ACKNOWLEDGMENT

Messaging User Guide (XML)

XML Messaging Guide for the system Acknowledgment of received messages in valenciaportpcs.net's Inland Transport Service.

CONTENTS

1 // Introduction

1.1 // Track changes

Version	Parts that Change	Change description
10th March 2011	--	Original version
12th May 2011	Chapter 3	Closing Time date/time and locator code for the Release and Acceptance Order have been added
	Chapters 4, 5 and 6	Examples adapted to incorporate existing changes
22nd June, 2011	Chapters 4 y 5	Correction of incorrectly formatted dates
24th January, 2012	Full document	Complete revision after go-live of new version of the service. Removal of references to Transition Phase.
4th March, 2013	3.1.2. Elements	New value RELEASE_ACCEPTANCE_ORDERS for the type of message for which a reply is given
19th February, 2014	3.1.2. Elements	Expiration date/time for the Release and Acceptance Order has been added
29th April, 2021	Chapter 3 3.1.2. Elements Chapters 4 y 5	Removal of the ClosingTimeValidDate field at all levels. New ValidFrom and IsValid fields

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

1.2 // Object

The object of this document is to define the user guide for the XML message corresponding to valenciaportpcs.net's Acknowledgment message.

This message is part of the **new** message flow which the valenciaportpcs.net portal has created to facilitate exchanges of documents concerned with the management of Valenciaport's Inland Transport system.

1.3 // Scope

The Acknowledgment message is used so that valenciaportpcs.net can confirm that a message has been received correctly or to report the existence of errors in the received message. In the framework of valenciaportpcs.net's Inland Transport service, the Acknowledgment message is **only sent by the system** in response to functional messages sent by the user.

1.4 // Contents

This guide is divided up into different chapters as shown below:

- Chapter 1 – Introduction

- Chapter 2 – General comments about message details, formats, lists used, identification of mandatory data

- Chapter 3 - General structure (XSD schema) and details about the Acknowledgment message elements.

- The last three chapters contain examples of complete Acknowledgment messages, one for each of the three types.

1.5 // Abbreviations and acronyms

Term	Meaning
AC	Acceptance Company
CC	Contracting Company, Contracting Party
CP	Container Provider
ISO	International Standards Organization
LO	Logistics Operator, Freight Forwarder
PAV	Port Authority of Valencia, or Valenciaport
PCS	valenciaportpcs.net
RC	Release Company
SA	Shipping Agent
SCAC	Standard Carrier Alpha Code
TA	Transport Agent
TO	Transport Operator
UN/LOCODE	United Nations Code for Trade and Transport Locations
UTD	Unified Transport Document
Code	Organization code in valenciaportpcs.net

1.6 // Related documents

The following documents describe the rest of the messages available in XML format for the Inland Transport Service of valenciaportpcs.net:

- *PCS12-TRANS007__Visión General Transporte Fase 2*
- *PCS11-TRANS003__Messaging User Guide DUT (XML).docx*
- *PCS11-TRANS004__Messaging User Guide Release and Acceptance Orders (XML).docx*
- *PCS12-TRANS004__Messaging User Guide Multiple Release and Acceptance Orders (XML).docx*
- *PCS11-TRANS005__Messaging User Guide Transport Assignment (XML).docx*
- *PCS11-TRANS006__Messaging User Guide Release and Acceptance Confirmation (XML).docx*

2 // Special considerations: format and content

2.1 // Mandatory nature, cardinalities, sizes and types

The specifications of the schema for the Acknowledgment XML message have been drawn up on the basis of the following premises and considerations:
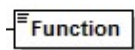
- The cardinalities of each element, the maximum sizes and the types of data have been established according to the operational needs of valenciaportpcs.net's users.

- Each element's cardinality is indicated as follows:
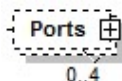
- The types of data and maximum sizes are shown in each element table (the different types used and their meaning is described in the following chapter):

- The mandatory data is marked:

    o As a schema: represented as a solid line

    o In the element table: marked with an "M"

Function	Message function Accepted values: • **ACCEPTED:** the message has been accepted • **ACCEPTED_WITH_REMARKS:** the message has been accepted but includes remarks • **REJECTED:** the message has been rejected	*M*	*an..35*

N.B.: details may not be mandatory according to the schema, but may subsequently be defined as mandatory (in a detailed validation in the remarks section) and may thus be marked in the element table.

