



Moving Air Cargo Globally

Air Cargo and Mail Secure Supply Chain and Facilitation Guidelines







Introduction

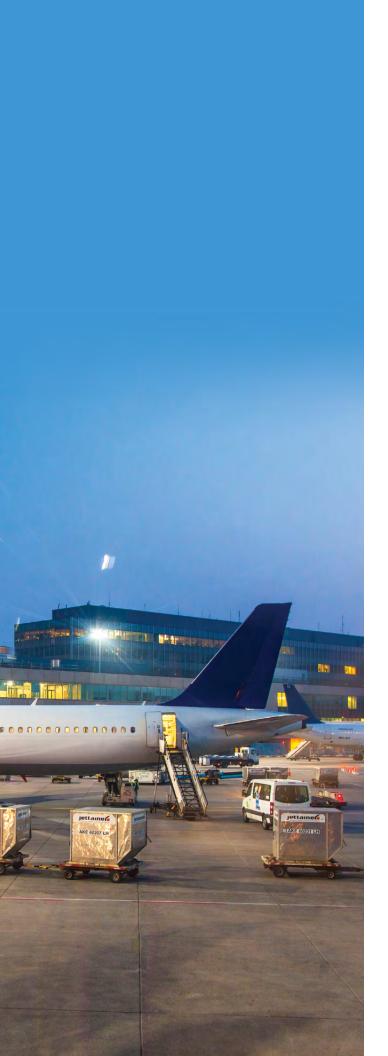
Aviation security measures are necessary to safeguard international civil aviation against acts of unlawful interference. Previous attacks on civil aviation committed or attempted by concealing improvised explosive or incendiary devices in consignments demonstrate that it is essential to remain vigilant and apply measures that secure air cargo and mail.

Vulnerabilities in cargo and mail security can provide terrorists and criminals with a route of attack. There are two main threats: placement and/or concealment of an improvised explosive or incendiary device in consignments to be loaded on an aircraft, and seizure of a commercial aircraft which is then used as a weapon of mass destruction.

The highly complex nature of the air cargo and mail operating environment, involving a multiplicity of entities, adds to the difficulties of countering threats. This publication identifies the roles and responsibilities of these various entities and highlights how they can work together effectively to secure air cargo and mail within the regulatory framework.

Moving Air Cargo Globally is destined for a broad audience and for information only. It is neither a legally binding document, nor does it constitute a manual, standards or guidelines.

For the purposes of this publication, the term "air cargo" is understood to include mail.



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Message from the ICAO Secretary General

As a United Nations agency with specialized responsibility for aviation, the International Civil Aviation Organization (ICAO) has a leading role in strengthening the security of air cargo, but recognizes that, in a complex operating environment, close working relationships with other stakeholders will be key to achieving results. It is only through ongoing cooperation with the World Customs Organization (WCO) and other international bodies, our Member States and industry representatives that high standards of safety and reliability can be ensured throughout the global aviation network.

This ambitious undertaking can only be achieved through a collective effort by the key stakeholders such as the WCO, and helps to realize both ICAO's ambitions for safe, secure and efficient air transport under our No Country Left Behind initiative, as well as greater and more sustainable prosperity for States and Regions in general – in line with the United Nations' Agenda 2030 and its visionary Sustainable Development Goals (SDGs).

Since the first edition of this joint ICAO-WCO publication was made available in 2013, a significant amount of work has been done to improve the security of air cargo movements. The regulatory framework is more robust, guidance material has been expanded and general awareness of the threat - and how to combat it - is significantly higher. New measures have been introduced to address transfer and high risk cargo and to raise standards of screening. Furthermore, all this has been done with a clear view to maintaining operational efficiency and commercial viability.

This second edition of Moving Air Cargo Globally, like the first, is designed to promote a better awareness of the air cargo and mail supply chain. It includes general updates, with input from stakeholders, regulators and industry. It also contains new material on the economic impact of cargo movements, recognizing how international distribution chains can be an engine for regional economic development.

ICAO believes that this publication will serve as a valuable resource for those who are new to air freight as well as a useful reference tool for those who have years of experience behind them. It will help to support implementation of robust standards throughout the alobe, while fostering the improved air transport connectivity which will be so critical to the future sustainability of societies and economies in every world region.



Fang Liu



Message from the WCO Secretary General

The World Customs Organization (WCO), a specialized inter-governmental organization focused on Customs matters, is dynamically engaged in the simplification, harmonization and standardization of Customs procedures, as well as the development and implementation of security and compliance programmes, in order to facilitate and secure the international trade supply chain and support economic development.

With the rapid growth in the air cargo industry and growing security concerns, a coordinated and collaborative approach between and among Customs, civil aviation authorities and other stakeholders at the international, regional and national level is of paramount importance in achieving a safe, secure and sustainable global aviation system.

The WCO and ICAO have been partnering to secure and protect the air cargo and mail supply chain from unlawful intrusions whilst facilitating the movement of people, goods and conveyances across borders through a holistic approach supported by a wide range of joint activities, notably working groups on air cargo security, conferences, workshops and the implementation of our respective standards in a harmonized and efficient manner.

The publication of the second edition of the ICAO-WCO brochure is a timely initiative to provide updated information on security and facilitation measures implemented by the WCO, ICAO and other stakeholders. The brochure will, among other things, greatly support national, regional and international efforts by Customs and its aviation partners to promote end-to-end security and facilitation of air cargo and mail supply chain across the globe.



Kunio Mikuriya

Air Cargo Supply Chain and Operations

Air cargo supply chain overview

Cargo supply chains, the process of moving consignments from origin to destination, are often complex and subject to a range of regulatory requirements, especially when they include international movements and transport by air.

Air cargo is highly diverse in its physical characteristics and value. It may originate from, and be delivered to, almost anywhere in the world, most commonly as goods being sent from a seller to a buyer or from a consignor to a consignee. It can take the form of personal belongings, gifts and donations, product samples or equipment and even live animals for professional activities and events. It may be considered low risk – a regular shipment from a known source in a relatively safe region – or high risk – such as a more unusual shipment from an unknown source, presenting anomalies or identified by intelligence.

The cargo will be handled along the chain by a number of entities with varying responsibilities, including aircraft operators, express carriers, postal operators, regulated agents, consignors, consignees, hauliers and ground handlers. As a further complication, these entities will often be known by different names according to the State or region in which they are located.

The cargo may transfer between several different flights before it reaches its destination and consignments will be subjected to a variety of procedures and documentary requirements in accordance with legal and commercial frameworks. Authorities responsible for the safety and security of aviation, for the prevention of crime and protection of fiscal revenues, will all have an interest and their own rules.

All those involved in these often complicated movements share the responsibility for ensuring the safety and security of the cargo and for operating within the law. In particular, they are responsible for ensuring that nothing contained in the cargo will endanger an aircraft and the lives of those travelling it.

This publication provides an introduction to how all these various elements fit together.

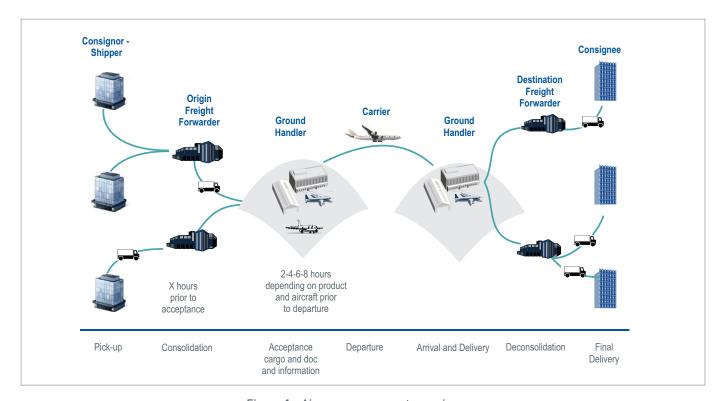


Figure 1 - Air cargo movement overview.



Roles and responsibilities

A single entity may fulfil more than one role in the supply chain and take on the combined responsibilities.

Broker

A broker is an independent agent who facilitates the movement of goods from buyer to seller, for instance by arranging air transport or meeting Customs requirements, such as goods declarations. Brokering functions are often integrated with forwarding, consolidation and even warehousing functions within a single entity.

Buyer

The buyer is the purchaser of the goods and, in the international trade context, is also known as the importer. The buyer or importer either clears consignments on its own or utilizes the services of a broker to assist with various requirements of border regulatory agencies.

Consignor

A consignor is the entity or individual who initiates the movement or transport of the goods. In other words, it is the sender. (A 'known consignor' is an entity recognized in some States as meeting specified security requirements). The term 'shipper' is often used to describe the entity or individual who initiates the trade in goods. Consignor and shipper are separate roles but can be the same entity or individual.

Consignee

The consignee is the party designated on the invoice or packing list as the recipient of the goods at the end of the transport movement.



Freight forwarders

Freight forwarders are part of the transport logistics process within the supply chain and their main task is to arrange for air shipments to be managed in such a way that they are ready for transportation by aircraft operators. Such arrangements might include the consolidation of cargo.

