



Raytheon

RAYTHEON CO.
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Employment: 77,500

Officers:
Chairman & CEO Daniel P. Burnham; **President** William H. Swanson;
Exec. VP of Business Development & Chairman/CEO Raytheon International Thomas M. Culligan; **Sr. VP & CFO** Edward S. Pliner

Aerospace Organization/Products:

Integrated Defense Systems [IDS] (Tewksbury, MA, USA):

Provides integrated air and missile defense and naval and maritime warfighting systems, including modeling and simulation capabilities for the Missile Defense Agency and strong global integrated capabilities for US Army, US Navy, US Marine Corps and technology customers. IDS combines the former Electronic Systems' Air & Missile Defense Systems and Naval & Maritime Integrated Systems businesses. Products and systems include the HAWK air defense system, the Patriot Air and Missile Defense system; the Surface-Launched AMRAAM system, the ground-based radar for the THAAD system, the ground-based radar prototype, the X-Band radar and, if approved, the upgraded early warning radars for the ground based mid-course defense mission; BMEWS, the Clear Radar Upgrade Program, Cobra Dane, Cobra Judy, JLENS and Pave PAWS. Also makes naval weapons and combat systems such as: AEGIS components, LPD-17 Ship System Integration, Mk46, Mk48 and Mk50 torpedoes. **Raytheon Marine-High Seas Division** (Kiel, Germany): Manufactures, distributes and services marine electronic products to merchant shipping, government and commercial fishing markets. **RF Components** (Andover, MA, USA): Provides high-performance integrated circuits and modules for wireless system manufacturers.

Intelligence & Information Systems [IIS] (Garland, TX, USA):

Provides intelligence and information technology solutions drawing on capabilities in signals, imaging and geospatial intelligence; air- and space-borne command and control; ground engineering support; and weather/environmental management. Products include Earth-Observing System Data and Information System (EOSDIS); Global Broadcast Service (GBS); Integrated Broadcast Service (IBS).

Missile Systems [MS] (Tucson, AZ, USA):

Designs, develops and produces: missile systems that include air-to-air, strike, surface Navy air defense, and land combat; guided projectiles; exoatmospheric kill vehicles and directed energy weapons. Products include AGM-65 Maverick (66,000), AGM-88 HARM (20,000), AGM-154 JSOW (1,020), AIM-7 Sparrow (68,000), AIM-9 Sidewinder (45,000), AIM-9X (150), AIM-120 AMRAAM (12,500), BGM-71 TOW (630,000), BGM-109 Tomahawk (4,964), FIM-92 Stinger (44,000), RIM-7 Evolved Sea Sparrow missile family (75,350) [includes air-launched NATO Sea Sparrow Missile (NSSM) and Evolved Sea Sparrow Missile (ESSM)], RIM-66/-67 Standard Missile, RIM-116A Rolling Airframe Missile (RAM). Also produces EX-171 Extended-Range Guided Munition, Javelin anti-armor missile (joint venture with Lockheed Martin) (8,300), Paveway family of laser-guided bombs (210,000). All production numbers as of 11/1/02. Phalanx shipboard air defense gun system and XM-982 Excalibur guided artillery round.

Network Centric Systems [NCS] (McKinney, TX, USA)

Develops and produces network centric solutions that integrate sensors, systems and secure communications to manage battlespace and airspace. NCS combines the former ES Tactical Systems and C³I/ C³S businesses. Produces air traffic control systems, including: Digital Airport Surveillance Radar/ASR-11, Air Traffic Control Beacon Interrogator (ATCBI-6), Standard Terminal Automation Replacement System (STARS), Wide Area Augmentation System (WAAS), Precision Runway Monitor and Skytrack air traffic management systems. Makes the Cooperative Engagement Capability (CEC) and communications systems including: Advanced Field Artillery Tactical Data System. Also produces airborne communications products that include: ARC-164, ARC-187, ARC-222; Enhanced Position Location Reporting System (EPLRS); Identification Friend or Foe (IFF) transponder and interrogator systems; Joint Tactical Terminal; MILSTAR terminals; Navy EHF/SHF satellite communications termi-

