= International airport =

An international airport is an airport that offers customs and immigration facilities for passengers travelling between countries. International airports are typically larger than domestic airports and often feature longer runways and facilities to accommodate the heavier aircraft commonly used for international and intercontinental travel. International airports often also host domestic flights. Some, such as Frankfurt Airport in Germany are very large; others such as Fa 'a'? International Airport in Tahiti, are quite small.

Buildings , operations and management have become increasingly sophisticated since the mid 20th century , when international airports began to provide infrastructure for international civilian flights . Detailed technical standards have been developed to ensure safety and common coding systems implemented to provide global consistency . The physical structures that serve millions of individual passengers and flights are among the most complex and interconnected in the world . By the second decade of the 21st century , there were over 1 @,@ 200 international airports and almost two billion international passengers along with 50 million metric tonnes of cargo were passing through them annually .

= = History = =

In August 1919, Hounslow Heath Aerodrome, in London, England was the first airport to operate scheduled international commercial services. It was closed and supplanted by Croydon Airport in March 1920. In the United States, Bisbee @-@ Douglas International Airport in Arizona became the first international airport of the Americas in 1928.

The precursors to international airports were airfields or aerodromes . In the early days of international flights , there was limited infrastructure , " although if engine problems arose there were plenty of places where aircraft could land " . Four @-@ engined land planes being unavailable for over @-@ water operations to international destinations , thus / therefore flying boats became part of the solution . At the far end of the longest international route (which became the Kangaroo Route) , on @-@ water landing areas were found in places such as Surabaya and in the open sea off Kupang . In Sydney , Rose Bay , New South Wales , was chosen as the airport landing area .

International airports sometimes serve military as well as commercial purposes and their viability is also affected by technological developments . Canton Island Airport , for example , in the Phoenix Islands (Kiribati) , after serving as a military airport during World War II , was used as a refuelling stop by commercial aircraft such as Qantas which stationed ground crew there in the late 1950s . The advent in the early 1960s of jet aircraft such as the Boeing 707 with the range to fly non @-@ stop between Australia or New Zealand and Hawaii , meant that a mid @-@ Pacific stop was no longer needed and the airport was closed to regular commercial use . Other international airports , such as Kai Tak Airport in Hong Kong , have been decommissioned and replaced when they reached capacity or technological advances rendered them inadequate .

= = Design and construction = =

The construction and operation of an international airport depends on a complicated set of decisions that are affected by technology , politics , economics and geography as well as both local and international law . Designing an airport even for domestic traffic or as " non @-@ hub " has , from the beginning , required extensive co @-@ ordination between users and interested parties ? architects , engineers , managers and staff all need to be involved . Airports may also be regarded as emblematic of national pride and so the design may be architecturally ambitious . An example is the planned New Mexico City international airport , intended to replace an airport that has reached capacity .

Airports can be towered or non @-@ towered, depending on air traffic density and available funds. Because of high capacity and busy airspace, many international airports have air traffic control located on site.

Some international airports require construction of additional infrastructure outside of the airport , such as at the Hong Kong International Airport , which included the construction of a high @-@ speed railway and automobile expressway to connect the airport to the urban areas of Hong Kong . Construction of the expressway included the construction of two bridges (the Tsing Ma suspension bridge and Kap Shui Mun cable bridge) and the Ma Wan viaduct on Ma Wan island to connect the bridges . Each bridge carries rail and automobile traffic .

= = Operations and management = =

International airports have commercial relationships with and provide services to airlines and passengers from around the world. Many also serve as hubs, or places where non @-@ direct flights may land and passengers may switch planes, while others serve primarily direct point @-@ to @-@ point flights. This affects airport design factors, including the number and placement of terminals as well as the flow of passengers and baggage between different areas of the airport. An airport specializing in point @-@ to @-@ point transit can have international and domestic terminals, each in their separate building equipped with separate baggage handling facilities. In a hub airport, however, spaces and services are shared.

Airport management have to take into account a wide range of factors, among which are the performance of airlines, the technical requirements of aircraft, airport @-@ airline relationships, services for travelling customers, security and environmental impacts.

= = = Standards = = =

Technical standards for safety and operating procedures at international airports are set by international agreements . The International Air Transport Association (IATA) , formed in 1945 , is the association of the airline companies . The International Civil Aviation Organization (ICAO) is a body of the United Nations succeeding earlier international committees going back to 1903 . These two organizations served to create regulations over airports which the airports themselves had no authority to debate . This eventually sparked an entire subject of air travel politics . In January 1948 , 19 representatives from various US commercial airports met for the first time in New York City to seek resolution to common problems they each faced , which initiated the formation of the Airport Operators Council , which later became Airports Council International ? North America (ACI @-@ NA) . This group included representatives from Baltimore , Boston , Chicago , Cleveland , Dallas , Denver , Detroit , Jacksonville , Kansas City , Los Angeles , Memphis , Miami , Minneapolis @-@ St. Paul , New York @-@ Newark , Philadelphia , Pittsburgh , St. Louis , San Francisco and Washington .

