DCSA Interface Standard for the Booking process 1.0

December, 2022

Purpose

This document provides the DCSA interface standard for the booking process as applied in container shipping. 10 detailed uses cases standardise the fundamental information exchanged between shippers and carriers to support the booking request and confirmation process

Table of contents

Tables

Figures

1 Introduction

1.1 Preface

DCSA envisions a digitally interconnected container shipping industry. Our mission is to be the de facto standards body for the industry, setting the technological foundation for interoperable IT solutions. Together with our member carriers, DCSA creates vendor-neutral, technology-agnostic standards for IT and non-competitive business practices. By working towards the widespread adoption of these standards, our aim is to move the industry forward in terms of customer experience, efficiency, collaboration, innovation and respect for the environment. Please refer to the DCSA website (https://dcsa.org/about/) for more information.

The objective of the DCSA Data and Interface Standard program is to strengthen the container shipping industry's ability to send and receive data across all parties in the industry. Furthermore, it aims to enhance inter-carrier cooperation based on shared requirements and to ensure interoperability by using a shared data language. Ideally, this language will be inspired by existing standards and aligned with the industry process definitions put forth in the DCSA Industry Blueprint.

The standards published by DCSA are technology agnostic. DCSA does not point to the use of specific vendors' technologies or systems but relies on open-source, shared requirements for the industry that can be used by all parties, regardless of their choice of technology.

This chapter describes the purpose, scope, conformance and supporting publications of this document.

1.2 Purpose

The objective of the DCSA Interface Standard for the Booking process is to simplify the exchange of information between shippers and carriers, as related to a booking. In doing so, this publication supports standardisation of the fundamental information exchanged between shippers and carriers. The focus of this publication is to ensure agreement on the shared requirements and standards that must be followed to streamline inter-operational functionality and data sharing across relevant industry participants.

Agreement on standards will ensure that data exchange interfaces, including functionality and data provided, will follow the same definitions and design. The aim is to ensure that the end-user experience remains consistent across all industry participants who use these standards. Hence, the interface elements must remain consistent whether they are built using EDI messaging, interactive UIs, APIs, manual data exchanges or any other interface technology.

1.3 Scope

1.3.1 Process

The Interface Standard for the Booking process focuses on the process steps 'Booking Request' and 'Confirm booking' as part of the end-to-end documentation process:

1.3.2 Actors

In defining a technology-agnostic interface standard, the interface describes all exchanges of information between any two parties. For the exchange of information regarding Booking request and Booking Confirmation, the most relevant parties are:

- Shipper or booking party
- Carrier

Other parties involved in the exchange of information regarding bookings, such as container depots and customs authorities are not in scope of this publication.

1.4 Conformance

All parties in the container shipping industry are encouraged to implement and follow the data and interface requirements outlined and specified in this document. The requirements are linked to the UML version 2.0 diagrams for design requirements as well as the Logical Data Model and data definitions for information requirements, which must be implemented to conform to the agreed standards within the DCSA framework.

1.5 Supporting publications.

This document is supported by a range of supplementary DCSA publications. The supporting publications are listed in the table below and they can be found on the DCSA website (https://dcsa.org/).

Index	Publication	Descriptions
1	DCSA Interface Standard for the Booking Process Reading Guide	The reading guide provides insight into the container shipping documentation process and specifically addresses the Booking process steps.
2	DCSA Information Model 2022.Q4	The DCSA Information Model has been created to organise and catalogue the information being generated or consumed in connection with the processes described in the DCSA Industry Blueprint. The information model is also used as a collective term to describe all products that model data. The information model includes a diagrammatic representation of selected data entities and their relationships with one another.
3	DCSA Information Model 2022.2 Reading Guide	This document helps to set the context for DCSA initiatives. The Reading Guide provides insight into the different concepts and methods utilised in the production of the Information Model and suggests ways in which the document can be used.

Index	Publication	Descriptions
4	DCSA Glossary of Terms	This document promotes alignment of terms across all DCSA stakeholders in the container shipping industry. The Glossary is published on the DCSA website in the context of the DCSA Industry Blueprint.
5	DCSA Industry Blueprint 2022.1	This document provides insights into as-is carrier processes. The DCSA Industry Blueprint comprises processes related to the movement of a container/equipment from one location to another, processes that are linked to a shipment/booking, processes that are considered critical for industry digitisation and standardisation efforts, and finally processes that are not considered commercially sensitive or of competitive advantage.
6	DCSA Event Naming Convention 1.0, and Event Structure Definitions 1.0	Throughout the years, track and trace solutions have become a commonly seen service in the container shipping industry. However, due to misalignment of terminology and business practices, each carrier has created and published (online) their own definitions for events. To align these across the industry, this document provides a standard naming convention that enables a common understanding of customer-facing track and trace events.
7	DCSA Schedule Definitions 1.0	This document standardises the terminology and definitions with respect to communication of operational deep-sea (inter-regional) vessel schedules between Vessel Sharing Agreement (VSA) partners. The purpose is to facilitate standardisation and accuracy in partner communication and hence reduce the pain-points that carriers raised in this area. It is understood that not all VSA's (or carriers) apply ALL processes, but for the sake of completeness, the full process definitions are shared with all members. The purpose is to standardise what and when partners communicate (and to whom) with respect to operational vessel schedules and related exception-management. The definitions and time specifications add context to the vessel schedule process maps that have been circulated separately to members.

Index	Publication	Descriptions
8	DCSA Interface Standard for Operational Vessel Schedule 1.0 and respective Reading Guide	The DCSA Interface Standard for Operational Vessel Schedule has been created to simplify the exchange of vessel schedule-related information between vessel operators, and to support the standardisation of the fundamental information provided across the vessel operator liner domain. The reading guide provides insight into the different concepts and methods utilised in the production of the OVS Interface Standard and suggests ways in which the document can be used as a foundation for future implementations.
9	DCSA Interface Standard for Track and Trace 2.1 and respective Reading Guide	The DCSA Interface Standard for Track and Trace 2.1 has been created to standardise the fundamental information provided across the carrier liner domain through track and trace interfaces. The Reading Guide provides insight into the different concepts and methods utilised in the production of the Track and Trace Interface Standard and suggests ways in which the document can be used as a foundation for future implementations.
10	DCSA Interface Standard for Bill of Lading 2.0 and respective reading guide	The DCSA Interface Standard for Bill of Lading has been created to standardise the fundamental information provided across the carrier liner domain through documentation interfaces. The Reading Guide provides insight into the different concepts and methods utilised in the production of the eBL Interface Standard and suggests ways in which the document can be used as a foundation for future implementations.

Table 1: Supporting publications.

2 Use cases

2.1 Use Cases

Following the user stories that have been defined by DCSA's members regarding information exchange for the process steps booking request and booking confirmation, nine use cases have been identified.

Use Case #	Use Case name	[actor] to [actor]
1	Post Booking request	Shipper to carrier
2	Request missing information to booking request	Carrier to shipper
3	Post updated booking request	Shipper to carrier
4	Reject booking request	Carrier to shipper
5	Confirm booking	Carrier to shipper
6	Request to update booking	Carrier to shipper
7	Request amendments to booking	Shipper to carrier
8	Confirm amendments to booking request	Carrier to shipper
9	Cancel booking by shipper	Shipper to carrier
10	Cancel booking by carrier	Carrier to shipper

Table 2: Use Cases

For each use case a definition is given, supported by a UML Use Case Diagram. Further, UML Activity Diagrams depict the activity flow of each use case, and inputs and outputs are provided. The listed attributes are part of the DCSA Information Model 2022.Q4.

3. Use Case 1: Post Booking request

3.1 Use Case Definition

This section describes the use case of 'Post Booking request' via an exemplified interaction between shipper and carrier. Figure 1: Use Case Diagram UC 1 supports this use case, displaying the interaction between the shipper and carrier.

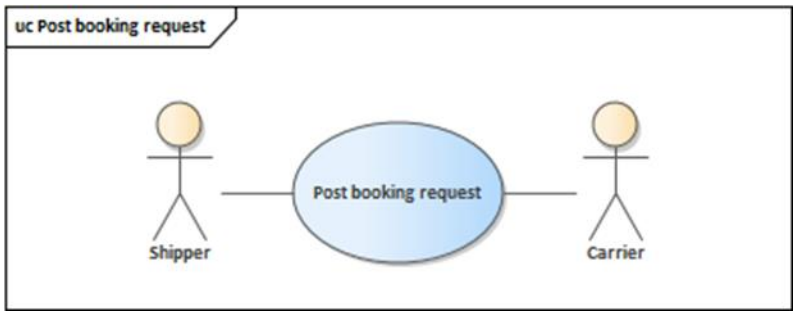

Figure 1: Use Case Diagram UC 1

Name of use case	Post Booking request (shipper to carrier)		
Created by	DCSA	Last updated by	DCSA P1
Date Created	February 2021	Last revision date	November 2021
Description	The shipper posts the booking request for his shipment. If the posting was successful, the carrier will respond with a success message.		
Actors	Shipper, Carrier		
Preconditions	Shipper has information for booking Booking request status: N/A		
Postconditions	The Booking request is successfully posted, and the shipper has received a success message from the carrier. Booking request status: RECEIVED		
Flow	1. Shipper posts booking request. 2. If posting is successful, Carrier responds with success message.		
Exceptions	2a. Shipper is unable to post the Booking request. Shipper will receive an error message. Booking request status: N/A		

Table 3: Use Case Definition UC 1

3.1.1 Booking request

The booking request is the initial phase of the documentation process. In the booking request, the customer provides all information required by the carrier to receive a booking so that the carrier can execute internal processes in order to respond to the booking request (decline, stand-by or confirm).

3.1.2 Preconditions

The Booking Request includes information that is provided by the customer.

3.2 Activity Diagram

The purpose of the activity diagram is to capture dynamic behavior in the system as a message flow. Figure 2: Activity Diagram UC 1 describes the activity flows that the interface for posting Booking request provides. The interface activity flow for 'Post Booking request' can follow two paths: the success path or the exception path. The success path begins with a shipper posting a booking request. If the post is successful, the carrier responds with a success message, indicating that the Booking Request is received. If the submission was not successful, the exception path is followed, in which an error message is returned to the shipper indicating that posting the Booking request failed.