nals; Secure Mobile Anti-Jam Reliable Tactical Terminal (SMART-T); and System for the Vigilance of the Amazon (SIVAM). Manufactures infrared and thermal imaging systems such as: AN/AAQ-27 thermal imager, Horizontal Technology Integration (HTI), second-generation Flir program, Commanders Independent Thermal Viewer (CITV) for the M1A2 main battle tank, Improved Bradley Acquisition Subsystem (IBAS), High-performance Infrared (HIRE) fire control sight, drivers vision enhancer. **Commercial Infrared** (Dallas, TX, USA): Produces infrared thermal imaging cameras and technology for firefighting, law enforcement, security, industrial and automotive applications. **ELCAN Optical Technologies** (Midland, Ontario and Richardson, TX, all USA; Malaga, Spain): Design and manufacturing complex for precision opto-mechanical and electro-optical systems and subsystems for projection display, medical, industrial, automotive, defense and entertainment markets. Electronics contract manufacturing operation for chip-on-board, surface mount technology, wave soldering, and prototype development and production capabilities.

Raytheon Aircraft:

Raytheon Aircraft Co. (Wichita, KS, USA): Produces and supports piston-powered Beech Bonanza and Beech Baron; Beech 1900D and Beech King Air family, Beech T-6A trainer for JPATS program operating as the T-6A Texan 2 all turboprops; and Beechjet, Hawker 800XP and Premier I business jets. Hawker Horizon business jet is in test flight. Operates a network of business aviation service operations at airports across USA and in the UK and Mexico.

Raytheon Technical Services Company (Reston, VA, USA):

Provides technical, scientific and professional services for defense, federal, and commercial customers in three primary business areas: technical services, product support and depot services. Specializes in management, operation; maintenance of customer facilities, equipment and systems; logistics and life-cycle support; overhaul and repair depot operations; engineering, logistics and personnel support; space and earth sciences; test and training range support; and privatization of government services.

Space & Airborne Systems [SAS] (El Segundo, CA, USA):

Provides technology for space and airborne missions. SAS combines the former Electronic Systems' Surveillance & Reconnaissance Systems and Air Combat & Strike Systems (AC&SS) businesses. Produces airborne and spaceborne radars: AN/APG-63 for F-15, AN/APG-65 for AV-8B, AN/APG-70 for F-15, AN/APG-73 for F/A-18, AN/APG-181 for B-2, AN/AWG-9 for F-14. Sensors for Global Hawk and advanced synthetic aperture radar system (ASARS-2) for U-2, high-resolution synthetic aperture radar (HISAR) and Space-Based Infrared System-Low (SBIRS-Low), and the Advanced Targeting Forward-Looking Infrared (ATFLIR) system for F/A-18. Others include: AN/ALE-50 towed decoy, AN/ALR-67(V)3 electronic radar warning receiver and Mk6 Trident missile guidance electronics.

Subsidiaries:

Raytheon Systems Limited (RSL) (London, UK): Designs and manufactures technologies in defense and commercial electronics.

Joint Ventures:

Alliance Logistics Ltd., partner: PIK Facilities (Scotland, UK). **COMLOG**, partner: EADS (The Netherlands). **CSR**, partner: Computer Sciences Corp. (USA). **Kongsberg Defense and Aerospace**, partner: Kongsberg (Norway). **RGE Government Services Co.**, partner: Lockheed Martin Government Services (USA). **SpacePort Canada**, partner: Akjuit Aerospace Ltd. (Canada). **Systems for Defense/Gesellschaft fur Verteidigungs Systeme GmbH (GVS)**, partner: EADS (The Netherlands). **Thales Raytheon Systems**, partner: Thales (France). **Thoray Electronics**, partner: Thales Sintra ASM (France).

FINANCIALS (\$ MILLIONS):	2000	2001†	% Change
Operating Revenues	16,895	16,897	0%
Operating Expenses	1,625	759	(53%)
Net Profits	141	763	441%
Debt to Equity Ratio	—	—	—

†Values updated from 2002 Source Book.