= = = Flight logistics = = =

International airports have extensive operations in managing flight logistics, such as air traffic control. The latter service is provided by ground @-@ based controllers who coordinate and direct aircraft on the ground and through controlled airspace. Air traffic control also provides advisory services to aircraft in non @-@ controlled airspace.

= = = Customs and immigration = = =

Airports with international flights have customs and immigration facilities, which allow right of entry. These change over time but are generally designated by law. However, as some countries have agreements that allow connecting flights without customs and immigrations, such facilities do not define an international airport.

= = = Security and safety = = =

The current trend of enhancing security at the cost of passenger and baggage handling efficiency at international airports is expected to continue in the future. This places financial burden on airports, risks the flow of servicing processes, and has implications for the privacy of passengers. International flights often require a higher level of physical security than do domestic airports, although in recent years, many countries have adopted the same level of security for both.

Most international airports feature a " sterile lounge " , an area after security checkpoints within which passengers are free to move without further security checks . This area can have services such as duty @-@ free shops that sell goods that have been selected and screened with safety in mind , so that purchasing and bringing them on board flights poses no security risks . In addition to employees , only processed passengers with a valid ticket are allowed inside the sterile lounge . Admittance into the sterile area is done in centralized security checkpoints in contrast to e.g. individual checkpoints at each gate . This allows for more efficient processing of passengers with fewer staff , as well as makes it possible to detect both delays and security threats well ahead of boarding .

To ensure the viability of airport operations, new and innovative security systems are being developed. For instance, the old security checkpoints can be replaced by a "total security area "encompassing an entire airport, coupled with automatic surveillance of passengers from the moment they enter the airport until they embark on a plane.

Passengers connecting to domestic flights from an international flight generally must take their checked luggage through customs and re @-@ check their luggage at the domestic airline counter, requiring extra time in the process. In some cases in Europe, luggage can be transferred to the final destination even if it is a domestic connection.

In some cases, travelers and the aircraft can clear customs and immigration at the departure airport. As one example of this, are airports in Canada with United States border preclearance facilities. This allows flights from those airports to fly into US airports that do not have customs and immigration facilities. Luggage from such flights can also be transferred to a final destination in the U.S. through the airport of entry.

A crucial safety aspect of international airports is medical facilities and practices . In particular , controlling transmissible disease , such as SARS , is deemed important at international airports . While these standards are regulated by ICAO Standards And Recommended Practices (SARPs) and WHO 's International Health Regulations (IHR) , local authorities have considerable say in how they are implemented .

= = = Transportation = = =

Among the most important airport services are further transportation connections , including rail networks , taxi and shuttle services at curbside pick @-@ up areas , and public buses . Large areas for automobile parking , often in co @-@ located multi @-@ storey car parks , are also typical to find at airports . Some airports provide shuttle services to parking garages for passengers and airport employees . Due to the very large scale of international airports , some have constructed shuttle services to transport passengers between terminals . Such systems operate for example , in Singapore Changi Airport and Zurich Airport .

At some U.S. international airports, such as O 'Hare International Airport in Chicago, some seating and waiting areas are located away from the terminal building, with passengers being shuttled to terminals. These areas may be referred to as ground transportation centers or intermodal centers. Amenities at ground transportation centers typically include restrooms and seating, and may also provide ticket counters, food and beverage sales and retail goods such as magazines. Some ground transportation centers have heating and air conditioning and covered boarding areas (to protect passengers from the elements).

= = = Services and amenities = = =

Standard amenities include public restrooms, passenger waiting areas and retail stores for dining

and shopping , including duty @-@ free shops . Dining establishments may be consolidated in food courts . Some international airports may offer retail sales of luxury goods at duty @-@ free stores , such as at Terminal 3 at Indira Gandhi International Airport in India . This terminal has been described as having become a significant retail destination in India . Wi @-@ Fi service and access , offices for bureau de change (currency exchange) and tourism advice are common , although the availability of service varies across airports . Some international airports provide secure areas for stranded passengers to rest and sleep . The more usual service is hotels that are available on the premises .

= = = Customer satisfaction awards = = = =

The World Airport Awards are voted by consumers in an independent global customer satisfaction survey . Singapore Changi Airport has been the first @-@ place winner in 2006 , 2010 , 2013 and 2014 . Other winners include Incheon International Airport (South Korea) and Amsterdam Airport Schiphol (The Netherlands) .