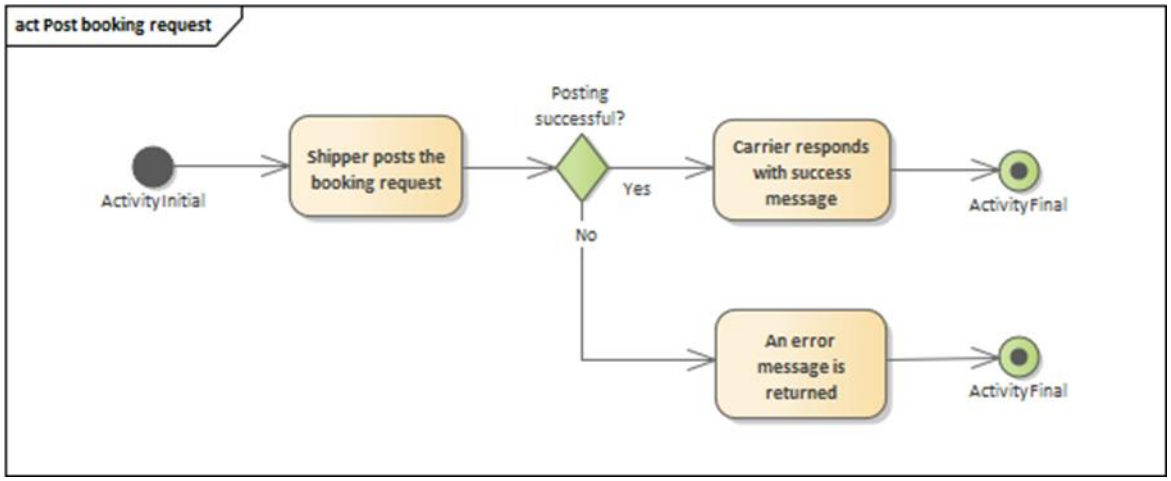

Figure 2: Activity Diagram UC 1

3.3 Input

The Booking request consists of an array of <shipment locations>, a list of <Requested Equipment>, a list of <Document Parties>, a list of References <References>, a list of Transport attributes <Transport> and other attributes that are relevant to the Booking request itself.

'Chapter 13. Data overview' contains the attributes that are relevant input for this Use Case.

3.4 Output

If the posting of the Booking request was successful, the carrier will respond with a success message including a Carrier Booking Request Reference, indicating that the Booking request is received. The Booking request status is now RECEIVED. If the posting is unsuccessful, the shipper will receive an error message.

4. Use Case 2: Request missing information to booking request .

4.1 Use Case Definition

This section describes the use case of 'Request missing information to booking request' via an exemplified interaction between carrier and shipper. Figure 3: Use Case Diagram UC 2 supports this use case, displaying the interaction between the carrier and shipper.

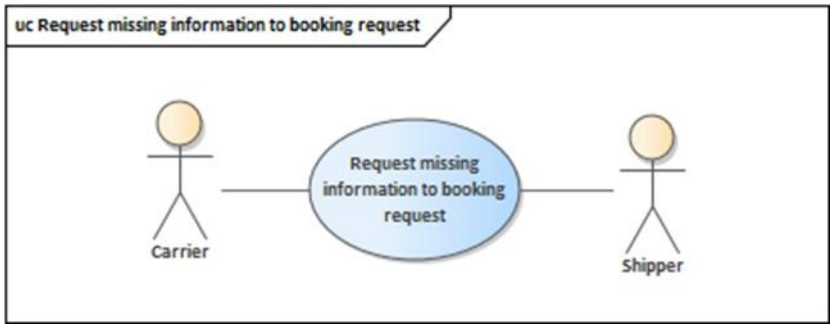

Figure 3: Use Case Diagram UC 2

Name of use case	Request missing information to booking request (carrier to shipper)		
Created by	DCSA	Last updated by	DCSA P1
Date Created	February 2021	Last revision date	November 2021
Description	Carrier requests the shipper to provide missing information in the booking request.		
Actors	Carrier, Shipper		
Preconditions	Booking request has been received by the carrier. Booking request status: RECEIVED or PENDING UPDATE.		
Postconditions	Request to provide missing information has been successfully sent. Booking request status: PENDING UPDATE		
Flow	1. Carrier requests the shipper to provide missing information to the booking request. 2. If request is successful, Shipper responds with a success message.		
Exceptions	2a. Carrier is unable to request the missing information in the booking request. Booking request status: PENDING UPDATE.		

Table 4: Use Case definition UC 2

4.2 Activity Diagram

The purpose of the activity diagram is to capture dynamic behavior in the system as a message flow. Figure 4: Activity Diagram UC 2 describes the activity flows that the interface for Request missing information to booking request provides. The interface activity flow for 'Request missing information to booking request' can follow two paths: the success path or the exception path. The success path begins with a carrier requesting missing information to the booking request. If the post is successful, the shipper responds with a success message, indicating that the request is received. If the post was not successful, the exception path is followed.

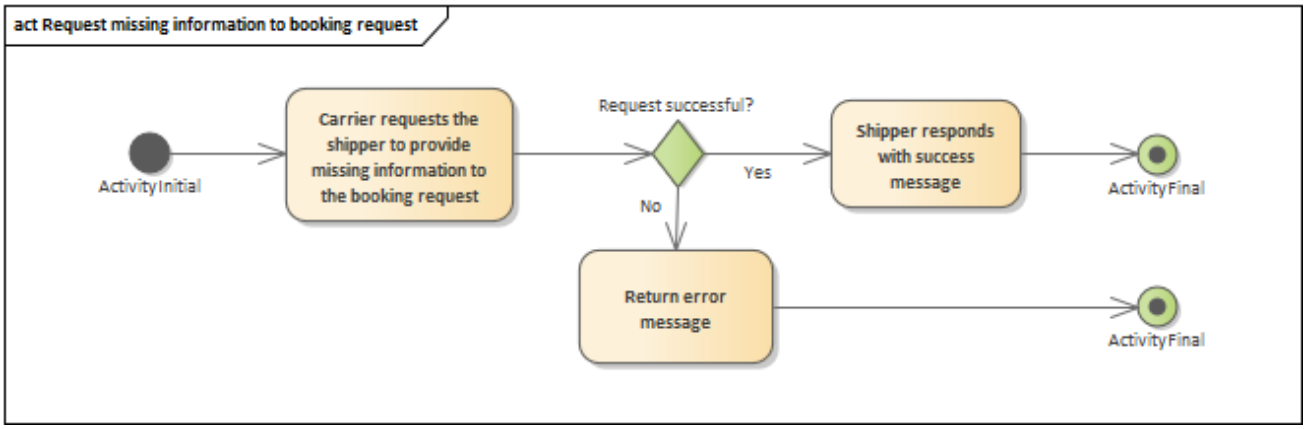

Figure 4: Activity Diagram UC 2

4.3 Input

The <Carrier Booking Request Reference> is input to this Use Case, as well as a text field as part of the request message, describing the reasons for requesting the update.

'Chapter 13. Data overview' contains the attributes that are relevant input for this Use Case.

4.4 Output

If the 'request missing information to booking request' was successful, the shipper will respond with a success message, indicating that the request for missing information is received. The booking request status is now PENDING UPDATE.

If the request was unsuccessful, the shipper will respond with an error message. Booking request status is still PENDING UPDATE.

5. Use Case 3: Post updated booking request.

5.1 Use Case Definition

This section describes the use case of 'Post updated booking request' via an exemplified interaction between carrier and shipper. Figure 5: Use Case Diagram UC 3 supports this use case, displaying the interaction between the shipper and carrier.

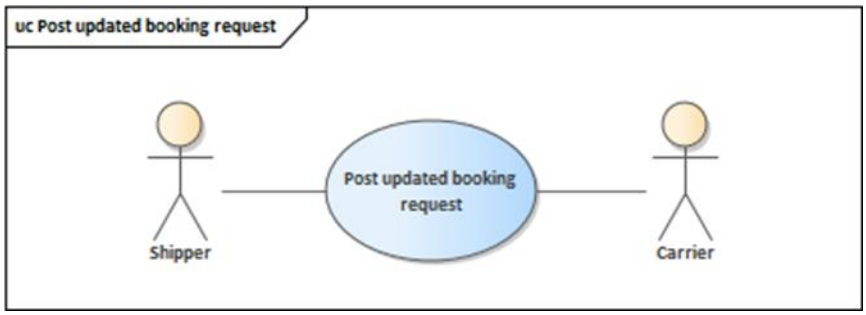

Figure 5: Use Case Diagram UC 3

Name of use case	Post updated booking request (shipper to carrier)		
Created by	DCSA	Last updated by	DCSA P1
Date Created	February 2021	Last revision date	November 2021
Description	Shipper posts the updated booking request.		
Actors	Carrier, Shipper		
Preconditions	Carrier has informed the shipper on missing or incorrect information or shipper wants to change his booking request. Booking request status: RECEIVED or PENDING UPDATE.		
Postconditions	Updated booking request has been successfully posted. Booking request status: PENDING CONFIRMATION		
Flow	1. Shipper posts the updated booking request. 2. If posting is successful, Carrier responds with a success message.		
Exceptions	2a. Shipper is unable to post the updated booking request. Booking request status: RECEIVED or PENDING UPDATE.		

Table 5: Use Case definition UC 3

5.2 Activity Diagram

The purpose of the activity diagram is to capture dynamic behavior in the system as a message flow. Figure 6: Activity Diagram UC 3 describes the activity flows that the interface for posting an updated booking request provides. The interface activity flow for 'Post updated booking request' can follow two paths: the success path or the exception path. The success path begins with a

shipper posting the updated booking request. If the post is successful, the carrier responds with a success message, indicating that the updated booking request is received. If the post was not successful, the exception path is followed.

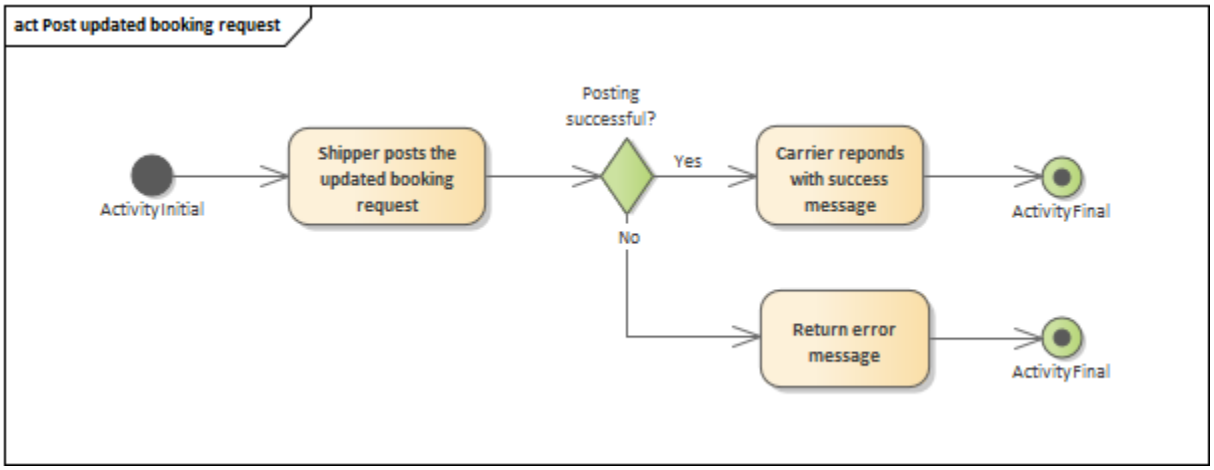

Figure 6: Activity Diagram UC 3

5.3 Input

To refer to the correct Booking Request, the <Carrier Booking Request Reference > is needed. All attributes from Use Case 1 can be updated in Use Case 3.