- The optional data is marked:

    o As a schema: represented as a broken line

    o In the element table: marked with an "O"

Version	Message version Accepted values: • *1.0*	*O*	*an..5*

- The conditional data is marked:

    o In the element table: marked with a "C"

LoadingVesselDetails	Group of elements which contains details about	C	

	the vessel loading the containers.		

- o Details which appear according to whether certain rules are complied with or other message elements are included. Normally, they are associated with business rules which appear in the "comments" section of the data group in question.

- The data groups (elements composed in XML, which also contain an ordered sequence of elements) are marked in the element table with a "G" in the "Type" field:

LoadingVesselDetails	Group of elements which contains details about the vessel loading the containers.	*C*	G

- This guide includes the business rules that complement the message schema specification.

2.2 // Data formats and types

2.2.1. Character sets supported

The accepted character code format is UTF-8 or UTF-16, in line with Unicode characteristics and ISO-10646.

2.2.2. Alphanumeric type (<xs:string>)

- The XML alphanumeric type is represented in this guide as "an..NNN", when NNN indicates the maximum size accepted in the field.

2.2.3. Boolean type (<xs:boolean>)

- The XML boolean type is represented in this guide as "boolean".
- The accepted values for this type of data are "true" or "1" and "false" or "0".

2.2.4. Numeric types (<xs:positiveInteger> and <xs:decimal>)

- The XML numeric type is represented in this guide as "int" for positive whole numbers and "decimal" for real numbers. There is no whole data that accepts negative numbers.
- Decimals
  - o Decimal values should be represented using the dot ('.').
    - ❑ Example: 10455.12 or 45.8735
  - o Group separators should not be used.
    - ❑ Example: 10,455.125 is not valid.
  - o If the value is logical according to the data (for example, for temperatures), negative numbers can be indicated (by placing a minus sign '-' in front of them).

2.2.5. Types for date and date/time (<xs:date> and <xs:dateTime>)

- The XML date and time type is represented in this guide as "dateTime" and just the date as "date".
- Both the date and the date/time must follow the standard XML format:
  - o "YYYY-MM-DD" for the date
  - o "YYYY-MM-DDThh:mm:ss" for the date/time, where T is a fixed character separator for the date and time fields.

3 // Acknowledgment message structure and elements

The message should start with the mandatory heading specified in the XML syntaxis: <?xml version="1.0" encoding="UTF-16"?>, followed by the rest of the message. **The only accepted encoding is UTF (either UTF-8 or UTF-16)**.
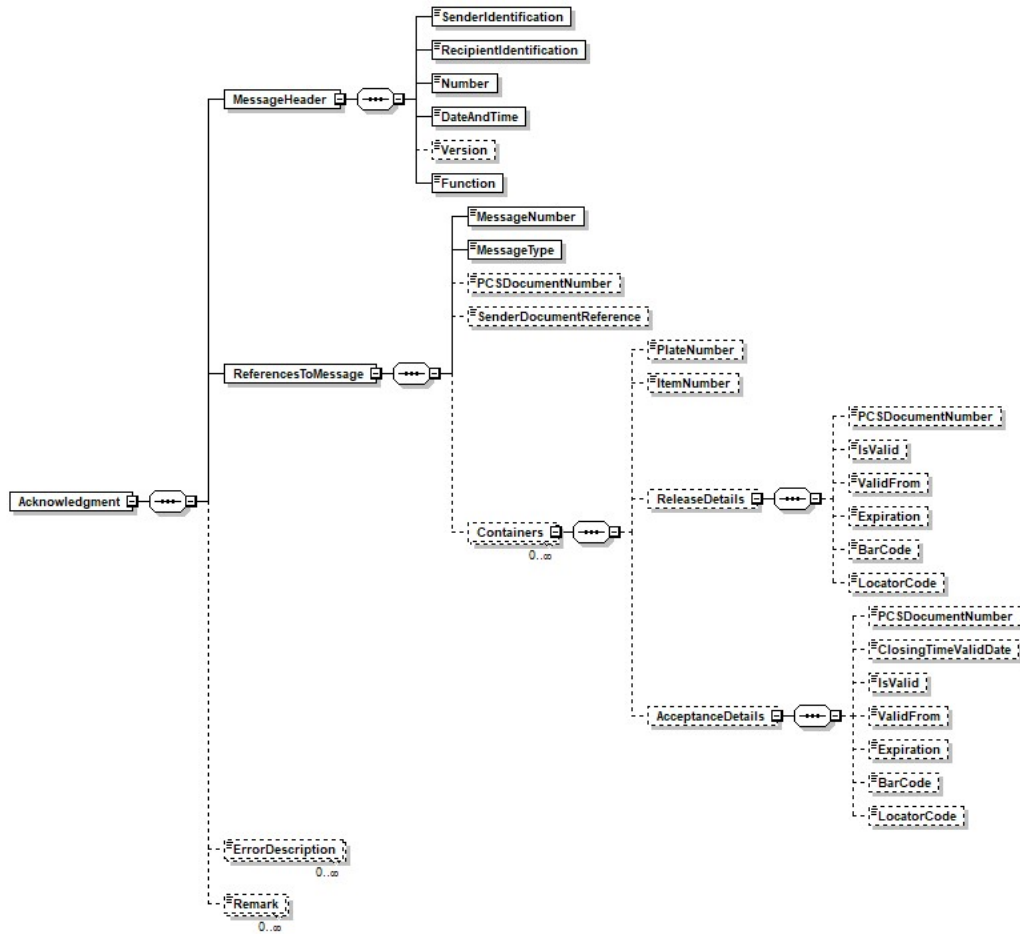
Generated by XMLSpy   www.altova.com

