



ANNEX BUSINESS CONTEXT AND ASSOCIATED MESSAGING

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1 // Introduction

1.1 // Track Changes

The track changes table features the parts of this document which have changed compared to the previous version.

Version	Parts that change	Change description
07 Feb'17	--	Versión Inicial
<u>04 Feb'20</u>	<u>2.2, 2.3.2</u>	<u>Added</u> <u>CargoSmart</u> <u>conditions</u>

1.2 // Purpose

The object of this document is to describe the business context and associated messaging of **valenciaportpcs** Booking Service.

1.3 // Scope

This document is intended for the people in charge of the implementation of the **valenciaportpcs** Booking Service messages.

1.4 // Reference documents

Reference	Document name	Version	Source	Link

1.5 // Reference documents

Reference	Date	Document	Link

1.6 // Abbreviations and acronyms

Term	Meaning

2 // Business context and associated messaging

Valenciaportpcs.net offers users the chance to use just one Booking format, irrespective of the format used by the receiving carrier. The portal transforms the messages received from the users to the destination format required by the receiving carriers or shipping agents.

To use valenciaportpcs.net's Booking service via messaging, three messages are used: IFTMBF, Bookings; APERAK, answer of carrier and IFTMBC, Booking Confirmation.

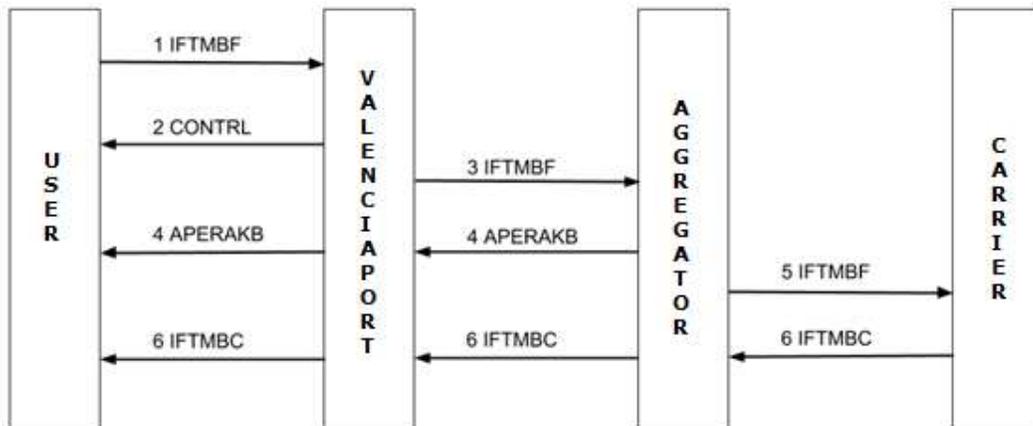
The user can use the IFTMBF message to make new Bookings, and to amend or reject existing ones.

As a result of the interchanges between Forwarders and Carriers/Shipping Agents, Bookings can change state during their life cycle. The following points show the different states and the transactions carried out to move from one to another.

2.1 // Message information flow

2.1.1. Message flow with aggregator

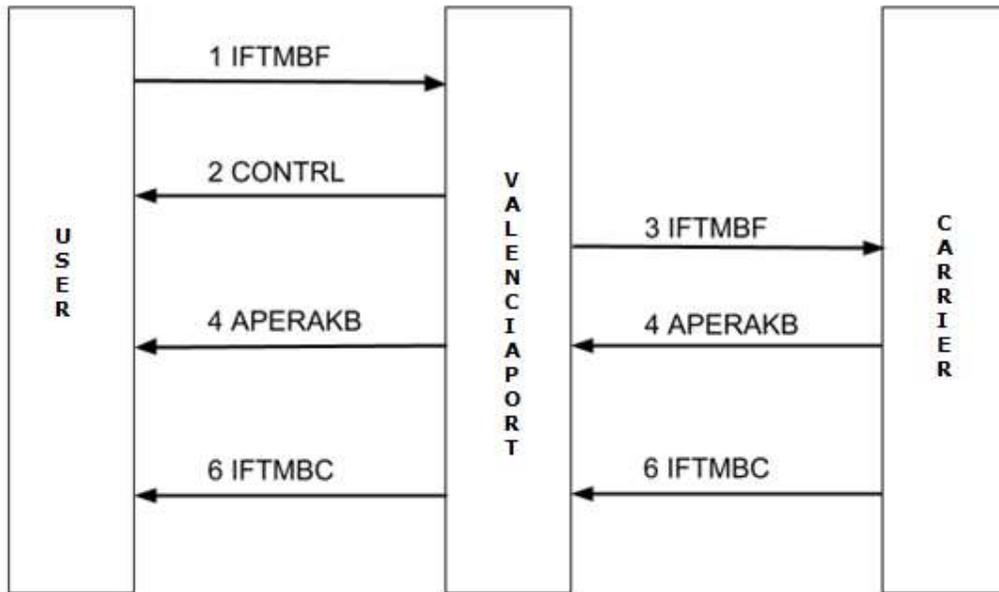
Sending a Maritime Booking Request to the end recipient (transport provider) and the different responses that the sender can receive, follow the message flow shown below.