A freight forwarder and logistics service provider may offer a service relating to the preparation, storage, carriage and final delivery of goods, including the applicable documentary and facilitation formalities. A forwarder rarely acts as carrier of the goods. Usually, it is the organizer of multiple carriages in several modes of transport and other services that contribute to the building of a supply chain. Such carriage may be performed by single or multimodal transport means. Multimodal transports occur when air cargo services are combined with sea, rail, or pre-carriage trucking from the shipper or manufacturer to the airport of departure and from the airport of destination to the consignee. Services offered by the forwarder may include consolidation, storage, handling, packing, or distribution of the goods. In addition the forwarder can provide a range of ancillary and advisory services in relation to the physical movement of the goods. These services will often include Customs and fiscal matters, declaring the goods for official purposes, procuring insurance for the goods, and collecting or procuring payment or documents relating to the goods.

Freight forwarding services also include logistical services with modern information and communication technology in connection with the carriage, handling, or storage of goods and, de facto, total supply chain management.

For air cargo shipments, a freight forwarder normally books and contracts with an aircraft operator in the form of an air transport service agreement from the airport of departure to the airport of destination. The freight forwarder will then proceed with the shipment from its warehouse or another location and deliver it directly to the aircraft operator or its representative. This process normally starts well before Customs export formalities have been resolved.

Air Cargo Supply Chain and Operations

Roles and responsibilities (continued)

A forwarder's prime responsibility is to safeguard the interests of its customer, the consignor or shipper. Freight forwarding entails working closely with aircraft operators in order to book space on aircraft for consignments that are ready to travel, for which air transport contracts are concluded and air waybills are issued. Freight forwarders are often located landside, but some may operate, or even own, warehouses that are located airside or on the border between landside and airside.

Ground handlers

Ground handlers are subcontracted and act on behalf of freight forwarders and/or aircraft operators. This occurs when the freight forwarder or aircraft operator does not have the necessary facilities. Ground handling services can include the provision of warehouses to accept, handle, prepare, and tag cargo and mail, as well as loading/unloading, transit, and storage of cargo and mail. Ground handlers are responsible for dealing with operational aspects, based on the instructions of freight forwarders and aircraft operators. Once a consignment is ready for shipment, the freight forwarder will release the cargo and instruct the ground handler to deliver it to the aircraft operator.

Ground handlers are often located on airport premises, either airside or at the frontier between landside and airside, though they may also be located landside.

Designated Postal Operator

A Designated Postal Operator is any governmental or non-governmental entity officially designated by a Universal Postal Union (UPU) Member State to operate postal services and to fulfil the related obligations arising out of the UPU Acts, including the universal postal service obligation. Mail is defined as all postal items conveyed by designated postal operators under the conditions of the UPU Convention, its Regulations and UPU technical, messaging and security standards.

Designated postal operators conduct business with aircraft operators for the conveyance of mail, and apply security controls to mail, including screening, as required by the appropriate authority, and in accordance with the Universal Postal Union Convention.

The confidential nature of correspondence is generally protected by State legislation, which may prohibit the opening of mail receptacles or restrict the use of some



screening methods. It may also require that mail be treated differently than cargo consignments.

Airport operator

An airport operator is the entity responsible for the provision and security of the airport infrastructure. The operator will establish a secure environment through which the goods move and may also be responsible for the provision of 'on airport' cargo services. In some cases, an airport operator will be the party responsible for the protocols for dealing with incidents resulting from a positive identification of a physical threat in air cargo.

Aircraft operators

Aircraft operators, also known as airlines and air carriers, provide air transportation for goods. A transport contract (air waybill) binds an aircraft operator with the relevant contracted parties for the safe and secure transport of cargo and mail from one location (e.g. the airport of departure) to another (e.g. the airport of arrival).

The air cargo may be transported on passenger aircraft or all-cargo aircraft. In some instances, particularly for short distances, aircraft operators may also transport air cargo by road. The transport contract remains an air waybill, however, and the road segment is considered as a flight, with a designated flight number. This type of operation is known as a 'road feeder service'.

Express carriers

Express carriers combine the work of a broker, haulier, freight forwarder, groun d handler and aircraft operator into one single company or group, which is why they are also sometimes referred to as 'integrators'. Express delivery has thus become a specific business model in the cargo industry. Express carriers manage end-to-end multimodal supply chains spanning 220 States and territories. They operate sophisticated track-and-trace information technology systems, which allow them to monitor the progress of an individual shipment through their chain, from pick up to delivery. Express carriers typically transport high-value-added, time-sensitive cargo, with a time definite delivery.

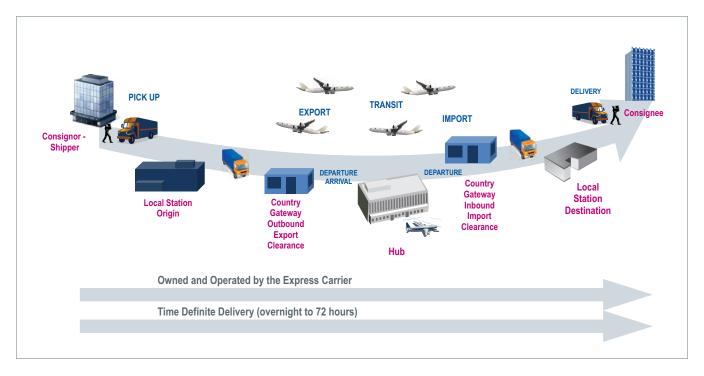


Figure 2 - The Express Model.

Securing the Air Cargo Supply Chain

ICAO Regulatory Framework

The ICAO regulatory framework for the air cargo secure supply chain has been developed incrementally over a period of time and is set out in a series of Standards and Recommended Practices (SARPs) in Annex 17 Security to the Chicago Convention, supported by guidance material in the Aviation Security Manual (Document 8973 – Restricted). This regulatory framework remains under constant review and is updated periodically to provide the best responses to evolving threats.

This section is based on standards and guidance materials in force at the time of the development of this publication (July 2016).

The framework provides for the following entities in the supply chain:

Aircraft operators

In principle, as shown below, an aircraft operator can bear the entire responsibility of applying security controls, including screening of 100 per cent of cargo and mail before loading on to an aircraft.

However, while all passengers and their baggage are screened immediately before departure, this is generally not a practical proposition for all outgoing cargo.

The alternative is a secure supply chain, where security controls are applied at the point of origin or at an intermediate point before the airport. This:

- respects existing obligations of businesses operating in the air cargo supply chain;
- shares costs and responsibilities among all stakeholders and allows cargo to be secured upstream in the supply chain to reduce the burden of security controls imposed on aircraft operators;
- facilitates the flow of cargo transported by air and reduces or limits possible delays generated by the application of security controls;
- applies appropriate security controls for specific categories of cargo that cannot be screened by the usual means due to their nature, packaging, size or volume; and
- preserves the primary advantages of the air transport mode: speed, safety and security.

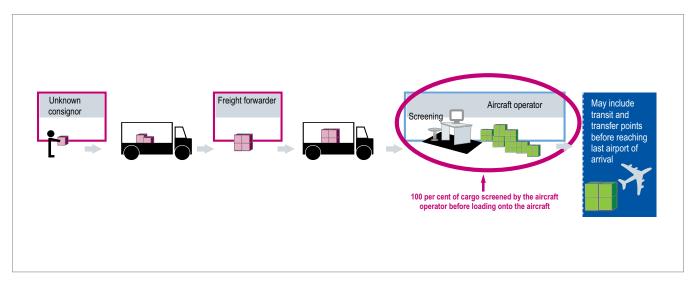


Figure 3 - Security controls applied by aircraft operators

ICAO and its Member States have developed Standards to support the implementation of a secure supply chain through the regulated agent and known consignor regimes. These entities are approved by the appropriate authority and may apply security controls, including screening, upstream in the air cargo supply chain. They ensure that the cargo and mail to be carried on commercial aircraft is protected from unauthorized interference from the point where screening or other security controls are applied until departure of the aircraft.

The implementation of the secure supply chain reduces the burden on aircraft operators while facilitating the processing of secure cargo when it arrives at an airport.

Regulated agents

A regulated agent is a freight forwarder or any other entity (e.g. ground handler) that conducts business with an aircraft operator and provides security controls that are accepted or required for cargo or mail by the appropriate authority. Once approved as a regulated agent, an entity may conduct security controls for cargo, including the screening of goods. An aircraft operator may receive cargo secured by a regulated agent, which accounts for the security status of consignments.

Candidates for regulated agent status must meet specific requirements determined by the appropriate authority. The regulated agent must develop and maintain a security programme that describes all the security measures implemented on the premises and during all operations to secure cargo and maintain its integrity until delivery to the next entity. Such measures should include, inter alia: access control to secure areas; monitoring of premises; protection and surveillance of cargo against unauthorized access; screening processes; delivery and reception processes; security training for all staff who may access the premises; and monitoring of subcontractors.