'Chapter 13. Data overview' contains the attributes that are relevant input for this Use Case.

5.4 Output

If the updated booking request was posted successfully, the carrier will respond with a success message, indicating that the updated booking request is received. The booking request status is now PENDING CONFIRMATION at carrier side.

If the request was unsuccessful, the carrier will respond with an error message. The booking request status remains RECEIVED or PENDING UPDATE.

6. Use Case 4: Reject booking request (update).

6.1 Use Case Definition

This section describes the use case of 'Reject booking request (update)' via an exemplified interaction between shipper and carrier. *Please note that if a Booking request update is rejected, the entire booking request is rejected.* Figure 7: Use Case Diagram UC 4 supports this use case, displaying the interaction between the carrier and shipper.

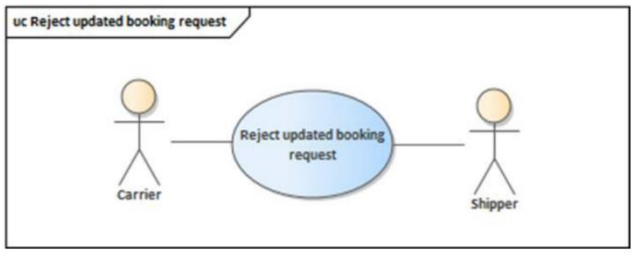

Figure 7: Use Case Diagram UC 4

Name of use case	**Reject booking request (carrier to shipper)**		
Created by	DCSA	Last updated by	DCSA P1
Date Created	February 2021	Last revision date	November 2021
Description	Carrier rejects the booking request (update) from the shipper.		
Actors	Shipper, Carrier		
Preconditions	Carrier has received the booking request (update). Booking request status: RECEIVED or PENDING CONFIRMATION or PENDING UPDATE.		
Postconditions	Booking request (update) rejection received by the shipper. Booking request status: REJECTED		
Flow	1. Carrier rejects the booking request. 2. If rejection is successful, shipper responds with a notice receipt.		
Exceptions	2a. Carrier is unable to reject the booking and an error message is returned. Booking request status: RECEIVED or PENDING CONFIRMATION.		

Table 6: Use Case definition UC 4

6.2 Activity Diagram

The purpose of the activity diagram is to capture dynamic behavior in the system as a message flow. Figure 8: Activity Diagram UC 4 describes the activity flows that the interface for Reject booking request (update) provides. The interface activity flow for 'Reject booking request (update)' can follow two paths: the success path or the exception path. The success path begins with the carrier rejecting the booking request (update). If the rejection is successful, the shipper responds

with a notice receipt, indicating that the rejection is received. If the rejection was not successful, the exception path is followed, in which an error message is returned to the carrier indicating that rejecting the booking request failed.

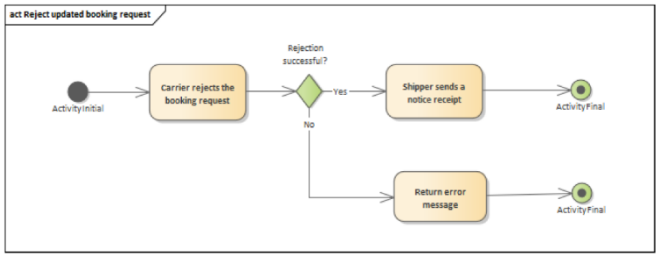

Figure 8: Activity Diagram UC 4

6.3 Input

To refer to the correct Booking Request, the < Carrier Booking Request Reference > is needed.

'Chapter 13. Data overview' contains the attributes that are relevant input for this Use Case.

6.4 Output

If the 'reject updated booking request (update)' was successful, the carrier will update the booking request status to REJECTED. The shipper will respond with a notice receipt, indicating that the Booking Request (update) rejection is received.

If the rejection is unsuccessful, the booking request status remains RECEIVED or PENDING CONFIRMATION.

7. Use Case 5: Confirm booking

7.1 Use Case Definition

This section describes the use case of 'Confirm booking' via an exemplified interaction between carrier and shipper. Figure 9: Use Case Diagram UC 5 supports this use case, displaying the interaction between the carrier and shipper.

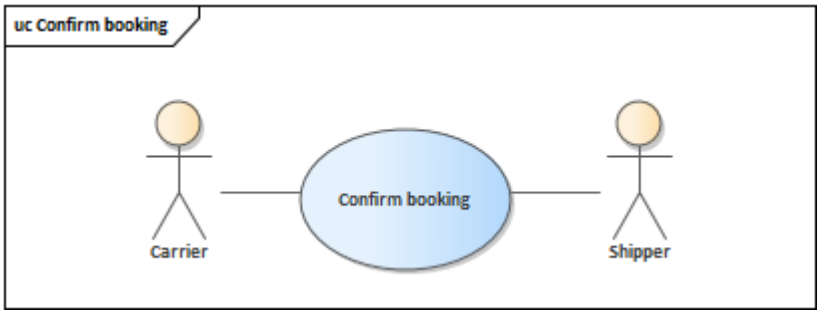

Figure 9: Use Case Diagram UC 5

Name of use case	**Confirm booking (carrier to shipper)**		
Created by	DCSA	Last updated by	DCSA P1
Date Created	9 October 2020	Last revision date	November 2021
Description	Carrier confirms the booking based on the booking request received from the shipper.		
Actors	Carrier, Shipper		
Preconditions	Booking request is complete and correct. Booking request status: RECEIVED or PENDING CONFIRMATION.		
Postconditions	Confirmed booking is received by the shipper. Booking status: CONFIRMED		
Flow	1. Carrier confirms the booking. 2. If confirmation is successfully received, shipper responds with a success message.		
Exceptions	1a. Carrier cannot confirm a booking and sends an error message. 2a. Carrier does not receive a success message from the shipper. Booking status: RECEIVED or PENDING CONFIRMATION.		

Table 7: Use Case definition UC 5

7.2 Activity Diagram

The purpose of the activity diagram is to capture dynamic behavior in the system as a message flow.

Figure 10: Activity Diagram UC 5 describes the activity flows that the interface for Confirming a booking provides. The interface activity flow for 'Booking Confirmation' can follow two paths: the success path or the exception path. The success path begins with a carrier confirming the booking. If confirmation is successful, the shipper responds with a success message, indicating that the Booking confirmation is received. If the confirmation was not successful, the exception path is followed.

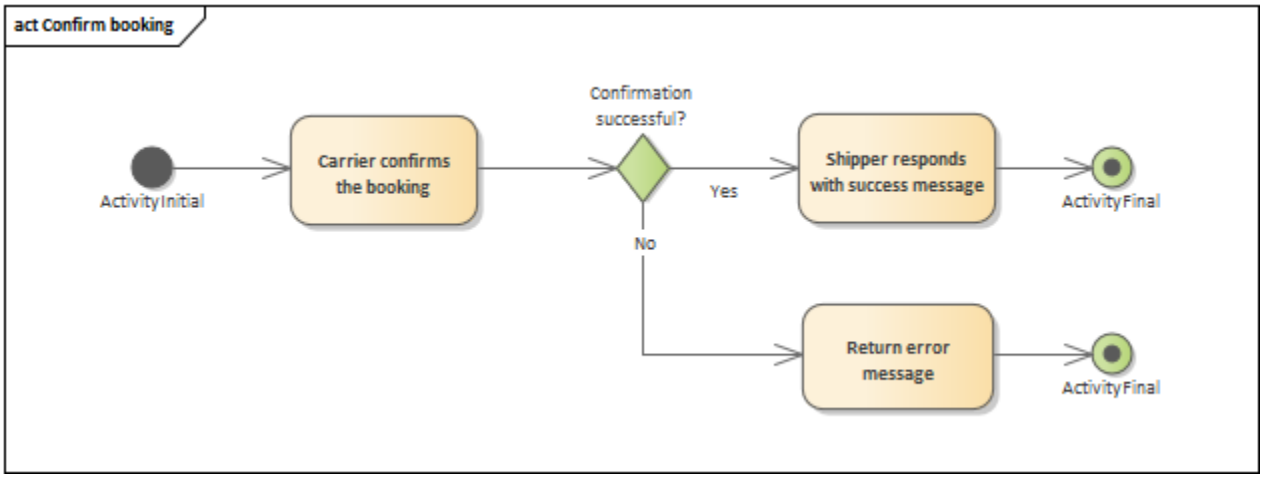

Figure 10: Activity Diagram UC 5

7.3 Input

'Chapter 13. Data overview' contains the attributes that are relevant input for this Use Case.

7.4 Output

If the booking confirmation was successful, the carrier will update the booking status to CONFIRMED. The shipper will respond with a success message, indicating that the booking confirmation is received.

If the booking confirmation was not successful, booking request status remains PENDING CONFIRMATION.

8. Use Case 6: Request to update booking

8.1 Use Case Definition

This section describes the use case of 'Request to update booking' via an exemplified interaction between carrier and shipper. Figure 11: Use Case Diagram UC 6Supports this use case, displaying the interaction between the carrier and shipper.

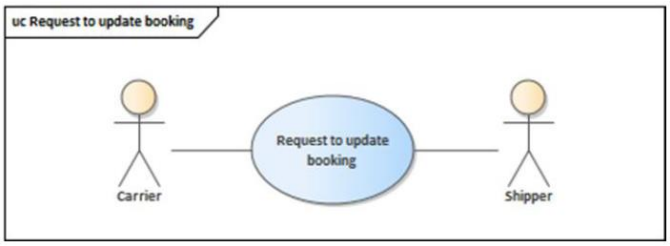

Figure 11: Use Case Diagram UC 6

Name of use case	**Request to update booking (carrier to shipper)**		
Created by	DCSA	Last updated by	DCSA P1
Date Created	February 2021	Last revision date	November 2021
Description	The carrier updates the booking. If the update was successful, the shipper will respond with a receipt message.		
Actors	Shipper, Carrier		
Preconditions	Booking is confirmed. Booking request status: PENDING UPDATE or PENDING CONFIRMATION or CONFIRMED.		
Postconditions	The booking update is successfully performed, and the shipper sends a receipt message to the carrier. Booking status: PENDING UPDATE.		
Flow	1. Carrier requests to update the booking. 2. If the request is successful, shipper responds with success message.		
Exceptions	2a. Carrier is unable to request updates to the booking and an error message is returned. Booking status: PENDING UPDATE.		

Table 8: Use Case definition UC 6

8.2 Activity Diagram

The purpose of the activity diagram is to capture dynamic behavior in the system as a message flow. Figure 12: Activity Diagram UC 6 describes the activity flows that the interface provides for requesting an updating to a booking. The interface activity flow for 'Request to update booking' can follow two paths: the success path or the exception path. The success path begins with a

carrier requesting to update a booking. If the request is successful, the shipper responds with a success message, indicating that the request has been received. If the request was not successful, the exception path is followed, in which an error message is returned to the carrier indicating that the receipt has failed.