1. The user sends the Maritime Booking Request (*IFTMBF* message) to valenciaportpcs.net.
2. valenciaportpcs.net validates the content of the message, answering the user with a *CONTRL* acceptance or rejection message, depending on whether the *IFTMBF* sent contains errors or.
3. If the *IFTMBF* message does not contain any errors, it will be forwarded to aggregator.
4. The aggregator can send an acceptance or a rejection with an *APERAKB* message and valenciaportpcs.net will forward this message to the user.
5. If the *IFTMBF* is accepted by the aggregator it will be forwarded to the carrier.
6. Finally, the carrier/shipping agent can send a Booking Confirmation message (for full details about the (*IFTMBC* message, see the specific guide) conditionally or unconditionally accepting or rejecting the content of the *IFTMBF* sent, and valenciaportpcs.net will forward this message to the user.

2.1.2. Message flow without aggregator

Sending a Maritime Booking Request to the end recipient (transport provider) and the different responses that the sender can receive, follow the message flow shown below.



1. The user sends the Maritime Booking Request (*IFTMBF* message) to valenciaportpcs.net. The format and semantics this message must follow are described in this document.
2. valenciaportpcs.net validates the content of the message, answering the user with a *CONTRL* acceptance or rejection message, depending on whether the *IFTMBF* sent contains errors or.
3. Carrier/shipping agent can send an acceptance or a rejection with an *APERAKB* message and valenciaportpcs.net will forward this message to the user.
4. If the *IFTMBF* message does not contain any errors, it will be forwarded to the carrier/shipping agent receiving the document.
5. Finally, the carrier/shipping agent can send a Booking Confirmation message (for full details about the *IFTMBC* message, see the specific guide) conditionally or unconditionally accepting or rejecting the content of the *IFTMBF* sent, and valenciaportpcs.net will forward this message to the user.

2.2 // State machine

The state machine for valenciaportpcs.net's Booking service is shown below.
Accepted states for the Booking¹:

- **SENT (SEN):** Bookings sent to valenciaportpcs.net which have successfully passed the system's validations.
 - State only visible to the Forwarder sending the Booking.
 - Change in state brought about by the sender of the Booking.
 - It is possible to receive an APERAKB and it will change the Booking to Delivered (DEL) or Not Delivered (NDE) depending on its content.
 - When the Booking Confirmation is received from the carrier/shipping agent, the Booking state can change to Pending (PEN), Accepted (ACE), Conditionally Accepted (ACR), Replaced (REP), or Rejected (REJ), according to its content.

¹No distinctions are made between standard and split bookings as the actions and states are common to both of them.