3.1.1. Comments

- The sender of the Ack message is always valenciaportpcs.net. Therefore, the *SenderIdentification* element will always contain the value **VALENCIAPORT**. The *RecipientIdentification* element will contain the code assigned by valenciaportpcs.net to the message recipient organisation, which will match the sender of the message which is being replied to.

- The Acknowledgment message may either be an accepted message, a message accepted with remarks, or a rejected message.

    o The accepted messages will not contain errors (*ErrorDescription*), although an accepted message with remarks will contain comments by valenciaportpcs.net (*Remark*) to point out certain aspects which have been observed in the accepted message details.

    o The rejected messages will contain the reasons for the rejection in one or more sections of the *ErrorDescription* field.

- The *ReferencesToMessage* group will include the references to the message for which a reply is given, the type of message, and (optionally) additional references to the document related to the message sent. In the case of message responses to complete UTD messages (Transport Instructions, Release and Acceptance Orders), the *Containers* element group includes identification references for each container, as well as its Release and Acceptance Orders.

3.1.2. Elements

Name	Purpose	M/O	Type
MessageHeader	Group of elements which contains the message header	M	G
ReferencesToMessage	Group of elements which contains details about the message for which a reply is given	M	G
ErrorDescription	Free text to include the errors found	O	an..512
Remark	Free text to include remarks about the message	O	an..512
MessageHeader			
SenderIdentification	Code which identifies the message sender The value of this element will always be **VALENCIAPORT**	M	an..12
RecipientIdentification	Code which identifies the message recipient	M	an..12
Number	Unique reference assigned by the sender to identify the message. As this is always generated by valenciaportpcs.net, the reference structure will have the following pattern: **VPRTACCCCCCCCC** Where: • **VPRT**: an4. valenciaportpcs.net identification code • **A**: an1. Last digit of the current year. • **CCCCCCCCC**: an..9. Item number which completes the unique identifier.	M	an..14
DateAndTime	Date and time the message is sent	M	dateTime
Version	Message version Accepted values: • **1.0**	O	an..5
Function	Message function Accepted values: • **ACCEPTED:** the message has been accepted • **ACCEPTED_WITH_REMARKS:** the message has been accepted but includes remarks • **REJECTED:** the message has been rejected	M	an..35
ReferencesToMessage			
MessageNumber	Number of the message for which a reply is given	M	an..14
MessageType	Type of message for which a reply is given Accepted values: • **COMPLETE_DUT:** (Transport Instructions, Release and Acceptance Orders) • **TRANSPORT_INSTRUCTIONS** • **RELEASE_ORDER**: *(for the new version)* • **ACCEPTANCE_ORDER**: *(for the new*	M	an..35

