Award (USD millions)	Contract #	Description
<b>2019</b>			
1/7/19	12.6	N00019-18-C-1030	CONTRACT TO MANUFACTURE, TEST, DELIVER, MANAGE, AND SUPPORT THE COMMON DATA LINK HAWKLINK SRQ-4 SYSTEMS FOR THE MH-60R AIRCRAFT.
1/12/19	?	N61340-19-D-1010	INDEFINITE-DELIVERY/INDEFINITE-QUANTITY CONTRACTS. THESE CONTRACTS PROVIDE FOR LOGISTICS SERVICES FOR THE CONTRACTED MAINTENANCE, MODIFICATION, AIRCREW & RELATED SERVICES (CMMARS) PROGRAM IN SUPPORT OF AVIATION PLATFORMS OF VARIOUS NAVY & AIR FORCE TYPE/MODEL/SERIES AIRCRAFT, INTER-RELATED SYSTEMS, SUBSYSTEMS, AND SERVICES. CMMARS WILL PROVIDE CONTRACTOR LOGISTICS SERVICES FOR FIXED-WING, ROTARY-WING, UNMANNED AIRCRAFT VEHICLES, AND LIGHTER THAN AIR VEHICLES, AS WELL AS INTEGRALLY RELATED SYSTEMS & WEAPON SYSTEMS. LOGISTICAL SUPPORT TO BE PROVIDED INCLUDES LOGISTICS FUNCTIONS & MAINTENANCE TASKS REQUIRED TO KEEP U.S. & FMS CUSTOMERS AIRCRAFT READY, AVAILABLE, AND OPERATING WORLDWIDE. CMMARS MAY BE USED FOR PLATFORMS AT ALL PHASES OF THE ACQUISITION LIFE CYCLE. THE ESTIMATED AGGREGATE CEILING FOR ALL CONTRACTS IS \$12,599,999,930, WITH THE COMPANIES HAVING AN OPPORTUNITY TO COMPETE FOR INDIVIDUAL ORDERS.
1/24/19	68.9	W56JSR-17-D-0006	MODIFICATION TO CONTRACT TO TEST, INSPECT & REPAIR COMPONENTS OF THE CSS VSAT TSC-183A SYSTEM.
1/30/19	16.1	N00019-19-D-0009	PROCURE A MAXIMUM QUANTITY OF 840 TECHNICALLY REFRESHED MULTI-FUNCTION DISPLAYS FOR RETROFITS & SPARES IN SUPPORT OF THE AH-1Z & UH-1Y AIRCRAFT.
1/31/19	18.7	N00019-13-D-0007	THIS MODIFICATION EXTENDS THE PERIOD OF PERFORMANCE & THIS MODIFICATION PROVIDES AL LOGISTICS SERVICES & MATERIALS FOR ORGANIZATIONAL & DEPOT LEVEL REPAIRS REQUIRED TO SUPPORT & MAINTAIN THE TH-57 FLEET.
2/14/19	23.4	N00421-19-D-0031	PROVIDE CONTRACTOR OWNED & OPERATED AIR FOR AIRBORNE THREAT SIMULATION CAPABILITIES TO TRAIN SHIPBOARD & AIRCRAFT SQUADRON WEAPON SYSTEMS OPERATIONS & AIRCREW TO COUNTER ENEMY ELECTRONIC WARFARE & ELECTRONIC ATTACH OPERATIONS.
2/14/19	29.6	N00024-19-G-2304	MANUFACTURE, INTEGRATION, TEST & DELIVERY OF THE TACTICAL COMMON DATA LINK MARITIME SHIPBOARD TERMINAL SURFACE TERMINAL EQUIPMENT (TCDL MST STE) SYSTEM.
2/25/19	19.3	N00024-15-C-6252	OPTIONS FOR THE PRODUCTION OF THE UNIVERSAL MODULAR MAST. THE UNIVERSAL MODULAR MAST SERVES AS A LIFTING MECHANISM FOR VA CLASS MAST PAYLOADS.

**L3 Harris**

Date	Award (USD millions)	Contract #	Description
2/28/19	85.0	?	AIRCRAFT ENGINEERING, PROCUREMENT & FABRICATION. WORK WILL BE PERFORMED IN GREENVILLE, TX.
2/28/19	21.4	N00019-10-0-11	THIS MODIFICATION EXERCISES AN OPTION FOR ORGANIZATIONAL, INTERMEDIATE, AND DEPOT LEVEL MAINTENANCE, LOGISTICS, AND ENGINEERING SUPPORT FOR NAVY T-45 AIRCRAFT, AIRCRAFT SYSTEMS, AND RELATED SUPPORT EQUIPMENT.