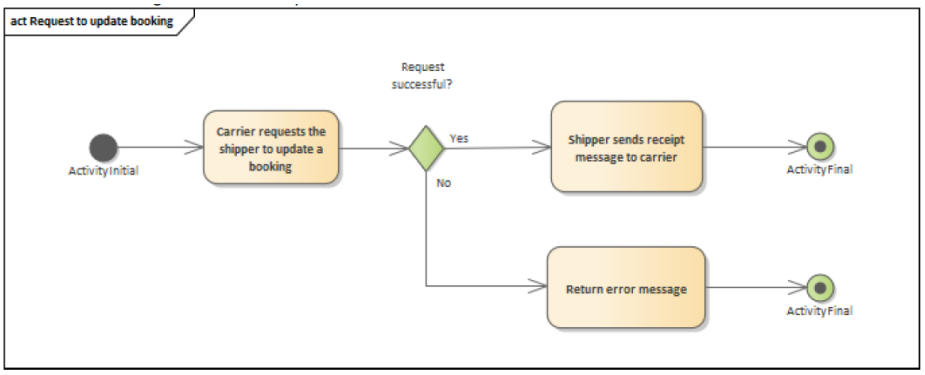

Figure 12: Activity Diagram UC 6

8.3 Input

A carrier can request a shipper to update all attributes from a booking request. Please refer to use case 1, for an overview of these attributes. In addition, there are attributes required to identify the specific booking.

'Chapter 13. Data overview' contains all attributes that are relevant input for this Use Case.

8.4 Output

If the request to update the Booking was successful, the shipper will respond with a success message, indicating that the update request is received. The booking status is now PENDING UPDATE.

If the request is unsuccessful, the carrier will receive an error message. The booking status remains PENDING UPDATE.

9. Use Case 7: Request amendments to booking.

9.1 Use Case Definition

This section describes the use case of 'Request amendments to booking' via an exemplified interaction between shipper and carrier. Figure 13: Use Case Diagram UC 7supports this use case, displaying the interaction between the shipper and carrier.

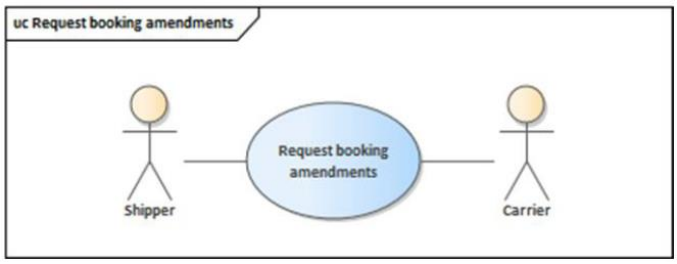

Figure 13: Use Case Diagram UC 7

Name of use case	**Request amendments to booking (shipper to carrier)**		
Created by	DCSA	Last updated by	DCSA P1
Date Created	February 2020	Last revision date	November 2021
Description	The shipper requests amendments to the Booking.		
Actors	Shipper, Carrier		
Preconditions	Booking is confirmed, pending update or pending confirmation. Booking status: CONFIRMED or PENDING UPDATE or PENDING CONFIRMATION.		
Postconditions	The Booking amendments are requested, and the shipper has received a success message from the carrier. Booking status: PENDING CONFIRMATION.		
Flow	1. Shipper requests amendments to the Booking. 2. Carrier accepts the booking amendments to be made. 3. If request is successful, carrier responds with a success message.		
Exceptions	1a. Shipper is not able to request amendments, shipper will receive an error message 2a. If the request is unsuccessful, carrier responds with an error message. Booking status: CONFIRMED or PENDING UPDATE or PENDING CONFIRMATION		

Table 9: Use Case definition UC 7

9.2 Activity Diagram

The purpose of the activity diagram is to capture dynamic behavior in the system as a message flow. Figure 14: Activity Diagram UC 7 describes the activity flows that the interface for requesting amendments to a booking provides. The interface activity flow for 'Request amendments to booking' can follow two paths: the success path or the exception path. The success path begins with a shipper requesting amendments to the booking. If the request is successful, the carrier responds with a success message, indicating that the request has been received. In case the request is not successful, the exception path is followed, in which an error message is returned to the shipper.

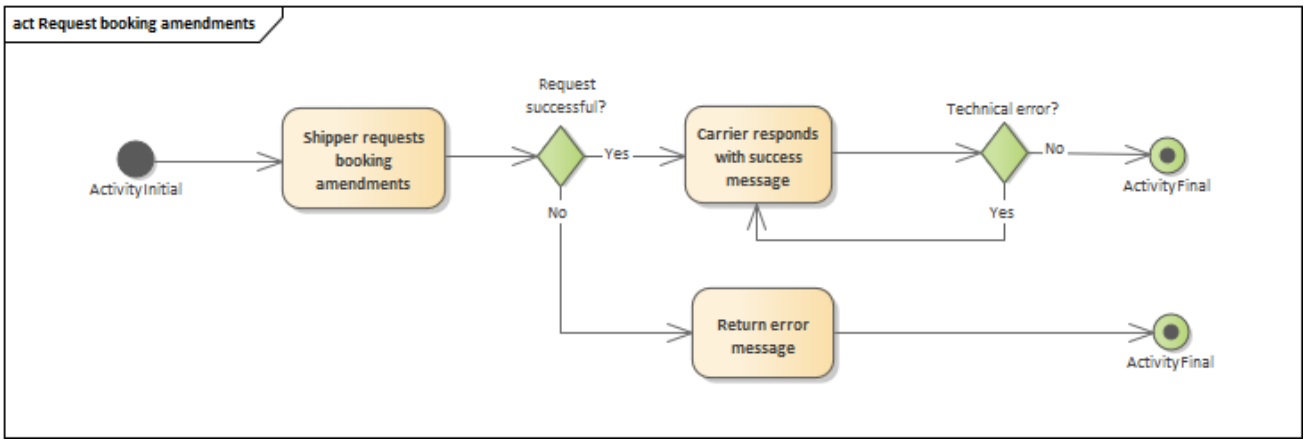

Figure 14: Activity Diagram UC 7

9.3 Input

Amendments to the Booking can be requested for all attributes. Please refer to Use case 1 for a detailed overview of each input attribute. In addition to the attributes mentioned in Use Case 1, the booking request ID and carrier booking reference are required.

'Chapter 13. Data overview' contains the attributes that are relevant input for this Use Case.

9.4 Output

If the request for 'amendments to booking' was successful, the carrier responds with a success message to the shipper. The booking status is now PENDING CONFIRMATION.

If the carrier does not accept the requested amendments, the booking shall be rejected through Use Case 4.

If the request was unsuccessful, carrier responds with an error message and booking status remains CONFIRMED or PENDING UPDATE.

10. Use Case 8: Confirm amendments to booking.

10.1 Use Case Definition

This section describes the use case of 'Confirm amendments to booking' via an exemplified interaction between shipper and carrier. Figure 15: Use Case Diagram UC 8 supports this use case, displaying the interaction between the shipper and carrier.

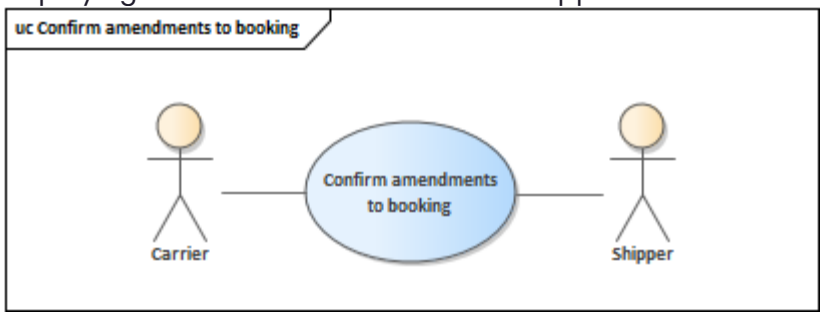

Figure 15: Use Case Diagram UC 8

Name of use case	**Confirm amendments to booking (carrier to shipper)**		
Created by	DCSA	Last updated by	DCSA P1
Date Created	February 2021	Last revision date	November 2021
Description	Carrier confirms the amendments can be made to a booking after amendments have been requested by the shipper. The shipper will receive a message that the booking is confirmed.		
Actors	Shipper, Carrier		
Preconditions	Booking amendments have been requested. Booking status: PENDING CONFIRMATION.		
Postconditions	Request for amendments has been approved by the carrier and the booking is confirmed. Booking status: CONFIRMED.		
Flow	1. Carrier reviews the requested amendments to the booking. 2. Carrier approves the requested amendments and sends an approval message to the shipper. The booking request will be re-confirmed. 3. In case the shipper can't be reached, we will re-try using an agreed re-try policy.		
Exceptions	2a. Carrier rejects the requested amendments and responds with a rejection message. Booking status is PENDING CONFIRMATION. 2b. In case the shipper can't be reached, we will re-try using an agreed re-try policy.		

Table 10: Use Case definition UC 8

10.2 Activity Diagram

The purpose of the activity diagram is to capture dynamic behavior in the system as a message flow. In case the approval or rejection message cannot be sent, an error message is returned. Figure 16: Activity Diagram UC 8 describes the activity flows that the interface for confirming amendments to a booking provides. The interface activity flow for 'Confirm amendments to booking' can follow two paths: the success path or the exception path. The success path begins with a carrier approving the amendments to a booking. If the approval is successful, the carrier responds with a success message, indicating that the booking amendments are approved and the booking is confirmed. If the amendments are not approved, the exception path is followed, in which the carrier rejects the amendments, and a rejection message is sent. In case the approval or rejection message cannot be sent, an error message is returned.