	version) • **RELEASE_ACCEPTANCE_ORDERS**: *(for the new version)* • **INLAND_TRANSPORT_DETAILS**: transport assignment • **RELEASE_CONFIRMATION** • **ACCEPTANCE_CONFIRMATION**		
PCSDocumentNumber	Document number related to the sent message	O	an..35
SenderDocumentReference	Sender's reference to the document related to the sent message	O	an..35
~~**ClosingTimeValidDate**~~	~~Value which saves the valid date assigned to the document, according to the Port of Valencia's inland Closing Time procedure.~~	~~O~~	~~dateTime~~
Containers	Group of elements which contains references about the release and acceptance orders for each container included in a complete UTD for which a reply is given (This is only used when a reply is given to a complete UTD)	O	G
ReferencesToMessage\Containers			
PlateNumber	Container plate number	O	an..11
ItemNumber	Item number	O	an..10
ReleaseDetails	Group of elements which contains references to the Release Order for this container	O	G
AcceptanceDetails	Group of elements which contains references to the Acceptance Order for this container	O	G
ReferencesToMessage\Containers\ReleaseDetails			
PCSDocumentNumber	Document number of the Release Order associated with this container	O	an..35
~~**ClosingTimeValidDate**~~	~~Value which saves the valid date assigned to the Release Order, according to the Port of Valencia's inland Closing Time procedure.~~	~~O~~	~~dateTime~~
ValidFrom	Release start date (Release should not take place before this date and time)	O	dateTime
IsValid	Indicates whether the command is valid, i.e. whether it could be sent to the terminal/depot.	O	boolean
Expiration	Release expiration date	O	dateTime
BarCode	Bar code of the Release Order associated with this container	O	an..20
LocatorCode	Locator code of the Release Order, an alternative to the bar code	O	an..6
ReferencesToMessage\Containers\AcceptanceDetails			
PCSDocumentNumber	Document number of the Acceptance Order associated with this container	O	an..35
~~**ClosingTimeValidDate**~~	~~Value which saves the valid date assigned to the Acceptance Order, according to the Port of Valencia's inland Closing Time procedure.~~	~~O~~	~~dateTime~~
ValidFrom	Acceptance start date (Acceptance should not take place before this date and time)	O	dateTime
IsValid	Indicates whether the command is valid, i.e. whether it could be sent to the terminal/depot.	O	boolean
Expiration	Acceptance expiration date	O	dateTime
BarCode	Bar code of the Acceptance Order associated with this container	O	an..20
LocatorCode	Locator code of the Acceptance Order, an	O	an..6

	alternative to the bar code		

4 // XML example of an Acknowledgment accepted message

The following example aims to serve as a **reference** for sending or receiving an Acknowledgment message. Logically, the organization codes are not valid codes. Imaginary codes have been used for demonstration purposes.

```
<?xml version="1.0" encoding="UTF-8"?>
<Acknowledgment>
    <MessageHeader>
        <SenderIdentification>VALENCIAPORT</SenderIdentification>
        <RecipientIdentification>USER</RecipientIdentification>
        <Number>VPRT1123456789</Number>
        <DateAndTime>2011-01-17T09:30:47Z</DateAndTime>
        <Function>ACCEPTED</Function>
    </MessageHeader>
    <ReferencesToMessage>
        <MessageNumber>USER0123456789</MessageNumber>
        <MessageType>COMPLETE_DUT</MessageType>
        <PCSDocumentNumber>USER10122512345670</PCSDocumentNumber>
        <SenderDocumentReference>USERRef </SenderDocumentReference>
        <ClosingTimeValidDate>2010-12-25T07:45:00</ClosingTimeValidDate>
        <Containers>
            <ItemNumber>1</ItemNumber>
            <ReleaseDetails>
                <PCSDocumentNumber>USER10122512345671</PCSDocumentNumber>
                <ClosingTimeValidDate>2010-12-25T07:45:00</ClosingTimeValidDate>
                <ValidFrom>2010-12-27T07:30:47</ValidFrom>
                <IsValid>true</IsValid>
                <Expiration>2010-12-28T07:30:47</Expiration>
                <BarCode>12345678912345678912</BarCode>
                <LocatorCode>Rel loc</LocatorCode>
            </ReleaseDetails>
            <AcceptanceDetails>
                <PCSDocumentNumber>USER10122512345672</PCSDocumentNumber>
                <ClosingTimeValidDate>2010-12-25T07:45:00</ClosingTimeValidDate>
                <ValidFrom>2010-12-28T07:30:47</ValidFrom>
                <IsValid>true</IsValid>
                <Expiration>2010-12-29T07:30:47</Expiration>
                <BarCode>12345678912345678914</BarCode>
                <LocatorCode>Rel loc</LocatorCode>
            </AcceptanceDetails>
        </Containers>
        <Containers>
            <ItemNumber>2</ItemNumber>
            <ReleaseDetails>
                <PCSDocumentNumber>USER10122512345673</PCSDocumentNumber>
                <ClosingTimeValidDate>2010-12-25T07:45:00</ClosingTimeValidDate>
                <ValidFrom>2010-12-27T07:30:47</ValidFrom>
                <IsValid>true</IsValid>
                <Expiration>2010-12-28T07:30:47</Expiration>
                <BarCode>12345678912345678916</BarCode>
                <LocatorCode>Rel loc</LocatorCode>
            </ReleaseDetails>
            <AcceptanceDetails>
                <PCSDocumentNumber>USER10122512345674</PCSDocumentNumber>
                <ClosingTimeValidDate>2010-12-25T07:45:00</ClosingTimeValidDate>
                <ValidFrom>2010-12-28T07:30:47</ValidFrom>
                <IsValid>true</IsValid>
                <Expiration>2010-12-29T07:30:47</Expiration>
                <BarCode>12345678912345678918</BarCode>
```

```
            <LocatorCode>Rel loc</LocatorCode>
        </AcceptanceDetails>
      </Containers>
    </ReferencesToMessage>
</Acknowledgment>
```