- In this state, a booking can be cancelled without having to wait for the Booking Confirmation from the carrier/shipping agent (updating the Booking state to Cancelled (CAN)).
- For the Carriers that work with CargoSmart aggregator, cancellation only will be possible if the Booking Request has been confirmed by the carrier.
- **DELIVERED (DEL):** Bookings which have been delivered to the Carrier.
 - Change in state brought about by the Carrier APERAKB.
 - The user sending the Booking can not amend it (updating the Booking state to Sent, SEN) or cancel it (updating the Booking state to Cancelled, CAN).
 - It can be changed by a Booking Confirmation from Carrier.
- **NOT DELIVERED (NDE):** Bookings which have not been delivered to the Carrier.
 - Change in state brought about by the Carrier APERAKB.
 - No action can be taken in this state. It is therefore a **Terminated State**.
- **PENDING (PEN):** Bookings pending processing by the Carrier.
 - Change in state brought about by the Booking Confirmation.
 - It indicates that the Carrier has accepted to work with the Booking document, but that this is still being processed.
 - The user sending the Booking can amend it (updating the Booking state to Sent, SEN) or cancel it (updating the Booking state to Cancelled, CAN). For the carriers that work with CargoSmart, cancellation is not possible until the Booking Request has been confirmed by the carrier.
 - As a result of new Booking Confirmations sent by the Carrier this state can change to Accepted (ACE), Conditionally Accepted (ACR), Pending (PEN), Replaced (REP), or Rejected (REJ).
- **ACCEPTED (ACE):** Bookings accepted by the Carrier.
 - Change in state brought about by the Booking Confirmation.
 - The user sending the Booking can amend it (updating the Booking state to Sent, SEN) or cancel it (updating the Booking state to Cancelled, CAN).
 - As a result of new Booking Confirmations sent by the Carrier this state can change to Accepted (ACE), Conditionally Accepted (ACR), Replaced (REP), or Rejected (REJ).
- **ACCEPTED WITH CONDITIONS (ACR):** Bookings accepted by the Carrier, which may have undergone major content changes (dates, etc.).
 - Change in state brought about by the Booking Confirmation.
 - The user sending the Booking can amend it (updating the Booking state to Sent, SEN) or cancel it (updating the Booking state to Cancelled, CAN).
 - As a result of new Booking Confirmations sent by the Carrier this state can change to Accepted (ACE), Conditionally Accepted (ACR), Replaced (REP), or Rejected (REJ).
- **REJECTED (REJ):** Bookings rejected by the Carrier.
 - Change in state brought about by the Booking Confirmation.
 - No action can be taken in this state. It is therefore a **Terminated State**.
- **REPLACED (REP):** Bookings replaced by the Carrier with one or several confirmations.
 - Change in state brought about by the Booking Confirmation.

- The carrier replaces the full Booking being responded to with one or several confirmations. For the user sending the Booking, this is equivalent to the Carrier rejecting the original Booking, and generating one/several new Bookings through the Confirmations it sends.
- No action can be taken in this state. It is therefore a **Terminated State**.
- **CANCELLED (CAN):** Bookings cancelled by the Forwarder.
 - Change in state brought about by the sender of the Booking.
 - No action can be taken in this state. It is therefore a **Terminated State**.

2.3 // Sending replacements and cancellations

2.3.1. Replacements

- These are accepted for Bookings that have been confirmed by the Carrier or are Pending. States:
 - **PEN**, pending;
 - **ACE**, accepted;
 - **ACR**, accepted with conditions
- The use of replacements is only recommended when the user needs to make specific changes to a previously requested Booking. In this case, the replacement sent should contain as much information as possible (the minimum set of data sent in a Booking Request replacement should coincide with the minimum set of data required to send an original Booking Request).
- When a Booking is replaced, the values of the following elements must coincide with the values input in the existing Booking:
 - Booking document reference
 - *BeginningOfMessage/DocumentMessageIdentification/DocumentMessageNumber =N/A*
 - N.B.: This element must not be sent in the original Booking. The user will be notified of the value assigned by valenciaportpcs.net to the *DocumentMessageNumber* element in the CONTRL acknowledgment message (*ReferenceIdentifier* element when *ReferenceFunctionCodeQualifier = "AQY"*).
 - Carrier receiving the Booking
 - *DetailsOfTransport/Carrier/CarrierIdentification* and *NameAndAddressHeader/NameAndAddress/PartyIdentificationDetails/PartyIdentifier* when *NameAndAddressHeader/NameAndAddress/PartyFunctionCodeQualifier = "CA"*
 - Contracting or Booking Party
 - *NameAndAddressHeader/NameAndAddress/PartyIdentificationDetails/PartyIdentifier* when *NameAndAddressHeader/NameAndAddress/PartyFunctionCodeQualifier = "ZZZ"*
 - Booking reference or *Carrier Booking Number*
 - *ReferenceHeader\ReferenceIdentifier* when *ReferenceFunctionCodeQualifier = "BN"*
 - N.B.: The user will be notified of the value in the IFTMBC Booking Confirmation message.