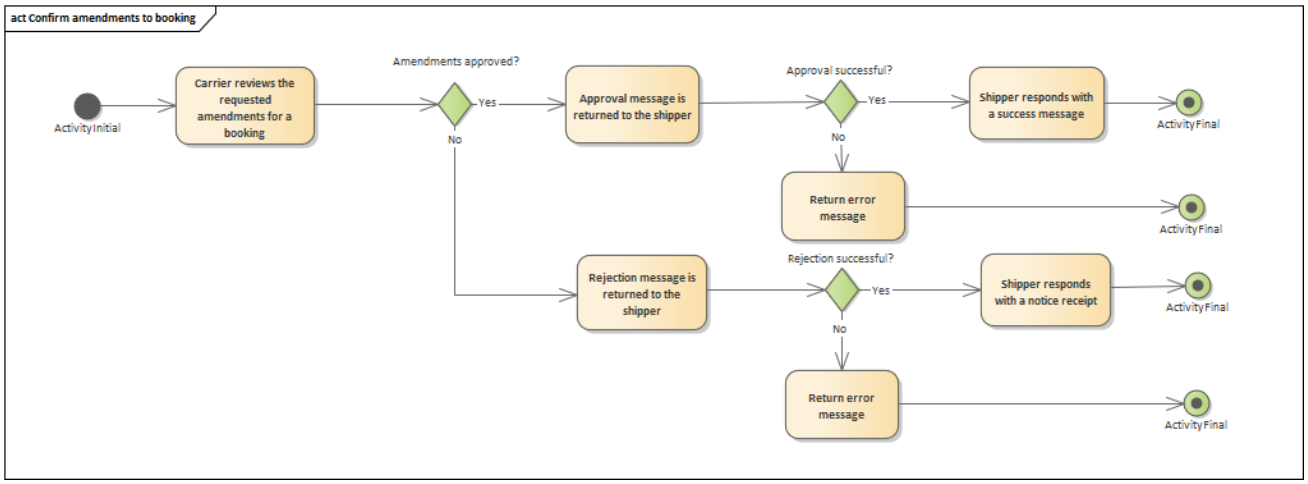

Figure 16: Activity Diagram UC 8

10.3 Input

With the approval or rejection of the amendments, the booking status will be updated. A reason for approval can be given, while a reason for rejection must be given.

'Chapter 13. Data overview' contains the attributes that are relevant input for this Use Case.

10.4 Output

If the carrier approves the booking amendments, the carrier sends a booking confirmation. The shipper will respond with a success message, indicating that the approval is received. The booking status is now CONFIRMED.

If the amendments are not approved, the shipper will receive a rejection message. The booking status remains PENDING CONFIRMATION.

11. Use Case 9: Cancel booking by shipper.

11.1 Use Case Definition

This section describes the use case of 'Cancel/Recall booking' via an exemplified interaction between shipper and carrier. Figure 17: Use Case Diagram UC 9 supports this use case, displaying the interaction between the shipper and carrier.

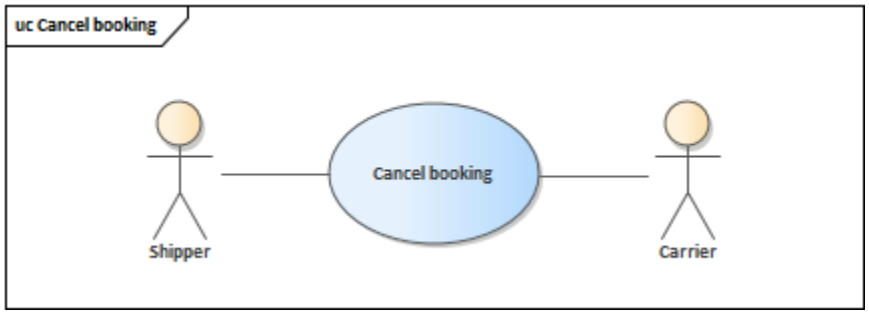

Figure 17: Use Case Diagram UC 9

Name of use case	**Cancel booking by shipper (shipper to carrier)**		
Created by	DCSA	Last updated by	DCSA P1
Date Created	February 2021	Last revision date	November 2021
Description	The shipper cancels the booking.		
Actors	Shipper, Carrier		
Preconditions	The booking is submitted to the carrier. Booking status: RECEIVED, CONFIRMED or PENDING UPDATE or PENDING CONFIRMATION.		
Postconditions	The booking is cancelled. Booking status: CANCELLED		
Flow	1. The shipper cancels the booking. 2. Carrier receives cancellation 3. Carrier accepts the cancellation and responds with a success message. The booking is now cancelled		
Exceptions	2a. The carrier does not receive the cancellation. An error message is returned. 3a. If the carrier does not accept the cancellation and responds with an error message. Booking status: RECEIVED, CONFIRMED or PENDING UPDATE or PENDING CONFIRMATION.		

Table 11: Use Case definition UC 9

11.2 Activity Diagram

The purpose of the activity diagram is to capture dynamic behavior in the system as a message flow. Figure 18: Activity Diagram UC 9 describes the activity flows that the interface for cancelling a booking provides. The interface activity flow for 'Cancel booking' can follow two paths: the success path or the exception path. The success path begins with a shipper cancelling a booking. If the carrier receives the cancellation, the carrier sends a success message to the shipper. The booking status is now changed to cancelled. If the cancellation is not successful, the exception path is followed, in which an error message is returned to the shipper.

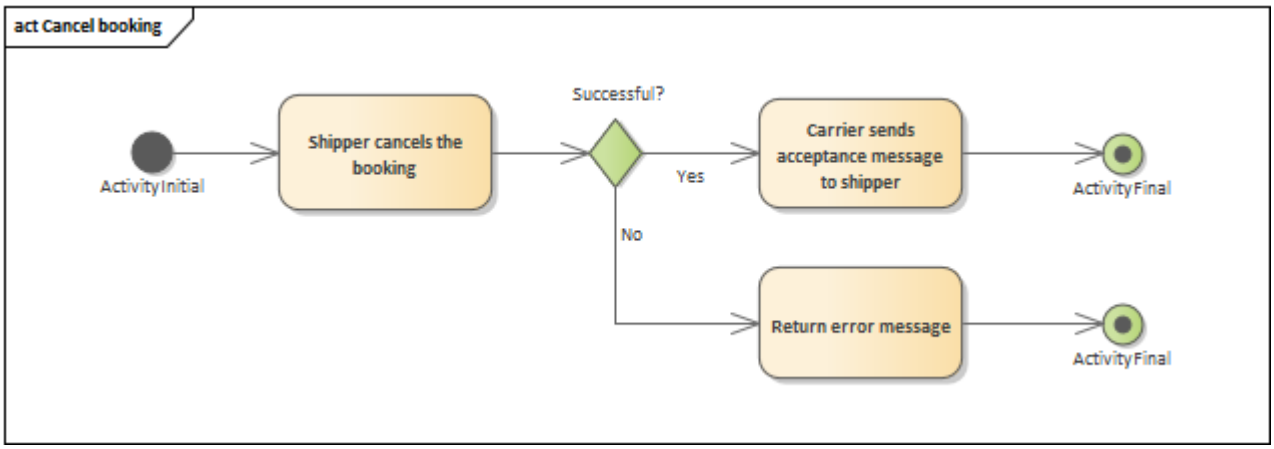

Figure 18: Activity Diagram UC 9

11.3 Input

With the cancellation of a booking, the document status will be updated. A reason for cancellation can be given.

'Chapter 13. Data overview' contains the attributes that are relevant input for this Use Case.

11.4 Output

The carrier will receive a cancellation message from the shipper, the booking status will be updated to CANCELLED. The carrier will respond with a success message that the cancellation is received.

If the request to cancel the booking is not successful (not received or not accepted by the carrier), the booking status remains RECEIVED, CONFIRMED or PENDING UPDATE. The carrier will respond with an error message.

12. Use Case 10: Cancel booking by carrier.

12.1 Use Case Definition

This section describes the use case of when a carrier declines a booking request from a shipper. Figure 19: Use Case Diagram UC 10 supports this use case, displaying the interaction between the carrier and shipper.

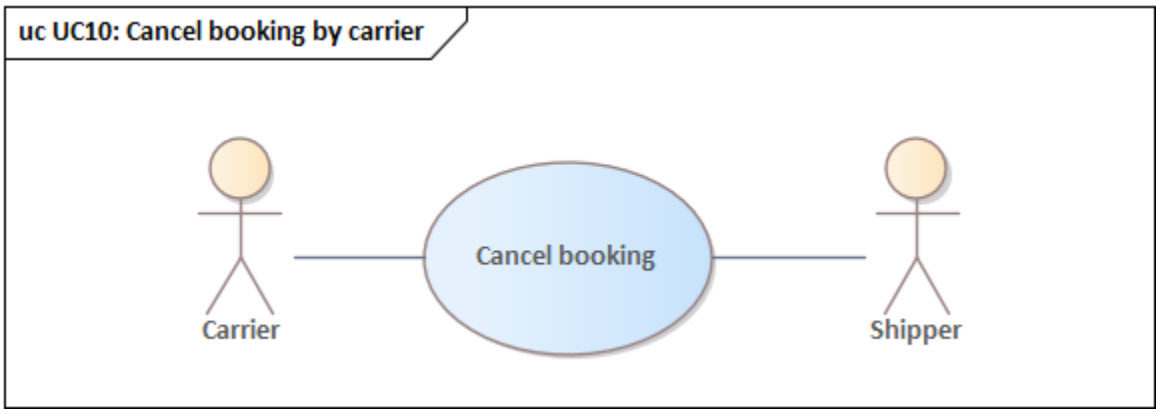

Figure 19: Use Case Diagram UC 10

Name of use case	**Cancel booking by carrier (carrier to shipper)**		
Created by	DCSA	Last updated by	DCSA P1
Date Created	November 2021	Last revision date	
Description	The carrier cancels the booking.		
Actors	Carrier, Shipper		
Preconditions	The booking is submitted to the carrier. Booking status: RECEIVED, CONFIRMED or PENDING UPDATE or PENDING CONFIRMATION.		
Postconditions	The booking is declined. Booking status: CANCELLED		
Flow	1. The carrier cancels the booking. 2. Shipper receives cancellation 3. Shipper accepts the cancellation and responds with a success message. The booking is now cancelled		
Exceptions	2a. The shipper does not receive the cancellation. An error message is returned to the carrier. Booking status: CANCELLED.		

Table 12: Use Case definition UC 10

12.2 Activity Diagram

The purpose of the activity diagram is to capture dynamic behavior in the system as a message flow. Figure 20: Activity Diagram UC 10 describes the activity flows that the interface for cancelling a booking provides. The interface activity flow for 'Cancel booking by carrier' can follow two paths: the success path or the exception path. The success path begins with a carrier cancelling a booking. If the shipper receives the cancellation, the shipper sends a success message to the carrier. The booking status is now changed to cancelled. If the cancel is not successful, the exception path is followed, in which an error message is returned to the carrier.

