



Backgrounder

Boeing in Singapore

Boeing and Singapore have worked in partnership for 70 years. In 1947, the then-named Malayan Airways Limited acquired its first DC-3 from Boeing heritage company Douglas Aircraft. Today, Boeing has a range of operations including commercial airplane and defense procurement, services and training, and advanced research collaboration with Singapore's public and private sectors.

Boeing's corporate office in Singapore supports customers throughout Southeast Asia. Business operations include Boeing Commercial Airplanes, Boeing Defense, Space & Security, Boeing Global Services and subsidiaries Aviall, Jeppesen and Insitu Pacific.

Ralph L. "Skip" Boyce has served as president of Boeing Southeast Asia since February 2008. He is responsible for strengthening the company's presence across the region and supporting Boeing growth and productivity opportunities.

Boeing Commercial Airplanes

Boeing Commercial Airplanes' relationship with Singapore dates back to the 1970s, when Singapore Airlines (SIA) embarked on a frequent fleet modernization strategy. Over the years, SIA has ordered 229 Boeing airplanes, including the McDonnell Douglas DC-10, 737, 747, 757, 777 and 787 Dreamliner.

SIA introduced 777s into its fleet in 1995, beginning with an order for 34 777s and options for an additional 43 777s. Today, Singapore Airlines is among one of the largest 777 operators in the world. The airline's cargo division, Singapore Airlines Cargo, operates several 747-400 freighters.

In 2013, SIA helped launch the Boeing 787-10 with an order for 30 aircraft. The national carrier also ordered 20 787s that were transferred to Scoot, its long-haul, low-cost subsidiary. Scoot took delivery of its first 787-9 Dreamliner in January 2015.

SilkAir, the regional wing of SIA, started its transition to an all-Boeing fleet after taking delivery of its first Next-Generation 737-800 in February 2014. The delivery was the first of a 54-airplane order, the largest in the airline's history, which included 737-800s and 737 MAX 8s.

BOC Aviation and Boeing have worked together for more than 20 years. The Singapore-based global aircraft leasing company placed its largest-ever order in August 2014 for 50 737 MAX 8s, 30 Next-Generation 737-800s and two 777-300ERs (Extended Range), valued at \$8.8 billion at list prices. In March 2017, the lessor took delivery of its 200th Boeing airplane. In August this year, BOC Aviation joined the new 737 MAX 10 launch group of customers with an order for 10 airplanes.

Boeing Global Services

Boeing Global Services is a dedicated services business designed to deliver complete solutions for the global customer's commercial, defense and space platforms.

Global Services provides unparalleled customer service to Singapore through agile, cost-competitive solutions and specialized capabilities in support of the broadest portfolio in the aerospace services market.

The Boeing Training & Professional Services Singapore campus opened in 2007, and is the company's largest aviation training facility in Asia. The facility supports training on the 737 MAX, Next-Generation 737, 777 and 787 Dreamliner training suites. Boeing's 2017 Pilot and Technician Outlook projects that Asia-Pacific will need 253,000 new pilots, 256,000 new technicians and 308,000 new cabin crew over the next 20 years through 2036.

In 2015, Boeing and SIA Engineering Company (SIAEC) formed Boeing Asia Pacific Aviation Services (BAPAS), a joint venture to provide industry-leading engineering, repair and maintenance services for Boeing airplanes. BAPAS combines Boeing's design, manufacturing and engineering knowledge with SIAEC's maintenance, repair and overhaul expertise to deliver Global Fleet Care Solutions to customers in Asia-Pacific. Boeing holds a 51 percent equity stake in the joint venture with the remaining 49 percent owned by SIAEC.

Boeing Global Services also provides maintenance support for Scoot's 787 Dreamliners and Singapore Airlines' 777-300ERs through its Global Fleet Care program.

Boeing Defense, Space & Security

Boeing has been a defense supplier to Singapore since the early 1990s. Singapore acquired the CH-47 Chinook, which has played a significant role in disaster relief operations around the world.

Most recently, four Republic of Singapore Air Force (RSAF) CH-47 Chinooks from the Peace Prairie detachment in Grand Prairie, Texas, provided assistance in the Texas Army National Guard's Hurricane Harvey disaster relief operations. The RSAF's Peace Prairie detachment has worked together with the Texas Army National Guard in the past, including relief operations after Hurricane Katrina in 2005, fire-fighting and flood relief operations in Texas in 2000 and Hurricane Floyd relief operations in North Carolina in 1999. The RSAF also flew missions to provide food, water and shelter to survivors of the 2004 tsunami in Indonesia and Thailand.

Singapore was the first country in Southeast Asia to select the AH-64D Apache Longbow. The Singapore Air Force's inventory also includes F-15SG multirole fighters.

Boeing Research & Technology

In 2005, Boeing and the Singapore Agency for Science, Technology and Research (A*STAR) signed a Master Research Collaboration Agreement (MRCA) to investigate and develop research projects of mutual interest for the aerospace industry.

Boeing joined a consortium of aerospace firms collaborating with A*STAR in the Science and Engineering Research Council (SERC) Aerospace Program in 2007. The program focuses on research in aerospace-support technologies, including defect inspection, manufacturing automation, non-disruptive testing and materials development. In 2012, Boeing started to harvest technologies with seven projects developed by the consortium and each year it identifies new technologies to be transitioned to Boeing from the consortium.

In 2008, Boeing and A*STAR's Institute for Infocomm Research (I²R) also entered into a multidisciplinary R&D collaboration agreement to focus on critical technology development in the area of smart factory. This collaboration centers on intelligent monitoring and advanced self-healing capabilities. The I²R-developed health monitoring devices and dashboard have since been installed in more than 300 machines in Auburn, Wash., as a pilot test. To date, the system's Intelligent Factor Alerts and Condition-Based Maintenance have resulted in \$11.2M in operational cost savings. Boeing continues to work with I²R in sensors and systems development such as clean rooms monitoring and composite inspection for improved productivity and efficiencies at our factories.

Boeing also joined Procter & Gamble in launching the Live Well Collaborative — Singapore. This is a consortium focused on the development of products and services for consumers who are 50 years of age and above. Boeing is focused on developing commercial aircraft interiors that are more inclusive to a wide range of physical capabilities.

Key Relationships

Singapore Technologies Aerospace

Singapore Technologies (ST) Aerospace is part of Boeing Global Services' international network of modification and engineering suppliers. The company provides services such as airframe maintenance and modifications, component and engine repair and overhaul, aviation resource management, and engineering and development.

As a maintenance, repair and overhaul provider, ST Aerospace specializes in airframe heavy maintenance for a wide range of commercial airplanes, including the 747, 767, MD-11 and DC-10. It also provides modification services for single- and twin-aisle aircraft. In 2007, ST Aerospace Aviation Services Company (SASCO) was named a Boeing supplier for the 767-300 Boeing Converted Freighter (BCF) program. SASCO inducted the program's first aircraft for conversion in October 2007. The first 767-300BCF was redelivered to launch customer ANA in June 2008.

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