3/1/19	8.7	N00024-15-C-6250	EXERCISE OPTIONS FOR THE PRODUCTION OF LOW PROFILE PHOTONICS MAST.
3/14/19	13.4	W58RGZ-17-D-0081	REMOTE OPERATED VIDEO ENHANCED RECEIVER HARDWARE PRODUCTION.
3/21/19	131.8	FA8213-19-D-0006	COCKPIT-SELECTABLE HEIGHT-OF-BURST SENSOR.
3/22/19	48.4	FA8620-16-G-3027	THIS MODIFICATION PROVIDES FOR NON-RECURRING ENGINEERING FOR THE DESIGN EFFORT OF THE GROUND SYSTEM. WORK WILL BE PERFORMED IN GREENVILLE, TX.
3/22/19	43.1	N00024-16-C-6251	MODIFICATION TO PREVIOUSLY-AWARDED CONTRACT TO EXERCISE OPTIONS FOR THE PRODUCTION OF TB-29C TOWED ARRAYS.
3/27/19	142.0	FA8620-19-F-4872	UNDEFINITIZED CONTRACT ACTION FOR THE PROCUREMENT OF GROUP B MATERIAL & THE GROUND SYSTEM INTEGRATION LAB.
3/27/19	11.5	FA8620-19-F-4836	PROCUREMENT OF GROUND SYSTEM DEVELOPMENT & INTEGRATION.
3/28/19	8.3	HQ0147-19- -C650	MODELING & EXPERIMENTATION OF LASER INTERACTION WITH PLASMA.
3/29/19	10.8	W15QKN-17-C-0024	PROCUREMENT OF M734A1 MULTI-OPTION FUZE.
4/16/19	13.8	N00024-16-C-6239	OPTIONS FOR THE PRODUCTION OF TB-34A TOWED ARRAYS.
4/30/19	20.1	W15QKN-17-C-0024	MODIFICATION TO FMS (AUSTRALIA & LEBANON) CONTRACT FOR M783 POINT DETONATING/DELAY FUZE PRODUCTION.
5/8/19	13.7	N00019-1C-0-014	MODIFICATION TO A PREVIOUSLY AWARDED CPFF CONTRACT TO EXPAND THE ANALYSIS & DESIGN OF THE NEXT GENERATION JAMMER LOW BAND (NGJ LB) CONTROLLER, RECEIVER, EXCITER & POWER GENERATION SUBSYSTEMS.
5/8/19	79.4	N00024-16-C-5366	MK 20 MOD 1 ELECTRO-OPTICAL SENSOR SYSTEMS, RADAR CROSS SECTION KITS, SHOCK RING KITS, ENGINEERING SUPPORT SERVICES & SPARES FOR BOT NAVY & COAST GUARD.
5/21/19	11.6	W911QY-19-D-0036	PRODUCTION, ENGINEERING & LOGISTICAL SUPPORT.
5/28/19	8.0	W56HZV-15-C-0119	SYSTEM TECHNICAL SUPPORT.
5/30/19	24.2	W56HZV-15-C-0119	HYDRO-MECHANICALLY PROPELLED TRANSMISSIONS.
5/31/19	12.5	SPRRA2-19-C-0036	SEARCH, DETECTION, NAVIGATION, GUIDANCE, AERONAUTICAL & NAUTICAL SYSTEMS & INSTRUMENTS, AIRBORNE RADAR EQUIPMENT, AND NIGHT VISION EQUIPMENT.
6/4/19	499.6	FA8625-19-C-9000	MAJOR AVIONICS UPGRADE FOR 176 C-130H AIRCRAFT OPERATED BY THE NATIONAL GUARD & THE AIR FORCE RESERVE COMMAND.
6/4/19	46.5	FA8807-19-C-0001	NEXT-GENERATION APPLICATION SPECIFIC INTEGRATED CIRCUIT PRELIMINARY DESIGN REVIEW (PDR).

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Date	Award (USD millions)	Contract #	Description
6/7/19	41.4	N66604-19-D-A900	PROVIDE SUPPORT SERVICES TO SUSTAIN & ALLIED NAVY TRAINING & TEST & EVALUATION RANGES AROUND THE WORLD.
6/12/19	51.6	W15QKN-19-D-0067	FUZE MUNITION UNIT (FMU)-153 A/B POINT DETONATING/DELAY (PD/DLY) FUZES.