2.3.2. Cancellations

- Accepted for Bookings that:
 - Have been confirmed by the Carrier or are Pending. For the Carriers that work with CargoSmart, cancellation is possible only if the Booking Request has been confirmed by the Carrier. States:
 - **PEN**, pending;
 - **ACE**, accepted;
 - **ACR**, accepted with conditions
 - Have not been processed, State:
 - **SEN**, sent
- Only the following are processed, in the case of cancellations:
 - *Transaction identifiers.* These include: “Carrier Reference²”, “Booking party³”, “Carrier⁴” and “Carrier Booking Number⁵”
 - *Transaction contacts*
 - *Transaction dates/times*
 - *User comments about the cancellation*
 - Any other information provided in the Cancellation will be ignored.
 - Summary of segments whose content (total or partial) is processed (taken into account by the system) for cancellations. Any other segments not indicated here will be ignored if sent.
 - MessageHeader
 - BeginningOfMessage
 - DateTimePeriod
 - FreeText
 - ReferenceHeader
 - NameAndAddressHeader/NameAndAddress
 - NameAndAddressHeader/Reference
- When a Booking is cancelled, the values of the following elements must coincide with the values input in the existing Booking:
 - Booking document reference
 - *BeginningOfMessage/DocumentMessageIdentification/DocumentMessageNumber =N/A*
 - N.B.: This element must not be sent in the original Booking. The user will be notified of the value assigned by valenciaportpcs.net to the *DocumentMessageNumber* element in the CONTRL acknowledgment message (*ReferenceIdentifier* element when *ReferenceFunctionCodeQualifier = “AQY”*).
 - Carrier receiving the Booking
 - *DetailsOfTransport/Carrier/CarrierIdentification and NameAndAddressHeader/NameAndAddress/PartyIdentificationDetails/PartyIdentifier* when

² Reference/ReferenceFunctionCodeQualifier = “ZZZ”

³ NameAndAddressHeader/NameAndAddress/PartyFunctionCodeQualifier = “ZZZ”

⁴ NameAndAddressHeader/NameAndAddress/PartyFunctionCodeQualifier = “CA”

⁵ Reference/ReferenceFunctionCodeQualifier = “BN”

NameAndAddressHeader/NameAndAddress/PartyFunctionCodeQualifier = "CA"

- Contracting or Booking Party
 - *NameAndAddressHeader/NameAndAddress/PartyIdentificationDetails/PartyIdentifier* when *NameAndAddressHeader/NameAndAddress/PartyFunctionCodeQualifier = "ZZZ"*
- Booking reference or *Carrier Booking Number*
 - *ReferenceHeader/ReferenceIdentifier* when *ReferenceFunctionCodeQualifier = "BN"*
 - *N.B.: The user will be notified of the value in the IFTMBC Booking Confirmation message.*

2.4 // Special cases: Stand-alone Booking Confirmations

Valenciaportpcs.net enables Carriers to send Booking Confirmations (in Accepted or Conditionally Accepted states), for cases in which the Forwarder has made a Booking outside the system. These confirmations can be checked by the Forwarder on valenciaportpcs.net, although the information it sends to the Carrier externally in its original Booking cannot be shown.

2.4.1. Characteristics

- Stand-alone Booking Confirmations will only be processed if they have at least one registered active party on the valenciaportpcs.net platform, as well as the party indicated as the Carrier (**CA**) on the message.

2.5 // Split bookings

Valenciaportpcs.net allows Carriers to send "split" Booking Confirmations. This procedure is initiated when the Carrier receiving the Booking gives several different confirmations ("split").

2.5.1. Characteristics

- These are accepted for active Bookings that have been confirmed by the Carrier or are Pending. States:
 - **PEN**, pending;
 - **ACE**, accepted;
 - **ACR**, accepted with conditions
- Those which have not been replaced by the Carrier, State:
 - **SEN**, sent;
 - **DEL**, delivered
- The outcome of splitting a Booking is the creation of one or several new Bookings. These new Bookings are divisions of the original Booking or the one being responded to.
- Split bookings keep the same Reference Number that was assigned to the original document (*BeginningOfMessage/DocumentMessageIdentification/DocumentMessageNumber*). This means that users receive different Bookings with the same *DocumentMessageNumber*, but with different References with the qualifier **ZZZ** (*Split Reference Number*) and the qualifier **BN** (*Carrier Booking Number*).
- Only the Bookings that have been "split" and then "Confirmed" by the Carrier can be amended by the Forwarder (*sender of the original Booking*) through the use of replacements. See ["2.3// Sending replacements and cancellations"](#)

- A split Booking can in turn be split again with new confirmations throughout its life cycle (See "[2.2 // State Machine](#)").



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