Challenges inherent in screening cargo at the last moment before being loaded on to an aircraft:

- Immediately before departure, cargo is already palletized, and it is generally not possible to screen it in its entirety without breaking up the pallets;
- Certain parcels and/or consolidated consignments are too large for conventional X-ray screening, one of the most common screening methods applied at airport premises;
- Due to the diversity of the nature and content of cargo, an appropriate screening method must be selected. Security operators may need to employ several methods to clear some items and not all options may be available at an airport; and
- Tonnes of cargo are prepared for each individual flight and there are only brief windows of time before scheduled departures. Screening of all cargo by the aircraft operator at the last moment before departure could slow down the flow and impact the competiveness of air transport.



Securing the Air Cargo Supply Chain

ICAO Regulatory Framework (continued)

However, a regulated agent can only maintain the security of a consignment or screen it, and there are some types of cargo that are time consuming to screen thoroughly. In these instances the implementation of a known consignor regime offers the possibility of conducting effective security controls at the manufacturing/assembly/packing stage.

Known consignors

An entity may act as a known consignor when it originates cargo or mail for its own account and when its procedures meet common security rules and standards sufficient to allow the carriage of cargo or mail on commercial aircraft. Once a known consignor has accounted for the security status of cargo, the consignment may be delivered to a regulated agent,

other approved entity, or directly to the aircraft operator, who then takes over the responsibility for keeping it secure until it is loaded on to an aircraft.

In order to be designated as a known consignor, an entity such as a manufacturer or assembler should demonstrate compliance with the known consignor security programme under which business will be conducted, as recognized and approved by the appropriate authority or other entity authorized by the State to act on its behalf. Known consignors should apply for designation, approval or listing by the appropriate authority at regular intervals not exceeding five years.

Their placement in the supply chain is shown in figure 5 below.

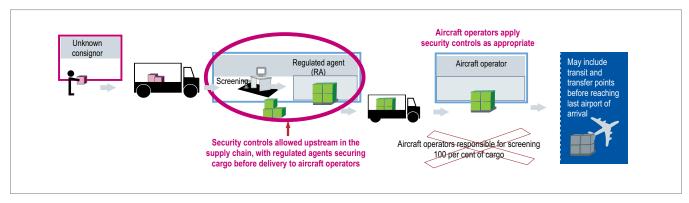


Figure 4 - Security controls applied by regulated agents.

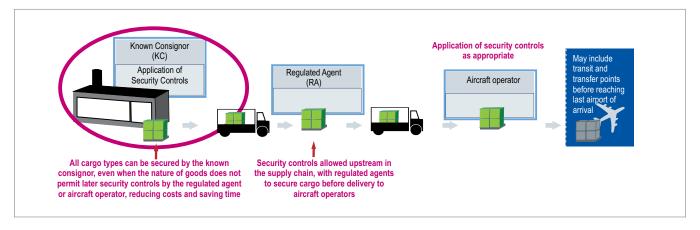


Figure 5 - Security controls applied by known consignors.

Screening

For aviation security purposes, screening is the application of technical or other means which are intended to identify and/or detect weapons, explosives or other dangerous devices, articles or substances which may be used to commit an act of unlawful interference. ICAO recognizes a range of screening options, including hand search, x-ray and explosives trace detection.

The entity that secures the cargo must ensure that screening is carried out using an appropriate means or methods, taking into account the nature of the consignment, as not all means or methods will be suitable for all consignments. Also, some consignments may be categorized as 'high risk', for instance on the basis of intelligence information, and should in these circumstances be subject to additional screening or other security controls¹.

Consignment Security Declaration (CSD) (Further details are available in the Air Cargo Supply Chain and Associated Documents section)

All along the supply chain, including at transfer points, it is crucial to share information about the security status of cargo and mail to ensure that anything that needs to be secured or re-secured is properly identified and screened.

To assure this transmission of information, an entity that renders cargo secure should issue a Consignment Security Declaration that specifies the security status of the cargo and mail and displays other important security information. This is transmitted to each party involved later in the secure supply chain in order for them to apply the appropriate security measures to the consignment and protect it from unauthorized access.

When accepting a consignment, a regulated agent or an aircraft operator will automatically refer to the CSD in order to determine the way to handle, prepare, store and, if necessary, screen the cargo. The CSD should only be issued once the appropriate security controls, have been applied. If no security status is indicated, or no consignment security declaration is issued, it should be deemed that no security controls have been previously applied. The CSD should be completed at each step along the secure supply chain, to indicate that another authorized entity acting within the secure supply chain is taking responsibility for the security status of the cargo.

Only entities accredited by a State as regulated agents, known consignors or aircraft operators are entitled to issue or complete such a declaration, and their unique identification number should be recorded, to indicate their responsibility and administrative accreditation. The CSD can be transferred either as a hard copy or in an electronic format.

In the express business model, the relevant cargo security information is instead usually available in inhouse information technology systems.

Postal consignments also usually have different documentation.

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The electronic version of the CSD (or eCSD) complements the increasing automation of air cargo processes and allows operators to exchange and store security information electronically.

Currently, the possibilities of electronically analysing shipmentrelated data to identify shipments which may represent a higher risk are under consideration. Any consignments so identified would be subject to additional scrutiny and possibly extra security requirements. Such preloading advance cargo information (PLACI) systems have the potential to provide an additional layer of screening in the future.

Securing the Air Cargo Supply Chain

WCO regulatory framework

The WCO SAFE Framework of Standards is the Customs instrument covering all modes of transport, to secure and facilitate goods moving through international supply chains. The Framework has both national and international implications, and is composed of distinct standards that call for:

- partnerships to be established between Customs administrations, between Customs administrations and the private sector, and between Customs administrations and aviation authorities and other government agencies at borders;
- harmonized advance electronic information and/or pre-loading advance cargo information requirements for conducting risk assessments to address security threats;
- outbound inspection of high-risk cargo and/or transport conveyances
- the use of modern, non-intrusive inspection equipment;
- the introduction of Authorized Economic Operator (AEO) concept; entities which having satisfied predetermined security standards, receive the benefit of enhanced facilitation; and

 mutual recognition between Customs administrations of their respective AEOs and Customs control procedures.

In some regions, there is already a degree of mutual recognition of AEO and Regulated Agent/Known Consignor Status and this may be further harmonized and extended in time.

Traditionally, Customs has been responsible for implementing a wide range of government policies, spanning areas as diverse as revenue collection, trade compliance and facilitation, interdiction of prohibited substances, protection of cultural heritage and enforcement of intellectual property laws. This breadth of responsibility reflects the fact that Customs authorities have long been entrusted with administering matters for which other government ministries and agencies have policy responsibility, such as health, agriculture, environment, trade statistics and, in some cases, immigration.

Customs has the authority to inspect cargo and means of transport entering, transiting or exiting a State. It may even refuse entry, transit or exit in certain cases. While these powers are extensive, a holistic approach is required to optimize the securing of the international trade supply chain while ensuring continued improvements in trade facilitation. Customs therefore





developed cooperative arrangements with other government agencies in a so-called coordinated border management environment.

Modern Customs processes are based on the International Convention on the Simplification and Harmonization of Customs Procedures (Revised Kyoto Convention, RKC). Following the events of 9/11, the WCO Council adopted the SAFE Framework of Standards to Secure and Facilitate Global Trade, thereby adopting a holistic approach to the supply chain. 169 Members of the WCO have signed a 'letter of intent' to implement it. It is kept up to date and relevant by the WCO SAFE Working Group through a periodic review process.

The cargo facilitation provisions of ICAO's Annex 9 — Facilitation are amended, from time-to-time, to keep them aligned, to the greatest extent possible, with the RKC and the SAFE Framework. They were changed most recently in 2015 to incorporate the AEO concept into the Annex.

The WCO's SAFE Package brings together all WCO instruments and guidelines that support implementation of the SAFE Framework. The Package includes the SAFE Framework, the Integrated Supply Chain Management Guidelines, AEO Implementation Guidance, the AEO Compendium, Model AEO Appeal Procedures. AEO Benefits: a contribution from the WCO Private Sector Consultative Group, the Guidelines for the Purchase and Deployment of Scanning/Nonintrusive Inspection Equipment including the Guidance Material on Threats and Technology Solutions, WCO Recommendation Concerning Customs Formalities in Connection with the Temporary Admission of

Container Security Devices (CSDs). the SAFE Data Element Maintenance Mechanism, the Trade Recovery Guidelines, FAQ for Small and Medium Enterprises, Guidelines for Developing Mutual Recognition Arrangements or Agreements, Toolkit for Pillar 1 (Customs to Customs) and AEO template, Coordinated Border Management Compendium Single Window Compendium - Volume 1 Volume 2. Joint WCO/ICAO Brochure, Customs-Business Partnership Guidance, Recommendation of the Customs Co-Operation Council on the Guiding Principles for Data Quality (June 2015).

The SAFE Framework is a dynamic instrument that balances facilitation and control while ensuring the security of the global trade supply chain.

Integrated Customs control procedures

Everything entering or leaving a Customs territory is subject to Customs control. In an integrated Customs control chain, the integrity of a consignment has to be ensured from the time the goods leave the place of origin until they arrive at the absolute final destination. This usually starts with advance electronic transmission of prescribed information by the exporter or its agent. This information should be lodged with Customs prior to goods being loaded on to the means of transport (or into the container) being used for their exportation.