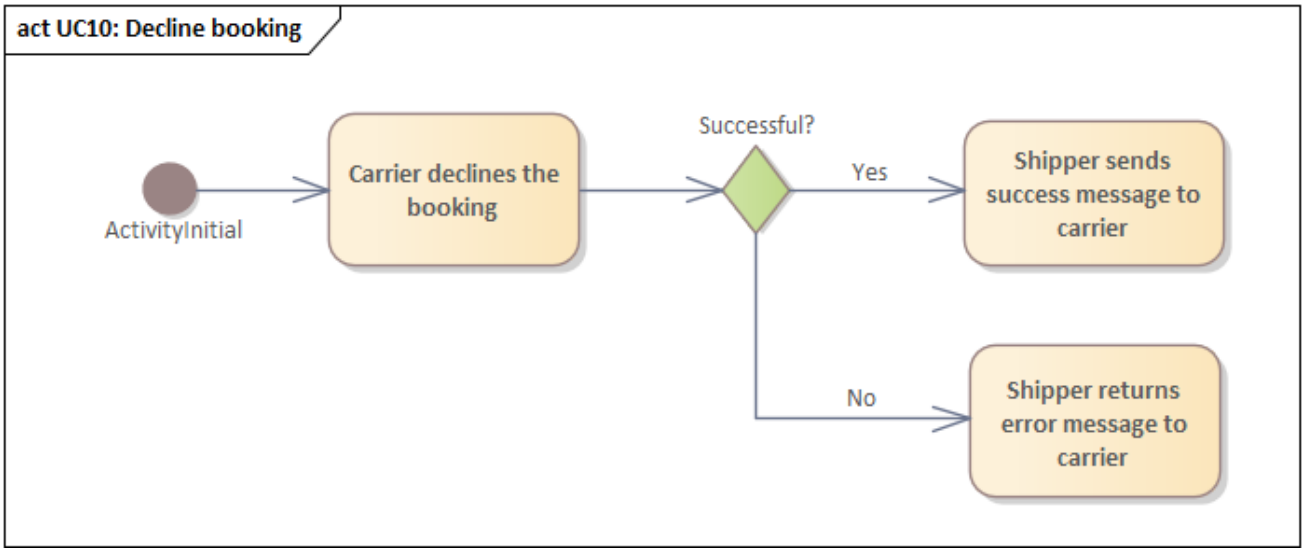

Figure 20: Activity Diagram UC 10

12.3 Input

With the cancellation of a booking, the document status will be updated. A reason for cancellation must be given. 'Chapter 13. Data overview' contains the attributes that are relevant input for this Use Case.

12.4 Output

The shipper will receive a cancellation message from the carrier, the booking status will be updated to CANCELLED. The shipper will respond with a success message that the cancellation is received.

If the request to decline the booking message is not successful, the booking status will still be CANCELLED as the carrier sets the booking status.

13. Data overview

R = The field must contain a value C = Whether the field must contain a value depends on a condition O = The field may contain a value or not					Post Booking request	Request missing information to booking request	Post updated booking request	Reject booking request	Confirm booking	Request to update booking	Request amendments to booking	Confirm amendments to booking	Cancel booking	Decline Booking
Attribute	**Type**	**Description**	**Example**	**Reference data owner**	**UC1**	**UC2**	**UC3**	**UC4**	**UC5**	**UC6**	**UC7**	**UC8**	**UC9**	**UC10**
Carrier Booking Reference	Text (35)	The associated booking number provided by the carrier.	*ABC709951*	Carrier					R	R	R	R	R	R
Carrier Booking Request Reference	Text (100)	The associated booking number provided by the carrier to the booking request.	*DEF648593*	Carrier		R	R	R	R				R	R
Reason*	Text(250)	Text field as part of the request message, describing the reasons for requesting the update, including their 'category' (Missing mandatory data (attribute))	*NA*	NA		R		R		R	R	C	O	R
Booking status	Text(4)	The current status of the booking	*PENU*	DCSA		R		R		R		R	R	R
Attributes related to <Booking>														
Receipt Type at Origin	Text(3)	Indicates the type of service offered at Origin. Options are defined in the Receipt/Delivery entity.	*CY*	DCSA	R		R		R		O			
Delivery Type at Destination	Text(3)	Indicates the type of service offered at Destination. Options are defined in the Receipt/Delivery entity.	*CY*	DCSA	R		R		R		O			
Cargo Movement Type at Origin	Text(3)	Refers to the shipment term at the loading of the cargo into the container. Options are defined in the Cargo Movement Type entity.	*FCL*	DCSA	R		R		R		O			
Cargo Movement Type at Destination	Text(3)	Refers to the shipment term at the unloading of the cargo out of the container. Options are defined in the Cargo Movement Type entity.	*FCL*	DCSA	R		R		R		O			
Booking Request DateTime	DateTime	The date and time of the booking request.	*02-02-2021, 15:00*	ISO6801	R		R		R		O			

R = The field must contain a value
C = Whether the field must contain a value depends on a condition
O = The field may contain a value or not

Attribute	Type	Description	Example	Reference data owner	UC1 Post Booking request	UC2 Request missing information to booking request	UC3 Post updated booking request	UC4 Reject booking request	UC5 Confirm booking	UC6 Request to update booking	UC7 Request amendments to booking	UC8 Confirm amendments to booking	UC9 Cancel booking	UC10 Decline Booking
Service Contract Reference	Text (30)	Reference number for agreement between shipper and carrier through which optionally includes a certain minimum quantity of cargo that the shipper commits to over a fixed period, and the carrier commits to a certain rate or rate schedule.	*NA*	Carrier	O		O		O		O			
Payment term Code	Text (3)	Indicates whether freight & charges are due for payment before the shipment is affected, practically before the transport document is released to shipper (Prepaid) or before the shipment is finalized meaning cargo released to consignee (Collect).	*PRE*	NA	O		O		O	O	O			
Commodities	Array	Type of goods in the booking, defined by its commodity type, HS code and Cargo Gross Weight. Multiple commodity types can be included in one booking hence this is an array			R		R		R		O			

Attribute	Type	Description	Example	Reference data owner	UC1 Post Booking request	UC2 Request missing information to booking request	UC3 Post updated booking request	UC4 Reject booking request	UC5 Confirm booking	UC6 Request to update booking	UC7 Request amendments to booking	UC8 Confirm amendments to booking	UC9 Cancel booking	UC10 Decline Booking
Commodity type	Text (550)	High-level description of goods to be shipped which allow the carrier to confirm acceptance and commercial terms. To be replaced by "description of goods" upon submission of shipping instruction.		NA	R		R		R		O			
HS code	Text (10)	HS code classifying the commodity for this booking		WCO	O		O		O	O	O			
Cargo gross weight	Number	The estimated grand total weight of the cargo and weight per container(s) including packaging items being carried, which can be expressed in imperial or metric terms, as provided by the shipper. Excludes the tare weight of the container(s).		NA	R		R		R	R	O			
Cargo Gross Weight Unit	Text (3)	The unit of measure of the cargo gross weight; it can be in either Kilograms or Pounds as provided by the shipper.	*KGM*	UNECE	R		R		R	R	O			
Cargo gross volume	Number	The estimated grand total volume of the cargo.	*10*	NA	O		O		O	O	O			
Cargo gross volume unit	Text (3)	The unit of measure, which can be expressed in either MTQ or FTQ as	*MTQ*	UNECE	O		O		O	O	O			

R = The field must contain a value
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Attribute	Type	Description			Example	Reference data owner	UC1 Post Booking request	UC2 Request missing information to booking request	UC3 Post updated booking request	UC4 Reject booking request	UC5 Confirm booking	UC6 Request to update booking	UC7 Request amendments to booking	UC8 Confirm amendments to booking	UC9 Cancel booking	UC10 Decline Booking
				provided by the shipper. Conditional: If the volume is populated then volume unit is required.												
		Number of Packages	Number	Specifies the number of packages associated with this commodity	*18*	NA	O		O		O	O	O			
		Export License Issue date	Date	Issue date of the export license applicable to the booking. Mandatory to provide in booking request for specific commodities			C		C		C	O	O			
		Export license expiry date	Date	Expiry date of the export license applicable to the booking. Mandatory to provide in booking request for specific commodities.			C		C		C	O	O			
		Commodity Requested Equipment Link	Text (100)	Link to be used when connecting this commodity to a Requested Equipment	001	NA	O		O		O	O	O			
Is Partial load allowed	Boolean	Indication whether the shipper agrees to load part of the shipment in case where not all of the cargo is delivered within cut-off.			*TRUE*	NA	R		O		O	O	O			
Is Export declaration required	Boolean	Information provided by the shipper whether an export declaration is required for this particular shipment/commodity/destination.			*TRUE*	NA	R		O		R		O			
Export declaration reference	Text (35)	A government document permitting designated goods to be shipped out of the country. Reference number assigned by an issuing authority to an Export License. The export license must be valid at time of departure. Required if Export declaration required is 'True'.			*NA*	NA	C		C		C	O	O			
Is Import license required	Boolean	Information provided by the shipper whether an import permit or license is required for this particular shipment/commodity/destination.			*TRUE*	NA	R		O		R		O			

R = The field must contain a value C = Whether the field must contain a value depends on a condition O = The field may contain a value or not					Post Booking request	Request missing information to booking request	Post updated booking request	Reject booking request	Confirm booking	Request to update booking	Request amendments to booking	Confirm amendments to booking	Cancel booking	Decline Booking
Attribute	**Type**	**Description**	**Example**	**Reference data owner**	**UC1**	**UC2**	**UC3**	**UC4**	**UC5**	**UC6**	**UC7**	**UC8**	**UC9**	**UC10**
Import license reference	Text (35)	A certificate, issued by countries exercising import controls, that permits importation of the articles stated in the license. Reference number assigned by an issuing authority to an Import License. The import license number must be valid at time of arrival. Required if import license required is 'True'.	*NA*	NA	C		C		C	O	O			
Submission date and time	DateTime	Date and time of submitting the relevant document and attributes More specifically: Last time the booking has been updated	*02-02-2021, 15:00*	ISO6801	R		R		R		O			
Is AMS/ACI Filing required	Boolean	Customs filing for US (AMS) or Canadian (ACI) customs	*TRUE*	NA					C	O				
Is customs filing required by Shipper	Boolean	Indicates whether the shipper will perform the AMS/ACI filing directly or not. Mandatory if AMS/ACI filing is required	*TRUE*	NA	C		C		C	O	O			
Contract /quotation reference	Text (35)	Information provided by the shipper to identify whether pricing for the shipment has been agreed via a contract or a quotation reference. Mandatory if service contract (owner) is not provided.	*NA*	Carrier	C		C		C	O	O			
Expected departure date	Date	The date when the shipment is expected to be loaded on board a vessel as provided by the shipper or its agent. If vessel/voyage or expected date of arrival is not provided, this is mandatory	*02/02/2021*	ISO6801	C		C		C	O	O			
Expected arrival at Place Of Delivery – start date	Date	The dates (provided as a range) for when the shipment is expected to arrive at Place Of Delivery – start of the range. If vessel/voyage or expected departure date or pick-up date at place of receipt is not provided, this field is mandatory	*02/02/2021*		C		C		C	O	O			
Expected arrival at Place Of	Date	The dates (provided as a range) for when the shipment is expected to arrive at Place Of Delivery – end of the range If vessel/voyage or expected departure date or pick-up date at place of receipt is not provided, this field is mandatory			C		C		C	O	O			

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C = Whether the field must contain a value depends on a condition
O = The field may contain a value or not

