PIDX Bill of Lading Implementation Guidelines

Introduction

Business Process Name	Bill of Lading Implementation Guidelines
Identifier	Bill of Lading Create.xsd Bill of Lading Response.xsd BOL Processing Requirements.ppt LoadingDeliveryReceipt.xsd
Actors	Any company that wants to use the PIDX BOL documents and wants clarity on the business processes.
Scenario	→ Documentation for clarity on business processes for Bill of Lading. → Industry consensus for the values in Bill of Lading.
Recommended Best Practices	Negative values cannot be used for product quantities. Treat all quantities in PIDX LDR messages as measurements or results of quantity conversion calculations, i.e., the sign of the value does **not** change as a function of the Type of the posting. Only the value of the field *PostingType* describes the Type of the posting (credit/debit).

Usage Guidelines

Product quantities reported in the PIDX LDR message type (LoadDeliveryReceipt) are established by measurements or are the result of quantity conversion calculations. These figures are reported in the "Measurements" section of PIDX-LDR message. Some terminal systems also report the number of the Measurement Ticket as proof.

Product quantities established because of an operation (Load, Delivery or Receipt) cannot be negative. The sign of the value does not change as a function of the Direction or the Type of the posting.

Since PIDXv5, the posting scenarios are controlled by two fields of the standard definition for the LDR (Load-Delivery-Receipt) message type:

- ActionCode to describe the nature of the operation and the direction of product flow (e.g. 'Loading', 'Delivery',…)
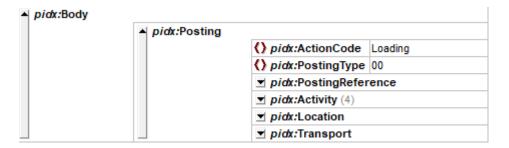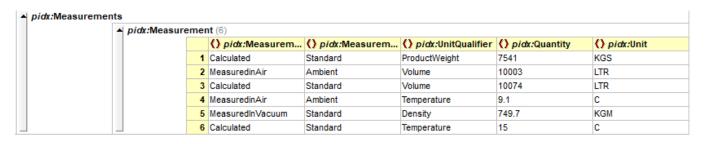
- PostingType to describe the type of posting ('Normal', 'Reversal', 'Correction', 'Return')

"00" – Normal posting, i.e., standard posting for operation
"01" – Reversal posting, i.e., reversal of a posting of type "00" with reference to the same BOL
"02" – Correction posting, i.e,. a new corrected posting (rebill) with or without reference to the original BOL
"03" – Return posting, i.e,. physical return of product (e.g., due to contamination)

The sign of the quantity values reported in the "Measurements" section remains unchanged and can never be negative.

Example Normal Posting for a loading operation: ActionCode 'Loading', PostingType '00'

Positive Measurement figures:

		() pidx:Measurem...	() pidx:Measurem...	() pidx:UnitQualifier	() pidx:Quantity	() pidx:Unit
1	Calculated	Standard	ProductWeight	7541	KGS
2	MeasuredinAir	Ambient	Volume	10003	LTR
3	Calculated	Standard	Volume	10074	LTR
4	MeasuredinAir	Ambient	Temperature	9.1	C
5	MeasuredInVacuum	Standard	Density	749.7	KGM
6	Calculated	Standard	Temperature	15	C

Example Reversal Posting for a loading operation: ActionCode 'Loading', PostingType '01'

	pidx:annotation	PIDX Beladedaten, erstellt von VERA-V3 / VTA
	pidx:Header	

pidx:Body

pidx:Posting

	pidx:ActionCode	Loading
	pidx:PostingType	01
	pidx:PostingReference	
	pidx:Activity (4)	
	pidx:Location	
	pidx:Transport	

Positive Measurement figures

pidx:MeasurementInformation

pidx:Measurements

pidx:Measurement (6)

	pidx:Measurem...	pidx:Measurem...	pidx:UnitQualifier	pidx:Quantity	pidx:Unit
1	Calculated	Standard	ProductWeight	25966	KGS
2	MeasuredinAir	Ambient	Volume	31256	LTR
3	Calculated	Standard	Volume	30971	LTR
4	MeasuredinAir	Ambient	Temperature	25.7	C
5	MeasuredInVacuum	Standard	Density	839.5	KGM
6	Calculated	Standard	Temperature	15	C