A further initial transmission may be required from the aircraft operator at an agreed later stage. For security purposes. Customs usually limit their information requirements to those available in aircraft operators' normal documentation and based on those set out in Annex II to the SAFF Framework of Standards.

Securing the Air Cargo Supply Chain

WCO regulatory framework (continued)

Similarly, there is advance electronic transmission of prescribed information by the aircraft operator or its agent to the Customs administration at entry, followed by complementary transmission by the importer at an agreed later stage.

The WCO SAFE Framework of Standards includes provisions for any business involved in moving goods through the international supply chain to become validated by Customs as AEOs if they meet supply chain security requirements. AEOs are allowed to submit reduced pre-arrival data sets, which must nonetheless contain the minimum information necessary for Customs to conduct a security risk assessment.

These arrangements can be extended by the concept of an authorized supply chain in which all operational participants in a transaction are approved by Customs as meeting specified standards in the secure handling of goods. Consignments passing from origin to destination entirely within such a chain will be assessed ordinarily as low risk and can benefit from enhanced facilitation as they cross borders.

In the integrated Customs control chain, Customs carries out risk assessment for security on an on-going basis. This can commence on receipt of the initial export declaration, and be updated as further information becomes available at later stages, such as data from

the cargo declaration. This on-going process avoids unnecessary duplication of controls.

At any point in the supply chain, where Customs has reason to suspect that a consignment presents a risk, they can ask for more information, carry out further enquiries, subject the goods to non-intrusive inspection, or open the consignment for physical examination. Goods are released (for export or import) as soon as all Customs formalities have been met. Customs will, within a specified time limit, notify the party having submitted prescribed information whether the goods can be loaded, unloaded or released. Consignments being moved by AEOs within a secure supply chain enjoy enhanced facilitation, such as priority treatment for examination and clearance.

Customs at the office of departure will usually take action to enable the office of destination to identify the consignment and to detect any unauthorized interference. In addition, the Customs administrations at departure and destination should agree to use an electronic messaging system to exchange Customs data. In particular, this should apply to control results and arrival notifications for high-risk consignments.

As part of the integrated Customs control chain, Customs administrations along the supply chain may have routine Customs-to-Customs data exchanges, in particular for high-risk consignments.



Information management

Electronic systems, which allow the exchange of information between interested parties (called cargo community systems), have been established at airports by stakeholders in the transport chain. Customs are usually participants in such systems in order to access data required for risk assessment. Modern Customs administrations use automated systems to manage security risks; seek to avoid the burden of different sets of requirements to secure and facilitate commerce; and, where possible, recognize other international standards and do not duplicate or contradict other intergovernmental requirements.

For the purpose of standard and harmonized Customs data requirements at import and export, the WCO has developed the WCO Data Model, which defines a maximum set of data for the accomplishment of export and import formalities and the electronic message formats. The Data Model includes the data necessary for Customs control and risk assessment purposes, as well as data elements required by other border agencies.

Advance Information

Customs authorities have been using Pre-Arrival Advance Cargo Information (ACI), based on the provisions set out in the WCO's SAFE Framework of Standards, for a number of years as an essential tool in the process of targeting and risk assessment of shipments for security and facilitation. Now, the possible use of Pre-Loading Advance Cargo Information (PLACI) as part of a multi-layered risk based approach to air cargo security is also being considered as an additional optional layer to the risk assessment continuum. Determining how electronic PLACI can be used to support risk management in air cargo security is one of the areas on which ICAO and WCO are currently working together.

Possible benefits of adopting a PLACI system are as follows:

- Additional layer of security, increasing effectiveness of a multilayered system and risk-based approach;
- Focus on, and easier identification of, security highrisk air cargo shipments:
- Avoidance of unnecessary delays for low-risk air cargo shipments;
- Meeting the needs of Customs and aviation security through a single, joint process, avoiding duplication;
- Flexibility to adapt to diverse supply chain models providing comparable security outcomes; and
- Facilitation of movements of cargo throughout global supply chains, which are complex, crossborder, and multi-modal.

Air Cargo Supply Chain and Associated Documents

General Cargo Documents Flow

The following business process overview describes the physical flow of goods and the information flow between the different stakeholders involved in the air cargo supply chain. The figure depicts a process wherein a freight forwarder consolidates shipments from various

shippers into a single consignment at origin and performs brokerage activities and delivery at the final destination.

There are 14 main documents that may be used along the entire supply chain, as described in the table on page 17.

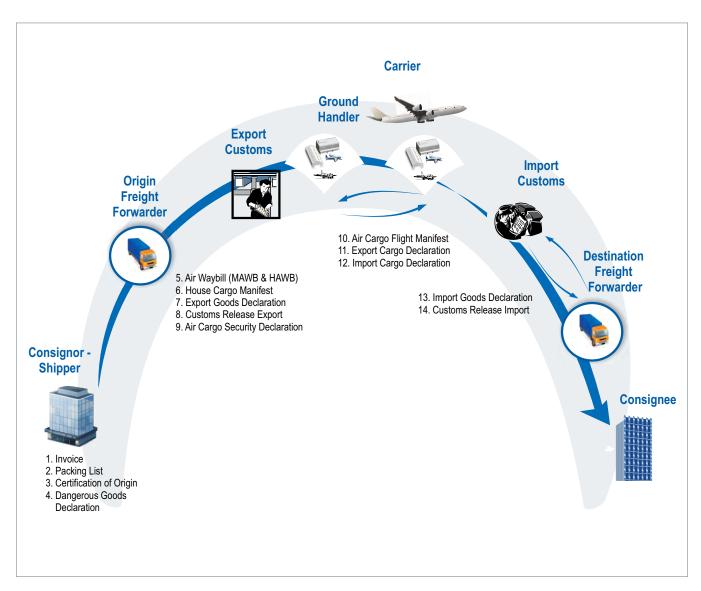


Figure 6 - General cargo: most common document flow for Customs



Table 1 : Supply chain document requirements

Air cargo manifest	A document issued by an aircraft operator, and available in hard copy or electronic form. This document contains the details of consignments loaded on to a specified flight and provides a list of all the air waybill and master air waybill numbers referring to the goods loaded on to an aircraft. The nature of the goods, weight, and number of pieces composing each consignment on a specified flight, and the unit of loading used, are also identified in this document.	
Air waybill	A document prepared by or on behalf of a shipper that evidences the contract between the shipper and aircraft operator(s) for the carriage of goods over routes of the operator(s). Air waybills have several purposes, but their two main functions are as a contract of carriage (behind every original air waybill are the conditions of contract for carriage), and as evidence of the receipt of goods. An air waybill is the most important document issued by an aircraft operator either directly or through its authorized agent (freight forwarder), and covers the transport of carriage in the airport. Air waybills have eleven-digit numbers used to make bookings and to check the status of a delivery and the current position of the shipment. The first three digits are the aircraft operator prefix.	
House air waybill	A freight forwarder offering a consolidation service will issue its own air waybill to the shipper, called a house air waybill, which may act as a multimodal transport document. The house air waybill and the forwarder's general conditions may be seen as a part of the contract between the freight forwarder and each shipper whose goods have been consolidated. There are two reference numbers on a house air waybill, the number of the master air waybill to which it is linked and the house air waybill number itself, which is always different from one freight forwarder to another, without limitations or standard digits, and which may be used to trace a shipment through the freight forwarder.	
Master air waybill	Master air waybills are issued by or on behalf of freight forwarders offering a consolidation service. This document specifies the contract between a freight forwarder (or consolidator) and aircraft operator(s) for the transportation of goods originated by more than one shipper but destined for the same final State, airport or other destination. Master air waybills are linked to several house air waybills, and the master number can be used to trace a shipment with an aircraft operator.	
Certificate of Origin	A specific form identifying the goods, in which the authority or body empowered to issue it certifies expressly that the goods to which the certificate relates originate in a specific State. This certificate may also include a declaration by the manufacturer, producer, supplier, exporter, or other competent person.	
Consignment security declaration (CSD)	A consignment security declaration is a document used to establish the security status of cargo. It allows tracking of the security status of cargo and mail throughout its movement within the secure supply chain. This document helps to ensure that regulated agents, known consignors, and aircraft operators are held accountable regarding the security controls applied to cargo. A consignment security declaration, which may be in hard copy or electronic form, should be issued by the entity that renders and maintains the cargo secure. A CSD template can be found in the ICAO Aviation Security Manual (Doc 8973 — Restricted).	
Customs release export	A document whereby a Customs authority releases goods under its control to be placed at the disposal of the party concerned for export (also called a Customs delivery note).	
Customs release import	Same as above but for import	
Dangerous Goods Declaration	Document(s) issued by the consignor or shipper to certify that the dangerous goods being transported have been packaged, labelled, and declared in accordance with the provisions of international standards and conventions.	
Export cargo declaration (departure)	A generic term applied to the document, also referred to as a freight declaration, providing the particulars required by Customs concerning outbound cargo carried by commercial means of transport.	
Export goods declaration	A document whereby goods are declared for export Customs clearance.	
House cargo manifest	A document containing the same information as a cargo manifest as well as additional details on freight amounts, etc.	
Import cargo declaration (arrival)	Same as above but for inbound cargo	
Import goods declaration	A document whereby goods are declared for import Customs clearance.	
Invoice	A document required by Customs in an importing State in which an exporter states the invoice or other price (e.g. selling price or price of identical goods), and specifies costs for freight, insurance, and packing, as well as terms of delivery and payment, for the purpose of determining the Customs value of goods in the importing State.	
Packing list	Documents specifying which goods are in each package.	