6/24/19	73.7	N66604-19-D-G900	PROVIDES FOR DEPOT-LEVEL REPAIR, UPGRADE & OVERHAUL SERVICES FOR SUBMARINE PHOTONICS MAST PROGRAMS.
6/25/19	41.5	N00039-19-D-0035	THE BATTLE FORCE TACTICAL NETWORK PROGRAM REQUIRES THE PROCUREMENT & INTEGRATION OF COMMERCIAL, OFF-THE-SHELF (COTS) HIGH-FREQUENCY INTERNET PROTOCOL & SUBNET RELAY HARDWARE, COTS SOFTWARE & GOVERNMENT OFF-THE-SHELF SOFTWARE INTO A SPECIFIED CONFIGURATION FOR THE PROGRAM EXECUTIVE OFFICE COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS & INTELLIGENCE.
6/28/19	25.9	W15QKN-19-C-0040	PROCUREMENT OF THE MELODY II APPLICATION-SPECIFIC INTEGRATED CIRCUIT CHIP. ONE BID WAS SOLICITED, WITH ONE BID RECEIVED.
6/28/19	9.3	FA8807-12-C-0011	MILITARY GLOBAL POSITIONING SYSTEM (GPS) USER EQUIPMENT.
7/25/19	99.5	W911QY-19-D-0051	FUTURE TACTICAL UNMANNED AERIAL SYSTEMS.
7/31/19	36.0	W56HZV-15-C-0119	HYDRO-MECHANICALLY PROPELLED TRANSMISSIONS.
8/1/19	10.4	?	MODIFICATION TO THE PREVIOUSLY AWARDED FA8621-19-6251 TASK ORDER FOR F-16 AIRCRAFT SIMULATOR TRAINING PROGRAM SERVICES.
8/19/19	7.9	W58RGZ-19-F-0636	PRODUCTION OF DUAL OUTPUT BATTERY ELIMINATOR RETROFITS & KU BAND DIRECTIONAL ANTENNAS ON THE MOVE UPGRADES.
8/29/19	33.1	N00164-19-D-WP70	PRODUCTION, REPAIR & ENGINEERING SERVICES OF THE AEGIS CROSS FIELD AMPLIFIERS. THE CROSS FIELD AMPLIFIERS ARE MICROWAVE TUBES INSTALLED IN THE SPY-1 RADAR SYSTEM USED ON BOARD THE DDG51 CLASS AEGIS DESTROYERS & CG 52 CLASS AEGIS CRUISERS.
9/16/19	9.4	W9124G-19-C-0006	ADVANCED HELICOPTER FLIGHT TRAINING SUPPORT SERVICES.
9/24/19	?	N61331-19-D-0011	A COMBINED \$48,000,000 FFP, INDEFINITE-DELIVERY/INDEFINITE-QUANTITY, MULTIPLE AWARD SUPPLY CONTRACT FOR THE PROVISION OF HARDWARE, MATERIALS, AND SUPPLIES TO SUPPORT THE EXPEDITIONARY WARFARE, MARITIME, LITTORAL & MINE WARFARE PROGRAMS. THE COMPANIES WILL COMPETE FOR INDIVIDUAL DELIVERY ORDERS.
9/26/19	180.4	N00019-14-D-0011	THIS MODIFICATION EXERCISES AN OPTION FOR ORGANIZATIONAL, INTERMEDIATE, AND DEPOT LEVEL MAINTENANCE, LOGISTICS, AND ENGINEERING SUPPORT FOR NAVY T-45 AIRCRAFT, AIRCRAFT SYSTEMS, AND RELATED SUPPORT EQUIPMENT.
9/30/19	92.0	FA8307-19-D-0001	TIME & MATERIAL CONTRACT FOR TELEMETRY & RF PRODUCTION & SUSTAINMENT SERVICES.
9/30/19	17.4	FA8621-19-C-0009	F-16 A/B BLOCK 15 SIMULATOR.
10/1/19	17.5	FA8620-18-F-4802	MODIFICATION FOR AIRCRAFT ENGINEERING, PROCUREMENT & FABRICATION.

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Date	Award (USD millions)	Contract #	Description
10/8/19	49.0	FA8750-20-C-1002	ADVANCED EXPLOITATION OF ELECTRONIC INTELLIGENCE SIGNALS SOFTWARE/HARDWARE. THIS CONTRACT PROVIDES FOR IMPROVED DETECTION, COLLECTION, CHARACTERIZATION & REPORTING ACCURACY OF EMERGING EMITTERS, AND IMPROVED REPORTING TIMELINESS; IMPROVED CLASSIFICATION OF SIGNAL FEATURE CHARACTERISTICS; & RESEARCH, DEVELOPMENT & DEMONSTRATION OF TECHNOLOGIES & ALGORITHMS FOR AUTOMATIC DETECTION, MEASUREMENT, PROCESSING & EXPLOITATION OF RADIO FREQUENCY EMISSIONS.