Attribute	Type	Description	Example	Reference data owner	UC1 Post Booking request	UC2 Request missing information to booking request	UC3 Post updated booking request	UC4 Reject booking request	UC5 Confirm booking	UC6 Request to update booking	UC7 Request amendments to booking	UC8 Confirm amendments to booking	UC9 Cancel booking	UC10 Decline Booking
Delivery – end date														
Transport document type code	Text (3)	Specifies the type of the associated Transport Document (Bill of Lading or Sea Waybill).	*SWB*	DCSA	O		O		O	O	O			
Transport Document Reference	Text (20)	The unique identifier of the transport document that the booking concerns. Only applicable if the TD is remote printed at a customer location.	*NA*	Carrier	C		C		C	O	O			
Booking channel reference	Text (20)	Identification number provided by the platform/channel used for booking request/confirmation, ex: Intra booking reference, or Infor Nexus, other. Conditional on booking channel being used	*NA*	NA	C		C		C	O	O			
Incoterms	Text (3)	Transport obligations, costs and risks as agreed between buyer and seller.	*DAP*	ICC	O		O		O	O	O			
Invoice Payable At	Object	OPTIONAL. Location where payment by the customer will take place. Usually refers to Basic Ocean Freight alone. This is an object of the attributes below. Invoice Payable At supports 2 location-interfaces: • UN Location Code interface • Address interface Condition: At least sufficient attributes must be populated to identify a location.			O		O		O	O	O			
	Attribute	**Type**	**Description**											
	Location name	Text (100)	Name of the location.			C		C		C	C	C			
	UN location code	Text (5)	The UN Location code specifying where the place is located			C		C		C	C	C			
	Street	Text (100)	The name of the street of the party's address			C		C		C	C	C			
	Street number	Text (50)	The number of the street of the party's address			C		C		C	C	C			

R = The field must contain a value
C = Whether the field must contain a value depends on a condition
O = The field may contain a value or not

Attribute	Type	Description			Example	Reference data owner	UC1 Post Booking request	UC2 Request missing information to booking request	UC3 Post updated booking request	UC4 Reject booking request	UC5 Confirm booking	UC6 Request to update booking	UC7 Request amendments to booking	UC8 Confirm amendments to booking	UC9 Cancel booking	UC10 Decline Booking
		Floor	Text (50)	The floor of the party's street number			C		C		C	C	C			
		Post Code	Text (10)	The postal code of the party's address			C		C		C	C	C			
		City name	Text (65)	The city name of the party's address			C		C		C	C	C			
		State/Region	Text (65)	The state/region of the party's address			C		C		C	C	C			
		Country	Text (75)	The country of the party's address			C		C		C	C	C			
Value added service requests	Array	Request for value added service. This will be provided as a list: Smart containers, Cargo insurance, Smart IoT devices, Customs declaration, shipping guarantee, upfront payment					O		O		O	O	O			
		Attribute	**Type**	**Description**												
		Value added service code	Text (5)	Code of the value added service			O		O		O	O	O			
Communication channel Code	Text (2)	Specifying which communication channel is to be used for this booking e.g. EM (email), AO (JSON Uniform Resource Location – "API"), EI (EDI)			*EM*	NA	R		R		R		O			
Is Equipment substitution allowed	Boolean	Indicates if an alternate equipment type can be provided by the carrier.			*TRUE*	Shipper	R		O		R		O			
Confirmation DateTime	DateTime	Date and time of booking confirmation			*02-02-2021, 15:00*	ISO6801					R					
Vessel	Object	Vessels related to this booking request.					O		O		O		O			
		Attribute	**Type**	**Description**												
		Vessel name	Text (35)	Name of a vessel for this booking request.	King of the Seas		O		O		R		O			

R = The field must contain a value
C = Whether the field must contain a value depends on a condition
O = The field may contain a value or not

Attribute	Type	Description	Example	Reference data owner	UC1 Post Booking request	UC2 Request missing information to booking request	UC3 Post updated booking request	UC4 Reject booking request	UC5 Confirm booking	UC6 Request to update booking	UC7 Request amendments to booking	UC8 Confirm amendments to booking	UC9 Cancel booking	UC10 Decline Booking
		Vessel IMO Number — Text (7) — The vessel carrying out the transport identified by its IMO number.	9321483		O		O		R		O			
Carrier Export Voyage number	Text (50)	The vessel operator-specific identifier of the Voyage for this booking request. Conditional on expected departure date and/or expected arrival date being blank.			C		C		R		O			
Carrier Service Code	Text (5)	The carrier specific code of the service for which the schedule details are published.	FE1	Carrier	O		O		O		O			
Carrier Service Name	Text (50)	The name of a service as specified by the carrier.	Liberty Bridge	Carrier	O		O		O		O			
Universal Export Voyage Reference	Text (5)	An agreed reference to be used between Partners for a voyage			O		O		O		O			
Universal Service Reference	Text (8)	A global unique service reference, as per DCSA standards, agreed by VSA partners for the service.			O		O		O		O			
Pre-carriage under shipper's responsibility	Text (50)	Mode of transportation for pre-carriage (e.g., truck, barge, rail), under shipper's responsibility			O		O		O	O	O			
Declared Value	Number	The value of the cargo that the shipper declares in order to avoid the carrier's limitation of liability and "Ad Valorem" freight, i.e., freight which is calculated based on the value of the goods declared by the shipper. Condition: If customers want the value to show, evidence is required, and customers need to approve additional insurance fee charge from the carrier (very exceptional).	1012.12	NA	O		O		O	O	O			
Declared Value Currency Code	Text (3)	The currency used for the declared value, using the 3-character code defined by ISO 4217.	EUR	ISO 4217	O		O		O	O	O			
Transports	Array	The transport plan is an object that reflects the transport legs within a transport plan.			R		O							

R = The field must contain a value
C = Whether the field must contain a value depends on a condition
O = The field may contain a value or not

Attribute	Type	Description			Example	Reference data owner	UC1 Post Booking request	UC2 Request missing information to booking request	UC3 Post updated booking request	UC4 Reject booking request	UC5 Confirm booking	UC6 Request to update booking	UC7 Request amendments to booking	UC8 Confirm amendments to booking	UC9 Cancel booking	UC10 Decline Booking
		Attribute	**Type**	**Description**												
		Transport plan stage	Text (3)	Code qualifying a specific stage of transport e.g. pre-carriage, main carriage transport or on-carriage transport	*PRC*	DCSA					R		O			
		Transport plan Stage sequence number	Number	Sequence number of the transport plan stage	5	n/a					R		O			
		Load Location	Location object	Location where the equipment is loaded	NLRTM	n/a					R		O			
		Discharge Location	Location object	Location where the equipment is discharged	DEDUS	n/a					R		O			
		Carrier Voyage Number	Text (50)	A carrier specific voyage identifier.	21035	Carrier					O		O			
		Vessel Name	Text (35)	The name of the first sea going Vessel on board which the cargo is loaded or intended to be loaded	King of the Seas	Carrier					O		O			
		Vessel IMO Number	Text (7)	The unique reference for a registered Vessel. The reference is the International Maritime Organisation (IMO) number, also sometimes known as the Lloyd's register code, which does not change during the lifetime of the vessel.	9321483	IMO					O		O			
		Planned Departure Date	Date	The date of departure from place of receipt	*02/02/2021*	ISO6801					R		O			
		Planned Arrival Date	Date	The date of arrival at place of destination	*05/02/2021*	ISO6801					R		O			
		Mode of transport	Text	Specifies the transport mode for the logistic transport movement	VESSEL	DCSA					O		O			
		Is under shipper's	Boolean	Indicates whether pre-carriage is done under shipper's responsibility	False	n/a					O		O			

R = The field must contain a value C = Whether the field must contain a value depends on a condition O = The field may contain a value or not							Post Booking request	Request missing information to booking request	Post updated booking request	Reject booking request	Confirm booking	Request to update booking	Request amendments to booking	Confirm amendments to booking	Cancel booking	Decline Booking
Attribute	**Type**	**Description**			**Example**	**Reference data owner**	**UC1**	**UC2**	**UC3**	**UC4**	**UC5**	**UC6**	**UC7**	**UC8**	**UC9**	**UC10**
		responsibility														
Place of B/L Issue	Object	Place where the original transport document (Bill of Lading) will be issued. Place of B/L Issue is an object of the attributes below. Place of B/L Issue supports 2 location-interfaces: • UN Location Code interface • Address interface Condition: At least sufficient attributes must be populated to identify a location.					O		O		O	O	O			
		Location name	Text (100)	Name of the location.			C		C		C	C	C			
		UN location code	Text (5)	The UN Location code specifying where the place is located.			C		C		C	C	C			
		Street	Text (100)	The name of the street of the party's address			C		C		C	C	C			
		Street number	Text (50)	The number of the street of the party's address			C		C		C	C	C			
		Floor	Text (50)	The floor of the party's street number			C		C		C	C	C			
		Post Code	Text (10)	The postal code of the party's address			C		C		C	C	C			
		City	Text (65)	The city name of the party's address			C		C		C	C	C			
		State/Region	Text (65)	The state/region of the party's address			C		C		C	C	C			
		Country	Text (75)	The country of the party's address			C		C		C	C	C			
Attributes related to an array of <References>																
Reference Type	Text (3)	The reference type codes defined by DCSA, which can be one of the following values: FF, SI, PO, CR, AAO, BID, ECR, CSI, BPR, EQ, RUC, DUE, CER, AES. For instance, the Customer Shipment ID is provided using the SI code			*FF*	DCSA	O		O		C		O			
Reference Value	Text (100)	The actual value of the reference.			*NA*	NA	O		O		C		O			

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Attribute	Type	Description	Example	Reference data owner	Post Booking request UC1	Request missing information to booking request UC2	Post updated booking request UC3	Reject booking request UC4	Confirm booking UC5	Request to update booking UC6	Request amendments to booking UC7	Confirm amendments to booking UC8	Cancel booking UC9	Decline Booking UC10
Attributes related to an array of <Requested Equipment>														
Requested ISO Equipment Code	Text (4)	Requested Equipment(s)for this booking.			R		R		R		O			
Container Tare Weight	Number	Tare weight of the container as registered on the CSC plate of the physical container unit. Only applicable for Shipper Owned Containers (SOC)			C		C		C		C			
Container Tare Weight Unit	Text (3)	The unit of measure of the tare weight; it can be in either Kilograms or Pounds as provided by the shipper. Condition: Only needed for SoC (Shipper Owned Containers)			C		C		C		C			
Requested equipment units	Number	Number of requested equipment units.	*100*	Shipper	R		R		R		O			
Equipment References	Array	List of equipment references provided by the shipper if know at the time of Booking			O		O		O		O			
		Attribute / **Type** / **Description**												
		Equipment Reference / Text (15) / The unique identifier for the equipment, which should follow the BIC ISO Container Identification Number where possible.	*APZU4812090*	ISO Container ID	R		R		R		R			
		Commodity Requested Equipment Link / Text (100) / Link to be used when connecting this commodity to a Requested Equipment	001	NA	O		O		O	O	O			
Is Shipper Owned	Boolean	Indicator whether the shipper is providing own container containers.	*TRUE*	Shipper	R		R		R		O			
Attributes related to an array of <Document Parties>														
Party Function	Text (3)	The name of the specific role, which can be one of the following values: OS, CN, COW, COX, N1, N2, NI, DDR, DDS, BA, HE, SCO, MS.			R		R		R		O			
		Function / **Condition**												