= = Airport names = =

Toponymy is one of the most common sources for the naming of airports . A number of areas close to them have lent their names , including villages , estates , city districts , historical areas and regions , islands and even a waterfall . Cataratas del Iguazú International Airport and Foz do Iguaçu International Airport are named after the Iguazu Falls in Argentina . Domodedovo International Airport is named after the town of Domodedovo . Sometimes the toponym is combined with or renamed to incorporate another name from another source such as from one of the following :

Aviators , such as pilots (civil and military) and others who played a role in the development of aviation . Sydney Airport is also known as Kingsford Smith Airport , named after Charles Kingsford Smith ; and Comodoro Arturo Merino Benítez International Airport , in Chile , is named after Arturo Merino Benítez .

Cultural leaders (poets , artists , writers , musicians) such as Leonardo da Vinci ? Fiumicino Airport , named after Leonardo da Vinci ; Liverpool John Lennon Airport , named after The Beatles member and Liverpool local John Lennon ; Tom Jobim Airport , at Rio de Janeiro named after the composer Antonio Carlos Jobim . Václav Havel Airport Prague , named after writer / philosopher / statesman Václav Havel . Budapest Ferenc Liszt International Airport and Warsaw Chopin Airport were both renamed after musicians , the former after Franz Liszt on the 200th anniversary of his birth and the latter after Frédéric Chopin .

Ethnic groups, such as Minangkabau International Airport in Padang, Indonesia, named after the local Minangkabau people.

Ideals in combination with toponyms, such as Newark Liberty International Airport.

Mythology and religion , such as heroes of epics and myths , church hierarchs and saints and similar names . Manas International Airport (or Bishkek) in Kyrgyzstan is named after Manas in the Kyrgyz national epic poem .

Politicians and statesmen , such as Heads of State , Members of parliament and leaders of political parties as well as high @-@ ranking military personnel . Examples include : Paris @-@ Charles de Gaulle Airport , named after Charles de Gaulle , John F. Kennedy International Airport (in New York City) , named after John F. Kennedy , the 35th President of the U.S. There are two international airports named after Simón Bolívar , one in Venezuela , and one in Colombia ; Netaji Subhas Chandra Bose International Airport , formerly known as Dum Dum Airport , is named after Subhas Chandra Bose and Québec City Jean Lesage International Airport , named after former premier Jean Lesage .

Public figures (advocates , engineers , doctors , teachers , journalists or sportpeople) , such as George Best Belfast City Airport , named after footballer George Best , who came from the city .

Royalty, such as King Fahd International Airport at Dammam, Chhatrapati Shivaji International Airport at Mumbai, Tribhuvan International Airport at Kathmandu are all named after royalty.

Scientists such as Bologna Guglielmo Marconi Airport, named after Guglielmo Marconi.

A study concluded that an average of 44 percent of the world 's airports are named by toponyms. Thirty percent for politicians and only seven percent for aviators. Mythology and religion (three percent), public figures (two percent), people of science (two percent) and other (one percent)

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= = Notable airports = =

= = = By historical event = = =

1919 (August) Hounslow Heath Aerodrome begins operating scheduled international commercial services from England to France.

1933 Douglas International Airport in Arizona is honored by Eleanor Roosevelt as " the first international airport of the Americas ", having reached this capacity in 1928.

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= = = By passenger numbers = = =
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As of 2012 , Hartsfield Jackson Atlanta International had the greatest number of travelers of all international airports with a total of 95 @,@ 462 @,@ 867 passengers , 13 @.@ 5 million more than the next busiest airport which was Beijing Capital International with 81 @,@ 929 @,@ 359 passengers . The following year , Hartsfield retained its place as the busiest airport but with only 94 @.@ 4 million passengers .

Los Angeles International Airport (LAX) is considered to have the greatest number of passengers who start or end their travel there as opposed to continuing on to a connecting flight. Overall, LAX is considered to be the 7th busiest airport in the world.

London Heathrow is the busiest airport in Europe , with 73 @,@ 405 @,@ 330 counted passengers in 2014 , almost 10 million more than the second busiest , Paris @-@ Charles de Gaulle Airport . It is also the second busiest in the world when measured by international passengers , beaten only by Dubai International Airport .

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= = = Other = = = =
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Svalbard Airport in Svalbard, Norway is the northern @-@ most airport to which tourists can book tickets. It is primarily used for transporting miners to and from a cluster of islands with a heavy mining industry.

King Fahd International Airport, Dammam, Saudi Arabia is the largest airport in the world, encompassing over 300 square miles (780 km2).