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Air Cargo Supply Chain and Associated Documents

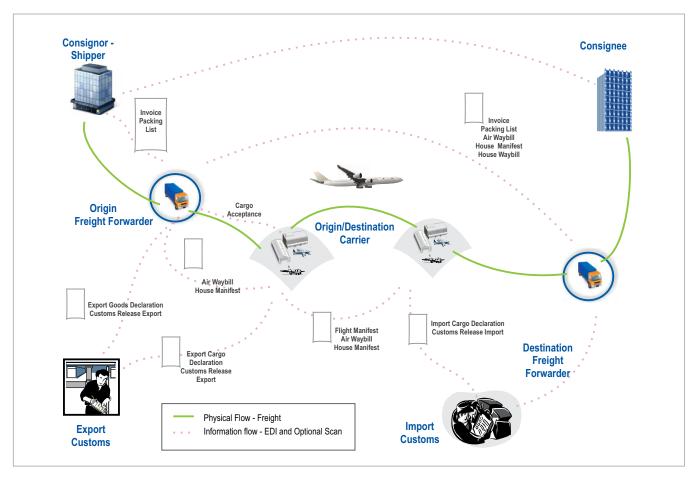


Figure 7 - Business process overview. Exchanges between stakeholders with double-ended arrows indicating a response.

General Cargo Documents Flow (continued)

The origin freight forwarder, when acting as a Customs agent or broker, using the information received from the shipper (consignor), prepares and sends an export goods declaration to Customs. Customs releases the goods for export and notifies the origin freight forwarder by electronically sending a Customs release for export. The origin freight forwarder prepares the house manifest as well as the master air waybill and sends them to the origin aircraft operator. If not submitted by the aircraft operator, the freight forwarder may, on behalf of the operator or the shipper, submit advance security risk assessment information and where applicable PLACI (7+1 data elements) to destination Customs. Customs can then perform an advance security risk assessment and, depending on the results

and on the State, Customs may provide an electronic response. The origin freight forwarder may send a pre-alert to the destination freight forwarder to allow the receiving freight forwarder to prepare a Customs clearance in advance. The pre-alert may be comprised of the invoice, packing list, house waybill, house manifest, and master air waybill, or other required documents.

If a Customs agent or broker is involved, the destination freight forwarder will transmit the necessary pre-alert information to the Customs agent or broker at destination.

The origin freight forwarder presents the shipment to the origin aircraft operator who performs the necessary checks before receiving the freight as 'ready for carriage'. A ground handling agent can receive freight on behalf of an aircraft operator.

The origin aircraft operator transmits to export Customs an export cargo declaration and receives a response from export Customs to release the cargo for departure. The origin aircraft operator manifests the flight and transmits at "wheels up" a pre-alert to the destination operator. This pre-alert is comprised of the flight manifest as well as the house manifest and master air waybill. Prior to flight arrival, some national Customs authorities may require the destination operator to transmit electronically a conveyance report indicating the flight identification and estimated time of arrival.

Some of an aircraft operator's activities can be performed by ground handling agents on behalf of the operator.

At or before a flight's arrival, the destination aircraft operator transmits to import Customs an import cargo declaration and receives a response to release the cargo to be delivered to the destination freight forwarder or

other 'deliver to' party. The destination freight forwarder collects the freight, where applicable, and transmits the import goods declaration (often prepared in advance) to import Customs to clear the goods (physical and fiscal release). Import Customs performs a risk assessment and, depending on the results, may request additional information from the destination freight forwarder (e.g. invoice, packing list, or other required regulatory documents).

If a Customs agent or broker is involved, the Customs clearance is performed by the agent or broker and not by the destination freight forwarder. The agent or broker may be instructed by the freight forwarder or by the importer (sometimes also the consignee).

Import Customs may transmit a response electronically to the destination freight forwarder (or other declaring parties) to release the goods for import. When the goods are cleared, the destination freight forwarder ensures that the goods are loaded on to the means of transport that delivers the goods to the final consignee or to another identified delivery place.

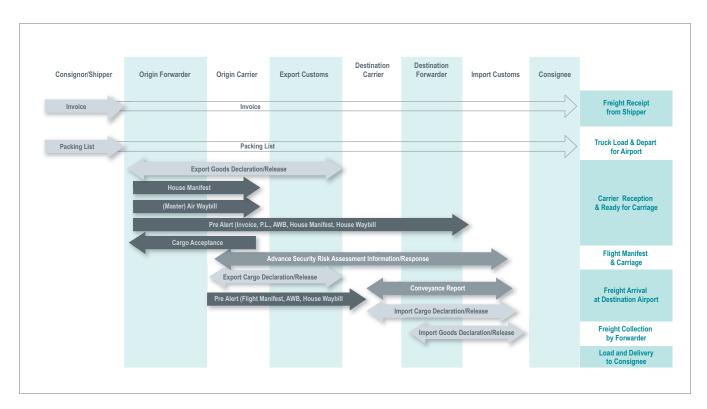


Figure 8 - Air cargo supply chain document sequence.

Air Cargo Supply Chain and Associated Documents

Express model documents flow

The express delivery industry operates highly sophisticated and fully integrated information technology (IT) systems, allowing the processing of supply-chain-relevant data and managing of information flow ahead of the associated physical flow of cargo. These proprietary IT systems enable a fully paperless environment necessary to provide express delivery services. Express delivery companies prefer the electronic submission of required official documentation

such as manifests and goods declarations. Supporting documentation such as a commercial invoice is digitized and is available for electronic submission or direct access where appropriate and requested. However, where paper-based documentation is still required by national law, these documents can be produced on demand and as required.

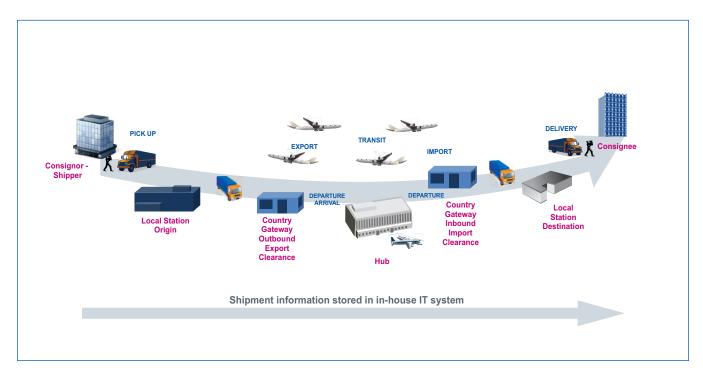


Figure 9 - Information flow in the express model

Mail

Designated postal operations are governed by the Acts of the Universal Postal Union (UPU). Mail, in the context of this publication, is understood to mean anything that requires a Customs declaration, and excludes postcards and other correspondence. The first link in the postal supply chain is the acceptance of mail from senders in exporting posts. Senders are asked to confirm at the point of acceptance that an item does not contain anything that is dangerous or that is prohibited by the importing post's legislation. A Customs declaration form is then attached to the item.

After further processing at exporting post facilities, including eventual examination by exporting Customs, mail is tendered by the exporting post to the aircraft operator. Every mail consignment is accompanied by transport documentation for aircraft operator purposes, and operational documentation for importing post purposes. Mail is security screened before being loaded on to an aircraft. Article 9 of the UPU Convention

specifies the responsibility of the post regarding screening, security and safety. In addition, some postal agents have been approved to work as regulated agents and are thus authorized to screen mail. Some postal operators have also been authorized as AEOs.

Mail is then transported to the airport serving the importing post, either directly or after passing through one or more posts in transit. Here it is handed over by the delivering aircraft operator to the importing post. Import Customs then examines all incoming mail items to determine their admissibility and assess customs duties where applicable. After clearance by import Customs, mail items are operationally processed in the facilities of the importing post. Finally, they are delivered to the receiver.

The figure below provides a simplified depiction of the postal supply chain.