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Attribute	Type	Description		Example	Reference data owner	UC1 Post Booking request	UC2 Request missing information to booking request	UC3 Post updated booking request	UC4 Reject booking request	UC5 Confirm booking	UC6 Request to update booking	UC7 Request amendments to booking	UC8 Confirm amendments to booking	UC9 Cancel booking	UC10 Decline Booking
		OS	Can be left blank until submission of SI if booking party (Shipper forwarding agent) is provided at time of booking request			C		C		C	C	C			
		DDS	Optional			O		O		O	O	O			
		CN	Optional			O		O		O	O	O			
		COW	Optional			O		O		O	O	O			
		COX	Optional			O		O		O	O	O			
		N1	Only when a notify party is provided			C		C		C	C	C			
		N2	Only when a notify party is provided			C		C		C	C	C			
		NI	Only when a notify party is provided			C		C		C	C	C			
		DDR	Optional			O		O		O	O	O			
		BA	Can be left blank if shipper or shipper forwarding agent is provided			C		C		C	C	C			
		SCO	If a service contract number is provided, this field is mandatory			C		C		C	C	C			
		HE	Optional			O		O		O	O	O			
		MS	Optional			O		O		O	O	O			
Party	Object	'Party' is an object of the attributes below. Conditional on submitting either the unique party identifier or the party object.				C		C		C	C	O			
		Attribute	**Type**	**Description**											
		Party Name	Text (100)	Name of the party		R		R		R	R	R			
		Tax Reference 1	Text (20)	The identifying number of the consignee or shipper (Individual or entity) used for tax purposes		O		O		O	O	O			

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Attribute	Type	Description				Example	Reference data owner	UC1 Post Booking request	UC2 Request missing information to booking request	UC3 Post updated booking request	UC4 Reject booking request	UC5 Confirm booking	UC6 Request to update booking	UC7 Request amendments to booking	UC8 Confirm amendments to booking	UC9 Cancel booking	UC10 Decline Booking
		Public Key	Text (500)	The public key used for a digital signature				O		O		O	O	O			
		Street	Text (100)	The name of the street of the party's address				O		O		O	O	O			
		Street number	Text (50)	The number of the street of the party's address				O		O		O	O	O			
		Floor	Text (50)	The floor of the party's street number				O		O		O	O	O			
		Post Code	Text (10)	The postal code of the party's address				O		O		O	O	O			
		City	Text (65)	The city name of the party's address				O		O		O	O	O			
		State/Region	Text (65)	The state/region of the party's address				O		O		O	O	O			
		Country	Text (75)	The country of the party's address				O		O		O	O	O			
		Tax Reference 2	Text (20)	The 2nd identifying number of the consignee or shipper (Individual or entity) used for tax purposes				O		O		O	O	O			
		Party identifying codes	Array	**Attribute**	**Type**												
				Code	Text (100)			O		O		O	O	O			
				Code list provider	Text (3)			O		O		O	O	O			
				Code List Name	Text (100)			O		O		O	O	O			
Displayed Address	Array	The address of the part to be displayed on the transport document. This object is required if the B/L needs to be switched to paper later in the process. It is only allowed to provide 5 lines Condition: Required if the B/L needs to be switched to paper later in the process						C		C		C	C	C			
		Attribute	**Type**	**Description**													

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Attribute	Type	Description			Example	Reference data owner	UC1 Post Booking request	UC2 Request missing information to booking request	UC3 Post updated booking request	UC4 Reject booking request	UC5 Confirm booking	UC6 Request to update booking	UC7 Request amendments to booking	UC8 Confirm amendments to booking	UC9 Cancel booking	UC10 Decline Booking
		Address line	Text (35)	Address of the party			R		R		R	R	R			
Party Contact Details	Array	OPTIONAL The contact details of the person to contact in relation to the Transport Document (changes, notifications etc.) is an object of the attributes below.					O		O		O	O	O			
		Attribute	**Type**	**Description**												
		Name	Text (100)	Name of the contact			R		O		R		O			
		Email	Text (100)	Email of the contact			C		C		C	C	C			
		Phone	Text (30)	Phone number of the contact			C		C		C	C	C			
		URL	Text (100)	URL of the contact			C		C		C	C	C			
Is To Be Notified	Boolean	Used to decide whether the party will be notified of the arrival of the cargo					R		R		R		O			
Attributes related to an array of <Shipment cut-off times>																
Cut-off datetime code	Text (3)	Code for the cut-off time									R					
		Function	**Type code**	**Condition**												
		Documentation cut-off	DCO	Document cut-off time for SI							R					
		VGM cut-off	VCO	VGM cut-off time for submission							R					
		FCL delivery cut-off	FCO	Latest deadline for delivering containers at the terminal gate							R					
		LCL delivery cut-off	LCO	Latest deadline for delivering LCL cargo at the container freight station							R					
		Empty container	ECP	Time and date for shipper to pick-up empty container(s)							O					

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Attribute	Type	Description			Example	Reference data owner	UC1 Post Booking request	UC2 Request missing information to booking request	UC3 Post updated booking request	UC4 Reject booking request	UC5 Confirm booking	UC6 Request to update booking	UC7 Request amendments to booking	UC8 Confirm amendments to booking	UC9 Cancel booking	UC10 Decline Booking
		pick-up date and time														
		Earliest full-container delivery date	EFC	Earliest date where containers can be delivered at the terminal gate also called gate-opening							O					
		AMS Filing due date	AFD	Date when AMS filing should latest be done in the last port of call before visiting the first US port							O					
Cut-off datetime	DateTime	Actual cut-off time.			*02-02-2022, 15:00*	ISO 8601					R					
Attributes related to an array of <Shipment location>																
Location Type	Text (3)	DCSA-defined code for shipment locations which can be one of the following values:					R				R	R	R			
		Function	**Type code**	**Condition**												
		Place of Receipt	PRE				R				R	R	R			
		Port of Loading	POL	If known by the shipper or booking party. Optional if the place of receipt is a port.			C		C		C	C	C			
		Port of Discharge	POD	If known by the shipper or booking party. Optional if place of delivery is a port.			C		C		C	C	C			
		Place of Delivery	PDE				R				R	R	R			
		Pre-carriage from	PCF				O		O		O	O	O			
		Pre-carriage under shipper's responsibility	PSR	When onward transport is done by customer			C		C		C	C	C			

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Attribute	**Type**	**Description**			**Example**	**Reference data owner**	**UC1**	**UC2**	**UC3**	**UC4**	**UC5**	**UC6**	**UC7**	**UC8**	**UC9**	**UC10**
		Onward Inland Routing	OIR				O		O		O	O	O			
		Origin of Goods	ORI	The country in which the goods have been produced or manufactured, according to criteria laid down for the application of the Customs tariff or quantitative restrictions, or any measure related to trade.			O		O		O	O	O			
		Container intermediate export stop-off location	IEL	Conditional on place of receipt being a customer location (carrier haulage)			C		C		C	C	C			
		Prohibited transshipment port.	PTP	Place/location where a transshipment from a means of transport to another means of transport is not authorized.			O		O		O	O	O			
		Requested transshipment port.	RTP	Place where goods are to be or have been transferred from one means of transport to another during the course of one transport operation.			O		O		O	O	O			
		Full container drop-off location	FCD				O		O		O	O	O			
		Depot release location.	DRL	The location of the depot from which the empty container is released.			O		O		O	O	O			
Event date	DateTime	A date and time when the event is taking place at the location.			*02/02/2021, 15:00*	ISO6801	C		C		C	C	C			
Location	Object	'Location' is an object of the attributes below. Location supports 3 location-interfaces: • UN Location Code interface • Address interface • Facility interface Condition: At least sufficient attributes must be populated to identify a location.					C		C		C	C	C			
		Attribute	**Type**	**Description**												

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Attribute	Type	Description			Example	Reference data owner	UC1 Post Booking request	UC2 Request missing information to booking request	UC3 Post updated booking request	UC4 Reject booking request	UC5 Confirm booking	UC6 Request to update booking	UC7 Request amendments to booking	UC8 Confirm amendments to booking	UC9 Cancel booking	UC10 Decline Booking
		Location name	Text (100)	Name of the location.			R		R		R	R	R			
		UN location code	Text (5)	The UN Location code specifying where the place is located.			C		C		C	C	C			
		Facility Code	Text (6)	The code used for identifying the specific facility. This code does not include the UN location code			C		C		C	C	C			
		Facility Code List Provider	Text (4)	The provider used for identifying the facility code			C		C		C	C	C			
		Street	Text (100)	The name of the street of the party's address			C		C		C	C	C			
		Street number	Text (50)	The number of the street of the party's address			C		C		C	C	C			
		Floor	Text (50)	The floor of the party's street number			C		C		C	C	C			
		Post Code	Text (10)	The postal code of the party's address			C		C		C	C	C			
		City	Text (65)	The city name of the party's address			C		C		C	C	C			
		State/Region	Text (65)	The state/region of the party's address			C		C		C	C	C			
		Country	Text (75)	The country of the party's address			C		C		C	C	C			
Attributes related to an array of <Charges>																
Charge Type	Text (20)	Description of the charge type applied			*NA*	Carrier					R					
Currency Code	Text (3)	The currency for the amount of the charge, using a 3-character code (ISO 4217)			*EUR*	ISO					R					
Payment Term Code	Text (3)	An indicator of whether a charge is prepaid or collect			*PRE*	DCSA					R					
Currency Amount	Number	The monetary value of all freight and other service charges for a transport document, with a maximum of 2-digit decimals.			*5000*	ISO					R					

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Attribute	**Type**	**Description**		**Example**	**Reference data owner**	**UC1**	**UC2**	**UC3**	**UC4**	**UC5**	**UC6**	**UC7**	**UC8**	**UC9**	**UC10**
Unit Price	Number	The unit price of this charge item		*3456.7*	NA					R					
Quantity	Number	The number of units for this charge item		*42*	NA					R					
Attributes related to <Booking confirmation>															
Terms and Conditions	Text	Additional carrier terms and conditions aside from the general terms and conditions		*NA*	NA					O					
Carrier Clauses	Array	CONDITIONAL. Additional clauses for a specific shipment added by the carrier to the bill of lading, subject to local rules / guidelines or certain mandatory information required to be shared with the customer.								C					
		Attribute	**Type**	**Description**											
		Clause Content	Text	A clause for a specific shipment.						O					
Attributes related to an array of <Confirmed Equipment>															
Confirmed ISO Equipment Code	Text (4)	Confirmed Equipment(s)for this booking.		42G0	ISO					R					
Confirmed equipment units	Number	Number of confirmed equipment units.		*100*	Shipper					R					