5 // XML example of an Acknowledgment accepted message with remarks

The following example aims to serve as a **reference** for sending or receiving an Acknowledgment message. Logically, the organization codes are not valid codes. Imaginary codes have been used for demonstration purposes.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<Acknowledgment>
    <MessageHeader>
        <SenderIdentification>VALENCIAPORT</SenderIdentification>
        <RecipientIdentification>USER</RecipientIdentification>
        <Number>VPRT1123456789</Number>
        <DateAndTime>2011-01-17T09:30:47Z</DateAndTime>
        <Function>ACCEPTED_WITH_REMARKS</Function>
    </MessageHeader>
    <ReferencesToMessage>
        <MessageNumber>USER0123456789</MessageNumber>
        <MessageType>COMPLETE_DUT</MessageType>
        <PCSDocumentNumber>USER10122512345670</PCSDocumentNumber>
        <SenderDocumentReference>USERRef </SenderDocumentReference>
        <ClosingTimeValidDate>2010-12-25T07:45:00</ClosingTimeValidDate>
        <Containers>
            <ItemNumber>1</ItemNumber>
            <ReleaseDetails>
                <PCSDocumentNumber>USER10122512345671</PCSDocumentNumber>
                <ClosingTimeValidDate>2010-12-25T07:45:00</ClosingTimeValidDate>
                <ValidFrom>2010-12-28T07:30:47</ValidFrom>
                <IsValid>true</IsValid>
                <Expiration>2010-12-29T07:30:47</Expiration>
                <BarCode>12345678912345678912</BarCode>
                <LocatorCode>Rel loc</LocatorCode>
            </ReleaseDetails>
            <AcceptanceDetails>
                <PCSDocumentNumber>USER10122512345672</PCSDocumentNumber>
                <ClosingTimeValidDate>2010-12-25T07:45:00</ClosingTimeValidDate>
                <ValidFrom>2010-12-28T07:30:47</ValidFrom>
                <IsValid>true</IsValid>
                <Expiration>2010-12-29T07:30:47</Expiration>
                <BarCode>12345678912345678914</BarCode>
                <LocatorCode>Rel loc</LocatorCode>
            </AcceptanceDetails>
        </Containers>
    </ReferencesToMessage>
    <Remark>Information about reefer container is incoherent: Indicated that it is to be connected on truck but not in Terminal</Remark>
</Acknowledgment>
```

6 // XML example of an Acknowledgment rejected message

The following example aims to serve as a **reference** for sending or receiving an Acknowledgment message. Logically, the organization codes are not valid codes. Imaginary codes have been used for demonstration purposes.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<Acknowledgment>
    <MessageHeader>
        <SenderIdentification>VALENCIAPORT</SenderIdentification>
        <RecipientIdentification>USER</RecipientIdentification>
        <Number>VPRT1123456789</Number>
        <DateAndTime>2011-01-17T09:30:47Z</DateAndTime>
        <Function>REJECTED</Function>
    </MessageHeader>
    <ReferencesToMessage>
        <MessageNumber>USER0123456789</MessageNumber>
        <MessageType>COMPLETE_DUT</MessageType>
    </ReferencesToMessage>
    <ErrorDescription>The Contracting Party must be indicated</ErrorDescription>
    <ErrorDescription>The acceptance berth request number for the full container must be
indicated</ErrorDescription>
</Acknowledgment>
```

valenciaport

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