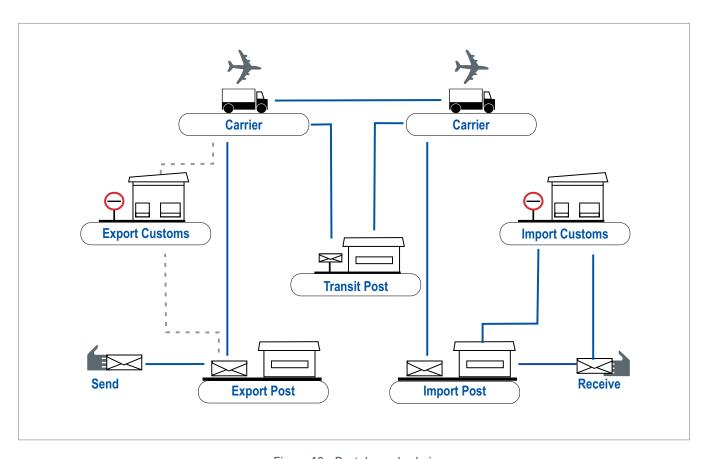


Figure 10 - Postal supply chain

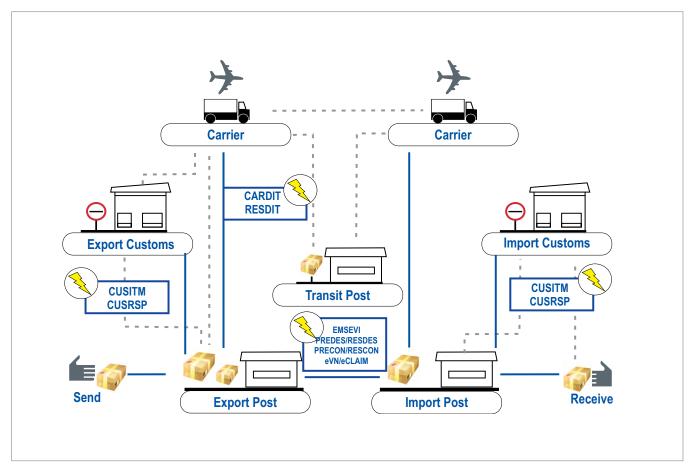


Figure 11 - Electronic information exchanges

The movement of international mail requires three sets of information exchanges, occurring between: posts; posts and aircraft operators; and posts and Customs. Such information exchanges are increasingly based on electronic messages. Standardized messages have been developed for each of the three categories of information exchanges. The WCO and International Air Transport Association (IATA) have closely collaborated with the UPU in the development of post-Customs and post-aircraft operator messages, respectively.

The UPU is also collaborating closely with the WCO, ICAO and other organizations to develop a postal model that provides advance information electronically for security purposes to appropriate stakeholders. In 2012 the UPU Congress amended the UPU Convention to make the provision of such advance information mandatory.

The UPU and WCO have jointly developed CUSITM (Customs Item) and CUSRSP (Customs Response) messages. CUSITM pre-advice messages are intended to be sent from the post receiving an item to the local Customs authority. Such messages, as shown in the diagram below, provide Customs with pre-advice regarding an item, including the sender, addressee, contents, postage paid, and declared value. This information allows the Customs authority to decide whether or not an item should be held for security inspection and whether taxes and duties should be assessed. CUSRSP messages, intended to be sent from a Customs authority to a post (usually in response to a CUSITM pre-advice message), advise the post on whether an item can be released for onward processing or whether it must be retained for security inspection or the assessment of taxes and duties.

The UPU has developed a Customs Declaration System (CDS) to process end-to-end electronic Customs declarations between posts and Customs/border control. The CDS is based on the WCO-UPU joint messaging

standards. This software provides extensive functionalities to both postal and Customs/border control users. The Customs Declaration System, will facilitate security controls and promote postal e-commerce.

UPU/ICAO collaboration has intensified due to increased aviation safety and security requirements. Both organizations participate in the work of each other's security bodies, and training material for use by postal staff is being developed in collaboration with ICAO. The UPU has also developed security standards (S58 and S59) that are modelled on ICAO Annex 17 requirements and WCO SAFE Framework requirements, and observance of these is now mandatory for UPU Member States. A Memorandum of Understanding between ICAO and the UPU was signed in 2009 and updated in 2015, to include provision for a Contact Committee.

The WCO and UPU have also signed a Memorandum of Understanding in 2007 and cooperate on issues of mutual interest, including postal chain security through a Contact Committee.



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The Impact of Air Cargo Services on Economic Development

Economic benefits of Air Cargo Services

Air cargo transport enables nations, regardless of their geographic location, to efficiently connect to distant markets and global supply chains in a speedy and reliable manner. This is vital for implementing best international business practices, including just-in-time inventory management and build-to-order production.

Air cargo services are a tremendous enabler for economic progress in developing countries, since they connect markets across continents. High value electrical components and perishable products such as food and flowers are transported all over the world, providing steady employment and sustainable economic growth to regions that benefit from such trade.

Air transport plays a pivotal role for Small Island Developing States (SIDS), Landlocked Developing Countries (LLDCs) and Least Developed Countries (LDCs), allowing them to overcome infrequent boat services or poor infrastructure for ground transportation. Air cargo service routes are regarded as regional lifelines for these areas.

Aviation's speed and reliability are also a key factor in the delivery of urgently needed assistance during emergencies caused by natural disasters, famines and wars. Air drops are among the first responses of aid agencies to stem humanitarian crises. Air cargo also plays a vital role in the rapid delivery of medical supplies and organs for transplantations worldwide.

According to the Air Transport Action Group (ATAG), the largest economic benefit of increased air cargo connectivity lies in its impact on the longterm performance of the wider economy through enhancement of the overall level of productivity. It opens up new markets, boosts exports and at the same time increases competition and choice in the home market from foreign-based producers.

49.3

million tonnes of freight handled by air in 2013



Business Case: Zhengzhou Airport Economy Zone (ZAEZ)

In November 2011, Chinese city Zhengzhou opened a 5-square-kilometer, customs-free bonded zone on and adjacent to the airport for high-value, time-critical manufacturing and distribution. Foxconn located a manufacturing campus there that employs 240,000 workers assembling Apple's iPhones and other digital devices. Smartphone output from this campus doubled the value of Henan province exports between 2011 and 2012. A number of new projects up to US \$1 billion each are currently under construction in the ZAEZ. These include, among others, Amer International Group, Cainiao Networks, Fair Friend Precision Machinery Park, IBM, and Microsoft. In 2013, there were 48 new major projects signed, worth a total of US \$24.3 billion.

(Source: "Gateway Airports: Commercial Magnets and Critical Business Infrastructure" 2014, By John D. Kasarda, Ph.D.)

Commodity	Air Traffic 2012* (A330 equivalent)	2002-2012 Compound Annual Growth Rate
Semi-conductors	18	7.5%
Electrical components	15	5.0%
Land vehicles parts	18	5.3%
Aerospace	6	6.1%
Fresh fish, traditional fruits and vegetables	37	2.0%
Exotic fruits, sushi, grand cru	13	6.1%
Pharmaceuticals	12	6.9%
Medical machinery and accessories	5	8.0%

Typical commodities transported by air & their growth rates Source: Airbus

The regulatory framework

Air transport connectivity is the movement of passengers, mail and cargo involving the minimum of transit points, which makes the trip as short as possible, with optimal user (shipper, consignee or passenger) satisfaction, at the minimum price possible.

In order to optimize connectivity, a strong supporting framework is needed. This includes market access and liberalization, optimal use of air navigation services, aircraft and airport systems, as well as enhanced facilitation and security procedures. For the full benefits of air connectivity to materialize intermodal connections and efficient airline operations are essential.

ICAO actively contributes to improving connectivity in several areas by fostering various initiatives within that framework. This includes the development by ICAO of international agreements to liberalize air transport, including air cargo services.

Business Case: Kenya

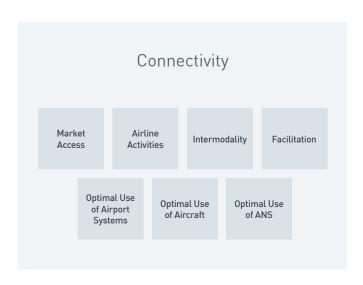
In Kenya, 90,000 jobs (and 500,000 livelihoods) depend on the cut flower industry, which supports 1.6% of the national economy, generating around \$1 billion in foreign exchange each year. (Source: Kenya Flower Council, 2012) Horticulture has been Kenya's fastest growing sector and is ranked third after tourism and tea as a foreign exchange earner. Over 90% of fresh horticultural products are air freighted. An estimated 70% of the flowers are grown at the rim of Lake Naivasha, northwest of Nairobi. There are good road network connections between the Lake Naivasha growing area and Nairobi's Jomo Kenyatta International Airport, a distance of about 80-100 kilometers. Flowers picked in the morning reach markets in Amsterdam by evening.

(Source: "Air Freight: A Market Study with Implications for Landlocked Countries" The World Bank, 2009)



^{*2} trips/day

The Impact of Air Cargo Services on Economic Development





The regulatory framework (continued)

ICAO also provides support to States to implement multilateral arrangements, such as the Montreal Convention 1999 (MC99)¹, which facilitates the use by airlines of electronic records, including electronic air waybills (e-AWB) and the Cape Town Convention 2001 (CTC 2001)2, enabling the acquisition of more modern aircraft.

Improved air connectivity is a key element to economic growth and development through air cargo transport.

The WCO supports enhanced facilitation of air shipments while ensuring safety and security of the air cargo supply chain through its several instruments and tools, for example the RKC, Risk Management Compendium, WCO Data Model, Dematerialization of Supporting Documents, Coordinated Border Management Compendium, Single Widow Compendium, and Customs-Business Partnership Guidance.

of global trade by value is transported by air

accuracy in predicting the World Air Freight growth and the World GDP growth (and vice-versa)

(Source: World Bank, "World Development Indicators"2002)

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Convention for the Unification of Certain Rules for International Carriage by Air, Montreal, 1999.