11/6/19	21.7	N00164-20-C-GM69	FLASH X-RAY MACHINE, A SHORT-PULSE GAMMA RAY MACHINE, AND A RADIATION SHIELDING DESIGN & INSTALLATION & TRAINING.
11/8/19	51.8	N00019-16-G-0003	THIS ORDER PROCURES MODIFICATIONS TO THE ALQ-214A(V)4 INTEGRATED DEFENSIVE ELECTRONIC COUNTERMEASURES SYSTEM.
11/12/19	24.5	FA8620-19-F-4872	PROCUREMENT OF GROUP B MATERIAL & THE GROUND SYSTEM INTEGRATION LAB.
11/13/19	16.0	W15QKN-19-C-0040	PROCURE A TOTAL OF 53,237 MELODY II APPLICATION-SPECIFIC INTEGRATED CIRCUIT CHIPS.
11/20/19	77.2	FA8106-18-C-0001	CONTRACTOR OPERATED & MAINTAINED BASE SUPPLY OF THE AIR EDUCATION & TRAINING COMMAND FLEET OF 178 T-1A TRAINER AIRCRAFT.
11/21/19	9.6	N68335-16-D-0019	PROCURE ADDITIONAL LIGHTENING PROTECTION, MOVING TARGET INDICATOR (MTI) REFLECTORS, REFURBISHED MTI FEEDHORNS & OPERATOR WORKSTATIONS FOR PRECISION APPROACH RADAR SYSTEMS IN SUPPORT OF ALL NAVY, AIR FORCE & MARINE CORPS MANNED AIRCRAFT.
12/2/19	10.0	N00019-18-C-1030	PROCURE EIGHT COMMON DATA LINK HAWKLINK SRQ-4 SYSTEMS FOR THE MH-60R AIRCRAFT.
12/4/19	37.5	N00164-20-D-JQ56	A \$37,500,000 FFP, INDEFINITE-DELIVERY/INDEFINITE-QUANTITY CONTRACT WITH A FIVE-YEAR ORDERING PERIOD FOR PRECISION AIMING LASERS (PAL). THIS IS A FIRST-TIME BUY FOR PAL.
12/6/19	18.0	FA8650-20-C-9313	CONTRACT FOR THE DEFENSE EXPERIMENTATION USING COMMERCIAL SPACE INTERNET (DEUCSI) CALL 002 VENDOR FLEXIBILITY EFFORT. THIS CONTRACT SEEKS TO ESTABLISH THE ABILITY TO COMMUNICATE WITH AIR FORCE PLATFORMS VIA MULTIPLE COMMERCIAL SPACE INTERNET CONSTELLATIONS USING COMMON USER TERMINAL HARDWARE ELEMENTS.
12/20/19	93.0	FA8606-20-D-0002	INDEFINITE-DELIVERY/INDEFINITE-QUANTITY CONTRACT FOR HIGH FIGURE OF MERIT (FOM) GREEN & WHITE IMAGE INTENSIFIER TUBES (IITS). THIS CONTRACT PROVIDES THE ENDURING CAPABILITY IITS FOR FIELDING TO AIR FORCE FOLLOWING THE COMBAT AIR FORCE URGENT OPERATIONAL NEED FOR THE HH-60 NIGHT VISION GOGGLES UPDATE FOR COMBAT SEARCH & RESCUE CREWS.
12/20/19	9.0	FA8620-18-F-4816	MANAGEMENT SUPPORT SERVICES. THIS MODIFICATION PROVIDES FOR ADDITIONAL MANAGEMENT SUPPORT SERVICES TO BE ADDED UNDER THE BASIC CONTRACT.

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Date	Award (USD millions)	Contract #	Description
12/23/19	17.0	N68335-15-G-0032	THIS ORDER EXTENDS RESEARCH & DEVELOPMENT EFFORTS UNDER SMALL BUSINESS INNOVATION RESEARCH PHASE III TOPIC N02-152 ENTITLED "ENVIRONMENTAL MISSION PLANNER THE TOTAL SOLUTION." THIS ORDER PROVIDES SOFTWARE DESIGN & DEVELOPMENT SUPPORT TO UPGRADE THE ACTIVE SYSTEM PERFORMANCE ESTIMATE COMPUTER TOOL.

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