² Convention on International Interests in Mobile Equipment, Cape Town, 2001.

Role of Authorities

International organizations - ICAO

The International Civil Aviation Organization was created in 1944 by the Convention on International Civil Aviation (Chicago Convention) to promote the safe and orderly development of international civil aviation throughout the world. This specialized agency of the United Nations serves as the forum for cooperation in all fields of civil aviation among its 191 Member States, and sets Standards and regulations necessary for aviation safety, security, efficiency and regularity, as well as for aviation environmental protection. With the collaboration of Member States, ICAO plays an essential leadership role in the field of aviation security with the ultimate goal of enhancing civil aviation security worldwide. To this end, its efforts are focused primarily on developing and coordinating an effective global policy and legal framework in response to the evolving threat to civil aviation. The most important regulatory function performed by ICAO is the formulation and adoption of Standards and Recommended Practices (SARPs) for international civil aviation.

Aviation-security related SARPs are set out in Annex 17 to the Chicago Convention and all provisions related to facilitation are in Annex 9. A Standard is a specification to which Contracting States are obligated to conform unless they notify the impossibility of compliance, while a Recommended Practice is a specification the application of which is desirable.

The Aviation Security Manual (Doc 8973 — Restricted) assists Member States in implementing Annex 17 SARPs by providing guidance on how to apply the provisions. Annex 17 and the Manual are constantly reviewed and amended in light of new threats and technological developments that have a bearing on the effectiveness of measures designed to prevent acts of unlawful interference. In light of the October 2010 attempted acts of sabotage, in which improvised explosive devices were found concealed in ink cartridges on cargo aircraft, ICAO played an important role in developing new SARPs that are in line with new threats faced by the air cargo environment.

Further, increased cooperation on air cargo security and facilitation frameworks with industry stakeholders and other international organizations, such as the WCO and UPU, demonstrate the importance given to

air cargo security and facilitation by the international community. The development of technical expertise and the creation of working groups dedicated to air cargo security are also part of these efforts to increase both the level and quality of air cargo security baseline requirements implemented worldwide. Finally, the ICAO Implementation Support and Development - Security Section, within the Air Transport Bureau provides assistance to States in their efforts to implement Annex 9 and Annex 17 SARPs, including air cargo security aspects.

International organizations - WCO

Established in 1952 as the Customs Co-operation Council, the main mission of the World Customs Organization is to ensure the harmonization and standardization of Customs procedures and the development of Customs techniques in order to facilitate and secure international trade. The WCO is a setting in which governments can compare policy experiences, seek answers to common problems, identify best practices and standards, and coordinate Customs policies. The organization is also noted for its work in areas covering the development of global standards relating to trade facilitation, commodity classification, valuation, and rules of origin, as well as compliance issues, the security of the end-to-end supply chain, protection of the health and safety of people, the promotion of integrity, and sustainable Customs capacity-building initiatives.

As an intergovernmental organization, the WCO is the centre of excellence that provides leadership in Customs matters at the international level and advises Customs administrations worldwide on management practices, tools, and techniques to enhance their capacity to implement efficient and effective crossborder controls, along with standardized and harmonized procedures to facilitate legitimate trade and travel, and to interdict illicit transactions and activities. The WCO has gained a reputation as a positive force, enabling governments to attain their policy objectives through strengthening cooperation between Customs administrations, and implementing WCO instruments and international best practices, as global challenges transcend borders and call for worldwide responses. Securing trade and combating illegal trafficking and commercial fraud without disrupting legal trade

Role of Authorities

International organizations - WCO

(continued)

requires a high degree of cooperation between States, and the application of uniform methods and standards which are recognized and applied by all. As a frontline border agency dealing primarily with the cross-border movement of goods, people and means of transport. Customs is best placed to ensure the security of international trade, thus contributing to national economic competitiveness.

The WCO, with its 180 Members that are responsible for processing over 98 per cent of world trade, aims to be the voice of Customs and the global centre of excellence for the development and delivery of effective, efficient, and modern Customs procedures and standards, underpinned by international cooperation, knowledge sharing, good governance and leading capacity-building programmes, thereby meeting the needs of governments and society for a better world by being visionary, relevant and indispensable.

International organizations - UPU

Created in 1874 by the Treaty of Berne, the Universal Postal Union is an intergovernmental organization based in Berne, Switzerland. The rules applicable to the international postal service are given in its Convention and its Regulations, which are binding on all 192 Member States.

The UPU is the primary forum for cooperation between governments, posts and other stakeholders from the worldwide postal sector. It maintains a universal network that provides modern products and services and works to stimulate mail volume growth and improve the quality of service for customers. National postal networks are interconnected through regulations. standards and technological applications that help ensure coherence and improve the quality of postal services throughout the world.

The global postal sector faces many challenges stemming from market liberalization, increased competition and evolving communication technologies. These challenges are changing the face of postal

services worldwide. As physical mail volumes decline, new communication and information technologies and the growth of e-commerce are opening up a swathe of new opportunities. Posts today are diversifying into postal financial services, parcels and small-package delivery, logistics and postal e-services to meet these new market needs. UPU resources are being increasingly directed towards developing these new opportunities and meeting emerging challenges.

The UPU Secretariat, the International Bureau, has about 220 employees from all over the world. and oversees the work of the UPU in a wide range of areas, ranging from helping member States improve their quality of postal services to developing postal e-services and managing relationships with international Customs, aircraft operators, and standardization bodies to speed up the dispatch. processing and delivery of global postal services. The UPU also operates the .post top-level sponsored domain, a secure internet space for the postal industry to interconnect and secure global postal services, creating a new territory for the exchange of mail and new advanced digital postal services. The development of .post and the concurrent development of e-commerce are expected to boost postal traffic.

The UPU also has a long tradition in the areas of safety and security, which have their first origins in Customs controls. International mail has been subject to Customs controls since the time organized mail services were first established. Traditionally, individual postal packages and parcels have always been scrutinized at the point of acceptance for Customs purposes. With the advent of organized terrorism in the 1970s and early 1980s, postal security efforts were mainly directed towards the identification and elimination of explosives in the mail. Today, postal security units the world over work in cooperation with national law enforcement agencies to protect employees and customers, protect assets and revenue, and preserve the integrity of the mail. In response to the need to strengthen postal safety and security efforts worldwide and foster the development of a robust security culture within the global UPU community, the UPU established a Postal Security Group in 1996. The UPU also collaborates with other international and intergovernmental organizations to ensure that mail remains safe for transport.



International organizations - UNODC

The United Nations Office on Drugs and Crime (UNODC) was established in 1997 through a merger between the United Nations Drug Control Programme and the Centre for International Crime Prevention. Its mandate is to support Governments in the fight against illicit traffic in drugs, transnational organised crime and terrorism, under three international conventions:

- The United Nations Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances
- The United Nations Convention against Transnational Organised Crime
- The United Nations Convention against Corruption

The UNODC operates in all regions of the world through an extensive network of field offices. The three pillars of the work programme are capacity building in Member States to counter the illicit traffic of drugs, crime and terrorism; research and analytical work to increase knowledge and understanding of drugs and crime-related issues; and assisting States with the ratification and implementation of the relevant international treaties.

UNODC's technical support has always had a strong focus upon border management. Towards achieving this end, it has engaged not only nationally with Member States and their competent authorities but also in broader regional and global initiatives with international partners such as the World Customs Organization, the Universal Postal Union and Interpol among others, to strengthen practice, procedure and security at the border.

In 2004 UNODC and WCO commenced the Container Control Programme-Sea (CCP-Sea), supporting, inter alia, trade supply security in the maritime sector. This initiative continues to expand and now operates in 40 ports in 25 States. It has helped authorities to successfully identify and seize hundreds of maritime containers containing illicit goods, contraband and dangerous commodities.

In 2015, UNODC partnered again with WCO and now also with ICAO to jointly work with competent national authorities to establish specialized inter-agency aircargo units to target and prevent the misuse of the international air transport system and its trade supply chain. The CCP Air programme will seek to establish

inter-agency units at international airports to be trained in modern risk assessment, targeting and profiling techniques and, working within the national legal and operational frameworks, will support the identification of misdeclared/falsely declared illicit goods, contraband and dangerous commodities to be shipped via air transport. These new units will contribute to both security and trade facilitation of exports, imports and transhipments of air cargo.

National authorities – aviation security

The appropriate authority for aviation security is usually the Ministry of Transport or the Directorate General of Civil Aviation (Civil Aviation Authority). The appropriate authority has several responsibilities and tasks aimed at implementing SARPs at the national level. Further, the appropriate authority devises air cargo policies and regulations to comply with international obligations, and to effectively manage the risk to the air cargo supply chain, bearing in mind known threats and vulnerabilities, with threat assessment provided by national intelligence assessment agencies.

The appropriate authority is responsible for approving, through a designated process, the regulated agent status of candidate entities. The appropriate authority ensures that the regulated agent security programme fully conforms to applicable regulations in force at the national level and provides for a satisfactory level of security for all cargo to be loaded on to an aircraft.

If the security programme is considered satisfactory, the appropriate authority conducts an on-site verification of the implementation, effectiveness and efficiency of the security measures detailed therein. Following successful validation, the entity is considered to be a regulated agent for a limited period of time. The appropriate authority continues its oversight in order to ensure that the security programme is updated as needed and that the level of implementation of security measures is maintained throughout the period of validity of the regulated agent agreement. To that end, it may exercise its right to require information or documents and to conduct inspections. The appropriate authority may suspend or withdraw the regulated agent agreement if deficiencies are identified or reported, and the entity cannot act as a regulated agent until the identified deficiencies have been corrected.

Role of Authorities

National authorities – aviation security (continued)

States should also enact the appropriate legislation or regulatory framework that establishes a known consignor regime, defining the security requirements to be implemented by known consignors, as well as the approval and revocation process for entities wishing to operate as known consignors, and the roles and responsibilities to enable the effective implementation of a known consignor security programme.

Prior to approval as a known consignor, an applicant should be inspected by the appropriate authority (or an entity appointed to act on its behalf) to confirm that national security requirements for known consignors are implemented efficiently on site.

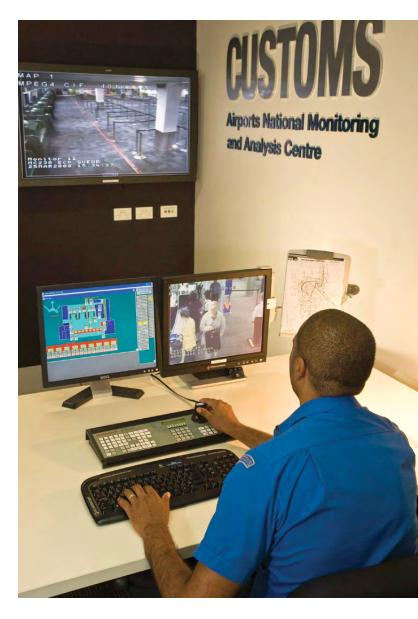
If an applicant meets the necessary requirements, the appropriate authority may designate the entity as a known consignor and add its name to the official air cargo database or list administered by the appropriate authority. Guidance on security requirements for known consignors, including a model known consignor security programme template, can be found in the ICAO Aviation Security Manual (Doc 8973 — Restricted).

National authorities - Customs

Customs is the State authority responsible for collecting and safeguarding Customs duties and for controlling the flow of passengers and goods, including animals, transport conveyances, personal effects and hazardous items, in and out of a State.

Customs enforces the rules and regulations related to the prohibited or restricted import or export of goods and is well-positioned to play a role in coordinated border management, involving cooperation among all relevant authorities and agencies concerned with border security and regulatory requirements that apply to passengers, goods, and conveyances moved across borders. Within the coordinated border management framework, States have set up Single

Windows as facilities that allow parties involved in trade and transport to lodge standardized information and documents with a single entry point to fulfil all import, export, and transit-related regulatory requirements. Not only does this facilitate trade, it also makes risk management for government agencies more effective and efficient.



Stakeholders

ICAO and WCO would like to thank the following stakeholders for their contribution to this publication. The sections below were respectively developed by ACI, FIATA, GEA, IATA and TIACA.

ACI - Airports Council International

Airports Council International (ACI), the only worldwide association of airports, has 590 member airport authorities, which operate 1,850 airports in 173 countries. ACI's mission is to promote professional excellence in airport management and operations, and this mandate is carried out through the organization's multiple training opportunities, as well as the Airport Service Quality customer service benchmarking programme, a wide range of conferences, industry statistical products and best practice publications.

Airports act as facilitators within the air cargo supply chain and provide the infrastructure and facilities that enable the smooth flow of trade by air cargo carriers. The relationship between the airport operator and the air cargo carrier will depend, to a large extent, on the type of air cargo operation and the mix of aircraft operations (all cargo, express carriers, all passenger carriers) and the specific requirements of each component.

Ensuring the security of air cargo at an airport depends upon the physical configuration of the airport, the relationship between all entities operating at the airport and the regulatory framework in place for the state.

FIATA – International Federation of Freight Forwarders Associations

FIATA, (from the French Fédération Internationale des Associations de Transitaires et Assimilés, in English, International Federation of Freight Forwarders Associations), was founded in Vienna, Austria on May 31st 1926.

FIATA today is the leading non-governmental organization in the field of transportation and logistics. representing in excess of 40,000 companies employing up to 10 million people in more than 150 countries. Its institutional Membership consists of 112 Association Members with voting rights and over 5,600 Individual members. FIATA is therefore best placed to represent the unique position of the forwarder in the global supply chain. Its members' expertise touches on all aspects of international transport and logistics and is fostered through an autonomous training programme that is deployed in almost 100 countries.

FIATA actively pursues its mandate to define, craft and promote the role of the forwarder in international air cargo with strong efforts to improve the professional standards of forwarders in air cargo, in regards to facilitation, safety and security. All these objectives are enshrined in the FIATA statutes that are publicly available on the FIATA website (www.fiata.com) together with a wealth of additional information on freight forwarding and logistics.

GEA – Global Express Association

The Global Express Association is a non-governmental organization that represents the four leading express delivery carriers: DHL Express, FedEx, TNT Express, and UPS. GEA was established in Switzerland in 1983 as the International Express Carriers' Conference, and has observer status with the United Nations, UPU, and the WCO. GEA participates frequently in several ICAO bodies and committees.

Stakeholders

IATA - International Air Transport **Association**

The International Air Transport Association was founded in Cuba in 1945. IATA is the prime vehicle for inter-airline cooperation in promoting safe, reliable, secure and economical air services, for the benefit of the world's consumers. The international scheduled air transport industry is now more than 100 times larger than it was in 1945. Few industries can match the dynamism of that growth, which would have been much less spectacular without the standards, practices and procedures developed within IATA. At its founding, IATA had 57 members from 31 nations, mostly in Europe and North America. Today it has some 240 members from 126 nations in every part of the globe, representing 84 per cent of total air traffic. The modern IATA is the successor to the international air traffic association founded in The Hague in 1919, the year of the world's first international scheduled services. Air transport is one of the most dynamic industries in the world, and IATA is its global trade organization. Over 70 years, IATA has developed the commercial standards that built a global industry.

TIACA - The International Air Cargo **Association**

TIACA is a global non-profit trade association representing all the major segments of the air cargo and air logistics industry, including passenger and all-cargo aircraft operators, forwarders, airports, ground handlers, road carriers, Customs brokers, logistics companies, shippers, information technology companies, aircraft and equipment manufacturers, trade press and educational institutions.

To accomplish its mission, TIACA engages in activities that seek to improve industry cooperation, promote innovation, share knowledge, enhance quality and efficiency and promote education. TIACA aims to inform both the public and its membership about the role and importance of air cargo, industry developments, and technical trends. TIACA engages with relevant authorities and publishes position papers on industry issues as well as the TIACA Times newsletter. The TIACA website is a valuable industry resource which contains a fully searchable database of information on industry issues. TIACA has developed research relationships with several universities through joint projects and student scholarship programmes.

Glossary

Airside

The movement area of an airport, adjacent terrain and buildings or portions thereof, access to which is controlled.

Consignment

One or more items accepted by the carrier from one shipper at one time and at one address, receipted in one lot and moving on one air waybill or shipment record to one consignee at one destination address.

Consolidation

A consignment of multiple -packages which has been originated by more than one entity, each of which has made an agreement for carriage with a freight forwarder.

Usually a consolidation implies the issuing of a master air waybill to which are linked several house air waybills and a cargo manifest.

Landside

The area of an airport and buildings to which both travelling passengers and the non-travelling public have unrestricted access (non-restricted area).

Security Restricted Area

Those areas of the airside of an airport which are identified as priority risk areas where, in addition to access control, other security controls are applied. Such areas will normally include, inter alia, all commercial aviation passenger departure areas between the screening checkpoint and the aircraft, the ramp, baggage make-up areas, including those where aircraft are being brought into service and screened baggage and cargo are present, cargo sheds, mail centres, and airside catering and aircraft cleaning premises.

Transfer Cargo and Mail

Cargo and mail departing on an aircraft other than that on which it departed.

Moving Air Cargo Globally

The purpose of this publication is to promote awareness of the air cargo and mail supply chain, with an emphasis on the related security and facilitation procedures developed by the International Civil Aviation Organization (ICAO), the World Customs Organization (WCO), the Universal Postal Union (UPU) and also the United Nations Office on Drugs and Crime (UNODC).

The intent is to provide a better understanding of supply chain security for those who work in the cargo field, and more broadly, anyone who might benefit from knowing more about international air cargo and mail security standards.

This document familiarizes readers with the roles and responsibilities of all entities involved in the transport of cargo and mail by air. It covers the various operational aspects, security factors, facilitation processes and documentation of that supply chain.

The reader will gain an understanding of the applicable regulatory frameworks and efforts made by International Organizations and their members to support information sharing and continued development of a secure air cargo industry. These provisions and activities enhance the movement of goods by promoting effective end-to-end supply chain security.



SECURITY & FACILITATION

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